



# Full wwPDB NMR Structure Validation Report ⓘ

Jun 15, 2024 – 11:37 AM EDT

PDB ID : 2JU4  
BMRB ID : 15430  
Title : NMR structure of the gamma subunit of cGMP phosphodiesterase  
Authors : Song, J.; Guo, L.W.; Ruoho, A.E.; Markley, J.L.; Center for Eukaryotic Structural Genomics (CESG)  
Deposited on : 2007-08-14

This is a Full wwPDB NMR Structure Validation Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<https://www.wwpdb.org/validation/2017/NMRValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467  
Mogul : 2022.3.0, CSD as543be (2022)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
wwPDB-RCI : v\_1n\_11\_5\_13\_A (Berjanski et al., 2005)  
PANAV : Wang et al. (2010)  
wwPDB-ShiftChecker : v1.2  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.37.1

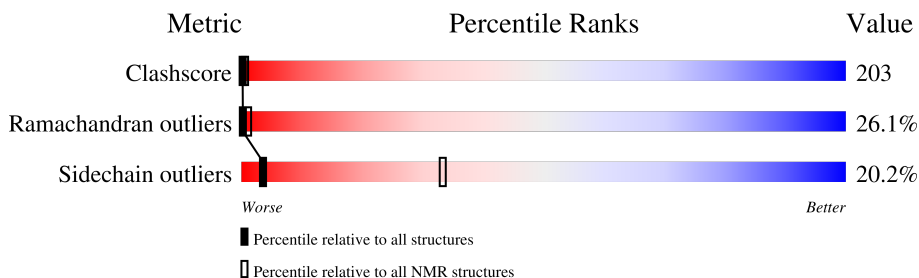
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 72%.

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



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

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

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 1   | A     | 87     |                  |

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA and RNA chains that are outliers for geometric criteria:

| Mol | Chain | Compound | Res | Total models with violations |          |
|-----|-------|----------|-----|------------------------------|----------|
|     |       |          |     | Chirality                    | Geometry |
| 2   | A     | RCY      | 110 | 47                           | -        |
| 2   | A     | RCY      | 121 | 45                           | -        |
| 2   | A     | RCY      | 130 | 61                           | 1        |
| 2   | A     | RCY      | 138 | 52                           | -        |
| 2   | A     | RCY      | 150 | 53                           | -        |
| 2   | A     | RCY      | 160 | 70                           | -        |
| 2   | A     | RCY      | 168 | 69                           | -        |

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| Mol | Chain | Compound | Res | Total models with violations |          |
|-----|-------|----------|-----|------------------------------|----------|
|     |       |          |     | Chirality                    | Geometry |
| 2   | A     | RCY      | 173 | 50                           | -        |
| 2   | A     | RCY      | 176 | 56                           | -        |
| 2   | A     | RCY      | 187 | 57                           | -        |

## 2 Ensemble composition and analysis

This entry contains 100 models. Model 6 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *fewest violations*.

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

| Well-defined (core) protein residues |                       |                   |              |
|--------------------------------------|-----------------------|-------------------|--------------|
| Well-defined core                    | Residue range (total) | Backbone RMSD (Å) | Medoid model |
| 1                                    | A:59-A:78 (20)        | 3.41              | 6            |

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

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

The models can be grouped into 6 clusters and 2 single-model clusters were found.

| Cluster number        | Models   |
|-----------------------|--|
| 1                     | 11, 12, 16, 17, 19, 20, 21, 22, 26, 27, 28, 29, 32, 33, 36, 37, 38, 39, 40, 41, 44, 45, 48, 49, 52, 53, 56, 58, 67, 70, 71, 74, 82, 83, 84, 86, 88, 89, 91, 92, 93, 94, 96, 97, 99 |
| 2                     | 1, 2, 3, 7, 8, 10, 13, 14, 23, 24, 25, 30, 31, 35, 42, 43, 46, 50, 55, 57, 59, 60, 61, 62, 64, 65, 66, 72, 73, 75, 79, 80, 87, 98, 100   |
| 3                     | 4, 5, 6, 15, 18, 47, 54, 69, 77, 78, 85  |
| 4                     | 51, 63, 68   |
| 5                     | 34, 76   |
| 6                     | 9, 95  |
| Single-model clusters | 81; 90   |

### 3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 1478 atoms, of which 659 are hydrogens and 0 are deuteriums.

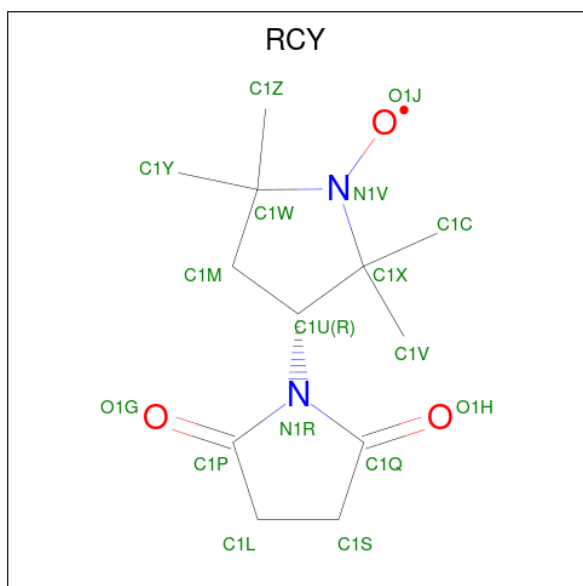
- Molecule 1 is a protein called Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma.

| Mol | Chain | Residues | Atoms |     |     |     |     | Trace |   |
|-----|-------|----------|-------|-----|-----|-----|-----|-------|---|
|     |       |          | Total | C   | H   | N   | O   |       | S |
| 1   | A     | 87       | 1288  | 395 | 639 | 122 | 119 | 13    | 0 |

There are 9 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment             | Reference  |
|-------|---------|----------|--------|---------------------|------------|
| A     | 10      | CYS      | PHE    | engineered mutation | UNP P04972 |
| A     | 21      | CYS      | VAL    | engineered mutation | UNP P04972 |
| A     | 30      | CYS      | PHE    | engineered mutation | UNP P04972 |
| A     | 38      | CYS      | PHE    | engineered mutation | UNP P04972 |
| A     | 50      | CYS      | PHE    | engineered mutation | UNP P04972 |
| A     | 60      | CYS      | LEU    | engineered mutation | UNP P04972 |
| A     | 73      | CYS      | PHE    | engineered mutation | UNP P04972 |
| A     | 76      | CYS      | LEU    | engineered mutation | UNP P04972 |
| A     | 87      | CYS      | ILE    | engineered mutation | UNP P04972 |

- Molecule 2 is (3'R)-1'-oxyl-2',2',5',5'-tetramethyl-1,3'-bipyrrolidine-2,5-dione (three-letter code: RCY) (formula:  $C_{12}H_{19}N_2O_3$ ).



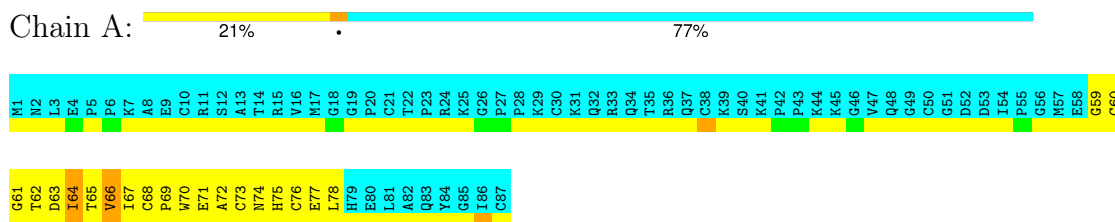
| Mol | Chain | Residues | Atoms |    |   |   |   |
|-----|-------|----------|-------|----|---|---|---|
| 2   | A     | 1        | Total | C  | H | N | O |
|     |       |          | 19    | 12 | 2 | 2 | 3 |
| 2   | A     | 1        | Total | C  | H | N | O |
|     |       |          | 19    | 12 | 2 | 2 | 3 |
| 2   | A     | 1        | Total | C  | H | N | O |
|     |       |          | 19    | 12 | 2 | 2 | 3 |
| 2   | A     | 1        | Total | C  | H | N | O |
|     |       |          | 19    | 12 | 2 | 2 | 3 |
| 2   | A     | 1        | Total | C  | H | N | O |
|     |       |          | 19    | 12 | 2 | 2 | 3 |
| 2   | A     | 1        | Total | C  | H | N | O |
|     |       |          | 19    | 12 | 2 | 2 | 3 |
| 2   | A     | 1        | Total | C  | H | N | O |
|     |       |          | 19    | 12 | 2 | 2 | 3 |
| 2   | A     | 1        | Total | C  | H | N | O |
|     |       |          | 19    | 12 | 2 | 2 | 3 |
| 2   | A     | 1        | Total | C  | H | N | O |
|     |       |          | 19    | 12 | 2 | 2 | 3 |

## 4 Residue-property plots [i](#)

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

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

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

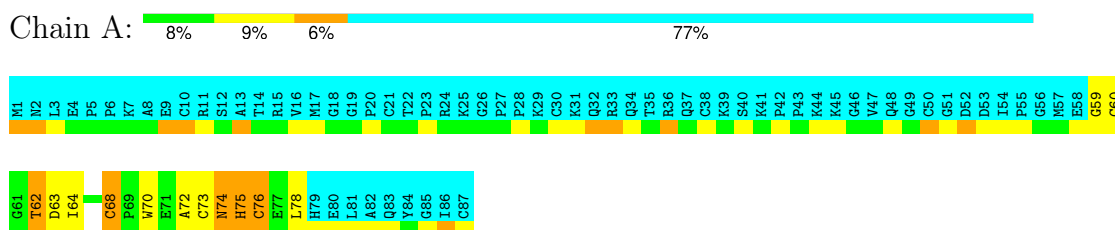


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

#### 4.2.1 Score per residue for model 1

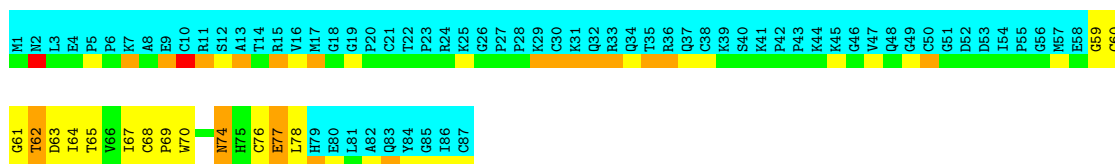
- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



#### 4.2.2 Score per residue for model 2

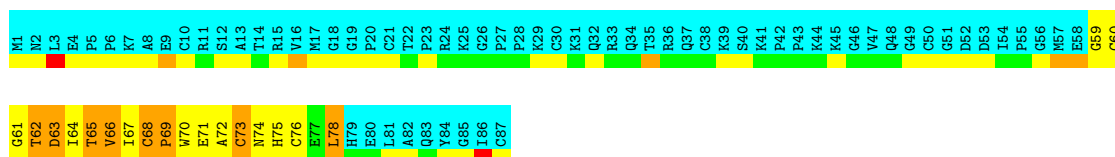
- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma





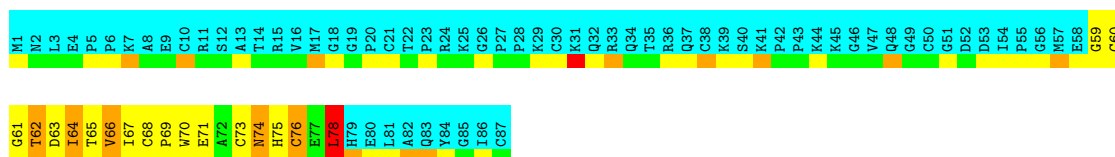
### 4.2.3 Score per residue for model 3

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



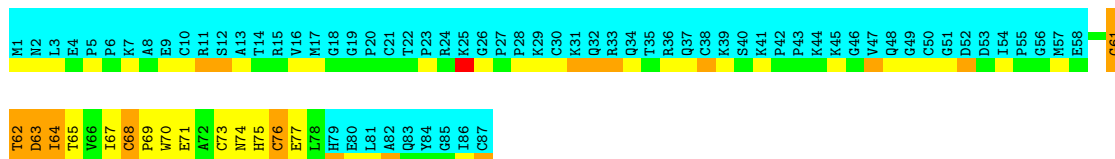
### 4.2.4 Score per residue for model 4

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



### 4.2.5 Score per residue for model 5

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

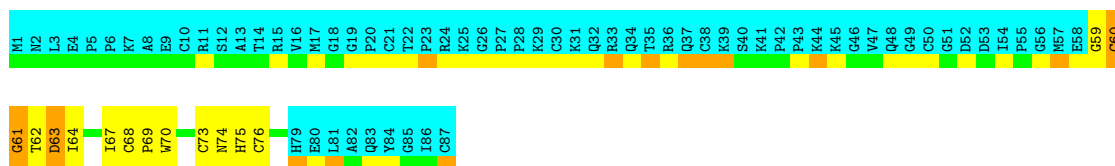


### 4.2.6 Score per residue for model 6 (medoid)

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



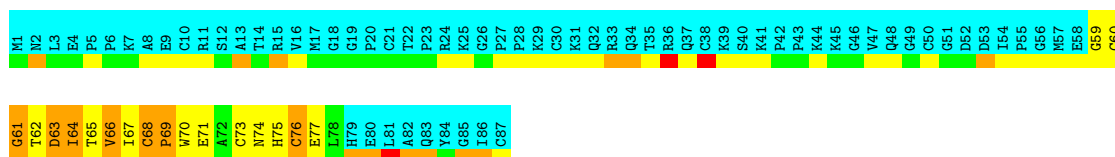




#### 4.2.7 Score per residue for model 7

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

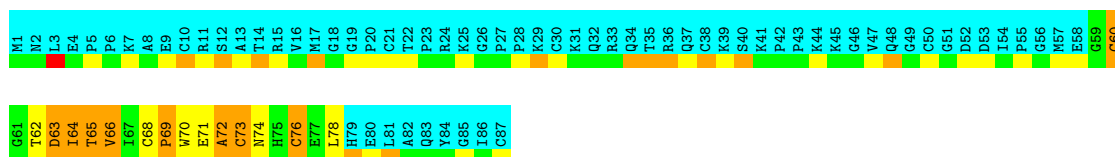
Chain A: 13% 8% 77%



#### 4.2.8 Score per residue for model 8

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

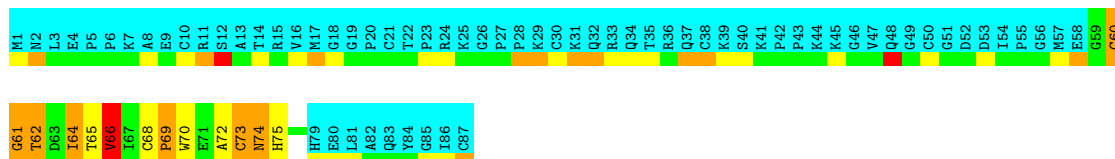
Chain A: 6% 7% 10% 77%



#### 4.2.9 Score per residue for model 9

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

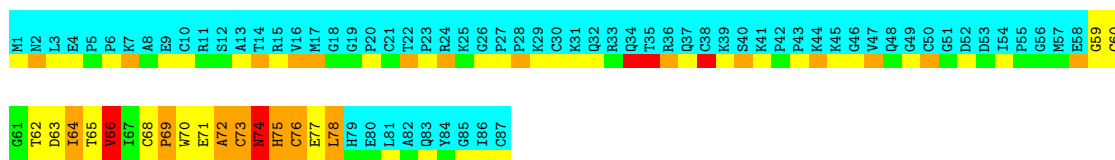
Chain A: 8% 6% 8% 77%



#### 4.2.10 Score per residue for model 10

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

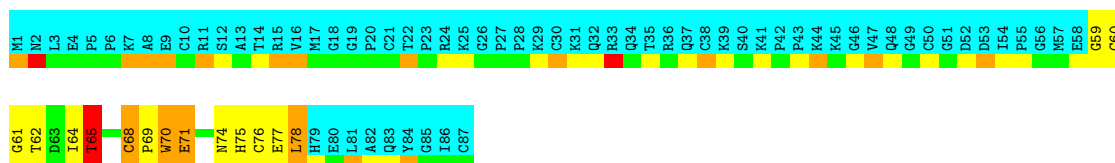
Chain A: 10% 8% 77%



#### 4.2.11 Score per residue for model 11

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

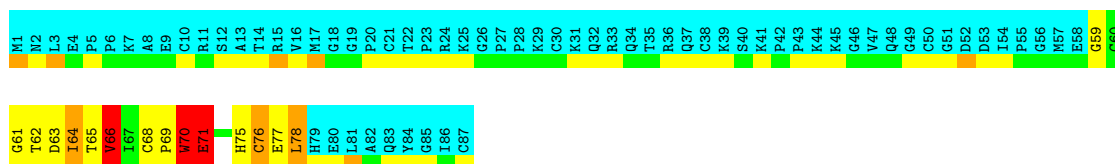
Chain A: 6% 11% 5% • 77%



#### 4.2.12 Score per residue for model 12

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

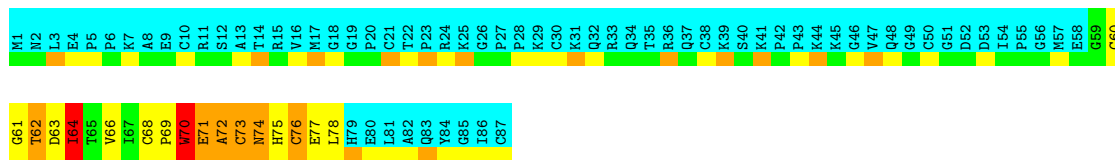
Chain A: 6% 10% • • 77%



#### 4.2.13 Score per residue for model 13

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

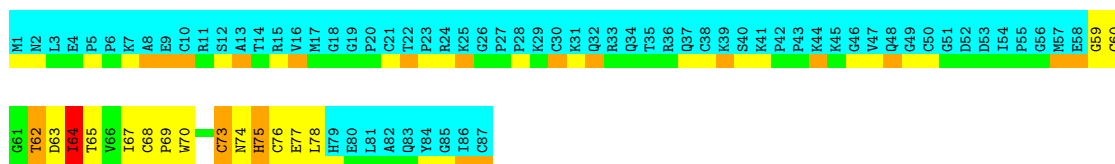
Chain A: • 10% 7% • 77%



#### 4.2.14 Score per residue for model 14

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

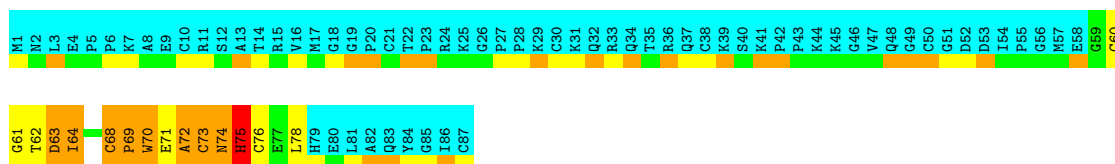
Chain A: 5% 14% • • 77%



#### 4.2.15 Score per residue for model 15

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

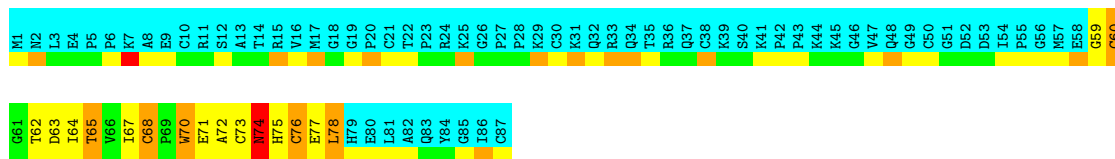
Chain A: 6% 7% 9% 77%



#### 4.2.16 Score per residue for model 16

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

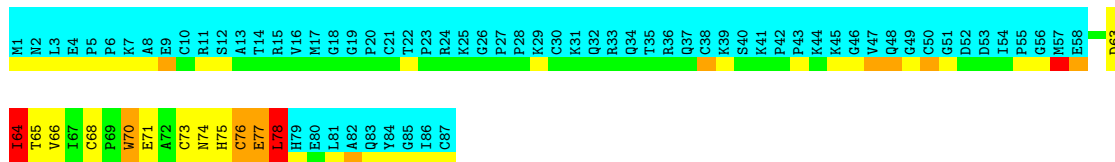
Chain A: 11% 7% 77%



#### 4.2.17 Score per residue for model 17

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

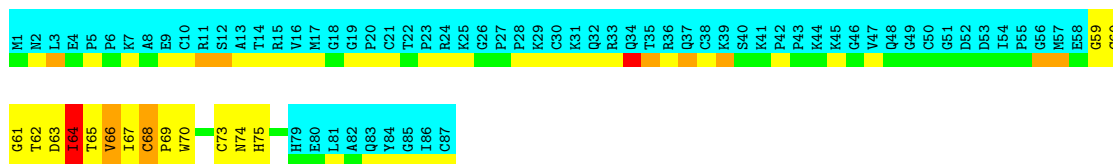
Chain A: 8% 9% 77%



#### 4.2.18 Score per residue for model 18

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

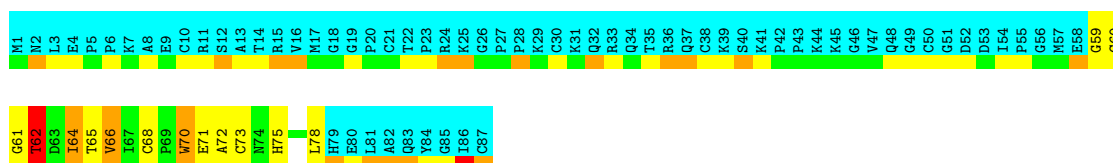
Chain A:  6% 14% .. 77%



#### 4.2.19 Score per residue for model 19

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

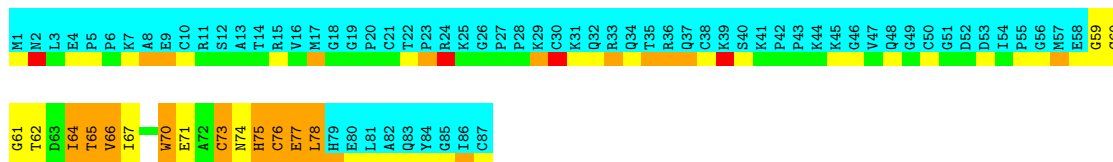
Chain A:  7% 11% .. 77%



#### 4.2.20 Score per residue for model 20

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

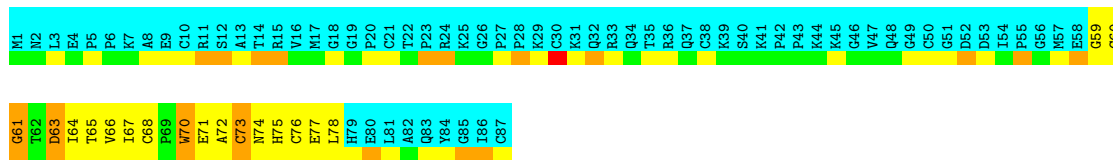
Chain A:  5% 8% 10% 77%



#### 4.2.21 Score per residue for model 21

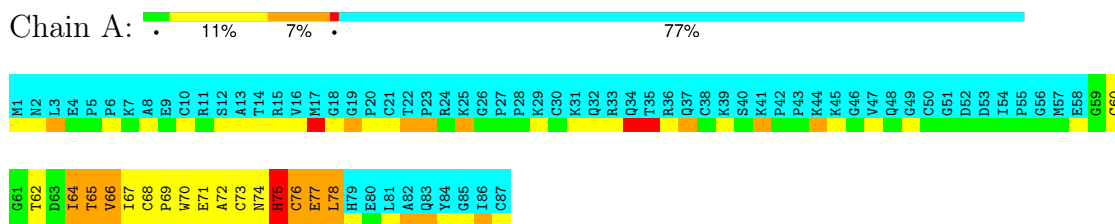
- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

Chain A:  . 16% 5% 77%



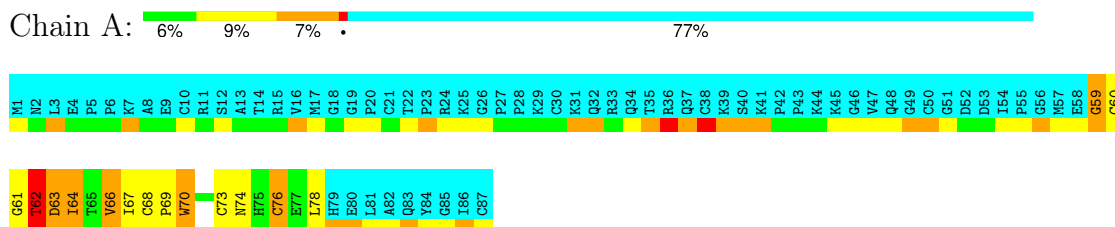
#### 4.2.22 Score per residue for model 22

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



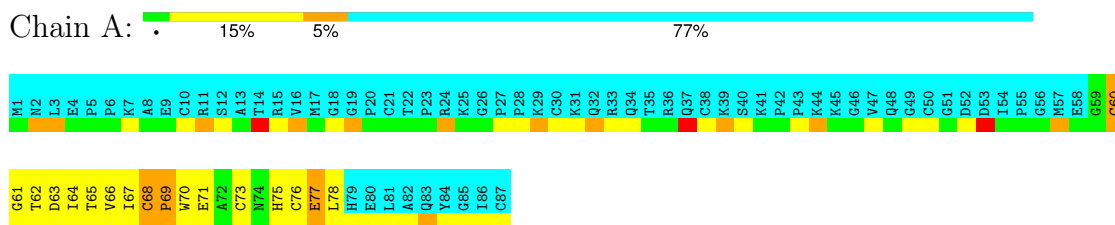
#### 4.2.23 Score per residue for model 23

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



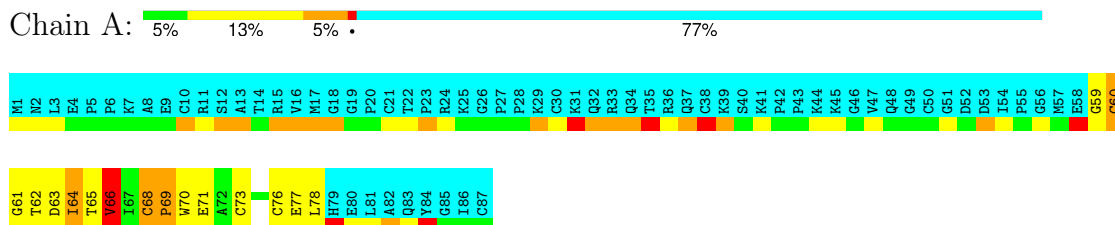
#### 4.2.24 Score per residue for model 24

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



#### 4.2.25 Score per residue for model 25

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



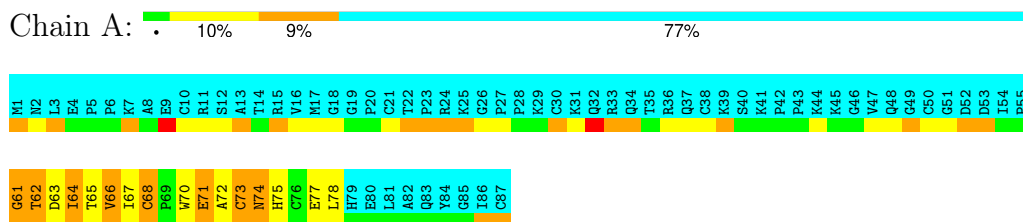
#### 4.2.26 Score per residue for model 26

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



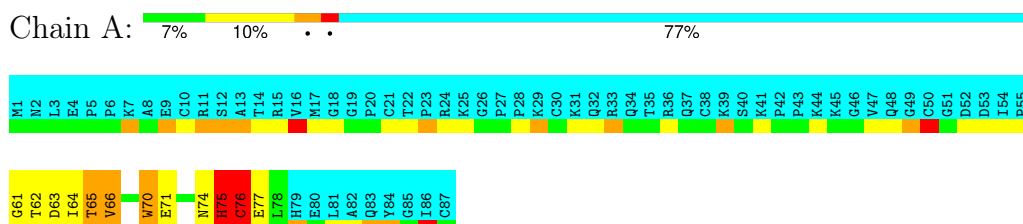
#### 4.2.27 Score per residue for model 27

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



#### 4.2.28 Score per residue for model 28

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



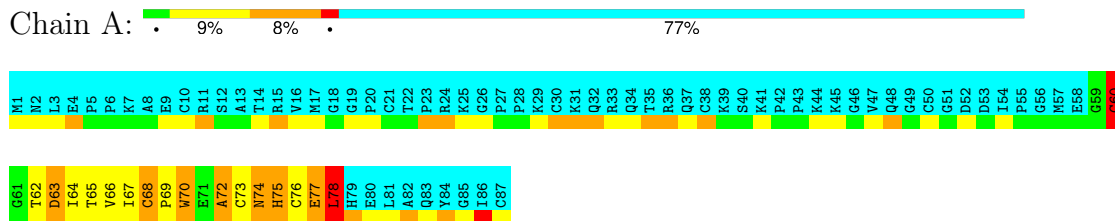
#### 4.2.29 Score per residue for model 29

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



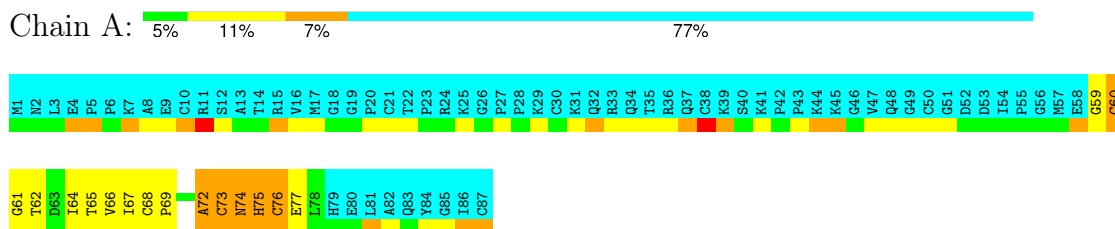
#### 4.2.30 Score per residue for model 30

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



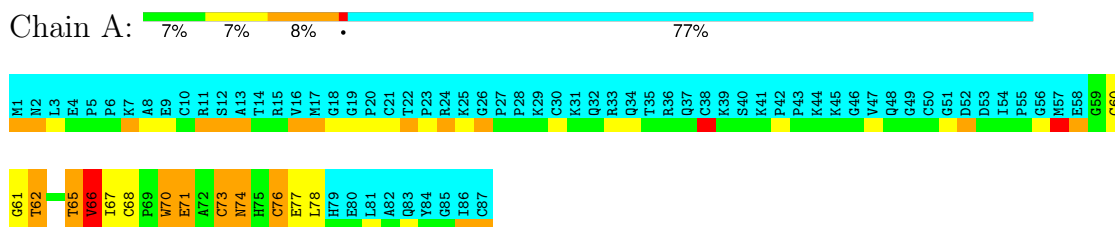
#### 4.2.31 Score per residue for model 31

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



#### 4.2.32 Score per residue for model 32

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



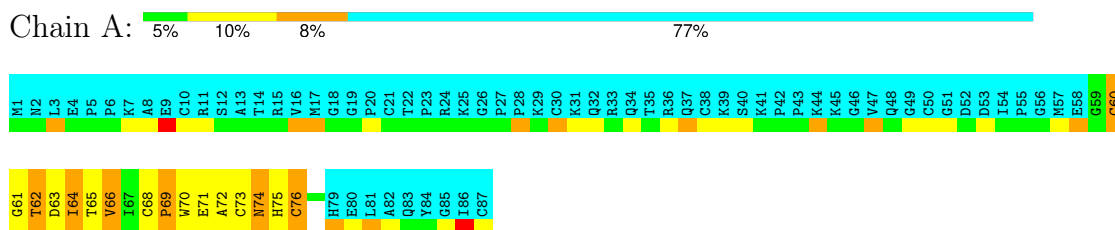
#### 4.2.33 Score per residue for model 33

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



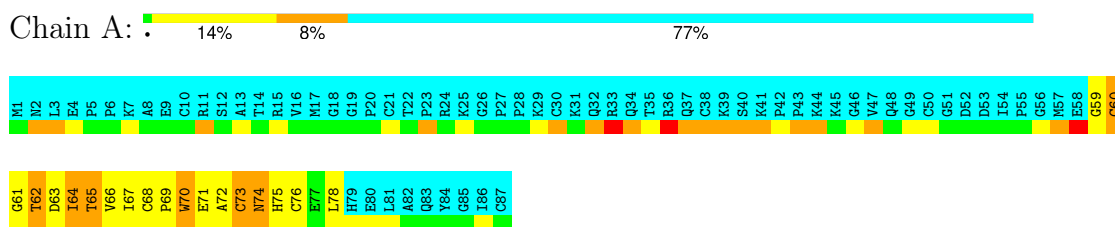
#### 4.2.34 Score per residue for model 34

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



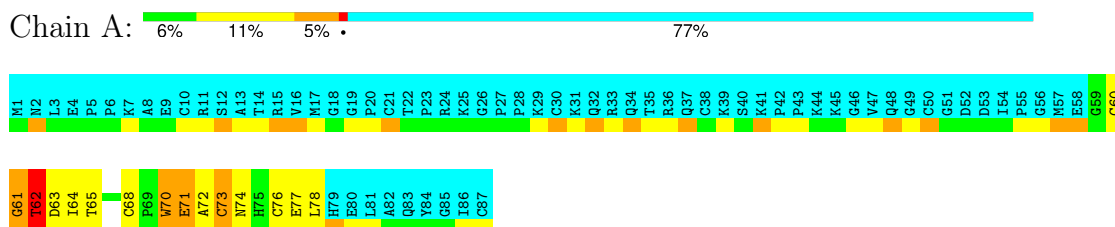
#### 4.2.35 Score per residue for model 35

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



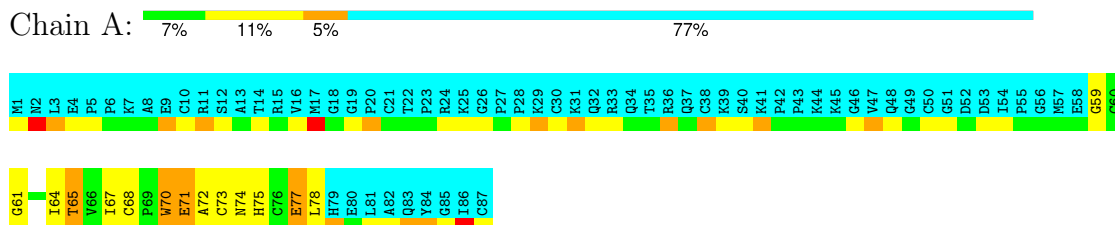
#### 4.2.36 Score per residue for model 36

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



#### 4.2.37 Score per residue for model 37

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

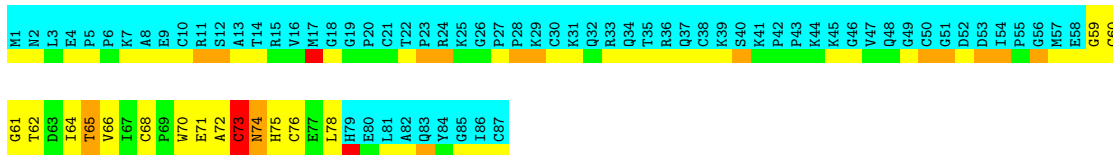




#### 4.2.38 Score per residue for model 38

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

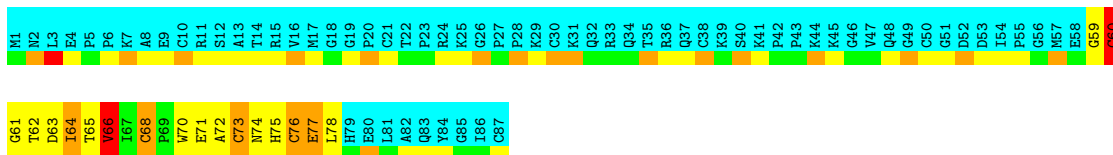
Chain A: 5% 15% .. 77%



#### 4.2.39 Score per residue for model 39

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

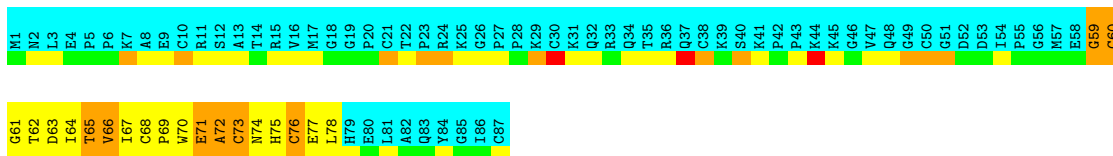
Chain A: . 13% 6% . 77%



#### 4.2.40 Score per residue for model 40

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

Chain A: 14% 9% 77%



#### 4.2.41 Score per residue for model 41

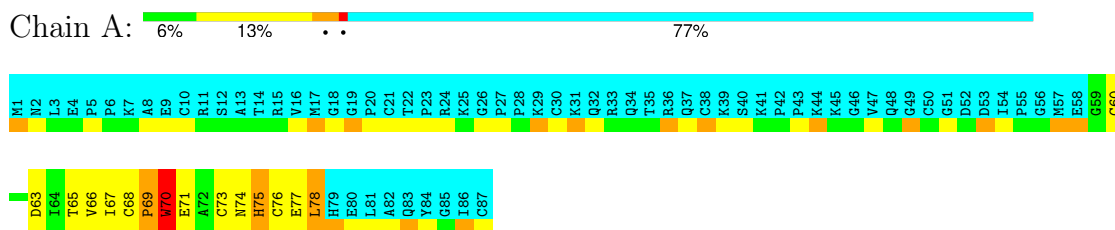
- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma

Chain A: . 13% 7% 77%



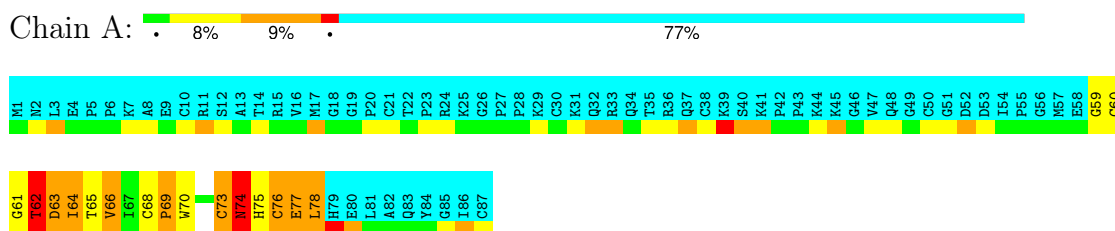
#### 4.2.42 Score per residue for model 42

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



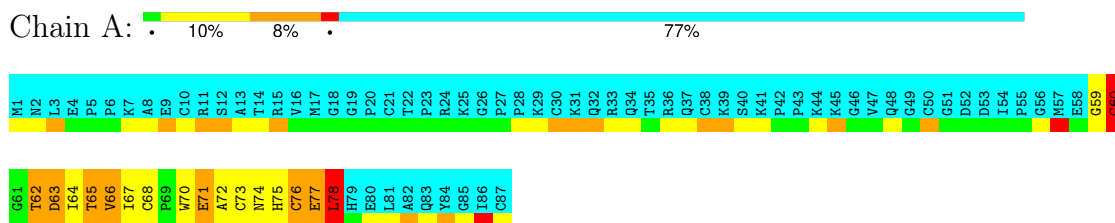
#### 4.2.43 Score per residue for model 43

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



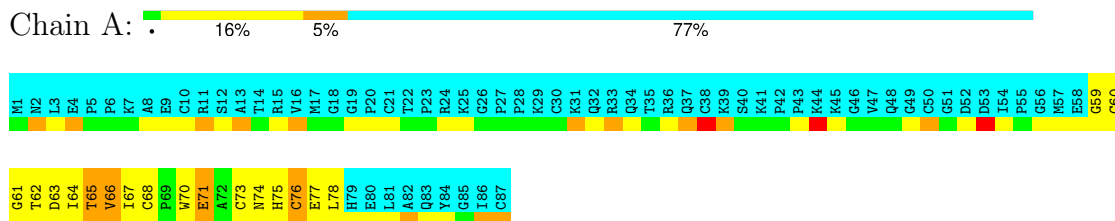
#### 4.2.44 Score per residue for model 44

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



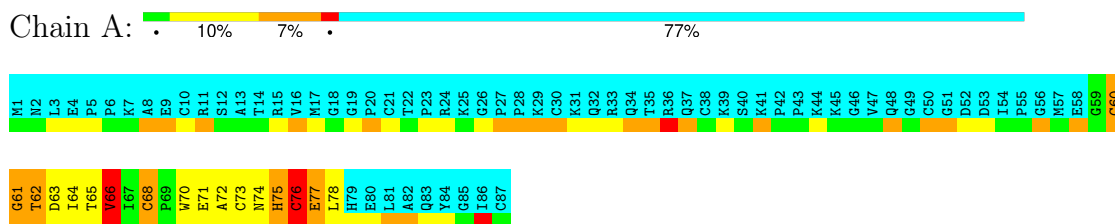
#### 4.2.45 Score per residue for model 45

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



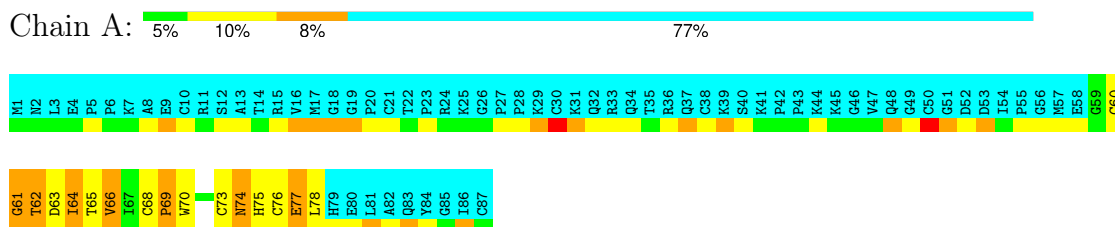
## 4.2.46 Score per residue for model 46

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



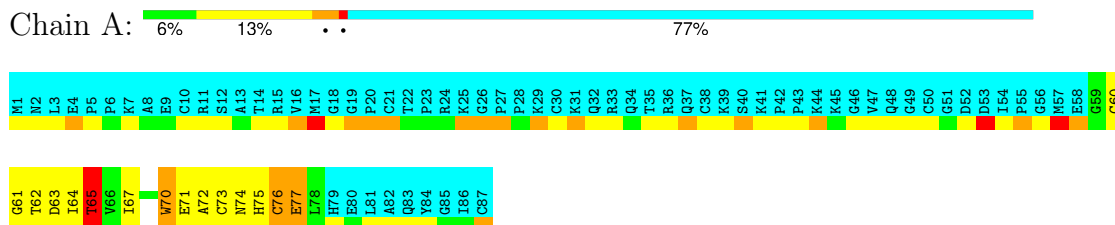
## 4.2.47 Score per residue for model 47

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



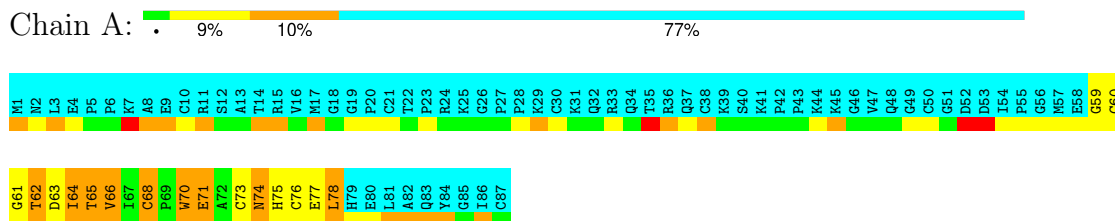
## 4.2.48 Score per residue for model 48

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



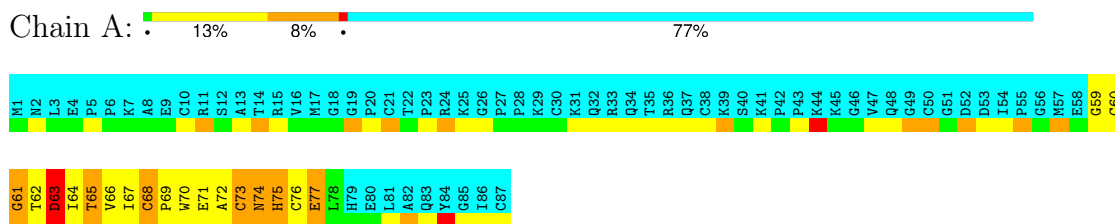
## 4.2.49 Score per residue for model 49

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



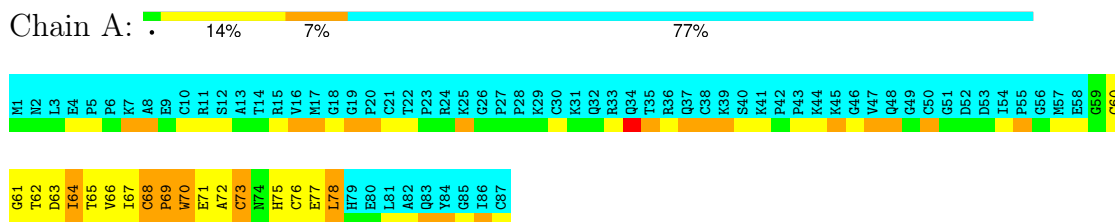
#### 4.2.50 Score per residue for model 50

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



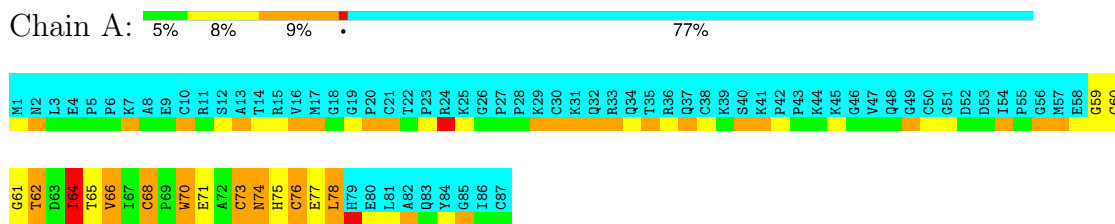
#### 4.2.51 Score per residue for model 51

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



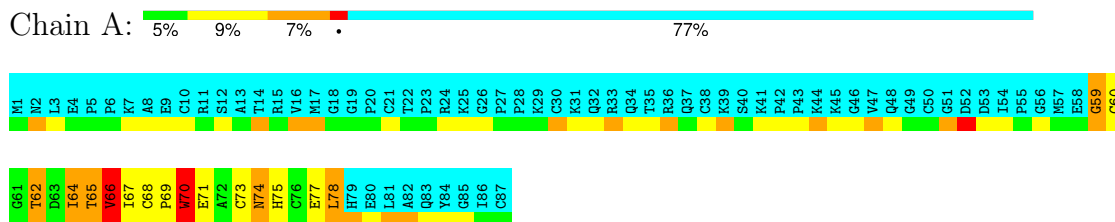
#### 4.2.52 Score per residue for model 52

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



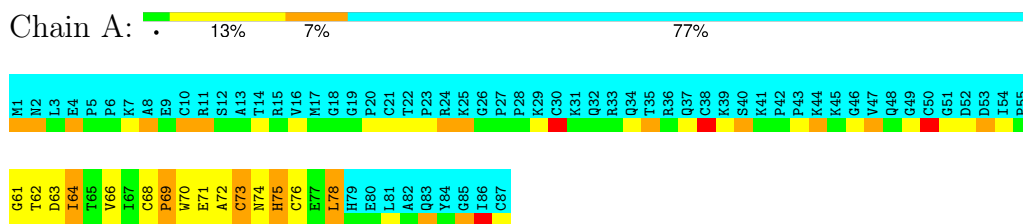
#### 4.2.53 Score per residue for model 53

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



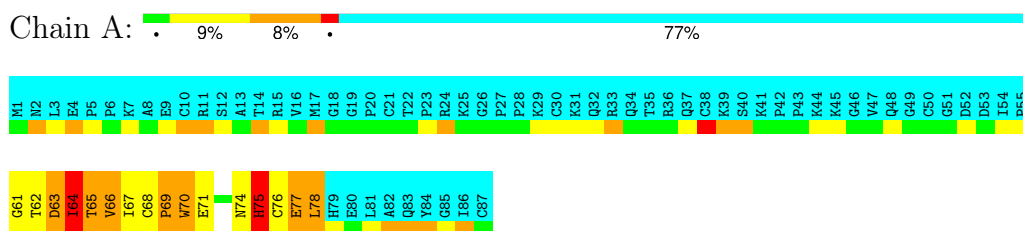
#### 4.2.54 Score per residue for model 54

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



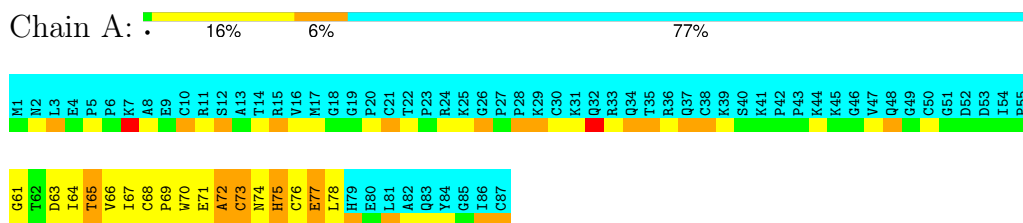
#### 4.2.55 Score per residue for model 55

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



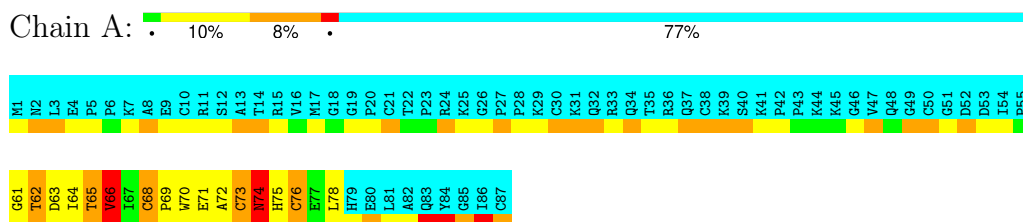
#### 4.2.56 Score per residue for model 56

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



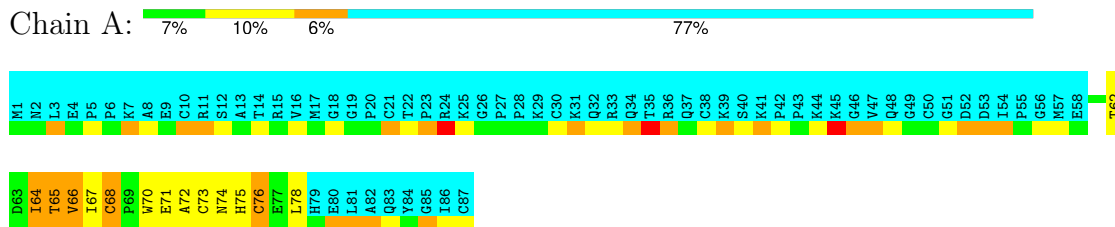
#### 4.2.57 Score per residue for model 57

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



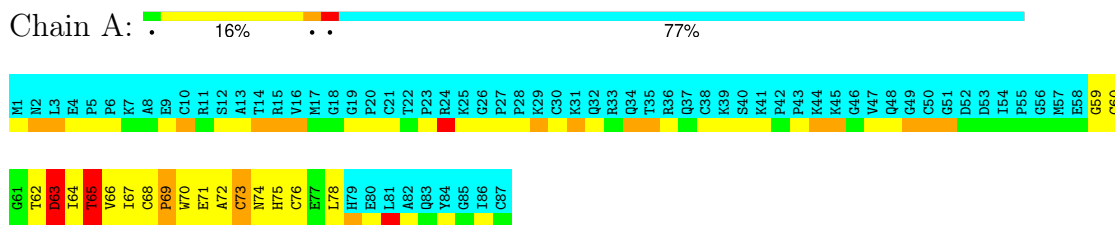
#### 4.2.58 Score per residue for model 58

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



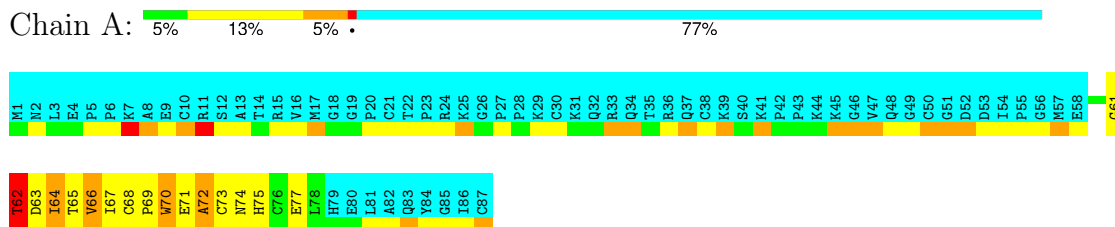
#### 4.2.59 Score per residue for model 59

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



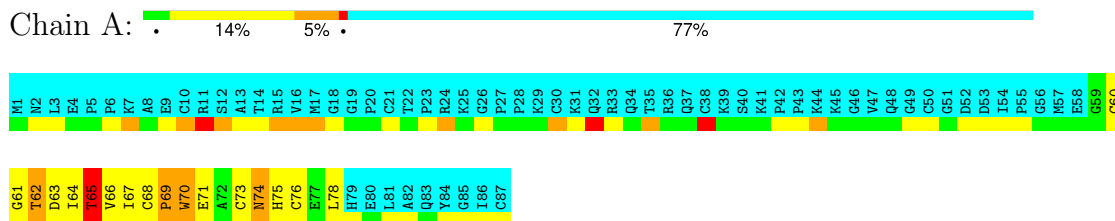
#### 4.2.60 Score per residue for model 60

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



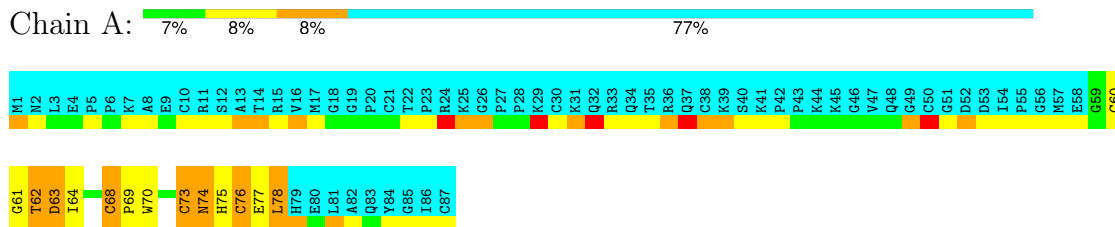
#### 4.2.61 Score per residue for model 61

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



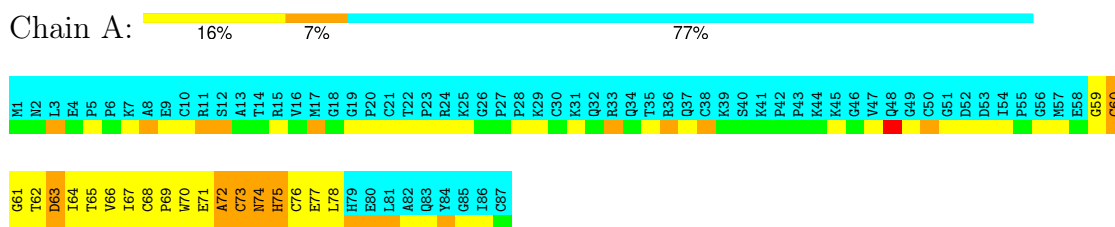
#### 4.2.62 Score per residue for model 62

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



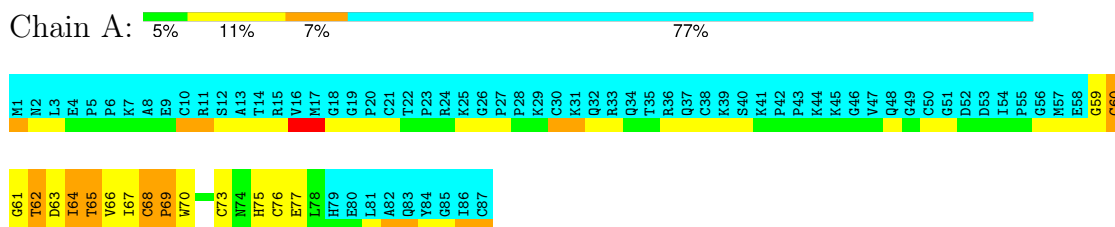
#### 4.2.63 Score per residue for model 63

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



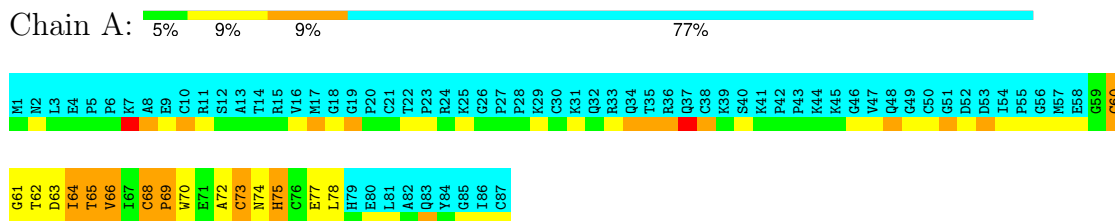
#### 4.2.64 Score per residue for model 64

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



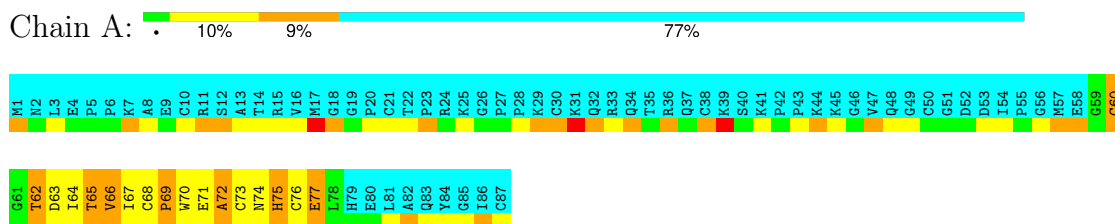
#### 4.2.65 Score per residue for model 65

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



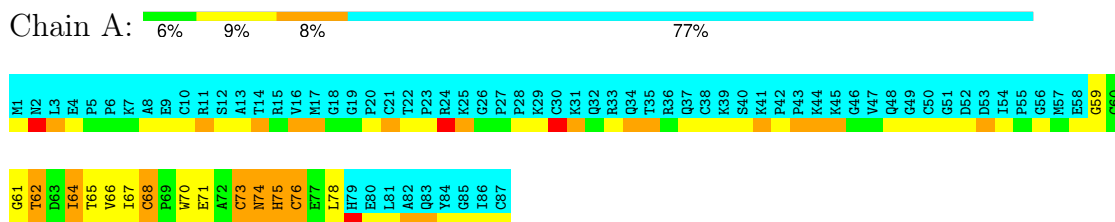
#### 4.2.66 Score per residue for model 66

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



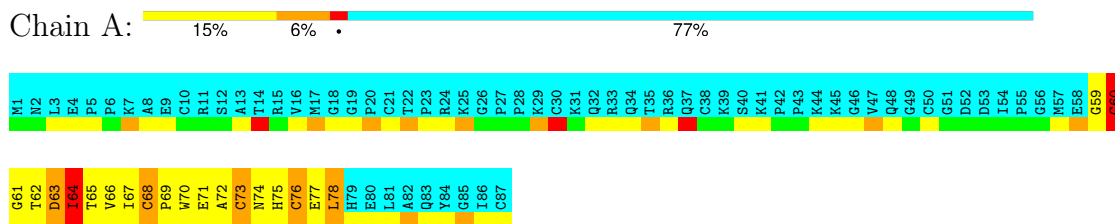
#### 4.2.67 Score per residue for model 67

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



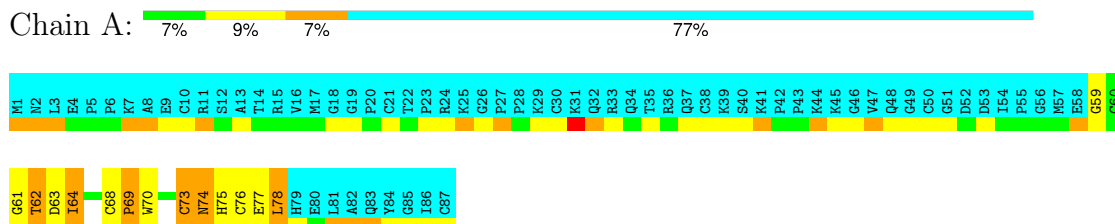
#### 4.2.68 Score per residue for model 68

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



#### 4.2.69 Score per residue for model 69

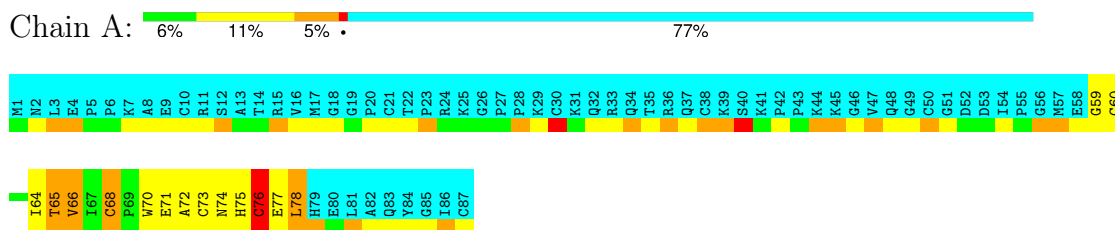
- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma





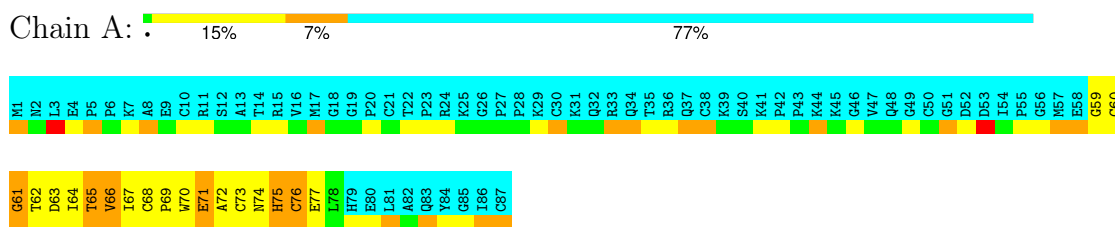
#### 4.2.70 Score per residue for model 70

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



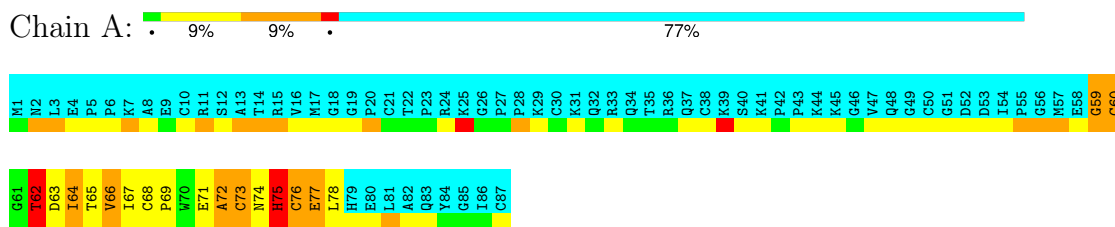
#### 4.2.71 Score per residue for model 71

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



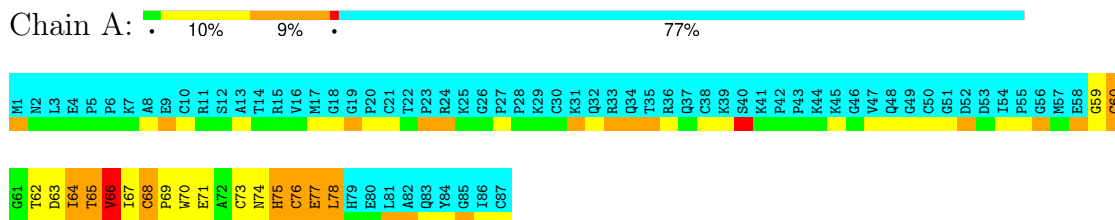
#### 4.2.72 Score per residue for model 72

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



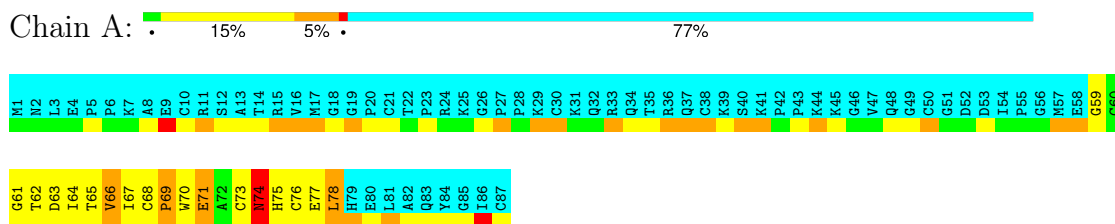
#### 4.2.73 Score per residue for model 73

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



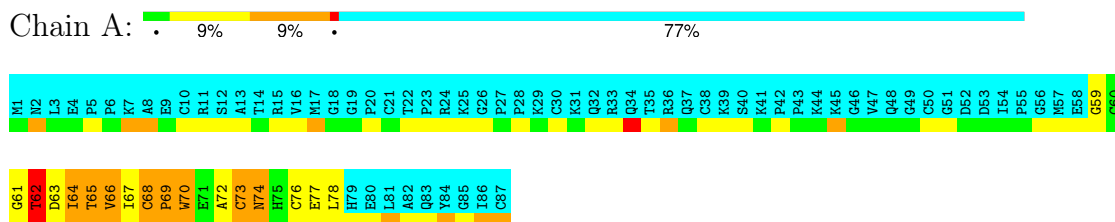
#### 4.2.74 Score per residue for model 74

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



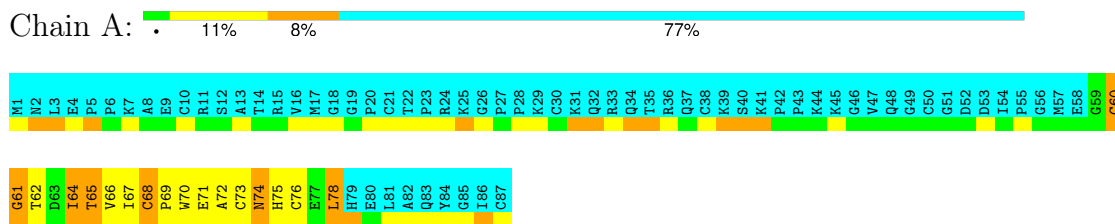
#### 4.2.75 Score per residue for model 75

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



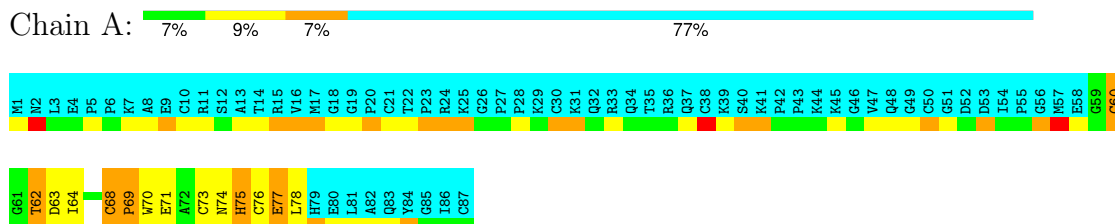
#### 4.2.76 Score per residue for model 76

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



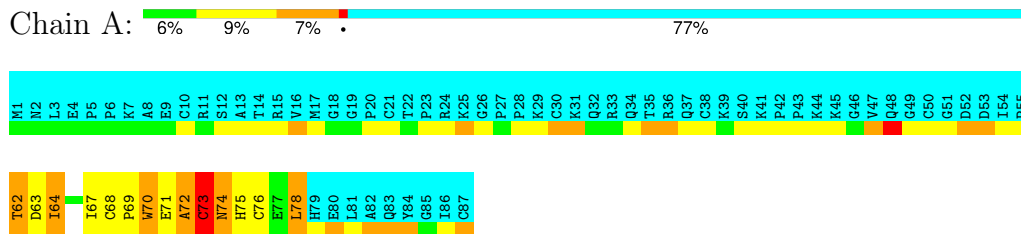
#### 4.2.77 Score per residue for model 77

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



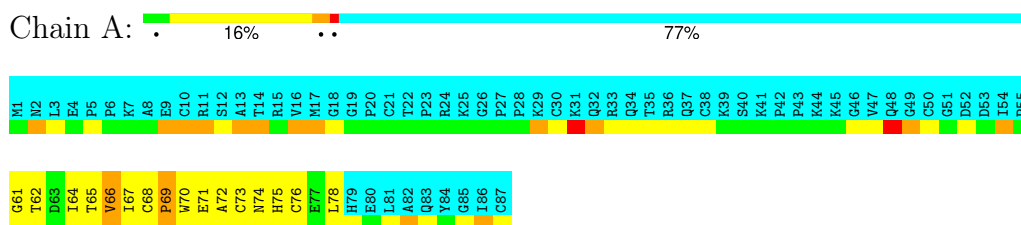
#### 4.2.78 Score per residue for model 78

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



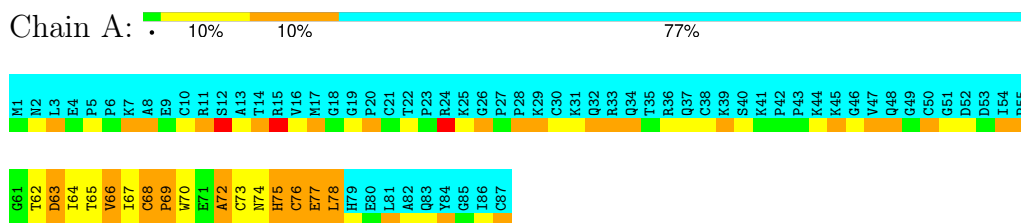
#### 4.2.79 Score per residue for model 79

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



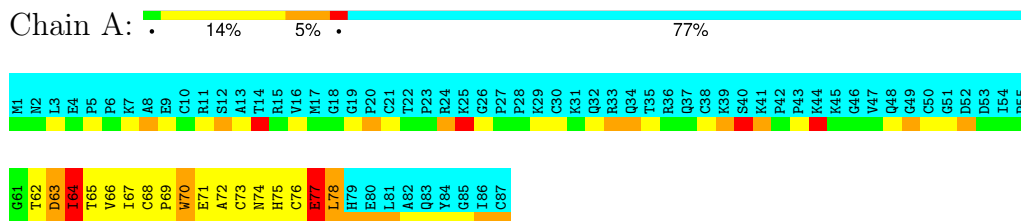
#### 4.2.80 Score per residue for model 80

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



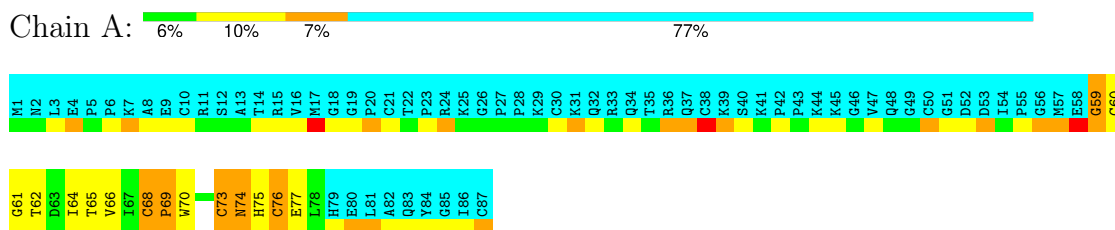
#### 4.2.81 Score per residue for model 81

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



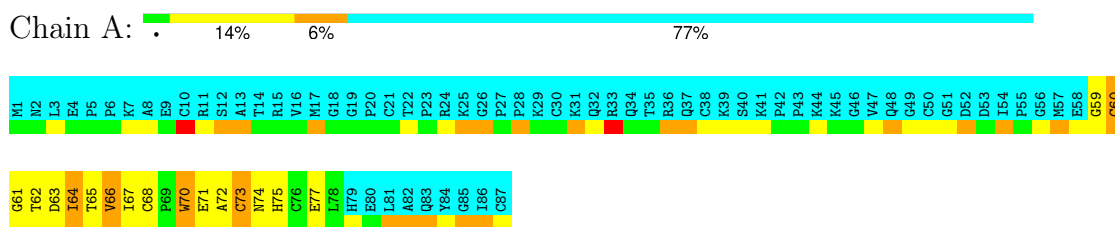
#### 4.2.82 Score per residue for model 82

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



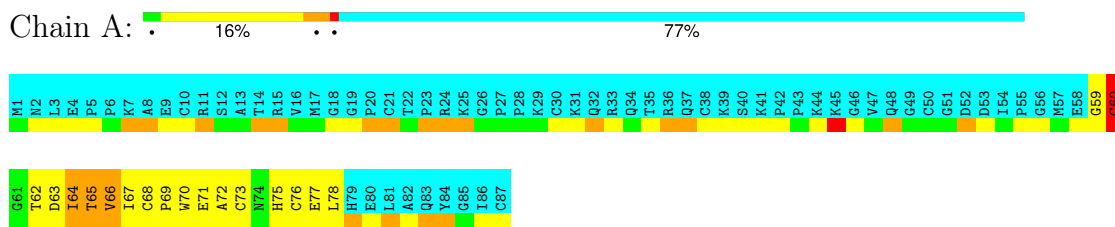
#### 4.2.83 Score per residue for model 83

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



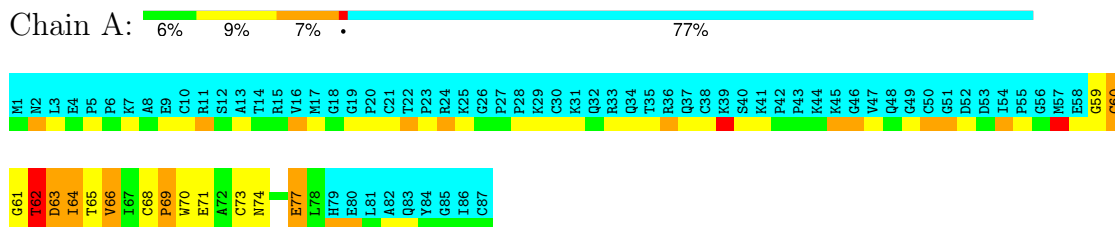
#### 4.2.84 Score per residue for model 84

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



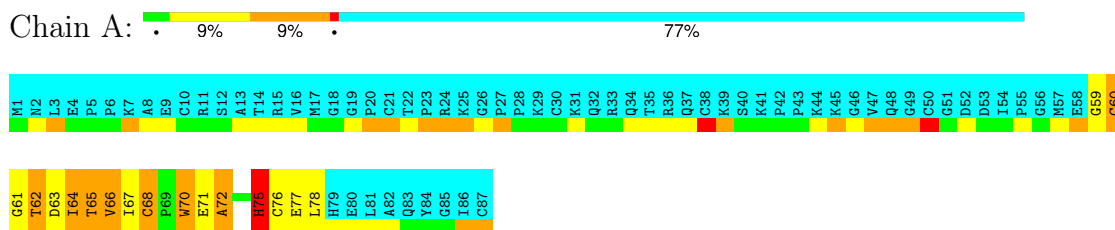
#### 4.2.85 Score per residue for model 85

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



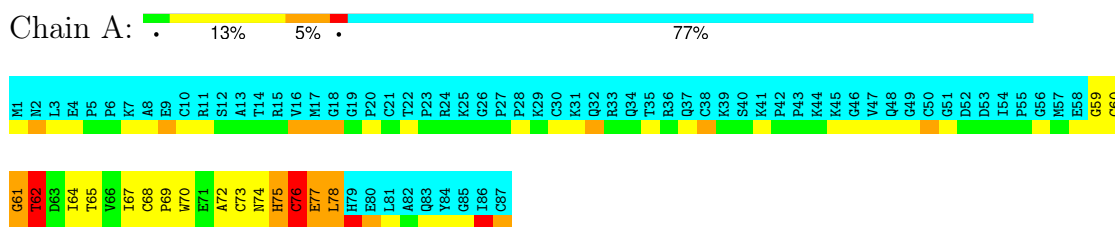
#### 4.2.86 Score per residue for model 86

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



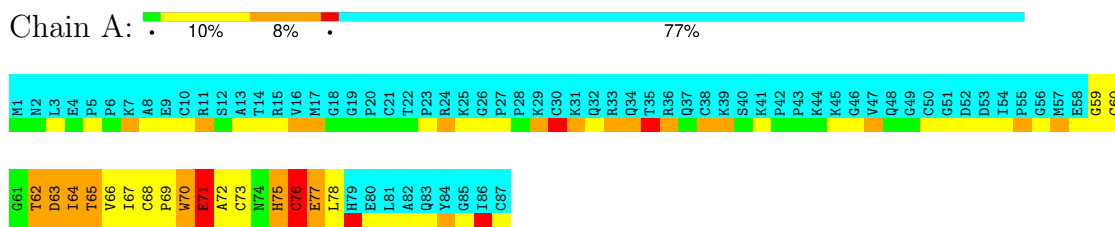
#### 4.2.87 Score per residue for model 87

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



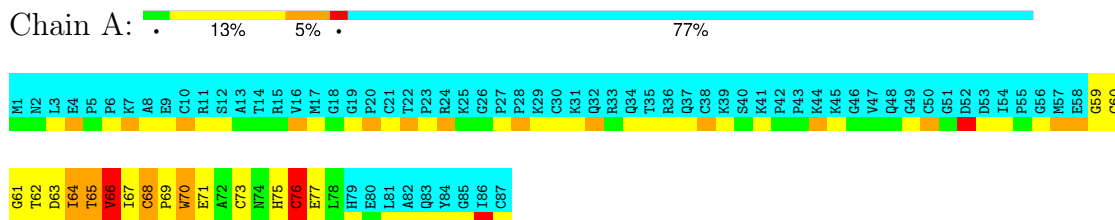
#### 4.2.88 Score per residue for model 88

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



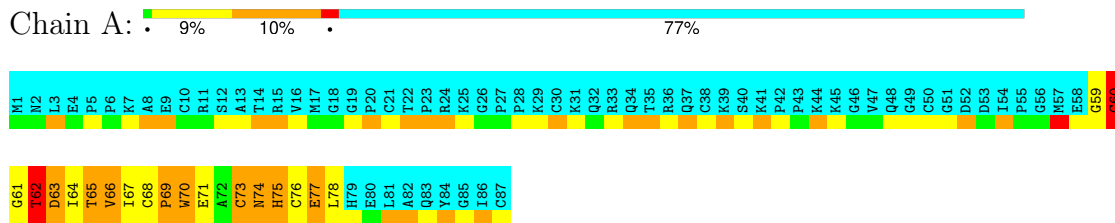
#### 4.2.89 Score per residue for model 89

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



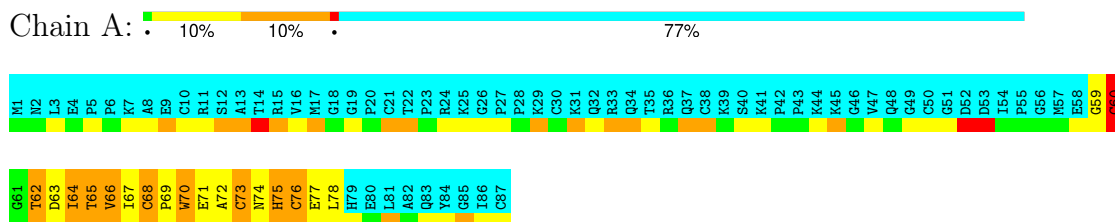
#### 4.2.90 Score per residue for model 90

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



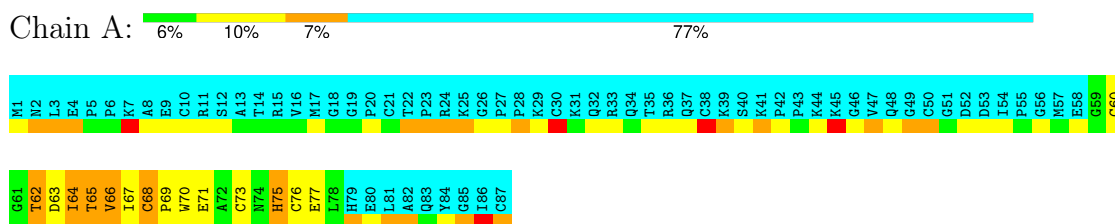
#### 4.2.91 Score per residue for model 91

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



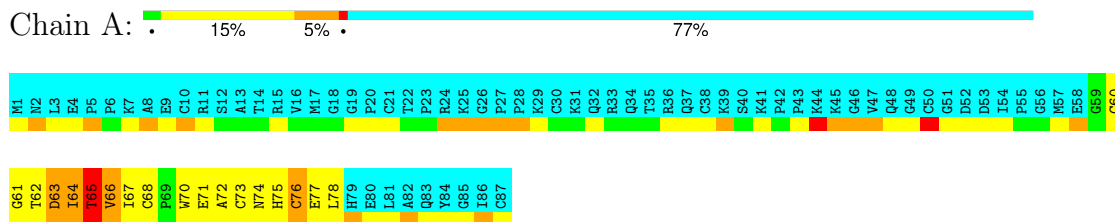
#### 4.2.92 Score per residue for model 92

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



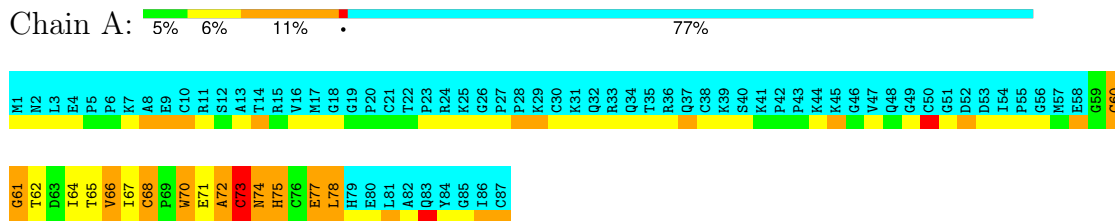
#### 4.2.93 Score per residue for model 93

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



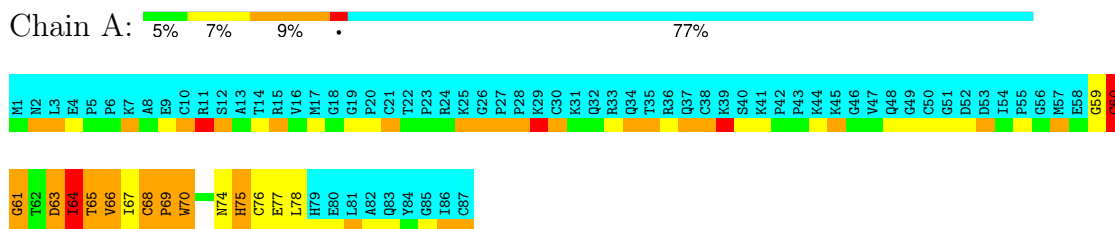
#### 4.2.94 Score per residue for model 94

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



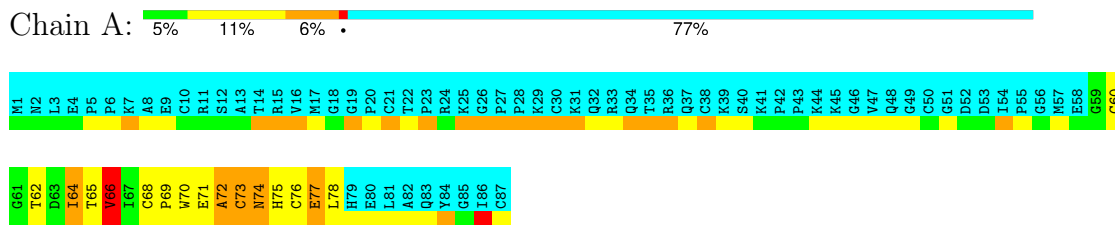
#### 4.2.95 Score per residue for model 95

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



#### 4.2.96 Score per residue for model 96

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



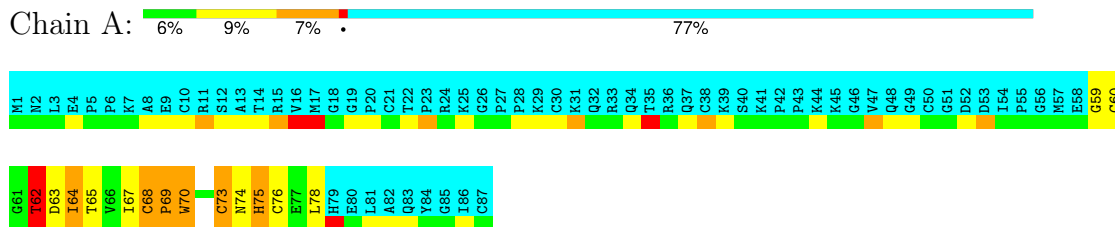
#### 4.2.97 Score per residue for model 97

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



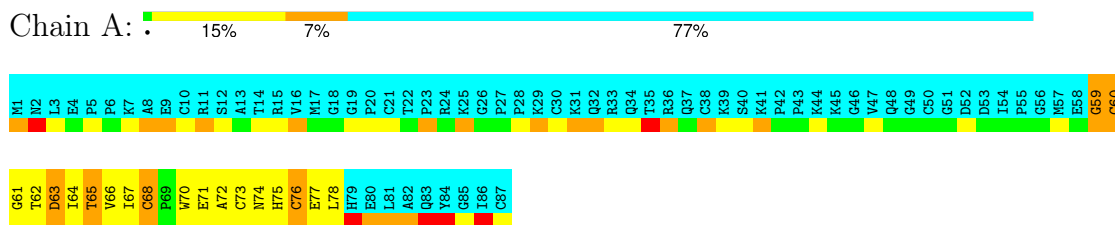
#### 4.2.98 Score per residue for model 98

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



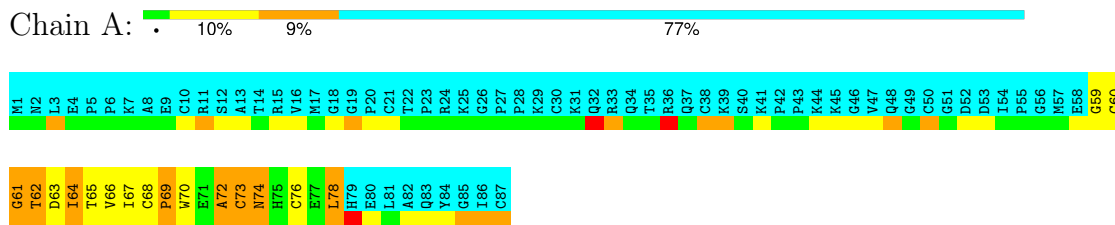
#### 4.2.99 Score per residue for model 99

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma



#### 4.2.100 Score per residue for model 100

- Molecule 1: Retinal rod rhodopsin-sensitive cGMP 3',5'-cyclic phosphodiesterase subunit gamma





## 5 Refinement protocol and experimental data overview

The models were refined using the following method: *molecular dynamics, simulated annealing*.

Of the 200 calculated structures, 100 were deposited, based on the following criterion: *structures with the lowest energy*.

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

| Software name | Classification | Version |
|---------------|----------------|---------|
| XPLOR-NIH     | refinement     | 2.11.2  |

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

|  |                |
|--|----------------|
| Chemical shift file(s)                       | working_cs.cif |
| Number of chemical shift lists               | 1              |
| Total number of shifts                       | 845            |
| Number of shifts mapped to atoms             | 727            |
| Number of unparsed shifts                    | 0              |
| Number of shifts with mapping errors         | 118            |
| Number of shifts with mapping warnings       | 0              |
| Assignment completeness (well-defined parts) | 72%            |

## 6 Model quality i

### 6.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: RCY

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 6.2 Too-close contacts i

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

| Mol | Chain | Non-H | H(model) | H(added) | Clashes |
|-----|-------|-------|----------|----------|---------|
| 1   | A     | 147   | 130      | 128      | 57±23   |
| 2   | A     | 170   | 20       | 152      | 105±32  |
| All | All   | 31700 | 15000    | 27846    | 12091   |

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 203.

All unique clashes are listed below, sorted by their clash magnitude.

| Atom-1          | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|-----------------|------------------|----------|-------------|--------|-------|
|                 |                  |          |             | Worst  | Total |
| 2:A:160:RCY:C1M | 2:A:168:RCY:H1Z  | 1.67     | 1.18        | 9      | 1     |
| 1:A:70:TRP:CZ2  | 2:A:168:RCY:H1MA | 1.66     | 1.25        | 59     | 1     |
| 1:A:70:TRP:CD1  | 2:A:176:RCY:H1CA | 1.66     | 1.15        | 62     | 1     |
| 1:A:64:ILE:CD1  | 2:A:168:RCY:C1P  | 1.66     | 1.74        | 12     | 2     |
| 1:A:70:TRP:CB   | 2:A:121:RCY:H1V  | 1.65     | 1.17        | 30     | 1     |
| 2:A:168:RCY:C1W | 2:A:173:RCY:H1VB | 1.65     | 1.15        | 45     | 2     |
| 1:A:70:TRP:CD2  | 2:A:187:RCY:H1ZA | 1.65     | 1.24        | 76     | 1     |
| 1:A:64:ILE:HD11 | 2:A:160:RCY:C1M  | 1.65     | 1.21        | 6      | 2     |
| 2:A:150:RCY:C1Y | 2:A:160:RCY:C1Z  | 1.64     | 1.75        | 29     | 1     |
| 2:A:173:RCY:C1Z | 2:A:176:RCY:H1M  | 1.64     | 1.12        | 37     | 1     |
| 2:A:150:RCY:H1V | 2:A:160:RCY:C1V  | 1.64     | 1.12        | 42     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:70:TRP:CZ2   | 2:A:176:RCY:H1MA | 1.64     | 1.15        | 85     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:C1M  | 1.64     | 1.76        | 87     | 4     |
| 2:A:130:RCY:H1Y  | 2:A:160:RCY:C1P  | 1.64     | 1.18        | 50     | 1     |
| 2:A:173:RCY:C1P  | 2:A:176:RCY:H1VA | 1.63     | 1.22        | 11     | 1     |
| 1:A:70:TRP:CD1   | 2:A:121:RCY:C1Y  | 1.63     | 1.76        | 49     | 1     |
| 1:A:70:TRP:CE2   | 2:A:176:RCY:H1YA | 1.63     | 1.23        | 80     | 1     |
| 1:A:70:TRP:CD2   | 2:A:187:RCY:C1Z  | 1.63     | 1.81        | 76     | 2     |
| 2:A:168:RCY:H1Z  | 2:A:187:RCY:C1P  | 1.63     | 1.15        | 3      | 1     |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:H1Z  | 1.63     | 1.16        | 89     | 3     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:C1P  | 1.63     | 1.74        | 88     | 1     |
| 2:A:168:RCY:H1L  | 2:A:173:RCY:C1V  | 1.62     | 1.24        | 4      | 1     |
| 2:A:138:RCY:C1C  | 2:A:187:RCY:C1Y  | 1.62     | 1.76        | 100    | 2     |
| 1:A:62:THR:CG2   | 2:A:130:RCY:C1M  | 1.62     | 1.76        | 9      | 1     |
| 2:A:160:RCY:H1M  | 2:A:168:RCY:C1Z  | 1.62     | 1.20        | 9      | 1     |
| 2:A:130:RCY:C1Z  | 2:A:130:RCY:C1W  | 1.62     | 1.75        | 79     | 1     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:C1Z  | 1.62     | 1.77        | 57     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:H1S  | 1.61     | 1.10        | 100    | 2     |
| 2:A:168:RCY:H1C  | 2:A:173:RCY:C1Y  | 1.61     | 1.17        | 21     | 2     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:H1V  | 1.61     | 1.24        | 48     | 1     |
| 1:A:67:ILE:CG2   | 2:A:173:RCY:H1C  | 1.61     | 1.15        | 31     | 1     |
| 2:A:168:RCY:H1M  | 2:A:187:RCY:C1Z  | 1.61     | 1.21        | 31     | 3     |
| 2:A:168:RCY:H1ZA | 2:A:187:RCY:C1M  | 1.61     | 1.22        | 84     | 1     |
| 1:A:68:CYS:H     | 2:A:168:RCY:C1S  | 1.61     | 1.02        | 27     | 6     |
| 2:A:173:RCY:H1C  | 2:A:176:RCY:C1C  | 1.61     | 1.17        | 8      | 1     |
| 2:A:160:RCY:H1M  | 2:A:168:RCY:C1V  | 1.61     | 1.25        | 48     | 2     |
| 1:A:66:VAL:HG11  | 2:A:121:RCY:C1V  | 1.61     | 1.17        | 83     | 1     |
| 2:A:150:RCY:H1VA | 2:A:160:RCY:C1Y  | 1.60     | 1.24        | 42     | 1     |
| 2:A:173:RCY:H1Y  | 2:A:176:RCY:C1V  | 1.60     | 1.26        | 81     | 1     |
| 1:A:64:ILE:HD12  | 2:A:168:RCY:C1S  | 1.60     | 1.26        | 12     | 1     |
| 2:A:168:RCY:C1L  | 2:A:173:RCY:H1Y  | 1.60     | 1.11        | 62     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:H1M  | 1.60     | 1.08        | 33     | 1     |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:H1S  | 1.60     | 1.12        | 38     | 1     |
| 1:A:65:THR:CG2   | 2:A:160:RCY:H1MA | 1.60     | 1.13        | 100    | 2     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:C1Y  | 1.59     | 1.74        | 31     | 2     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:C1L  | 1.59     | 1.75        | 96     | 3     |
| 1:A:70:TRP:CZ2   | 2:A:176:RCY:H1V  | 1.59     | 1.08        | 4      | 1     |
| 2:A:130:RCY:C1Y  | 2:A:160:RCY:C1M  | 1.59     | 1.78        | 50     | 1     |
| 2:A:130:RCY:C1V  | 2:A:160:RCY:C1S  | 1.59     | 1.74        | 8      | 1     |
| 2:A:138:RCY:C1L  | 2:A:150:RCY:C1Q  | 1.59     | 1.80        | 23     | 1     |
| 2:A:176:RCY:C1U  | 2:A:176:RCY:C1X  | 1.59     | 1.79        | 25     | 1     |
| 2:A:173:RCY:C1P  | 2:A:176:RCY:H1VB | 1.59     | 1.23        | 19     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:62:THR:CG2   | 2:A:173:RCY:H1VA | 1.59     | 1.22        | 18     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:176:RCY:C1V  | 1.59     | 1.78        | 22     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:H1ZA | 1.59     | 1.32        | 98     | 2     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:H1L  | 1.59     | 1.30        | 48     | 1     |
| 2:A:168:RCY:H1C  | 2:A:173:RCY:C1M  | 1.59     | 1.23        | 99     | 1     |
| 1:A:71:GLU:CG    | 2:A:168:RCY:H1CB | 1.58     | 1.07        | 93     | 3     |
| 2:A:168:RCY:H1ZA | 2:A:187:RCY:C1P  | 1.58     | 1.21        | 100    | 1     |
| 1:A:70:TRP:CD1   | 2:A:176:RCY:C1C  | 1.58     | 1.79        | 62     | 1     |
| 2:A:110:RCY:H1C  | 2:A:121:RCY:C1Y  | 1.58     | 1.23        | 5      | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:H1YB | 1.58     | 1.21        | 43     | 2     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:H1M  | 1.58     | 1.24        | 1      | 1     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:C1Y  | 1.58     | 1.74        | 5      | 1     |
| 2:A:160:RCY:C1P  | 2:A:168:RCY:H1Y  | 1.58     | 1.29        | 9      | 1     |
| 2:A:150:RCY:H1MA | 2:A:168:RCY:C1Y  | 1.58     | 1.22        | 74     | 1     |
| 2:A:168:RCY:C1S  | 2:A:176:RCY:C1Z  | 1.58     | 1.77        | 77     | 1     |
| 2:A:176:RCY:C1U  | 2:A:187:RCY:H1Z  | 1.57     | 1.17        | 5      | 1     |
| 2:A:160:RCY:C1Z  | 2:A:173:RCY:C1C  | 1.57     | 1.76        | 86     | 2     |
| 2:A:168:RCY:H1ZA | 2:A:173:RCY:C1P  | 1.57     | 1.19        | 58     | 1     |
| 2:A:160:RCY:H1YB | 2:A:173:RCY:C1Z  | 1.57     | 1.06        | 4      | 2     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:H1VA | 1.57     | 1.24        | 10     | 2     |
| 1:A:76:CYS:N     | 2:A:173:RCY:C1C  | 1.57     | 1.67        | 29     | 1     |
| 1:A:73:CYS:SG    | 2:A:173:RCY:H1SA | 1.57     | 1.39        | 79     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:C1Q  | 1.57     | 1.76        | 92     | 2     |
| 1:A:78:LEU:HD21  | 2:A:176:RCY:C1W  | 1.57     | 1.23        | 91     | 1     |
| 1:A:70:TRP:CE3   | 2:A:173:RCY:H1ZA | 1.57     | 1.03        | 92     | 2     |
| 2:A:138:RCY:C1M  | 2:A:173:RCY:C1V  | 1.57     | 1.77        | 92     | 1     |
| 2:A:176:RCY:H1CB | 2:A:187:RCY:C1Y  | 1.57     | 1.05        | 26     | 1     |
| 1:A:69:PRO:HD3   | 2:A:173:RCY:C1Z  | 1.57     | 1.27        | 61     | 1     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:C1V  | 1.57     | 1.75        | 63     | 2     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:C1L  | 1.57     | 1.76        | 92     | 1     |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:C1Y  | 1.56     | 1.28        | 35     | 1     |
| 2:A:150:RCY:H1Z  | 2:A:160:RCY:C1Y  | 1.56     | 1.08        | 88     | 1     |
| 1:A:67:ILE:HB    | 2:A:150:RCY:C1V  | 1.56     | 1.27        | 31     | 1     |
| 2:A:160:RCY:C1U  | 2:A:160:RCY:C1X  | 1.56     | 1.75        | 79     | 1     |
| 1:A:78:LEU:CG    | 2:A:176:RCY:H1MA | 1.56     | 1.16        | 91     | 1     |
| 2:A:168:RCY:C1V  | 2:A:176:RCY:H1M  | 1.56     | 1.13        | 20     | 3     |
| 2:A:138:RCY:H1C  | 2:A:150:RCY:C1Z  | 1.56     | 1.30        | 29     | 1     |
| 2:A:168:RCY:H1YA | 2:A:173:RCY:C1X  | 1.56     | 1.22        | 45     | 1     |
| 2:A:168:RCY:C1M  | 2:A:187:RCY:H1Z  | 1.56     | 1.23        | 31     | 2     |
| 1:A:66:VAL:CG1   | 2:A:121:RCY:H1V  | 1.56     | 1.09        | 83     | 1     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:C1Z  | 1.56     | 1.20        | 87     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:C1Y  | 2:A:187:RCY:H1ZB | 1.55     | 1.20        | 21     | 1     |
| 2:A:138:RCY:H1YA | 2:A:187:RCY:C1Y  | 1.55     | 1.27        | 86     | 2     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:H1YA | 1.55     | 1.26        | 86     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:176:RCY:C1C  | 1.55     | 1.83        | 3      | 1     |
| 1:A:73:CYS:H     | 2:A:173:RCY:C1L  | 1.55     | 1.09        | 10     | 5     |
| 2:A:138:RCY:C1M  | 2:A:150:RCY:C1V  | 1.55     | 1.85        | 19     | 2     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:C1V  | 1.55     | 1.80        | 55     | 3     |
| 1:A:64:ILE:CD1   | 2:A:160:RCY:C1Y  | 1.55     | 1.77        | 49     | 1     |
| 2:A:173:RCY:H1M  | 2:A:187:RCY:C1Y  | 1.55     | 1.15        | 31     | 1     |
| 2:A:173:RCY:C1W  | 2:A:176:RCY:C1C  | 1.55     | 1.76        | 38     | 1     |
| 2:A:173:RCY:H1Z  | 2:A:187:RCY:C1Z  | 1.55     | 1.29        | 84     | 1     |
| 2:A:138:RCY:H1C  | 2:A:187:RCY:C1M  | 1.55     | 1.22        | 11     | 1     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:H1V  | 1.55     | 1.09        | 27     | 1     |
| 2:A:168:RCY:C1V  | 2:A:173:RCY:H1MA | 1.55     | 1.31        | 29     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:H1Y  | 1.55     | 1.29        | 31     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:C1U  | 1.55     | 1.75        | 70     | 3     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:C1C  | 1.55     | 1.28        | 69     | 1     |
| 1:A:72:ALA:HB1   | 2:A:173:RCY:C1P  | 1.54     | 1.08        | 30     | 3     |
| 2:A:168:RCY:C1Y  | 2:A:187:RCY:C1W  | 1.54     | 1.76        | 97     | 1     |
| 2:A:130:RCY:H1U  | 2:A:160:RCY:C1M  | 1.54     | 1.20        | 7      | 1     |
| 2:A:160:RCY:H1VA | 2:A:168:RCY:C1Y  | 1.54     | 1.08        | 32     | 1     |
| 2:A:138:RCY:H1YB | 2:A:150:RCY:C1Q  | 1.54     | 1.30        | 60     | 2     |
| 2:A:168:RCY:H1LA | 2:A:173:RCY:C1Y  | 1.54     | 1.31        | 62     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:173:RCY:H1Z  | 1.54     | 1.03        | 4      | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:H1V  | 1.54     | 1.04        | 55     | 2     |
| 1:A:71:GLU:CB    | 2:A:168:RCY:H1MA | 1.54     | 1.27        | 37     | 1     |
| 1:A:62:THR:HG21  | 2:A:173:RCY:C1V  | 1.54     | 1.29        | 18     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:H1ZA | 1.54     | 1.19        | 84     | 2     |
| 1:A:59:GLY:CA    | 2:A:160:RCY:C1P  | 1.54     | 1.75        | 70     | 1     |
| 2:A:160:RCY:H1MA | 2:A:168:RCY:C1S  | 1.54     | 1.33        | 34     | 1     |
| 1:A:67:ILE:HG22  | 2:A:173:RCY:C1M  | 1.54     | 1.04        | 80     | 1     |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:C1W  | 1.53     | 1.82        | 4      | 1     |
| 2:A:138:RCY:C1U  | 2:A:138:RCY:N1R  | 1.53     | 1.71        | 25     | 2     |
| 2:A:173:RCY:H1YA | 2:A:187:RCY:C1Z  | 1.53     | 1.28        | 89     | 3     |
| 1:A:62:THR:CG2   | 2:A:160:RCY:H1ZB | 1.53     | 1.33        | 46     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:150:RCY:H1Y  | 1.53     | 1.33        | 47     | 1     |
| 2:A:138:RCY:C1M  | 2:A:150:RCY:H1C  | 1.53     | 1.33        | 97     | 2     |
| 2:A:168:RCY:N1R  | 2:A:168:RCY:C1Q  | 1.53     | 1.67        | 79     | 1     |
| 2:A:168:RCY:H1YA | 2:A:187:RCY:C1S  | 1.53     | 1.32        | 88     | 1     |
| 2:A:160:RCY:C1U  | 2:A:160:RCY:N1R  | 1.53     | 1.72        | 79     | 2     |
| 1:A:70:TRP:CB    | 2:A:121:RCY:C1V  | 1.53     | 1.87        | 30     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:H1Z  | 1.53     | 1.32        | 41     | 1     |
| 2:A:168:RCY:H1V  | 2:A:173:RCY:C1C  | 1.53     | 1.07        | 45     | 1     |
| 2:A:160:RCY:H1YB | 2:A:168:RCY:C1P  | 1.53     | 1.21        | 58     | 2     |
| 2:A:110:RCY:C1Y  | 2:A:121:RCY:H1C  | 1.53     | 1.30        | 81     | 1     |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:C1Y  | 1.53     | 1.80        | 26     | 2     |
| 1:A:65:THR:HB    | 2:A:168:RCY:C1P  | 1.53     | 1.05        | 80     | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:C1Y  | 1.53     | 1.87        | 2      | 6     |
| 2:A:110:RCY:C1C  | 2:A:121:RCY:H1YB | 1.53     | 1.26        | 5      | 1     |
| 2:A:138:RCY:H1U  | 2:A:187:RCY:C1C  | 1.52     | 1.06        | 5      | 1     |
| 2:A:138:RCY:C1M  | 2:A:150:RCY:H1VB | 1.52     | 1.32        | 19     | 1     |
| 2:A:168:RCY:C1W  | 2:A:187:RCY:C1Z  | 1.52     | 1.80        | 97     | 1     |
| 2:A:168:RCY:C1C  | 2:A:173:RCY:H1M  | 1.52     | 1.27        | 99     | 1     |
| 2:A:150:RCY:H1VA | 2:A:173:RCY:C1V  | 1.52     | 1.30        | 31     | 1     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:H1S  | 1.52     | 1.28        | 34     | 1     |
| 1:A:69:PRO:C     | 2:A:173:RCY:H1Z  | 1.52     | 1.22        | 85     | 1     |
| 1:A:78:LEU:CD2   | 2:A:176:RCY:C1M  | 1.52     | 1.84        | 91     | 1     |
| 2:A:168:RCY:C1M  | 2:A:187:RCY:C1Y  | 1.52     | 1.87        | 7      | 2     |
| 1:A:64:ILE:HD11  | 2:A:168:RCY:C1P  | 1.52     | 1.27        | 12     | 2     |
| 2:A:168:RCY:C1U  | 2:A:176:RCY:C1Y  | 1.52     | 1.87        | 59     | 3     |
| 1:A:67:ILE:HG13  | 2:A:176:RCY:C1V  | 1.52     | 1.34        | 16     | 1     |
| 2:A:168:RCY:C1U  | 2:A:176:RCY:H1YB | 1.52     | 1.30        | 98     | 1     |
| 1:A:62:THR:HG21  | 2:A:160:RCY:C1Z  | 1.52     | 1.27        | 46     | 1     |
| 2:A:130:RCY:C1Z  | 2:A:160:RCY:C1P  | 1.52     | 1.85        | 61     | 1     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:C1P  | 1.52     | 1.83        | 72     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:H1YB | 1.51     | 1.28        | 41     | 3     |
| 1:A:73:CYS:H     | 2:A:173:RCY:C1S  | 1.51     | 1.07        | 21     | 5     |
| 2:A:150:RCY:C1Z  | 2:A:160:RCY:C1Y  | 1.51     | 1.84        | 88     | 1     |
| 1:A:76:CYS:C     | 2:A:176:RCY:H1LA | 1.51     | 1.26        | 31     | 5     |
| 2:A:173:RCY:H1VB | 2:A:187:RCY:C1C  | 1.51     | 1.31        | 55     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:C1P  | 1.51     | 1.85        | 100    | 2     |
| 1:A:69:PRO:HG3   | 2:A:187:RCY:C1Z  | 1.51     | 1.33        | 54     | 1     |
| 2:A:168:RCY:H1MA | 2:A:187:RCY:C1Z  | 1.51     | 0.99        | 84     | 1     |
| 2:A:176:RCY:C1M  | 2:A:187:RCY:C1Y  | 1.51     | 1.84        | 5      | 1     |
| 2:A:173:RCY:C1U  | 2:A:173:RCY:N1R  | 1.51     | 1.69        | 79     | 2     |
| 2:A:173:RCY:C1S  | 2:A:176:RCY:H1LA | 1.51     | 1.31        | 28     | 2     |
| 2:A:130:RCY:C1Z  | 2:A:160:RCY:C1L  | 1.51     | 1.89        | 61     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:H1C  | 1.51     | 1.04        | 69     | 1     |
| 2:A:168:RCY:C1S  | 2:A:173:RCY:H1U  | 1.51     | 1.35        | 71     | 1     |
| 2:A:138:RCY:C1M  | 2:A:150:RCY:C1P  | 1.51     | 1.89        | 1      | 1     |
| 2:A:176:RCY:C1U  | 2:A:176:RCY:N1R  | 1.51     | 1.73        | 79     | 2     |
| 1:A:75:HIS:NE2   | 2:A:173:RCY:C1Z  | 1.51     | 1.74        | 42     | 1     |

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| Atom-1          | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|-----------------|------------------|----------|-------------|--------|-------|
|                 |                  |          |             | Worst  | Total |
| 2:A:160:RCY:H1U | 2:A:168:RCY:C1C  | 1.51     | 1.02        | 49     | 1     |
| 1:A:69:PRO:HG2  | 2:A:173:RCY:C1C  | 1.51     | 1.08        | 77     | 1     |
| 2:A:168:RCY:C1Y | 2:A:176:RCY:C1V  | 1.51     | 1.88        | 94     | 2     |
| 2:A:173:RCY:C1U | 2:A:176:RCY:C1V  | 1.50     | 1.86        | 89     | 2     |
| 1:A:69:PRO:CG   | 2:A:187:RCY:H1ZB | 1.50     | 1.26        | 54     | 1     |
| 2:A:173:RCY:C1V | 2:A:176:RCY:H1YB | 1.50     | 1.37        | 32     | 3     |
| 1:A:64:ILE:HG13 | 2:A:160:RCY:C1Y  | 1.50     | 1.31        | 19     | 1     |
| 2:A:160:RCY:C1Q | 2:A:160:RCY:C1S  | 1.50     | 1.85        | 25     | 1     |
| 2:A:160:RCY:C1Y | 2:A:168:RCY:H1CB | 1.50     | 1.30        | 47     | 1     |
| 2:A:168:RCY:C1L | 2:A:173:RCY:C1Y  | 1.50     | 1.85        | 62     | 1     |
| 1:A:63:ASP:CB   | 2:A:130:RCY:H1YB | 1.50     | 1.36        | 73     | 1     |
| 1:A:60:CYS:C    | 2:A:138:RCY:H1VB | 1.50     | 1.11        | 7      | 1     |
| 2:A:176:RCY:H1M | 2:A:187:RCY:C1Y  | 1.50     | 1.15        | 5      | 1     |
| 1:A:72:ALA:CB   | 2:A:173:RCY:H1L  | 1.50     | 1.34        | 10     | 1     |
| 1:A:60:CYS:SG   | 2:A:160:RCY:H1SA | 1.50     | 1.45        | 79     | 2     |
| 1:A:70:TRP:CZ3  | 2:A:168:RCY:H1V  | 1.50     | 1.38        | 56     | 1     |
| 1:A:70:TRP:C    | 2:A:173:RCY:C1V  | 1.50     | 1.78        | 84     | 2     |
| 1:A:66:VAL:HG12 | 2:A:121:RCY:C1Y  | 1.50     | 0.98        | 83     | 1     |
| 2:A:173:RCY:C1Y | 2:A:176:RCY:H1CA | 1.50     | 1.34        | 98     | 2     |
| 2:A:173:RCY:C1P | 2:A:176:RCY:C1V  | 1.50     | 1.85        | 11     | 4     |
| 2:A:138:RCY:H1L | 2:A:150:RCY:C1Q  | 1.50     | 1.34        | 23     | 1     |
| 2:A:150:RCY:H1M | 2:A:160:RCY:C1V  | 1.50     | 1.30        | 42     | 1     |
| 1:A:73:CYS:CB   | 2:A:176:RCY:C1C  | 1.50     | 1.83        | 52     | 1     |
| 1:A:64:ILE:HB   | 2:A:168:RCY:C1Z  | 1.49     | 1.33        | 30     | 2     |
| 2:A:173:RCY:C1L | 2:A:176:RCY:C1C  | 1.49     | 1.76        | 52     | 1     |
| 1:A:71:GLU:HA   | 2:A:173:RCY:C1P  | 1.49     | 1.28        | 17     | 2     |
| 1:A:77:GLU:N    | 2:A:176:RCY:C1L  | 1.49     | 1.71        | 87     | 3     |
| 1:A:70:TRP:HZ3  | 2:A:168:RCY:C1M  | 1.49     | 1.18        | 33     | 1     |
| 2:A:176:RCY:C1Z | 2:A:187:RCY:H1C  | 1.49     | 1.32        | 64     | 1     |
| 2:A:168:RCY:C1C | 2:A:173:RCY:H1YA | 1.49     | 1.01        | 21     | 2     |
| 2:A:168:RCY:C1V | 2:A:173:RCY:H1CB | 1.49     | 0.99        | 45     | 1     |
| 1:A:62:THR:HG21 | 2:A:160:RCY:C1V  | 1.49     | 1.36        | 55     | 1     |
| 2:A:150:RCY:C1U | 2:A:150:RCY:N1R  | 1.49     | 1.76        | 79     | 2     |
| 2:A:176:RCY:C1C | 2:A:187:RCY:H1YB | 1.49     | 1.24        | 26     | 1     |
| 2:A:160:RCY:H1U | 2:A:168:RCY:C1M  | 1.49     | 1.01        | 96     | 1     |
| 1:A:70:TRP:CG   | 2:A:173:RCY:C1Y  | 1.49     | 1.95        | 84     | 2     |
| 2:A:110:RCY:C1Y | 2:A:121:RCY:C1C  | 1.49     | 1.89        | 81     | 1     |
| 1:A:70:TRP:CG   | 2:A:173:RCY:H1YA | 1.49     | 1.40        | 84     | 1     |
| 2:A:173:RCY:C1Y | 2:A:187:RCY:H1ZB | 1.49     | 1.36        | 92     | 1     |
| 2:A:138:RCY:C1Y | 2:A:150:RCY:C1Y  | 1.48     | 1.88        | 89     | 3     |
| 1:A:73:CYS:N    | 2:A:173:RCY:H1LA | 1.48     | 1.22        | 10     | 4     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:110:RCY:N1R  | 2:A:110:RCY:C1U  | 1.48     | 1.74        | 79     | 2     |
| 2:A:168:RCY:H1MA | 2:A:173:RCY:C1V  | 1.48     | 0.97        | 27     | 1     |
| 2:A:160:RCY:C1U  | 2:A:168:RCY:C1C  | 1.48     | 1.89        | 49     | 1     |
| 1:A:59:GLY:HA2   | 2:A:160:RCY:C1P  | 1.48     | 0.98        | 70     | 2     |
| 1:A:78:LEU:HD21  | 2:A:176:RCY:C1M  | 1.48     | 1.36        | 91     | 1     |
| 1:A:64:ILE:CD1   | 2:A:160:RCY:C1M  | 1.48     | 1.87        | 6      | 2     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:H1YA | 1.48     | 1.32        | 54     | 2     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:C1M  | 1.48     | 1.96        | 33     | 4     |
| 1:A:70:TRP:CH2   | 2:A:168:RCY:C1P  | 1.48     | 1.91        | 48     | 2     |
| 1:A:70:TRP:CE3   | 2:A:176:RCY:C1Y  | 1.48     | 1.95        | 94     | 1     |
| 2:A:168:RCY:C1C  | 2:A:176:RCY:H1Y  | 1.48     | 1.34        | 59     | 2     |
| 1:A:73:CYS:HA    | 2:A:173:RCY:C1L  | 1.48     | 1.23        | 38     | 7     |
| 2:A:150:RCY:C1V  | 2:A:160:RCY:H1YA | 1.48     | 1.35        | 42     | 1     |
| 1:A:70:TRP:CH2   | 2:A:168:RCY:C1L  | 1.48     | 1.96        | 48     | 1     |
| 2:A:168:RCY:C1Q  | 2:A:173:RCY:H1U  | 1.48     | 1.32        | 71     | 2     |
| 2:A:138:RCY:C1M  | 2:A:187:RCY:C1Y  | 1.48     | 1.87        | 68     | 1     |
| 1:A:70:TRP:CB    | 2:A:173:RCY:H1YA | 1.48     | 1.36        | 84     | 1     |
| 2:A:168:RCY:C1M  | 2:A:187:RCY:C1Z  | 1.48     | 1.89        | 84     | 3     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:C1Y  | 1.48     | 1.84        | 86     | 3     |
| 2:A:173:RCY:C1V  | 2:A:187:RCY:H1C  | 1.48     | 1.34        | 55     | 1     |
| 1:A:69:PRO:CB    | 2:A:150:RCY:H1ZB | 1.48     | 1.34        | 92     | 1     |
| 2:A:130:RCY:C1U  | 2:A:130:RCY:N1R  | 1.48     | 1.76        | 25     | 1     |
| 1:A:67:ILE:HG21  | 2:A:130:RCY:C1M  | 1.48     | 1.35        | 30     | 1     |
| 2:A:173:RCY:H1VB | 2:A:187:RCY:C1X  | 1.48     | 1.35        | 55     | 1     |
| 1:A:69:PRO:C     | 2:A:173:RCY:C1V  | 1.48     | 1.79        | 64     | 1     |
| 1:A:63:ASP:CG    | 2:A:160:RCY:H1ZA | 1.48     | 1.23        | 73     | 1     |
| 2:A:168:RCY:H1ZA | 2:A:187:RCY:C1S  | 1.48     | 1.35        | 100    | 1     |
| 1:A:69:PRO:HD2   | 2:A:168:RCY:C1L  | 1.47     | 1.38        | 78     | 9     |
| 2:A:187:RCY:C1U  | 2:A:187:RCY:N1R  | 1.47     | 1.74        | 79     | 2     |
| 1:A:64:ILE:HG21  | 2:A:168:RCY:C1Z  | 1.47     | 1.32        | 83     | 1     |
| 2:A:173:RCY:H1C  | 2:A:187:RCY:C1M  | 1.47     | 1.37        | 97     | 1     |
| 1:A:63:ASP:HB3   | 2:A:130:RCY:C1Y  | 1.47     | 1.35        | 73     | 1     |
| 2:A:150:RCY:C1V  | 2:A:173:RCY:H1VA | 1.47     | 1.34        | 31     | 1     |
| 2:A:173:RCY:H1CB | 2:A:176:RCY:C1P  | 1.47     | 1.31        | 72     | 2     |
| 2:A:176:RCY:C1Q  | 2:A:176:RCY:N1R  | 1.47     | 1.77        | 25     | 1     |
| 1:A:70:TRP:HZ3   | 2:A:150:RCY:C1Y  | 1.47     | 1.18        | 47     | 1     |
| 1:A:70:TRP:CD2   | 2:A:176:RCY:H1YA | 1.47     | 1.41        | 80     | 1     |
| 1:A:70:TRP:CB    | 2:A:176:RCY:H1ZA | 1.47     | 1.39        | 18     | 2     |
| 2:A:168:RCY:H1VA | 2:A:176:RCY:C1M  | 1.47     | 1.39        | 20     | 1     |
| 2:A:160:RCY:C1V  | 2:A:168:RCY:C1Y  | 1.47     | 1.89        | 32     | 1     |
| 1:A:71:GLU:CA    | 2:A:168:RCY:H1MA | 1.47     | 1.37        | 37     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:69:PRO:CD    | 2:A:168:RCY:H1S  | 1.46     | 1.40        | 75     | 3     |
| 2:A:168:RCY:C1Q  | 2:A:173:RCY:H1ZA | 1.46     | 1.38        | 39     | 2     |
| 1:A:70:TRP:HZ3   | 2:A:168:RCY:C1V  | 1.46     | 1.22        | 56     | 1     |
| 2:A:138:RCY:C1M  | 2:A:187:RCY:H1YB | 1.46     | 0.96        | 68     | 1     |
| 1:A:70:TRP:HB2   | 2:A:173:RCY:C1V  | 1.46     | 1.39        | 4      | 2     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:N1R  | 1.46     | 1.74        | 60     | 1     |
| 2:A:168:RCY:H1ZA | 2:A:187:RCY:C1L  | 1.46     | 1.36        | 100    | 1     |
| 1:A:70:TRP:CB    | 2:A:173:RCY:H1VB | 1.46     | 1.36        | 4      | 1     |
| 1:A:65:THR:HG21  | 2:A:160:RCY:C1M  | 1.46     | 1.33        | 100    | 3     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:C1S  | 1.46     | 1.89        | 100    | 2     |
| 2:A:121:RCY:C1U  | 2:A:121:RCY:N1R  | 1.46     | 1.74        | 25     | 2     |
| 2:A:138:RCY:C1U  | 2:A:187:RCY:C1C  | 1.46     | 1.92        | 5      | 1     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:H1ZA | 1.46     | 1.39        | 29     | 1     |
| 2:A:168:RCY:C1Q  | 2:A:173:RCY:C1U  | 1.46     | 1.83        | 71     | 1     |
| 1:A:62:THR:HG21  | 2:A:168:RCY:C1Z  | 1.46     | 1.35        | 72     | 1     |
| 1:A:70:TRP:N     | 2:A:173:RCY:H1Z  | 1.46     | 1.08        | 85     | 1     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:H1M  | 1.45     | 1.30        | 52     | 2     |
| 1:A:66:VAL:CG1   | 2:A:121:RCY:H1YA | 1.45     | 0.93        | 83     | 1     |
| 2:A:173:RCY:C1S  | 2:A:173:RCY:C1Q  | 1.45     | 1.76        | 79     | 1     |
| 1:A:62:THR:CB    | 2:A:160:RCY:H1CA | 1.45     | 1.38        | 46     | 1     |
| 1:A:69:PRO:CB    | 2:A:176:RCY:C1Z  | 1.45     | 1.93        | 66     | 1     |
| 1:A:71:GLU:CG    | 2:A:168:RCY:C1C  | 1.45     | 1.92        | 93     | 1     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:H1M  | 1.45     | 1.41        | 97     | 1     |
| 2:A:130:RCY:C1C  | 2:A:160:RCY:C1U  | 1.45     | 1.76        | 7      | 1     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:C1U  | 1.45     | 1.36        | 38     | 2     |
| 2:A:138:RCY:O1J  | 2:A:160:RCY:C1Q  | 1.45     | 1.64        | 18     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:176:RCY:O1G  | 1.45     | 1.63        | 20     | 1     |
| 1:A:70:TRP:HE1   | 2:A:121:RCY:C1W  | 1.45     | 1.21        | 49     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:C1S  | 1.45     | 1.92        | 100    | 2     |
| 1:A:64:ILE:HD13  | 2:A:160:RCY:C1Y  | 1.45     | 0.93        | 49     | 1     |
| 1:A:69:PRO:HB2   | 2:A:176:RCY:C1Z  | 1.45     | 1.38        | 66     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:187:RCY:H1S  | 1.44     | 1.41        | 88     | 3     |
| 1:A:68:CYS:CB    | 2:A:160:RCY:H1Y  | 1.44     | 1.40        | 19     | 1     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:H1VA | 1.44     | 1.41        | 19     | 1     |
| 1:A:70:TRP:CD1   | 2:A:173:RCY:H1YB | 1.44     | 1.46        | 84     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:C1Z  | 1.44     | 2.00        | 41     | 3     |
| 2:A:138:RCY:C1Z  | 2:A:187:RCY:C1C  | 1.44     | 1.75        | 71     | 3     |
| 2:A:160:RCY:C1V  | 2:A:168:RCY:H1VB | 1.44     | 1.42        | 48     | 1     |
| 1:A:71:GLU:HG2   | 2:A:168:RCY:C1C  | 1.44     | 1.42        | 93     | 2     |
| 1:A:68:CYS:O     | 2:A:173:RCY:C1V  | 1.44     | 1.64        | 100    | 2     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:C1Z  | 1.44     | 1.88        | 84     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:160:RCY:H1CA | 2:A:168:RCY:N1R  | 1.44     | 1.25        | 39     | 1     |
| 2:A:168:RCY:O1J  | 2:A:187:RCY:C1M  | 1.44     | 1.66        | 70     | 1     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:C1Z  | 1.44     | 1.96        | 57     | 4     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:H1V  | 1.44     | 1.41        | 54     | 1     |
| 2:A:168:RCY:H1M  | 2:A:187:RCY:C1Y  | 1.43     | 1.39        | 7      | 2     |
| 2:A:173:RCY:C1L  | 2:A:176:RCY:H1VB | 1.43     | 1.43        | 11     | 1     |
| 1:A:75:HIS:CA    | 2:A:176:RCY:H1L  | 1.43     | 1.40        | 13     | 1     |
| 1:A:70:TRP:CD1   | 2:A:176:RCY:C1Y  | 1.43     | 1.99        | 80     | 1     |
| 2:A:168:RCY:H1LA | 2:A:173:RCY:C1V  | 1.43     | 1.41        | 80     | 1     |
| 2:A:110:RCY:O1J  | 2:A:121:RCY:C1V  | 1.43     | 1.66        | 5      | 1     |
| 1:A:69:PRO:CG    | 2:A:187:RCY:C1Z  | 1.43     | 1.90        | 54     | 1     |
| 1:A:76:CYS:CA    | 2:A:176:RCY:O1H  | 1.43     | 1.65        | 74     | 3     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:C1Z  | 1.43     | 0.92        | 78     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:H1Z  | 1.43     | 0.94        | 78     | 1     |
| 2:A:138:RCY:H1Z  | 2:A:187:RCY:C1C  | 1.43     | 1.42        | 74     | 2     |
| 1:A:69:PRO:CD    | 2:A:173:RCY:H1ZA | 1.43     | 1.41        | 61     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:150:RCY:O1G  | 1.43     | 1.66        | 98     | 3     |
| 1:A:74:ASN:OD1   | 2:A:176:RCY:C1L  | 1.43     | 1.65        | 78     | 1     |
| 1:A:70:TRP:CG    | 2:A:176:RCY:C1Y  | 1.43     | 2.00        | 80     | 1     |
| 1:A:63:ASP:CB    | 2:A:168:RCY:H1VA | 1.43     | 1.41        | 5      | 1     |
| 2:A:173:RCY:H1U  | 2:A:176:RCY:C1S  | 1.43     | 0.90        | 38     | 1     |
| 2:A:150:RCY:C1M  | 2:A:160:RCY:C1V  | 1.43     | 1.96        | 42     | 1     |
| 2:A:168:RCY:H1U  | 2:A:176:RCY:C1Y  | 1.43     | 1.42        | 98     | 2     |
| 2:A:130:RCY:H1ZA | 2:A:160:RCY:C1L  | 1.43     | 1.39        | 61     | 1     |
| 1:A:72:ALA:N     | 2:A:173:RCY:H1M  | 1.43     | 1.24        | 78     | 1     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:C1C  | 1.43     | 1.89        | 7      | 1     |
| 2:A:168:RCY:C1Y  | 2:A:187:RCY:C1Z  | 1.43     | 1.97        | 21     | 3     |
| 2:A:168:RCY:H1ZA | 2:A:173:RCY:N1R  | 1.43     | 1.22        | 58     | 1     |
| 2:A:187:RCY:N1R  | 2:A:187:RCY:C1Q  | 1.42     | 1.74        | 25     | 1     |
| 1:A:70:TRP:HZ3   | 2:A:168:RCY:C1Z  | 1.42     | 1.24        | 98     | 3     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:O1G  | 1.42     | 1.67        | 89     | 2     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:C1Q  | 1.42     | 1.74        | 19     | 1     |
| 1:A:71:GLU:HA    | 2:A:168:RCY:C1C  | 1.42     | 1.44        | 29     | 1     |
| 1:A:76:CYS:CB    | 2:A:173:RCY:C1C  | 1.42     | 1.93        | 29     | 1     |
| 1:A:70:TRP:CE2   | 2:A:176:RCY:C1M  | 1.42     | 1.83        | 4      | 2     |
| 2:A:168:RCY:C1L  | 2:A:173:RCY:H1V  | 1.42     | 1.43        | 4      | 1     |
| 1:A:72:ALA:HB3   | 2:A:173:RCY:C1L  | 1.42     | 1.42        | 10     | 1     |
| 1:A:70:TRP:N     | 2:A:176:RCY:H1C  | 1.42     | 1.05        | 13     | 1     |
| 1:A:73:CYS:CA    | 2:A:173:RCY:H1LA | 1.42     | 1.19        | 71     | 8     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:C1V  | 1.42     | 1.83        | 89     | 4     |
| 2:A:160:RCY:H1YA | 2:A:168:RCY:C1C  | 1.42     | 1.39        | 47     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:150:RCY:N1R  | 2:A:150:RCY:C1Q  | 1.42     | 1.68        | 79     | 1     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:C1Y  | 1.42     | 1.44        | 32     | 3     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:C1L  | 1.42     | 1.95        | 12     | 2     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:O1H  | 1.42     | 1.65        | 36     | 1     |
| 1:A:64:ILE:CG2   | 2:A:160:RCY:H1YB | 1.41     | 1.42        | 49     | 2     |
| 2:A:110:RCY:C1Z  | 2:A:121:RCY:O1J  | 1.41     | 1.66        | 33     | 1     |
| 1:A:78:LEU:HD11  | 2:A:176:RCY:N1R  | 1.41     | 1.28        | 56     | 1     |
| 2:A:173:RCY:C1U  | 2:A:187:RCY:C1Y  | 1.41     | 1.93        | 70     | 1     |
| 1:A:70:TRP:CH2   | 2:A:168:RCY:O1G  | 1.41     | 1.68        | 48     | 3     |
| 2:A:130:RCY:O1J  | 2:A:138:RCY:C1L  | 1.41     | 1.68        | 58     | 2     |
| 2:A:130:RCY:H1ZA | 2:A:160:RCY:C1P  | 1.41     | 0.89        | 61     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:H1Y  | 1.41     | 1.34        | 9      | 1     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:O1G  | 1.41     | 1.69        | 94     | 4     |
| 2:A:168:RCY:C1V  | 2:A:176:RCY:H1YA | 1.41     | 1.41        | 76     | 2     |
| 2:A:130:RCY:C1M  | 2:A:130:RCY:N1V  | 1.41     | 1.83        | 79     | 1     |
| 1:A:71:GLU:CB    | 2:A:168:RCY:C1L  | 1.41     | 1.89        | 57     | 5     |
| 1:A:69:PRO:CD    | 2:A:168:RCY:O1H  | 1.41     | 1.67        | 23     | 2     |
| 1:A:75:HIS:CD2   | 2:A:173:RCY:H1Z  | 1.41     | 1.51        | 42     | 1     |
| 1:A:72:ALA:H     | 2:A:173:RCY:C1M  | 1.41     | 1.27        | 78     | 1     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:H1ZA | 1.41     | 1.45        | 87     | 1     |
| 2:A:150:RCY:H1ZA | 2:A:176:RCY:C1C  | 1.41     | 0.88        | 3      | 1     |
| 2:A:138:RCY:H1C  | 2:A:150:RCY:C1V  | 1.41     | 1.45        | 54     | 2     |
| 2:A:168:RCY:N1V  | 2:A:173:RCY:H1VB | 1.41     | 1.21        | 48     | 2     |
| 1:A:70:TRP:CG    | 2:A:176:RCY:H1CA | 1.41     | 1.47        | 62     | 1     |
| 2:A:173:RCY:C1Q  | 2:A:176:RCY:C1V  | 1.41     | 1.98        | 76     | 1     |
| 2:A:160:RCY:N1V  | 2:A:168:RCY:H1C  | 1.41     | 1.28        | 89     | 1     |
| 1:A:68:CYS:CB    | 2:A:160:RCY:C1Y  | 1.40     | 1.99        | 19     | 2     |
| 1:A:71:GLU:CB    | 2:A:168:RCY:H1L  | 1.40     | 1.03        | 57     | 3     |
| 2:A:160:RCY:C1C  | 2:A:173:RCY:C1Z  | 1.40     | 1.84        | 11     | 1     |
| 1:A:64:ILE:HG12  | 2:A:160:RCY:C1C  | 1.40     | 1.42        | 48     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:O1J  | 1.40     | 1.69        | 71     | 1     |
| 2:A:150:RCY:C1W  | 2:A:187:RCY:C1V  | 1.40     | 1.96        | 76     | 1     |
| 2:A:130:RCY:C1S  | 2:A:130:RCY:C1L  | 1.40     | 1.97        | 79     | 1     |
| 1:A:64:ILE:CG2   | 2:A:168:RCY:C1Z  | 1.40     | 1.98        | 83     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:150:RCY:H1LA | 1.40     | 1.47        | 1      | 1     |
| 2:A:168:RCY:C1V  | 2:A:176:RCY:C1M  | 1.40     | 1.94        | 20     | 3     |
| 1:A:70:TRP:CB    | 2:A:150:RCY:C1U  | 1.40     | 1.76        | 34     | 1     |
| 1:A:71:GLU:HB2   | 2:A:168:RCY:C1M  | 1.40     | 1.45        | 37     | 1     |
| 1:A:70:TRP:NE1   | 2:A:176:RCY:H1M  | 1.40     | 1.30        | 4      | 1     |
| 2:A:130:RCY:C1U  | 2:A:160:RCY:H1M  | 1.40     | 0.88        | 7      | 1     |
| 1:A:73:CYS:N     | 2:A:173:RCY:C1S  | 1.40     | 1.85        | 76     | 6     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:H1Y  | 2:A:173:RCY:C1Z  | 1.40     | 1.24        | 20     | 1     |
| 2:A:173:RCY:C1W  | 2:A:176:RCY:C1V  | 1.40     | 1.98        | 31     | 2     |
| 1:A:73:CYS:C     | 2:A:173:RCY:H1LA | 1.40     | 1.33        | 33     | 3     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:C1L  | 1.40     | 2.02        | 48     | 1     |
| 2:A:168:RCY:H1Z  | 2:A:173:RCY:C1V  | 1.40     | 1.45        | 58     | 2     |
| 1:A:77:GLU:OE2   | 2:A:176:RCY:C1Z  | 1.40     | 1.68        | 73     | 1     |
| 1:A:66:VAL:CG1   | 2:A:121:RCY:H1Z  | 1.40     | 1.47        | 89     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:176:RCY:H1V  | 1.40     | 1.40        | 94     | 1     |
| 1:A:65:THR:CB    | 2:A:160:RCY:H1ZA | 1.40     | 1.45        | 100    | 1     |
| 1:A:70:TRP:CZ2   | 2:A:176:RCY:C1V  | 1.40     | 2.05        | 4      | 1     |
| 1:A:65:THR:CG2   | 2:A:160:RCY:C1M  | 1.40     | 1.89        | 100    | 3     |
| 1:A:72:ALA:O     | 2:A:168:RCY:C1Y  | 1.40     | 1.70        | 57     | 1     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:O1H  | 1.40     | 1.67        | 62     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:121:RCY:O1H  | 1.40     | 1.74        | 78     | 1     |
| 1:A:60:CYS:O     | 2:A:130:RCY:C1Q  | 1.39     | 1.68        | 18     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:H1YA | 1.39     | 1.45        | 18     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:C1Z  | 1.39     | 1.98        | 92     | 4     |
| 2:A:160:RCY:C1V  | 2:A:168:RCY:H1YA | 1.39     | 1.38        | 32     | 1     |
| 1:A:60:CYS:N     | 2:A:160:RCY:H1VB | 1.39     | 1.30        | 83     | 2     |
| 1:A:60:CYS:HA    | 2:A:160:RCY:C1L  | 1.39     | 1.26        | 99     | 2     |
| 1:A:76:CYS:HA    | 2:A:176:RCY:C1L  | 1.39     | 1.42        | 62     | 7     |
| 1:A:66:VAL:O     | 2:A:168:RCY:C1C  | 1.39     | 1.69        | 58     | 2     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:C1V  | 1.39     | 1.39        | 55     | 3     |
| 1:A:59:GLY:O     | 2:A:160:RCY:C1L  | 1.39     | 1.65        | 53     | 2     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:C1P  | 1.39     | 1.98        | 58     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:160:RCY:H1CB | 1.39     | 1.50        | 34     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:C1C  | 1.39     | 2.01        | 96     | 3     |
| 2:A:138:RCY:H1MA | 2:A:187:RCY:C1Y  | 1.39     | 1.43        | 68     | 1     |
| 2:A:160:RCY:C1U  | 2:A:168:RCY:C1M  | 1.39     | 1.97        | 96     | 1     |
| 2:A:138:RCY:H1MA | 2:A:150:RCY:C1P  | 1.39     | 1.46        | 1      | 1     |
| 2:A:160:RCY:C1Y  | 2:A:173:RCY:C1Z  | 1.39     | 2.01        | 41     | 2     |
| 2:A:138:RCY:H1C  | 2:A:160:RCY:C1Y  | 1.39     | 1.34        | 27     | 1     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:H1V  | 1.39     | 1.46        | 72     | 2     |
| 1:A:67:ILE:CG2   | 2:A:173:RCY:C1M  | 1.39     | 2.00        | 80     | 1     |
| 1:A:64:ILE:CG1   | 2:A:168:RCY:H1L  | 1.39     | 1.37        | 96     | 3     |
| 2:A:168:RCY:C1U  | 2:A:168:RCY:N1R  | 1.39     | 1.85        | 25     | 1     |
| 2:A:173:RCY:C1M  | 2:A:187:RCY:C1Y  | 1.39     | 2.00        | 31     | 1     |
| 1:A:71:GLU:CB    | 2:A:168:RCY:C1M  | 1.39     | 2.00        | 37     | 1     |
| 1:A:71:GLU:OE2   | 2:A:176:RCY:C1C  | 1.39     | 1.69        | 37     | 2     |
| 2:A:160:RCY:H1CA | 2:A:168:RCY:C1Q  | 1.39     | 1.47        | 39     | 1     |
| 2:A:160:RCY:C1U  | 2:A:168:RCY:H1C  | 1.39     | 1.40        | 49     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:C1Q  | 2:A:173:RCY:C1Z  | 1.38     | 1.98        | 39     | 2     |
| 1:A:64:ILE:HD12  | 2:A:168:RCY:C1L  | 1.38     | 1.47        | 12     | 1     |
| 2:A:138:RCY:H1Y  | 2:A:187:RCY:C1C  | 1.38     | 1.45        | 96     | 2     |
| 2:A:168:RCY:O1J  | 2:A:187:RCY:C1U  | 1.38     | 1.69        | 70     | 1     |
| 1:A:75:HIS:ND1   | 2:A:176:RCY:H1C  | 1.38     | 1.33        | 84     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:C1U  | 1.38     | 1.99        | 52     | 3     |
| 1:A:70:TRP:CD1   | 2:A:173:RCY:H1C  | 1.38     | 1.53        | 38     | 1     |
| 2:A:160:RCY:H1Y  | 2:A:173:RCY:C1Z  | 1.38     | 1.48        | 41     | 1     |
| 2:A:150:RCY:C1V  | 2:A:160:RCY:C1V  | 1.38     | 1.79        | 42     | 1     |
| 1:A:70:TRP:CA    | 2:A:173:RCY:H1ZA | 1.38     | 1.17        | 49     | 3     |
| 2:A:121:RCY:C1V  | 2:A:168:RCY:H1YB | 1.38     | 1.47        | 49     | 1     |
| 2:A:168:RCY:H1CB | 2:A:176:RCY:C1W  | 1.38     | 1.46        | 59     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:C1Z  | 1.38     | 2.01        | 60     | 1     |
| 2:A:168:RCY:C1Q  | 2:A:173:RCY:C1M  | 1.38     | 2.02        | 71     | 1     |
| 1:A:63:ASP:OD2   | 2:A:160:RCY:C1Z  | 1.38     | 1.72        | 73     | 1     |
| 1:A:65:THR:CB    | 2:A:168:RCY:C1P  | 1.38     | 1.98        | 80     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:O1G  | 1.38     | 1.69        | 1      | 2     |
| 2:A:110:RCY:H1VA | 2:A:121:RCY:C1M  | 1.38     | 1.48        | 5      | 1     |
| 2:A:168:RCY:H1U  | 2:A:187:RCY:N1V  | 1.38     | 1.22        | 64     | 1     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:C1C  | 1.38     | 1.99        | 77     | 1     |
| 2:A:130:RCY:N1V  | 2:A:130:RCY:C1X  | 1.38     | 1.85        | 79     | 1     |
| 2:A:130:RCY:H1YA | 2:A:160:RCY:C1Q  | 1.38     | 1.47        | 88     | 1     |
| 2:A:173:RCY:H1CA | 2:A:173:RCY:O1H  | 1.38     | 1.18        | 9      | 4     |
| 2:A:168:RCY:C1C  | 2:A:173:RCY:C1Y  | 1.38     | 1.86        | 21     | 1     |
| 1:A:67:ILE:CB    | 2:A:150:RCY:H1V  | 1.38     | 1.46        | 31     | 1     |
| 2:A:150:RCY:C1V  | 2:A:160:RCY:H1V  | 1.38     | 0.87        | 42     | 1     |
| 2:A:138:RCY:H1M  | 2:A:150:RCY:C1C  | 1.38     | 1.46        | 97     | 2     |
| 1:A:69:PRO:CD    | 2:A:150:RCY:H1YA | 1.38     | 1.44        | 85     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:160:RCY:H1YB | 1.38     | 1.42        | 88     | 1     |
| 1:A:68:CYS:C     | 2:A:173:RCY:C1V  | 1.38     | 1.89        | 100    | 1     |
| 1:A:61:GLY:N     | 2:A:138:RCY:C1V  | 1.38     | 1.84        | 7      | 1     |
| 1:A:73:CYS:CA    | 2:A:173:RCY:C1L  | 1.38     | 1.79        | 32     | 8     |
| 1:A:72:ALA:CB    | 2:A:173:RCY:C1P  | 1.38     | 1.99        | 30     | 2     |
| 1:A:73:CYS:HB2   | 2:A:176:RCY:C1C  | 1.38     | 0.87        | 52     | 1     |
| 1:A:75:HIS:ND1   | 2:A:176:RCY:C1C  | 1.38     | 1.85        | 84     | 1     |
| 1:A:60:CYS:CA    | 2:A:160:RCY:H1LA | 1.38     | 1.23        | 99     | 1     |
| 1:A:65:THR:HG21  | 2:A:160:RCY:C1W  | 1.37     | 1.47        | 100    | 1     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:O1J  | 1.37     | 1.72        | 91     | 2     |
| 1:A:64:ILE:HG12  | 2:A:168:RCY:C1L  | 1.37     | 1.37        | 96     | 2     |
| 2:A:173:RCY:H1C  | 2:A:187:RCY:C1Y  | 1.37     | 1.48        | 48     | 2     |
| 2:A:138:RCY:H1CB | 2:A:160:RCY:C1V  | 1.37     | 1.26        | 27     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:150:RCY:C1Z  | 2:A:187:RCY:H1YA | 1.37     | 1.47        | 49     | 3     |
| 2:A:138:RCY:C1V  | 2:A:187:RCY:O1J  | 1.37     | 1.70        | 96     | 2     |
| 2:A:138:RCY:C1C  | 2:A:160:RCY:H1YA | 1.37     | 1.33        | 27     | 2     |
| 1:A:71:GLU:HB2   | 2:A:168:RCY:C1U  | 1.37     | 1.49        | 37     | 1     |
| 1:A:78:LEU:CD2   | 2:A:187:RCY:C1X  | 1.37     | 2.03        | 91     | 1     |
| 1:A:73:CYS:CA    | 2:A:168:RCY:C1Z  | 1.37     | 1.99        | 99     | 1     |
| 2:A:173:RCY:C1P  | 2:A:187:RCY:H1CB | 1.37     | 1.49        | 99     | 1     |
| 2:A:168:RCY:H1VB | 2:A:173:RCY:C1M  | 1.37     | 1.47        | 29     | 1     |
| 2:A:160:RCY:H1MA | 2:A:168:RCY:C1M  | 1.37     | 1.47        | 41     | 1     |
| 2:A:121:RCY:C1Y  | 2:A:160:RCY:H1ZB | 1.37     | 1.50        | 44     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:O1G  | 1.37     | 1.70        | 93     | 2     |
| 1:A:69:PRO:HB3   | 2:A:150:RCY:C1Z  | 1.37     | 1.48        | 92     | 1     |
| 2:A:176:RCY:H1U  | 2:A:187:RCY:C1Z  | 1.36     | 1.50        | 5      | 1     |
| 2:A:160:RCY:C1C  | 2:A:168:RCY:C1Q  | 1.36     | 2.01        | 39     | 1     |
| 1:A:70:TRP:CA    | 2:A:168:RCY:H1CA | 1.36     | 1.28        | 57     | 1     |
| 2:A:168:RCY:N1R  | 2:A:168:RCY:C1U  | 1.36     | 1.84        | 79     | 1     |
| 1:A:76:CYS:CA    | 2:A:176:RCY:H1LA | 1.36     | 1.37        | 31     | 5     |
| 1:A:70:TRP:HZ2   | 2:A:160:RCY:C1C  | 1.36     | 1.30        | 34     | 1     |
| 2:A:173:RCY:H1ZA | 2:A:176:RCY:C1M  | 1.36     | 1.48        | 37     | 1     |
| 1:A:70:TRP:O     | 2:A:173:RCY:C1P  | 1.36     | 1.71        | 94     | 3     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:C1M  | 1.36     | 2.01        | 89     | 2     |
| 2:A:138:RCY:H1CA | 2:A:138:RCY:O1G  | 1.36     | 1.18        | 17     | 4     |
| 1:A:71:GLU:CA    | 2:A:173:RCY:O1G  | 1.36     | 1.72        | 83     | 2     |
| 2:A:173:RCY:C1L  | 2:A:176:RCY:O1G  | 1.36     | 1.71        | 71     | 2     |
| 2:A:160:RCY:C1V  | 2:A:168:RCY:H1M  | 1.36     | 1.16        | 92     | 3     |
| 1:A:65:THR:HG21  | 2:A:160:RCY:C1Z  | 1.36     | 1.47        | 100    | 1     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:C1V  | 1.36     | 1.48        | 19     | 2     |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:N1V  | 1.36     | 1.33        | 9      | 1     |
| 1:A:64:ILE:CG2   | 2:A:150:RCY:H1VA | 1.36     | 1.47        | 16     | 1     |
| 1:A:70:TRP:HA    | 2:A:173:RCY:C1Z  | 1.36     | 1.50        | 85     | 2     |
| 2:A:168:RCY:H1ZB | 2:A:173:RCY:O1J  | 1.36     | 1.16        | 55     | 1     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:O1H  | 1.36     | 1.74        | 56     | 1     |
| 1:A:74:ASN:OD1   | 2:A:173:RCY:C1C  | 1.36     | 1.69        | 91     | 1     |
| 1:A:78:LEU:HD21  | 2:A:176:RCY:C1Y  | 1.36     | 1.51        | 91     | 1     |
| 2:A:176:RCY:O1G  | 2:A:176:RCY:H1VB | 1.36     | 1.20        | 4      | 7     |
| 2:A:168:RCY:H1ZA | 2:A:176:RCY:N1V  | 1.36     | 1.35        | 11     | 1     |
| 1:A:67:ILE:CA    | 2:A:176:RCY:H1VA | 1.36     | 1.51        | 16     | 1     |
| 1:A:73:CYS:C     | 2:A:176:RCY:C1C  | 1.36     | 1.85        | 20     | 2     |
| 2:A:173:RCY:C1W  | 2:A:176:RCY:C1Y  | 1.36     | 2.02        | 81     | 2     |
| 2:A:173:RCY:C1V  | 2:A:187:RCY:H1VA | 1.36     | 1.51        | 55     | 2     |
| 2:A:173:RCY:H1L  | 2:A:176:RCY:C1P  | 1.36     | 1.48        | 71     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:138:RCY:O1H  | 2:A:150:RCY:C1Z  | 1.36     | 1.70        | 82     | 2     |
| 2:A:173:RCY:H1MA | 2:A:176:RCY:C1X  | 1.36     | 1.51        | 89     | 1     |
| 2:A:176:RCY:C1M  | 2:A:187:RCY:O1G  | 1.35     | 1.73        | 10     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:176:RCY:O1J  | 1.35     | 1.70        | 11     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:C1Y  | 1.35     | 2.01        | 41     | 4     |
| 1:A:71:GLU:OE2   | 2:A:168:RCY:C1V  | 1.35     | 1.74        | 93     | 3     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:C1Q  | 1.35     | 1.78        | 92     | 2     |
| 2:A:150:RCY:C1Y  | 2:A:173:RCY:N1V  | 1.35     | 1.69        | 3      | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:H1M  | 1.35     | 1.49        | 69     | 5     |
| 2:A:130:RCY:O1J  | 2:A:160:RCY:H1CB | 1.35     | 1.19        | 23     | 2     |
| 2:A:150:RCY:C1Z  | 2:A:187:RCY:C1V  | 1.35     | 1.80        | 37     | 3     |
| 2:A:138:RCY:C1C  | 2:A:160:RCY:C1V  | 1.35     | 2.00        | 27     | 1     |
| 2:A:173:RCY:H1YB | 2:A:187:RCY:C1V  | 1.35     | 1.31        | 64     | 1     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:C1C  | 1.35     | 2.05        | 8      | 1     |
| 1:A:71:GLU:HB3   | 2:A:173:RCY:O1H  | 1.35     | 1.21        | 89     | 1     |
| 2:A:110:RCY:O1J  | 2:A:121:RCY:H1YA | 1.35     | 1.22        | 5      | 1     |
| 1:A:70:TRP:NE1   | 2:A:121:RCY:C1W  | 1.35     | 1.79        | 49     | 1     |
| 2:A:110:RCY:O1G  | 2:A:110:RCY:H1VB | 1.35     | 1.20        | 3      | 4     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:C1Q  | 1.35     | 1.49        | 38     | 3     |
| 2:A:130:RCY:H1CA | 2:A:130:RCY:O1G  | 1.35     | 1.21        | 100    | 6     |
| 1:A:62:THR:HG21  | 2:A:160:RCY:C1W  | 1.35     | 1.49        | 46     | 1     |
| 1:A:70:TRP:HB3   | 2:A:168:RCY:C1L  | 1.35     | 1.51        | 46     | 1     |
| 1:A:70:TRP:CA    | 2:A:173:RCY:C1Z  | 1.35     | 2.04        | 85     | 2     |
| 1:A:70:TRP:CE2   | 2:A:121:RCY:C1Y  | 1.35     | 2.07        | 49     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:H1U  | 1.35     | 1.49        | 77     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:C1C  | 1.35     | 2.05        | 95     | 2     |
| 1:A:65:THR:CG2   | 2:A:160:RCY:C1Z  | 1.35     | 2.05        | 100    | 1     |
| 2:A:160:RCY:H1Y  | 2:A:168:RCY:C1P  | 1.34     | 1.52        | 3      | 3     |
| 2:A:150:RCY:H1Z  | 2:A:187:RCY:C1V  | 1.34     | 1.52        | 26     | 1     |
| 2:A:168:RCY:C1W  | 2:A:173:RCY:C1V  | 1.34     | 1.84        | 45     | 3     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:C1U  | 1.34     | 1.48        | 52     | 2     |
| 1:A:69:PRO:CB    | 2:A:176:RCY:H1ZB | 1.34     | 1.50        | 66     | 1     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:H1VB | 1.34     | 1.51        | 67     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:C1M  | 1.34     | 2.05        | 70     | 1     |
| 1:A:65:THR:O     | 2:A:173:RCY:C1C  | 1.34     | 1.72        | 71     | 1     |
| 2:A:168:RCY:O1G  | 2:A:168:RCY:H1VB | 1.34     | 1.22        | 18     | 7     |
| 1:A:69:PRO:O     | 2:A:173:RCY:C1M  | 1.34     | 1.67        | 76     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:176:RCY:C1M  | 1.34     | 2.10        | 85     | 1     |
| 2:A:176:RCY:C1U  | 2:A:187:RCY:C1Z  | 1.34     | 2.05        | 5      | 1     |
| 1:A:71:GLU:HA    | 2:A:173:RCY:O1G  | 1.34     | 1.19        | 83     | 2     |
| 2:A:168:RCY:C1S  | 2:A:173:RCY:C1Z  | 1.34     | 2.06        | 39     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:73:CYS:HB2   | 2:A:176:RCY:C1Z  | 1.34     | 1.48        | 58     | 2     |
| 2:A:121:RCY:H1CA | 2:A:121:RCY:O1G  | 1.34     | 1.20        | 98     | 4     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:H1M  | 1.34     | 1.33        | 89     | 2     |
| 1:A:71:GLU:C     | 2:A:168:RCY:H1MA | 1.34     | 1.16        | 91     | 1     |
| 1:A:63:ASP:O     | 2:A:168:RCY:C1V  | 1.34     | 1.76        | 5      | 1     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:H1V  | 1.34     | 1.52        | 26     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:C1V  | 1.34     | 1.99        | 56     | 2     |
| 2:A:168:RCY:C1Q  | 2:A:168:RCY:C1P  | 1.34     | 2.06        | 79     | 1     |
| 2:A:150:RCY:C1U  | 2:A:187:RCY:H1V  | 1.34     | 1.50        | 89     | 1     |
| 1:A:78:LEU:CG    | 2:A:176:RCY:C1M  | 1.34     | 1.99        | 91     | 1     |
| 1:A:74:ASN:OD1   | 2:A:173:RCY:C1L  | 1.34     | 1.74        | 2      | 1     |
| 2:A:173:RCY:O1H  | 2:A:187:RCY:H1C  | 1.34     | 1.22        | 7      | 1     |
| 1:A:65:THR:O     | 2:A:138:RCY:C1C  | 1.34     | 1.75        | 38     | 1     |
| 1:A:75:HIS:CD2   | 2:A:173:RCY:C1Z  | 1.34     | 2.08        | 42     | 1     |
| 1:A:74:ASN:O     | 2:A:176:RCY:C1C  | 1.34     | 1.72        | 62     | 1     |
| 1:A:75:HIS:O     | 2:A:176:RCY:C1Q  | 1.34     | 1.74        | 84     | 2     |
| 1:A:63:ASP:CB    | 2:A:130:RCY:C1Y  | 1.34     | 1.96        | 73     | 1     |
| 1:A:71:GLU:CG    | 2:A:176:RCY:H1YA | 1.34     | 1.50        | 92     | 1     |
| 2:A:160:RCY:H1V  | 2:A:168:RCY:C1M  | 1.34     | 1.15        | 92     | 1     |
| 1:A:70:TRP:O     | 2:A:187:RCY:H1V  | 1.33     | 1.20        | 16     | 1     |
| 1:A:70:TRP:CD1   | 2:A:187:RCY:C1Z  | 1.33     | 1.95        | 92     | 4     |
| 2:A:121:RCY:H1YB | 2:A:160:RCY:C1Z  | 1.33     | 1.50        | 44     | 1     |
| 1:A:74:ASN:OD1   | 2:A:176:RCY:C1P  | 1.33     | 1.75        | 78     | 1     |
| 2:A:121:RCY:O1H  | 2:A:121:RCY:H1CA | 1.33     | 1.18        | 69     | 7     |
| 2:A:121:RCY:O1G  | 2:A:121:RCY:H1VB | 1.33     | 1.21        | 12     | 9     |
| 2:A:138:RCY:H1VB | 2:A:150:RCY:C1C  | 1.33     | 1.41        | 10     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:C1M  | 1.33     | 2.02        | 37     | 2     |
| 1:A:68:CYS:SG    | 2:A:176:RCY:C1Z  | 1.33     | 2.16        | 77     | 1     |
| 1:A:70:TRP:NE1   | 2:A:176:RCY:H1YA | 1.33     | 1.38        | 80     | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:C1Z  | 1.33     | 1.74        | 5      | 2     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:H1Y  | 1.33     | 1.53        | 32     | 2     |
| 1:A:64:ILE:HD11  | 2:A:168:RCY:C1V  | 1.33     | 1.51        | 27     | 2     |
| 1:A:77:GLU:HA    | 2:A:176:RCY:C1P  | 1.33     | 1.47        | 55     | 1     |
| 1:A:60:CYS:H     | 2:A:160:RCY:C1V  | 1.33     | 1.34        | 83     | 1     |
| 1:A:69:PRO:CA    | 2:A:173:RCY:O1J  | 1.33     | 1.76        | 9      | 1     |
| 2:A:160:RCY:H1CA | 2:A:160:RCY:O1H  | 1.33     | 1.16        | 7      | 2     |
| 1:A:61:GLY:N     | 2:A:150:RCY:C1V  | 1.33     | 1.80        | 11     | 1     |
| 2:A:168:RCY:H1ZA | 2:A:176:RCY:O1J  | 1.33     | 1.19        | 11     | 1     |
| 1:A:73:CYS:N     | 2:A:173:RCY:O1H  | 1.33     | 1.60        | 56     | 4     |
| 1:A:68:CYS:SG    | 2:A:176:RCY:N1V  | 1.33     | 1.99        | 80     | 3     |
| 1:A:71:GLU:HB3   | 2:A:168:RCY:C1Q  | 1.33     | 1.35        | 91     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:130:RCY:C1Y  | 2:A:160:RCY:O1G  | 1.33     | 1.77        | 50     | 1     |
| 2:A:173:RCY:O1H  | 2:A:173:RCY:H1CA | 1.33     | 1.22        | 63     | 5     |
| 2:A:138:RCY:H1M  | 2:A:150:RCY:N1R  | 1.32     | 1.20        | 1      | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:C1U  | 1.32     | 2.06        | 38     | 3     |
| 2:A:176:RCY:O1H  | 2:A:176:RCY:H1CA | 1.32     | 1.21        | 51     | 4     |
| 1:A:67:ILE:HB    | 2:A:173:RCY:C1Y  | 1.32     | 1.52        | 80     | 1     |
| 1:A:70:TRP:CD1   | 2:A:187:RCY:H1ZA | 1.32     | 1.59        | 16     | 2     |
| 1:A:70:TRP:HB2   | 2:A:173:RCY:O1J  | 1.32     | 1.13        | 64     | 1     |
| 1:A:71:GLU:C     | 2:A:176:RCY:C1V  | 1.32     | 1.98        | 76     | 1     |
| 1:A:63:ASP:O     | 2:A:168:RCY:C1Z  | 1.32     | 1.75        | 78     | 1     |
| 1:A:70:TRP:CD2   | 2:A:176:RCY:C1Y  | 1.32     | 2.09        | 80     | 2     |
| 2:A:138:RCY:H1VA | 2:A:176:RCY:C1C  | 1.32     | 1.54        | 9      | 1     |
| 2:A:168:RCY:O1H  | 2:A:173:RCY:H1ZA | 1.32     | 1.16        | 17     | 2     |
| 2:A:176:RCY:H1VB | 2:A:187:RCY:C1V  | 1.32     | 1.53        | 26     | 2     |
| 1:A:75:HIS:O     | 2:A:176:RCY:C1Z  | 1.32     | 1.73        | 51     | 1     |
| 2:A:130:RCY:O1G  | 2:A:130:RCY:H1CA | 1.32     | 1.22        | 60     | 4     |
| 1:A:76:CYS:SG    | 2:A:160:RCY:H1YA | 1.32     | 1.64        | 73     | 1     |
| 2:A:160:RCY:H1VB | 2:A:160:RCY:O1G  | 1.32     | 1.25        | 56     | 7     |
| 1:A:68:CYS:C     | 2:A:173:RCY:O1G  | 1.32     | 1.68        | 10     | 2     |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:C1W  | 1.32     | 1.52        | 9      | 1     |
| 1:A:74:ASN:CA    | 2:A:173:RCY:O1G  | 1.32     | 1.71        | 15     | 2     |
| 2:A:130:RCY:O1G  | 2:A:130:RCY:H1ZB | 1.32     | 1.25        | 38     | 6     |
| 2:A:173:RCY:H1U  | 2:A:176:RCY:C1V  | 1.32     | 1.44        | 89     | 2     |
| 2:A:168:RCY:O1H  | 2:A:168:RCY:H1CA | 1.32     | 1.22        | 54     | 4     |
| 2:A:173:RCY:C1P  | 2:A:176:RCY:H1L  | 1.32     | 1.55        | 28     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:187:RCY:H1YA | 1.32     | 1.51        | 32     | 1     |
| 1:A:70:TRP:CD1   | 2:A:121:RCY:H1M  | 1.32     | 1.58        | 49     | 1     |
| 1:A:71:GLU:OE2   | 2:A:150:RCY:C1P  | 1.32     | 1.76        | 58     | 1     |
| 1:A:74:ASN:CA    | 2:A:176:RCY:O1G  | 1.32     | 1.74        | 78     | 1     |
| 2:A:150:RCY:C1S  | 2:A:160:RCY:H1YB | 1.32     | 1.53        | 85     | 1     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:O1H  | 1.31     | 1.78        | 58     | 2     |
| 1:A:67:ILE:CB    | 2:A:173:RCY:H1YB | 1.31     | 1.52        | 80     | 1     |
| 1:A:63:ASP:O     | 2:A:160:RCY:C1V  | 1.31     | 1.79        | 3      | 1     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:C1Y  | 1.31     | 2.01        | 54     | 2     |
| 2:A:138:RCY:H1VA | 2:A:173:RCY:O1J  | 1.31     | 1.23        | 15     | 1     |
| 1:A:64:ILE:HG21  | 2:A:150:RCY:C1V  | 1.31     | 1.56        | 16     | 1     |
| 1:A:60:CYS:CB    | 2:A:130:RCY:O1H  | 1.31     | 1.76        | 18     | 1     |
| 1:A:68:CYS:SG    | 2:A:168:RCY:H1SA | 1.31     | 1.64        | 25     | 1     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:H1VA | 1.31     | 1.56        | 27     | 1     |
| 2:A:138:RCY:H1ZA | 2:A:187:RCY:C1Y  | 1.31     | 1.53        | 32     | 3     |
| 2:A:121:RCY:O1G  | 2:A:121:RCY:H1ZB | 1.31     | 1.24        | 86     | 3     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:C1M  | 2:A:187:RCY:H1ZA | 1.31     | 1.48        | 84     | 1     |
| 1:A:68:CYS:SG    | 2:A:160:RCY:H1Z  | 1.31     | 1.65        | 19     | 1     |
| 2:A:173:RCY:H1CB | 2:A:176:RCY:C1L  | 1.31     | 1.54        | 36     | 2     |
| 2:A:138:RCY:C1Z  | 2:A:187:RCY:H1CB | 1.31     | 1.51        | 44     | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:C1C  | 1.31     | 1.78        | 89     | 1     |
| 2:A:160:RCY:O1J  | 2:A:187:RCY:C1Z  | 1.31     | 1.78        | 97     | 1     |
| 2:A:138:RCY:H1VB | 2:A:150:RCY:C1Y  | 1.31     | 1.54        | 1      | 1     |
| 2:A:150:RCY:O1G  | 2:A:150:RCY:H1CA | 1.31     | 1.23        | 60     | 7     |
| 1:A:71:GLU:OE2   | 2:A:176:RCY:H1CB | 1.31     | 1.11        | 44     | 2     |
| 1:A:71:GLU:CG    | 2:A:150:RCY:H1U  | 1.31     | 1.53        | 58     | 1     |
| 1:A:60:CYS:N     | 2:A:160:RCY:H1LA | 1.31     | 1.38        | 70     | 1     |
| 1:A:70:TRP:CB    | 2:A:173:RCY:H1ZA | 1.31     | 1.55        | 94     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:C1P  | 1.31     | 2.09        | 58     | 5     |
| 2:A:121:RCY:H1ZB | 2:A:121:RCY:O1H  | 1.31     | 1.24        | 50     | 8     |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:H1V  | 1.31     | 1.56        | 93     | 2     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:C1M  | 1.31     | 1.54        | 17     | 3     |
| 1:A:74:ASN:HA    | 2:A:173:RCY:O1G  | 1.31     | 1.11        | 27     | 2     |
| 2:A:130:RCY:H1CA | 2:A:160:RCY:O1J  | 1.31     | 1.21        | 16     | 1     |
| 2:A:138:RCY:C1P  | 2:A:150:RCY:H1M  | 1.31     | 1.55        | 23     | 2     |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:O1G  | 1.31     | 1.79        | 61     | 2     |
| 1:A:62:THR:CG2   | 2:A:160:RCY:O1G  | 1.31     | 1.78        | 82     | 1     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:C1Y  | 1.30     | 1.45        | 76     | 3     |
| 1:A:61:GLY:N     | 2:A:138:RCY:H1VB | 1.30     | 1.38        | 7      | 1     |
| 2:A:160:RCY:H1YB | 2:A:168:RCY:C1M  | 1.30     | 1.56        | 34     | 1     |
| 2:A:168:RCY:H1Y  | 2:A:173:RCY:C1P  | 1.30     | 1.54        | 91     | 2     |
| 2:A:168:RCY:C1C  | 2:A:176:RCY:C1Y  | 1.30     | 2.09        | 59     | 2     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:O1H  | 1.30     | 1.67        | 81     | 1     |
| 2:A:138:RCY:O1J  | 2:A:150:RCY:C1M  | 1.30     | 1.73        | 88     | 1     |
| 2:A:176:RCY:O1G  | 2:A:176:RCY:H1ZB | 1.30     | 1.16        | 61     | 4     |
| 2:A:176:RCY:H1ZA | 2:A:187:RCY:C1V  | 1.30     | 1.56        | 10     | 1     |
| 1:A:70:TRP:N     | 2:A:176:RCY:C1C  | 1.30     | 1.92        | 13     | 1     |
| 1:A:70:TRP:NE1   | 2:A:187:RCY:H1ZA | 1.30     | 1.37        | 92     | 2     |
| 2:A:168:RCY:C1S  | 2:A:173:RCY:H1ZA | 1.30     | 1.53        | 39     | 1     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:H1VB | 1.30     | 1.53        | 55     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:H1Z  | 1.30     | 1.52        | 60     | 1     |
| 1:A:77:GLU:CD    | 2:A:176:RCY:C1V  | 1.30     | 1.98        | 7      | 1     |
| 2:A:168:RCY:O1G  | 2:A:168:RCY:H1ZB | 1.30     | 1.25        | 65     | 5     |
| 1:A:70:TRP:HZ3   | 2:A:168:RCY:C1W  | 1.30     | 1.38        | 41     | 2     |
| 1:A:70:TRP:NE1   | 2:A:168:RCY:C1Y  | 1.30     | 1.92        | 37     | 1     |
| 2:A:173:RCY:H1YB | 2:A:187:RCY:C1Z  | 1.30     | 1.55        | 92     | 2     |
| 2:A:173:RCY:C1V  | 2:A:187:RCY:C1C  | 1.30     | 2.00        | 55     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:H1YB | 1.30     | 1.56        | 41     | 2     |
| 2:A:173:RCY:H1CA | 2:A:173:RCY:O1G  | 1.30     | 1.23        | 86     | 5     |
| 1:A:68:CYS:HA    | 2:A:168:RCY:C1L  | 1.30     | 1.32        | 75     | 3     |
| 1:A:70:TRP:NE1   | 2:A:168:RCY:H1YA | 1.30     | 1.36        | 37     | 1     |
| 2:A:160:RCY:C1V  | 2:A:168:RCY:C1V  | 1.30     | 2.00        | 48     | 2     |
| 2:A:176:RCY:C1M  | 2:A:187:RCY:C1U  | 1.30     | 2.01        | 96     | 2     |
| 2:A:173:RCY:H1VB | 2:A:187:RCY:C1V  | 1.30     | 1.57        | 55     | 1     |
| 2:A:130:RCY:O1G  | 2:A:130:RCY:H1VB | 1.30     | 1.24        | 71     | 9     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:N1R  | 1.30     | 1.38        | 69     | 3     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:C1Y  | 1.30     | 2.08        | 43     | 4     |
| 2:A:138:RCY:N1R  | 2:A:150:RCY:H1YA | 1.30     | 1.10        | 23     | 1     |
| 1:A:67:ILE:O     | 2:A:173:RCY:C1V  | 1.30     | 1.78        | 80     | 1     |
| 1:A:69:PRO:C     | 2:A:173:RCY:C1Z  | 1.30     | 2.00        | 85     | 1     |
| 2:A:176:RCY:H1ZB | 2:A:176:RCY:O1H  | 1.29     | 1.19        | 26     | 3     |
| 1:A:64:ILE:HG21  | 2:A:160:RCY:C1Y  | 1.29     | 1.54        | 49     | 1     |
| 1:A:71:GLU:CB    | 2:A:173:RCY:O1H  | 1.29     | 1.78        | 89     | 1     |
| 1:A:69:PRO:CA    | 2:A:168:RCY:H1MA | 1.29     | 1.28        | 5      | 1     |
| 1:A:68:CYS:HB3   | 2:A:160:RCY:C1Z  | 1.29     | 1.57        | 19     | 1     |
| 2:A:173:RCY:C1V  | 2:A:187:RCY:C1V  | 1.29     | 2.08        | 55     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:C1M  | 1.29     | 2.09        | 84     | 1     |
| 1:A:69:PRO:HD2   | 2:A:150:RCY:C1Y  | 1.29     | 1.57        | 85     | 1     |
| 2:A:187:RCY:O1G  | 2:A:187:RCY:H1CA | 1.29     | 1.20        | 4      | 1     |
| 2:A:173:RCY:O1G  | 2:A:176:RCY:C1C  | 1.29     | 1.79        | 11     | 3     |
| 1:A:59:GLY:HA2   | 2:A:160:RCY:C1L  | 1.29     | 1.58        | 28     | 2     |
| 1:A:74:ASN:OD1   | 2:A:176:RCY:H1V  | 1.29     | 1.20        | 44     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:160:RCY:C1P  | 1.29     | 2.11        | 50     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:C1C  | 1.29     | 1.91        | 69     | 1     |
| 1:A:72:ALA:N     | 2:A:168:RCY:H1MA | 1.29     | 1.37        | 91     | 1     |
| 1:A:71:GLU:HG3   | 2:A:168:RCY:N1R  | 1.29     | 1.39        | 93     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:H1U  | 1.29     | 1.56        | 52     | 3     |
| 1:A:66:VAL:HG13  | 2:A:121:RCY:O1G  | 1.29     | 1.26        | 34     | 1     |
| 2:A:168:RCY:O1J  | 2:A:187:RCY:C1V  | 1.29     | 1.80        | 70     | 2     |
| 2:A:176:RCY:O1G  | 2:A:187:RCY:H1M  | 1.29     | 1.19        | 60     | 1     |
| 1:A:59:GLY:N     | 2:A:160:RCY:C1P  | 1.29     | 1.91        | 78     | 2     |
| 1:A:71:GLU:HG2   | 2:A:173:RCY:O1G  | 1.29     | 1.28        | 17     | 1     |
| 1:A:70:TRP:HB2   | 2:A:176:RCY:C1Z  | 1.29     | 1.57        | 18     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:C1L  | 1.29     | 2.03        | 73     | 2     |
| 2:A:168:RCY:C1Y  | 2:A:173:RCY:C1Z  | 1.29     | 1.94        | 20     | 1     |
| 2:A:187:RCY:O1G  | 2:A:187:RCY:H1VB | 1.29     | 1.22        | 31     | 8     |
| 1:A:70:TRP:O     | 2:A:173:RCY:C1L  | 1.29     | 1.81        | 82     | 2     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:H1L  | 1.29     | 1.56        | 36     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:70:TRP:CD1   | 2:A:173:RCY:O1G  | 1.29     | 1.86        | 44     | 1     |
| 2:A:138:RCY:H1ZB | 2:A:187:RCY:C1Z  | 1.29     | 1.55        | 77     | 2     |
| 2:A:130:RCY:C1W  | 2:A:130:RCY:C1M  | 1.29     | 2.08        | 79     | 1     |
| 1:A:70:TRP:HB2   | 2:A:173:RCY:C1Y  | 1.29     | 1.58        | 85     | 1     |
| 2:A:173:RCY:H1MA | 2:A:176:RCY:C1U  | 1.29     | 1.58        | 89     | 1     |
| 1:A:64:ILE:HD13  | 2:A:160:RCY:C1M  | 1.28     | 1.57        | 1      | 2     |
| 1:A:64:ILE:CG1   | 2:A:168:RCY:H1ZA | 1.28     | 1.57        | 78     | 2     |
| 2:A:187:RCY:O1H  | 2:A:187:RCY:H1VB | 1.28     | 1.26        | 36     | 7     |
| 2:A:160:RCY:H1V  | 2:A:168:RCY:C1C  | 1.28     | 1.56        | 14     | 2     |
| 2:A:187:RCY:O1G  | 2:A:187:RCY:H1ZB | 1.28     | 1.24        | 50     | 4     |
| 1:A:70:TRP:CZ2   | 2:A:168:RCY:C1M  | 1.28     | 2.16        | 59     | 1     |
| 2:A:173:RCY:O1H  | 2:A:176:RCY:H1YA | 1.28     | 1.11        | 68     | 2     |
| 1:A:66:VAL:HG12  | 2:A:121:RCY:C1W  | 1.28     | 1.57        | 83     | 1     |
| 1:A:66:VAL:HG12  | 2:A:121:RCY:C1Z  | 1.28     | 1.56        | 89     | 1     |
| 1:A:64:ILE:HD11  | 2:A:168:RCY:O1J  | 1.28     | 1.23        | 4      | 1     |
| 1:A:60:CYS:N     | 2:A:160:RCY:H1L  | 1.28     | 1.40        | 28     | 2     |
| 1:A:70:TRP:CH2   | 2:A:168:RCY:H1L  | 1.28     | 1.51        | 48     | 1     |
| 1:A:73:CYS:CB    | 2:A:176:RCY:C1Z  | 1.28     | 2.10        | 58     | 1     |
| 2:A:168:RCY:C1V  | 2:A:176:RCY:C1Y  | 1.28     | 1.94        | 76     | 3     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:O1G  | 1.28     | 1.81        | 92     | 1     |
| 2:A:130:RCY:O1H  | 2:A:130:RCY:H1VB | 1.28     | 1.26        | 39     | 10    |
| 2:A:168:RCY:H1LA | 2:A:173:RCY:C1Z  | 1.28     | 1.48        | 11     | 4     |
| 1:A:62:THR:HG22  | 2:A:130:RCY:C1M  | 1.28     | 1.38        | 9      | 1     |
| 2:A:160:RCY:H1VB | 2:A:160:RCY:O1H  | 1.28     | 1.28        | 96     | 13    |
| 2:A:168:RCY:C1P  | 2:A:173:RCY:H1Y  | 1.28     | 1.58        | 62     | 2     |
| 2:A:168:RCY:H1MA | 2:A:173:RCY:O1J  | 1.28     | 1.25        | 60     | 2     |
| 1:A:70:TRP:HB2   | 2:A:150:RCY:C1U  | 1.28     | 0.98        | 34     | 1     |
| 1:A:63:ASP:C     | 2:A:168:RCY:H1LA | 1.28     | 1.49        | 59     | 1     |
| 2:A:168:RCY:O1G  | 2:A:187:RCY:H1Y  | 1.28     | 1.22        | 64     | 1     |
| 2:A:130:RCY:C1S  | 2:A:130:RCY:C1Q  | 1.28     | 2.10        | 79     | 1     |
| 2:A:168:RCY:H1M  | 2:A:173:RCY:O1J  | 1.28     | 1.21        | 100    | 1     |
| 2:A:168:RCY:H1Y  | 2:A:187:RCY:C1S  | 1.28     | 1.58        | 3      | 1     |
| 1:A:70:TRP:CE2   | 2:A:176:RCY:H1M  | 1.28     | 1.00        | 4      | 1     |
| 2:A:130:RCY:C1U  | 2:A:160:RCY:C1M  | 1.28     | 1.85        | 7      | 1     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:C1V  | 1.28     | 2.08        | 10     | 2     |
| 2:A:168:RCY:N1R  | 2:A:173:RCY:H1Z  | 1.28     | 1.42        | 10     | 1     |
| 2:A:173:RCY:H1M  | 2:A:176:RCY:C1P  | 1.28     | 1.59        | 38     | 1     |
| 2:A:150:RCY:C1V  | 2:A:187:RCY:H1ZA | 1.28     | 1.57        | 64     | 2     |
| 1:A:69:PRO:CD    | 2:A:150:RCY:C1Y  | 1.28     | 2.11        | 85     | 1     |
| 2:A:130:RCY:H1VA | 2:A:160:RCY:C1Q  | 1.28     | 1.57        | 8      | 1     |
| 2:A:150:RCY:O1G  | 2:A:150:RCY:H1ZB | 1.28     | 1.21        | 12     | 3     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:110:RCY:O1H  | 2:A:110:RCY:H1VB | 1.28     | 1.27        | 14     | 6     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:C1Y  | 1.28     | 1.82        | 78     | 5     |
| 2:A:168:RCY:H1Y  | 2:A:187:RCY:C1Z  | 1.28     | 1.50        | 21     | 2     |
| 1:A:71:GLU:CD    | 2:A:168:RCY:H1CB | 1.28     | 1.48        | 93     | 2     |
| 2:A:138:RCY:O1J  | 2:A:176:RCY:C1C  | 1.28     | 1.82        | 51     | 1     |
| 1:A:65:THR:CB    | 2:A:168:RCY:O1G  | 1.28     | 1.80        | 80     | 1     |
| 1:A:69:PRO:C     | 2:A:187:RCY:H1CA | 1.27     | 1.48        | 7      | 1     |
| 2:A:160:RCY:O1G  | 2:A:168:RCY:C1Y  | 1.27     | 1.82        | 9      | 1     |
| 2:A:160:RCY:O1G  | 2:A:160:RCY:H1VB | 1.27     | 1.21        | 81     | 4     |
| 2:A:150:RCY:H1CA | 2:A:150:RCY:O1G  | 1.27     | 1.19        | 61     | 3     |
| 2:A:173:RCY:H1CB | 2:A:187:RCY:O1J  | 1.27     | 1.26        | 55     | 2     |
| 2:A:121:RCY:H1VA | 2:A:168:RCY:C1Y  | 1.27     | 1.56        | 49     | 1     |
| 1:A:69:PRO:CG    | 2:A:150:RCY:H1Y  | 1.27     | 1.56        | 85     | 1     |
| 2:A:168:RCY:C1C  | 2:A:173:RCY:C1M  | 1.27     | 1.96        | 99     | 1     |
| 2:A:130:RCY:C1X  | 2:A:160:RCY:C1M  | 1.27     | 2.12        | 7      | 1     |
| 2:A:176:RCY:H1VB | 2:A:176:RCY:O1H  | 1.27     | 1.28        | 45     | 7     |
| 2:A:168:RCY:C1L  | 2:A:173:RCY:H1M  | 1.27     | 1.59        | 49     | 2     |
| 1:A:69:PRO:CD    | 2:A:168:RCY:H1L  | 1.27     | 1.59        | 60     | 2     |
| 1:A:59:GLY:CA    | 2:A:160:RCY:C1L  | 1.27     | 2.12        | 57     | 3     |
| 2:A:173:RCY:H1CB | 2:A:176:RCY:C1Q  | 1.27     | 1.57        | 34     | 1     |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:C1W  | 1.27     | 1.48        | 35     | 1     |
| 2:A:150:RCY:H1ZA | 2:A:187:RCY:C1X  | 1.27     | 1.50        | 37     | 1     |
| 1:A:68:CYS:HB3   | 2:A:176:RCY:C1Y  | 1.27     | 1.34        | 80     | 1     |
| 1:A:60:CYS:HA    | 2:A:168:RCY:O1G  | 1.27     | 1.23        | 95     | 1     |
| 1:A:60:CYS:HB3   | 2:A:130:RCY:O1H  | 1.27     | 1.09        | 18     | 1     |
| 2:A:150:RCY:O1G  | 2:A:187:RCY:C1V  | 1.27     | 1.81        | 18     | 2     |
| 1:A:67:ILE:CG2   | 2:A:173:RCY:C1C  | 1.27     | 2.10        | 31     | 1     |
| 2:A:173:RCY:H1M  | 2:A:187:RCY:O1J  | 1.27     | 1.30        | 89     | 2     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:C1M  | 1.27     | 2.11        | 1      | 3     |
| 2:A:168:RCY:H1VB | 2:A:168:RCY:O1H  | 1.27     | 1.28        | 49     | 8     |
| 1:A:69:PRO:CD    | 2:A:168:RCY:H1LA | 1.27     | 1.56        | 78     | 4     |
| 2:A:138:RCY:H1C  | 2:A:173:RCY:C1Z  | 1.27     | 1.59        | 15     | 2     |
| 2:A:168:RCY:H1VB | 2:A:168:RCY:O1G  | 1.27     | 1.25        | 55     | 3     |
| 2:A:176:RCY:C1U  | 2:A:187:RCY:H1M  | 1.27     | 1.58        | 26     | 1     |
| 1:A:59:GLY:C     | 2:A:160:RCY:C1L  | 1.27     | 2.03        | 57     | 6     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:H1M  | 1.27     | 1.62        | 49     | 2     |
| 1:A:70:TRP:HZ2   | 2:A:168:RCY:C1M  | 1.27     | 1.40        | 59     | 1     |
| 1:A:74:ASN:HA    | 2:A:176:RCY:C1P  | 1.27     | 1.59        | 78     | 1     |
| 1:A:66:VAL:CB    | 2:A:121:RCY:H1YA | 1.27     | 1.59        | 83     | 1     |
| 1:A:71:GLU:OE2   | 2:A:173:RCY:C1C  | 1.27     | 1.81        | 89     | 1     |
| 1:A:73:CYS:N     | 2:A:173:RCY:H1S  | 1.27     | 1.07        | 76     | 6     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:C1X  | 2:A:173:RCY:H1YA | 1.27     | 1.49        | 21     | 1     |
| 1:A:63:ASP:CB    | 2:A:160:RCY:C1C  | 1.27     | 2.12        | 63     | 2     |
| 1:A:70:TRP:CE2   | 2:A:187:RCY:C1Z  | 1.27     | 2.16        | 76     | 2     |
| 2:A:130:RCY:C1C  | 2:A:160:RCY:C1L  | 1.26     | 2.13        | 66     | 2     |
| 2:A:173:RCY:O1G  | 2:A:176:RCY:H1C  | 1.26     | 1.09        | 11     | 2     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:H1M  | 1.26     | 1.60        | 41     | 2     |
| 1:A:66:VAL:O     | 2:A:168:RCY:H1U  | 1.26     | 1.23        | 51     | 2     |
| 1:A:72:ALA:C     | 2:A:168:RCY:C1Z  | 1.26     | 1.78        | 57     | 1     |
| 2:A:138:RCY:H1Z  | 2:A:187:RCY:O1G  | 1.26     | 1.28        | 71     | 1     |
| 1:A:63:ASP:OD2   | 2:A:160:RCY:H1ZA | 1.26     | 1.17        | 73     | 1     |
| 1:A:71:GLU:HA    | 2:A:168:RCY:C1V  | 1.26     | 1.36        | 76     | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:H1Y  | 1.26     | 1.47        | 2      | 3     |
| 2:A:168:RCY:H1C  | 2:A:176:RCY:C1Z  | 1.26     | 1.54        | 3      | 1     |
| 2:A:176:RCY:C1W  | 2:A:187:RCY:C1Y  | 1.26     | 2.13        | 5      | 1     |
| 2:A:150:RCY:H1YB | 2:A:187:RCY:C1Y  | 1.26     | 1.53        | 41     | 2     |
| 2:A:176:RCY:O1G  | 2:A:187:RCY:H1MA | 1.26     | 1.19        | 26     | 1     |
| 1:A:71:GLU:O     | 2:A:173:RCY:C1S  | 1.26     | 1.82        | 76     | 2     |
| 2:A:176:RCY:H1CA | 2:A:176:RCY:O1G  | 1.26     | 1.25        | 46     | 5     |
| 1:A:59:GLY:HA2   | 2:A:160:RCY:O1G  | 1.26     | 1.23        | 70     | 2     |
| 1:A:66:VAL:HB    | 2:A:160:RCY:O1H  | 1.26     | 1.29        | 68     | 1     |
| 1:A:69:PRO:HA    | 2:A:176:RCY:C1V  | 1.26     | 1.58        | 72     | 1     |
| 2:A:173:RCY:H1Y  | 2:A:187:RCY:C1U  | 1.26     | 1.53        | 77     | 1     |
| 1:A:65:THR:OG1   | 2:A:160:RCY:H1ZA | 1.26     | 1.16        | 100    | 1     |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:O1H  | 1.26     | 1.16        | 81     | 2     |
| 2:A:110:RCY:O1G  | 2:A:110:RCY:H1ZB | 1.26     | 1.23        | 56     | 9     |
| 1:A:68:CYS:HB2   | 2:A:160:RCY:C1Y  | 1.26     | 1.56        | 19     | 1     |
| 2:A:138:RCY:C1L  | 2:A:150:RCY:O1H  | 1.26     | 1.76        | 23     | 1     |
| 2:A:138:RCY:C1Q  | 2:A:150:RCY:C1P  | 1.26     | 2.13        | 41     | 1     |
| 1:A:64:ILE:CG1   | 2:A:160:RCY:H1CA | 1.26     | 1.60        | 48     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:C1M  | 1.26     | 2.13        | 52     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:C1Q  | 1.26     | 2.08        | 60     | 2     |
| 2:A:138:RCY:H1Z  | 2:A:187:RCY:C1P  | 1.26     | 1.60        | 71     | 1     |
| 1:A:70:TRP:CE2   | 2:A:176:RCY:C1Y  | 1.26     | 2.18        | 80     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:C1V  | 1.26     | 2.13        | 81     | 1     |
| 1:A:71:GLU:CD    | 2:A:130:RCY:H1MA | 1.26     | 1.46        | 94     | 1     |
| 2:A:130:RCY:O1H  | 2:A:130:RCY:H1ZB | 1.26     | 1.29        | 66     | 3     |
| 2:A:110:RCY:H1ZB | 2:A:110:RCY:O1H  | 1.26     | 1.21        | 37     | 3     |
| 2:A:160:RCY:C1P  | 2:A:168:RCY:C1Y  | 1.26     | 2.13        | 9      | 1     |
| 2:A:176:RCY:H1YA | 2:A:187:RCY:C1V  | 1.26     | 1.60        | 27     | 1     |
| 1:A:63:ASP:O     | 2:A:168:RCY:H1LA | 1.26     | 1.13        | 59     | 1     |
| 2:A:130:RCY:O1J  | 2:A:160:RCY:H1VA | 1.26     | 1.21        | 67     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:N1V  | 1.26     | 1.93        | 92     | 1     |
| 2:A:150:RCY:H1ZB | 2:A:150:RCY:O1H  | 1.26     | 1.31        | 43     | 8     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:O1J  | 1.26     | 1.84        | 9      | 3     |
| 2:A:173:RCY:O1G  | 2:A:173:RCY:H1VB | 1.26     | 1.31        | 60     | 3     |
| 2:A:150:RCY:O1H  | 2:A:150:RCY:H1CA | 1.26     | 1.18        | 81     | 6     |
| 1:A:62:THR:OG1   | 2:A:168:RCY:H1L  | 1.26     | 1.29        | 23     | 1     |
| 2:A:150:RCY:O1J  | 2:A:187:RCY:C1M  | 1.26     | 1.83        | 59     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:150:RCY:C1P  | 1.26     | 2.09        | 98     | 3     |
| 2:A:173:RCY:H1MA | 2:A:176:RCY:C1Y  | 1.26     | 1.57        | 77     | 2     |
| 2:A:130:RCY:C1M  | 2:A:130:RCY:C1C  | 1.26     | 2.12        | 79     | 1     |
| 2:A:138:RCY:H1ZB | 2:A:150:RCY:C1P  | 1.26     | 1.60        | 81     | 1     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:C1Z  | 1.26     | 2.09        | 87     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:187:RCY:C1Y  | 1.25     | 2.13        | 9      | 6     |
| 2:A:168:RCY:C1W  | 2:A:187:RCY:H1S  | 1.25     | 1.52        | 3      | 1     |
| 1:A:68:CYS:CA    | 2:A:168:RCY:O1H  | 1.25     | 1.76        | 66     | 4     |
| 1:A:61:GLY:O     | 2:A:150:RCY:H1M  | 1.25     | 1.21        | 11     | 1     |
| 1:A:70:TRP:CE2   | 2:A:168:RCY:C1Z  | 1.25     | 2.18        | 24     | 1     |
| 2:A:176:RCY:C1X  | 2:A:187:RCY:H1VA | 1.25     | 1.61        | 33     | 1     |
| 1:A:71:GLU:CD    | 2:A:176:RCY:H1CB | 1.25     | 1.49        | 37     | 2     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:O1J  | 1.25     | 1.88        | 41     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:173:RCY:H1ZA | 1.25     | 1.57        | 41     | 2     |
| 1:A:70:TRP:CD1   | 2:A:173:RCY:C1Y  | 1.25     | 2.15        | 84     | 1     |
| 1:A:64:ILE:CD1   | 2:A:187:RCY:H1M  | 1.25     | 1.58        | 85     | 1     |
| 1:A:69:PRO:CA    | 2:A:168:RCY:C1M  | 1.25     | 1.86        | 5      | 1     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:C1V  | 1.25     | 1.59        | 62     | 2     |
| 2:A:173:RCY:O1G  | 2:A:176:RCY:H1VB | 1.25     | 1.29        | 19     | 2     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:H1YB | 1.25     | 1.60        | 35     | 1     |
| 2:A:150:RCY:H1YA | 2:A:187:RCY:C1Z  | 1.25     | 1.61        | 41     | 1     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:C1Y  | 1.25     | 1.59        | 51     | 1     |
| 1:A:70:TRP:CB    | 2:A:168:RCY:H1LA | 1.25     | 1.60        | 46     | 2     |
| 2:A:110:RCY:C1V  | 2:A:121:RCY:H1M  | 1.25     | 1.60        | 5      | 1     |
| 2:A:187:RCY:H1CA | 2:A:187:RCY:O1G  | 1.25     | 1.25        | 90     | 5     |
| 1:A:60:CYS:N     | 2:A:160:RCY:O1H  | 1.25     | 1.68        | 91     | 4     |
| 1:A:68:CYS:SG    | 2:A:176:RCY:O1J  | 1.25     | 1.95        | 22     | 2     |
| 2:A:160:RCY:H1V  | 2:A:168:RCY:C1V  | 1.25     | 1.29        | 48     | 2     |
| 2:A:168:RCY:H1CB | 2:A:176:RCY:C1Y  | 1.25     | 1.62        | 59     | 1     |
| 2:A:150:RCY:H1CB | 2:A:187:RCY:C1Y  | 1.25     | 1.62        | 81     | 2     |
| 2:A:173:RCY:H1YA | 2:A:176:RCY:C1M  | 1.25     | 1.61        | 99     | 2     |
| 1:A:70:TRP:N     | 2:A:173:RCY:C1V  | 1.25     | 1.77        | 64     | 1     |
| 1:A:71:GLU:OE2   | 2:A:173:RCY:H1CB | 1.25     | 1.08        | 89     | 1     |
| 2:A:176:RCY:C1M  | 2:A:187:RCY:O1H  | 1.25     | 1.66        | 3      | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:C1P  | 2:A:173:RCY:C1Z  | 1.25     | 2.13        | 10     | 2     |
| 2:A:187:RCY:O1H  | 2:A:187:RCY:H1CA | 1.25     | 1.21        | 100    | 6     |
| 2:A:138:RCY:C1Q  | 2:A:150:RCY:H1V  | 1.25     | 1.61        | 19     | 1     |
| 1:A:68:CYS:N     | 2:A:168:RCY:H1S  | 1.25     | 1.23        | 51     | 7     |
| 1:A:71:GLU:C     | 2:A:173:RCY:O1H  | 1.25     | 1.74        | 67     | 3     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:C1V  | 1.25     | 2.20        | 94     | 2     |
| 2:A:168:RCY:C1U  | 2:A:176:RCY:H1YA | 1.25     | 1.52        | 59     | 1     |
| 2:A:130:RCY:C1V  | 2:A:160:RCY:O1J  | 1.25     | 1.84        | 64     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:C1W  | 1.25     | 1.60        | 78     | 1     |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:C1Q  | 1.25     | 1.60        | 81     | 1     |
| 2:A:173:RCY:C1W  | 2:A:176:RCY:H1VA | 1.25     | 1.54        | 31     | 2     |
| 2:A:138:RCY:O1H  | 2:A:138:RCY:H1VB | 1.25     | 1.27        | 94     | 5     |
| 1:A:68:CYS:O     | 2:A:168:RCY:H1S  | 1.25     | 1.07        | 83     | 3     |
| 2:A:138:RCY:H1YB | 2:A:150:RCY:N1R  | 1.25     | 0.88        | 60     | 1     |
| 1:A:70:TRP:CD1   | 2:A:176:RCY:H1U  | 1.25     | 1.65        | 62     | 1     |
| 2:A:168:RCY:C1M  | 2:A:187:RCY:O1J  | 1.25     | 1.83        | 64     | 3     |
| 2:A:150:RCY:H1VB | 2:A:150:RCY:O1H  | 1.24     | 1.29        | 1      | 10    |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:C1W  | 1.24     | 2.15        | 81     | 4     |
| 2:A:110:RCY:H1VB | 2:A:110:RCY:O1H  | 1.24     | 1.27        | 80     | 5     |
| 1:A:60:CYS:C     | 2:A:138:RCY:C1V  | 1.24     | 2.03        | 7      | 1     |
| 1:A:74:ASN:O     | 2:A:173:RCY:H1VB | 1.24     | 1.08        | 15     | 1     |
| 1:A:70:TRP:NE1   | 2:A:168:RCY:H1ZB | 1.24     | 1.45        | 24     | 1     |
| 1:A:76:CYS:CA    | 2:A:173:RCY:C1C  | 1.24     | 2.13        | 29     | 1     |
| 1:A:77:GLU:OE2   | 2:A:173:RCY:H1L  | 1.24     | 1.32        | 33     | 1     |
| 1:A:70:TRP:O     | 2:A:173:RCY:H1LA | 1.24     | 1.06        | 82     | 2     |
| 2:A:130:RCY:O1J  | 2:A:160:RCY:H1C  | 1.24     | 1.20        | 64     | 2     |
| 2:A:160:RCY:C1W  | 2:A:168:RCY:H1U  | 1.24     | 1.40        | 52     | 1     |
| 1:A:64:ILE:CG1   | 2:A:160:RCY:H1VA | 1.24     | 1.62        | 54     | 1     |
| 1:A:65:THR:HG21  | 2:A:160:RCY:C1Y  | 1.24     | 1.60        | 55     | 1     |
| 1:A:70:TRP:C     | 2:A:173:RCY:H1V  | 1.24     | 1.36        | 78     | 1     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:C1Z  | 1.24     | 1.90        | 9      | 2     |
| 1:A:70:TRP:N     | 2:A:168:RCY:H1L  | 1.24     | 1.45        | 28     | 2     |
| 2:A:173:RCY:C1P  | 2:A:176:RCY:C1L  | 1.24     | 2.11        | 28     | 1     |
| 2:A:121:RCY:O1H  | 2:A:121:RCY:H1VB | 1.24     | 1.31        | 51     | 2     |
| 2:A:168:RCY:C1Q  | 2:A:176:RCY:H1YB | 1.24     | 1.62        | 59     | 1     |
| 1:A:63:ASP:CB    | 2:A:160:RCY:H1C  | 1.24     | 1.58        | 63     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:160:RCY:C1Q  | 1.24     | 2.08        | 88     | 1     |
| 2:A:173:RCY:C1P  | 2:A:176:RCY:C1C  | 1.24     | 2.16        | 64     | 2     |
| 2:A:138:RCY:C1L  | 2:A:160:RCY:H1ZB | 1.24     | 1.29        | 18     | 1     |
| 1:A:70:TRP:CD1   | 2:A:173:RCY:C1C  | 1.24     | 2.20        | 38     | 2     |
| 2:A:150:RCY:C1X  | 2:A:160:RCY:H1V  | 1.24     | 1.60        | 42     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:70:TRP:HA    | 2:A:168:RCY:C1C  | 1.24     | 1.60        | 57     | 1     |
| 1:A:63:ASP:CA    | 2:A:168:RCY:H1VA | 1.24     | 1.61        | 5      | 1     |
| 2:A:130:RCY:C1Z  | 2:A:160:RCY:H1YA | 1.24     | 1.59        | 7      | 1     |
| 2:A:138:RCY:C1Y  | 2:A:176:RCY:O1J  | 1.24     | 1.84        | 9      | 1     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:C1C  | 1.24     | 2.13        | 10     | 2     |
| 2:A:130:RCY:O1H  | 2:A:130:RCY:H1CA | 1.24     | 1.30        | 29     | 4     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:C1S  | 1.24     | 2.01        | 34     | 2     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:C1C  | 1.24     | 2.14        | 97     | 2     |
| 1:A:68:CYS:HA    | 2:A:168:RCY:O1H  | 1.24     | 1.05        | 87     | 3     |
| 1:A:77:GLU:HA    | 2:A:176:RCY:O1G  | 1.24     | 1.02        | 55     | 1     |
| 2:A:173:RCY:H1VA | 2:A:187:RCY:O1J  | 1.24     | 1.24        | 67     | 1     |
| 2:A:173:RCY:H1YB | 2:A:176:RCY:C1C  | 1.24     | 1.63        | 86     | 2     |
| 2:A:173:RCY:N1R  | 2:A:176:RCY:C1V  | 1.24     | 2.01        | 76     | 2     |
| 1:A:66:VAL:O     | 2:A:168:RCY:C1V  | 1.24     | 1.86        | 27     | 3     |
| 2:A:138:RCY:H1S  | 2:A:160:RCY:C1U  | 1.24     | 1.63        | 27     | 1     |
| 2:A:176:RCY:C1X  | 2:A:187:RCY:C1V  | 1.24     | 2.13        | 33     | 1     |
| 2:A:121:RCY:C1Y  | 2:A:176:RCY:H1LA | 1.24     | 1.63        | 35     | 1     |
| 2:A:168:RCY:H1V  | 2:A:173:RCY:C1X  | 1.24     | 1.61        | 45     | 1     |
| 1:A:78:LEU:HD11  | 2:A:176:RCY:C1U  | 1.24     | 1.63        | 56     | 1     |
| 1:A:70:TRP:CE3   | 2:A:187:RCY:H1ZA | 1.24     | 1.68        | 76     | 1     |
| 2:A:168:RCY:C1Q  | 2:A:168:RCY:C1L  | 1.24     | 2.16        | 79     | 1     |
| 2:A:168:RCY:H1CA | 2:A:168:RCY:O1H  | 1.24     | 1.23        | 89     | 1     |
| 1:A:69:PRO:CG    | 2:A:150:RCY:H1ZB | 1.24     | 1.62        | 92     | 1     |
| 2:A:110:RCY:C1Y  | 2:A:121:RCY:C1V  | 1.23     | 2.15        | 81     | 2     |
| 1:A:70:TRP:N     | 2:A:173:RCY:C1P  | 1.23     | 2.01        | 6      | 1     |
| 2:A:150:RCY:O1J  | 2:A:160:RCY:C1Z  | 1.23     | 1.85        | 87     | 2     |
| 2:A:173:RCY:H1VB | 2:A:173:RCY:O1G  | 1.23     | 1.32        | 100    | 4     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:H1Z  | 1.23     | 1.65        | 41     | 1     |
| 1:A:69:PRO:CB    | 2:A:168:RCY:H1YA | 1.23     | 1.62        | 66     | 1     |
| 1:A:62:THR:HG21  | 2:A:160:RCY:O1G  | 1.23     | 1.05        | 82     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:C1S  | 1.23     | 2.17        | 92     | 1     |
| 2:A:138:RCY:H1YB | 2:A:150:RCY:C1Y  | 1.23     | 1.49        | 89     | 2     |
| 2:A:138:RCY:C1V  | 2:A:187:RCY:H1ZA | 1.23     | 1.62        | 49     | 2     |
| 1:A:70:TRP:HA    | 2:A:173:RCY:O1H  | 1.23     | 1.09        | 14     | 1     |
| 2:A:138:RCY:C1L  | 2:A:160:RCY:C1Z  | 1.23     | 2.10        | 18     | 1     |
| 1:A:67:ILE:CB    | 2:A:150:RCY:C1V  | 1.23     | 2.08        | 31     | 1     |
| 1:A:62:THR:HB    | 2:A:160:RCY:C1C  | 1.23     | 1.38        | 46     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:H1CB | 1.23     | 1.63        | 78     | 1     |
| 2:A:110:RCY:H1YB | 2:A:121:RCY:C1C  | 1.23     | 1.55        | 81     | 1     |
| 1:A:71:GLU:N     | 2:A:173:RCY:C1V  | 1.23     | 2.01        | 84     | 1     |
| 2:A:176:RCY:C1Z  | 2:A:187:RCY:H1V  | 1.23     | 1.62        | 10     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:150:RCY:O1G  | 2:A:150:RCY:H1VB | 1.23     | 1.28        | 68     | 7     |
| 2:A:138:RCY:C1Z  | 2:A:187:RCY:C1Y  | 1.23     | 2.11        | 32     | 3     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:O1J  | 1.23     | 1.86        | 97     | 2     |
| 1:A:70:TRP:CH2   | 2:A:121:RCY:O1H  | 1.23     | 1.85        | 78     | 1     |
| 1:A:69:PRO:O     | 2:A:173:RCY:H1LA | 1.23     | 1.01        | 6      | 1     |
| 1:A:70:TRP:HB2   | 2:A:168:RCY:C1Q  | 1.23     | 1.63        | 20     | 1     |
| 1:A:71:GLU:HB3   | 2:A:168:RCY:O1H  | 1.23     | 1.04        | 37     | 2     |
| 2:A:176:RCY:C1M  | 2:A:187:RCY:H1U  | 1.23     | 1.60        | 96     | 2     |
| 1:A:69:PRO:C     | 2:A:173:RCY:C1L  | 1.23     | 2.06        | 6      | 1     |
| 2:A:150:RCY:O1G  | 2:A:150:RCY:C1Z  | 1.23     | 1.86        | 18     | 4     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:C1Q  | 1.23     | 2.15        | 38     | 3     |
| 2:A:138:RCY:O1J  | 2:A:150:RCY:H1ZA | 1.23     | 1.28        | 35     | 1     |
| 1:A:75:HIS:O     | 2:A:176:RCY:H1ZB | 1.23     | 1.06        | 51     | 1     |
| 1:A:70:TRP:O     | 2:A:150:RCY:C1Z  | 1.23     | 1.85        | 58     | 1     |
| 2:A:168:RCY:N1V  | 2:A:187:RCY:C1M  | 1.23     | 1.98        | 70     | 1     |
| 2:A:130:RCY:C1C  | 2:A:160:RCY:C1M  | 1.22     | 2.16        | 7      | 1     |
| 2:A:173:RCY:O1H  | 2:A:173:RCY:H1VB | 1.22     | 1.34        | 28     | 5     |
| 1:A:67:ILE:CG1   | 2:A:176:RCY:H1V  | 1.22     | 1.64        | 16     | 1     |
| 1:A:67:ILE:HA    | 2:A:176:RCY:C1V  | 1.22     | 1.63        | 16     | 1     |
| 2:A:138:RCY:O1H  | 2:A:138:RCY:H1ZB | 1.22     | 1.26        | 40     | 6     |
| 1:A:67:ILE:HG23  | 2:A:173:RCY:O1G  | 1.22     | 1.29        | 21     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:C1Y  | 1.22     | 2.17        | 31     | 1     |
| 1:A:70:TRP:HE3   | 2:A:168:RCY:O1G  | 1.22     | 0.85        | 94     | 2     |
| 2:A:130:RCY:H1Y  | 2:A:160:RCY:N1R  | 1.22     | 1.47        | 50     | 1     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:N1R  | 1.22     | 2.01        | 88     | 1     |
| 1:A:74:ASN:OD1   | 2:A:173:RCY:H1L  | 1.22     | 1.03        | 2      | 1     |
| 2:A:160:RCY:H1CA | 2:A:160:RCY:O1G  | 1.22     | 1.30        | 29     | 2     |
| 1:A:71:GLU:CA    | 2:A:173:RCY:O1H  | 1.22     | 1.87        | 67     | 3     |
| 1:A:76:CYS:HB2   | 2:A:173:RCY:O1G  | 1.22     | 1.24        | 38     | 2     |
| 1:A:68:CYS:CA    | 2:A:168:RCY:H1LA | 1.22     | 1.55        | 30     | 4     |
| 1:A:72:ALA:HB1   | 2:A:173:RCY:N1R  | 1.22     | 1.48        | 30     | 2     |
| 2:A:138:RCY:O1G  | 2:A:150:RCY:H1MA | 1.22     | 1.34        | 30     | 1     |
| 2:A:138:RCY:H1C  | 2:A:160:RCY:C1L  | 1.22     | 1.60        | 73     | 1     |
| 1:A:65:THR:CG2   | 2:A:160:RCY:H1ZA | 1.22     | 1.59        | 100    | 1     |
| 1:A:69:PRO:HA    | 2:A:168:RCY:C1M  | 1.22     | 1.49        | 5      | 1     |
| 2:A:138:RCY:C1C  | 2:A:187:RCY:C1M  | 1.22     | 2.17        | 11     | 1     |
| 2:A:138:RCY:H1L  | 2:A:160:RCY:C1Z  | 1.22     | 1.61        | 18     | 1     |
| 2:A:130:RCY:H1VB | 2:A:130:RCY:O1G  | 1.22     | 1.31        | 32     | 1     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:C1M  | 1.22     | 2.17        | 52     | 3     |
| 2:A:176:RCY:H1CA | 2:A:176:RCY:O1H  | 1.22     | 1.33        | 66     | 1     |
| 2:A:173:RCY:C1Q  | 2:A:176:RCY:H1M  | 1.22     | 1.63        | 67     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:O1J  | 1.22     | 1.34        | 85     | 2     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:O1J  | 1.22     | 1.78        | 56     | 3     |
| 2:A:168:RCY:C1L  | 2:A:173:RCY:H1ZA | 1.22     | 1.49        | 11     | 2     |
| 2:A:173:RCY:H1ZA | 2:A:187:RCY:C1L  | 1.22     | 1.65        | 45     | 2     |
| 2:A:130:RCY:H1C  | 2:A:160:RCY:C1L  | 1.22     | 1.65        | 66     | 1     |
| 2:A:160:RCY:C1S  | 2:A:176:RCY:O1G  | 1.22     | 1.87        | 73     | 1     |
| 2:A:150:RCY:H1S  | 2:A:160:RCY:C1Y  | 1.22     | 1.63        | 85     | 1     |
| 2:A:160:RCY:O1G  | 2:A:168:RCY:H1Y  | 1.22     | 1.01        | 9      | 1     |
| 1:A:69:PRO:N     | 2:A:173:RCY:C1P  | 1.22     | 2.03        | 10     | 1     |
| 2:A:168:RCY:O1H  | 2:A:168:RCY:H1VB | 1.22     | 1.28        | 61     | 6     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:N1R  | 1.22     | 2.02        | 17     | 4     |
| 1:A:64:ILE:CG2   | 2:A:168:RCY:O1J  | 1.22     | 1.66        | 30     | 1     |
| 2:A:168:RCY:N1R  | 2:A:176:RCY:C1Y  | 1.22     | 2.03        | 59     | 1     |
| 2:A:138:RCY:N1R  | 2:A:150:RCY:O1H  | 1.22     | 1.73        | 62     | 1     |
| 2:A:173:RCY:H1L  | 2:A:176:RCY:O1G  | 1.22     | 1.03        | 71     | 1     |
| 1:A:76:CYS:C     | 2:A:176:RCY:O1H  | 1.22     | 1.78        | 73     | 1     |
| 2:A:138:RCY:H1ZB | 2:A:150:RCY:O1G  | 1.22     | 1.31        | 81     | 1     |
| 2:A:138:RCY:H1ZA | 2:A:150:RCY:C1L  | 1.21     | 1.62        | 1      | 1     |
| 1:A:60:CYS:N     | 2:A:160:RCY:C1L  | 1.21     | 2.02        | 28     | 3     |
| 2:A:173:RCY:C1W  | 2:A:187:RCY:H1Y  | 1.21     | 1.64        | 31     | 1     |
| 2:A:150:RCY:C1V  | 2:A:160:RCY:C1Y  | 1.21     | 2.06        | 42     | 1     |
| 1:A:74:ASN:H     | 2:A:173:RCY:C1Q  | 1.21     | 1.48        | 82     | 2     |
| 2:A:176:RCY:H1C  | 2:A:187:RCY:C1P  | 1.21     | 1.65        | 61     | 1     |
| 1:A:71:GLU:OE1   | 2:A:168:RCY:H1V  | 1.21     | 1.32        | 99     | 1     |
| 2:A:168:RCY:H1LA | 2:A:173:RCY:C1M  | 1.21     | 1.65        | 49     | 2     |
| 2:A:138:RCY:H1L  | 2:A:150:RCY:N1R  | 1.21     | 0.99        | 23     | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:H1U  | 1.21     | 1.26        | 47     | 1     |
| 2:A:160:RCY:N1R  | 2:A:168:RCY:H1M  | 1.21     | 1.44        | 52     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:H1C  | 1.21     | 1.65        | 64     | 1     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:H1YA | 1.21     | 1.63        | 72     | 1     |
| 1:A:63:ASP:O     | 2:A:168:RCY:H1VB | 1.21     | 1.05        | 5      | 1     |
| 2:A:130:RCY:C1V  | 2:A:160:RCY:C1Q  | 1.21     | 2.15        | 8      | 1     |
| 1:A:76:CYS:N     | 2:A:176:RCY:C1Q  | 1.21     | 2.04        | 10     | 2     |
| 1:A:63:ASP:OD1   | 2:A:160:RCY:H1CA | 1.21     | 1.35        | 14     | 2     |
| 2:A:168:RCY:H1ZA | 2:A:173:RCY:C1Z  | 1.21     | 1.66        | 31     | 2     |
| 1:A:73:CYS:CB    | 2:A:176:RCY:H1ZA | 1.21     | 1.59        | 58     | 1     |
| 1:A:71:GLU:CG    | 2:A:130:RCY:H1MA | 1.21     | 1.64        | 94     | 1     |
| 1:A:70:TRP:HB2   | 2:A:168:RCY:C1L  | 1.21     | 1.64        | 33     | 4     |
| 2:A:168:RCY:H1MA | 2:A:187:RCY:O1G  | 1.21     | 0.99        | 100    | 2     |
| 2:A:130:RCY:H1VA | 2:A:160:RCY:O1G  | 1.21     | 1.31        | 87     | 1     |
| 2:A:160:RCY:H1MA | 2:A:168:RCY:C1Z  | 1.21     | 1.52        | 96     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:O1J  | 2:A:176:RCY:H1Z  | 1.21     | 1.34        | 17     | 1     |
| 2:A:138:RCY:N1R  | 2:A:150:RCY:C1Y  | 1.21     | 2.03        | 23     | 2     |
| 2:A:150:RCY:O1J  | 2:A:160:RCY:H1Z  | 1.21     | 1.31        | 32     | 1     |
| 1:A:69:PRO:HG3   | 2:A:173:RCY:C1Z  | 1.21     | 1.47        | 57     | 1     |
| 1:A:70:TRP:CE2   | 2:A:187:RCY:H1Z  | 1.21     | 1.69        | 76     | 1     |
| 1:A:77:GLU:CA    | 2:A:176:RCY:O1G  | 1.20     | 1.89        | 55     | 1     |
| 2:A:150:RCY:H1VB | 2:A:187:RCY:C1Z  | 1.20     | 1.65        | 64     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:173:RCY:C1X  | 1.20     | 2.18        | 3      | 1     |
| 2:A:160:RCY:H1Y  | 2:A:168:RCY:O1G  | 1.20     | 1.03        | 65     | 3     |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:C1Z  | 1.20     | 1.58        | 57     | 4     |
| 2:A:110:RCY:O1G  | 2:A:110:RCY:H1CA | 1.20     | 1.30        | 77     | 7     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:N1R  | 1.20     | 2.02        | 19     | 1     |
| 2:A:176:RCY:O1G  | 2:A:187:RCY:C1M  | 1.20     | 1.88        | 60     | 2     |
| 2:A:176:RCY:C1P  | 2:A:187:RCY:C1M  | 1.20     | 2.17        | 60     | 2     |
| 2:A:173:RCY:H1U  | 2:A:176:RCY:C1Q  | 1.20     | 1.67        | 38     | 1     |
| 1:A:66:VAL:O     | 2:A:168:RCY:C1U  | 1.20     | 1.90        | 51     | 2     |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:C1P  | 1.20     | 1.66        | 75     | 1     |
| 1:A:70:TRP:CB    | 2:A:168:RCY:H1CB | 1.20     | 1.65        | 20     | 1     |
| 1:A:70:TRP:CE2   | 2:A:160:RCY:H1VB | 1.20     | 1.70        | 34     | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:H1U  | 1.20     | 1.60        | 38     | 1     |
| 2:A:138:RCY:O1J  | 2:A:187:RCY:O1J  | 1.20     | 1.60        | 47     | 2     |
| 1:A:73:CYS:HB2   | 2:A:176:RCY:N1R  | 1.20     | 1.26        | 70     | 1     |
| 2:A:138:RCY:C1M  | 2:A:187:RCY:C1V  | 1.20     | 2.18        | 92     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:173:RCY:C1C  | 1.20     | 2.19        | 3      | 1     |
| 2:A:176:RCY:H1M  | 2:A:187:RCY:C1W  | 1.20     | 1.66        | 5      | 1     |
| 2:A:130:RCY:C1X  | 2:A:160:RCY:H1M  | 1.20     | 1.56        | 7      | 1     |
| 1:A:70:TRP:CE2   | 2:A:168:RCY:H1Z  | 1.20     | 1.72        | 24     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:C1V  | 1.20     | 2.17        | 70     | 3     |
| 2:A:173:RCY:C1Q  | 2:A:176:RCY:H1LA | 1.20     | 1.65        | 28     | 2     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:H1MA | 1.20     | 1.72        | 44     | 2     |
| 2:A:138:RCY:C1Z  | 2:A:187:RCY:H1Z  | 1.20     | 1.64        | 77     | 2     |
| 2:A:138:RCY:C1Z  | 2:A:187:RCY:O1G  | 1.20     | 1.89        | 71     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:H1M  | 1.20     | 1.65        | 84     | 1     |
| 2:A:176:RCY:C1M  | 2:A:187:RCY:C1C  | 1.20     | 2.17        | 87     | 2     |
| 1:A:72:ALA:HB3   | 2:A:173:RCY:O1H  | 1.20     | 1.34        | 13     | 2     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:O1G  | 1.20     | 1.90        | 32     | 4     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:H1M  | 1.20     | 1.65        | 34     | 2     |
| 1:A:70:TRP:HH2   | 2:A:168:RCY:O1G  | 1.20     | 0.81        | 48     | 2     |
| 1:A:70:TRP:CH2   | 2:A:168:RCY:H1YA | 1.20     | 1.71        | 49     | 2     |
| 2:A:168:RCY:C1X  | 2:A:176:RCY:H1Y  | 1.20     | 1.64        | 59     | 1     |
| 1:A:68:CYS:CB    | 2:A:176:RCY:H1Y  | 1.20     | 1.66        | 80     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:C1U  | 1.19     | 2.19        | 4      | 1     |
| 1:A:62:THR:OG1   | 2:A:168:RCY:C1P  | 1.19     | 1.90        | 72     | 2     |
| 1:A:73:CYS:C     | 2:A:173:RCY:H1L  | 1.19     | 1.55        | 32     | 1     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:O1J  | 1.19     | 1.36        | 36     | 1     |
| 1:A:70:TRP:HD1   | 2:A:176:RCY:C1U  | 1.19     | 1.50        | 62     | 1     |
| 2:A:130:RCY:C1P  | 2:A:160:RCY:O1G  | 1.19     | 1.83        | 62     | 1     |
| 2:A:150:RCY:C1M  | 2:A:168:RCY:C1Y  | 1.19     | 2.19        | 74     | 1     |
| 1:A:71:GLU:C     | 2:A:168:RCY:C1M  | 1.19     | 1.94        | 91     | 1     |
| 1:A:77:GLU:OE1   | 2:A:176:RCY:C1V  | 1.19     | 1.89        | 7      | 1     |
| 1:A:75:HIS:CA    | 2:A:176:RCY:C1L  | 1.19     | 2.20        | 13     | 1     |
| 1:A:63:ASP:O     | 2:A:160:RCY:C1Z  | 1.19     | 1.89        | 78     | 2     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:C1X  | 1.19     | 2.19        | 33     | 1     |
| 1:A:62:THR:CB    | 2:A:160:RCY:C1C  | 1.19     | 2.02        | 46     | 1     |
| 2:A:173:RCY:H1VB | 2:A:173:RCY:O1H  | 1.19     | 1.33        | 83     | 3     |
| 2:A:168:RCY:N1R  | 2:A:176:RCY:H1M  | 1.19     | 1.24        | 71     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:176:RCY:O1J  | 1.19     | 1.14        | 71     | 1     |
| 1:A:68:CYS:CA    | 2:A:168:RCY:H1L  | 1.19     | 1.67        | 75     | 1     |
| 1:A:70:TRP:CE3   | 2:A:176:RCY:C1C  | 1.19     | 2.24        | 77     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:187:RCY:H1YB | 1.19     | 1.67        | 9      | 2     |
| 2:A:168:RCY:H1ZA | 2:A:176:RCY:C1V  | 1.19     | 1.66        | 31     | 1     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:H1ZA | 1.19     | 1.66        | 35     | 2     |
| 1:A:73:CYS:O     | 2:A:173:RCY:H1CA | 1.19     | 1.35        | 35     | 1     |
| 1:A:77:GLU:CG    | 2:A:176:RCY:H1U  | 1.19     | 1.67        | 39     | 1     |
| 2:A:168:RCY:H1VA | 2:A:176:RCY:C1Y  | 1.19     | 1.45        | 76     | 1     |
| 1:A:70:TRP:CD1   | 2:A:176:RCY:H1VB | 1.19     | 1.71        | 77     | 1     |
| 2:A:150:RCY:H1ZA | 2:A:187:RCY:C1Y  | 1.19     | 1.68        | 3      | 3     |
| 1:A:64:ILE:HD12  | 2:A:168:RCY:C1C  | 1.19     | 1.65        | 4      | 1     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:H1Y  | 1.19     | 1.67        | 9      | 1     |
| 2:A:150:RCY:H1ZA | 2:A:187:RCY:C1V  | 1.19     | 0.88        | 37     | 2     |
| 1:A:71:GLU:OE1   | 2:A:168:RCY:O1G  | 1.19     | 1.59        | 40     | 2     |
| 2:A:150:RCY:H1VB | 2:A:160:RCY:C1M  | 1.19     | 1.67        | 42     | 1     |
| 2:A:130:RCY:O1J  | 2:A:138:RCY:H1L  | 1.19     | 1.15        | 58     | 1     |
| 1:A:69:PRO:HG3   | 2:A:168:RCY:C1W  | 1.19     | 1.59        | 66     | 1     |
| 2:A:168:RCY:C1V  | 2:A:173:RCY:C1Q  | 1.19     | 2.20        | 76     | 1     |
| 2:A:168:RCY:C1Q  | 2:A:173:RCY:C1Y  | 1.19     | 2.20        | 84     | 1     |
| 2:A:160:RCY:C1U  | 2:A:168:RCY:H1S  | 1.19     | 1.68        | 34     | 1     |
| 2:A:150:RCY:H1ZB | 2:A:187:RCY:C1Y  | 1.19     | 1.68        | 49     | 2     |
| 1:A:75:HIS:CG    | 2:A:176:RCY:C1C  | 1.19     | 2.23        | 84     | 1     |
| 2:A:150:RCY:H1YA | 2:A:173:RCY:N1R  | 1.18     | 1.51        | 3      | 1     |
| 1:A:69:PRO:O     | 2:A:173:RCY:C1L  | 1.18     | 1.91        | 6      | 1     |
| 1:A:75:HIS:CB    | 2:A:176:RCY:H1L  | 1.18     | 1.68        | 13     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:65:THR:O     | 2:A:150:RCY:H1YB | 1.18     | 1.32        | 31     | 1     |
| 1:A:69:PRO:HB2   | 2:A:176:RCY:O1G  | 1.18     | 1.34        | 64     | 1     |
| 2:A:173:RCY:O1H  | 2:A:173:RCY:H1ZB | 1.18     | 1.38        | 2      | 5     |
| 2:A:168:RCY:C1C  | 2:A:176:RCY:C1Z  | 1.18     | 2.07        | 3      | 2     |
| 1:A:69:PRO:HA    | 2:A:173:RCY:O1J  | 1.18     | 1.29        | 9      | 1     |
| 2:A:187:RCY:H1VB | 2:A:187:RCY:O1H  | 1.18     | 1.38        | 9      | 4     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:O1J  | 1.18     | 1.92        | 20     | 3     |
| 1:A:64:ILE:HG13  | 2:A:168:RCY:C1S  | 1.18     | 1.68        | 26     | 2     |
| 2:A:138:RCY:O1G  | 2:A:138:RCY:H1VB | 1.18     | 1.37        | 54     | 4     |
| 2:A:130:RCY:C1L  | 2:A:160:RCY:O1G  | 1.18     | 1.92        | 62     | 1     |
| 1:A:63:ASP:HB3   | 2:A:160:RCY:C1C  | 1.18     | 1.67        | 63     | 1     |
| 2:A:160:RCY:H1U  | 2:A:168:RCY:C1W  | 1.18     | 1.60        | 96     | 1     |
| 1:A:62:THR:CG2   | 2:A:160:RCY:C1Z  | 1.18     | 2.06        | 46     | 1     |
| 2:A:168:RCY:H1VA | 2:A:176:RCY:O1H  | 1.18     | 1.37        | 71     | 1     |
| 1:A:69:PRO:CG    | 2:A:150:RCY:C1Y  | 1.18     | 2.21        | 85     | 1     |
| 2:A:138:RCY:H1YA | 2:A:176:RCY:O1J  | 1.18     | 0.96        | 9      | 1     |
| 2:A:138:RCY:C1S  | 2:A:160:RCY:H1U  | 1.18     | 1.63        | 27     | 1     |
| 1:A:72:ALA:CB    | 2:A:173:RCY:N1R  | 1.18     | 2.06        | 30     | 2     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:C1U  | 1.18     | 1.91        | 47     | 1     |
| 2:A:138:RCY:H1CA | 2:A:150:RCY:C1Y  | 1.18     | 1.68        | 59     | 1     |
| 1:A:67:ILE:O     | 2:A:173:RCY:H1V  | 1.18     | 1.00        | 80     | 1     |
| 1:A:75:HIS:O     | 2:A:176:RCY:O1H  | 1.18     | 1.59        | 84     | 1     |
| 2:A:160:RCY:O1G  | 2:A:168:RCY:H1CB | 1.18     | 1.35        | 89     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:173:RCY:O1J  | 1.18     | 1.89        | 3      | 3     |
| 2:A:110:RCY:C1C  | 2:A:121:RCY:C1Y  | 1.18     | 1.97        | 5      | 1     |
| 1:A:77:GLU:CD    | 2:A:176:RCY:H1VA | 1.18     | 1.54        | 7      | 1     |
| 1:A:64:ILE:HD11  | 2:A:168:RCY:O1G  | 1.18     | 1.38        | 12     | 1     |
| 2:A:110:RCY:O1H  | 2:A:110:RCY:H1CA | 1.18     | 1.38        | 50     | 5     |
| 1:A:76:CYS:SG    | 2:A:187:RCY:H1Z  | 1.18     | 1.79        | 80     | 2     |
| 2:A:160:RCY:H1YB | 2:A:168:RCY:N1R  | 1.18     | 1.52        | 58     | 1     |
| 2:A:130:RCY:C1Z  | 2:A:160:RCY:H1LA | 1.18     | 1.52        | 61     | 1     |
| 1:A:71:GLU:CD    | 2:A:173:RCY:H1CB | 1.18     | 1.59        | 89     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:N1R  | 1.18     | 2.07        | 100    | 1     |
| 1:A:63:ASP:HB3   | 2:A:168:RCY:C1V  | 1.17     | 1.68        | 5      | 1     |
| 1:A:61:GLY:C     | 2:A:150:RCY:H1M  | 1.17     | 1.57        | 11     | 1     |
| 1:A:71:GLU:HA    | 2:A:173:RCY:C1L  | 1.17     | 1.69        | 17     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:173:RCY:O1H  | 1.17     | 1.35        | 21     | 3     |
| 1:A:71:GLU:CD    | 2:A:168:RCY:C1C  | 1.17     | 2.10        | 93     | 2     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:C1W  | 1.17     | 2.25        | 41     | 2     |
| 2:A:173:RCY:H1YA | 2:A:187:RCY:C1W  | 1.17     | 1.69        | 92     | 3     |
| 2:A:160:RCY:H1C  | 2:A:168:RCY:C1L  | 1.17     | 1.67        | 48     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:69:PRO:HG3   | 2:A:187:RCY:C1Y  | 1.17     | 1.42        | 87     | 2     |
| 1:A:66:VAL:CG1   | 2:A:121:RCY:C1Z  | 1.17     | 2.20        | 89     | 1     |
| 1:A:63:ASP:C     | 2:A:168:RCY:C1V  | 1.17     | 2.12        | 5      | 1     |
| 1:A:61:GLY:N     | 2:A:160:RCY:H1LA | 1.17     | 1.53        | 19     | 1     |
| 2:A:138:RCY:C1V  | 2:A:187:RCY:H1Y  | 1.17     | 1.69        | 66     | 1     |
| 1:A:63:ASP:HB2   | 2:A:150:RCY:C1X  | 1.17     | 1.33        | 85     | 1     |
| 1:A:74:ASN:OD1   | 2:A:173:RCY:O1G  | 1.17     | 1.58        | 91     | 1     |
| 2:A:173:RCY:O1H  | 2:A:173:RCY:C1Z  | 1.17     | 1.90        | 22     | 7     |
| 2:A:121:RCY:O1G  | 2:A:121:RCY:H1CA | 1.17     | 1.34        | 62     | 6     |
| 2:A:173:RCY:C1L  | 2:A:176:RCY:C1V  | 1.17     | 2.14        | 11     | 3     |
| 2:A:150:RCY:H1Y  | 2:A:187:RCY:C1Y  | 1.17     | 1.67        | 18     | 2     |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:H1VA | 1.17     | 1.69        | 19     | 1     |
| 1:A:74:ASN:HA    | 2:A:173:RCY:C1P  | 1.17     | 1.48        | 27     | 1     |
| 1:A:70:TRP:O     | 2:A:173:RCY:H1V  | 1.17     | 1.36        | 78     | 1     |
| 1:A:70:TRP:CA    | 2:A:173:RCY:H1VB | 1.17     | 1.32        | 6      | 1     |
| 2:A:121:RCY:H1CA | 2:A:121:RCY:O1H  | 1.17     | 1.38        | 58     | 3     |
| 2:A:138:RCY:C1P  | 2:A:150:RCY:H1C  | 1.17     | 1.69        | 94     | 2     |
| 1:A:67:ILE:CG1   | 2:A:176:RCY:C1V  | 1.17     | 2.19        | 16     | 1     |
| 1:A:70:TRP:CG    | 2:A:187:RCY:C1Z  | 1.17     | 2.27        | 76     | 2     |
| 1:A:71:GLU:CG    | 2:A:173:RCY:O1G  | 1.17     | 1.91        | 17     | 1     |
| 1:A:68:CYS:H     | 2:A:168:RCY:C1L  | 1.17     | 1.51        | 21     | 3     |
| 2:A:173:RCY:C1S  | 2:A:176:RCY:C1L  | 1.17     | 2.22        | 28     | 2     |
| 1:A:68:CYS:HA    | 2:A:168:RCY:C1Q  | 1.17     | 1.70        | 87     | 4     |
| 1:A:70:TRP:CD1   | 2:A:176:RCY:C1U  | 1.17     | 2.25        | 62     | 1     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:H1CB | 1.17     | 1.65        | 66     | 1     |
| 2:A:173:RCY:C1S  | 2:A:176:RCY:H1M  | 1.17     | 1.69        | 67     | 1     |
| 1:A:75:HIS:CD2   | 2:A:168:RCY:C1Z  | 1.17     | 2.27        | 73     | 1     |
| 2:A:160:RCY:H1Y  | 2:A:168:RCY:O1J  | 1.17     | 1.36        | 59     | 3     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:C1Y  | 1.17     | 2.23        | 35     | 2     |
| 1:A:70:TRP:HB2   | 2:A:121:RCY:C1V  | 1.17     | 1.49        | 30     | 1     |
| 1:A:77:GLU:N     | 2:A:176:RCY:H1LA | 1.17     | 1.51        | 31     | 2     |
| 1:A:71:GLU:CB    | 2:A:168:RCY:O1H  | 1.17     | 1.93        | 37     | 3     |
| 2:A:138:RCY:C1U  | 2:A:187:RCY:H1C  | 1.16     | 1.56        | 5      | 1     |
| 2:A:138:RCY:O1G  | 2:A:150:RCY:C1M  | 1.16     | 1.93        | 30     | 1     |
| 1:A:68:CYS:SG    | 2:A:173:RCY:H1VB | 1.16     | 1.79        | 71     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:C1W  | 1.16     | 2.21        | 87     | 2     |
| 1:A:70:TRP:N     | 2:A:173:RCY:C1Z  | 1.16     | 2.00        | 85     | 2     |
| 1:A:71:GLU:CA    | 2:A:173:RCY:C1P  | 1.16     | 2.23        | 17     | 2     |
| 1:A:76:CYS:SG    | 2:A:176:RCY:H1S  | 1.16     | 1.80        | 25     | 2     |
| 1:A:76:CYS:HB2   | 2:A:173:RCY:C1P  | 1.16     | 1.68        | 38     | 2     |
| 1:A:70:TRP:CH2   | 2:A:160:RCY:H1VB | 1.16     | 1.45        | 37     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:150:RCY:C1V  | 2:A:160:RCY:H1M  | 1.16     | 1.71        | 42     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:160:RCY:O1H  | 1.16     | 1.92        | 73     | 1     |
| 1:A:70:TRP:CD2   | 2:A:173:RCY:H1ZA | 1.16     | 1.71        | 92     | 1     |
| 2:A:168:RCY:C1V  | 2:A:176:RCY:C1W  | 1.16     | 2.23        | 94     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:187:RCY:N1V  | 1.16     | 2.07        | 97     | 1     |
| 1:A:73:CYS:N     | 2:A:173:RCY:C1L  | 1.16     | 1.93        | 10     | 8     |
| 2:A:138:RCY:C1C  | 2:A:187:RCY:H1M  | 1.16     | 1.70        | 11     | 1     |
| 2:A:138:RCY:O1G  | 2:A:138:RCY:H1ZB | 1.16     | 1.39        | 21     | 11    |
| 2:A:138:RCY:C1P  | 2:A:150:RCY:C1M  | 1.16     | 2.22        | 23     | 2     |
| 1:A:72:ALA:O     | 2:A:168:RCY:C1Z  | 1.16     | 1.85        | 57     | 1     |
| 2:A:130:RCY:O1J  | 2:A:138:RCY:C1P  | 1.16     | 1.92        | 58     | 2     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:H1CA | 1.16     | 1.65        | 96     | 2     |
| 2:A:173:RCY:O1H  | 2:A:176:RCY:C1V  | 1.16     | 1.93        | 62     | 2     |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:C1U  | 1.16     | 2.15        | 77     | 1     |
| 2:A:168:RCY:H1Y  | 2:A:176:RCY:C1V  | 1.16     | 1.52        | 94     | 1     |
| 2:A:168:RCY:O1G  | 2:A:173:RCY:O1J  | 1.16     | 1.64        | 53     | 2     |
| 1:A:64:ILE:HD11  | 2:A:168:RCY:C1Y  | 1.16     | 1.70        | 6      | 1     |
| 2:A:173:RCY:H1ZB | 2:A:176:RCY:C1Y  | 1.16     | 1.70        | 41     | 2     |
| 2:A:168:RCY:H1VA | 2:A:176:RCY:O1J  | 1.16     | 1.41        | 43     | 1     |
| 1:A:68:CYS:HB3   | 2:A:173:RCY:O1J  | 1.16     | 1.39        | 50     | 1     |
| 1:A:69:PRO:CD    | 2:A:168:RCY:C1V  | 1.16     | 2.24        | 63     | 1     |
| 1:A:62:THR:CG2   | 2:A:160:RCY:O1H  | 1.16     | 1.94        | 8      | 1     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:C1V  | 1.16     | 2.24        | 67     | 2     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:C1Z  | 1.16     | 2.09        | 29     | 2     |
| 1:A:76:CYS:CB    | 2:A:173:RCY:C1P  | 1.16     | 2.23        | 38     | 1     |
| 2:A:160:RCY:H1VA | 2:A:176:RCY:C1V  | 1.16     | 1.69        | 57     | 1     |
| 1:A:70:TRP:CD1   | 2:A:173:RCY:H1CA | 1.16     | 1.52        | 64     | 1     |
| 1:A:67:ILE:HG21  | 2:A:138:RCY:O1H  | 1.16     | 1.38        | 72     | 1     |
| 2:A:150:RCY:O1J  | 2:A:160:RCY:H1ZA | 1.16     | 0.94        | 87     | 1     |
| 2:A:160:RCY:H1YA | 2:A:168:RCY:C1Q  | 1.16     | 1.70        | 100    | 1     |
| 2:A:168:RCY:O1G  | 2:A:176:RCY:C1Z  | 1.15     | 1.94        | 13     | 1     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:H1V  | 1.15     | 1.72        | 17     | 1     |
| 2:A:160:RCY:C1V  | 2:A:168:RCY:H1L  | 1.15     | 1.69        | 24     | 1     |
| 1:A:68:CYS:N     | 2:A:168:RCY:C1S  | 1.15     | 2.09        | 51     | 7     |
| 2:A:168:RCY:N1V  | 2:A:173:RCY:C1V  | 1.15     | 2.09        | 48     | 1     |
| 1:A:76:CYS:HA    | 2:A:176:RCY:O1H  | 1.15     | 0.93        | 74     | 3     |
| 1:A:59:GLY:O     | 2:A:160:RCY:H1L  | 1.15     | 1.37        | 89     | 2     |
| 2:A:168:RCY:N1R  | 2:A:187:RCY:O1J  | 1.15     | 1.79        | 64     | 1     |
| 2:A:138:RCY:O1H  | 2:A:150:RCY:H1Z  | 1.15     | 0.93        | 82     | 1     |
| 1:A:70:TRP:C     | 2:A:173:RCY:O1G  | 1.15     | 1.84        | 94     | 1     |
| 2:A:138:RCY:C1M  | 2:A:150:RCY:N1R  | 1.15     | 2.02        | 1      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:H1Z  | 2:A:187:RCY:C1L  | 1.15     | 1.71        | 3      | 1     |
| 2:A:160:RCY:N1V  | 2:A:168:RCY:H1ZB | 1.15     | 1.57        | 5      | 1     |
| 2:A:173:RCY:C1Q  | 2:A:176:RCY:C1L  | 1.15     | 2.22        | 23     | 4     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:C1Z  | 1.15     | 2.28        | 41     | 2     |
| 1:A:76:CYS:O     | 2:A:160:RCY:C1V  | 1.15     | 1.95        | 73     | 1     |
| 1:A:71:GLU:OE1   | 2:A:173:RCY:O1H  | 1.15     | 1.60        | 89     | 1     |
| 2:A:168:RCY:H1MA | 2:A:176:RCY:O1J  | 1.15     | 1.40        | 11     | 1     |
| 1:A:70:TRP:CB    | 2:A:168:RCY:H1S  | 1.15     | 1.70        | 19     | 2     |
| 1:A:66:VAL:C     | 2:A:176:RCY:H1YB | 1.15     | 1.36        | 22     | 1     |
| 1:A:70:TRP:HB2   | 2:A:150:RCY:N1R  | 1.15     | 1.55        | 34     | 1     |
| 1:A:62:THR:CA    | 2:A:138:RCY:H1ZA | 1.15     | 1.72        | 38     | 1     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:O1J  | 1.15     | 1.93        | 55     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:160:RCY:O1H  | 1.15     | 1.98        | 58     | 1     |
| 2:A:168:RCY:H1S  | 2:A:173:RCY:H1U  | 1.15     | 1.16        | 71     | 1     |
| 1:A:64:ILE:HA    | 2:A:168:RCY:O1H  | 1.15     | 1.35        | 78     | 1     |
| 2:A:150:RCY:C1X  | 2:A:176:RCY:O1G  | 1.15     | 1.94        | 82     | 1     |
| 2:A:176:RCY:H1M  | 2:A:187:RCY:O1J  | 1.15     | 1.35        | 91     | 2     |
| 1:A:64:ILE:CG1   | 2:A:168:RCY:H1MA | 1.15     | 1.70        | 6      | 1     |
| 1:A:71:GLU:HA    | 2:A:173:RCY:C1Q  | 1.15     | 1.72        | 49     | 4     |
| 1:A:76:CYS:SG    | 2:A:173:RCY:O1J  | 1.15     | 2.02        | 75     | 2     |
| 1:A:70:TRP:CD1   | 2:A:121:RCY:C1M  | 1.15     | 2.29        | 49     | 1     |
| 2:A:138:RCY:C1U  | 2:A:150:RCY:O1H  | 1.15     | 1.91        | 62     | 2     |
| 1:A:66:VAL:HG12  | 2:A:160:RCY:O1J  | 1.15     | 1.36        | 68     | 1     |
| 1:A:69:PRO:HA    | 2:A:173:RCY:H1ZB | 1.15     | 1.16        | 75     | 1     |
| 2:A:168:RCY:C1M  | 2:A:187:RCY:O1G  | 1.15     | 1.93        | 100    | 2     |
| 1:A:66:VAL:CG1   | 2:A:121:RCY:C1V  | 1.15     | 1.90        | 83     | 1     |
| 1:A:64:ILE:CG2   | 2:A:168:RCY:H1M  | 1.15     | 1.72        | 95     | 1     |
| 2:A:173:RCY:O1G  | 2:A:176:RCY:O1H  | 1.15     | 1.65        | 96     | 1     |
| 2:A:168:RCY:N1V  | 2:A:176:RCY:H1Z  | 1.15     | 1.56        | 17     | 3     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:C1W  | 1.15     | 2.23        | 35     | 2     |
| 2:A:138:RCY:C1V  | 2:A:176:RCY:H1CA | 1.15     | 1.72        | 9      | 1     |
| 2:A:130:RCY:O1J  | 2:A:160:RCY:C1C  | 1.15     | 1.95        | 43     | 3     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:H1V  | 1.15     | 1.71        | 27     | 1     |
| 2:A:160:RCY:O1G  | 2:A:160:RCY:H1ZB | 1.15     | 1.24        | 30     | 1     |
| 1:A:64:ILE:CG2   | 2:A:160:RCY:H1MA | 1.15     | 1.71        | 47     | 1     |
| 1:A:68:CYS:CB    | 2:A:173:RCY:H1MA | 1.15     | 1.64        | 73     | 1     |
| 2:A:138:RCY:H1YB | 2:A:187:RCY:C1M  | 1.15     | 1.69        | 89     | 1     |
| 1:A:60:CYS:C     | 2:A:168:RCY:H1U  | 1.15     | 1.62        | 95     | 1     |
| 2:A:130:RCY:O1H  | 2:A:130:RCY:N1V  | 1.14     | 1.79        | 2      | 1     |
| 2:A:138:RCY:C1C  | 2:A:160:RCY:H1V  | 1.14     | 1.66        | 27     | 1     |
| 2:A:150:RCY:C1V  | 2:A:160:RCY:C1M  | 1.14     | 2.25        | 42     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:H1M  | 1.14     | 1.67        | 70     | 1     |
| 1:A:70:TRP:CG    | 2:A:176:RCY:H1VB | 1.14     | 1.61        | 77     | 1     |
| 2:A:173:RCY:H1M  | 2:A:176:RCY:C1Q  | 1.14     | 1.71        | 88     | 1     |
| 2:A:176:RCY:C1M  | 2:A:187:RCY:O1J  | 1.14     | 1.89        | 91     | 2     |
| 2:A:173:RCY:C1P  | 2:A:176:RCY:H1Y  | 1.14     | 1.62        | 97     | 1     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:O1G  | 1.14     | 1.22        | 1      | 2     |
| 2:A:168:RCY:C1L  | 2:A:173:RCY:H1Z  | 1.14     | 1.70        | 5      | 1     |
| 1:A:70:TRP:CA    | 2:A:173:RCY:C1P  | 1.14     | 2.24        | 6      | 1     |
| 1:A:69:PRO:CA    | 2:A:173:RCY:C1P  | 1.14     | 2.26        | 10     | 1     |
| 1:A:60:CYS:O     | 2:A:160:RCY:H1LA | 1.14     | 1.41        | 30     | 1     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:N1R  | 1.14     | 1.55        | 52     | 2     |
| 1:A:71:GLU:CG    | 2:A:150:RCY:C1U  | 1.14     | 2.19        | 58     | 1     |
| 2:A:168:RCY:H1M  | 2:A:187:RCY:C1V  | 1.14     | 1.71        | 90     | 1     |
| 2:A:168:RCY:H1Y  | 2:A:176:RCY:H1VB | 1.14     | 1.17        | 94     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:H1S  | 1.14     | 1.55        | 100    | 1     |
| 2:A:176:RCY:N1V  | 2:A:187:RCY:H1U  | 1.14     | 1.50        | 29     | 2     |
| 1:A:69:PRO:CG    | 2:A:176:RCY:C1Z  | 1.14     | 2.23        | 66     | 1     |
| 2:A:130:RCY:H1Y  | 2:A:138:RCY:C1Z  | 1.14     | 1.70        | 73     | 1     |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:H1CA | 1.14     | 1.72        | 75     | 1     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:C1Y  | 1.14     | 2.26        | 1      | 4     |
| 2:A:168:RCY:C1Z  | 2:A:176:RCY:H1Z  | 1.14     | 1.72        | 11     | 3     |
| 1:A:68:CYS:CB    | 2:A:160:RCY:C1Z  | 1.14     | 2.25        | 19     | 1     |
| 2:A:138:RCY:O1G  | 2:A:150:RCY:H1M  | 1.14     | 1.37        | 23     | 2     |
| 2:A:150:RCY:C1C  | 2:A:187:RCY:O1J  | 1.14     | 1.95        | 84     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:C1P  | 1.14     | 2.26        | 1      | 2     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:N1V  | 1.14     | 1.81        | 78     | 3     |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:C1S  | 1.14     | 1.87        | 38     | 1     |
| 2:A:130:RCY:H1VB | 2:A:130:RCY:O1H  | 1.14     | 1.42        | 70     | 3     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:O1J  | 1.14     | 1.96        | 53     | 1     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:O1H  | 1.14     | 1.43        | 58     | 1     |
| 1:A:65:THR:O     | 2:A:173:RCY:H1C  | 1.14     | 0.92        | 71     | 1     |
| 1:A:62:THR:CG2   | 2:A:168:RCY:H1ZA | 1.14     | 1.72        | 72     | 1     |
| 1:A:63:ASP:CB    | 2:A:150:RCY:H1CB | 1.14     | 1.71        | 85     | 1     |
| 2:A:168:RCY:H1YA | 2:A:176:RCY:C1V  | 1.14     | 1.56        | 94     | 2     |
| 1:A:70:TRP:HB3   | 2:A:173:RCY:C1Z  | 1.14     | 1.72        | 94     | 1     |
| 1:A:65:THR:OG1   | 2:A:160:RCY:C1Z  | 1.14     | 1.96        | 100    | 1     |
| 2:A:160:RCY:H1YA | 2:A:168:RCY:C1S  | 1.14     | 1.60        | 100    | 1     |
| 2:A:173:RCY:O1J  | 2:A:176:RCY:H1VB | 1.13     | 1.06        | 23     | 4     |
| 2:A:138:RCY:C1P  | 2:A:150:RCY:C1C  | 1.13     | 2.26        | 9      | 2     |
| 1:A:70:TRP:HB3   | 2:A:121:RCY:C1V  | 1.13     | 1.53        | 30     | 1     |
| 2:A:173:RCY:C1M  | 2:A:187:RCY:H1YA | 1.13     | 1.62        | 31     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:173:RCY:H1MA | 2:A:176:RCY:C1V  | 1.13     | 1.36        | 89     | 2     |
| 1:A:62:THR:HA    | 2:A:138:RCY:C1Z  | 1.13     | 1.72        | 38     | 1     |
| 1:A:71:GLU:HA    | 2:A:176:RCY:C1V  | 1.13     | 1.46        | 67     | 3     |
| 1:A:78:LEU:CD1   | 2:A:176:RCY:N1R  | 1.13     | 2.11        | 56     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:187:RCY:C1Z  | 1.13     | 2.25        | 77     | 2     |
| 2:A:168:RCY:O1J  | 2:A:173:RCY:O1J  | 1.13     | 1.67        | 96     | 1     |
| 1:A:70:TRP:N     | 2:A:173:RCY:H1ZA | 1.13     | 1.49        | 5      | 1     |
| 1:A:69:PRO:C     | 2:A:173:RCY:H1LA | 1.13     | 1.57        | 6      | 2     |
| 2:A:176:RCY:C1W  | 2:A:187:RCY:H1V  | 1.13     | 1.65        | 10     | 1     |
| 1:A:68:CYS:N     | 2:A:168:RCY:C1L  | 1.13     | 2.12        | 91     | 4     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:H1MA | 1.13     | 1.73        | 26     | 2     |
| 1:A:73:CYS:O     | 2:A:173:RCY:H1L  | 1.13     | 1.40        | 29     | 2     |
| 2:A:150:RCY:H1YA | 2:A:187:RCY:C1V  | 1.13     | 1.72        | 38     | 1     |
| 1:A:73:CYS:SG    | 2:A:176:RCY:O1G  | 1.13     | 2.06        | 40     | 2     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:N1R  | 1.13     | 2.09        | 58     | 1     |
| 1:A:69:PRO:CG    | 2:A:168:RCY:C1M  | 1.13     | 2.17        | 66     | 1     |
| 1:A:65:THR:HB    | 2:A:168:RCY:O1G  | 1.13     | 1.33        | 80     | 1     |
| 1:A:71:GLU:CD    | 2:A:168:RCY:H1VB | 1.13     | 1.61        | 93     | 2     |
| 1:A:71:GLU:OE2   | 2:A:130:RCY:C1Q  | 1.13     | 1.97        | 94     | 1     |
| 1:A:73:CYS:CA    | 2:A:168:RCY:H1ZA | 1.13     | 1.60        | 99     | 1     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:C1Y  | 1.13     | 2.15        | 77     | 4     |
| 2:A:168:RCY:C1Y  | 2:A:187:RCY:C1S  | 1.13     | 2.22        | 3      | 3     |
| 1:A:64:ILE:HG12  | 2:A:168:RCY:C1P  | 1.13     | 1.73        | 18     | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:H1C  | 1.13     | 1.70        | 67     | 1     |
| 2:A:176:RCY:H1YB | 2:A:187:RCY:C1Y  | 1.13     | 1.73        | 72     | 1     |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:O1G  | 1.13     | 1.39        | 75     | 1     |
| 1:A:70:TRP:HB3   | 2:A:173:RCY:C1M  | 1.13     | 1.69        | 84     | 1     |
| 1:A:75:HIS:N     | 2:A:173:RCY:O1G  | 1.13     | 1.81        | 91     | 1     |
| 2:A:176:RCY:C1Z  | 2:A:187:RCY:C1L  | 1.13     | 2.27        | 92     | 1     |
| 2:A:176:RCY:O1H  | 2:A:187:RCY:H1V  | 1.13     | 1.42        | 93     | 1     |
| 2:A:130:RCY:C1M  | 2:A:160:RCY:H1YA | 1.13     | 1.72        | 7      | 1     |
| 2:A:168:RCY:C1V  | 2:A:173:RCY:C1C  | 1.13     | 1.85        | 45     | 1     |
| 2:A:173:RCY:H1MA | 2:A:176:RCY:N1V  | 1.13     | 1.28        | 55     | 1     |
| 1:A:70:TRP:CA    | 2:A:168:RCY:C1C  | 1.13     | 2.24        | 57     | 1     |
| 2:A:138:RCY:C1C  | 2:A:173:RCY:H1ZA | 1.13     | 1.74        | 66     | 1     |
| 2:A:138:RCY:C1X  | 2:A:150:RCY:H1ZA | 1.13     | 1.66        | 87     | 1     |
| 1:A:78:LEU:CG    | 2:A:187:RCY:C1C  | 1.13     | 2.25        | 91     | 1     |
| 2:A:168:RCY:H1C  | 2:A:173:RCY:C1U  | 1.13     | 1.70        | 99     | 1     |
| 2:A:173:RCY:N1R  | 2:A:187:RCY:H1CB | 1.13     | 1.53        | 99     | 1     |
| 2:A:173:RCY:H1C  | 2:A:176:RCY:H1CB | 1.12     | 1.22        | 8      | 1     |
| 1:A:60:CYS:CA    | 2:A:130:RCY:H1MA | 1.12     | 1.36        | 18     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:C1Y  | 2:A:173:RCY:H1ZB | 1.13     | 1.47        | 20     | 1     |
| 2:A:130:RCY:C1Z  | 2:A:160:RCY:O1G  | 1.12     | 1.96        | 22     | 2     |
| 1:A:59:GLY:CA    | 2:A:160:RCY:H1L  | 1.12     | 1.73        | 57     | 4     |
| 1:A:70:TRP:CH2   | 2:A:160:RCY:C1V  | 1.13     | 2.20        | 37     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:N1V  | 1.13     | 2.11        | 71     | 2     |
| 2:A:130:RCY:C1Y  | 2:A:160:RCY:C1U  | 1.12     | 2.26        | 50     | 1     |
| 2:A:168:RCY:C1X  | 2:A:176:RCY:C1Y  | 1.12     | 2.27        | 94     | 3     |
| 1:A:64:ILE:CD1   | 2:A:121:RCY:O1G  | 1.12     | 1.96        | 68     | 1     |
| 1:A:62:THR:CG2   | 2:A:168:RCY:C1Z  | 1.12     | 2.26        | 72     | 1     |
| 2:A:173:RCY:H1YA | 2:A:187:RCY:N1V  | 1.12     | 1.19        | 92     | 1     |
| 2:A:168:RCY:H1ZA | 2:A:187:RCY:C1Q  | 1.13     | 1.73        | 100    | 1     |
| 2:A:121:RCY:H1VB | 2:A:121:RCY:O1H  | 1.12     | 1.43        | 27     | 5     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:C1C  | 1.12     | 2.18        | 72     | 4     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:H1YA | 1.12     | 1.73        | 41     | 1     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:O1J  | 1.12     | 1.96        | 59     | 2     |
| 2:A:138:RCY:H1YB | 2:A:150:RCY:C1V  | 1.12     | 1.71        | 81     | 1     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:C1Y  | 1.12     | 1.56        | 2      | 2     |
| 1:A:76:CYS:HA    | 2:A:176:RCY:C1Q  | 1.12     | 1.74        | 74     | 3     |
| 2:A:138:RCY:O1H  | 2:A:160:RCY:H1L  | 1.12     | 1.43        | 38     | 1     |
| 2:A:150:RCY:C1M  | 2:A:160:RCY:H1VA | 1.12     | 1.64        | 42     | 1     |
| 1:A:69:PRO:N     | 2:A:168:RCY:C1V  | 1.12     | 2.11        | 63     | 1     |
| 1:A:72:ALA:CB    | 2:A:173:RCY:C1S  | 1.12     | 2.26        | 78     | 1     |
| 2:A:176:RCY:C1W  | 2:A:187:RCY:C1L  | 1.12     | 2.08        | 92     | 1     |
| 2:A:173:RCY:O1J  | 2:A:187:RCY:H1V  | 1.12     | 1.42        | 8      | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:H1M  | 1.12     | 1.42        | 21     | 2     |
| 2:A:160:RCY:O1H  | 2:A:160:RCY:H1ZB | 1.12     | 1.44        | 91     | 3     |
| 2:A:150:RCY:N1V  | 2:A:187:RCY:C1C  | 1.12     | 2.11        | 50     | 1     |
| 1:A:70:TRP:O     | 2:A:150:RCY:H1ZB | 1.12     | 0.91        | 58     | 1     |
| 1:A:69:PRO:O     | 2:A:173:RCY:C1Z  | 1.12     | 1.95        | 85     | 2     |
| 1:A:63:ASP:OD2   | 2:A:168:RCY:O1G  | 1.12     | 1.66        | 92     | 1     |
| 2:A:176:RCY:H1Y  | 2:A:187:RCY:C1V  | 1.12     | 1.74        | 72     | 2     |
| 2:A:176:RCY:C1M  | 2:A:187:RCY:C1Z  | 1.12     | 2.28        | 5      | 1     |
| 1:A:74:ASN:ND2   | 2:A:173:RCY:O1G  | 1.12     | 1.82        | 27     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:C1X  | 1.12     | 2.27        | 31     | 1     |
| 2:A:168:RCY:H1S  | 2:A:173:RCY:C1Z  | 1.12     | 1.69        | 39     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:C1U  | 1.12     | 2.27        | 60     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:C1X  | 1.12     | 2.28        | 76     | 2     |
| 2:A:150:RCY:H1ZB | 2:A:187:RCY:O1H  | 1.12     | 1.43        | 84     | 1     |
| 2:A:138:RCY:O1J  | 2:A:150:RCY:H1MA | 1.12     | 0.90        | 88     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:H1C  | 1.12     | 1.73        | 96     | 1     |
| 1:A:75:HIS:CE1   | 2:A:176:RCY:H1L  | 1.12     | 1.78        | 24     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:C1V  | 1.12     | 2.00        | 48     | 3     |
| 2:A:160:RCY:C1C  | 2:A:168:RCY:H1LA | 1.12     | 1.72        | 48     | 1     |
| 2:A:173:RCY:C1V  | 2:A:187:RCY:H1ZA | 1.12     | 1.75        | 53     | 1     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:H1LA | 1.12     | 1.73        | 58     | 1     |
| 2:A:130:RCY:H1VA | 2:A:160:RCY:O1J  | 1.12     | 1.40        | 64     | 1     |
| 2:A:173:RCY:O1H  | 2:A:176:RCY:C1Y  | 1.12     | 1.97        | 68     | 1     |
| 1:A:70:TRP:N     | 2:A:176:RCY:H1YB | 1.12     | 1.59        | 80     | 1     |
| 2:A:110:RCY:H1Y  | 2:A:121:RCY:C1V  | 1.11     | 1.68        | 81     | 2     |
| 1:A:76:CYS:HB3   | 2:A:176:RCY:O1H  | 1.11     | 1.38        | 14     | 15    |
| 2:A:168:RCY:O1J  | 2:A:173:RCY:O1H  | 1.11     | 1.68        | 8      | 1     |
| 2:A:168:RCY:H1C  | 2:A:176:RCY:O1J  | 1.11     | 1.40        | 43     | 3     |
| 2:A:138:RCY:O1J  | 2:A:160:RCY:N1R  | 1.11     | 1.83        | 18     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:C1X  | 1.11     | 2.28        | 38     | 1     |
| 2:A:150:RCY:H1M  | 2:A:160:RCY:H1VB | 1.11     | 1.20        | 42     | 1     |
| 2:A:168:RCY:C1X  | 2:A:173:RCY:H1VB | 1.11     | 1.67        | 48     | 2     |
| 2:A:173:RCY:H1VA | 2:A:187:RCY:C1V  | 1.11     | 1.74        | 48     | 1     |
| 1:A:74:ASN:O     | 2:A:187:RCY:N1V  | 1.11     | 1.70        | 56     | 1     |
| 1:A:72:ALA:CA    | 2:A:168:RCY:C1Z  | 1.11     | 2.20        | 57     | 1     |
| 2:A:130:RCY:H1MA | 2:A:160:RCY:O1G  | 1.11     | 1.43        | 61     | 1     |
| 2:A:110:RCY:H1YA | 2:A:121:RCY:H1C  | 1.11     | 1.15        | 81     | 1     |
| 1:A:63:ASP:CB    | 2:A:150:RCY:C1C  | 1.11     | 2.28        | 85     | 1     |
| 2:A:176:RCY:C1Z  | 2:A:187:RCY:C1C  | 1.11     | 2.27        | 64     | 5     |
| 2:A:168:RCY:H1MA | 2:A:187:RCY:C1W  | 1.11     | 1.59        | 84     | 2     |
| 1:A:62:THR:HG21  | 2:A:130:RCY:C1M  | 1.11     | 1.50        | 9      | 1     |
| 2:A:138:RCY:C1C  | 2:A:173:RCY:C1Z  | 1.11     | 2.27        | 66     | 2     |
| 2:A:173:RCY:O1G  | 2:A:187:RCY:C1V  | 1.11     | 1.99        | 16     | 3     |
| 1:A:64:ILE:CG1   | 2:A:160:RCY:C1Y  | 1.11     | 2.27        | 19     | 2     |
| 1:A:76:CYS:C     | 2:A:176:RCY:C1L  | 1.11     | 2.16        | 31     | 2     |
| 2:A:168:RCY:H1MA | 2:A:173:RCY:C1Q  | 1.11     | 1.61        | 36     | 2     |
| 2:A:160:RCY:N1V  | 2:A:168:RCY:H1U  | 1.11     | 1.58        | 47     | 1     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:H1VA | 1.11     | 1.16        | 69     | 1     |
| 1:A:69:PRO:HA    | 2:A:173:RCY:C1Z  | 1.11     | 1.73        | 75     | 1     |
| 1:A:70:TRP:CE2   | 2:A:176:RCY:H1MA | 1.11     | 1.80        | 85     | 1     |
| 2:A:130:RCY:H1CA | 2:A:130:RCY:O1H  | 1.11     | 1.42        | 85     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:C1P  | 1.11     | 2.27        | 89     | 1     |
| 2:A:168:RCY:H1MA | 2:A:187:RCY:C1P  | 1.11     | 1.75        | 100    | 1     |
| 2:A:138:RCY:H1VA | 2:A:187:RCY:C1Z  | 1.11     | 1.74        | 11     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:H1VB | 1.11     | 1.76        | 58     | 3     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:C1V  | 1.11     | 2.29        | 38     | 2     |
| 2:A:138:RCY:H1CB | 2:A:150:RCY:O1J  | 1.11     | 1.36        | 59     | 2     |
| 2:A:150:RCY:C1U  | 2:A:160:RCY:C1V  | 1.11     | 2.28        | 42     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:61:GLY:O     | 2:A:168:RCY:H1CA | 1.11     | 1.45        | 61     | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:H1ZB | 1.11     | 0.90        | 5      | 2     |
| 1:A:72:ALA:C     | 2:A:173:RCY:H1S  | 1.11     | 1.65        | 76     | 2     |
| 1:A:73:CYS:HA    | 2:A:173:RCY:H1L  | 1.11     | 1.17        | 94     | 3     |
| 1:A:71:GLU:HA    | 2:A:173:RCY:C1Y  | 1.11     | 1.73        | 33     | 1     |
| 2:A:130:RCY:H1Y  | 2:A:160:RCY:O1G  | 1.11     | 1.34        | 50     | 1     |
| 1:A:71:GLU:OE2   | 2:A:150:RCY:N1R  | 1.11     | 1.82        | 58     | 1     |
| 2:A:173:RCY:C1P  | 2:A:176:RCY:H1CB | 1.11     | 1.67        | 64     | 1     |
| 1:A:68:CYS:SG    | 2:A:160:RCY:H1VA | 1.11     | 1.85        | 3      | 1     |
| 1:A:70:TRP:HB2   | 2:A:168:RCY:C1P  | 1.11     | 1.76        | 45     | 4     |
| 1:A:70:TRP:H     | 2:A:173:RCY:C1Z  | 1.11     | 1.39        | 5      | 1     |
| 1:A:76:CYS:HA    | 2:A:176:RCY:H1L  | 1.11     | 1.17        | 5      | 2     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:H1ZA | 1.11     | 1.74        | 6      | 2     |
| 1:A:61:GLY:C     | 2:A:160:RCY:C1L  | 1.11     | 2.19        | 19     | 1     |
| 1:A:70:TRP:NE1   | 2:A:168:RCY:C1Z  | 1.11     | 2.13        | 24     | 1     |
| 2:A:138:RCY:H1VB | 2:A:150:RCY:C1V  | 1.11     | 1.75        | 67     | 1     |
| 2:A:160:RCY:C1Q  | 2:A:176:RCY:O1G  | 1.11     | 0.81        | 73     | 1     |
| 1:A:64:ILE:CB    | 2:A:168:RCY:H1ZA | 1.11     | 1.76        | 78     | 1     |
| 1:A:70:TRP:NE1   | 2:A:176:RCY:C1Y  | 1.11     | 2.07        | 80     | 1     |
| 1:A:69:PRO:CB    | 2:A:150:RCY:C1Z  | 1.11     | 2.20        | 92     | 1     |
| 2:A:173:RCY:H1C  | 2:A:187:RCY:C1Z  | 1.11     | 1.74        | 93     | 1     |
| 2:A:130:RCY:C1Z  | 2:A:160:RCY:C1Y  | 1.10     | 2.23        | 7      | 1     |
| 2:A:187:RCY:O1H  | 2:A:187:RCY:C1Z  | 1.10     | 1.93        | 19     | 4     |
| 1:A:75:HIS:H     | 2:A:176:RCY:C1C  | 1.10     | 1.58        | 20     | 1     |
| 2:A:160:RCY:H1ZB | 2:A:168:RCY:C1M  | 1.10     | 1.70        | 52     | 2     |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:C1W  | 1.10     | 2.17        | 92     | 2     |
| 2:A:138:RCY:O1G  | 2:A:150:RCY:O1G  | 1.10     | 1.66        | 77     | 1     |
| 1:A:63:ASP:O     | 2:A:168:RCY:H1Z  | 1.10     | 1.37        | 78     | 1     |
| 2:A:168:RCY:C1L  | 2:A:173:RCY:C1V  | 1.10     | 2.17        | 4      | 2     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:H1VA | 1.10     | 1.75        | 31     | 2     |
| 2:A:138:RCY:O1G  | 2:A:138:RCY:H1CA | 1.10     | 1.44        | 42     | 7     |
| 1:A:68:CYS:N     | 2:A:176:RCY:H1Y  | 1.10     | 1.56        | 22     | 1     |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:H1YA | 1.10     | 1.72        | 26     | 1     |
| 2:A:150:RCY:H1YA | 2:A:187:RCY:O1J  | 1.10     | 1.44        | 53     | 1     |
| 1:A:64:ILE:HG23  | 2:A:168:RCY:C1C  | 1.10     | 1.76        | 54     | 1     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:N1V  | 1.10     | 1.90        | 55     | 1     |
| 2:A:138:RCY:H1VB | 2:A:160:RCY:C1Z  | 1.10     | 1.74        | 64     | 1     |
| 1:A:70:TRP:HB3   | 2:A:173:RCY:H1ZA | 1.10     | 1.12        | 94     | 1     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:O1J  | 1.10     | 1.98        | 4      | 1     |
| 2:A:187:RCY:C1C  | 2:A:187:RCY:O1G  | 1.10     | 1.99        | 71     | 4     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:C1S  | 1.10     | 2.22        | 12     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:70:TRP:CZ2   | 2:A:168:RCY:H1Z  | 1.10     | 1.82        | 24     | 1     |
| 1:A:71:GLU:CB    | 2:A:168:RCY:C1Q  | 1.10     | 2.26        | 91     | 3     |
| 2:A:173:RCY:H1Z  | 2:A:176:RCY:C1Y  | 1.10     | 1.75        | 72     | 2     |
| 2:A:138:RCY:O1H  | 2:A:150:RCY:C1P  | 1.10     | 1.99        | 41     | 1     |
| 2:A:173:RCY:O1H  | 2:A:176:RCY:O1H  | 1.10     | 1.70        | 60     | 3     |
| 1:A:72:ALA:HB2   | 2:A:173:RCY:C1M  | 1.10     | 1.76        | 80     | 1     |
| 1:A:71:GLU:C     | 2:A:168:RCY:H1C  | 1.10     | 1.65        | 86     | 1     |
| 1:A:73:CYS:CA    | 2:A:168:RCY:H1ZB | 1.10     | 1.68        | 99     | 1     |
| 2:A:138:RCY:C1C  | 2:A:187:RCY:H1YB | 1.10     | 1.76        | 99     | 1     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:H1VB | 1.10     | 1.58        | 2      | 1     |
| 1:A:63:ASP:C     | 2:A:168:RCY:H1VB | 1.10     | 1.66        | 5      | 1     |
| 2:A:176:RCY:H1M  | 2:A:187:RCY:O1G  | 1.10     | 0.89        | 10     | 1     |
| 2:A:160:RCY:O1J  | 2:A:173:RCY:H1CA | 1.10     | 1.42        | 11     | 1     |
| 2:A:160:RCY:C1V  | 2:A:168:RCY:C1C  | 1.10     | 2.25        | 14     | 2     |
| 2:A:173:RCY:C1L  | 2:A:187:RCY:C1Y  | 1.10     | 2.23        | 34     | 1     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:H1ZA | 1.10     | 1.15        | 59     | 1     |
| 1:A:70:TRP:CD1   | 2:A:176:RCY:C1X  | 1.10     | 2.33        | 62     | 1     |
| 1:A:70:TRP:CG    | 2:A:187:RCY:H1ZA | 1.10     | 1.80        | 76     | 1     |
| 2:A:138:RCY:H1YB | 2:A:150:RCY:H1V  | 1.10     | 1.22        | 81     | 1     |
| 1:A:59:GLY:CA    | 2:A:160:RCY:H1VA | 1.10     | 1.75        | 83     | 1     |
| 1:A:78:LEU:HD11  | 2:A:176:RCY:C1Z  | 1.10     | 1.75        | 91     | 1     |
| 1:A:60:CYS:HB2   | 2:A:168:RCY:C1C  | 1.10     | 1.76        | 95     | 1     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:H1ZA | 1.10     | 1.77        | 96     | 1     |
| 2:A:168:RCY:H1Z  | 2:A:187:RCY:H1S  | 1.10     | 1.13        | 100    | 1     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:O1H  | 1.10     | 1.99        | 81     | 4     |
| 2:A:168:RCY:C1M  | 2:A:187:RCY:H1Y  | 1.10     | 1.61        | 7      | 2     |
| 2:A:176:RCY:O1G  | 2:A:176:RCY:C1Z  | 1.10     | 1.99        | 61     | 4     |
| 1:A:65:THR:CG2   | 2:A:130:RCY:H1C  | 1.10     | 1.76        | 9      | 1     |
| 1:A:60:CYS:HB3   | 2:A:160:RCY:O1H  | 1.10     | 1.35        | 44     | 22    |
| 1:A:71:GLU:HG3   | 2:A:168:RCY:C1Q  | 1.10     | 1.77        | 93     | 3     |
| 1:A:64:ILE:CG1   | 2:A:168:RCY:O1G  | 1.10     | 1.99        | 18     | 1     |
| 2:A:173:RCY:H1C  | 2:A:176:RCY:C1Z  | 1.10     | 1.75        | 27     | 1     |
| 2:A:160:RCY:H1V  | 2:A:168:RCY:H1CB | 1.10     | 1.16        | 30     | 1     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:C1Q  | 1.10     | 2.30        | 62     | 1     |
| 1:A:69:PRO:HB2   | 2:A:176:RCY:H1ZA | 1.10     | 1.13        | 66     | 1     |
| 2:A:110:RCY:H1YB | 2:A:121:RCY:C1X  | 1.10     | 1.77        | 81     | 1     |
| 1:A:64:ILE:HB    | 2:A:168:RCY:O1H  | 1.10     | 1.44        | 95     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:C1Q  | 1.10     | 2.28        | 100    | 1     |
| 1:A:61:GLY:HA2   | 2:A:160:RCY:C1L  | 1.09     | 1.76        | 2      | 1     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:C1V  | 1.09     | 2.30        | 72     | 4     |
| 2:A:138:RCY:C1P  | 2:A:150:RCY:H1CA | 1.09     | 1.74        | 9      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:74:ASN:O     | 2:A:173:RCY:C1V  | 1.09     | 2.00        | 15     | 1     |
| 1:A:65:THR:HG21  | 2:A:160:RCY:C1C  | 1.09     | 1.77        | 31     | 1     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:C1Z  | 1.09     | 2.25        | 34     | 2     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:C1C  | 1.09     | 2.30        | 38     | 2     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:H1VB | 1.09     | 1.76        | 43     | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:C1V  | 1.09     | 2.14        | 62     | 3     |
| 2:A:173:RCY:H1V  | 2:A:187:RCY:H1VA | 1.09     | 1.17        | 55     | 1     |
| 2:A:168:RCY:C1M  | 2:A:176:RCY:H1ZA | 1.09     | 1.75        | 64     | 1     |
| 1:A:74:ASN:ND2   | 2:A:168:RCY:H1YB | 1.09     | 1.61        | 91     | 1     |
| 2:A:173:RCY:C1X  | 2:A:176:RCY:H1YB | 1.09     | 1.77        | 2      | 1     |
| 2:A:138:RCY:O1J  | 2:A:150:RCY:H1YA | 1.09     | 1.46        | 77     | 4     |
| 1:A:69:PRO:HB2   | 2:A:187:RCY:C1C  | 1.09     | 1.67        | 7      | 2     |
| 2:A:138:RCY:C1P  | 2:A:150:RCY:O1H  | 1.09     | 2.00        | 23     | 1     |
| 1:A:74:ASN:CA    | 2:A:173:RCY:C1P  | 1.09     | 2.30        | 27     | 1     |
| 1:A:65:THR:CG2   | 2:A:160:RCY:H1M  | 1.09     | 1.76        | 36     | 1     |
| 2:A:168:RCY:C1X  | 2:A:187:RCY:O1J  | 1.09     | 1.99        | 64     | 1     |
| 1:A:66:VAL:CB    | 2:A:160:RCY:O1H  | 1.09     | 1.99        | 68     | 1     |
| 2:A:168:RCY:C1V  | 2:A:176:RCY:O1H  | 1.09     | 2.00        | 71     | 1     |
| 2:A:160:RCY:O1G  | 2:A:168:RCY:O1G  | 1.09     | 1.70        | 92     | 1     |
| 1:A:60:CYS:HB2   | 2:A:160:RCY:O1H  | 1.09     | 1.38        | 93     | 14    |
| 2:A:138:RCY:H1ZB | 2:A:138:RCY:O1H  | 1.09     | 1.42        | 5      | 1     |
| 2:A:138:RCY:H1YA | 2:A:150:RCY:C1C  | 1.09     | 1.72        | 97     | 2     |
| 1:A:70:TRP:O     | 2:A:173:RCY:C1U  | 1.09     | 2.00        | 11     | 1     |
| 1:A:75:HIS:HA    | 2:A:176:RCY:C1L  | 1.09     | 1.77        | 13     | 1     |
| 2:A:176:RCY:H1ZB | 2:A:187:RCY:C1X  | 1.09     | 1.68        | 17     | 1     |
| 1:A:69:PRO:HD2   | 2:A:168:RCY:O1H  | 1.09     | 0.87        | 23     | 1     |
| 2:A:173:RCY:C1M  | 2:A:187:RCY:H1Y  | 1.09     | 1.66        | 31     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:O1G  | 1.09     | 1.99        | 37     | 1     |
| 2:A:150:RCY:C1M  | 2:A:187:RCY:H1VB | 1.09     | 1.77        | 38     | 1     |
| 2:A:130:RCY:O1J  | 2:A:160:RCY:C1V  | 1.09     | 2.01        | 67     | 3     |
| 1:A:70:TRP:CZ3   | 2:A:150:RCY:C1Y  | 1.09     | 2.11        | 47     | 1     |
| 2:A:176:RCY:O1H  | 2:A:176:RCY:H1VB | 1.09     | 1.47        | 70     | 3     |
| 2:A:173:RCY:H1ZB | 2:A:176:RCY:C1Z  | 1.09     | 1.63        | 60     | 1     |
| 2:A:130:RCY:H1YB | 2:A:160:RCY:H1M  | 1.09     | 1.11        | 61     | 1     |
| 1:A:69:PRO:HG3   | 2:A:173:RCY:C1Q  | 1.09     | 1.70        | 10     | 2     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:O1J  | 1.09     | 2.00        | 59     | 3     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:H1YA | 1.09     | 1.65        | 9      | 3     |
| 1:A:77:GLU:OE1   | 2:A:121:RCY:H1YA | 1.09     | 1.43        | 11     | 1     |
| 1:A:67:ILE:CG2   | 2:A:130:RCY:C1M  | 1.09     | 2.31        | 30     | 1     |
| 1:A:68:CYS:HB2   | 2:A:168:RCY:O1H  | 1.09     | 1.45        | 80     | 7     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:O1J  | 1.09     | 1.99        | 36     | 4     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:C1C  | 1.09     | 2.30        | 98     | 4     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:H1Y  | 1.09     | 1.76        | 48     | 2     |
| 2:A:168:RCY:H1MA | 2:A:173:RCY:C1M  | 1.09     | 1.76        | 70     | 1     |
| 1:A:71:GLU:HB2   | 2:A:168:RCY:H1CA | 1.09     | 1.21        | 86     | 1     |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:H1VB | 1.09     | 1.68        | 89     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:H1C  | 1.09     | 1.36        | 95     | 2     |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:C1V  | 1.09     | 2.31        | 93     | 2     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:C1M  | 1.09     | 2.29        | 69     | 5     |
| 2:A:173:RCY:O1J  | 2:A:187:RCY:C1V  | 1.09     | 2.00        | 8      | 3     |
| 1:A:71:GLU:HB3   | 2:A:168:RCY:C1L  | 1.09     | 1.70        | 57     | 5     |
| 1:A:73:CYS:HB3   | 2:A:173:RCY:O1H  | 1.09     | 1.46        | 62     | 14    |
| 2:A:138:RCY:C1V  | 2:A:173:RCY:O1J  | 1.09     | 2.00        | 15     | 1     |
| 2:A:130:RCY:O1G  | 2:A:130:RCY:C1Z  | 1.09     | 1.99        | 82     | 6     |
| 2:A:138:RCY:C1W  | 2:A:150:RCY:H1VB | 1.09     | 1.77        | 19     | 1     |
| 1:A:68:CYS:O     | 2:A:168:RCY:H1L  | 1.09     | 1.47        | 38     | 3     |
| 1:A:71:GLU:HG3   | 2:A:150:RCY:H1U  | 1.09     | 1.20        | 58     | 1     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:C1Q  | 1.09     | 1.77        | 58     | 1     |
| 2:A:173:RCY:H1ZA | 2:A:176:RCY:H1YA | 1.09     | 1.14        | 70     | 1     |
| 1:A:63:ASP:HB2   | 2:A:138:RCY:H1Z  | 1.09     | 1.09        | 73     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:176:RCY:C1Y  | 1.09     | 2.35        | 94     | 1     |
| 2:A:187:RCY:O1G  | 2:A:187:RCY:C1C  | 1.08     | 2.01        | 4      | 5     |
| 1:A:63:ASP:HA    | 2:A:160:RCY:H1ZB | 1.08     | 1.15        | 14     | 1     |
| 1:A:71:GLU:HA    | 2:A:173:RCY:H1YA | 1.08     | 1.10        | 33     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:160:RCY:C1C  | 1.08     | 2.21        | 34     | 1     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:C1Q  | 1.08     | 2.27        | 36     | 2     |
| 2:A:176:RCY:O1G  | 2:A:176:RCY:C1C  | 1.08     | 2.00        | 36     | 5     |
| 1:A:69:PRO:CB    | 2:A:176:RCY:H1YA | 1.08     | 1.78        | 72     | 1     |
| 1:A:76:CYS:O     | 2:A:176:RCY:O1H  | 1.08     | 1.71        | 73     | 1     |
| 2:A:138:RCY:H1C  | 2:A:160:RCY:H1LA | 1.08     | 1.16        | 73     | 1     |
| 1:A:70:TRP:CD1   | 2:A:176:RCY:H1YA | 1.08     | 1.69        | 80     | 2     |
| 1:A:70:TRP:CZ2   | 2:A:176:RCY:H1VA | 1.08     | 1.83        | 82     | 1     |
| 1:A:63:ASP:HB2   | 2:A:150:RCY:C1V  | 1.08     | 1.78        | 85     | 1     |
| 2:A:168:RCY:H1MA | 2:A:187:RCY:C1Y  | 1.08     | 1.75        | 7      | 1     |
| 2:A:168:RCY:C1P  | 2:A:173:RCY:H1Z  | 1.08     | 1.70        | 10     | 1     |
| 1:A:64:ILE:CB    | 2:A:168:RCY:C1Z  | 1.08     | 2.29        | 30     | 2     |
| 1:A:70:TRP:CD1   | 2:A:168:RCY:H1YB | 1.08     | 1.82        | 37     | 1     |
| 2:A:160:RCY:H1YA | 2:A:168:RCY:H1U  | 1.08     | 1.15        | 44     | 1     |
| 2:A:138:RCY:C1V  | 2:A:187:RCY:H1MA | 1.08     | 1.76        | 49     | 1     |
| 2:A:160:RCY:H1YB | 2:A:168:RCY:H1YB | 1.08     | 1.25        | 53     | 1     |
| 2:A:168:RCY:C1Q  | 2:A:176:RCY:C1Z  | 1.08     | 2.25        | 77     | 1     |
| 2:A:110:RCY:C1Y  | 2:A:121:RCY:H1VA | 1.08     | 1.73        | 81     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:150:RCY:H1YB | 2:A:187:RCY:H1CA | 1.08     | 1.10        | 83     | 1     |
| 1:A:73:CYS:SG    | 2:A:130:RCY:H1VA | 1.08     | 1.88        | 5      | 1     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:H1YA | 1.08     | 1.77        | 70     | 3     |
| 2:A:173:RCY:H1YA | 2:A:187:RCY:O1G  | 1.08     | 0.86        | 93     | 2     |
| 1:A:69:PRO:HG2   | 2:A:176:RCY:H1Z  | 1.08     | 1.15        | 66     | 1     |
| 1:A:69:PRO:HG3   | 2:A:176:RCY:C1Y  | 1.08     | 1.79        | 72     | 1     |
| 1:A:75:HIS:CG    | 2:A:176:RCY:H1C  | 1.08     | 1.82        | 84     | 1     |
| 2:A:138:RCY:H1YA | 2:A:150:RCY:N1V  | 1.08     | 1.62        | 97     | 1     |
| 1:A:70:TRP:N     | 2:A:187:RCY:H1CA | 1.08     | 1.62        | 7      | 1     |
| 2:A:173:RCY:O1G  | 2:A:176:RCY:C1V  | 1.08     | 1.99        | 19     | 3     |
| 2:A:168:RCY:C1L  | 2:A:173:RCY:C1M  | 1.08     | 2.27        | 49     | 2     |
| 2:A:150:RCY:C1Z  | 2:A:187:RCY:H1VA | 1.08     | 1.78        | 26     | 1     |
| 1:A:76:CYS:HB3   | 2:A:187:RCY:H1CB | 1.08     | 1.25        | 34     | 1     |
| 1:A:66:VAL:HB    | 2:A:160:RCY:C1Q  | 1.08     | 1.79        | 68     | 1     |
| 1:A:70:TRP:CA    | 2:A:173:RCY:H1Z  | 1.08     | 1.69        | 85     | 1     |
| 2:A:168:RCY:H1CB | 2:A:173:RCY:H1YA | 1.08     | 1.17        | 85     | 1     |
| 1:A:74:ASN:HA    | 2:A:176:RCY:H1VA | 1.08     | 1.26        | 100    | 1     |
| 2:A:160:RCY:H1Y  | 2:A:168:RCY:H1S  | 1.08     | 1.11        | 100    | 2     |
| 2:A:173:RCY:O1J  | 2:A:176:RCY:C1V  | 1.08     | 2.00        | 23     | 7     |
| 1:A:60:CYS:C     | 2:A:160:RCY:C1S  | 1.08     | 2.13        | 2      | 1     |
| 2:A:160:RCY:C1Z  | 2:A:173:RCY:H1ZA | 1.08     | 1.77        | 99     | 2     |
| 1:A:71:GLU:CB    | 2:A:168:RCY:H1LA | 1.08     | 1.79        | 32     | 3     |
| 2:A:160:RCY:H1MA | 2:A:168:RCY:C1P  | 1.08     | 1.79        | 34     | 1     |
| 1:A:66:VAL:CG1   | 2:A:160:RCY:O1J  | 1.08     | 2.01        | 68     | 1     |
| 2:A:138:RCY:O1H  | 2:A:160:RCY:C1P  | 1.08     | 2.02        | 69     | 1     |
| 2:A:176:RCY:H1Y  | 2:A:187:RCY:H1V  | 1.08     | 1.20        | 72     | 1     |
| 2:A:168:RCY:C1L  | 2:A:168:RCY:C1S  | 1.08     | 2.32        | 79     | 1     |
| 1:A:78:LEU:CD2   | 2:A:176:RCY:H1M  | 1.08     | 1.69        | 91     | 1     |
| 1:A:78:LEU:HD11  | 2:A:176:RCY:O1H  | 1.08     | 1.48        | 91     | 1     |
| 2:A:121:RCY:O1G  | 2:A:121:RCY:C1C  | 1.07     | 2.02        | 90     | 7     |
| 1:A:76:CYS:CA    | 2:A:176:RCY:C1L  | 1.07     | 2.18        | 31     | 7     |
| 2:A:168:RCY:H1LA | 2:A:173:RCY:H1Z  | 1.07     | 1.19        | 5      | 1     |
| 2:A:168:RCY:O1H  | 2:A:168:RCY:H1ZB | 1.07     | 1.48        | 30     | 6     |
| 1:A:71:GLU:CA    | 2:A:173:RCY:H1YA | 1.07     | 1.78        | 33     | 1     |
| 2:A:176:RCY:H1VA | 2:A:187:RCY:C1X  | 1.07     | 1.76        | 33     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:H1CA | 1.07     | 1.75        | 97     | 2     |
| 1:A:71:GLU:CA    | 2:A:168:RCY:C1M  | 1.07     | 2.30        | 37     | 2     |
| 2:A:173:RCY:C1C  | 2:A:173:RCY:O1G  | 1.07     | 2.02        | 86     | 4     |
| 2:A:110:RCY:H1VB | 2:A:110:RCY:O1G  | 1.07     | 1.44        | 74     | 2     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:H1YA | 1.07     | 1.84        | 49     | 2     |
| 2:A:176:RCY:O1H  | 2:A:176:RCY:N1V  | 1.07     | 1.80        | 57     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:130:RCY:C1M  | 2:A:160:RCY:O1G  | 1.07     | 2.02        | 61     | 1     |
| 2:A:130:RCY:C1L  | 2:A:160:RCY:C1P  | 1.07     | 2.23        | 62     | 1     |
| 1:A:69:PRO:HB3   | 2:A:176:RCY:C1Y  | 1.07     | 1.79        | 72     | 1     |
| 1:A:70:TRP:O     | 2:A:173:RCY:C1V  | 1.07     | 1.98        | 78     | 1     |
| 1:A:70:TRP:CB    | 2:A:173:RCY:C1Y  | 1.07     | 2.31        | 85     | 2     |
| 1:A:78:LEU:CD1   | 2:A:176:RCY:H1MA | 1.07     | 1.79        | 91     | 1     |
| 2:A:150:RCY:O1G  | 2:A:150:RCY:C1C  | 1.07     | 2.01        | 61     | 11    |
| 1:A:76:CYS:N     | 2:A:176:RCY:O1H  | 1.07     | 1.86        | 10     | 4     |
| 1:A:63:ASP:CA    | 2:A:160:RCY:H1ZB | 1.07     | 1.79        | 14     | 1     |
| 1:A:69:PRO:CD    | 2:A:168:RCY:C1S  | 1.07     | 2.31        | 75     | 2     |
| 1:A:68:CYS:CB    | 2:A:160:RCY:H1Z  | 1.07     | 1.75        | 19     | 1     |
| 1:A:62:THR:CG2   | 2:A:160:RCY:C1V  | 1.07     | 2.32        | 55     | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:H1V  | 1.07     | 1.62        | 62     | 2     |
| 1:A:69:PRO:N     | 2:A:168:RCY:H1VB | 1.07     | 1.62        | 63     | 1     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:C1S  | 1.07     | 2.30        | 72     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:187:RCY:C1Z  | 1.07     | 2.31        | 88     | 1     |
| 1:A:74:ASN:OD1   | 2:A:168:RCY:C1Y  | 1.07     | 2.02        | 91     | 1     |
| 2:A:173:RCY:H1U  | 2:A:176:RCY:C1Y  | 1.07     | 1.78        | 41     | 3     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:C1U  | 1.07     | 1.79        | 3      | 1     |
| 1:A:64:ILE:HD11  | 2:A:168:RCY:C1W  | 1.07     | 1.79        | 6      | 1     |
| 2:A:168:RCY:C1Y  | 2:A:173:RCY:H1Z  | 1.07     | 1.76        | 20     | 1     |
| 1:A:71:GLU:H     | 2:A:168:RCY:C1Q  | 1.07     | 1.57        | 22     | 1     |
| 1:A:62:THR:OG1   | 2:A:168:RCY:C1L  | 1.07     | 2.01        | 23     | 2     |
| 2:A:168:RCY:H1ZA | 2:A:176:RCY:H1VB | 1.07     | 1.08        | 31     | 1     |
| 1:A:62:THR:CG2   | 2:A:160:RCY:N1V  | 1.07     | 2.17        | 46     | 1     |
| 1:A:74:ASN:O     | 2:A:176:RCY:H1CB | 1.07     | 1.34        | 62     | 1     |
| 1:A:69:PRO:CG    | 2:A:168:RCY:H1YA | 1.07     | 1.79        | 66     | 1     |
| 1:A:78:LEU:HD11  | 2:A:176:RCY:H1S  | 1.07     | 1.24        | 69     | 1     |
| 2:A:168:RCY:O1H  | 2:A:173:RCY:C1M  | 1.07     | 1.95        | 71     | 1     |
| 2:A:121:RCY:O1H  | 2:A:121:RCY:C1Z  | 1.07     | 2.02        | 87     | 7     |
| 2:A:176:RCY:H1M  | 2:A:187:RCY:H1YB | 1.07     | 1.17        | 5      | 2     |
| 1:A:69:PRO:CG    | 2:A:168:RCY:H1CB | 1.07     | 1.78        | 8      | 1     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:H1CB | 1.07     | 1.74        | 8      | 1     |
| 2:A:130:RCY:O1G  | 2:A:130:RCY:C1C  | 1.07     | 2.02        | 86     | 8     |
| 2:A:150:RCY:H1Z  | 2:A:187:RCY:H1M  | 1.07     | 1.24        | 76     | 2     |
| 2:A:150:RCY:H1YA | 2:A:187:RCY:H1Y  | 1.07     | 1.19        | 32     | 2     |
| 1:A:73:CYS:C     | 2:A:173:RCY:C1L  | 1.07     | 2.21        | 33     | 5     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:N1V  | 1.07     | 2.23        | 41     | 1     |
| 2:A:173:RCY:H1CB | 2:A:176:RCY:C1M  | 1.07     | 1.75        | 52     | 1     |
| 2:A:160:RCY:H1ZB | 2:A:168:RCY:H1V  | 1.07     | 1.12        | 55     | 1     |
| 2:A:150:RCY:C1V  | 2:A:187:RCY:H1Y  | 1.07     | 1.79        | 66     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:67:ILE:C     | 2:A:173:RCY:H1M  | 1.07     | 1.68        | 80     | 1     |
| 1:A:70:TRP:CG    | 2:A:176:RCY:H1YB | 1.07     | 1.69        | 80     | 1     |
| 2:A:168:RCY:C1V  | 2:A:187:RCY:H1ZB | 1.07     | 1.79        | 85     | 1     |
| 2:A:176:RCY:H1V  | 2:A:187:RCY:O1J  | 1.07     | 0.91        | 91     | 1     |
| 2:A:138:RCY:O1J  | 2:A:160:RCY:H1VA | 1.07     | 1.49        | 92     | 1     |
| 1:A:60:CYS:HB2   | 2:A:168:RCY:H1CA | 1.07     | 1.09        | 95     | 1     |
| 2:A:176:RCY:O1H  | 2:A:176:RCY:C1Z  | 1.07     | 2.03        | 26     | 6     |
| 1:A:69:PRO:HD2   | 2:A:168:RCY:H1LA | 1.07     | 1.08        | 100    | 5     |
| 1:A:60:CYS:C     | 2:A:130:RCY:H1MA | 1.07     | 1.68        | 18     | 1     |
| 2:A:173:RCY:H1Z  | 2:A:176:RCY:H1YA | 1.07     | 1.17        | 72     | 2     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:O1H  | 1.07     | 1.48        | 38     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:H1ZA | 1.07     | 1.78        | 41     | 1     |
| 2:A:150:RCY:H1CB | 2:A:187:RCY:H1Y  | 1.07     | 1.10        | 81     | 2     |
| 1:A:66:VAL:HG23  | 2:A:168:RCY:H1V  | 1.07     | 1.16        | 80     | 1     |
| 1:A:64:ILE:CG2   | 2:A:168:RCY:H1Z  | 1.07     | 1.68        | 83     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:160:RCY:H1V  | 1.07     | 1.83        | 91     | 1     |
| 2:A:160:RCY:H1U  | 2:A:168:RCY:H1MA | 1.07     | 1.23        | 96     | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:H1ZA | 1.06     | 1.80        | 59     | 2     |
| 2:A:150:RCY:H1Y  | 2:A:187:RCY:H1YB | 1.06     | 1.22        | 41     | 3     |
| 2:A:160:RCY:H1L  | 2:A:168:RCY:O1G  | 1.06     | 1.44        | 26     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:H1Y  | 1.06     | 1.80        | 41     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:H1YB | 1.06     | 1.07        | 43     | 1     |
| 2:A:168:RCY:C1V  | 2:A:176:RCY:O1J  | 1.06     | 2.02        | 43     | 2     |
| 1:A:74:ASN:N     | 2:A:173:RCY:C1Q  | 1.06     | 2.17        | 82     | 3     |
| 1:A:74:ASN:H     | 2:A:173:RCY:C1L  | 1.06     | 1.64        | 82     | 2     |
| 1:A:68:CYS:O     | 2:A:168:RCY:C1S  | 1.06     | 2.02        | 83     | 2     |
| 2:A:173:RCY:H1CA | 2:A:176:RCY:O1J  | 1.06     | 1.03        | 56     | 2     |
| 2:A:138:RCY:H1YA | 2:A:187:RCY:C1C  | 1.06     | 1.73        | 59     | 2     |
| 2:A:130:RCY:H1ZA | 2:A:160:RCY:O1G  | 1.06     | 1.48        | 61     | 1     |
| 1:A:73:CYS:C     | 2:A:176:RCY:O1G  | 1.06     | 1.94        | 70     | 1     |
| 1:A:78:LEU:HG    | 2:A:176:RCY:C1M  | 1.06     | 1.69        | 91     | 1     |
| 1:A:69:PRO:HD2   | 2:A:168:RCY:H1S  | 1.06     | 1.07        | 75     | 5     |
| 2:A:121:RCY:O1G  | 2:A:121:RCY:C1Z  | 1.06     | 2.03        | 86     | 5     |
| 2:A:168:RCY:C1V  | 2:A:168:RCY:H1L  | 1.06     | 1.80        | 7      | 1     |
| 1:A:69:PRO:HG3   | 2:A:168:RCY:C1C  | 1.06     | 1.78        | 8      | 1     |
| 2:A:168:RCY:C1M  | 2:A:176:RCY:O1J  | 1.06     | 2.02        | 11     | 1     |
| 1:A:64:ILE:CG1   | 2:A:168:RCY:C1P  | 1.06     | 2.31        | 18     | 2     |
| 2:A:168:RCY:O1G  | 2:A:173:RCY:H1CB | 1.06     | 1.50        | 21     | 1     |
| 1:A:62:THR:HG21  | 2:A:160:RCY:N1V  | 1.06     | 1.66        | 46     | 1     |
| 1:A:77:GLU:HB2   | 2:A:173:RCY:H1CB | 1.06     | 1.10        | 51     | 1     |
| 1:A:62:THR:CG2   | 2:A:160:RCY:H1VB | 1.06     | 1.81        | 55     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:69:PRO:CG    | 2:A:168:RCY:H1M  | 1.06     | 1.76        | 66     | 1     |
| 2:A:168:RCY:O1J  | 2:A:187:RCY:C1X  | 1.06     | 2.03        | 70     | 1     |
| 2:A:176:RCY:H1YB | 2:A:187:RCY:H1V  | 1.06     | 1.22        | 72     | 1     |
| 2:A:150:RCY:C1M  | 2:A:168:RCY:H1YA | 1.06     | 1.76        | 74     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:160:RCY:H1Y  | 1.06     | 1.62        | 88     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:H1U  | 1.06     | 1.62        | 89     | 1     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:C1M  | 1.06     | 1.74        | 1      | 2     |
| 2:A:173:RCY:O1J  | 2:A:176:RCY:O1G  | 1.06     | 1.70        | 3      | 2     |
| 2:A:110:RCY:O1G  | 2:A:110:RCY:C1Z  | 1.06     | 2.03        | 56     | 7     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:C1M  | 1.06     | 1.79        | 9      | 2     |
| 1:A:71:GLU:HB3   | 2:A:168:RCY:H1L  | 1.06     | 1.07        | 11     | 4     |
| 1:A:76:CYS:HB2   | 2:A:176:RCY:O1H  | 1.06     | 1.36        | 44     | 6     |
| 2:A:138:RCY:H1C  | 2:A:173:RCY:H1Z  | 1.06     | 1.24        | 66     | 2     |
| 1:A:60:CYS:CA    | 2:A:130:RCY:C1M  | 1.06     | 2.27        | 18     | 1     |
| 2:A:160:RCY:H1VB | 2:A:168:RCY:H1L  | 1.06     | 1.28        | 24     | 1     |
| 1:A:77:GLU:HG3   | 2:A:173:RCY:H1VB | 1.06     | 1.20        | 32     | 1     |
| 1:A:70:TRP:CH2   | 2:A:160:RCY:H1U  | 1.06     | 1.86        | 34     | 1     |
| 1:A:77:GLU:CG    | 2:A:176:RCY:C1U  | 1.06     | 2.32        | 39     | 1     |
| 2:A:168:RCY:H1VB | 2:A:173:RCY:H1CB | 1.06     | 1.13        | 45     | 1     |
| 1:A:67:ILE:C     | 2:A:150:RCY:O1J  | 1.06     | 1.93        | 72     | 1     |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:H1ZA | 1.06     | 1.76        | 77     | 1     |
| 1:A:70:TRP:CG    | 2:A:176:RCY:H1YA | 1.06     | 1.71        | 80     | 2     |
| 2:A:168:RCY:H1S  | 2:A:173:RCY:C1Y  | 1.06     | 1.79        | 94     | 2     |
| 2:A:138:RCY:H1M  | 2:A:150:RCY:C1U  | 1.06     | 1.81        | 1      | 2     |
| 2:A:176:RCY:H1M  | 2:A:187:RCY:C1Z  | 1.06     | 1.80        | 5      | 1     |
| 1:A:77:GLU:OE1   | 2:A:176:RCY:H1VB | 1.06     | 1.45        | 7      | 1     |
| 1:A:61:GLY:O     | 2:A:160:RCY:H1L  | 1.06     | 1.51        | 19     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:O1H  | 1.06     | 2.00        | 27     | 1     |
| 1:A:59:GLY:C     | 2:A:160:RCY:H1L  | 1.06     | 1.67        | 28     | 5     |
| 1:A:67:ILE:HG22  | 2:A:173:RCY:C1C  | 1.06     | 1.73        | 31     | 1     |
| 1:A:71:GLU:HG3   | 2:A:168:RCY:C1P  | 1.06     | 1.80        | 32     | 1     |
| 1:A:77:GLU:HG2   | 2:A:176:RCY:H1U  | 1.06     | 1.20        | 39     | 1     |
| 2:A:138:RCY:N1R  | 2:A:150:RCY:O1G  | 1.06     | 1.88        | 41     | 1     |
| 1:A:70:TRP:NE1   | 2:A:121:RCY:H1Y  | 1.06     | 1.53        | 49     | 1     |
| 2:A:138:RCY:H1VB | 2:A:187:RCY:C1M  | 1.06     | 1.79        | 49     | 1     |
| 1:A:70:TRP:HB3   | 2:A:187:RCY:H1Z  | 1.06     | 1.20        | 51     | 1     |
| 1:A:69:PRO:HG2   | 2:A:187:RCY:C1Z  | 1.06     | 1.75        | 54     | 1     |
| 2:A:168:RCY:C1C  | 2:A:187:RCY:C1M  | 1.06     | 2.09        | 88     | 2     |
| 2:A:150:RCY:H1MA | 2:A:168:RCY:H1Y  | 1.06     | 1.12        | 74     | 1     |
| 1:A:72:ALA:HB1   | 2:A:173:RCY:H1S  | 1.06     | 1.22        | 78     | 1     |
| 1:A:71:GLU:N     | 2:A:187:RCY:O1G  | 1.06     | 1.88        | 92     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:65:THR:CB    | 2:A:160:RCY:C1Z  | 1.06     | 2.31        | 100    | 1     |
| 2:A:176:RCY:C1M  | 2:A:187:RCY:H1V  | 1.06     | 1.79        | 10     | 1     |
| 1:A:64:ILE:HD12  | 2:A:168:RCY:H1S  | 1.06     | 1.06        | 12     | 1     |
| 1:A:73:CYS:C     | 2:A:176:RCY:H1C  | 1.06     | 1.42        | 20     | 1     |
| 1:A:75:HIS:CA    | 2:A:173:RCY:H1VA | 1.06     | 1.65        | 22     | 1     |
| 2:A:150:RCY:H1CA | 2:A:187:RCY:H1CA | 1.06     | 1.28        | 50     | 1     |
| 2:A:150:RCY:C1V  | 2:A:176:RCY:O1G  | 1.06     | 2.03        | 82     | 1     |
| 1:A:78:LEU:HD23  | 2:A:187:RCY:C1C  | 1.06     | 1.60        | 91     | 1     |
| 1:A:71:GLU:HA    | 2:A:168:RCY:O1H  | 1.06     | 1.50        | 93     | 1     |
| 2:A:168:RCY:C1S  | 2:A:173:RCY:H1YB | 1.06     | 1.80        | 94     | 1     |
| 2:A:168:RCY:H1ZA | 2:A:187:RCY:C1Y  | 1.06     | 1.75        | 97     | 1     |
| 2:A:173:RCY:H1M  | 2:A:176:RCY:H1YA | 1.05     | 1.06        | 2      | 1     |
| 1:A:70:TRP:CA    | 2:A:173:RCY:O1H  | 1.05     | 2.04        | 14     | 1     |
| 2:A:138:RCY:C1P  | 2:A:160:RCY:H1U  | 1.05     | 1.74        | 18     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:176:RCY:H1VB | 1.05     | 1.81        | 31     | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:H1L  | 1.05     | 1.81        | 35     | 1     |
| 1:A:70:TRP:HZ2   | 2:A:121:RCY:H1ZA | 1.05     | 1.02        | 41     | 1     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:C1Y  | 1.05     | 2.33        | 48     | 2     |
| 1:A:59:GLY:HA3   | 2:A:160:RCY:H1VA | 1.05     | 1.13        | 83     | 1     |
| 1:A:63:ASP:CB    | 2:A:150:RCY:C1X  | 1.05     | 2.22        | 85     | 1     |
| 1:A:64:ILE:CD1   | 2:A:187:RCY:C1M  | 1.05     | 2.23        | 85     | 1     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:H1ZB | 1.05     | 1.11        | 87     | 1     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:C1L  | 1.05     | 2.34        | 88     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:160:RCY:C1X  | 1.05     | 2.38        | 34     | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:O1G  | 1.05     | 2.05        | 36     | 2     |
| 2:A:150:RCY:H1M  | 2:A:187:RCY:H1VB | 1.05     | 1.08        | 38     | 1     |
| 2:A:173:RCY:N1R  | 2:A:176:RCY:H1S  | 1.05     | 1.66        | 38     | 1     |
| 1:A:64:ILE:HD13  | 2:A:121:RCY:O1G  | 1.05     | 1.46        | 68     | 1     |
| 1:A:60:CYS:N     | 2:A:160:RCY:C1V  | 1.05     | 2.06        | 83     | 2     |
| 1:A:71:GLU:C     | 2:A:173:RCY:O1G  | 1.05     | 1.87        | 83     | 1     |
| 2:A:138:RCY:H1VA | 2:A:187:RCY:O1J  | 1.05     | 1.34        | 96     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:176:RCY:C1Z  | 1.05     | 2.35        | 11     | 3     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:C1V  | 1.05     | 1.91        | 27     | 2     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:C1X  | 1.05     | 1.80        | 38     | 1     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:C1P  | 1.05     | 2.34        | 38     | 1     |
| 1:A:66:VAL:O     | 2:A:168:RCY:C1Q  | 1.05     | 2.03        | 51     | 1     |
| 2:A:176:RCY:O1G  | 2:A:187:RCY:O1G  | 1.05     | 1.72        | 88     | 1     |
| 1:A:78:LEU:CD2   | 2:A:176:RCY:C1Y  | 1.05     | 2.22        | 91     | 1     |
| 1:A:64:ILE:HG23  | 2:A:168:RCY:H1L  | 1.05     | 1.15        | 77     | 3     |
| 1:A:73:CYS:HB2   | 2:A:173:RCY:O1H  | 1.05     | 1.32        | 77     | 14    |
| 1:A:69:PRO:CB    | 2:A:173:RCY:N1V  | 1.05     | 2.20        | 9      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:110:RCY:O1G  | 2:A:110:RCY:C1C  | 1.05     | 2.05        | 77     | 8     |
| 2:A:168:RCY:H1ZA | 2:A:176:RCY:C1W  | 1.05     | 1.82        | 11     | 1     |
| 2:A:173:RCY:H1LA | 2:A:176:RCY:C1V  | 1.05     | 1.78        | 11     | 2     |
| 2:A:138:RCY:H1VA | 2:A:168:RCY:H1CA | 1.05     | 1.25        | 19     | 1     |
| 1:A:66:VAL:HA    | 2:A:160:RCY:H1VA | 1.05     | 1.28        | 21     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:173:RCY:C1V  | 1.05     | 1.80        | 37     | 1     |
| 2:A:176:RCY:C1Q  | 2:A:187:RCY:H1ZA | 1.05     | 1.67        | 60     | 1     |
| 1:A:71:GLU:OE2   | 2:A:121:RCY:H1V  | 1.05     | 1.51        | 78     | 1     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:H1Z  | 1.05     | 1.19        | 78     | 1     |
| 1:A:70:TRP:CH2   | 2:A:176:RCY:H1V  | 1.05     | 1.86        | 4      | 1     |
| 2:A:168:RCY:H1VB | 2:A:176:RCY:C1Y  | 1.05     | 1.81        | 98     | 2     |
| 2:A:160:RCY:O1G  | 2:A:160:RCY:C1Z  | 1.05     | 2.04        | 30     | 1     |
| 1:A:71:GLU:HA    | 2:A:168:RCY:H1MA | 1.05     | 1.21        | 37     | 1     |
| 2:A:150:RCY:C1V  | 2:A:187:RCY:H1U  | 1.05     | 1.79        | 38     | 1     |
| 2:A:150:RCY:H1V  | 2:A:160:RCY:C1X  | 1.05     | 1.80        | 42     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:C1X  | 1.05     | 2.35        | 70     | 2     |
| 2:A:138:RCY:H1CA | 2:A:150:RCY:H1Y  | 1.05     | 1.18        | 59     | 1     |
| 1:A:73:CYS:CA    | 2:A:176:RCY:O1G  | 1.05     | 2.03        | 70     | 1     |
| 1:A:69:PRO:HD3   | 2:A:168:RCY:H1S  | 1.05     | 1.20        | 75     | 1     |
| 1:A:63:ASP:HB3   | 2:A:150:RCY:H1CB | 1.05     | 1.08        | 85     | 1     |
| 2:A:150:RCY:O1J  | 2:A:173:RCY:H1YA | 1.05     | 1.47        | 89     | 1     |
| 1:A:64:ILE:CD1   | 2:A:160:RCY:H1M  | 1.04     | 1.80        | 1      | 2     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:H1M  | 1.04     | 1.19        | 9      | 2     |
| 1:A:70:TRP:H     | 2:A:168:RCY:C1L  | 1.04     | 1.58        | 28     | 1     |
| 2:A:168:RCY:C1V  | 2:A:173:RCY:C1M  | 1.04     | 2.20        | 29     | 1     |
| 2:A:168:RCY:O1G  | 2:A:168:RCY:C1Z  | 1.04     | 2.04        | 65     | 5     |
| 1:A:64:ILE:CG2   | 2:A:168:RCY:C1C  | 1.04     | 2.34        | 54     | 1     |
| 1:A:63:ASP:HB2   | 2:A:160:RCY:H1C  | 1.04     | 1.26        | 63     | 1     |
| 2:A:168:RCY:H1MA | 2:A:176:RCY:C1Z  | 1.04     | 1.80        | 64     | 1     |
| 2:A:150:RCY:H1Y  | 2:A:187:RCY:H1U  | 1.04     | 1.27        | 78     | 1     |
| 2:A:110:RCY:C1V  | 2:A:121:RCY:C1M  | 1.04     | 2.28        | 5      | 1     |
| 2:A:168:RCY:O1J  | 2:A:176:RCY:C1Z  | 1.04     | 2.03        | 17     | 1     |
| 1:A:61:GLY:O     | 2:A:160:RCY:C1L  | 1.04     | 2.05        | 19     | 1     |
| 1:A:73:CYS:C     | 2:A:176:RCY:H1CB | 1.04     | 1.67        | 20     | 1     |
| 2:A:121:RCY:H1Y  | 2:A:176:RCY:C1L  | 1.04     | 1.82        | 35     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:C1C  | 1.04     | 2.36        | 64     | 3     |
| 2:A:176:RCY:H1C  | 2:A:187:RCY:O1G  | 1.04     | 0.83        | 61     | 1     |
| 1:A:70:TRP:CD1   | 2:A:176:RCY:H1Y  | 1.04     | 1.85        | 80     | 1     |
| 2:A:150:RCY:H1YB | 2:A:187:RCY:C1C  | 1.04     | 1.83        | 83     | 1     |
| 1:A:70:TRP:HB2   | 2:A:173:RCY:H1Y  | 1.04     | 1.17        | 85     | 1     |
| 1:A:70:TRP:HZ3   | 2:A:160:RCY:H1V  | 1.04     | 0.91        | 91     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:173:RCY:O1J  | 2:A:187:RCY:H1MA | 1.04     | 1.49        | 93     | 1     |
| 1:A:69:PRO:HD2   | 2:A:168:RCY:C1S  | 1.04     | 1.81        | 75     | 6     |
| 2:A:168:RCY:C1C  | 2:A:176:RCY:O1J  | 1.04     | 2.04        | 43     | 3     |
| 2:A:168:RCY:N1R  | 2:A:173:RCY:C1Z  | 1.04     | 2.21        | 10     | 1     |
| 2:A:168:RCY:H1Z  | 2:A:176:RCY:H1Z  | 1.04     | 1.22        | 11     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:H1YB | 1.04     | 1.83        | 26     | 2     |
| 2:A:176:RCY:H1CB | 2:A:187:RCY:C1W  | 1.04     | 1.82        | 26     | 1     |
| 1:A:76:CYS:SG    | 2:A:173:RCY:H1C  | 1.04     | 1.91        | 30     | 1     |
| 1:A:66:VAL:CG1   | 2:A:121:RCY:O1G  | 1.04     | 2.06        | 34     | 1     |
| 2:A:160:RCY:H1MA | 2:A:168:RCY:C1L  | 1.04     | 1.81        | 34     | 1     |
| 2:A:150:RCY:H1VB | 2:A:187:RCY:H1U  | 1.04     | 1.30        | 38     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:187:RCY:H1C  | 1.04     | 1.70        | 74     | 3     |
| 1:A:64:ILE:HD13  | 2:A:160:RCY:H1Y  | 1.04     | 1.22        | 49     | 1     |
| 1:A:72:ALA:N     | 2:A:173:RCY:O1H  | 1.04     | 1.89        | 50     | 1     |
| 2:A:138:RCY:O1J  | 2:A:176:RCY:H1C  | 1.04     | 1.46        | 51     | 1     |
| 2:A:160:RCY:C1V  | 2:A:176:RCY:H1VA | 1.04     | 1.81        | 57     | 1     |
| 2:A:168:RCY:H1LA | 2:A:173:RCY:H1YA | 1.04     | 1.13        | 62     | 1     |
| 1:A:59:GLY:CA    | 2:A:160:RCY:H1M  | 1.04     | 1.81        | 78     | 1     |
| 2:A:138:RCY:C1L  | 2:A:150:RCY:H1VB | 1.04     | 1.81        | 98     | 1     |
| 2:A:121:RCY:O1H  | 2:A:121:RCY:C1C  | 1.04     | 2.05        | 69     | 12    |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:C1Y  | 1.04     | 2.32        | 2      | 3     |
| 2:A:173:RCY:H1U  | 2:A:176:RCY:H1YB | 1.04     | 1.26        | 2      | 2     |
| 1:A:64:ILE:HD11  | 2:A:160:RCY:C1W  | 1.04     | 1.81        | 6      | 2     |
| 1:A:62:THR:HG23  | 2:A:160:RCY:O1H  | 1.04     | 1.49        | 8      | 1     |
| 2:A:168:RCY:H1CB | 2:A:173:RCY:H1Y  | 1.04     | 1.25        | 39     | 2     |
| 1:A:61:GLY:O     | 2:A:168:RCY:O1H  | 1.04     | 1.73        | 11     | 1     |
| 2:A:150:RCY:O1H  | 2:A:150:RCY:C1C  | 1.04     | 2.06        | 81     | 5     |
| 2:A:138:RCY:C1M  | 2:A:150:RCY:H1V  | 1.04     | 1.71        | 19     | 3     |
| 1:A:70:TRP:HE3   | 2:A:173:RCY:H1ZA | 1.04     | 1.08        | 26     | 1     |
| 2:A:173:RCY:H1Z  | 2:A:176:RCY:H1S  | 1.04     | 1.07        | 29     | 1     |
| 2:A:160:RCY:H1MA | 2:A:168:RCY:C1Q  | 1.04     | 1.83        | 34     | 1     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:C1L  | 1.04     | 1.83        | 35     | 1     |
| 1:A:62:THR:CA    | 2:A:138:RCY:C1Z  | 1.04     | 2.34        | 38     | 1     |
| 2:A:160:RCY:C1C  | 2:A:168:RCY:N1R  | 1.04     | 2.16        | 39     | 1     |
| 2:A:173:RCY:H1ZA | 2:A:187:RCY:H1ZA | 1.04     | 1.24        | 40     | 1     |
| 2:A:150:RCY:H1YB | 2:A:176:RCY:H1Z  | 1.04     | 1.24        | 42     | 1     |
| 2:A:173:RCY:C1Q  | 2:A:176:RCY:C1M  | 1.04     | 2.35        | 67     | 3     |
| 1:A:69:PRO:O     | 2:A:173:RCY:H1S  | 1.04     | 1.50        | 75     | 1     |
| 2:A:130:RCY:C1Z  | 2:A:130:RCY:C1Y  | 1.04     | 2.35        | 79     | 1     |
| 2:A:168:RCY:H1MA | 2:A:187:RCY:O1J  | 1.04     | 1.53        | 82     | 1     |
| 1:A:64:ILE:HD12  | 2:A:187:RCY:H1M  | 1.04     | 1.27        | 85     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:130:RCY:H1V  | 2:A:173:RCY:H1YA | 1.04     | 1.29        | 94     | 1     |
| 1:A:71:GLU:OE1   | 2:A:168:RCY:C1V  | 1.04     | 2.05        | 99     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:H1Y  | 1.04     | 1.82        | 2      | 2     |
| 1:A:64:ILE:HG23  | 1:A:65:THR:H     | 1.04     | 1.09        | 49     | 7     |
| 1:A:69:PRO:O     | 2:A:173:RCY:O1H  | 1.04     | 1.73        | 64     | 3     |
| 2:A:150:RCY:H1ZA | 2:A:187:RCY:H1YB | 1.04     | 1.19        | 9      | 2     |
| 1:A:64:ILE:HG13  | 2:A:160:RCY:H1YA | 1.04     | 1.17        | 19     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:176:RCY:C1P  | 1.04     | 2.36        | 20     | 1     |
| 1:A:68:CYS:N     | 2:A:176:RCY:C1Y  | 1.04     | 2.02        | 22     | 1     |
| 2:A:138:RCY:H1YA | 2:A:150:RCY:C1Y  | 1.04     | 1.66        | 89     | 2     |
| 1:A:71:GLU:CA    | 2:A:168:RCY:C1C  | 1.04     | 2.36        | 29     | 1     |
| 2:A:168:RCY:O1J  | 2:A:187:RCY:H1V  | 1.04     | 1.45        | 70     | 2     |
| 2:A:150:RCY:C1C  | 2:A:187:RCY:H1CA | 1.04     | 1.82        | 50     | 1     |
| 2:A:173:RCY:O1H  | 2:A:176:RCY:H1V  | 1.04     | 1.53        | 62     | 2     |
| 1:A:69:PRO:HA    | 2:A:173:RCY:C1Y  | 1.04     | 1.79        | 72     | 1     |
| 1:A:67:ILE:O     | 2:A:173:RCY:H1M  | 1.04     | 1.51        | 80     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:H1V  | 1.04     | 1.80        | 81     | 1     |
| 1:A:64:ILE:HG23  | 2:A:168:RCY:C1L  | 1.03     | 1.82        | 1      | 2     |
| 2:A:138:RCY:H1YA | 2:A:187:RCY:H1Y  | 1.03     | 1.22        | 86     | 2     |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:C1C  | 1.03     | 1.08        | 7      | 2     |
| 2:A:168:RCY:C1M  | 2:A:187:RCY:H1YB | 1.03     | 1.77        | 7      | 1     |
| 2:A:173:RCY:O1H  | 2:A:173:RCY:C1C  | 1.03     | 2.06        | 9      | 4     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:H1S  | 1.03     | 1.77        | 26     | 1     |
| 1:A:59:GLY:HA2   | 2:A:160:RCY:H1LA | 1.03     | 1.22        | 28     | 1     |
| 1:A:70:TRP:HB2   | 2:A:121:RCY:H1VA | 1.03     | 1.28        | 30     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:176:RCY:H1M  | 1.03     | 1.04        | 37     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:C1Z  | 1.03     | 2.36        | 41     | 1     |
| 2:A:173:RCY:H1M  | 2:A:176:RCY:O1H  | 1.03     | 1.49        | 52     | 3     |
| 1:A:67:ILE:HG13  | 2:A:176:RCY:C1C  | 1.03     | 1.82        | 53     | 2     |
| 1:A:73:CYS:O     | 2:A:176:RCY:O1G  | 1.03     | 1.76        | 70     | 1     |
| 1:A:67:ILE:CG2   | 2:A:173:RCY:H1YB | 1.03     | 1.82        | 80     | 1     |
| 1:A:67:ILE:CB    | 2:A:173:RCY:C1Y  | 1.03     | 2.24        | 80     | 1     |
| 2:A:176:RCY:C1S  | 2:A:187:RCY:H1Z  | 1.03     | 1.82        | 80     | 1     |
| 1:A:70:TRP:CB    | 2:A:173:RCY:H1Y  | 1.03     | 1.82        | 85     | 1     |
| 1:A:71:GLU:CD    | 2:A:168:RCY:C1V  | 1.03     | 2.23        | 93     | 2     |
| 2:A:173:RCY:C1P  | 2:A:176:RCY:O1H  | 1.03     | 2.05        | 96     | 1     |
| 2:A:176:RCY:H1VB | 2:A:187:RCY:H1M  | 1.03     | 1.30        | 96     | 1     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:H1Y  | 1.03     | 1.83        | 9      | 1     |
| 2:A:138:RCY:O1J  | 2:A:173:RCY:H1ZB | 1.03     | 1.52        | 15     | 1     |
| 1:A:66:VAL:O     | 2:A:168:RCY:H1CB | 1.03     | 1.37        | 58     | 2     |
| 2:A:160:RCY:C1W  | 2:A:168:RCY:H1V  | 1.03     | 1.81        | 48     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:59:GLY:HA2   | 2:A:160:RCY:C1Z  | 1.03     | 1.84        | 49     | 1     |
| 1:A:70:TRP:HA    | 2:A:173:RCY:H1ZA | 1.03     | 1.04        | 49     | 2     |
| 2:A:138:RCY:H1YA | 2:A:150:RCY:O1J  | 1.03     | 1.52        | 75     | 3     |
| 1:A:77:GLU:CA    | 2:A:176:RCY:C1P  | 1.03     | 2.30        | 55     | 1     |
| 1:A:59:GLY:C     | 2:A:160:RCY:H1LA | 1.03     | 1.66        | 57     | 3     |
| 2:A:168:RCY:C1V  | 2:A:173:RCY:O1H  | 1.03     | 2.06        | 76     | 2     |
| 1:A:69:PRO:CD    | 2:A:168:RCY:H1VB | 1.03     | 1.80        | 63     | 1     |
| 2:A:168:RCY:N1R  | 2:A:176:RCY:C1M  | 1.03     | 2.17        | 71     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:C1C  | 1.03     | 2.36        | 78     | 2     |
| 2:A:150:RCY:H1VB | 2:A:176:RCY:O1G  | 1.03     | 1.51        | 82     | 1     |
| 1:A:71:GLU:HG2   | 2:A:176:RCY:C1Y  | 1.03     | 1.83        | 92     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:187:RCY:O1G  | 1.03     | 1.42        | 92     | 1     |
| 1:A:74:ASN:C     | 2:A:173:RCY:O1G  | 1.03     | 1.84        | 91     | 2     |
| 2:A:168:RCY:H1Z  | 2:A:187:RCY:C1Z  | 1.03     | 1.83        | 17     | 1     |
| 2:A:150:RCY:H1YB | 2:A:187:RCY:C1W  | 1.03     | 1.84        | 41     | 1     |
| 2:A:160:RCY:C1U  | 2:A:168:RCY:H1YA | 1.03     | 1.82        | 41     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:H1L  | 1.03     | 1.82        | 45     | 1     |
| 1:A:70:TRP:CD2   | 2:A:121:RCY:H1V  | 1.03     | 1.87        | 49     | 1     |
| 1:A:69:PRO:HD3   | 2:A:168:RCY:C1V  | 1.03     | 1.81        | 63     | 1     |
| 2:A:138:RCY:H1CA | 2:A:150:RCY:H1CB | 1.03     | 1.23        | 66     | 1     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:H1CB | 1.03     | 1.06        | 67     | 1     |
| 2:A:168:RCY:H1CA | 2:A:187:RCY:H1MA | 1.03     | 1.12        | 70     | 1     |
| 1:A:69:PRO:CB    | 2:A:176:RCY:C1Y  | 1.03     | 2.37        | 72     | 1     |
| 1:A:72:ALA:HB2   | 2:A:173:RCY:H1MA | 1.03     | 1.24        | 80     | 1     |
| 1:A:69:PRO:CG    | 2:A:187:RCY:C1Y  | 1.03     | 2.36        | 87     | 1     |
| 1:A:71:GLU:OE2   | 2:A:130:RCY:H1MA | 1.03     | 1.52        | 94     | 1     |
| 2:A:121:RCY:H1ZA | 2:A:168:RCY:H1L  | 1.03     | 1.24        | 94     | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:O1J  | 1.03     | 2.05        | 11     | 2     |
| 2:A:138:RCY:H1CB | 2:A:187:RCY:H1YA | 1.03     | 1.29        | 21     | 1     |
| 1:A:68:CYS:H     | 2:A:168:RCY:H1S  | 1.03     | 0.95        | 38     | 5     |
| 1:A:76:CYS:HB2   | 2:A:173:RCY:C1C  | 1.03     | 1.81        | 29     | 2     |
| 2:A:110:RCY:O1H  | 2:A:110:RCY:C1C  | 1.03     | 2.06        | 39     | 2     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:H1YB | 1.03     | 1.82        | 32     | 1     |
| 1:A:70:TRP:CE2   | 2:A:121:RCY:H1V  | 1.03     | 1.88        | 49     | 1     |
| 1:A:64:ILE:HG12  | 2:A:160:RCY:H1VA | 1.03     | 1.03        | 54     | 1     |
| 2:A:173:RCY:C1W  | 2:A:176:RCY:C1M  | 1.03     | 2.37        | 87     | 2     |
| 1:A:70:TRP:CE3   | 2:A:176:RCY:H1M  | 1.03     | 1.89        | 80     | 1     |
| 1:A:71:GLU:CG    | 2:A:176:RCY:C1Y  | 1.03     | 2.35        | 92     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:C1P  | 1.03     | 1.82        | 1      | 1     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:C1C  | 1.03     | 2.36        | 4      | 1     |
| 2:A:160:RCY:H1YB | 2:A:173:RCY:H1ZB | 1.03     | 1.31        | 4      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:160:RCY:H1Y  | 2:A:173:RCY:H1Z  | 1.03     | 1.29        | 41     | 2     |
| 2:A:138:RCY:C1P  | 2:A:150:RCY:O1G  | 1.03     | 2.07        | 77     | 2     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:C1M  | 1.03     | 2.24        | 52     | 2     |
| 2:A:138:RCY:C1V  | 2:A:187:RCY:C1Z  | 1.03     | 2.37        | 49     | 1     |
| 2:A:168:RCY:C1U  | 2:A:187:RCY:O1J  | 1.03     | 0.73        | 64     | 1     |
| 2:A:173:RCY:H1S  | 2:A:176:RCY:H1M  | 1.03     | 1.31        | 67     | 1     |
| 1:A:63:ASP:O     | 2:A:160:RCY:C1Y  | 1.03     | 2.07        | 78     | 1     |
| 1:A:65:THR:CG2   | 2:A:168:RCY:O1G  | 1.03     | 2.06        | 80     | 1     |
| 1:A:66:VAL:CG1   | 2:A:121:RCY:C1Y  | 1.03     | 1.82        | 83     | 1     |
| 1:A:71:GLU:CA    | 2:A:168:RCY:O1H  | 1.03     | 2.06        | 93     | 1     |
| 2:A:168:RCY:C1M  | 2:A:176:RCY:H1YB | 1.03     | 1.82        | 98     | 1     |
| 2:A:168:RCY:H1ZA | 2:A:187:RCY:N1R  | 1.03     | 1.62        | 100    | 1     |
| 2:A:138:RCY:O1H  | 2:A:138:RCY:C1Z  | 1.02     | 2.07        | 40     | 7     |
| 1:A:68:CYS:HB3   | 2:A:168:RCY:O1H  | 1.02     | 1.26        | 59     | 7     |
| 1:A:65:THR:CB    | 2:A:130:RCY:H1C  | 1.02     | 1.72        | 9      | 1     |
| 2:A:138:RCY:H1YB | 2:A:150:RCY:H1Y  | 1.02     | 1.03        | 9      | 1     |
| 2:A:138:RCY:C1L  | 2:A:150:RCY:H1CA | 1.02     | 1.84        | 9      | 1     |
| 2:A:187:RCY:O1G  | 2:A:187:RCY:C1Z  | 1.02     | 2.05        | 22     | 3     |
| 2:A:138:RCY:H1VA | 2:A:150:RCY:C1Y  | 1.02     | 1.84        | 97     | 2     |
| 2:A:150:RCY:H1M  | 2:A:187:RCY:C1V  | 1.02     | 1.82        | 38     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:H1ZA | 1.02     | 1.83        | 53     | 3     |
| 2:A:173:RCY:H1VB | 2:A:187:RCY:H1ZA | 1.02     | 1.03        | 53     | 1     |
| 2:A:130:RCY:H1LA | 2:A:160:RCY:O1G  | 1.02     | 1.52        | 62     | 1     |
| 1:A:73:CYS:N     | 2:A:173:RCY:H1L  | 1.02     | 1.69        | 83     | 1     |
| 2:A:168:RCY:H1Y  | 2:A:173:RCY:O1G  | 1.02     | 1.54        | 91     | 1     |
| 1:A:64:ILE:HG21  | 2:A:168:RCY:H1M  | 1.02     | 1.31        | 95     | 1     |
| 2:A:168:RCY:C1W  | 2:A:187:RCY:C1S  | 1.02     | 2.38        | 3      | 2     |
| 2:A:168:RCY:H1L  | 2:A:173:RCY:C1X  | 1.02     | 1.82        | 4      | 1     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:H1YB | 1.02     | 1.25        | 9      | 2     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:C1L  | 1.02     | 2.38        | 15     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:187:RCY:C1Z  | 1.02     | 2.38        | 31     | 2     |
| 2:A:168:RCY:H1C  | 2:A:173:RCY:H1YB | 1.02     | 1.29        | 21     | 1     |
| 2:A:138:RCY:C1U  | 2:A:150:RCY:C1C  | 1.02     | 1.87        | 43     | 1     |
| 2:A:160:RCY:N1R  | 2:A:168:RCY:H1C  | 1.02     | 1.68        | 49     | 3     |
| 2:A:160:RCY:H1ZB | 2:A:168:RCY:H1MA | 1.02     | 1.30        | 52     | 1     |
| 2:A:168:RCY:H1CB | 2:A:176:RCY:N1V  | 1.02     | 1.69        | 59     | 1     |
| 1:A:75:HIS:O     | 2:A:173:RCY:H1C  | 1.02     | 1.51        | 73     | 1     |
| 2:A:176:RCY:H1CA | 2:A:187:RCY:H1CA | 1.02     | 1.31        | 75     | 1     |
| 2:A:168:RCY:H1V  | 2:A:176:RCY:C1M  | 1.02     | 1.31        | 76     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:H1U  | 1.02     | 1.82        | 77     | 1     |
| 1:A:74:ASN:HA    | 2:A:176:RCY:O1G  | 1.02     | 0.81        | 78     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:160:RCY:H1Z  | 2:A:173:RCY:H1ZA | 1.02     | 1.20        | 99     | 1     |
| 2:A:176:RCY:H1U  | 2:A:187:RCY:H1V  | 1.02     | 1.15        | 4      | 1     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:H1YA | 1.02     | 1.14        | 9      | 2     |
| 2:A:160:RCY:C1C  | 2:A:173:RCY:H1Z  | 1.02     | 1.54        | 11     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:176:RCY:C1W  | 1.02     | 2.37        | 11     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:187:RCY:H1Z  | 1.02     | 1.30        | 21     | 1     |
| 1:A:67:ILE:HG12  | 2:A:168:RCY:C1C  | 1.02     | 1.85        | 27     | 1     |
| 1:A:67:ILE:CG2   | 2:A:130:RCY:H1MA | 1.02     | 1.85        | 30     | 1     |
| 2:A:130:RCY:O1G  | 2:A:160:RCY:H1Y  | 1.02     | 1.54        | 40     | 1     |
| 1:A:70:TRP:CE2   | 2:A:121:RCY:C1V  | 1.02     | 2.42        | 49     | 1     |
| 2:A:160:RCY:H1U  | 2:A:168:RCY:H1CB | 1.02     | 1.05        | 49     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:H1C  | 1.02     | 1.83        | 55     | 1     |
| 2:A:168:RCY:H1ZA | 2:A:173:RCY:H1ZB | 1.02     | 1.10        | 60     | 1     |
| 1:A:67:ILE:HG22  | 2:A:173:RCY:H1L  | 1.02     | 1.26        | 73     | 1     |
| 1:A:67:ILE:HG22  | 2:A:173:RCY:H1M  | 1.02     | 1.09        | 80     | 1     |
| 1:A:69:PRO:HG3   | 2:A:187:RCY:H1YB | 1.02     | 1.17        | 87     | 1     |
| 2:A:160:RCY:H1YB | 2:A:168:RCY:C1S  | 1.02     | 1.79        | 100    | 1     |
| 2:A:160:RCY:H1ZB | 2:A:168:RCY:C1Y  | 1.02     | 1.83        | 43     | 3     |
| 2:A:168:RCY:O1G  | 2:A:173:RCY:C1C  | 1.02     | 2.07        | 21     | 2     |
| 1:A:75:HIS:CA    | 2:A:173:RCY:C1V  | 1.02     | 2.21        | 22     | 1     |
| 2:A:130:RCY:H1ZB | 2:A:160:RCY:O1G  | 1.02     | 1.54        | 22     | 1     |
| 2:A:110:RCY:H1Z  | 2:A:121:RCY:O1J  | 1.02     | 1.53        | 33     | 1     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:C1S  | 1.02     | 1.85        | 35     | 1     |
| 1:A:72:ALA:HB3   | 2:A:168:RCY:O1J  | 1.02     | 1.52        | 36     | 1     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:C1L  | 1.02     | 2.27        | 36     | 1     |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:C1Q  | 1.02     | 2.34        | 38     | 2     |
| 2:A:138:RCY:H1Y  | 2:A:187:RCY:O1H  | 1.02     | 1.51        | 59     | 2     |
| 1:A:69:PRO:CB    | 2:A:176:RCY:O1G  | 1.02     | 2.07        | 64     | 1     |
| 2:A:130:RCY:H1C  | 2:A:160:RCY:C1S  | 1.02     | 1.85        | 66     | 1     |
| 2:A:138:RCY:C1Q  | 2:A:160:RCY:C1C  | 1.02     | 2.38        | 69     | 1     |
| 1:A:66:VAL:H     | 2:A:150:RCY:C1Y  | 1.02     | 1.66        | 72     | 1     |
| 1:A:64:ILE:HG21  | 2:A:168:RCY:H1ZA | 1.02     | 1.07        | 83     | 1     |
| 1:A:71:GLU:HB2   | 2:A:168:RCY:C1C  | 1.02     | 1.84        | 86     | 1     |
| 1:A:74:ASN:CG    | 2:A:168:RCY:C1Y  | 1.02     | 2.28        | 91     | 1     |
| 2:A:176:RCY:C1C  | 2:A:176:RCY:O1H  | 1.02     | 2.08        | 93     | 3     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:N1R  | 1.02     | 1.61        | 38     | 2     |
| 2:A:150:RCY:C1P  | 2:A:187:RCY:C1V  | 1.02     | 2.37        | 18     | 2     |
| 2:A:176:RCY:H1U  | 2:A:187:RCY:C1M  | 1.02     | 1.84        | 26     | 2     |
| 2:A:138:RCY:H1YB | 2:A:187:RCY:C1Y  | 1.02     | 1.84        | 86     | 3     |
| 2:A:150:RCY:C1Y  | 2:A:176:RCY:H1Y  | 1.02     | 1.82        | 37     | 1     |
| 1:A:70:TRP:HD1   | 2:A:173:RCY:C1C  | 1.02     | 1.57        | 38     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:71:GLU:CB    | 2:A:176:RCY:C1V  | 1.02     | 2.37        | 49     | 1     |
| 2:A:138:RCY:H1VB | 2:A:187:RCY:C1Z  | 1.02     | 1.85        | 49     | 1     |
| 1:A:70:TRP:CB    | 2:A:173:RCY:O1J  | 1.02     | 2.07        | 64     | 1     |
| 1:A:69:PRO:HG2   | 2:A:176:RCY:C1Z  | 1.02     | 1.81        | 66     | 1     |
| 1:A:69:PRO:HB3   | 2:A:168:RCY:H1YA | 1.02     | 1.20        | 66     | 1     |
| 2:A:173:RCY:O1J  | 2:A:187:RCY:H1LA | 1.02     | 1.52        | 76     | 2     |
| 1:A:59:GLY:HA3   | 2:A:160:RCY:C1M  | 1.02     | 1.81        | 78     | 1     |
| 1:A:67:ILE:HD13  | 2:A:130:RCY:C1Y  | 1.02     | 1.85        | 78     | 1     |
| 1:A:76:CYS:SG    | 2:A:187:RCY:C1Z  | 1.02     | 2.47        | 80     | 1     |
| 1:A:70:TRP:HB2   | 2:A:173:RCY:H1YA | 1.02     | 1.25        | 84     | 1     |
| 1:A:71:GLU:HG3   | 2:A:168:RCY:C1U  | 1.02     | 1.83        | 93     | 1     |
| 2:A:168:RCY:H1YB | 2:A:187:RCY:H1L  | 1.02     | 1.17        | 100    | 1     |
| 2:A:138:RCY:H1VB | 2:A:150:RCY:H1YB | 1.01     | 1.21        | 1      | 1     |
| 2:A:160:RCY:O1H  | 2:A:160:RCY:C1C  | 1.01     | 2.08        | 7      | 3     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:C1L  | 1.01     | 1.80        | 73     | 2     |
| 1:A:74:ASN:N     | 2:A:176:RCY:H1C  | 1.01     | 1.68        | 20     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:187:RCY:H1YB | 1.01     | 1.85        | 27     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:H1S  | 1.01     | 1.70        | 29     | 2     |
| 2:A:160:RCY:H1V  | 2:A:168:RCY:H1YA | 1.01     | 1.24        | 32     | 1     |
| 2:A:168:RCY:H1S  | 2:A:173:RCY:H1ZB | 1.01     | 1.29        | 39     | 1     |
| 1:A:66:VAL:O     | 2:A:168:RCY:H1CA | 1.01     | 1.55        | 58     | 1     |
| 1:A:69:PRO:HG2   | 2:A:168:RCY:H1M  | 1.01     | 1.07        | 66     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:168:RCY:O1G  | 1.01     | 2.07        | 72     | 1     |
| 1:A:63:ASP:HB2   | 2:A:130:RCY:H1Y  | 1.01     | 1.26        | 73     | 1     |
| 1:A:67:ILE:HG12  | 2:A:160:RCY:H1C  | 1.01     | 1.28        | 86     | 1     |
| 2:A:150:RCY:H1ZB | 2:A:187:RCY:C1Z  | 1.01     | 1.83        | 88     | 1     |
| 1:A:72:ALA:CA    | 2:A:168:RCY:O1G  | 1.01     | 2.03        | 91     | 1     |
| 2:A:138:RCY:O1G  | 2:A:150:RCY:H1C  | 1.01     | 1.53        | 94     | 1     |
| 1:A:63:ASP:CB    | 2:A:168:RCY:C1V  | 1.01     | 2.35        | 5      | 1     |
| 1:A:64:ILE:HD11  | 2:A:168:RCY:C1Z  | 1.01     | 1.86        | 6      | 1     |
| 1:A:69:PRO:N     | 2:A:173:RCY:O1G  | 1.01     | 1.85        | 10     | 1     |
| 1:A:69:PRO:HA    | 2:A:173:RCY:C1P  | 1.01     | 1.83        | 10     | 1     |
| 2:A:173:RCY:N1R  | 2:A:176:RCY:H1VB | 1.01     | 1.70        | 19     | 2     |
| 1:A:75:HIS:HA    | 2:A:173:RCY:H1VA | 1.01     | 1.19        | 22     | 1     |
| 1:A:73:CYS:CA    | 2:A:173:RCY:H1L  | 1.01     | 1.80        | 23     | 2     |
| 2:A:168:RCY:C1V  | 2:A:187:RCY:C1Z  | 1.01     | 2.37        | 85     | 2     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:C1C  | 1.01     | 1.83        | 38     | 1     |
| 1:A:76:CYS:HA    | 2:A:176:RCY:H1LA | 1.01     | 1.24        | 68     | 5     |
| 1:A:63:ASP:O     | 2:A:168:RCY:C1L  | 1.01     | 2.07        | 59     | 1     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:C1C  | 1.01     | 1.85        | 67     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:176:RCY:N1V  | 1.01     | 1.64        | 71     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:71:GLU:OE2   | 2:A:168:RCY:H1VB | 1.01     | 0.80        | 93     | 2     |
| 1:A:67:ILE:CG2   | 2:A:173:RCY:C1W  | 1.01     | 2.37        | 80     | 1     |
| 1:A:73:CYS:SG    | 2:A:121:RCY:O1J  | 1.01     | 2.17        | 91     | 1     |
| 1:A:74:ASN:N     | 2:A:168:RCY:H1Y  | 1.01     | 1.71        | 91     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:176:RCY:H1VB | 1.01     | 1.71        | 94     | 1     |
| 2:A:150:RCY:H1YA | 2:A:173:RCY:C1C  | 1.01     | 1.83        | 3      | 1     |
| 2:A:168:RCY:H1Y  | 2:A:187:RCY:C1L  | 1.01     | 1.85        | 3      | 1     |
| 1:A:64:ILE:HG12  | 2:A:168:RCY:H1MA | 1.01     | 1.21        | 6      | 1     |
| 2:A:138:RCY:C1C  | 2:A:187:RCY:H1YA | 1.01     | 1.84        | 21     | 2     |
| 2:A:173:RCY:H1YA | 2:A:187:RCY:H1Y  | 1.01     | 1.27        | 31     | 1     |
| 2:A:176:RCY:H1VA | 2:A:187:RCY:H1YA | 1.01     | 1.07        | 54     | 1     |
| 1:A:62:THR:HG21  | 2:A:160:RCY:H1V  | 1.01     | 1.28        | 55     | 1     |
| 1:A:76:CYS:SG    | 2:A:160:RCY:C1Y  | 1.01     | 2.47        | 73     | 1     |
| 1:A:70:TRP:CH2   | 2:A:176:RCY:H1ZA | 1.01     | 1.90        | 85     | 1     |
| 2:A:150:RCY:H1U  | 2:A:187:RCY:C1V  | 1.01     | 1.85        | 89     | 1     |
| 2:A:176:RCY:H1VA | 2:A:187:RCY:H1Z  | 1.01     | 1.31        | 91     | 1     |
| 1:A:59:GLY:CA    | 2:A:160:RCY:H1V  | 1.01     | 1.85        | 2      | 1     |
| 2:A:176:RCY:H1Y  | 2:A:187:RCY:H1VB | 1.01     | 1.12        | 2      | 1     |
| 1:A:64:ILE:HD12  | 2:A:168:RCY:H1CA | 1.01     | 1.24        | 4      | 1     |
| 1:A:69:PRO:C     | 2:A:187:RCY:C1C  | 1.01     | 2.28        | 7      | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:C1P  | 1.01     | 2.39        | 17     | 2     |
| 1:A:68:CYS:HB3   | 2:A:160:RCY:C1Y  | 1.01     | 1.71        | 19     | 2     |
| 2:A:168:RCY:H1U  | 2:A:173:RCY:H1CA | 1.01     | 1.30        | 20     | 1     |
| 2:A:138:RCY:H1Y  | 2:A:150:RCY:H1YB | 1.01     | 1.25        | 26     | 2     |
| 1:A:60:CYS:N     | 2:A:160:RCY:C1S  | 1.01     | 2.23        | 28     | 2     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:H1MA | 1.01     | 1.90        | 44     | 3     |
| 2:A:138:RCY:H1YA | 2:A:150:RCY:O1G  | 1.01     | 1.55        | 37     | 1     |
| 1:A:75:HIS:NE2   | 2:A:173:RCY:H1ZA | 1.01     | 1.40        | 42     | 1     |
| 1:A:73:CYS:CB    | 2:A:168:RCY:C1V  | 1.01     | 2.38        | 57     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:O1H  | 1.01     | 1.87        | 59     | 2     |
| 2:A:130:RCY:H1C  | 2:A:160:RCY:C1P  | 1.01     | 1.86        | 66     | 1     |
| 2:A:168:RCY:C1C  | 2:A:187:RCY:H1MA | 1.01     | 1.64        | 88     | 2     |
| 1:A:72:ALA:HB1   | 2:A:173:RCY:C1S  | 1.01     | 1.80        | 78     | 1     |
| 2:A:168:RCY:H1LA | 2:A:173:RCY:H1VB | 1.01     | 1.10        | 80     | 1     |
| 2:A:168:RCY:H1U  | 2:A:187:RCY:C1Y  | 1.01     | 1.85        | 87     | 1     |
| 2:A:168:RCY:H1YA | 2:A:187:RCY:C1U  | 1.01     | 1.84        | 90     | 1     |
| 1:A:60:CYS:CA    | 2:A:168:RCY:O1G  | 1.01     | 2.07        | 95     | 1     |
| 1:A:71:GLU:CD    | 2:A:176:RCY:H1C  | 1.01     | 1.74        | 97     | 1     |
| 1:A:70:TRP:N     | 2:A:173:RCY:O1G  | 1.01     | 1.92        | 6      | 1     |
| 1:A:75:HIS:C     | 2:A:176:RCY:H1L  | 1.01     | 1.76        | 13     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:H1VB | 1.01     | 1.85        | 19     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:176:RCY:H1U  | 2:A:187:RCY:H1M  | 1.01     | 1.11        | 26     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:150:RCY:H1ZA | 1.01     | 1.86        | 30     | 1     |
| 2:A:138:RCY:N1R  | 2:A:150:RCY:C1P  | 1.01     | 2.18        | 41     | 1     |
| 2:A:150:RCY:C1V  | 2:A:160:RCY:C1W  | 1.01     | 2.38        | 42     | 1     |
| 2:A:138:RCY:H1VA | 2:A:150:RCY:H1CA | 1.01     | 1.23        | 70     | 1     |
| 2:A:110:RCY:C1Y  | 2:A:121:RCY:C1X  | 1.01     | 2.38        | 81     | 1     |
| 1:A:70:TRP:HH2   | 2:A:130:RCY:H1YB | 1.01     | 1.09        | 88     | 1     |
| 2:A:160:RCY:C1W  | 2:A:168:RCY:H1C  | 1.01     | 1.70        | 89     | 1     |
| 2:A:173:RCY:H1M  | 2:A:176:RCY:C1Y  | 1.00     | 1.85        | 2      | 1     |
| 1:A:63:ASP:C     | 2:A:160:RCY:H1VB | 1.00     | 1.77        | 3      | 1     |
| 2:A:110:RCY:O1J  | 2:A:121:RCY:C1Y  | 1.00     | 2.09        | 5      | 1     |
| 2:A:138:RCY:C1U  | 2:A:150:RCY:C1V  | 1.00     | 2.38        | 19     | 1     |
| 2:A:168:RCY:H1U  | 2:A:173:RCY:H1M  | 1.00     | 1.33        | 27     | 1     |
| 2:A:138:RCY:H1C  | 2:A:150:RCY:H1Z  | 1.00     | 1.22        | 29     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:O1J  | 1.00     | 2.09        | 55     | 2     |
| 2:A:173:RCY:H1YA | 2:A:187:RCY:H1Z  | 1.00     | 1.04        | 42     | 2     |
| 2:A:160:RCY:H1YA | 2:A:168:RCY:C1U  | 1.00     | 1.60        | 44     | 1     |
| 1:A:67:ILE:HG22  | 2:A:173:RCY:C1W  | 1.00     | 1.85        | 80     | 1     |
| 2:A:150:RCY:C1C  | 2:A:176:RCY:O1G  | 1.00     | 2.09        | 82     | 1     |
| 1:A:68:CYS:N     | 2:A:168:RCY:O1H  | 1.00     | 1.93        | 86     | 1     |
| 2:A:176:RCY:H1CB | 2:A:187:RCY:H1V  | 1.00     | 1.30        | 93     | 1     |
| 2:A:168:RCY:C1L  | 2:A:173:RCY:C1Z  | 1.00     | 2.39        | 10     | 4     |
| 2:A:168:RCY:H1MA | 2:A:187:RCY:H1YB | 1.00     | 1.25        | 7      | 1     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:O1J  | 1.00     | 2.10        | 9      | 1     |
| 2:A:168:RCY:H1YA | 2:A:187:RCY:C1Z  | 1.00     | 1.77        | 21     | 2     |
| 1:A:64:ILE:HG13  | 2:A:168:RCY:H1S  | 1.00     | 1.02        | 26     | 1     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:H1MA | 1.00     | 1.26        | 26     | 1     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:C1V  | 1.00     | 2.34        | 27     | 1     |
| 1:A:64:ILE:HG22  | 2:A:168:RCY:O1J  | 1.00     | 1.26        | 30     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:H1ZA | 1.00     | 1.85        | 31     | 1     |
| 1:A:70:TRP:O     | 2:A:173:RCY:C1C  | 1.00     | 2.07        | 38     | 1     |
| 1:A:62:THR:CB    | 2:A:160:RCY:N1V  | 1.00     | 2.20        | 46     | 1     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:H1YA | 1.00     | 1.27        | 51     | 1     |
| 2:A:138:RCY:H1CA | 2:A:150:RCY:C1W  | 1.00     | 1.86        | 59     | 1     |
| 2:A:150:RCY:H1VA | 2:A:187:RCY:H1Y  | 1.00     | 1.30        | 66     | 1     |
| 1:A:70:TRP:H     | 2:A:176:RCY:C1Y  | 1.00     | 1.70        | 80     | 1     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:H1C  | 1.00     | 1.85        | 4      | 1     |
| 1:A:70:TRP:CD1   | 2:A:176:RCY:C1M  | 1.00     | 2.45        | 4      | 1     |
| 2:A:138:RCY:H1U  | 2:A:187:RCY:H1CA | 1.00     | 1.08        | 5      | 2     |
| 2:A:168:RCY:C1C  | 2:A:173:RCY:H1Y  | 1.00     | 1.87        | 39     | 2     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:O1J  | 1.00     | 1.54        | 11     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:H1M  | 2:A:173:RCY:C1Y  | 1.00     | 1.85        | 31     | 3     |
| 2:A:160:RCY:C1P  | 2:A:168:RCY:H1M  | 1.00     | 1.87        | 52     | 2     |
| 2:A:138:RCY:H1C  | 2:A:187:RCY:H1YB | 1.00     | 1.32        | 99     | 2     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:O1J  | 1.00     | 2.10        | 55     | 2     |
| 2:A:168:RCY:O1J  | 2:A:173:RCY:C1P  | 1.00     | 1.99        | 37     | 1     |
| 2:A:173:RCY:H1VA | 2:A:187:RCY:H1C  | 1.00     | 1.23        | 55     | 1     |
| 2:A:138:RCY:H1ZA | 2:A:187:RCY:H1C  | 1.00     | 1.26        | 74     | 1     |
| 1:A:63:ASP:O     | 2:A:168:RCY:H1ZB | 1.00     | 1.52        | 78     | 1     |
| 1:A:69:PRO:HG2   | 2:A:150:RCY:H1Y  | 1.00     | 1.27        | 85     | 1     |
| 1:A:71:GLU:CD    | 2:A:173:RCY:O1H  | 1.00     | 1.98        | 89     | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:H1CA | 1.00     | 1.57        | 89     | 1     |
| 1:A:60:CYS:CB    | 2:A:168:RCY:C1C  | 1.00     | 2.39        | 95     | 1     |
| 2:A:138:RCY:H1V  | 2:A:187:RCY:O1J  | 1.00     | 1.52        | 96     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:187:RCY:H1L  | 1.00     | 1.32        | 100    | 1     |
| 2:A:168:RCY:C1U  | 2:A:173:RCY:H1CA | 1.00     | 1.86        | 20     | 1     |
| 1:A:62:THR:CA    | 2:A:160:RCY:H1CA | 1.00     | 1.87        | 46     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:C1Z  | 1.00     | 1.94        | 87     | 1     |
| 1:A:69:PRO:CD    | 2:A:168:RCY:C1L  | 1.00     | 2.37        | 31     | 5     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:H1C  | 1.00     | 1.35        | 89     | 2     |
| 1:A:69:PRO:CG    | 2:A:150:RCY:C1Z  | 1.00     | 2.38        | 92     | 1     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:C1P  | 1.00     | 1.85        | 34     | 3     |
| 1:A:61:GLY:CA    | 2:A:160:RCY:N1R  | 1.00     | 2.13        | 2      | 1     |
| 2:A:176:RCY:C1U  | 2:A:187:RCY:H1V  | 1.00     | 1.85        | 4      | 1     |
| 2:A:130:RCY:H1MA | 2:A:160:RCY:H1YA | 1.00     | 1.25        | 7      | 1     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:C1Z  | 1.00     | 2.40        | 9      | 3     |
| 1:A:71:GLU:HB2   | 2:A:168:RCY:H1LA | 1.00     | 1.09        | 32     | 2     |
| 2:A:168:RCY:C1P  | 2:A:173:RCY:H1M  | 1.00     | 1.85        | 49     | 1     |
| 2:A:138:RCY:O1J  | 2:A:176:RCY:H1CB | 1.00     | 1.57        | 51     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:187:RCY:C1C  | 1.00     | 1.86        | 81     | 2     |
| 1:A:69:PRO:CG    | 2:A:176:RCY:C1Y  | 1.00     | 2.39        | 72     | 1     |
| 1:A:63:ASP:HB2   | 2:A:130:RCY:C1Y  | 1.00     | 1.83        | 73     | 1     |
| 1:A:76:CYS:SG    | 2:A:176:RCY:H1SA | 1.00     | 1.93        | 79     | 1     |
| 1:A:71:GLU:CA    | 2:A:173:RCY:C1L  | 1.00     | 2.33        | 17     | 1     |
| 1:A:70:TRP:HB3   | 2:A:121:RCY:H1LA | 1.00     | 1.27        | 30     | 1     |
| 2:A:168:RCY:C1P  | 2:A:176:RCY:H1M  | 1.00     | 1.87        | 71     | 1     |
| 2:A:173:RCY:H1M  | 2:A:176:RCY:H1M  | 1.00     | 1.11        | 89     | 1     |
| 2:A:173:RCY:O1J  | 2:A:187:RCY:C1M  | 1.00     | 2.10        | 93     | 1     |
| 1:A:64:ILE:HG21  | 2:A:160:RCY:C1M  | 0.99     | 1.86        | 47     | 2     |
| 1:A:70:TRP:NE1   | 2:A:121:RCY:C1Y  | 0.99     | 0.85        | 49     | 1     |
| 2:A:138:RCY:H1CA | 2:A:160:RCY:H1C  | 0.99     | 1.31        | 49     | 1     |
| 1:A:64:ILE:HD13  | 2:A:160:RCY:H1M  | 0.99     | 1.04        | 1      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:H1V  | 2:A:176:RCY:O1G  | 0.99     | 1.57        | 20     | 1     |
| 1:A:67:ILE:HG21  | 2:A:130:RCY:H1MA | 0.99     | 1.01        | 30     | 1     |
| 2:A:173:RCY:H1CB | 2:A:176:RCY:N1R  | 0.99     | 1.72        | 34     | 1     |
| 2:A:160:RCY:N1V  | 2:A:168:RCY:C1C  | 0.99     | 2.23        | 89     | 1     |
| 2:A:160:RCY:C1W  | 2:A:168:RCY:H1Z  | 0.99     | 1.88        | 9      | 1     |
| 1:A:64:ILE:HG13  | 2:A:168:RCY:O1G  | 0.99     | 1.52        | 18     | 1     |
| 1:A:70:TRP:HB3   | 2:A:168:RCY:C1C  | 0.99     | 1.87        | 20     | 1     |
| 2:A:121:RCY:H1YB | 2:A:176:RCY:H1LA | 0.99     | 1.33        | 35     | 1     |
| 2:A:173:RCY:C1V  | 2:A:187:RCY:C1Z  | 0.99     | 2.39        | 53     | 2     |
| 2:A:168:RCY:C1L  | 2:A:173:RCY:C1U  | 0.99     | 2.40        | 49     | 1     |
| 1:A:65:THR:CG2   | 2:A:160:RCY:C1Y  | 0.99     | 2.39        | 55     | 1     |
| 1:A:68:CYS:CB    | 2:A:176:RCY:C1Y  | 0.99     | 2.29        | 80     | 1     |
| 2:A:168:RCY:H1YB | 2:A:187:RCY:H1V  | 0.99     | 1.30        | 94     | 1     |
| 2:A:173:RCY:C1P  | 2:A:187:RCY:C1C  | 0.99     | 2.39        | 99     | 1     |
| 2:A:138:RCY:H1Y  | 2:A:150:RCY:H1Y  | 0.99     | 1.33        | 9      | 1     |
| 2:A:138:RCY:H1C  | 2:A:187:RCY:H1M  | 0.99     | 1.01        | 11     | 2     |
| 1:A:64:ILE:HG13  | 2:A:160:RCY:H1YB | 0.99     | 1.05        | 19     | 1     |
| 2:A:138:RCY:H1VA | 2:A:187:RCY:C1M  | 0.99     | 1.85        | 21     | 1     |
| 2:A:138:RCY:H1YA | 2:A:150:RCY:H1M  | 0.99     | 1.30        | 26     | 1     |
| 1:A:73:CYS:O     | 2:A:173:RCY:C1L  | 0.99     | 2.10        | 29     | 1     |
| 2:A:150:RCY:H1CA | 2:A:187:RCY:C1C  | 0.99     | 1.87        | 50     | 1     |
| 2:A:160:RCY:H1ZB | 2:A:168:RCY:H1C  | 0.99     | 1.32        | 69     | 1     |
| 1:A:64:ILE:HD13  | 2:A:150:RCY:H1LA | 0.99     | 1.06        | 75     | 1     |
| 1:A:64:ILE:CG2   | 2:A:168:RCY:C1M  | 0.99     | 2.40        | 95     | 1     |
| 2:A:160:RCY:H1M  | 2:A:168:RCY:C1W  | 0.99     | 1.87        | 9      | 1     |
| 1:A:67:ILE:HG21  | 2:A:173:RCY:H1C  | 0.99     | 1.06        | 31     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:H1LA | 0.99     | 1.87        | 45     | 1     |
| 2:A:121:RCY:H1ZB | 2:A:121:RCY:O1G  | 0.99     | 1.57        | 59     | 2     |
| 1:A:70:TRP:HB2   | 2:A:176:RCY:C1Y  | 0.99     | 1.86        | 64     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:187:RCY:H1ZA | 0.99     | 1.87        | 97     | 1     |
| 2:A:176:RCY:H1U  | 2:A:187:RCY:C1V  | 0.99     | 1.86        | 4      | 2     |
| 2:A:173:RCY:H1C  | 2:A:176:RCY:H1Z  | 0.99     | 1.27        | 27     | 1     |
| 2:A:160:RCY:O1G  | 2:A:168:RCY:C1C  | 0.99     | 2.10        | 89     | 1     |
| 2:A:187:RCY:C1Z  | 2:A:187:RCY:O1G  | 0.99     | 2.11        | 89     | 1     |
| 1:A:68:CYS:O     | 2:A:168:RCY:H1LA | 0.99     | 1.56        | 91     | 1     |
| 2:A:130:RCY:H1V  | 2:A:173:RCY:C1Y  | 0.99     | 1.85        | 94     | 1     |
| 2:A:138:RCY:N1R  | 2:A:150:RCY:H1V  | 0.99     | 1.72        | 19     | 1     |
| 2:A:176:RCY:H1YA | 2:A:187:RCY:H1VA | 0.99     | 1.08        | 27     | 2     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:H1YB | 0.99     | 1.88        | 41     | 1     |
| 2:A:160:RCY:C1U  | 2:A:168:RCY:C1V  | 0.99     | 2.41        | 48     | 1     |
| 1:A:59:GLY:HA2   | 2:A:160:RCY:H1ZA | 0.99     | 1.33        | 49     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:O1H  | 0.99     | 2.10        | 96     | 2     |
| 1:A:63:ASP:HB3   | 2:A:150:RCY:C1C  | 0.99     | 1.87        | 85     | 1     |
| 1:A:69:PRO:CG    | 2:A:187:RCY:H1YB | 0.99     | 1.87        | 87     | 1     |
| 2:A:168:RCY:C1U  | 2:A:176:RCY:H1Y  | 0.99     | 1.64        | 59     | 2     |
| 1:A:64:ILE:HB    | 2:A:168:RCY:H1ZB | 0.99     | 1.34        | 30     | 1     |
| 2:A:173:RCY:H1C  | 2:A:187:RCY:H1YA | 0.99     | 1.29        | 48     | 1     |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:C1Z  | 0.99     | 2.41        | 77     | 1     |
| 1:A:69:PRO:CB    | 2:A:150:RCY:H1Y  | 0.99     | 1.86        | 85     | 1     |
| 2:A:173:RCY:H1C  | 2:A:187:RCY:H1ZB | 0.99     | 1.07        | 93     | 1     |
| 2:A:168:RCY:H1ZB | 2:A:176:RCY:C1Z  | 0.99     | 1.86        | 6      | 1     |
| 2:A:168:RCY:H1M  | 2:A:187:RCY:H1Y  | 0.99     | 0.99        | 7      | 1     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:C1W  | 0.99     | 2.41        | 41     | 1     |
| 2:A:173:RCY:H1YB | 2:A:187:RCY:C1X  | 0.99     | 1.88        | 64     | 1     |
| 1:A:68:CYS:CB    | 2:A:173:RCY:C1M  | 0.99     | 2.40        | 73     | 1     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:H1YA | 0.99     | 1.88        | 2      | 2     |
| 1:A:60:CYS:O     | 2:A:138:RCY:O1G  | 0.99     | 1.81        | 7      | 1     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:H1L  | 0.99     | 1.86        | 88     | 2     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:H1LA | 0.99     | 1.88        | 15     | 1     |
| 1:A:62:THR:HG21  | 2:A:130:RCY:C1C  | 0.99     | 1.85        | 18     | 1     |
| 1:A:70:TRP:CG    | 2:A:168:RCY:H1S  | 0.99     | 1.76        | 20     | 1     |
| 1:A:64:ILE:CG1   | 2:A:168:RCY:H1S  | 0.99     | 1.86        | 26     | 1     |
| 2:A:176:RCY:H1YA | 2:A:187:RCY:C1X  | 0.99     | 1.87        | 27     | 1     |
| 1:A:62:THR:HG21  | 2:A:160:RCY:H1VB | 0.99     | 1.00        | 55     | 1     |
| 2:A:173:RCY:C1S  | 2:A:176:RCY:O1G  | 0.99     | 2.09        | 71     | 2     |
| 1:A:64:ILE:HB    | 2:A:168:RCY:O1G  | 0.99     | 1.25        | 69     | 1     |
| 1:A:63:ASP:CB    | 2:A:130:RCY:H1Y  | 0.99     | 1.86        | 73     | 1     |
| 2:A:138:RCY:H1YA | 2:A:187:RCY:H1M  | 0.99     | 1.34        | 82     | 1     |
| 1:A:70:TRP:CH2   | 2:A:176:RCY:H1MA | 0.99     | 1.92        | 85     | 1     |
| 1:A:71:GLU:OE1   | 2:A:130:RCY:H1ZA | 0.99     | 1.56        | 94     | 1     |
| 1:A:69:PRO:HD2   | 2:A:168:RCY:H1L  | 0.98     | 1.05        | 15     | 4     |
| 2:A:138:RCY:C1C  | 2:A:160:RCY:H1VA | 0.98     | 1.84        | 27     | 1     |
| 1:A:74:ASN:CG    | 2:A:168:RCY:H1YB | 0.98     | 1.79        | 91     | 1     |
| 2:A:138:RCY:H1ZB | 2:A:173:RCY:C1C  | 0.98     | 1.88        | 92     | 1     |
| 1:A:71:GLU:HG2   | 2:A:130:RCY:C1M  | 0.98     | 1.87        | 94     | 1     |
| 2:A:168:RCY:H1M  | 2:A:187:RCY:C1W  | 0.98     | 1.73        | 7      | 2     |
| 2:A:160:RCY:C1C  | 2:A:168:RCY:C1V  | 0.98     | 2.18        | 44     | 1     |
| 1:A:70:TRP:CG    | 2:A:176:RCY:H1MA | 0.98     | 1.90        | 4      | 1     |
| 2:A:150:RCY:H1Y  | 2:A:173:RCY:O1J  | 0.98     | 1.56        | 85     | 2     |
| 2:A:150:RCY:O1J  | 2:A:187:RCY:O1H  | 0.98     | 1.80        | 14     | 1     |
| 1:A:65:THR:OG1   | 2:A:168:RCY:H1C  | 0.98     | 1.58        | 24     | 1     |
| 1:A:64:ILE:CG1   | 2:A:160:RCY:C1V  | 0.98     | 2.41        | 54     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:O1G  | 2:A:187:RCY:C1Y  | 0.98     | 2.11        | 64     | 1     |
| 2:A:160:RCY:H1M  | 2:A:176:RCY:H1Y  | 0.98     | 1.32        | 71     | 1     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:H1C  | 0.98     | 1.78        | 10     | 1     |
| 1:A:70:TRP:O     | 2:A:187:RCY:C1V  | 0.98     | 2.11        | 16     | 1     |
| 1:A:66:VAL:O     | 2:A:168:RCY:H1VB | 0.98     | 1.56        | 27     | 1     |
| 1:A:65:THR:OG1   | 2:A:168:RCY:O1H  | 0.98     | 1.81        | 31     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:160:RCY:C1U  | 0.98     | 2.47        | 34     | 1     |
| 1:A:70:TRP:CH2   | 2:A:150:RCY:O1J  | 0.98     | 2.16        | 93     | 1     |
| 2:A:173:RCY:O1J  | 2:A:176:RCY:H1LA | 0.98     | 1.57        | 93     | 2     |
| 1:A:63:ASP:HB3   | 2:A:168:RCY:H1VA | 0.98     | 0.99        | 5      | 1     |
| 2:A:168:RCY:H1LA | 2:A:173:RCY:H1M  | 0.98     | 1.29        | 14     | 2     |
| 1:A:60:CYS:CA    | 2:A:160:RCY:O1H  | 0.98     | 2.12        | 29     | 4     |
| 1:A:68:CYS:SG    | 2:A:160:RCY:H1MA | 0.98     | 1.99        | 58     | 1     |
| 1:A:70:TRP:HA    | 2:A:173:RCY:C1P  | 0.98     | 1.88        | 6      | 1     |
| 1:A:70:TRP:CD1   | 2:A:150:RCY:C1L  | 0.98     | 1.90        | 34     | 1     |
| 1:A:59:GLY:N     | 2:A:160:RCY:O1G  | 0.98     | 1.95        | 78     | 2     |
| 2:A:173:RCY:H1MA | 2:A:176:RCY:C1W  | 0.98     | 1.55        | 77     | 1     |
| 2:A:176:RCY:H1ZA | 2:A:187:RCY:C1C  | 0.98     | 1.89        | 91     | 1     |
| 1:A:63:ASP:CA    | 2:A:168:RCY:C1V  | 0.98     | 2.41        | 5      | 1     |
| 1:A:64:ILE:CG1   | 2:A:160:RCY:H1YB | 0.98     | 1.85        | 19     | 2     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:H1V  | 0.98     | 1.87        | 29     | 3     |
| 1:A:72:ALA:HB1   | 2:A:173:RCY:C1L  | 0.98     | 1.86        | 30     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:173:RCY:H1VA | 0.98     | 1.01        | 37     | 1     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:C1Y  | 0.98     | 2.40        | 41     | 1     |
| 1:A:62:THR:HG23  | 2:A:160:RCY:H1ZB | 0.98     | 1.33        | 46     | 1     |
| 1:A:62:THR:OG1   | 2:A:168:RCY:O1G  | 0.98     | 1.80        | 72     | 2     |
| 1:A:70:TRP:O     | 2:A:173:RCY:H1U  | 0.98     | 1.54        | 11     | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:H1YA | 0.98     | 1.53        | 78     | 2     |
| 2:A:138:RCY:C1P  | 2:A:150:RCY:H1YA | 0.98     | 1.87        | 23     | 1     |
| 2:A:150:RCY:H1VB | 2:A:160:RCY:H1V  | 0.98     | 1.35        | 42     | 1     |
| 1:A:78:LEU:CD1   | 2:A:176:RCY:H1U  | 0.98     | 1.88        | 56     | 1     |
| 2:A:168:RCY:H1MA | 2:A:176:RCY:H1ZA | 0.98     | 1.01        | 64     | 1     |
| 1:A:68:CYS:C     | 2:A:173:RCY:C1M  | 0.98     | 2.21        | 73     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:176:RCY:C1Z  | 0.98     | 2.47        | 85     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:173:RCY:C1C  | 0.98     | 2.10        | 92     | 1     |
| 2:A:110:RCY:O1H  | 2:A:110:RCY:C1Z  | 0.98     | 2.11        | 37     | 2     |
| 2:A:150:RCY:O1H  | 2:A:150:RCY:C1Z  | 0.98     | 2.10        | 43     | 8     |
| 1:A:61:GLY:O     | 2:A:150:RCY:C1M  | 0.98     | 2.11        | 11     | 1     |
| 2:A:138:RCY:H1C  | 2:A:187:RCY:H1MA | 0.98     | 1.03        | 11     | 1     |
| 2:A:138:RCY:O1G  | 2:A:138:RCY:C1C  | 0.98     | 2.12        | 57     | 6     |
| 2:A:138:RCY:H1YA | 2:A:150:RCY:C1U  | 0.98     | 1.88        | 60     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:187:RCY:O1G  | 2:A:187:RCY:C1V  | 0.98     | 2.12        | 85     | 8     |
| 1:A:66:VAL:HA    | 2:A:160:RCY:O1J  | 0.98     | 1.56        | 68     | 1     |
| 2:A:168:RCY:C1S  | 2:A:176:RCY:H1ZA | 0.98     | 1.86        | 77     | 1     |
| 2:A:138:RCY:H1VA | 2:A:168:RCY:C1C  | 0.98     | 1.88        | 19     | 1     |
| 1:A:68:CYS:H     | 2:A:168:RCY:H1LA | 0.98     | 1.19        | 93     | 2     |
| 1:A:71:GLU:CA    | 2:A:168:RCY:H1CA | 0.98     | 1.87        | 29     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:121:RCY:H1ZA | 0.98     | 1.93        | 41     | 1     |
| 2:A:176:RCY:C1X  | 2:A:187:RCY:C1M  | 0.97     | 2.42        | 4      | 1     |
| 1:A:67:ILE:HG23  | 2:A:173:RCY:C1P  | 0.97     | 1.87        | 21     | 1     |
| 2:A:160:RCY:C1U  | 2:A:168:RCY:H1CB | 0.97     | 1.71        | 49     | 1     |
| 1:A:64:ILE:O     | 2:A:168:RCY:O1H  | 0.97     | 1.81        | 54     | 1     |
| 1:A:68:CYS:SG    | 2:A:150:RCY:H1M  | 0.97     | 1.99        | 85     | 1     |
| 1:A:70:TRP:CE2   | 2:A:173:RCY:O1G  | 0.97     | 2.16        | 93     | 1     |
| 1:A:70:TRP:HB2   | 2:A:173:RCY:H1M  | 0.97     | 1.36        | 6      | 1     |
| 2:A:168:RCY:O1J  | 2:A:176:RCY:H1U  | 0.97     | 1.59        | 16     | 1     |
| 2:A:160:RCY:C1L  | 2:A:168:RCY:O1G  | 0.97     | 2.12        | 26     | 1     |
| 1:A:70:TRP:HB2   | 2:A:168:RCY:H1M  | 0.97     | 1.35        | 28     | 1     |
| 1:A:64:ILE:HB    | 2:A:168:RCY:H1Z  | 0.97     | 1.00        | 30     | 2     |
| 2:A:173:RCY:O1H  | 2:A:176:RCY:H1VB | 0.97     | 1.59        | 70     | 2     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:C1W  | 0.97     | 2.21        | 77     | 1     |
| 2:A:150:RCY:H1CB | 2:A:176:RCY:O1G  | 0.97     | 1.60        | 82     | 1     |
| 1:A:71:GLU:CG    | 2:A:168:RCY:N1R  | 0.97     | 2.26        | 93     | 1     |
| 2:A:121:RCY:C1Z  | 2:A:168:RCY:H1L  | 0.97     | 1.89        | 94     | 1     |
| 2:A:160:RCY:H1U  | 2:A:168:RCY:H1M  | 0.97     | 1.00        | 96     | 1     |
| 2:A:173:RCY:H1Z  | 2:A:187:RCY:C1L  | 0.97     | 1.88        | 96     | 1     |
| 2:A:168:RCY:O1J  | 2:A:187:RCY:H1CB | 0.97     | 1.56        | 99     | 1     |
| 1:A:70:TRP:CG    | 2:A:176:RCY:C1M  | 0.97     | 2.35        | 4      | 1     |
| 1:A:71:GLU:O     | 2:A:173:RCY:H1S  | 0.97     | 1.57        | 68     | 3     |
| 1:A:70:TRP:H     | 2:A:176:RCY:C1C  | 0.97     | 1.61        | 13     | 1     |
| 1:A:77:GLU:HG2   | 2:A:176:RCY:C1U  | 0.97     | 1.84        | 39     | 1     |
| 2:A:150:RCY:C1C  | 2:A:187:RCY:H1Y  | 0.97     | 1.88        | 57     | 2     |
| 2:A:173:RCY:C1V  | 2:A:187:RCY:O1J  | 0.97     | 2.11        | 67     | 1     |
| 1:A:67:ILE:CG2   | 2:A:173:RCY:C1Y  | 0.97     | 2.41        | 80     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:O1H  | 0.97     | 2.12        | 92     | 2     |
| 1:A:68:CYS:C     | 2:A:173:RCY:C1Z  | 0.97     | 2.30        | 16     | 1     |
| 2:A:160:RCY:H1M  | 2:A:168:RCY:H1VA | 0.97     | 1.31        | 48     | 1     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:O1G  | 0.97     | 2.11        | 53     | 1     |
| 1:A:78:LEU:CD1   | 2:A:176:RCY:C1U  | 0.97     | 2.42        | 56     | 1     |
| 2:A:138:RCY:H1CB | 2:A:173:RCY:H1ZA | 0.97     | 1.35        | 66     | 1     |
| 1:A:66:VAL:CA    | 2:A:160:RCY:O1J  | 0.97     | 2.12        | 68     | 1     |
| 2:A:130:RCY:O1G  | 2:A:130:RCY:C1V  | 0.97     | 2.12        | 71     | 5     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:O1G  | 2:A:168:RCY:C1V  | 0.97     | 2.12        | 18     | 10    |
| 2:A:168:RCY:O1H  | 2:A:173:RCY:C1Z  | 0.97     | 2.12        | 17     | 2     |
| 1:A:77:GLU:H     | 2:A:176:RCY:C1P  | 0.97     | 1.71        | 31     | 1     |
| 2:A:150:RCY:H1C  | 2:A:187:RCY:H1YA | 0.97     | 1.35        | 53     | 1     |
| 2:A:138:RCY:C1C  | 2:A:160:RCY:C1L  | 0.97     | 2.39        | 73     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:187:RCY:H1CA | 0.97     | 1.72        | 74     | 1     |
| 2:A:168:RCY:H1VB | 2:A:187:RCY:C1Z  | 0.97     | 1.88        | 85     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:173:RCY:O1J  | 0.97     | 2.13        | 3      | 1     |
| 1:A:62:THR:HG22  | 2:A:130:RCY:C1U  | 0.97     | 1.88        | 9      | 1     |
| 1:A:60:CYS:O     | 2:A:168:RCY:H1YB | 0.97     | 1.59        | 30     | 1     |
| 1:A:69:PRO:HD3   | 2:A:173:RCY:H1VB | 0.97     | 1.33        | 30     | 1     |
| 2:A:160:RCY:H1M  | 2:A:168:RCY:H1LA | 0.97     | 0.98        | 58     | 1     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:H1Y  | 0.97     | 1.88        | 59     | 1     |
| 1:A:67:ILE:O     | 2:A:173:RCY:H1YB | 0.97     | 1.58        | 63     | 1     |
| 1:A:74:ASN:HA    | 2:A:176:RCY:H1U  | 0.97     | 1.34        | 67     | 1     |
| 2:A:168:RCY:H1CA | 2:A:187:RCY:C1M  | 0.97     | 1.89        | 70     | 1     |
| 2:A:160:RCY:O1H  | 2:A:173:RCY:H1YB | 0.97     | 1.57        | 71     | 1     |
| 1:A:71:GLU:OE1   | 2:A:176:RCY:C1V  | 0.97     | 2.11        | 92     | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:C1V  | 0.97     | 2.13        | 70     | 3     |
| 2:A:168:RCY:C1W  | 2:A:173:RCY:O1J  | 0.97     | 1.88        | 20     | 1     |
| 1:A:68:CYS:N     | 2:A:168:RCY:H1L  | 0.97     | 1.74        | 21     | 3     |
| 2:A:160:RCY:C1Z  | 2:A:187:RCY:H1Z  | 0.97     | 1.88        | 31     | 2     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:O1G  | 0.97     | 1.81        | 48     | 4     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:C1Z  | 0.97     | 2.42        | 31     | 1     |
| 2:A:150:RCY:H1M  | 2:A:160:RCY:H1VA | 0.97     | 0.98        | 42     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:173:RCY:O1H  | 0.97     | 2.12        | 70     | 3     |
| 1:A:63:ASP:C     | 2:A:168:RCY:C1L  | 0.97     | 2.32        | 59     | 1     |
| 1:A:63:ASP:OD1   | 2:A:160:RCY:H1ZA | 0.97     | 1.59        | 73     | 1     |
| 2:A:160:RCY:C1V  | 2:A:160:RCY:O1G  | 0.97     | 2.13        | 3      | 5     |
| 2:A:121:RCY:O1G  | 2:A:121:RCY:C1V  | 0.97     | 2.13        | 95     | 5     |
| 2:A:138:RCY:H1CB | 2:A:150:RCY:H1VA | 0.97     | 0.98        | 10     | 2     |
| 1:A:70:TRP:CZ2   | 2:A:160:RCY:H1U  | 0.97     | 1.95        | 34     | 1     |
| 1:A:72:ALA:H     | 2:A:173:RCY:C1Z  | 0.97     | 1.72        | 50     | 1     |
| 2:A:168:RCY:H1L  | 2:A:173:RCY:H1Y  | 0.97     | 1.29        | 62     | 1     |
| 2:A:168:RCY:H1V  | 2:A:176:RCY:H1M  | 0.97     | 0.97        | 76     | 1     |
| 1:A:70:TRP:O     | 2:A:173:RCY:N1R  | 0.97     | 1.97        | 82     | 2     |
| 1:A:76:CYS:H     | 2:A:176:RCY:H1S  | 0.97     | 1.17        | 24     | 2     |
| 1:A:60:CYS:CA    | 2:A:160:RCY:C1Q  | 0.97     | 2.43        | 83     | 2     |
| 2:A:138:RCY:H1ZB | 2:A:187:RCY:H1Z  | 0.97     | 0.99        | 77     | 2     |
| 2:A:130:RCY:C1Y  | 2:A:160:RCY:H1VA | 0.97     | 1.89        | 81     | 1     |
| 1:A:71:GLU:OE2   | 2:A:130:RCY:C1Z  | 0.97     | 2.13        | 94     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:77:GLU:OE2   | 2:A:176:RCY:C1V  | 0.97     | 2.11        | 7      | 1     |
| 2:A:168:RCY:C1V  | 2:A:173:RCY:C1Z  | 0.97     | 2.43        | 29     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:C1M  | 0.97     | 2.34        | 34     | 2     |
| 2:A:173:RCY:H1YA | 2:A:176:RCY:H1YB | 0.97     | 1.33        | 59     | 1     |
| 1:A:70:TRP:CE2   | 2:A:176:RCY:H1VA | 0.97     | 1.94        | 82     | 1     |
| 1:A:64:ILE:HD11  | 2:A:168:RCY:H1L  | 0.97     | 1.36        | 88     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:187:RCY:H1L  | 0.96     | 1.89        | 100    | 2     |
| 2:A:150:RCY:H1Z  | 2:A:187:RCY:C1Y  | 0.96     | 1.84        | 9      | 1     |
| 2:A:160:RCY:H1CB | 2:A:160:RCY:O1H  | 0.96     | 1.56        | 74     | 5     |
| 1:A:68:CYS:HA    | 2:A:160:RCY:H1VA | 0.96     | 1.31        | 15     | 1     |
| 2:A:130:RCY:H1YA | 2:A:173:RCY:H1S  | 0.96     | 1.36        | 15     | 1     |
| 1:A:64:ILE:CB    | 2:A:168:RCY:H1Z  | 0.96     | 1.89        | 30     | 1     |
| 2:A:187:RCY:H1CA | 2:A:187:RCY:O1H  | 0.96     | 1.58        | 70     | 2     |
| 1:A:74:ASN:OD1   | 2:A:176:RCY:C1V  | 0.96     | 2.12        | 44     | 1     |
| 1:A:67:ILE:O     | 2:A:173:RCY:C1Y  | 0.96     | 2.12        | 63     | 1     |
| 1:A:69:PRO:HG2   | 2:A:168:RCY:C1M  | 0.96     | 1.86        | 66     | 1     |
| 2:A:168:RCY:H1CA | 2:A:187:RCY:H1YA | 0.96     | 1.37        | 87     | 1     |
| 2:A:110:RCY:O1H  | 2:A:110:RCY:H1ZB | 0.96     | 1.59        | 6      | 2     |
| 2:A:160:RCY:H1CB | 2:A:173:RCY:C1Z  | 0.96     | 1.60        | 11     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:176:RCY:N1V  | 0.96     | 2.17        | 11     | 1     |
| 2:A:138:RCY:H1VA | 2:A:187:RCY:H1M  | 0.96     | 1.36        | 21     | 1     |
| 2:A:176:RCY:N1R  | 2:A:176:RCY:H1U  | 0.96     | 1.72        | 79     | 2     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:H1CB | 0.96     | 1.90        | 67     | 1     |
| 2:A:173:RCY:H1Y  | 2:A:187:RCY:C1Q  | 0.96     | 1.90        | 81     | 1     |
| 1:A:67:ILE:CG2   | 2:A:173:RCY:O1G  | 0.96     | 2.13        | 21     | 1     |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:H1S  | 0.96     | 1.33        | 26     | 1     |
| 2:A:150:RCY:H1Z  | 2:A:187:RCY:H1VA | 0.96     | 1.32        | 26     | 1     |
| 2:A:168:RCY:H1V  | 2:A:187:RCY:H1YA | 0.96     | 1.37        | 40     | 1     |
| 2:A:138:RCY:C1Q  | 2:A:150:RCY:O1G  | 0.96     | 2.12        | 41     | 1     |
| 2:A:150:RCY:H1YA | 2:A:187:RCY:H1ZA | 0.96     | 1.02        | 41     | 1     |
| 2:A:160:RCY:H1VB | 2:A:168:RCY:H1VB | 0.96     | 1.34        | 48     | 1     |
| 1:A:72:ALA:CB    | 2:A:173:RCY:H1MA | 0.96     | 1.90        | 80     | 1     |
| 1:A:78:LEU:HG    | 2:A:176:RCY:H1MA | 0.96     | 0.97        | 91     | 1     |
| 2:A:176:RCY:H1CB | 2:A:187:RCY:C1V  | 0.96     | 1.89        | 93     | 1     |
| 2:A:176:RCY:C1Z  | 2:A:187:RCY:C1V  | 0.96     | 2.32        | 10     | 1     |
| 2:A:160:RCY:H1ZB | 2:A:168:RCY:H1YB | 0.96     | 1.36        | 43     | 2     |
| 1:A:64:ILE:HG12  | 2:A:160:RCY:C1V  | 0.96     | 1.90        | 54     | 1     |
| 2:A:160:RCY:H1ZB | 2:A:168:RCY:C1V  | 0.96     | 1.72        | 55     | 1     |
| 1:A:61:GLY:N     | 2:A:138:RCY:H1VA | 0.96     | 1.70        | 7      | 1     |
| 2:A:173:RCY:O1G  | 2:A:173:RCY:C1V  | 0.96     | 2.14        | 60     | 5     |
| 2:A:138:RCY:H1YA | 2:A:150:RCY:H1U  | 0.96     | 1.36        | 60     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:138:RCY:C1V  | 2:A:168:RCY:H1CA | 0.96     | 1.88        | 19     | 1     |
| 1:A:68:CYS:H     | 2:A:168:RCY:H1L  | 0.96     | 1.15        | 21     | 1     |
| 2:A:173:RCY:H1C  | 2:A:187:RCY:H1Y  | 0.96     | 1.25        | 48     | 1     |
| 2:A:138:RCY:H1VB | 2:A:187:RCY:C1W  | 0.96     | 1.89        | 49     | 1     |
| 1:A:64:ILE:CG1   | 2:A:168:RCY:O1H  | 0.96     | 2.13        | 58     | 2     |
| 2:A:138:RCY:H1ZA | 2:A:150:RCY:C1Q  | 0.96     | 1.90        | 60     | 1     |
| 1:A:68:CYS:SG    | 2:A:176:RCY:C1W  | 0.96     | 2.53        | 77     | 1     |
| 2:A:130:RCY:N1V  | 2:A:130:RCY:C1V  | 0.96     | 2.27        | 79     | 1     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:H1Z  | 0.96     | 1.90        | 69     | 2     |
| 1:A:76:CYS:N     | 2:A:176:RCY:H1S  | 0.96     | 1.74        | 13     | 4     |
| 1:A:70:TRP:HE1   | 2:A:168:RCY:C1Y  | 0.96     | 1.63        | 37     | 1     |
| 2:A:176:RCY:H1YB | 2:A:187:RCY:C1V  | 0.96     | 1.65        | 38     | 2     |
| 2:A:138:RCY:C1X  | 2:A:150:RCY:O1H  | 0.96     | 2.12        | 62     | 1     |
| 1:A:69:PRO:HA    | 2:A:176:RCY:H1VA | 0.96     | 1.35        | 72     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:138:RCY:H1Z  | 0.96     | 1.91        | 73     | 1     |
| 1:A:67:ILE:HG22  | 2:A:173:RCY:H1MA | 0.96     | 0.98        | 80     | 1     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:H1Y  | 0.96     | 0.97        | 2      | 1     |
| 2:A:121:RCY:C1V  | 2:A:121:RCY:O1G  | 0.96     | 2.12        | 12     | 2     |
| 1:A:59:GLY:HA3   | 2:A:160:RCY:H1M  | 0.96     | 0.98        | 78     | 1     |
| 1:A:71:GLU:CD    | 2:A:130:RCY:C1M  | 0.96     | 2.32        | 94     | 1     |
| 2:A:110:RCY:O1G  | 2:A:110:RCY:C1V  | 0.96     | 2.13        | 3      | 6     |
| 2:A:160:RCY:C1Z  | 2:A:173:RCY:C1Z  | 0.96     | 2.44        | 99     | 2     |
| 2:A:168:RCY:C1V  | 2:A:168:RCY:O1G  | 0.96     | 2.12        | 55     | 4     |
| 1:A:72:ALA:CB    | 2:A:173:RCY:C1U  | 0.96     | 2.43        | 80     | 2     |
| 2:A:121:RCY:C1Y  | 2:A:176:RCY:C1L  | 0.96     | 2.40        | 35     | 1     |
| 2:A:176:RCY:O1H  | 2:A:176:RCY:H1ZB | 0.96     | 1.59        | 84     | 2     |
| 1:A:64:ILE:HD11  | 2:A:168:RCY:O1H  | 0.96     | 1.60        | 58     | 1     |
| 1:A:78:LEU:CD1   | 2:A:176:RCY:C1Z  | 0.96     | 2.44        | 91     | 1     |
| 2:A:138:RCY:C1W  | 2:A:173:RCY:C1V  | 0.96     | 2.18        | 92     | 1     |
| 2:A:138:RCY:C1W  | 2:A:150:RCY:H1C  | 0.96     | 1.91        | 97     | 1     |
| 2:A:168:RCY:C1V  | 2:A:176:RCY:O1G  | 0.96     | 2.14        | 20     | 1     |
| 1:A:66:VAL:C     | 2:A:176:RCY:C1Y  | 0.96     | 2.33        | 22     | 1     |
| 2:A:138:RCY:H1VB | 2:A:187:RCY:H1ZA | 0.96     | 1.36        | 49     | 1     |
| 2:A:160:RCY:H1Y  | 2:A:168:RCY:H1M  | 0.96     | 1.38        | 58     | 1     |
| 2:A:168:RCY:O1J  | 2:A:176:RCY:H1V  | 0.96     | 1.57        | 84     | 1     |
| 2:A:138:RCY:H1M  | 2:A:173:RCY:C1V  | 0.96     | 1.87        | 92     | 1     |
| 2:A:176:RCY:C1V  | 2:A:176:RCY:O1G  | 0.96     | 2.13        | 4      | 3     |
| 2:A:160:RCY:H1MA | 2:A:168:RCY:O1J  | 0.96     | 1.60        | 9      | 1     |
| 2:A:168:RCY:C1W  | 2:A:176:RCY:O1J  | 0.96     | 2.14        | 11     | 1     |
| 1:A:73:CYS:H     | 2:A:173:RCY:C1Q  | 0.96     | 1.73        | 16     | 2     |
| 2:A:160:RCY:H1C  | 2:A:168:RCY:O1G  | 0.96     | 1.60        | 19     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:H1ZA | 0.96     | 0.98        | 35     | 1     |
| 1:A:69:PRO:CG    | 2:A:168:RCY:C1Y  | 0.96     | 2.43        | 66     | 1     |
| 1:A:69:PRO:CG    | 2:A:176:RCY:H1Z  | 0.96     | 1.84        | 66     | 1     |
| 1:A:69:PRO:CG    | 2:A:176:RCY:H1YA | 0.96     | 1.90        | 72     | 1     |
| 2:A:110:RCY:H1VA | 2:A:121:RCY:H1MA | 0.95     | 1.33        | 5      | 1     |
| 2:A:150:RCY:C1C  | 2:A:168:RCY:O1J  | 0.95     | 2.14        | 19     | 1     |
| 2:A:150:RCY:H1VA | 2:A:173:RCY:H1YA | 0.95     | 1.35        | 39     | 1     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:H1L  | 0.95     | 1.96        | 48     | 1     |
| 1:A:71:GLU:CA    | 2:A:173:RCY:C1Q  | 0.95     | 2.44        | 49     | 2     |
| 2:A:173:RCY:H1VA | 2:A:187:RCY:C1Y  | 0.95     | 1.89        | 54     | 1     |
| 1:A:65:THR:HG21  | 2:A:160:RCY:H1YA | 0.95     | 1.36        | 55     | 1     |
| 1:A:70:TRP:NE1   | 2:A:176:RCY:H1CA | 0.95     | 1.74        | 62     | 1     |
| 2:A:138:RCY:H1MA | 2:A:187:RCY:H1YA | 0.95     | 1.36        | 68     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:187:RCY:H1VB | 0.95     | 1.57        | 85     | 1     |
| 2:A:150:RCY:H1Z  | 2:A:176:RCY:C1P  | 0.95     | 1.89        | 3      | 1     |
| 2:A:176:RCY:H1ZA | 2:A:187:RCY:O1J  | 0.95     | 1.60        | 17     | 1     |
| 2:A:150:RCY:H1Y  | 2:A:187:RCY:H1YA | 0.95     | 0.99        | 18     | 1     |
| 2:A:130:RCY:C1W  | 2:A:160:RCY:O1G  | 0.95     | 1.85        | 22     | 3     |
| 1:A:70:TRP:HB2   | 2:A:173:RCY:H1V  | 0.95     | 1.34        | 26     | 1     |
| 2:A:110:RCY:C1C  | 2:A:110:RCY:O1H  | 0.95     | 2.12        | 50     | 3     |
| 1:A:71:GLU:OE2   | 2:A:176:RCY:H1LA | 0.95     | 1.61        | 40     | 1     |
| 2:A:168:RCY:C1C  | 2:A:176:RCY:C1W  | 0.95     | 2.41        | 59     | 1     |
| 1:A:63:ASP:HB2   | 2:A:150:RCY:C1C  | 0.95     | 1.88        | 85     | 1     |
| 1:A:65:THR:HG21  | 2:A:160:RCY:H1CA | 0.95     | 1.30        | 31     | 1     |
| 2:A:168:RCY:O1J  | 2:A:173:RCY:O1G  | 0.95     | 1.82        | 37     | 1     |
| 2:A:160:RCY:H1Y  | 2:A:168:RCY:C1Z  | 0.95     | 1.92        | 53     | 2     |
| 2:A:168:RCY:O1G  | 2:A:168:RCY:H1CA | 0.95     | 1.59        | 53     | 3     |
| 1:A:62:THR:OG1   | 2:A:150:RCY:C1C  | 0.95     | 2.08        | 11     | 1     |
| 1:A:67:ILE:HG21  | 2:A:173:RCY:C1C  | 0.95     | 1.77        | 31     | 1     |
| 2:A:168:RCY:C1Q  | 2:A:173:RCY:H1Z  | 0.95     | 1.89        | 39     | 1     |
| 2:A:168:RCY:H1Z  | 2:A:173:RCY:H1VB | 0.95     | 0.96        | 58     | 1     |
| 1:A:71:GLU:CD    | 2:A:187:RCY:O1H  | 0.95     | 2.05        | 88     | 1     |
| 2:A:138:RCY:H1YA | 2:A:187:RCY:C1Z  | 0.95     | 1.91        | 3      | 1     |
| 1:A:60:CYS:O     | 2:A:130:RCY:N1R  | 0.95     | 1.99        | 18     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:C1Y  | 0.95     | 2.45        | 37     | 7     |
| 2:A:173:RCY:C1V  | 2:A:173:RCY:O1G  | 0.95     | 2.14        | 100    | 4     |
| 2:A:150:RCY:H1VB | 2:A:160:RCY:H1M  | 0.95     | 0.95        | 42     | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:N1R  | 0.95     | 1.99        | 47     | 1     |
| 2:A:160:RCY:H1Y  | 2:A:168:RCY:H1ZA | 0.95     | 0.98        | 53     | 2     |
| 2:A:138:RCY:C1W  | 2:A:187:RCY:H1YB | 0.95     | 1.90        | 68     | 1     |
| 1:A:60:CYS:HA    | 2:A:160:RCY:H1L  | 0.95     | 1.32        | 89     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:78:LEU:HD11  | 2:A:176:RCY:C1Q  | 0.95     | 1.90        | 91     | 1     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:C1M  | 0.95     | 2.41        | 96     | 1     |
| 1:A:59:GLY:CA    | 2:A:160:RCY:C1V  | 0.95     | 2.44        | 83     | 2     |
| 2:A:121:RCY:H1CA | 2:A:121:RCY:C1Q  | 0.95     | 1.90        | 69     | 10    |
| 1:A:70:TRP:CB    | 2:A:173:RCY:C1V  | 0.95     | 2.19        | 4      | 2     |
| 2:A:130:RCY:H1MA | 2:A:160:RCY:C1Y  | 0.95     | 1.90        | 7      | 1     |
| 2:A:176:RCY:H1CA | 2:A:176:RCY:C1Q  | 0.95     | 1.91        | 93     | 6     |
| 2:A:138:RCY:H1CA | 2:A:187:RCY:O1G  | 0.95     | 1.61        | 11     | 1     |
| 1:A:75:HIS:C     | 2:A:176:RCY:C1S  | 0.95     | 2.35        | 13     | 1     |
| 2:A:150:RCY:O1G  | 2:A:150:RCY:C1V  | 0.95     | 2.13        | 68     | 8     |
| 1:A:62:THR:HG1   | 2:A:168:RCY:H1L  | 0.95     | 1.13        | 23     | 1     |
| 2:A:130:RCY:O1H  | 2:A:130:RCY:C1C  | 0.95     | 2.14        | 85     | 5     |
| 2:A:138:RCY:O1J  | 2:A:187:RCY:H1M  | 0.95     | 1.61        | 52     | 1     |
| 1:A:73:CYS:CA    | 2:A:173:RCY:O1H  | 0.95     | 2.13        | 56     | 2     |
| 2:A:173:RCY:O1G  | 2:A:173:RCY:C1C  | 0.95     | 2.14        | 69     | 3     |
| 1:A:59:GLY:HA2   | 2:A:160:RCY:N1R  | 0.95     | 1.75        | 70     | 1     |
| 2:A:173:RCY:N1V  | 2:A:176:RCY:H1VA | 0.95     | 1.77        | 71     | 1     |
| 2:A:130:RCY:H1M  | 2:A:173:RCY:H1YA | 0.95     | 1.38        | 94     | 1     |
| 2:A:173:RCY:H1S  | 2:A:176:RCY:C1L  | 0.95     | 1.83        | 28     | 3     |
| 1:A:72:ALA:HB3   | 2:A:173:RCY:C1P  | 0.95     | 1.91        | 10     | 1     |
| 1:A:59:GLY:CA    | 2:A:160:RCY:O1G  | 0.95     | 1.95        | 70     | 2     |
| 1:A:62:THR:HG23  | 2:A:130:RCY:H1U  | 0.95     | 1.35        | 18     | 1     |
| 2:A:160:RCY:C1U  | 2:A:168:RCY:H1M  | 0.95     | 1.71        | 96     | 2     |
| 1:A:68:CYS:HB3   | 2:A:173:RCY:C1M  | 0.95     | 1.90        | 73     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:C1Z  | 0.95     | 1.81        | 78     | 1     |
| 2:A:150:RCY:H1YB | 2:A:187:RCY:H1YB | 0.95     | 0.95        | 41     | 2     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:H1VB | 0.95     | 1.89        | 38     | 1     |
| 1:A:66:VAL:CB    | 2:A:160:RCY:O1J  | 0.95     | 2.14        | 68     | 1     |
| 2:A:130:RCY:H1Y  | 2:A:138:RCY:H1Z  | 0.95     | 0.98        | 73     | 1     |
| 2:A:168:RCY:C1M  | 2:A:187:RCY:C1V  | 0.95     | 2.45        | 90     | 1     |
| 2:A:110:RCY:N1V  | 2:A:121:RCY:H1YA | 0.95     | 1.77        | 5      | 1     |
| 2:A:176:RCY:C1X  | 2:A:187:RCY:H1Z  | 0.95     | 1.85        | 5      | 1     |
| 1:A:69:PRO:CB    | 2:A:187:RCY:C1C  | 0.95     | 2.35        | 7      | 1     |
| 2:A:176:RCY:O1G  | 2:A:176:RCY:C1V  | 0.95     | 2.14        | 9      | 4     |
| 1:A:62:THR:OG1   | 2:A:150:RCY:H1CB | 0.95     | 1.62        | 11     | 1     |
| 1:A:70:TRP:HB2   | 2:A:168:RCY:H1S  | 0.95     | 1.37        | 19     | 2     |
| 2:A:150:RCY:H1ZB | 2:A:160:RCY:C1Q  | 0.95     | 1.91        | 16     | 1     |
| 2:A:176:RCY:H1ZB | 2:A:187:RCY:N1V  | 0.95     | 1.74        | 17     | 1     |
| 2:A:176:RCY:C1Z  | 2:A:187:RCY:N1V  | 0.95     | 2.29        | 17     | 1     |
| 2:A:138:RCY:H1VA | 2:A:187:RCY:N1R  | 0.95     | 1.74        | 21     | 1     |
| 1:A:68:CYS:HA    | 2:A:168:RCY:H1LA | 0.95     | 1.02        | 30     | 3     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:O1G  | 0.95     | 1.59        | 36     | 1     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:O1H  | 0.95     | 2.00        | 52     | 2     |
| 1:A:63:ASP:HB3   | 2:A:160:RCY:H1CB | 0.95     | 1.39        | 54     | 2     |
| 1:A:69:PRO:O     | 2:A:173:RCY:H1ZA | 0.95     | 1.61        | 69     | 1     |
| 2:A:138:RCY:H1U  | 2:A:187:RCY:H1C  | 0.95     | 0.95        | 5      | 1     |
| 2:A:150:RCY:H1CA | 2:A:150:RCY:C1Q  | 0.95     | 1.91        | 81     | 7     |
| 1:A:76:CYS:CB    | 2:A:173:RCY:O1G  | 0.95     | 2.14        | 38     | 2     |
| 1:A:74:ASN:HA    | 2:A:173:RCY:H1CB | 0.95     | 1.34        | 35     | 1     |
| 2:A:160:RCY:C1P  | 2:A:168:RCY:H1VA | 0.95     | 1.92        | 60     | 1     |
| 1:A:69:PRO:HA    | 2:A:173:RCY:H1CB | 0.95     | 1.34        | 66     | 1     |
| 2:A:173:RCY:H1Z  | 2:A:187:RCY:H1ZB | 0.95     | 1.35        | 84     | 1     |
| 1:A:71:GLU:CG    | 2:A:130:RCY:C1M  | 0.95     | 2.42        | 94     | 1     |
| 2:A:176:RCY:C1M  | 2:A:187:RCY:H1Z  | 0.94     | 1.89        | 5      | 1     |
| 1:A:71:GLU:HA    | 2:A:173:RCY:O1H  | 0.94     | 1.49        | 67     | 3     |
| 2:A:138:RCY:H1VA | 2:A:150:RCY:H1Y  | 0.94     | 1.37        | 36     | 1     |
| 2:A:173:RCY:H1M  | 2:A:176:RCY:O1J  | 0.94     | 1.58        | 55     | 1     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:H1M  | 0.94     | 1.91        | 70     | 1     |
| 2:A:150:RCY:H1YA | 2:A:187:RCY:C1C  | 0.94     | 1.91        | 78     | 1     |
| 2:A:150:RCY:H1CB | 2:A:176:RCY:H1U  | 0.94     | 1.39        | 82     | 1     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:C1P  | 0.94     | 2.43        | 92     | 3     |
| 1:A:73:CYS:CB    | 2:A:173:RCY:O1H  | 0.94     | 2.15        | 59     | 23    |
| 2:A:173:RCY:H1CA | 2:A:173:RCY:C1Q  | 0.94     | 1.91        | 9      | 9     |
| 1:A:68:CYS:HB3   | 2:A:160:RCY:C1W  | 0.94     | 1.92        | 19     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:H1L  | 0.94     | 1.92        | 20     | 1     |
| 2:A:176:RCY:O1H  | 2:A:187:RCY:C1V  | 0.94     | 2.09        | 42     | 2     |
| 2:A:160:RCY:H1Y  | 2:A:168:RCY:H1V  | 0.94     | 1.37        | 70     | 1     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:H1Y  | 0.94     | 0.96        | 76     | 1     |
| 2:A:150:RCY:H1VB | 2:A:187:RCY:H1L  | 0.94     | 1.38        | 87     | 1     |
| 1:A:70:TRP:CH2   | 2:A:130:RCY:H1YB | 0.94     | 1.97        | 88     | 1     |
| 2:A:130:RCY:C1W  | 2:A:160:RCY:H1YA | 0.94     | 1.92        | 7      | 1     |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:O1J  | 0.94     | 1.52        | 9      | 2     |
| 1:A:74:ASN:O     | 2:A:173:RCY:O1J  | 0.94     | 1.77        | 22     | 1     |
| 1:A:66:VAL:O     | 2:A:168:RCY:N1R  | 0.94     | 1.99        | 51     | 1     |
| 1:A:71:GLU:OE2   | 2:A:150:RCY:C1U  | 0.94     | 2.14        | 58     | 1     |
| 2:A:173:RCY:O1G  | 2:A:187:RCY:O1J  | 0.94     | 1.84        | 89     | 1     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:H1YA | 0.94     | 1.91        | 51     | 3     |
| 1:A:70:TRP:H     | 2:A:168:RCY:H1L  | 0.94     | 0.78        | 28     | 2     |
| 2:A:168:RCY:C1Y  | 2:A:173:RCY:C1P  | 0.94     | 2.45        | 91     | 2     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:O1J  | 0.94     | 2.19        | 41     | 1     |
| 2:A:173:RCY:C1U  | 2:A:187:RCY:H1Y  | 0.94     | 1.89        | 70     | 1     |
| 1:A:64:ILE:HD11  | 2:A:160:RCY:H1YB | 0.94     | 1.39        | 74     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:110:RCY:H1YA | 2:A:121:RCY:C1C  | 0.94     | 1.78        | 81     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:H1M  | 0.94     | 1.92        | 82     | 1     |
| 2:A:138:RCY:N1V  | 2:A:150:RCY:O1J  | 0.94     | 2.00        | 97     | 1     |
| 2:A:138:RCY:H1M  | 2:A:150:RCY:C1M  | 0.94     | 1.92        | 1      | 1     |
| 1:A:73:CYS:HA    | 2:A:173:RCY:H1LA | 0.94     | 1.14        | 33     | 3     |
| 2:A:150:RCY:H1Z  | 2:A:187:RCY:H1VB | 0.94     | 1.35        | 26     | 1     |
| 2:A:176:RCY:C1Z  | 2:A:187:RCY:H1CA | 0.94     | 1.91        | 38     | 1     |
| 2:A:150:RCY:H1U  | 2:A:187:RCY:H1V  | 0.94     | 0.95        | 89     | 1     |
| 1:A:59:GLY:O     | 2:A:160:RCY:O1H  | 0.94     | 1.83        | 20     | 2     |
| 1:A:70:TRP:CD2   | 2:A:168:RCY:C1V  | 0.94     | 2.50        | 94     | 2     |
| 2:A:173:RCY:H1S  | 2:A:176:RCY:H1LA | 0.94     | 0.98        | 28     | 1     |
| 2:A:160:RCY:H1C  | 2:A:168:RCY:H1LA | 0.94     | 0.96        | 48     | 1     |
| 1:A:66:VAL:O     | 2:A:176:RCY:H1YB | 0.94     | 1.63        | 22     | 1     |
| 2:A:173:RCY:H1ZA | 2:A:187:RCY:H1LA | 0.94     | 0.99        | 45     | 2     |
| 1:A:59:GLY:CA    | 2:A:160:RCY:H1LA | 0.94     | 1.83        | 57     | 2     |
| 1:A:71:GLU:HA    | 2:A:168:RCY:H1CA | 0.94     | 0.97        | 29     | 1     |
| 2:A:173:RCY:H1ZA | 2:A:176:RCY:C1X  | 0.94     | 1.88        | 31     | 1     |
| 1:A:63:ASP:OD2   | 2:A:121:RCY:C1V  | 0.94     | 2.16        | 42     | 1     |
| 2:A:176:RCY:C1C  | 2:A:176:RCY:O1G  | 0.94     | 2.16        | 44     | 2     |
| 1:A:64:ILE:CG2   | 2:A:168:RCY:H1ZA | 0.94     | 1.71        | 83     | 1     |
| 1:A:60:CYS:O     | 2:A:168:RCY:H1U  | 0.94     | 1.62        | 95     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:C1L  | 0.94     | 2.17        | 100    | 2     |
| 2:A:138:RCY:N1R  | 2:A:187:RCY:H1CB | 0.94     | 1.78        | 5      | 1     |
| 1:A:70:TRP:HA    | 2:A:173:RCY:N1R  | 0.94     | 1.77        | 6      | 1     |
| 2:A:130:RCY:C1M  | 2:A:160:RCY:C1Y  | 0.94     | 2.45        | 7      | 1     |
| 2:A:138:RCY:C1C  | 2:A:138:RCY:O1G  | 0.94     | 2.15        | 10     | 3     |
| 1:A:70:TRP:O     | 2:A:173:RCY:O1G  | 0.94     | 1.84        | 16     | 3     |
| 2:A:138:RCY:C1P  | 2:A:160:RCY:C1U  | 0.94     | 2.21        | 18     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:168:RCY:C1Z  | 0.94     | 2.49        | 24     | 1     |
| 2:A:138:RCY:N1R  | 2:A:138:RCY:C1M  | 0.94     | 2.31        | 79     | 2     |
| 1:A:67:ILE:C     | 2:A:168:RCY:H1S  | 0.94     | 1.82        | 58     | 3     |
| 1:A:68:CYS:CA    | 2:A:168:RCY:C1L  | 0.94     | 2.25        | 75     | 4     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:C1M  | 0.94     | 2.50        | 49     | 3     |
| 1:A:75:HIS:HD2   | 2:A:173:RCY:H1Z  | 0.94     | 1.21        | 42     | 1     |
| 2:A:138:RCY:H1C  | 2:A:150:RCY:O1G  | 0.94     | 1.60        | 53     | 1     |
| 2:A:168:RCY:H1YA | 2:A:176:RCY:H1ZB | 0.94     | 1.38        | 66     | 1     |
| 2:A:130:RCY:H1Z  | 2:A:138:RCY:O1J  | 0.94     | 1.62        | 73     | 1     |
| 2:A:138:RCY:H1MA | 2:A:150:RCY:C1V  | 0.94     | 1.93        | 75     | 1     |
| 2:A:173:RCY:C1W  | 2:A:187:RCY:H1U  | 0.94     | 1.93        | 77     | 1     |
| 2:A:150:RCY:C1U  | 2:A:176:RCY:O1G  | 0.94     | 2.15        | 82     | 1     |
| 1:A:70:TRP:HH2   | 2:A:130:RCY:C1Y  | 0.94     | 1.75        | 88     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:H1YA | 2:A:173:RCY:C1C  | 0.94     | 1.91        | 91     | 1     |
| 1:A:71:GLU:HG2   | 2:A:176:RCY:H1YA | 0.94     | 0.96        | 92     | 1     |
| 2:A:160:RCY:C1U  | 2:A:168:RCY:O1J  | 0.94     | 2.16        | 9      | 1     |
| 2:A:138:RCY:O1G  | 2:A:138:RCY:C1Z  | 0.94     | 2.16        | 30     | 9     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:C1Q  | 0.94     | 2.40        | 100    | 3     |
| 1:A:68:CYS:H     | 2:A:176:RCY:C1Y  | 0.94     | 1.56        | 22     | 1     |
| 1:A:69:PRO:HD3   | 2:A:173:RCY:O1G  | 0.94     | 1.62        | 24     | 2     |
| 2:A:160:RCY:C1C  | 2:A:168:RCY:O1H  | 0.94     | 2.13        | 39     | 1     |
| 2:A:138:RCY:H1VB | 2:A:150:RCY:H1S  | 0.94     | 1.39        | 62     | 1     |
| 1:A:67:ILE:CG2   | 2:A:173:RCY:H1L  | 0.94     | 1.93        | 73     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:121:RCY:C1Q  | 0.94     | 2.42        | 78     | 1     |
| 2:A:138:RCY:O1G  | 2:A:150:RCY:C1Q  | 0.94     | 2.16        | 81     | 1     |
| 2:A:176:RCY:H1C  | 2:A:187:RCY:C1Y  | 0.94     | 1.92        | 26     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:176:RCY:C1X  | 0.94     | 1.90        | 31     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:176:RCY:H1Z  | 0.94     | 1.91        | 42     | 1     |
| 1:A:70:TRP:HH2   | 2:A:168:RCY:C1P  | 0.94     | 1.45        | 48     | 1     |
| 1:A:70:TRP:CD1   | 2:A:121:RCY:H1V  | 0.94     | 1.98        | 49     | 1     |
| 1:A:77:GLU:CB    | 2:A:173:RCY:H1CB | 0.94     | 1.93        | 51     | 1     |
| 2:A:168:RCY:C1Q  | 2:A:176:RCY:C1Y  | 0.94     | 2.43        | 59     | 1     |
| 2:A:176:RCY:C1Q  | 2:A:187:RCY:C1Z  | 0.94     | 2.42        | 60     | 1     |
| 2:A:130:RCY:H1LA | 2:A:160:RCY:C1P  | 0.94     | 1.90        | 62     | 1     |
| 1:A:60:CYS:CB    | 2:A:160:RCY:O1H  | 0.93     | 2.15        | 85     | 32    |
| 1:A:70:TRP:O     | 2:A:168:RCY:C1V  | 0.93     | 2.15        | 20     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:H1YB | 0.93     | 1.93        | 59     | 1     |
| 2:A:176:RCY:H1YB | 2:A:187:RCY:H1MA | 0.93     | 1.34        | 69     | 1     |
| 2:A:168:RCY:C1W  | 2:A:173:RCY:H1M  | 0.93     | 1.92        | 70     | 1     |
| 1:A:74:ASN:H     | 2:A:173:RCY:H1LA | 0.93     | 1.21        | 82     | 1     |
| 2:A:150:RCY:C1U  | 2:A:187:RCY:C1V  | 0.93     | 2.45        | 89     | 1     |
| 2:A:150:RCY:H1ZA | 2:A:173:RCY:O1J  | 0.93     | 1.60        | 3      | 1     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:C1V  | 0.93     | 1.92        | 18     | 2     |
| 2:A:173:RCY:O1H  | 2:A:176:RCY:C1L  | 0.93     | 2.14        | 23     | 1     |
| 1:A:67:ILE:HG21  | 2:A:130:RCY:H1M  | 0.93     | 1.38        | 30     | 1     |
| 2:A:138:RCY:H1V  | 2:A:187:RCY:H1ZA | 0.93     | 1.38        | 49     | 1     |
| 2:A:168:RCY:H1YA | 2:A:176:RCY:C1Z  | 0.93     | 1.92        | 66     | 1     |
| 1:A:78:LEU:CD1   | 2:A:176:RCY:H1ZA | 0.93     | 1.92        | 91     | 1     |
| 1:A:64:ILE:HG21  | 2:A:168:RCY:C1M  | 0.93     | 1.93        | 95     | 1     |
| 1:A:74:ASN:OD1   | 2:A:173:RCY:C1S  | 0.93     | 2.16        | 2      | 1     |
| 1:A:71:GLU:OE2   | 2:A:110:RCY:H1VB | 0.93     | 1.61        | 5      | 1     |
| 2:A:160:RCY:O1G  | 2:A:160:RCY:C1V  | 0.93     | 2.15        | 81     | 6     |
| 1:A:76:CYS:CB    | 2:A:176:RCY:O1H  | 0.93     | 2.17        | 80     | 20    |
| 1:A:62:THR:CG2   | 2:A:130:RCY:H1U  | 0.93     | 1.93        | 18     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:110:RCY:N1R  | 2:A:110:RCY:H1U  | 0.93     | 1.74        | 25     | 1     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:H1YB | 0.93     | 1.33        | 51     | 1     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:C1C  | 0.93     | 2.32        | 66     | 1     |
| 2:A:150:RCY:C1C  | 2:A:176:RCY:H1U  | 0.93     | 1.92        | 82     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:187:RCY:O1H  | 0.93     | 2.16        | 84     | 1     |
| 2:A:138:RCY:H1VB | 2:A:150:RCY:C1M  | 0.93     | 1.87        | 1      | 1     |
| 2:A:168:RCY:C1Q  | 2:A:173:RCY:H1ZB | 0.93     | 1.94        | 10     | 1     |
| 1:A:71:GLU:CG    | 2:A:168:RCY:C1Q  | 0.93     | 2.47        | 93     | 2     |
| 1:A:76:CYS:HB2   | 2:A:187:RCY:C1V  | 0.93     | 1.92        | 34     | 1     |
| 2:A:168:RCY:H1CA | 2:A:173:RCY:H1V  | 0.93     | 1.36        | 85     | 2     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:H1YB | 0.93     | 1.39        | 43     | 1     |
| 1:A:67:ILE:HG13  | 2:A:176:RCY:H1C  | 0.93     | 1.40        | 53     | 2     |
| 2:A:138:RCY:H1M  | 2:A:150:RCY:C1Y  | 0.93     | 1.93        | 89     | 1     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:H1M  | 0.93     | 1.88        | 96     | 1     |
| 2:A:168:RCY:C1M  | 2:A:187:RCY:C1P  | 0.93     | 2.44        | 100    | 1     |
| 2:A:138:RCY:H1C  | 2:A:187:RCY:O1J  | 0.93     | 1.63        | 3      | 1     |
| 2:A:173:RCY:H1U  | 2:A:176:RCY:H1VA | 0.93     | 1.34        | 19     | 1     |
| 2:A:168:RCY:H1Y  | 2:A:176:RCY:C1L  | 0.93     | 1.92        | 20     | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:C1M  | 0.93     | 2.16        | 21     | 2     |
| 2:A:176:RCY:N1V  | 2:A:187:RCY:C1U  | 0.93     | 2.31        | 29     | 2     |
| 1:A:70:TRP:CG    | 2:A:121:RCY:H1V  | 0.93     | 1.96        | 49     | 2     |
| 1:A:59:GLY:CA    | 2:A:160:RCY:C1Z  | 0.93     | 2.47        | 49     | 1     |
| 2:A:138:RCY:H1CA | 2:A:150:RCY:O1H  | 0.93     | 1.62        | 62     | 1     |
| 1:A:69:PRO:O     | 2:A:173:RCY:C1V  | 0.93     | 2.17        | 64     | 1     |
| 2:A:168:RCY:C1X  | 2:A:176:RCY:H1YB | 0.93     | 1.92        | 98     | 1     |
| 2:A:160:RCY:H1YB | 2:A:168:RCY:H1S  | 0.93     | 1.34        | 100    | 1     |
| 2:A:160:RCY:C1C  | 2:A:173:RCY:H1ZB | 0.93     | 1.90        | 11     | 1     |
| 1:A:71:GLU:HA    | 2:A:168:RCY:C1M  | 0.93     | 1.89        | 37     | 2     |
| 1:A:70:TRP:HE1   | 2:A:121:RCY:C1Y  | 0.93     | 0.52        | 49     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:C1X  | 0.93     | 2.45        | 69     | 1     |
| 1:A:68:CYS:CB    | 2:A:168:RCY:O1H  | 0.93     | 2.17        | 59     | 11    |
| 2:A:150:RCY:C1Y  | 2:A:160:RCY:H1VA | 0.93     | 1.92        | 42     | 1     |
| 2:A:173:RCY:H1YB | 2:A:187:RCY:C1L  | 0.93     | 1.92        | 45     | 1     |
| 2:A:160:RCY:O1G  | 2:A:168:RCY:O1J  | 0.93     | 1.85        | 64     | 1     |
| 1:A:75:HIS:CG    | 2:A:168:RCY:C1Z  | 0.93     | 2.51        | 73     | 1     |
| 1:A:69:PRO:N     | 2:A:173:RCY:C1V  | 0.93     | 2.31        | 100    | 1     |
| 2:A:150:RCY:H1VB | 2:A:150:RCY:O1G  | 0.93     | 1.63        | 30     | 3     |
| 2:A:110:RCY:H1CA | 2:A:110:RCY:C1Q  | 0.93     | 1.93        | 50     | 5     |
| 2:A:160:RCY:H1YB | 2:A:168:RCY:O1G  | 0.93     | 1.58        | 32     | 2     |
| 1:A:70:TRP:HZ2   | 2:A:121:RCY:C1Z  | 0.93     | 1.76        | 41     | 1     |
| 2:A:168:RCY:C1X  | 2:A:176:RCY:O1J  | 0.93     | 2.17        | 43     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:173:RCY:H1Y  | 2:A:187:RCY:C1S  | 0.93     | 1.93        | 81     | 1     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:C1Z  | 0.93     | 2.47        | 84     | 1     |
| 2:A:176:RCY:H1CA | 2:A:187:RCY:H1V  | 0.93     | 1.39        | 93     | 1     |
| 1:A:71:GLU:CB    | 2:A:173:RCY:H1V  | 0.93     | 1.92        | 50     | 1     |
| 2:A:138:RCY:H1YB | 2:A:150:RCY:C1P  | 0.93     | 1.94        | 60     | 1     |
| 1:A:61:GLY:HA2   | 2:A:160:RCY:N1R  | 0.93     | 1.71        | 2      | 1     |
| 2:A:110:RCY:H1Y  | 2:A:121:RCY:H1VB | 0.93     | 1.41        | 81     | 2     |
| 1:A:64:ILE:CG1   | 2:A:168:RCY:C1Z  | 0.93     | 2.46        | 78     | 2     |
| 2:A:138:RCY:H1Y  | 2:A:150:RCY:C1Y  | 0.93     | 1.94        | 26     | 1     |
| 1:A:68:CYS:N     | 2:A:168:RCY:H1LA | 0.93     | 1.79        | 91     | 3     |
| 1:A:67:ILE:HG22  | 2:A:173:RCY:H1C  | 0.93     | 0.93        | 31     | 1     |
| 2:A:130:RCY:H1ZB | 2:A:160:RCY:C1L  | 0.93     | 1.91        | 61     | 1     |
| 1:A:64:ILE:CD1   | 2:A:150:RCY:H1LA | 0.93     | 1.93        | 75     | 1     |
| 1:A:64:ILE:O     | 2:A:138:RCY:C1Y  | 0.93     | 2.17        | 85     | 1     |
| 2:A:138:RCY:H1Y  | 2:A:187:RCY:H1YA | 0.93     | 1.38        | 86     | 1     |
| 1:A:64:ILE:HG13  | 2:A:168:RCY:H1ZA | 0.92     | 1.38        | 78     | 2     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:H1M  | 0.92     | 0.96        | 17     | 3     |
| 2:A:173:RCY:C1Q  | 2:A:187:RCY:H1C  | 0.92     | 1.93        | 7      | 1     |
| 2:A:173:RCY:O1J  | 2:A:187:RCY:H1YA | 0.92     | 1.54        | 99     | 2     |
| 1:A:70:TRP:HB3   | 2:A:168:RCY:H1S  | 0.92     | 1.38        | 19     | 1     |
| 1:A:67:ILE:HG12  | 2:A:168:RCY:H1CB | 0.92     | 1.40        | 27     | 1     |
| 2:A:138:RCY:H1YB | 2:A:173:RCY:H1ZA | 0.92     | 1.40        | 32     | 1     |
| 2:A:160:RCY:H1M  | 2:A:168:RCY:C1L  | 0.92     | 1.93        | 58     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:H1VB | 0.92     | 1.93        | 58     | 1     |
| 2:A:168:RCY:C1S  | 2:A:173:RCY:C1U  | 0.92     | 2.28        | 71     | 1     |
| 2:A:150:RCY:H1MA | 2:A:168:RCY:H1YA | 0.92     | 0.95        | 74     | 1     |
| 2:A:176:RCY:H1U  | 2:A:187:RCY:H1MA | 0.92     | 1.38        | 96     | 1     |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:C1M  | 0.92     | 0.93        | 4      | 3     |
| 1:A:67:ILE:HG12  | 2:A:176:RCY:H1MA | 0.92     | 1.38        | 22     | 1     |
| 1:A:60:CYS:H     | 2:A:160:RCY:H1L  | 0.92     | 1.10        | 28     | 1     |
| 1:A:60:CYS:HB3   | 2:A:168:RCY:C1Z  | 0.92     | 1.93        | 52     | 1     |
| 2:A:160:RCY:N1R  | 2:A:168:RCY:C1M  | 0.92     | 2.33        | 52     | 2     |
| 2:A:173:RCY:C1Q  | 2:A:176:RCY:H1MA | 0.92     | 1.92        | 61     | 1     |
| 1:A:71:GLU:OE2   | 2:A:173:RCY:H1V  | 0.92     | 1.64        | 68     | 1     |
| 1:A:67:ILE:O     | 2:A:150:RCY:O1J  | 0.92     | 1.87        | 72     | 1     |
| 2:A:160:RCY:O1H  | 2:A:176:RCY:O1G  | 0.92     | 1.85        | 73     | 1     |
| 2:A:110:RCY:C1Z  | 2:A:121:RCY:H1VA | 0.92     | 1.95        | 81     | 1     |
| 2:A:138:RCY:H1L  | 2:A:150:RCY:H1VB | 0.92     | 1.39        | 98     | 1     |
| 2:A:160:RCY:H1YB | 2:A:168:RCY:C1L  | 0.92     | 1.95        | 58     | 3     |
| 1:A:63:ASP:O     | 2:A:160:RCY:H1VB | 0.92     | 1.55        | 3      | 1     |
| 2:A:173:RCY:C1C  | 2:A:173:RCY:O1H  | 0.92     | 2.17        | 7      | 6     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:C1V  | 2:A:173:RCY:H1ZA | 0.92     | 1.94        | 29     | 1     |
| 2:A:168:RCY:C1C  | 2:A:173:RCY:H1V  | 0.92     | 1.95        | 41     | 2     |
| 2:A:173:RCY:H1S  | 2:A:176:RCY:C1M  | 0.92     | 1.92        | 67     | 1     |
| 1:A:78:LEU:CD2   | 2:A:187:RCY:C1C  | 0.92     | 0.92        | 91     | 1     |
| 2:A:173:RCY:O1J  | 2:A:176:RCY:C1L  | 0.92     | 2.16        | 93     | 2     |
| 1:A:70:TRP:HZ3   | 2:A:168:RCY:H1C  | 0.92     | 1.16        | 95     | 2     |
| 1:A:73:CYS:SG    | 2:A:130:RCY:C1V  | 0.92     | 2.58        | 5      | 1     |
| 1:A:75:HIS:HA    | 2:A:176:RCY:C1P  | 0.92     | 1.94        | 13     | 1     |
| 1:A:75:HIS:C     | 2:A:176:RCY:C1L  | 0.92     | 2.36        | 13     | 1     |
| 2:A:160:RCY:N1R  | 2:A:160:RCY:H1U  | 0.92     | 1.77        | 25     | 2     |
| 2:A:130:RCY:H1CA | 2:A:130:RCY:C1Q  | 0.92     | 1.94        | 85     | 5     |
| 2:A:168:RCY:H1V  | 2:A:187:RCY:H1ZB | 0.92     | 1.38        | 31     | 2     |
| 1:A:62:THR:HA    | 2:A:138:RCY:H1ZA | 0.92     | 0.96        | 38     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:C1U  | 0.92     | 2.47        | 44     | 1     |
| 1:A:65:THR:HG22  | 2:A:168:RCY:H1L  | 0.92     | 1.39        | 55     | 1     |
| 1:A:63:ASP:OD1   | 2:A:150:RCY:H1Z  | 0.92     | 1.62        | 80     | 1     |
| 2:A:138:RCY:H1MA | 2:A:150:RCY:O1G  | 0.92     | 1.65        | 1      | 1     |
| 2:A:130:RCY:C1X  | 2:A:160:RCY:C1S  | 0.92     | 2.48        | 8      | 1     |
| 2:A:138:RCY:C1C  | 2:A:173:RCY:H1Z  | 0.92     | 1.94        | 15     | 2     |
| 2:A:160:RCY:C1W  | 2:A:168:RCY:C1V  | 0.92     | 2.46        | 55     | 1     |
| 1:A:71:GLU:OE1   | 2:A:176:RCY:C1Z  | 0.92     | 2.17        | 84     | 1     |
| 1:A:64:ILE:HG12  | 2:A:168:RCY:C1M  | 0.92     | 1.94        | 6      | 1     |
| 1:A:71:GLU:N     | 2:A:168:RCY:C1Q  | 0.92     | 2.13        | 22     | 1     |
| 2:A:110:RCY:H1Z  | 2:A:121:RCY:C1C  | 0.92     | 1.94        | 33     | 1     |
| 1:A:68:CYS:O     | 2:A:168:RCY:C1L  | 0.92     | 2.17        | 38     | 2     |
| 2:A:168:RCY:H1CB | 2:A:176:RCY:C1Z  | 0.92     | 1.93        | 59     | 1     |
| 1:A:67:ILE:HG21  | 2:A:138:RCY:C1Q  | 0.92     | 1.93        | 72     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:C1U  | 0.92     | 2.48        | 78     | 1     |
| 1:A:70:TRP:CD2   | 2:A:173:RCY:H1YB | 0.92     | 1.98        | 92     | 1     |
| 2:A:173:RCY:N1V  | 2:A:187:RCY:H1MA | 0.92     | 1.79        | 93     | 1     |
| 1:A:60:CYS:C     | 2:A:160:RCY:N1R  | 0.92     | 2.12        | 2      | 1     |
| 2:A:130:RCY:O1H  | 2:A:130:RCY:C1Z  | 0.92     | 2.17        | 66     | 3     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:C1Z  | 0.92     | 1.94        | 4      | 1     |
| 1:A:72:ALA:N     | 2:A:173:RCY:C1M  | 0.92     | 2.05        | 78     | 1     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:H1ZB | 0.92     | 1.94        | 93     | 1     |
| 2:A:150:RCY:H1CA | 2:A:150:RCY:C1P  | 0.92     | 1.95        | 61     | 6     |
| 2:A:187:RCY:O1H  | 2:A:187:RCY:C1V  | 0.92     | 2.18        | 72     | 7     |
| 2:A:160:RCY:N1V  | 2:A:173:RCY:C1C  | 0.92     | 2.24        | 11     | 1     |
| 2:A:130:RCY:H1Y  | 2:A:160:RCY:H1VB | 0.92     | 1.37        | 43     | 1     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:O1G  | 0.92     | 2.18        | 100    | 2     |
| 1:A:68:CYS:SG    | 2:A:160:RCY:H1C  | 0.92     | 2.05        | 3      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:187:RCY:O1H  | 2:A:187:RCY:C1C  | 0.92     | 2.18        | 18     | 4     |
| 1:A:62:THR:C     | 2:A:160:RCY:H1CA | 0.92     | 1.84        | 46     | 1     |
| 1:A:69:PRO:HG2   | 2:A:173:RCY:C1Z  | 0.92     | 1.92        | 57     | 1     |
| 1:A:67:ILE:HD11  | 2:A:160:RCY:H1VA | 0.92     | 1.41        | 86     | 1     |
| 1:A:60:CYS:O     | 2:A:160:RCY:C1L  | 0.92     | 2.16        | 30     | 2     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:O1G  | 0.92     | 2.13        | 10     | 2     |
| 2:A:168:RCY:H1MA | 2:A:173:RCY:H1MA | 0.92     | 1.40        | 70     | 1     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:O1G  | 0.92     | 2.17        | 75     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:H1ZB | 0.92     | 1.93        | 84     | 1     |
| 1:A:71:GLU:HG2   | 2:A:150:RCY:N1V  | 0.91     | 1.59        | 58     | 2     |
| 1:A:71:GLU:OE1   | 2:A:160:RCY:H1VB | 0.91     | 1.65        | 58     | 1     |
| 2:A:138:RCY:H1YA | 2:A:187:RCY:H1C  | 0.91     | 1.39        | 59     | 2     |
| 2:A:168:RCY:C1Q  | 2:A:176:RCY:H1ZA | 0.91     | 1.90        | 77     | 1     |
| 2:A:150:RCY:H1YB | 2:A:187:RCY:H1CB | 0.91     | 1.39        | 78     | 1     |
| 2:A:168:RCY:H1MA | 2:A:173:RCY:C1Z  | 0.91     | 1.93        | 84     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:187:RCY:H1ZA | 0.91     | 0.94        | 84     | 1     |
| 2:A:138:RCY:H1YB | 2:A:150:RCY:H1CA | 0.91     | 1.42        | 97     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:187:RCY:C1L  | 0.91     | 1.94        | 100    | 1     |
| 2:A:150:RCY:C1Y  | 2:A:173:RCY:N1R  | 0.91     | 2.32        | 3      | 1     |
| 1:A:77:GLU:CD    | 2:A:176:RCY:H1VB | 0.91     | 1.74        | 7      | 1     |
| 2:A:168:RCY:O1J  | 2:A:187:RCY:H1U  | 0.91     | 1.65        | 70     | 2     |
| 2:A:176:RCY:H1ZB | 2:A:187:RCY:C1U  | 0.91     | 1.95        | 17     | 1     |
| 2:A:138:RCY:H1L  | 2:A:160:RCY:H1ZB | 0.91     | 1.17        | 18     | 1     |
| 2:A:176:RCY:H1YA | 2:A:187:RCY:C1C  | 0.91     | 1.94        | 27     | 2     |
| 2:A:150:RCY:C1V  | 2:A:173:RCY:C1V  | 0.91     | 2.16        | 31     | 1     |
| 1:A:74:ASN:O     | 2:A:176:RCY:C1V  | 0.91     | 2.19        | 62     | 2     |
| 2:A:150:RCY:H1Y  | 2:A:187:RCY:C1U  | 0.91     | 1.94        | 78     | 1     |
| 1:A:69:PRO:HG2   | 2:A:150:RCY:C1Y  | 0.91     | 1.87        | 85     | 1     |
| 1:A:70:TRP:CA    | 2:A:173:RCY:C1Y  | 0.91     | 2.48        | 85     | 1     |
| 2:A:138:RCY:H1YA | 2:A:187:RCY:C1W  | 0.91     | 1.95        | 86     | 1     |
| 2:A:138:RCY:O1J  | 2:A:150:RCY:C1Y  | 0.91     | 2.18        | 6      | 2     |
| 1:A:70:TRP:HZ2   | 2:A:160:RCY:C1X  | 0.91     | 1.75        | 34     | 1     |
| 1:A:73:CYS:O     | 2:A:173:RCY:C1C  | 0.91     | 2.17        | 35     | 1     |
| 1:A:70:TRP:CD1   | 2:A:168:RCY:C1Y  | 0.91     | 2.50        | 37     | 1     |
| 2:A:160:RCY:N1V  | 2:A:168:RCY:C1U  | 0.91     | 2.33        | 47     | 1     |
| 2:A:168:RCY:O1J  | 2:A:173:RCY:C1V  | 0.91     | 2.19        | 48     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:160:RCY:N1R  | 0.91     | 2.24        | 50     | 2     |
| 2:A:138:RCY:C1Q  | 2:A:150:RCY:O1H  | 0.91     | 2.18        | 62     | 1     |
| 1:A:69:PRO:HG3   | 2:A:168:RCY:C1M  | 0.91     | 1.76        | 66     | 1     |
| 1:A:71:GLU:CD    | 2:A:173:RCY:H1V  | 0.91     | 1.84        | 68     | 1     |
| 1:A:71:GLU:OE2   | 2:A:168:RCY:C1P  | 0.91     | 2.18        | 93     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:160:RCY:H1CB | 2:A:173:RCY:H1Z  | 0.91     | 0.94        | 11     | 1     |
| 2:A:138:RCY:C1C  | 2:A:160:RCY:C1Y  | 0.91     | 1.97        | 27     | 2     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:H1VB | 0.91     | 1.41        | 58     | 2     |
| 1:A:72:ALA:O     | 2:A:168:RCY:C1W  | 0.91     | 2.03        | 57     | 1     |
| 2:A:168:RCY:H1ZB | 2:A:176:RCY:H1Z  | 0.91     | 1.43        | 6      | 1     |
| 2:A:168:RCY:O1G  | 2:A:168:RCY:C1C  | 0.91     | 2.17        | 80     | 4     |
| 2:A:173:RCY:O1H  | 2:A:173:RCY:C1V  | 0.91     | 2.19        | 83     | 8     |
| 2:A:173:RCY:H1Z  | 2:A:176:RCY:C1S  | 0.91     | 1.93        | 29     | 1     |
| 1:A:64:ILE:HB    | 2:A:160:RCY:H1YB | 0.91     | 1.40        | 47     | 1     |
| 1:A:63:ASP:CB    | 2:A:160:RCY:H1CB | 0.91     | 1.93        | 63     | 2     |
| 2:A:138:RCY:N1R  | 2:A:160:RCY:C1C  | 0.91     | 2.21        | 69     | 1     |
| 2:A:173:RCY:C1X  | 2:A:176:RCY:H1VA | 0.91     | 1.55        | 71     | 1     |
| 2:A:138:RCY:H1MA | 2:A:150:RCY:H1V  | 0.91     | 1.39        | 75     | 2     |
| 2:A:176:RCY:C1U  | 2:A:187:RCY:C1C  | 0.91     | 2.48        | 87     | 1     |
| 1:A:65:THR:H     | 2:A:168:RCY:H1L  | 0.91     | 1.22        | 97     | 1     |
| 1:A:63:ASP:O     | 2:A:160:RCY:H1Z  | 0.91     | 1.63        | 78     | 2     |
| 2:A:187:RCY:N1R  | 2:A:187:RCY:H1U  | 0.91     | 1.80        | 79     | 2     |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:H1YB | 0.91     | 0.94        | 35     | 1     |
| 1:A:62:THR:O     | 2:A:160:RCY:C1C  | 0.91     | 2.19        | 46     | 1     |
| 1:A:66:VAL:C     | 2:A:168:RCY:O1H  | 0.91     | 2.08        | 51     | 1     |
| 1:A:65:THR:HG21  | 2:A:160:RCY:H1Y  | 0.91     | 1.37        | 55     | 1     |
| 2:A:168:RCY:H1ZB | 2:A:173:RCY:N1V  | 0.91     | 1.80        | 55     | 1     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:C1Q  | 0.91     | 2.48        | 81     | 1     |
| 1:A:66:VAL:HA    | 2:A:121:RCY:C1Y  | 0.91     | 1.96        | 83     | 1     |
| 2:A:173:RCY:H1CB | 2:A:176:RCY:H1LA | 0.91     | 1.39        | 36     | 1     |
| 1:A:59:GLY:H     | 2:A:160:RCY:H1ZB | 0.91     | 1.23        | 49     | 1     |
| 1:A:71:GLU:CG    | 2:A:173:RCY:H1V  | 0.91     | 1.95        | 50     | 1     |
| 1:A:67:ILE:C     | 2:A:173:RCY:C1Y  | 0.91     | 2.16        | 100    | 2     |
| 1:A:63:ASP:HB2   | 2:A:138:RCY:C1Z  | 0.91     | 1.96        | 73     | 1     |
| 1:A:74:ASN:HA    | 2:A:173:RCY:C1V  | 0.91     | 1.96        | 78     | 1     |
| 2:A:173:RCY:H1C  | 2:A:176:RCY:N1R  | 0.91     | 1.73        | 78     | 1     |
| 2:A:168:RCY:C1U  | 2:A:187:RCY:H1ZA | 0.91     | 1.96        | 84     | 1     |
| 1:A:64:ILE:O     | 1:A:66:VAL:N     | 0.91     | 2.04        | 73     | 41    |
| 2:A:168:RCY:H1Z  | 2:A:187:RCY:O1G  | 0.91     | 1.66        | 3      | 1     |
| 2:A:176:RCY:C1P  | 2:A:187:RCY:H1MA | 0.91     | 1.96        | 26     | 2     |
| 2:A:121:RCY:H1C  | 2:A:168:RCY:H1CA | 0.91     | 1.42        | 27     | 1     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:C1Q  | 0.91     | 2.48        | 34     | 2     |
| 2:A:160:RCY:H1ZB | 2:A:160:RCY:O1H  | 0.91     | 1.65        | 41     | 3     |
| 1:A:71:GLU:O     | 2:A:173:RCY:C1L  | 0.91     | 2.18        | 88     | 2     |
| 1:A:64:ILE:N     | 2:A:138:RCY:C1V  | 0.91     | 2.17        | 85     | 1     |
| 2:A:130:RCY:H1CA | 2:A:130:RCY:C1P  | 0.91     | 1.96        | 86     | 10    |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:H1CA | 2:A:176:RCY:H1Y  | 0.91     | 1.41        | 15     | 2     |
| 1:A:64:ILE:O     | 2:A:168:RCY:H1LA | 0.91     | 1.65        | 17     | 1     |
| 1:A:70:TRP:CD2   | 2:A:173:RCY:C1Y  | 0.91     | 2.31        | 26     | 2     |
| 1:A:71:GLU:HB3   | 2:A:168:RCY:H1LA | 0.91     | 1.35        | 27     | 2     |
| 2:A:173:RCY:C1V  | 2:A:187:RCY:H1ZB | 0.91     | 1.95        | 36     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:173:RCY:H1VA | 0.91     | 1.95        | 37     | 1     |
| 1:A:70:TRP:NE1   | 2:A:168:RCY:C1S  | 0.91     | 2.34        | 42     | 1     |
| 1:A:71:GLU:OE2   | 2:A:150:RCY:O1G  | 0.91     | 1.87        | 58     | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:H1VB | 0.91     | 1.63        | 70     | 1     |
| 2:A:138:RCY:C1C  | 2:A:160:RCY:H1LA | 0.91     | 1.89        | 73     | 1     |
| 1:A:62:THR:CG2   | 2:A:160:RCY:C1P  | 0.91     | 2.49        | 82     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:H1CA | 0.91     | 1.95        | 83     | 1     |
| 1:A:73:CYS:HB3   | 2:A:168:RCY:C1Z  | 0.91     | 1.44        | 99     | 1     |
| 1:A:65:THR:HB    | 2:A:160:RCY:H1YB | 0.91     | 1.43        | 100    | 1     |
| 1:A:64:ILE:CG1   | 2:A:168:RCY:C1M  | 0.91     | 2.48        | 6      | 1     |
| 2:A:173:RCY:O1G  | 2:A:176:RCY:C1X  | 0.91     | 2.19        | 11     | 1     |
| 2:A:138:RCY:H1YB | 2:A:150:RCY:C1U  | 0.91     | 1.92        | 60     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:H1U  | 0.91     | 1.91        | 60     | 1     |
| 1:A:59:GLY:HA3   | 2:A:160:RCY:H1ZB | 0.91     | 1.38        | 100    | 1     |
| 2:A:187:RCY:H1CA | 2:A:187:RCY:C1P  | 0.90     | 1.95        | 4      | 5     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:C1Y  | 0.90     | 2.48        | 9      | 1     |
| 2:A:138:RCY:H1VA | 2:A:176:RCY:H1CA | 0.90     | 0.91        | 9      | 1     |
| 2:A:160:RCY:O1H  | 2:A:160:RCY:C1V  | 0.90     | 2.18        | 98     | 12    |
| 1:A:67:ILE:CG2   | 2:A:150:RCY:C1V  | 0.90     | 2.50        | 31     | 1     |
| 2:A:138:RCY:C1W  | 2:A:187:RCY:H1CB | 0.90     | 1.93        | 44     | 1     |
| 2:A:168:RCY:H1Z  | 2:A:173:RCY:H1V  | 0.90     | 1.42        | 58     | 1     |
| 1:A:70:TRP:O     | 2:A:176:RCY:H1C  | 0.90     | 1.66        | 62     | 1     |
| 2:A:138:RCY:H1VB | 2:A:150:RCY:H1VB | 0.90     | 0.90        | 67     | 1     |
| 1:A:64:ILE:HG13  | 2:A:168:RCY:N1R  | 0.90     | 1.80        | 69     | 1     |
| 1:A:66:VAL:CB    | 2:A:121:RCY:C1Y  | 0.90     | 2.34        | 83     | 1     |
| 1:A:71:GLU:CD    | 2:A:130:RCY:H1ZA | 0.90     | 1.84        | 94     | 1     |
| 1:A:70:TRP:C     | 2:A:173:RCY:H1VB | 0.90     | 1.87        | 6      | 1     |
| 2:A:160:RCY:C1Y  | 2:A:173:RCY:C1W  | 0.90     | 2.27        | 41     | 1     |
| 2:A:138:RCY:C1W  | 2:A:150:RCY:C1Q  | 0.90     | 2.50        | 60     | 1     |
| 2:A:150:RCY:H1M  | 2:A:187:RCY:H1Z  | 0.90     | 1.43        | 69     | 1     |
| 1:A:63:ASP:O     | 2:A:150:RCY:C1V  | 0.90     | 2.19        | 85     | 1     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:C1Q  | 0.90     | 2.37        | 88     | 2     |
| 2:A:173:RCY:H1YA | 2:A:187:RCY:O1J  | 0.90     | 1.65        | 92     | 1     |
| 2:A:173:RCY:N1R  | 2:A:187:RCY:C1C  | 0.90     | 2.32        | 99     | 1     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:H1V  | 0.90     | 0.91        | 62     | 2     |
| 2:A:138:RCY:C1Q  | 2:A:150:RCY:C1V  | 0.90     | 2.49        | 19     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:150:RCY:C1M  | 2:A:160:RCY:H1VB | 0.90     | 1.79        | 42     | 1     |
| 1:A:62:THR:O     | 2:A:160:RCY:H1CA | 0.90     | 1.67        | 46     | 1     |
| 2:A:173:RCY:H1VA | 2:A:187:RCY:H1VA | 0.90     | 0.90        | 48     | 1     |
| 2:A:150:RCY:O1H  | 2:A:150:RCY:C1V  | 0.90     | 2.19        | 90     | 9     |
| 2:A:121:RCY:H1CA | 2:A:121:RCY:C1P  | 0.90     | 1.96        | 90     | 9     |
| 1:A:64:ILE:HD11  | 2:A:168:RCY:C1L  | 0.90     | 1.76        | 12     | 2     |
| 1:A:61:GLY:CA    | 2:A:160:RCY:H1LA | 0.90     | 1.95        | 19     | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:C1W  | 0.90     | 2.18        | 78     | 2     |
| 1:A:61:GLY:HA2   | 2:A:168:RCY:C1P  | 0.90     | 1.95        | 24     | 1     |
| 2:A:168:RCY:C1U  | 2:A:173:RCY:H1V  | 0.90     | 1.95        | 27     | 1     |
| 1:A:75:HIS:O     | 2:A:173:RCY:C1C  | 0.90     | 2.20        | 73     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:187:RCY:H1Y  | 0.90     | 1.95        | 7      | 1     |
| 2:A:130:RCY:C1Y  | 2:A:160:RCY:H1VB | 0.90     | 1.96        | 18     | 2     |
| 1:A:70:TRP:HB3   | 2:A:168:RCY:H1CB | 0.90     | 0.92        | 20     | 1     |
| 1:A:78:LEU:HD22  | 2:A:138:RCY:H1V  | 0.90     | 1.43        | 40     | 2     |
| 2:A:138:RCY:H1M  | 2:A:150:RCY:H1C  | 0.90     | 1.43        | 56     | 2     |
| 1:A:73:CYS:CB    | 2:A:176:RCY:N1R  | 0.90     | 2.14        | 70     | 1     |
| 1:A:70:TRP:CG    | 2:A:187:RCY:H1ZB | 0.90     | 2.00        | 76     | 1     |
| 2:A:176:RCY:H1CA | 2:A:187:RCY:C1M  | 0.90     | 1.95        | 86     | 1     |
| 1:A:70:TRP:CH2   | 2:A:130:RCY:C1Y  | 0.90     | 2.53        | 88     | 1     |
| 2:A:130:RCY:H1VA | 2:A:187:RCY:H1VB | 0.90     | 1.44        | 94     | 1     |
| 2:A:173:RCY:H1S  | 2:A:176:RCY:O1H  | 0.90     | 1.64        | 54     | 2     |
| 2:A:173:RCY:H1CA | 2:A:173:RCY:C1P  | 0.90     | 1.96        | 86     | 4     |
| 2:A:150:RCY:C1U  | 2:A:160:RCY:H1VB | 0.90     | 1.94        | 42     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:H1MA | 0.90     | 1.95        | 62     | 1     |
| 2:A:150:RCY:H1VA | 2:A:187:RCY:C1Y  | 0.90     | 1.97        | 66     | 1     |
| 2:A:110:RCY:H1YB | 2:A:121:RCY:C1V  | 0.90     | 1.93        | 81     | 1     |
| 1:A:61:GLY:CA    | 2:A:160:RCY:C1L  | 0.90     | 2.46        | 2      | 2     |
| 2:A:130:RCY:C1C  | 2:A:160:RCY:H1CB | 0.90     | 1.97        | 8      | 1     |
| 1:A:61:GLY:C     | 2:A:160:RCY:H1LA | 0.90     | 1.85        | 19     | 1     |
| 1:A:75:HIS:C     | 2:A:173:RCY:C1C  | 0.90     | 2.39        | 29     | 1     |
| 2:A:150:RCY:O1J  | 2:A:187:RCY:C1C  | 0.90     | 2.19        | 50     | 1     |
| 1:A:71:GLU:OE2   | 2:A:110:RCY:H1CB | 0.90     | 1.65        | 5      | 1     |
| 1:A:71:GLU:OE2   | 2:A:168:RCY:H1CB | 0.90     | 1.66        | 36     | 2     |
| 1:A:69:PRO:CD    | 2:A:160:RCY:C1C  | 0.90     | 2.50        | 35     | 1     |
| 1:A:73:CYS:CB    | 2:A:176:RCY:H1C  | 0.90     | 1.66        | 52     | 1     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:C1Z  | 0.90     | 2.50        | 93     | 1     |
| 1:A:66:VAL:HG13  | 2:A:121:RCY:H1CB | 0.90     | 1.44        | 4      | 1     |
| 2:A:187:RCY:O1H  | 2:A:187:RCY:H1ZB | 0.90     | 1.67        | 68     | 3     |
| 2:A:168:RCY:H1L  | 2:A:168:RCY:H1VB | 0.90     | 1.42        | 7      | 1     |
| 1:A:73:CYS:O     | 2:A:173:RCY:H1S  | 0.90     | 1.67        | 41     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:77:GLU:HG3   | 2:A:173:RCY:C1V  | 0.90     | 1.97        | 32     | 1     |
| 2:A:138:RCY:H1Z  | 2:A:187:RCY:H1CB | 0.90     | 0.91        | 44     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:173:RCY:H1V  | 0.90     | 1.97        | 58     | 2     |
| 1:A:71:GLU:HG3   | 2:A:173:RCY:H1V  | 0.90     | 1.43        | 50     | 1     |
| 1:A:72:ALA:CB    | 2:A:173:RCY:C1M  | 0.90     | 2.49        | 80     | 1     |
| 1:A:71:GLU:HB3   | 2:A:173:RCY:C1Q  | 0.90     | 1.97        | 89     | 1     |
| 2:A:168:RCY:H1S  | 2:A:173:RCY:H1YB | 0.90     | 0.92        | 94     | 1     |
| 1:A:70:TRP:NE1   | 2:A:176:RCY:C1M  | 0.90     | 2.14        | 4      | 1     |
| 2:A:176:RCY:O1H  | 2:A:176:RCY:C1V  | 0.90     | 2.18        | 45     | 8     |
| 2:A:150:RCY:H1YA | 2:A:187:RCY:C1Y  | 0.90     | 1.96        | 32     | 2     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:H1S  | 0.90     | 1.41        | 35     | 1     |
| 1:A:68:CYS:CB    | 2:A:176:RCY:O1J  | 0.90     | 2.20        | 80     | 2     |
| 1:A:70:TRP:CH2   | 2:A:176:RCY:C1Z  | 0.90     | 2.55        | 85     | 1     |
| 1:A:63:ASP:O     | 2:A:160:RCY:H1V  | 0.89     | 1.68        | 3      | 1     |
| 2:A:130:RCY:H1CA | 2:A:160:RCY:H1CB | 0.89     | 1.43        | 8      | 1     |
| 1:A:70:TRP:HE1   | 2:A:121:RCY:H1Y  | 0.89     | 1.04        | 49     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:150:RCY:C1Q  | 0.89     | 2.50        | 60     | 1     |
| 2:A:173:RCY:C1S  | 2:A:176:RCY:C1M  | 0.89     | 2.47        | 67     | 1     |
| 1:A:64:ILE:HD11  | 2:A:187:RCY:H1M  | 0.89     | 1.37        | 85     | 1     |
| 1:A:70:TRP:HA    | 2:A:168:RCY:H1VB | 0.89     | 1.41        | 22     | 1     |
| 2:A:173:RCY:H1U  | 2:A:176:RCY:C1L  | 0.89     | 1.97        | 38     | 1     |
| 1:A:70:TRP:NE1   | 2:A:176:RCY:C1V  | 0.89     | 2.35        | 82     | 1     |
| 1:A:74:ASN:OD1   | 2:A:173:RCY:H1C  | 0.89     | 1.67        | 91     | 1     |
| 1:A:70:TRP:CH2   | 2:A:176:RCY:C1V  | 0.89     | 2.52        | 4      | 1     |
| 1:A:70:TRP:HB2   | 2:A:173:RCY:C1M  | 0.89     | 1.74        | 6      | 1     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:H1ZB | 0.89     | 1.97        | 100    | 2     |
| 1:A:70:TRP:HE1   | 2:A:168:RCY:C1Q  | 0.89     | 1.80        | 42     | 2     |
| 2:A:150:RCY:O1J  | 2:A:187:RCY:C1Y  | 0.89     | 2.19        | 37     | 2     |
| 2:A:160:RCY:O1H  | 2:A:160:RCY:C1Z  | 0.89     | 2.19        | 91     | 5     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:H1V  | 0.89     | 1.44        | 69     | 1     |
| 1:A:75:HIS:HA    | 2:A:168:RCY:H1ZB | 0.89     | 1.43        | 73     | 1     |
| 2:A:130:RCY:C1M  | 2:A:130:RCY:C1X  | 0.89     | 0.90        | 79     | 1     |
| 1:A:66:VAL:CA    | 2:A:121:RCY:C1Y  | 0.89     | 2.50        | 83     | 1     |
| 1:A:65:THR:HG22  | 2:A:160:RCY:H1MA | 0.89     | 0.91        | 100    | 1     |
| 2:A:173:RCY:H1C  | 2:A:176:RCY:H1C  | 0.89     | 0.91        | 8      | 1     |
| 1:A:60:CYS:O     | 2:A:130:RCY:O1H  | 0.89     | 1.91        | 18     | 1     |
| 1:A:68:CYS:N     | 2:A:176:RCY:N1V  | 0.89     | 1.85        | 22     | 1     |
| 1:A:70:TRP:CD2   | 2:A:168:RCY:H1VB | 0.89     | 2.02        | 28     | 1     |
| 1:A:65:THR:N     | 2:A:168:RCY:O1J  | 0.89     | 2.05        | 30     | 1     |
| 2:A:150:RCY:C1W  | 2:A:187:RCY:O1J  | 0.89     | 2.08        | 53     | 1     |
| 1:A:64:ILE:HD13  | 2:A:150:RCY:C1L  | 0.89     | 1.97        | 75     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:70:TRP:CD1   | 2:A:176:RCY:H1M  | 0.89     | 2.03        | 4      | 1     |
| 2:A:138:RCY:H1VA | 2:A:187:RCY:H1ZA | 0.89     | 0.91        | 11     | 1     |
| 2:A:168:RCY:O1H  | 2:A:168:RCY:C1V  | 0.89     | 2.19        | 42     | 11    |
| 2:A:187:RCY:H1CA | 2:A:187:RCY:C1Q  | 0.89     | 1.96        | 18     | 8     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:H1Z  | 0.89     | 1.96        | 59     | 2     |
| 2:A:173:RCY:H1Z  | 2:A:176:RCY:H1VB | 0.89     | 0.93        | 31     | 1     |
| 1:A:74:ASN:HA    | 2:A:173:RCY:C1C  | 0.89     | 1.96        | 35     | 1     |
| 2:A:160:RCY:H1VA | 2:A:176:RCY:H1VA | 0.89     | 0.92        | 57     | 1     |
| 2:A:173:RCY:H1YA | 2:A:176:RCY:C1W  | 0.89     | 1.86        | 99     | 2     |
| 1:A:63:ASP:CG    | 2:A:160:RCY:C1Z  | 0.89     | 2.19        | 73     | 1     |
| 2:A:173:RCY:H1MA | 2:A:176:RCY:H1YA | 0.89     | 1.45        | 74     | 1     |
| 2:A:168:RCY:O1G  | 2:A:176:RCY:O1H  | 0.89     | 1.82        | 76     | 1     |
| 2:A:173:RCY:H1Z  | 2:A:187:RCY:O1J  | 0.89     | 1.67        | 82     | 1     |
| 2:A:176:RCY:H1CA | 2:A:176:RCY:C1P  | 0.89     | 1.96        | 46     | 6     |
| 2:A:110:RCY:O1H  | 2:A:110:RCY:C1V  | 0.89     | 2.18        | 80     | 8     |
| 2:A:121:RCY:C1C  | 2:A:168:RCY:H1CA | 0.89     | 1.97        | 27     | 1     |
| 1:A:71:GLU:OE2   | 2:A:176:RCY:O1G  | 0.89     | 1.90        | 37     | 1     |
| 1:A:74:ASN:HB3   | 2:A:176:RCY:C1P  | 0.89     | 1.97        | 52     | 1     |
| 2:A:138:RCY:H1MA | 2:A:187:RCY:H1YB | 0.89     | 1.00        | 68     | 1     |
| 2:A:130:RCY:H1YA | 2:A:160:RCY:C1V  | 0.89     | 1.97        | 81     | 1     |
| 2:A:168:RCY:C1Q  | 2:A:173:RCY:H1YA | 0.89     | 1.90        | 84     | 1     |
| 2:A:138:RCY:H1YA | 2:A:150:RCY:C1M  | 0.89     | 1.96        | 26     | 2     |
| 1:A:69:PRO:HD2   | 2:A:168:RCY:C1Q  | 0.89     | 1.98        | 23     | 3     |
| 1:A:71:GLU:CG    | 2:A:176:RCY:C1C  | 0.89     | 2.51        | 44     | 1     |
| 1:A:60:CYS:C     | 2:A:160:RCY:C1P  | 0.89     | 2.41        | 2      | 1     |
| 2:A:168:RCY:H1CB | 2:A:173:RCY:H1M  | 0.89     | 1.44        | 99     | 2     |
| 1:A:69:PRO:CD    | 2:A:160:RCY:H1CA | 0.89     | 1.98        | 35     | 2     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:H1YB | 0.89     | 1.96        | 35     | 2     |
| 1:A:64:ILE:HB    | 2:A:160:RCY:C1Y  | 0.89     | 1.95        | 47     | 1     |
| 2:A:130:RCY:N1V  | 2:A:138:RCY:H1L  | 0.89     | 1.82        | 58     | 1     |
| 1:A:74:ASN:H     | 2:A:176:RCY:H1VA | 0.89     | 1.23        | 62     | 1     |
| 2:A:138:RCY:O1G  | 2:A:187:RCY:C1Y  | 0.89     | 2.20        | 63     | 1     |
| 1:A:59:GLY:HA3   | 2:A:160:RCY:C1V  | 0.89     | 1.96        | 83     | 1     |
| 2:A:150:RCY:C1M  | 2:A:187:RCY:H1V  | 0.89     | 1.95        | 89     | 1     |
| 2:A:176:RCY:H1V  | 2:A:187:RCY:N1V  | 0.89     | 1.82        | 91     | 1     |
| 1:A:70:TRP:CD2   | 2:A:187:RCY:H1ZB | 0.89     | 2.02        | 92     | 1     |
| 2:A:130:RCY:O1H  | 2:A:130:RCY:C1V  | 0.89     | 2.21        | 72     | 9     |
| 1:A:73:CYS:O     | 2:A:176:RCY:H1CB | 0.89     | 1.66        | 20     | 1     |
| 1:A:70:TRP:HE1   | 2:A:168:RCY:H1ZB | 0.89     | 1.19        | 24     | 1     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:C1S  | 0.89     | 2.44        | 26     | 1     |
| 1:A:64:ILE:HG23  | 2:A:168:RCY:O1H  | 0.89     | 1.66        | 62     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:73:CYS:HB3   | 2:A:176:RCY:H1M  | 0.89     | 1.43        | 70     | 1     |
| 1:A:62:THR:HB    | 2:A:130:RCY:H1V  | 0.89     | 1.44        | 9      | 1     |
| 2:A:168:RCY:C1Y  | 2:A:176:RCY:O1J  | 0.89     | 2.21        | 90     | 1     |
| 1:A:71:GLU:HB2   | 2:A:176:RCY:C1V  | 0.88     | 1.95        | 49     | 1     |
| 2:A:150:RCY:H1CA | 2:A:187:RCY:N1V  | 0.88     | 1.83        | 50     | 1     |
| 1:A:70:TRP:HB3   | 2:A:187:RCY:C1Z  | 0.88     | 1.98        | 51     | 1     |
| 2:A:138:RCY:H1M  | 2:A:187:RCY:H1YB | 0.88     | 0.90        | 68     | 1     |
| 1:A:76:CYS:HB3   | 2:A:160:RCY:N1V  | 0.88     | 1.80        | 73     | 1     |
| 1:A:67:ILE:O     | 2:A:173:RCY:C1M  | 0.88     | 2.19        | 80     | 1     |
| 2:A:168:RCY:H1ZA | 2:A:187:RCY:C1W  | 0.88     | 1.91        | 84     | 1     |
| 2:A:150:RCY:H1ZB | 2:A:160:RCY:H1YB | 0.88     | 1.38        | 88     | 1     |
| 1:A:66:VAL:HG12  | 2:A:121:RCY:H1Z  | 0.88     | 0.91        | 89     | 1     |
| 2:A:176:RCY:H1VB | 2:A:187:RCY:C1M  | 0.88     | 1.96        | 96     | 1     |
| 2:A:110:RCY:C1Z  | 2:A:110:RCY:O1H  | 0.88     | 2.21        | 5      | 1     |
| 2:A:138:RCY:H1VB | 2:A:150:RCY:H1C  | 0.88     | 0.89        | 10     | 1     |
| 1:A:70:TRP:O     | 2:A:168:RCY:H1VB | 0.88     | 1.68        | 20     | 1     |
| 1:A:70:TRP:HB2   | 2:A:168:RCY:C1M  | 0.88     | 1.95        | 28     | 1     |
| 2:A:150:RCY:H1Y  | 2:A:176:RCY:H1Y  | 0.88     | 1.44        | 37     | 1     |
| 2:A:168:RCY:H1S  | 2:A:173:RCY:H1Y  | 0.88     | 1.44        | 84     | 1     |
| 2:A:168:RCY:H1Z  | 2:A:176:RCY:C1Z  | 0.88     | 1.95        | 11     | 2     |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:O1J  | 0.88     | 2.21        | 51     | 2     |
| 2:A:130:RCY:H1VA | 2:A:187:RCY:C1V  | 0.88     | 1.98        | 94     | 1     |
| 2:A:150:RCY:H1YA | 2:A:173:RCY:C1X  | 0.88     | 1.90        | 3      | 1     |
| 1:A:75:HIS:HB2   | 2:A:176:RCY:H1L  | 0.88     | 1.45        | 13     | 1     |
| 1:A:60:CYS:CA    | 2:A:130:RCY:O1H  | 0.88     | 2.20        | 18     | 1     |
| 1:A:70:TRP:HB3   | 2:A:168:RCY:H1LA | 0.88     | 0.90        | 46     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:187:RCY:C1W  | 0.88     | 2.39        | 49     | 2     |
| 1:A:74:ASN:H     | 2:A:173:RCY:H1L  | 0.88     | 1.25        | 52     | 1     |
| 2:A:173:RCY:H1VB | 2:A:187:RCY:H1Y  | 0.88     | 1.46        | 67     | 1     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:C1M  | 0.88     | 2.52        | 70     | 1     |
| 2:A:121:RCY:H1ZB | 2:A:121:RCY:C1Q  | 0.88     | 1.99        | 29     | 7     |
| 1:A:70:TRP:CB    | 2:A:176:RCY:C1Z  | 0.88     | 2.31        | 18     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:176:RCY:C1L  | 0.88     | 1.99        | 20     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:160:RCY:H1VB | 0.88     | 2.03        | 34     | 1     |
| 2:A:173:RCY:O1G  | 2:A:176:RCY:H1MA | 0.88     | 1.68        | 41     | 1     |
| 1:A:73:CYS:HB2   | 2:A:176:RCY:H1C  | 0.88     | 0.89        | 52     | 1     |
| 2:A:173:RCY:H1CB | 2:A:176:RCY:H1M  | 0.88     | 0.89        | 52     | 1     |
| 2:A:168:RCY:O1H  | 2:A:168:RCY:C1C  | 0.88     | 2.18        | 54     | 2     |
| 2:A:173:RCY:C1P  | 2:A:176:RCY:H1C  | 0.88     | 1.95        | 64     | 1     |
| 2:A:168:RCY:C1Q  | 2:A:168:RCY:C1S  | 0.88     | 2.51        | 79     | 1     |
| 1:A:75:HIS:O     | 2:A:173:RCY:H1Z  | 0.88     | 1.68        | 88     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:H1U  | 2:A:176:RCY:C1W  | 0.88     | 1.99        | 98     | 1     |
| 2:A:173:RCY:O1H  | 2:A:176:RCY:O1G  | 0.88     | 1.92        | 23     | 2     |
| 1:A:70:TRP:CE3   | 2:A:176:RCY:C1Z  | 0.88     | 2.34        | 4      | 1     |
| 1:A:75:HIS:N     | 2:A:176:RCY:C1C  | 0.88     | 2.36        | 20     | 1     |
| 1:A:62:THR:O     | 2:A:168:RCY:C1C  | 0.88     | 2.21        | 61     | 2     |
| 1:A:65:THR:O     | 2:A:150:RCY:C1Y  | 0.88     | 2.22        | 31     | 1     |
| 1:A:74:ASN:ND2   | 2:A:121:RCY:O1J  | 0.88     | 2.06        | 35     | 1     |
| 2:A:173:RCY:H1YB | 2:A:187:RCY:H1Z  | 0.88     | 0.90        | 42     | 1     |
| 1:A:78:LEU:HD11  | 2:A:176:RCY:H1U  | 0.88     | 1.37        | 56     | 1     |
| 1:A:64:ILE:CA    | 2:A:168:RCY:O1H  | 0.88     | 2.20        | 78     | 1     |
| 1:A:64:ILE:HD12  | 2:A:187:RCY:C1Y  | 0.88     | 1.99        | 85     | 1     |
| 1:A:78:LEU:HD22  | 2:A:187:RCY:C1C  | 0.88     | 0.63        | 91     | 1     |
| 2:A:150:RCY:N1V  | 2:A:187:RCY:H1CB | 0.88     | 1.78        | 50     | 1     |
| 2:A:138:RCY:O1J  | 2:A:187:RCY:C1Y  | 0.88     | 2.21        | 88     | 3     |
| 1:A:69:PRO:HG3   | 2:A:173:RCY:H1YB | 0.88     | 1.45        | 61     | 1     |
| 2:A:130:RCY:H1C  | 2:A:160:RCY:H1CA | 0.88     | 1.44        | 64     | 1     |
| 1:A:71:GLU:HG2   | 2:A:168:RCY:H1LA | 0.88     | 1.44        | 74     | 1     |
| 2:A:138:RCY:C1V  | 2:A:138:RCY:C1L  | 0.88     | 2.51        | 74     | 1     |
| 1:A:67:ILE:CG2   | 2:A:173:RCY:H1MA | 0.88     | 1.77        | 80     | 1     |
| 2:A:138:RCY:O1J  | 2:A:160:RCY:C1V  | 0.88     | 2.20        | 92     | 1     |
| 2:A:168:RCY:H1CA | 2:A:168:RCY:C1Q  | 0.88     | 1.99        | 98     | 6     |
| 1:A:70:TRP:HB2   | 2:A:173:RCY:H1YB | 0.88     | 1.46        | 85     | 2     |
| 2:A:110:RCY:H1CA | 2:A:110:RCY:C1P  | 0.88     | 1.98        | 77     | 9     |
| 2:A:138:RCY:H1CA | 2:A:138:RCY:C1P  | 0.88     | 1.97        | 17     | 8     |
| 1:A:70:TRP:O     | 2:A:173:RCY:C1M  | 0.88     | 2.21        | 11     | 2     |
| 1:A:67:ILE:HD11  | 2:A:173:RCY:O1H  | 0.88     | 1.68        | 16     | 1     |
| 1:A:70:TRP:HZ2   | 2:A:168:RCY:O1J  | 0.88     | 1.52        | 24     | 1     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:H1C  | 0.88     | 1.98        | 27     | 1     |
| 2:A:173:RCY:H1ZA | 2:A:176:RCY:O1J  | 0.88     | 1.66        | 71     | 1     |
| 1:A:70:TRP:CE2   | 2:A:187:RCY:H1ZA | 0.88     | 2.02        | 92     | 1     |
| 2:A:168:RCY:H1ZA | 2:A:187:RCY:H1Y  | 0.88     | 1.43        | 97     | 1     |
| 2:A:138:RCY:C1U  | 2:A:150:RCY:H1V  | 0.88     | 1.94        | 19     | 2     |
| 2:A:138:RCY:H1YA | 2:A:150:RCY:C1X  | 0.88     | 1.98        | 97     | 1     |
| 1:A:64:ILE:HG21  | 2:A:160:RCY:H1MA | 0.88     | 0.90        | 47     | 2     |
| 2:A:150:RCY:H1YA | 2:A:173:RCY:C1U  | 0.88     | 1.97        | 3      | 1     |
| 2:A:173:RCY:H1LA | 2:A:176:RCY:H1V  | 0.88     | 1.45        | 7      | 1     |
| 1:A:70:TRP:O     | 2:A:173:RCY:H1C  | 0.88     | 1.68        | 38     | 1     |
| 1:A:64:ILE:HD12  | 2:A:168:RCY:O1H  | 0.88     | 1.68        | 58     | 2     |
| 2:A:138:RCY:H1Y  | 2:A:176:RCY:C1P  | 0.88     | 1.98        | 48     | 1     |
| 1:A:69:PRO:CG    | 2:A:187:RCY:H1ZA | 0.88     | 1.99        | 54     | 1     |
| 2:A:130:RCY:O1J  | 2:A:138:RCY:O1G  | 0.88     | 1.90        | 58     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:72:ALA:CB    | 2:A:173:RCY:H1S  | 0.88     | 1.95        | 78     | 2     |
| 1:A:63:ASP:CB    | 2:A:150:RCY:H1Z  | 0.88     | 1.98        | 80     | 1     |
| 1:A:75:HIS:ND1   | 2:A:176:RCY:H1CB | 0.88     | 1.80        | 84     | 1     |
| 2:A:160:RCY:C1C  | 2:A:160:RCY:C1Q  | 0.87     | 2.38        | 7      | 2     |
| 2:A:173:RCY:O1H  | 2:A:187:RCY:C1C  | 0.87     | 2.17        | 7      | 1     |
| 1:A:74:ASN:N     | 2:A:173:RCY:H1L  | 0.87     | 1.84        | 52     | 2     |
| 1:A:69:PRO:HB3   | 2:A:176:RCY:H1ZB | 0.87     | 1.42        | 66     | 1     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:C1L  | 0.87     | 1.79        | 73     | 1     |
| 2:A:168:RCY:H1YB | 2:A:187:RCY:H1VA | 0.87     | 1.44        | 82     | 1     |
| 1:A:67:ILE:CD1   | 2:A:160:RCY:H1VA | 0.87     | 1.99        | 86     | 1     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:H1M  | 0.87     | 0.91        | 1      | 1     |
| 1:A:71:GLU:OE1   | 2:A:110:RCY:O1G  | 0.87     | 1.91        | 5      | 1     |
| 2:A:173:RCY:O1G  | 2:A:176:RCY:H1VA | 0.87     | 1.66        | 11     | 1     |
| 1:A:60:CYS:C     | 2:A:130:RCY:C1M  | 0.87     | 2.42        | 18     | 1     |
| 2:A:121:RCY:O1H  | 2:A:121:RCY:C1V  | 0.87     | 2.22        | 27     | 7     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:H1V  | 0.87     | 1.45        | 58     | 3     |
| 2:A:150:RCY:C1Y  | 2:A:160:RCY:H1ZA | 0.87     | 1.97        | 29     | 1     |
| 1:A:75:HIS:NE2   | 2:A:173:RCY:H1ZB | 0.87     | 1.84        | 42     | 1     |
| 1:A:69:PRO:HG3   | 2:A:187:RCY:H1Z  | 0.87     | 1.46        | 54     | 1     |
| 1:A:65:THR:OG1   | 2:A:168:RCY:C1Q  | 0.87     | 2.15        | 60     | 1     |
| 2:A:176:RCY:C1U  | 2:A:187:RCY:H1VB | 0.87     | 1.98        | 77     | 2     |
| 1:A:67:ILE:HB    | 2:A:173:RCY:H1YA | 0.87     | 1.44        | 80     | 1     |
| 2:A:110:RCY:H1ZB | 2:A:110:RCY:C1Q  | 0.87     | 1.99        | 37     | 5     |
| 2:A:168:RCY:C1V  | 2:A:168:RCY:O1H  | 0.87     | 2.21        | 20     | 5     |
| 1:A:60:CYS:HB3   | 2:A:130:RCY:C1Q  | 0.87     | 2.00        | 18     | 1     |
| 1:A:71:GLU:HG2   | 2:A:176:RCY:O1G  | 0.87     | 1.69        | 44     | 1     |
| 1:A:59:GLY:C     | 2:A:160:RCY:C1P  | 0.87     | 2.42        | 70     | 1     |
| 2:A:168:RCY:C1L  | 2:A:173:RCY:H1ZB | 0.87     | 1.99        | 10     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:160:RCY:C1V  | 0.87     | 2.52        | 81     | 4     |
| 2:A:138:RCY:H1Z  | 2:A:187:RCY:O1H  | 0.87     | 1.67        | 59     | 1     |
| 2:A:173:RCY:C1V  | 2:A:173:RCY:O1H  | 0.87     | 2.19        | 64     | 1     |
| 1:A:69:PRO:HB3   | 2:A:176:RCY:H1Y  | 0.87     | 1.42        | 72     | 1     |
| 2:A:130:RCY:H1YA | 2:A:160:RCY:O1H  | 0.87     | 1.68        | 88     | 1     |
| 2:A:173:RCY:H1MA | 2:A:176:RCY:C1M  | 0.87     | 1.65        | 89     | 1     |
| 2:A:168:RCY:H1YA | 2:A:176:RCY:N1V  | 0.87     | 1.83        | 90     | 1     |
| 1:A:70:TRP:HZ2   | 2:A:176:RCY:H1V  | 0.87     | 1.06        | 4      | 1     |
| 2:A:168:RCY:H1VB | 2:A:176:RCY:C1M  | 0.87     | 2.00        | 20     | 1     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:C1Z  | 0.87     | 2.52        | 27     | 3     |
| 1:A:67:ILE:O     | 2:A:150:RCY:H1YA | 0.87     | 1.69        | 31     | 1     |
| 1:A:76:CYS:CB    | 2:A:187:RCY:H1CB | 0.87     | 1.94        | 34     | 1     |
| 2:A:160:RCY:H1C  | 2:A:168:RCY:C1Q  | 0.87     | 1.99        | 39     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:70:TRP:CD1   | 2:A:168:RCY:H1S  | 0.87     | 2.04        | 42     | 1     |
| 1:A:64:ILE:HD12  | 2:A:187:RCY:H1YA | 0.87     | 1.46        | 85     | 1     |
| 1:A:71:GLU:OE1   | 2:A:176:RCY:H1VA | 0.87     | 1.67        | 92     | 1     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:C1Z  | 0.87     | 2.49        | 6      | 1     |
| 1:A:70:TRP:CA    | 2:A:176:RCY:C1Z  | 0.87     | 2.51        | 18     | 1     |
| 2:A:168:RCY:C1U  | 2:A:187:RCY:H1Z  | 0.87     | 1.99        | 31     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:N1R  | 0.87     | 2.36        | 50     | 1     |
| 1:A:60:CYS:H     | 2:A:160:RCY:H1LA | 0.87     | 1.13        | 70     | 1     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:H1ZB | 0.87     | 1.97        | 84     | 1     |
| 1:A:70:TRP:CD1   | 2:A:176:RCY:H1MA | 0.87     | 2.03        | 4      | 1     |
| 2:A:168:RCY:C1U  | 2:A:173:RCY:H1M  | 0.87     | 1.98        | 27     | 1     |
| 1:A:70:TRP:HZ3   | 2:A:168:RCY:C1Y  | 0.87     | 1.81        | 41     | 2     |
| 2:A:150:RCY:H1V  | 2:A:187:RCY:C1V  | 0.87     | 2.00        | 38     | 1     |
| 1:A:62:THR:CG2   | 2:A:160:RCY:C1W  | 0.87     | 2.42        | 46     | 1     |
| 2:A:160:RCY:C1W  | 2:A:168:RCY:H1VB | 0.87     | 1.99        | 55     | 1     |
| 1:A:66:VAL:HG23  | 1:A:67:ILE:H     | 0.87     | 1.30        | 83     | 3     |
| 1:A:71:GLU:C     | 2:A:173:RCY:H1M  | 0.87     | 1.85        | 78     | 1     |
| 2:A:173:RCY:H1YB | 2:A:176:RCY:H1CB | 0.87     | 1.46        | 86     | 1     |
| 1:A:71:GLU:CD    | 2:A:168:RCY:C1X  | 0.87     | 2.43        | 93     | 1     |
| 1:A:64:ILE:HG13  | 2:A:168:RCY:O1H  | 0.87     | 1.68        | 6      | 3     |
| 1:A:71:GLU:HB2   | 2:A:168:RCY:H1U  | 0.87     | 1.46        | 37     | 1     |
| 2:A:173:RCY:C1X  | 2:A:176:RCY:C1Q  | 0.87     | 2.53        | 38     | 1     |
| 1:A:66:VAL:CG2   | 2:A:168:RCY:H1V  | 0.87     | 1.98        | 80     | 1     |
| 1:A:71:GLU:CG    | 2:A:168:RCY:C1X  | 0.87     | 2.52        | 93     | 1     |
| 2:A:138:RCY:N1R  | 2:A:187:RCY:C1C  | 0.87     | 2.35        | 5      | 1     |
| 2:A:173:RCY:O1H  | 2:A:176:RCY:C1P  | 0.87     | 2.23        | 23     | 1     |
| 1:A:70:TRP:CE2   | 2:A:168:RCY:H1ZB | 0.87     | 1.93        | 24     | 1     |
| 2:A:160:RCY:C1P  | 2:A:168:RCY:C1M  | 0.87     | 2.32        | 26     | 2     |
| 2:A:173:RCY:H1YA | 2:A:187:RCY:C1Y  | 0.87     | 1.91        | 31     | 2     |
| 2:A:150:RCY:H1YA | 2:A:187:RCY:H1V  | 0.87     | 1.44        | 38     | 1     |
| 2:A:110:RCY:H1YB | 2:A:121:RCY:H1C  | 0.87     | 1.03        | 81     | 1     |
| 1:A:68:CYS:C     | 2:A:168:RCY:H1S  | 0.87     | 1.90        | 83     | 1     |
| 2:A:138:RCY:O1G  | 2:A:150:RCY:C1C  | 0.86     | 2.22        | 9      | 2     |
| 2:A:160:RCY:H1YB | 2:A:168:RCY:C1Z  | 0.86     | 1.99        | 9      | 2     |
| 1:A:70:TRP:CE3   | 2:A:187:RCY:C1Z  | 0.86     | 2.44        | 76     | 1     |
| 1:A:71:GLU:CD    | 2:A:130:RCY:C1Z  | 0.86     | 2.43        | 94     | 1     |
| 2:A:168:RCY:H1ZB | 2:A:187:RCY:C1P  | 0.86     | 2.00        | 100    | 1     |
| 2:A:168:RCY:H1S  | 2:A:173:RCY:C1M  | 0.86     | 1.63        | 18     | 1     |
| 2:A:160:RCY:C1C  | 2:A:168:RCY:O1G  | 0.86     | 2.22        | 19     | 2     |
| 2:A:168:RCY:H1V  | 2:A:187:RCY:C1Z  | 0.86     | 1.99        | 31     | 1     |
| 2:A:176:RCY:H1C  | 2:A:187:RCY:O1J  | 0.86     | 1.70        | 31     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:72:ALA:N     | 2:A:173:RCY:C1Z  | 0.86     | 2.35        | 50     | 1     |
| 1:A:69:PRO:CD    | 2:A:173:RCY:C1Z  | 0.86     | 2.24        | 61     | 1     |
| 1:A:69:PRO:CD    | 2:A:168:RCY:H1V  | 0.86     | 1.99        | 63     | 1     |
| 2:A:173:RCY:H1C  | 2:A:176:RCY:H1S  | 0.86     | 1.45        | 72     | 1     |
| 2:A:173:RCY:C1P  | 2:A:176:RCY:C1Y  | 0.86     | 2.48        | 97     | 2     |
| 2:A:138:RCY:H1VB | 2:A:150:RCY:C1W  | 0.86     | 1.99        | 1      | 1     |
| 2:A:138:RCY:H1CB | 2:A:160:RCY:HIYA | 0.86     | 1.47        | 27     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:160:RCY:C1W  | 0.86     | 2.54        | 29     | 1     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:C1X  | 0.86     | 1.98        | 69     | 3     |
| 2:A:173:RCY:H1YB | 2:A:187:RCY:H1L  | 0.86     | 1.45        | 45     | 1     |
| 1:A:70:TRP:CD1   | 2:A:187:RCY:H1ZB | 0.86     | 2.05        | 76     | 2     |
| 2:A:130:RCY:N1V  | 2:A:160:RCY:O1J  | 0.86     | 2.08        | 64     | 1     |
| 1:A:71:GLU:OE1   | 2:A:176:RCY:H1ZA | 0.86     | 1.69        | 84     | 1     |
| 2:A:138:RCY:C1L  | 2:A:150:RCY:H1C  | 0.86     | 1.99        | 94     | 1     |
| 2:A:168:RCY:H1ZA | 2:A:173:RCY:H1ZA | 0.86     | 0.93        | 31     | 1     |
| 2:A:138:RCY:O1H  | 2:A:138:RCY:C1V  | 0.86     | 2.21        | 94     | 7     |
| 1:A:67:ILE:C     | 2:A:173:RCY:C1Z  | 0.86     | 2.43        | 63     | 1     |
| 1:A:74:ASN:HA    | 2:A:176:RCY:C1U  | 0.86     | 2.01        | 67     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:H1U  | 0.86     | 1.99        | 78     | 1     |
| 1:A:72:ALA:CB    | 2:A:173:RCY:O1H  | 0.86     | 2.22        | 13     | 1     |
| 1:A:70:TRP:HD1   | 2:A:173:RCY:H1C  | 0.86     | 0.77        | 38     | 1     |
| 1:A:71:GLU:CA    | 2:A:176:RCY:C1V  | 0.86     | 2.52        | 49     | 3     |
| 1:A:69:PRO:HG2   | 2:A:187:RCY:H1ZA | 0.86     | 1.46        | 54     | 1     |
| 1:A:68:CYS:C     | 2:A:168:RCY:H1VB | 0.86     | 1.91        | 63     | 1     |
| 2:A:150:RCY:C1M  | 2:A:168:RCY:H1Y  | 0.86     | 1.86        | 74     | 1     |
| 1:A:69:PRO:CD    | 2:A:173:RCY:H1VB | 0.86     | 1.99        | 30     | 2     |
| 2:A:168:RCY:H1ZA | 2:A:176:RCY:C1Z  | 0.86     | 1.97        | 11     | 2     |
| 2:A:138:RCY:C1Z  | 2:A:138:RCY:O1G  | 0.86     | 2.23        | 32     | 1     |
| 1:A:71:GLU:HA    | 2:A:168:RCY:C1Z  | 0.86     | 2.00        | 37     | 1     |
| 1:A:77:GLU:HB2   | 2:A:173:RCY:C1C  | 0.86     | 1.98        | 51     | 1     |
| 2:A:130:RCY:C1C  | 2:A:160:RCY:C1S  | 0.86     | 2.46        | 66     | 1     |
| 2:A:173:RCY:H1C  | 2:A:176:RCY:C1S  | 0.86     | 1.98        | 72     | 1     |
| 2:A:176:RCY:C1U  | 2:A:187:RCY:C1U  | 0.86     | 2.53        | 96     | 1     |
| 1:A:68:CYS:CB    | 2:A:160:RCY:C1W  | 0.86     | 2.54        | 19     | 1     |
| 1:A:70:TRP:CB    | 2:A:168:RCY:H1M  | 0.86     | 2.00        | 28     | 1     |
| 2:A:173:RCY:H1Y  | 2:A:187:RCY:O1G  | 0.86     | 1.69        | 44     | 1     |
| 2:A:173:RCY:C1V  | 2:A:187:RCY:C1X  | 0.86     | 2.31        | 55     | 1     |
| 2:A:173:RCY:O1H  | 2:A:176:RCY:C1Q  | 0.86     | 2.23        | 70     | 1     |
| 1:A:63:ASP:CG    | 2:A:150:RCY:H1Z  | 0.86     | 1.89        | 80     | 1     |
| 1:A:65:THR:HA    | 2:A:168:RCY:H1LA | 0.86     | 1.45        | 82     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:C1Y  | 0.86     | 2.54        | 97     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:70:TRP:H     | 2:A:173:RCY:H1ZA | 0.86     | 0.71        | 5      | 1     |
| 1:A:69:PRO:HG3   | 2:A:168:RCY:C1Y  | 0.86     | 1.98        | 66     | 1     |
| 1:A:71:GLU:O     | 2:A:173:RCY:H1L  | 0.86     | 1.69        | 88     | 1     |
| 2:A:168:RCY:C1C  | 2:A:168:RCY:O1H  | 0.86     | 2.19        | 89     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:N1R  | 0.86     | 1.84        | 3      | 1     |
| 1:A:66:VAL:HG13  | 2:A:121:RCY:C1C  | 0.86     | 2.01        | 4      | 1     |
| 1:A:68:CYS:HA    | 2:A:173:RCY:O1J  | 0.86     | 1.69        | 59     | 2     |
| 1:A:76:CYS:HB3   | 2:A:173:RCY:C1P  | 0.86     | 1.98        | 38     | 1     |
| 1:A:64:ILE:CG1   | 2:A:160:RCY:C1C  | 0.86     | 2.37        | 48     | 1     |
| 2:A:173:RCY:C1S  | 2:A:176:RCY:C1V  | 0.86     | 2.53        | 76     | 1     |
| 1:A:63:ASP:O     | 2:A:150:RCY:H1VB | 0.86     | 1.70        | 85     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:187:RCY:C1V  | 0.86     | 2.48        | 85     | 1     |
| 2:A:150:RCY:H1Z  | 2:A:160:RCY:H1YB | 0.86     | 0.96        | 88     | 1     |
| 2:A:160:RCY:H1YB | 2:A:168:RCY:H1L  | 0.86     | 1.48        | 1      | 2     |
| 2:A:110:RCY:C1X  | 2:A:121:RCY:C1Y  | 0.86     | 2.53        | 5      | 1     |
| 2:A:138:RCY:H1CB | 2:A:150:RCY:C1V  | 0.86     | 2.01        | 54     | 2     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:H1M  | 0.86     | 2.00        | 34     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:187:RCY:H1LA | 0.86     | 2.01        | 36     | 1     |
| 1:A:59:GLY:O     | 2:A:160:RCY:H1S  | 0.86     | 1.69        | 90     | 2     |
| 2:A:138:RCY:C1Z  | 2:A:187:RCY:C1P  | 0.86     | 2.44        | 71     | 1     |
| 2:A:160:RCY:H1ZA | 2:A:173:RCY:H1ZA | 0.85     | 1.46        | 4      | 1     |
| 1:A:60:CYS:CB    | 2:A:160:RCY:H1SA | 0.85     | 2.01        | 25     | 1     |
| 2:A:150:RCY:C1X  | 2:A:173:RCY:H1VA | 0.85     | 2.00        | 31     | 1     |
| 2:A:173:RCY:H1C  | 2:A:176:RCY:H1L  | 0.85     | 1.45        | 36     | 1     |
| 2:A:168:RCY:C1M  | 2:A:176:RCY:H1VA | 0.85     | 2.00        | 40     | 1     |
| 2:A:173:RCY:O1G  | 2:A:176:RCY:C1M  | 0.85     | 2.22        | 41     | 1     |
| 2:A:160:RCY:C1V  | 2:A:176:RCY:C1V  | 0.85     | 2.50        | 57     | 1     |
| 1:A:69:PRO:HG3   | 2:A:187:RCY:H1YA | 0.85     | 1.43        | 72     | 1     |
| 1:A:76:CYS:CB    | 2:A:160:RCY:H1YA | 0.85     | 2.00        | 73     | 1     |
| 1:A:66:VAL:HG13  | 2:A:121:RCY:C1V  | 0.85     | 2.01        | 83     | 1     |
| 2:A:173:RCY:H1MA | 2:A:176:RCY:H1VA | 0.85     | 1.45        | 31     | 2     |
| 1:A:72:ALA:HB3   | 2:A:168:RCY:H1ZB | 0.85     | 1.46        | 22     | 1     |
| 2:A:160:RCY:C1V  | 2:A:168:RCY:C1L  | 0.85     | 2.54        | 24     | 1     |
| 2:A:138:RCY:O1J  | 2:A:150:RCY:C1Z  | 0.85     | 2.20        | 35     | 1     |
| 2:A:138:RCY:O1H  | 2:A:160:RCY:C1C  | 0.85     | 2.24        | 69     | 1     |
| 2:A:138:RCY:H1Y  | 2:A:168:RCY:C1Y  | 0.85     | 2.01        | 7      | 1     |
| 2:A:160:RCY:H1YA | 2:A:187:RCY:H1YB | 0.85     | 1.48        | 27     | 1     |
| 2:A:168:RCY:H1VA | 2:A:173:RCY:H1ZA | 0.85     | 1.48        | 29     | 1     |
| 2:A:160:RCY:H1ZB | 2:A:168:RCY:O1G  | 0.85     | 1.68        | 34     | 1     |
| 2:A:160:RCY:C1V  | 2:A:160:RCY:O1H  | 0.85     | 2.24        | 35     | 2     |
| 1:A:65:THR:HG22  | 2:A:160:RCY:H1M  | 0.85     | 1.47        | 36     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:H1YA | 2:A:176:RCY:H1V  | 0.85     | 0.87        | 94     | 1     |
| 2:A:138:RCY:C1P  | 2:A:150:RCY:O1J  | 0.85     | 2.24        | 81     | 2     |
| 1:A:65:THR:O     | 2:A:176:RCY:C1Y  | 0.85     | 2.25        | 22     | 1     |
| 1:A:71:GLU:HG3   | 2:A:168:RCY:C1S  | 0.85     | 2.00        | 28     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:160:RCY:C1Y  | 0.85     | 2.54        | 29     | 1     |
| 1:A:73:CYS:HB3   | 2:A:176:RCY:C1Z  | 0.85     | 2.01        | 58     | 1     |
| 2:A:138:RCY:H1Y  | 2:A:187:RCY:H1CA | 0.85     | 1.31        | 96     | 2     |
| 1:A:66:VAL:N     | 2:A:150:RCY:C1Y  | 0.85     | 2.39        | 72     | 1     |
| 1:A:73:CYS:N     | 2:A:168:RCY:O1G  | 0.85     | 2.10        | 91     | 1     |
| 1:A:60:CYS:CB    | 2:A:130:RCY:C1Q  | 0.85     | 2.54        | 18     | 1     |
| 2:A:168:RCY:H1VA | 2:A:173:RCY:C1Z  | 0.85     | 2.00        | 29     | 1     |
| 1:A:70:TRP:HZ3   | 2:A:168:RCY:H1VA | 0.85     | 1.32        | 56     | 1     |
| 2:A:176:RCY:O1H  | 2:A:176:RCY:O1J  | 0.85     | 1.94        | 57     | 1     |
| 2:A:138:RCY:H1ZA | 2:A:150:RCY:O1H  | 0.85     | 1.71        | 60     | 1     |
| 2:A:130:RCY:H1CA | 2:A:138:RCY:H1ZB | 0.85     | 1.45        | 67     | 1     |
| 1:A:70:TRP:CE2   | 2:A:176:RCY:C1V  | 0.85     | 2.58        | 82     | 1     |
| 2:A:138:RCY:C1V  | 2:A:187:RCY:C1Y  | 0.85     | 2.53        | 66     | 2     |
| 1:A:71:GLU:O     | 2:A:173:RCY:C1Q  | 0.85     | 2.23        | 29     | 3     |
| 2:A:160:RCY:O1H  | 2:A:168:RCY:C1M  | 0.85     | 2.25        | 39     | 1     |
| 2:A:138:RCY:H1ZB | 2:A:187:RCY:H1ZB | 0.85     | 1.44        | 59     | 1     |
| 2:A:168:RCY:H1MA | 2:A:173:RCY:H1M  | 0.85     | 1.45        | 70     | 1     |
| 1:A:68:CYS:CA    | 2:A:173:RCY:H1MA | 0.85     | 2.02        | 73     | 1     |
| 1:A:67:ILE:HD13  | 2:A:130:RCY:H1YB | 0.85     | 1.47        | 78     | 1     |
| 1:A:59:GLY:O     | 2:A:160:RCY:C1M  | 0.85     | 2.25        | 85     | 1     |
| 2:A:121:RCY:H1ZA | 2:A:168:RCY:C1L  | 0.85     | 2.02        | 94     | 1     |
| 2:A:168:RCY:H1Y  | 2:A:187:RCY:N1V  | 0.85     | 1.86        | 97     | 1     |
| 1:A:70:TRP:CD1   | 2:A:121:RCY:C1W  | 0.85     | 2.44        | 49     | 1     |
| 1:A:70:TRP:HA    | 2:A:168:RCY:H1CA | 0.85     | 0.86        | 57     | 1     |
| 2:A:160:RCY:H1M  | 2:A:176:RCY:C1Y  | 0.85     | 1.92        | 71     | 1     |
| 1:A:70:TRP:CB    | 2:A:176:RCY:O1J  | 0.85     | 2.24        | 76     | 1     |
| 2:A:168:RCY:H1VA | 2:A:173:RCY:O1H  | 0.85     | 1.72        | 76     | 1     |
| 2:A:150:RCY:H1L  | 2:A:160:RCY:H1M  | 0.85     | 1.48        | 85     | 1     |
| 2:A:168:RCY:H1ZB | 2:A:187:RCY:N1R  | 0.85     | 1.85        | 100    | 1     |
| 2:A:150:RCY:H1ZB | 2:A:150:RCY:C1Q  | 0.85     | 2.00        | 96     | 9     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:H1C  | 0.85     | 1.85        | 8      | 1     |
| 2:A:173:RCY:H1MA | 2:A:176:RCY:H1C  | 0.85     | 1.48        | 19     | 1     |
| 1:A:71:GLU:HB2   | 2:A:168:RCY:C1L  | 0.85     | 1.99        | 32     | 4     |
| 2:A:160:RCY:H1U  | 2:A:168:RCY:H1YA | 0.85     | 1.46        | 41     | 1     |
| 1:A:76:CYS:HB2   | 2:A:173:RCY:O1J  | 0.85     | 1.71        | 42     | 1     |
| 2:A:168:RCY:H1MA | 2:A:173:RCY:C1S  | 0.85     | 1.99        | 58     | 1     |
| 1:A:70:TRP:CE3   | 2:A:150:RCY:O1G  | 0.85     | 2.30        | 75     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:64:ILE:HD11  | 2:A:187:RCY:C1P  | 0.85     | 2.01        | 85     | 1     |
| 1:A:70:TRP:HE1   | 2:A:168:RCY:C1L  | 0.85     | 1.84        | 89     | 1     |
| 1:A:63:ASP:HB3   | 2:A:168:RCY:C1X  | 0.85     | 2.02        | 5      | 1     |
| 1:A:72:ALA:CB    | 2:A:173:RCY:C1L  | 0.85     | 2.23        | 10     | 1     |
| 2:A:168:RCY:H1M  | 2:A:173:RCY:H1YA | 0.85     | 1.48        | 14     | 1     |
| 2:A:176:RCY:H1VB | 2:A:187:RCY:C1P  | 0.85     | 2.01        | 15     | 1     |
| 1:A:71:GLU:CG    | 2:A:168:RCY:H1LA | 0.85     | 2.02        | 74     | 2     |
| 2:A:176:RCY:H1V  | 2:A:187:RCY:C1Z  | 0.85     | 2.01        | 34     | 1     |
| 1:A:65:THR:HG21  | 2:A:160:RCY:O1H  | 0.85     | 1.71        | 36     | 1     |
| 2:A:160:RCY:H1CA | 2:A:168:RCY:C1P  | 0.85     | 2.01        | 39     | 1     |
| 2:A:130:RCY:H1YB | 2:A:176:RCY:C1Z  | 0.85     | 2.01        | 41     | 1     |
| 2:A:150:RCY:C1C  | 2:A:187:RCY:C1Y  | 0.85     | 2.52        | 81     | 2     |
| 2:A:173:RCY:C1Q  | 2:A:176:RCY:O1H  | 0.85     | 2.25        | 60     | 1     |
| 1:A:67:ILE:HG21  | 2:A:130:RCY:H1YB | 0.85     | 1.45        | 78     | 1     |
| 1:A:71:GLU:O     | 2:A:173:RCY:N1R  | 0.85     | 2.09        | 94     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:173:RCY:C1Q  | 0.85     | 2.02        | 21     | 8     |
| 2:A:138:RCY:C1L  | 2:A:150:RCY:C1C  | 0.85     | 2.55        | 9      | 2     |
| 2:A:176:RCY:C1W  | 2:A:187:RCY:H1VA | 0.85     | 1.93        | 27     | 2     |
| 1:A:66:VAL:HB    | 2:A:150:RCY:C1M  | 0.85     | 2.02        | 31     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:160:RCY:C1V  | 0.85     | 2.60        | 34     | 1     |
| 2:A:168:RCY:C1U  | 2:A:173:RCY:H1U  | 0.85     | 2.02        | 48     | 2     |
| 2:A:173:RCY:H1ZB | 2:A:176:RCY:H1V  | 0.85     | 1.48        | 37     | 1     |
| 2:A:138:RCY:H1C  | 2:A:150:RCY:C1P  | 0.85     | 2.01        | 53     | 1     |
| 1:A:73:CYS:CB    | 2:A:176:RCY:C1M  | 0.85     | 2.55        | 70     | 1     |
| 2:A:138:RCY:H1Z  | 2:A:187:RCY:H1CA | 0.85     | 0.86        | 74     | 1     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:C1U  | 0.85     | 2.37        | 89     | 1     |
| 2:A:168:RCY:H1YB | 2:A:187:RCY:C1L  | 0.85     | 2.01        | 100    | 1     |
| 2:A:168:RCY:C1W  | 2:A:187:RCY:C1P  | 0.85     | 2.53        | 100    | 1     |
| 2:A:130:RCY:H1ZB | 2:A:130:RCY:C1Q  | 0.84     | 2.01        | 66     | 3     |
| 2:A:173:RCY:H1S  | 2:A:176:RCY:H1L  | 0.84     | 1.48        | 3      | 1     |
| 2:A:168:RCY:C1S  | 2:A:173:RCY:H1V  | 0.84     | 2.01        | 4      | 1     |
| 2:A:130:RCY:C1C  | 2:A:160:RCY:O1J  | 0.84     | 2.18        | 16     | 1     |
| 2:A:138:RCY:C1P  | 2:A:150:RCY:C1Y  | 0.84     | 2.52        | 23     | 1     |
| 1:A:70:TRP:CH2   | 2:A:160:RCY:O1H  | 0.84     | 2.29        | 58     | 2     |
| 2:A:160:RCY:H1M  | 2:A:168:RCY:H1S  | 0.84     | 1.46        | 34     | 1     |
| 1:A:70:TRP:CB    | 2:A:173:RCY:H1M  | 0.84     | 2.01        | 84     | 1     |
| 1:A:71:GLU:OE2   | 2:A:130:RCY:C1M  | 0.84     | 2.25        | 94     | 1     |
| 2:A:173:RCY:N1R  | 2:A:176:RCY:H1VA | 0.84     | 1.86        | 11     | 1     |
| 2:A:130:RCY:C1V  | 2:A:160:RCY:H1M  | 0.84     | 2.01        | 18     | 1     |
| 1:A:64:ILE:CG1   | 2:A:160:RCY:H1YA | 0.84     | 1.94        | 19     | 1     |
| 2:A:138:RCY:H1CB | 2:A:150:RCY:H1ZA | 0.84     | 1.48        | 29     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:160:RCY:H1CA | 2:A:160:RCY:C1P  | 0.84     | 2.01        | 29     | 3     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:H1L  | 0.84     | 1.42        | 35     | 1     |
| 1:A:77:GLU:HG3   | 2:A:176:RCY:H1U  | 0.84     | 1.50        | 39     | 1     |
| 1:A:70:TRP:CD2   | 2:A:121:RCY:C1V  | 0.84     | 2.58        | 49     | 1     |
| 2:A:150:RCY:H1C  | 2:A:187:RCY:C1Y  | 0.84     | 1.97        | 53     | 1     |
| 1:A:78:LEU:HD11  | 2:A:176:RCY:C1S  | 0.84     | 2.01        | 69     | 1     |
| 1:A:75:HIS:CG    | 2:A:176:RCY:H1CA | 0.84     | 2.06        | 84     | 1     |
| 2:A:150:RCY:H1Z  | 2:A:160:RCY:H1YA | 0.84     | 1.43        | 88     | 1     |
| 1:A:73:CYS:CB    | 2:A:168:RCY:C1Z  | 0.84     | 0.85        | 99     | 1     |
| 1:A:61:GLY:O     | 2:A:160:RCY:H1CB | 0.84     | 1.72        | 11     | 1     |
| 2:A:138:RCY:H1L  | 2:A:160:RCY:H1ZA | 0.84     | 1.46        | 18     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:C1C  | 0.84     | 2.22        | 47     | 3     |
| 2:A:110:RCY:H1Z  | 2:A:121:RCY:H1C  | 0.84     | 1.49        | 33     | 1     |
| 1:A:70:TRP:HH2   | 2:A:160:RCY:H1VB | 0.84     | 1.20        | 37     | 1     |
| 2:A:173:RCY:H1U  | 2:A:176:RCY:O1J  | 0.84     | 1.71        | 51     | 1     |
| 2:A:176:RCY:H1Y  | 2:A:187:RCY:O1H  | 0.84     | 1.72        | 76     | 1     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:C1C  | 0.84     | 2.46        | 5      | 1     |
| 2:A:187:RCY:H1ZB | 2:A:187:RCY:O1H  | 0.84     | 1.72        | 23     | 4     |
| 2:A:138:RCY:C1S  | 2:A:160:RCY:C1U  | 0.84     | 2.21        | 27     | 1     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:C1Q  | 0.84     | 2.61        | 33     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:150:RCY:O1J  | 0.84     | 2.30        | 93     | 1     |
| 2:A:160:RCY:H1MA | 2:A:168:RCY:H1ZA | 0.84     | 0.85        | 96     | 1     |
| 2:A:160:RCY:H1CB | 2:A:168:RCY:O1G  | 0.84     | 1.73        | 96     | 1     |
| 2:A:173:RCY:O1G  | 2:A:176:RCY:C1Q  | 0.84     | 2.23        | 96     | 1     |
| 1:A:59:GLY:HA3   | 2:A:160:RCY:C1Z  | 0.84     | 2.02        | 100    | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:C1L  | 0.84     | 2.51        | 35     | 1     |
| 2:A:160:RCY:H1U  | 2:A:168:RCY:C1Y  | 0.84     | 2.01        | 41     | 1     |
| 1:A:70:TRP:O     | 2:A:168:RCY:H1LA | 0.84     | 1.71        | 52     | 1     |
| 1:A:71:GLU:HB2   | 2:A:168:RCY:H1L  | 0.84     | 0.84        | 57     | 2     |
| 2:A:130:RCY:C1M  | 2:A:130:RCY:C1V  | 0.84     | 2.55        | 79     | 1     |
| 1:A:71:GLU:CD    | 2:A:110:RCY:H1CB | 0.84     | 1.91        | 5      | 1     |
| 1:A:69:PRO:HG2   | 2:A:173:RCY:H1Y  | 0.84     | 1.49        | 9      | 1     |
| 1:A:70:TRP:CA    | 2:A:176:RCY:H1C  | 0.84     | 2.01        | 13     | 1     |
| 2:A:173:RCY:C1Q  | 2:A:187:RCY:O1J  | 0.84     | 2.26        | 54     | 1     |
| 1:A:75:HIS:CD2   | 2:A:168:RCY:H1Z  | 0.84     | 2.07        | 73     | 1     |
| 2:A:168:RCY:H1LA | 2:A:173:RCY:H1VA | 0.84     | 1.45        | 80     | 1     |
| 2:A:150:RCY:H1U  | 2:A:176:RCY:O1G  | 0.84     | 1.73        | 82     | 1     |
| 2:A:168:RCY:C1S  | 2:A:173:RCY:H1Y  | 0.84     | 2.03        | 84     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:176:RCY:H1ZB | 0.84     | 2.07        | 85     | 1     |
| 1:A:68:CYS:SG    | 2:A:160:RCY:C1V  | 0.84     | 2.62        | 3      | 1     |
| 2:A:168:RCY:O1J  | 2:A:187:RCY:H1ZB | 0.84     | 1.73        | 17     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:70:TRP:N     | 2:A:168:RCY:C1L  | 0.84     | 2.24        | 28     | 1     |
| 1:A:70:TRP:HB3   | 2:A:121:RCY:H1V  | 0.84     | 0.84        | 30     | 1     |
| 1:A:59:GLY:N     | 2:A:160:RCY:C1Z  | 0.84     | 2.40        | 49     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:176:RCY:H1ZB | 0.84     | 2.01        | 60     | 1     |
| 1:A:69:PRO:HA    | 2:A:173:RCY:C1C  | 0.84     | 2.03        | 66     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:176:RCY:C1Z  | 0.84     | 2.55        | 66     | 1     |
| 1:A:60:CYS:H     | 2:A:160:RCY:H1VB | 0.84     | 0.67        | 83     | 1     |
| 2:A:173:RCY:O1G  | 2:A:187:RCY:N1V  | 0.84     | 2.11        | 89     | 1     |
| 1:A:64:ILE:HG23  | 1:A:65:THR:N     | 0.84     | 1.88        | 49     | 9     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:H1CA | 0.84     | 2.02        | 70     | 2     |
| 2:A:138:RCY:C1C  | 2:A:187:RCY:O1G  | 0.84     | 2.24        | 11     | 1     |
| 1:A:60:CYS:HA    | 2:A:160:RCY:C1Q  | 0.84     | 2.00        | 83     | 3     |
| 2:A:176:RCY:O1H  | 2:A:176:RCY:C1C  | 0.84     | 2.17        | 51     | 3     |
| 1:A:69:PRO:HD3   | 2:A:173:RCY:H1Z  | 0.84     | 1.48        | 31     | 2     |
| 1:A:70:TRP:NE1   | 2:A:160:RCY:H1VB | 0.84     | 1.87        | 34     | 1     |
| 2:A:173:RCY:H1ZA | 2:A:176:RCY:H1M  | 0.84     | 0.90        | 37     | 1     |
| 1:A:72:ALA:C     | 2:A:173:RCY:H1L  | 0.84     | 1.93        | 83     | 1     |
| 1:A:67:ILE:CG1   | 2:A:160:RCY:H1VA | 0.84     | 2.02        | 86     | 1     |
| 1:A:70:TRP:CB    | 2:A:173:RCY:C1Z  | 0.84     | 2.41        | 94     | 1     |
| 2:A:138:RCY:H1C  | 2:A:150:RCY:C1X  | 0.84     | 2.01        | 54     | 2     |
| 2:A:173:RCY:O1G  | 2:A:187:RCY:H1V  | 0.84     | 1.72        | 16     | 1     |
| 1:A:70:TRP:CA    | 2:A:176:RCY:H1ZA | 0.84     | 2.01        | 18     | 1     |
| 2:A:160:RCY:H1VA | 2:A:168:RCY:H1Y  | 0.84     | 0.85        | 32     | 1     |
| 2:A:150:RCY:H1ZA | 2:A:187:RCY:H1LA | 0.84     | 1.49        | 36     | 1     |
| 2:A:173:RCY:H1CA | 2:A:176:RCY:H1M  | 0.84     | 1.48        | 52     | 1     |
| 1:A:72:ALA:O     | 2:A:110:RCY:H1Z  | 0.84     | 1.72        | 70     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:173:RCY:C1C  | 0.84     | 2.55        | 91     | 1     |
| 2:A:173:RCY:H1VA | 2:A:187:RCY:H1U  | 0.84     | 1.49        | 93     | 1     |
| 2:A:130:RCY:H1U  | 2:A:160:RCY:C1W  | 0.84     | 2.03        | 7      | 1     |
| 2:A:168:RCY:H1LA | 2:A:176:RCY:O1J  | 0.84     | 1.71        | 13     | 1     |
| 1:A:64:ILE:HD12  | 2:A:160:RCY:C1Y  | 0.84     | 1.99        | 49     | 2     |
| 1:A:70:TRP:CD1   | 2:A:187:RCY:C1W  | 0.84     | 2.50        | 16     | 1     |
| 2:A:173:RCY:C1L  | 2:A:176:RCY:C1P  | 0.84     | 2.32        | 71     | 2     |
| 2:A:176:RCY:C1U  | 2:A:187:RCY:C1M  | 0.84     | 2.51        | 26     | 2     |
| 1:A:60:CYS:CB    | 2:A:168:RCY:H1CB | 0.84     | 2.03        | 95     | 1     |
| 2:A:121:RCY:H1CB | 2:A:121:RCY:O1H  | 0.83     | 1.63        | 13     | 3     |
| 2:A:150:RCY:H1CB | 2:A:168:RCY:O1J  | 0.83     | 1.73        | 19     | 1     |
| 1:A:67:ILE:CG1   | 2:A:176:RCY:H1MA | 0.83     | 2.00        | 22     | 1     |
| 2:A:168:RCY:N1R  | 2:A:176:RCY:H1Y  | 0.83     | 1.74        | 59     | 1     |
| 2:A:150:RCY:H1ZA | 2:A:160:RCY:H1Y  | 0.83     | 1.50        | 88     | 1     |
| 1:A:70:TRP:CB    | 2:A:173:RCY:H1V  | 0.83     | 1.95        | 26     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:60:CYS:CA    | 2:A:138:RCY:H1VB | 0.83     | 2.03        | 7      | 1     |
| 2:A:130:RCY:H1VA | 2:A:160:RCY:O1H  | 0.83     | 1.73        | 8      | 1     |
| 1:A:71:GLU:CB    | 2:A:173:RCY:C1M  | 0.83     | 2.56        | 11     | 1     |
| 1:A:68:CYS:SG    | 2:A:160:RCY:C1Z  | 0.83     | 2.60        | 19     | 1     |
| 1:A:63:ASP:OD2   | 2:A:121:RCY:H1VA | 0.83     | 1.73        | 42     | 1     |
| 1:A:70:TRP:C     | 2:A:173:RCY:H1ZA | 0.83     | 1.92        | 94     | 1     |
| 1:A:74:ASN:CG    | 2:A:173:RCY:O1G  | 0.83     | 2.17        | 91     | 2     |
| 1:A:70:TRP:HZ2   | 2:A:160:RCY:H1CB | 0.83     | 0.74        | 34     | 1     |
| 2:A:150:RCY:C1M  | 2:A:187:RCY:C1V  | 0.83     | 2.55        | 89     | 2     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:O1H  | 0.83     | 2.26        | 76     | 1     |
| 1:A:68:CYS:C     | 2:A:168:RCY:H1LA | 0.83     | 1.94        | 91     | 1     |
| 1:A:71:GLU:OE2   | 2:A:130:RCY:O1H  | 0.83     | 1.94        | 94     | 1     |
| 2:A:138:RCY:H1VA | 2:A:187:RCY:N1V  | 0.83     | 1.86        | 96     | 1     |
| 1:A:69:PRO:HA    | 2:A:168:RCY:H1MA | 0.83     | 0.85        | 5      | 1     |
| 2:A:160:RCY:C1Z  | 2:A:173:RCY:O1G  | 0.83     | 2.26        | 5      | 2     |
| 1:A:69:PRO:HB2   | 2:A:168:RCY:C1Y  | 0.83     | 2.02        | 22     | 1     |
| 1:A:70:TRP:CE2   | 2:A:160:RCY:C1V  | 0.83     | 2.59        | 34     | 1     |
| 1:A:70:TRP:HE3   | 2:A:168:RCY:H1MA | 0.83     | 1.26        | 44     | 1     |
| 2:A:130:RCY:C1M  | 2:A:160:RCY:H1Y  | 0.83     | 2.03        | 67     | 1     |
| 1:A:74:ASN:N     | 2:A:173:RCY:O1H  | 0.83     | 2.11        | 82     | 2     |
| 1:A:70:TRP:NE1   | 2:A:176:RCY:H1V  | 0.83     | 1.87        | 82     | 1     |
| 1:A:63:ASP:OD2   | 2:A:150:RCY:O1G  | 0.83     | 1.96        | 85     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:176:RCY:H1ZA | 0.83     | 2.06        | 85     | 1     |
| 1:A:71:GLU:OE2   | 2:A:187:RCY:O1H  | 0.83     | 1.94        | 88     | 1     |
| 2:A:160:RCY:H1YA | 2:A:168:RCY:H1S  | 0.83     | 1.16        | 100    | 1     |
| 1:A:72:ALA:HB1   | 2:A:173:RCY:H1L  | 0.83     | 1.49        | 10     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:176:RCY:H1Y  | 0.83     | 0.85        | 41     | 1     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:C1P  | 0.83     | 2.57        | 53     | 2     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:H1V  | 0.83     | 2.08        | 56     | 1     |
| 1:A:73:CYS:HB2   | 2:A:168:RCY:C1V  | 0.83     | 2.03        | 57     | 1     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:C1U  | 0.83     | 2.04        | 69     | 1     |
| 1:A:69:PRO:HB3   | 2:A:150:RCY:H1Z  | 0.83     | 1.49        | 92     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:H1Y  | 0.83     | 2.02        | 97     | 1     |
| 1:A:77:GLU:OE1   | 2:A:121:RCY:C1Y  | 0.83     | 2.24        | 11     | 1     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:C1Q  | 0.83     | 2.50        | 34     | 1     |
| 2:A:160:RCY:H1CA | 2:A:160:RCY:C1Q  | 0.83     | 2.03        | 84     | 2     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:C1L  | 0.83     | 2.56        | 53     | 1     |
| 2:A:168:RCY:H1YB | 2:A:176:RCY:O1J  | 0.83     | 1.72        | 66     | 1     |
| 1:A:73:CYS:CB    | 2:A:176:RCY:H1M  | 0.83     | 2.02        | 70     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:H1VB | 0.83     | 2.04        | 77     | 1     |
| 2:A:138:RCY:H1YB | 2:A:187:RCY:H1YA | 0.83     | 1.40        | 86     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:H1CA | 0.83     | 1.66        | 94     | 1     |
| 1:A:71:GLU:HG3   | 2:A:121:RCY:H1YB | 0.83     | 1.50        | 4      | 1     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:H1ZA | 0.83     | 1.46        | 4      | 1     |
| 1:A:64:ILE:O     | 1:A:65:THR:OG1   | 0.83     | 1.95        | 76     | 11    |
| 2:A:160:RCY:O1J  | 2:A:187:RCY:O1J  | 0.83     | 1.95        | 26     | 1     |
| 1:A:65:THR:CG2   | 2:A:160:RCY:C1C  | 0.83     | 2.56        | 31     | 1     |
| 2:A:173:RCY:C1L  | 2:A:176:RCY:C1Q  | 0.83     | 2.53        | 55     | 1     |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:C1W  | 0.83     | 2.50        | 77     | 1     |
| 1:A:70:TRP:HZ3   | 2:A:160:RCY:C1V  | 0.83     | 1.83        | 91     | 1     |
| 1:A:74:ASN:N     | 2:A:173:RCY:N1V  | 0.83     | 2.23        | 22     | 1     |
| 1:A:66:VAL:O     | 2:A:168:RCY:C1X  | 0.83     | 2.26        | 27     | 2     |
| 1:A:71:GLU:HG2   | 2:A:176:RCY:C1C  | 0.83     | 2.02        | 44     | 1     |
| 1:A:74:ASN:O     | 2:A:176:RCY:H1C  | 0.83     | 1.72        | 62     | 1     |
| 1:A:76:CYS:C     | 2:A:160:RCY:C1V  | 0.83     | 2.35        | 73     | 1     |
| 1:A:67:ILE:CG2   | 2:A:173:RCY:H1M  | 0.83     | 1.84        | 80     | 1     |
| 2:A:168:RCY:C1W  | 2:A:187:RCY:C1L  | 0.83     | 2.57        | 100    | 1     |
| 2:A:176:RCY:C1Z  | 2:A:187:RCY:O1J  | 0.83     | 2.25        | 36     | 2     |
| 1:A:76:CYS:CB    | 2:A:187:RCY:C1V  | 0.83     | 2.53        | 34     | 1     |
| 2:A:176:RCY:H1ZB | 2:A:187:RCY:O1J  | 0.83     | 1.72        | 36     | 1     |
| 2:A:138:RCY:C1Q  | 2:A:150:RCY:N1R  | 0.83     | 2.42        | 41     | 1     |
| 2:A:160:RCY:C1U  | 2:A:168:RCY:C1Y  | 0.83     | 2.57        | 41     | 1     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:C1C  | 0.83     | 2.04        | 49     | 1     |
| 1:A:68:CYS:CB    | 2:A:173:RCY:O1J  | 0.83     | 2.26        | 50     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:H1V  | 0.83     | 2.02        | 70     | 2     |
| 2:A:176:RCY:C1M  | 2:A:187:RCY:H1YB | 0.83     | 1.86        | 5      | 1     |
| 1:A:75:HIS:C     | 2:A:176:RCY:H1S  | 0.83     | 1.95        | 51     | 2     |
| 1:A:70:TRP:HA    | 2:A:168:RCY:C1V  | 0.83     | 2.00        | 22     | 1     |
| 2:A:173:RCY:H1Z  | 2:A:176:RCY:C1V  | 0.83     | 1.62        | 31     | 1     |
| 1:A:71:GLU:CG    | 2:A:168:RCY:C1P  | 0.83     | 2.56        | 32     | 1     |
| 1:A:71:GLU:CB    | 2:A:168:RCY:C1U  | 0.83     | 2.41        | 37     | 1     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:C1Z  | 0.83     | 2.00        | 59     | 1     |
| 2:A:130:RCY:C1C  | 2:A:160:RCY:H1S  | 0.83     | 2.02        | 66     | 1     |
| 2:A:173:RCY:O1J  | 2:A:176:RCY:C1Y  | 0.83     | 2.26        | 82     | 1     |
| 2:A:168:RCY:C1S  | 2:A:173:RCY:C1Y  | 0.83     | 2.57        | 84     | 2     |
| 2:A:173:RCY:H1ZA | 2:A:187:RCY:O1G  | 0.83     | 1.54        | 92     | 1     |
| 1:A:73:CYS:HB2   | 2:A:168:RCY:H1ZB | 0.83     | 0.84        | 99     | 1     |
| 1:A:60:CYS:N     | 2:A:130:RCY:C1M  | 0.82     | 2.42        | 18     | 1     |
| 2:A:150:RCY:H1Z  | 2:A:187:RCY:C1M  | 0.82     | 1.98        | 18     | 2     |
| 2:A:160:RCY:H1V  | 2:A:168:RCY:H1L  | 0.82     | 1.48        | 24     | 1     |
| 2:A:150:RCY:H1V  | 2:A:187:RCY:H1ZA | 0.82     | 1.50        | 41     | 1     |
| 1:A:77:GLU:OE2   | 2:A:176:RCY:H1ZB | 0.82     | 1.74        | 73     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:138:RCY:H1M  | 2:A:150:RCY:C1V  | 0.82     | 1.98        | 75     | 1     |
| 2:A:173:RCY:O1G  | 2:A:176:RCY:H1Y  | 0.82     | 1.74        | 97     | 1     |
| 1:A:70:TRP:CB    | 2:A:173:RCY:H1YB | 0.82     | 2.03        | 85     | 2     |
| 2:A:130:RCY:C1L  | 2:A:130:RCY:H1VB | 0.82     | 2.04        | 7      | 1     |
| 1:A:62:THR:HG21  | 2:A:160:RCY:O1H  | 0.82     | 1.71        | 8      | 1     |
| 2:A:150:RCY:H1CA | 2:A:187:RCY:H1C  | 0.82     | 1.47        | 18     | 1     |
| 1:A:68:CYS:HB3   | 2:A:160:RCY:H1ZA | 0.82     | 1.49        | 19     | 1     |
| 1:A:76:CYS:N     | 2:A:173:RCY:H1CB | 0.82     | 1.86        | 29     | 1     |
| 2:A:176:RCY:C1X  | 2:A:187:RCY:H1U  | 0.82     | 2.03        | 29     | 1     |
| 2:A:176:RCY:H1U  | 2:A:187:RCY:C1C  | 0.82     | 2.04        | 87     | 1     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:H1MA | 0.82     | 2.04        | 96     | 1     |
| 2:A:150:RCY:H1YA | 2:A:173:RCY:C1Q  | 0.82     | 2.03        | 3      | 1     |
| 1:A:67:ILE:CB    | 2:A:150:RCY:H1VB | 0.82     | 2.02        | 31     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:H1U  | 0.82     | 2.04        | 52     | 2     |
| 2:A:150:RCY:H1ZB | 2:A:187:RCY:H1YA | 0.82     | 0.85        | 49     | 1     |
| 1:A:70:TRP:HE3   | 2:A:176:RCY:C1C  | 0.82     | 1.83        | 77     | 1     |
| 2:A:168:RCY:H1YA | 2:A:187:RCY:C1L  | 0.82     | 2.04        | 88     | 1     |
| 1:A:69:PRO:HG3   | 2:A:150:RCY:C1Z  | 0.82     | 2.02        | 92     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:O1G  | 0.82     | 1.61        | 1      | 1     |
| 2:A:138:RCY:C1U  | 2:A:187:RCY:H1CB | 0.82     | 2.00        | 5      | 1     |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:H1Z  | 0.82     | 1.51        | 69     | 2     |
| 2:A:150:RCY:N1V  | 2:A:187:RCY:H1CA | 0.82     | 1.88        | 50     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:C1C  | 0.82     | 2.58        | 55     | 1     |
| 1:A:65:THR:HG21  | 2:A:168:RCY:H1CB | 0.82     | 1.51        | 60     | 1     |
| 2:A:138:RCY:H1U  | 2:A:150:RCY:C1P  | 0.82     | 2.02        | 81     | 2     |
| 2:A:150:RCY:H1VB | 2:A:187:RCY:H1ZA | 0.82     | 0.86        | 64     | 1     |
| 1:A:72:ALA:C     | 2:A:168:RCY:O1G  | 0.82     | 2.18        | 91     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:168:RCY:O1J  | 0.82     | 2.32        | 24     | 1     |
| 1:A:69:PRO:HG3   | 2:A:176:RCY:H1U  | 0.82     | 1.48        | 31     | 1     |
| 2:A:150:RCY:C1X  | 2:A:160:RCY:C1V  | 0.82     | 2.39        | 42     | 1     |
| 1:A:74:ASN:OD1   | 2:A:176:RCY:H1M  | 0.82     | 1.74        | 44     | 1     |
| 1:A:76:CYS:O     | 2:A:176:RCY:C1Q  | 0.82     | 2.27        | 73     | 1     |
| 2:A:150:RCY:H1YB | 2:A:173:RCY:O1J  | 0.82     | 1.72        | 85     | 1     |
| 1:A:69:PRO:HG3   | 2:A:173:RCY:O1H  | 0.82     | 1.74        | 10     | 2     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:H1Z  | 0.82     | 2.01        | 9      | 1     |
| 1:A:70:TRP:CG    | 2:A:176:RCY:C1C  | 0.82     | 2.24        | 62     | 2     |
| 1:A:69:PRO:HB2   | 2:A:187:RCY:H1VB | 0.82     | 1.50        | 14     | 1     |
| 1:A:77:GLU:OE2   | 2:A:173:RCY:C1L  | 0.82     | 2.24        | 33     | 1     |
| 2:A:160:RCY:O1G  | 2:A:160:RCY:H1CA | 0.82     | 1.74        | 58     | 2     |
| 2:A:138:RCY:H1ZB | 2:A:187:RCY:H1C  | 0.82     | 1.49        | 44     | 2     |
| 2:A:173:RCY:H1LA | 2:A:176:RCY:C1Q  | 0.82     | 2.03        | 55     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:130:RCY:H1YB | 2:A:160:RCY:C1M  | 0.82     | 2.02        | 61     | 1     |
| 1:A:71:GLU:C     | 2:A:168:RCY:C1C  | 0.82     | 2.47        | 86     | 1     |
| 2:A:138:RCY:H1YB | 2:A:187:RCY:O1J  | 0.82     | 1.74        | 98     | 1     |
| 1:A:64:ILE:HD13  | 2:A:160:RCY:H1MA | 0.82     | 1.49        | 1      | 1     |
| 2:A:150:RCY:C1Z  | 2:A:176:RCY:C1P  | 0.82     | 2.49        | 3      | 1     |
| 2:A:110:RCY:C1C  | 2:A:121:RCY:H1YA | 0.82     | 2.03        | 5      | 1     |
| 2:A:138:RCY:C1Y  | 2:A:168:RCY:H1Y  | 0.82     | 2.03        | 7      | 1     |
| 2:A:168:RCY:H1Z  | 2:A:187:RCY:H1Z  | 0.82     | 1.51        | 17     | 1     |
| 1:A:76:CYS:HB2   | 2:A:173:RCY:H1CA | 0.82     | 1.28        | 29     | 2     |
| 2:A:150:RCY:H1C  | 2:A:173:RCY:H1VB | 0.82     | 1.50        | 31     | 1     |
| 1:A:66:VAL:O     | 2:A:168:RCY:H1V  | 0.82     | 1.75        | 38     | 2     |
| 1:A:59:GLY:N     | 2:A:160:RCY:H1ZB | 0.82     | 1.88        | 49     | 1     |
| 2:A:130:RCY:H1Z  | 2:A:160:RCY:H1LA | 0.82     | 1.48        | 61     | 1     |
| 1:A:63:ASP:O     | 2:A:160:RCY:H1ZA | 0.82     | 1.73        | 78     | 1     |
| 1:A:70:TRP:NE1   | 2:A:168:RCY:C1Q  | 0.82     | 2.42        | 42     | 1     |
| 2:A:168:RCY:C1X  | 2:A:173:RCY:C1V  | 0.82     | 2.51        | 48     | 1     |
| 1:A:63:ASP:OD2   | 2:A:160:RCY:H1VB | 0.82     | 1.75        | 63     | 1     |
| 2:A:168:RCY:O1H  | 2:A:187:RCY:C1C  | 0.82     | 2.28        | 88     | 1     |
| 2:A:176:RCY:C1X  | 2:A:187:RCY:O1J  | 0.82     | 2.27        | 91     | 1     |
| 2:A:168:RCY:H1CB | 2:A:173:RCY:C1Y  | 0.82     | 2.03        | 85     | 4     |
| 2:A:160:RCY:O1J  | 2:A:173:RCY:H1C  | 0.82     | 1.74        | 20     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:C1L  | 0.82     | 2.57        | 20     | 1     |
| 1:A:66:VAL:O     | 2:A:168:RCY:O1G  | 0.82     | 1.98        | 21     | 1     |
| 1:A:60:CYS:H     | 2:A:160:RCY:C1L  | 0.82     | 1.75        | 28     | 1     |
| 1:A:67:ILE:C     | 2:A:173:RCY:H1ZA | 0.82     | 1.94        | 63     | 1     |
| 1:A:62:THR:HG21  | 2:A:168:RCY:H1ZA | 0.82     | 0.84        | 72     | 1     |
| 1:A:67:ILE:O     | 2:A:168:RCY:C1L  | 0.82     | 2.28        | 75     | 1     |
| 1:A:70:TRP:HD1   | 2:A:187:RCY:H1YB | 0.82     | 1.35        | 92     | 1     |
| 1:A:59:GLY:HA2   | 2:A:160:RCY:H1V  | 0.82     | 1.48        | 2      | 1     |
| 1:A:60:CYS:SG    | 2:A:130:RCY:C1V  | 0.82     | 2.68        | 8      | 1     |
| 2:A:176:RCY:C1W  | 2:A:187:RCY:C1V  | 0.82     | 2.54        | 10     | 1     |
| 2:A:130:RCY:O1J  | 2:A:176:RCY:H1C  | 0.82     | 1.75        | 41     | 1     |
| 1:A:70:TRP:HD1   | 2:A:121:RCY:H1M  | 0.82     | 1.31        | 49     | 1     |
| 1:A:71:GLU:CD    | 2:A:173:RCY:C1Y  | 0.82     | 2.21        | 50     | 1     |
| 2:A:130:RCY:C1S  | 2:A:130:RCY:H1VB | 0.82     | 2.05        | 51     | 1     |
| 1:A:64:ILE:CD1   | 2:A:160:RCY:H1VA | 0.82     | 2.04        | 54     | 1     |
| 1:A:59:GLY:O     | 2:A:160:RCY:H1LA | 0.82     | 1.75        | 100    | 3     |
| 2:A:173:RCY:C1X  | 2:A:176:RCY:C1V  | 0.82     | 2.57        | 63     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:H1MA | 0.82     | 2.04        | 84     | 1     |
| 1:A:66:VAL:O     | 2:A:150:RCY:C1C  | 0.82     | 2.27        | 96     | 1     |
| 2:A:138:RCY:O1G  | 2:A:150:RCY:H1CA | 0.81     | 1.73        | 9      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:67:ILE:HD12  | 2:A:130:RCY:H1YB | 0.81     | 1.50        | 30     | 1     |
| 2:A:150:RCY:C1V  | 2:A:160:RCY:C1X  | 0.81     | 2.51        | 42     | 1     |
| 1:A:70:TRP:CG    | 2:A:168:RCY:O1G  | 0.81     | 2.33        | 45     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:C1L  | 0.81     | 2.55        | 45     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:H1Y  | 0.81     | 2.04        | 78     | 1     |
| 2:A:173:RCY:H1LA | 2:A:176:RCY:H1VB | 0.81     | 0.84        | 11     | 1     |
| 2:A:173:RCY:H1LA | 2:A:176:RCY:C1P  | 0.81     | 2.04        | 20     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:C1Y  | 0.81     | 2.58        | 59     | 4     |
| 1:A:71:GLU:HG3   | 2:A:168:RCY:H1S  | 0.81     | 1.51        | 28     | 1     |
| 2:A:150:RCY:O1J  | 2:A:187:RCY:H1YB | 0.81     | 1.74        | 59     | 1     |
| 1:A:63:ASP:C     | 2:A:160:RCY:H1ZA | 0.81     | 1.95        | 78     | 1     |
| 1:A:74:ASN:CG    | 2:A:176:RCY:C1L  | 0.81     | 2.48        | 78     | 1     |
| 1:A:68:CYS:HB3   | 2:A:176:RCY:H1Y  | 0.81     | 0.83        | 80     | 1     |
| 1:A:62:THR:HG21  | 2:A:160:RCY:C1P  | 0.81     | 2.03        | 82     | 1     |
| 1:A:65:THR:HA    | 2:A:168:RCY:C1P  | 0.81     | 2.05        | 97     | 1     |
| 1:A:62:THR:HG21  | 2:A:130:RCY:C1Y  | 0.81     | 2.04        | 9      | 1     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:C1S  | 0.81     | 2.57        | 54     | 2     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:H1S  | 0.81     | 2.03        | 72     | 2     |
| 2:A:160:RCY:C1X  | 2:A:168:RCY:H1CB | 0.81     | 2.04        | 49     | 1     |
| 2:A:168:RCY:C1P  | 2:A:173:RCY:C1M  | 0.81     | 2.54        | 49     | 1     |
| 1:A:65:THR:HG21  | 2:A:168:RCY:C1C  | 0.81     | 2.06        | 60     | 1     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:C1Q  | 0.81     | 2.06        | 69     | 1     |
| 1:A:68:CYS:SG    | 2:A:176:RCY:C1U  | 0.81     | 2.68        | 77     | 1     |
| 2:A:173:RCY:N1R  | 2:A:173:RCY:H1U  | 0.81     | 1.86        | 79     | 1     |
| 1:A:60:CYS:HA    | 2:A:130:RCY:C1Z  | 0.81     | 2.05        | 88     | 1     |
| 2:A:150:RCY:H1MA | 2:A:187:RCY:H1YB | 0.81     | 1.52        | 88     | 1     |
| 2:A:150:RCY:C1W  | 2:A:173:RCY:O1J  | 0.81     | 2.22        | 3      | 1     |
| 2:A:168:RCY:H1ZB | 2:A:168:RCY:C1Q  | 0.81     | 2.05        | 30     | 7     |
| 2:A:160:RCY:H1Y  | 2:A:173:RCY:C1Y  | 0.81     | 2.05        | 8      | 1     |
| 1:A:65:THR:HG21  | 2:A:130:RCY:H1C  | 0.81     | 1.48        | 9      | 1     |
| 2:A:168:RCY:H1Y  | 2:A:176:RCY:H1L  | 0.81     | 1.48        | 20     | 1     |
| 1:A:59:GLY:O     | 1:A:60:CYS:O     | 0.81     | 1.98        | 91     | 5     |
| 1:A:71:GLU:HA    | 2:A:173:RCY:C1S  | 0.81     | 2.04        | 49     | 1     |
| 1:A:76:CYS:SG    | 2:A:173:RCY:H1L  | 0.81     | 2.15        | 54     | 1     |
| 1:A:71:GLU:CG    | 2:A:173:RCY:O1H  | 0.81     | 2.29        | 89     | 1     |
| 1:A:66:VAL:O     | 2:A:150:RCY:H1C  | 0.81     | 1.76        | 96     | 1     |
| 1:A:73:CYS:HA    | 2:A:168:RCY:H1ZA | 0.81     | 1.52        | 99     | 1     |
| 1:A:65:THR:CG2   | 2:A:160:RCY:C1W  | 0.81     | 2.30        | 100    | 1     |
| 2:A:176:RCY:H1V  | 2:A:187:RCY:C1X  | 0.81     | 1.93        | 33     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:H1VA | 0.81     | 2.09        | 56     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:173:RCY:C1Y  | 0.81     | 2.58        | 8      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:138:RCY:C1C  | 2:A:187:RCY:H1MA | 0.81     | 1.89        | 11     | 1     |
| 1:A:70:TRP:HB2   | 2:A:168:RCY:C1S  | 0.81     | 2.01        | 16     | 2     |
| 1:A:70:TRP:CD1   | 2:A:176:RCY:H1CB | 0.81     | 2.05        | 62     | 1     |
| 2:A:176:RCY:H1C  | 2:A:187:RCY:H1CA | 0.81     | 1.53        | 75     | 1     |
| 2:A:130:RCY:C1W  | 2:A:130:RCY:C1X  | 0.81     | 2.58        | 79     | 1     |
| 1:A:64:ILE:HD11  | 2:A:187:RCY:N1R  | 0.81     | 1.88        | 85     | 1     |
| 1:A:69:PRO:CB    | 2:A:187:RCY:H1C  | 0.81     | 2.05        | 7      | 1     |
| 1:A:61:GLY:C     | 2:A:150:RCY:C1M  | 0.81     | 2.47        | 11     | 1     |
| 1:A:62:THR:CG2   | 2:A:173:RCY:C1V  | 0.81     | 2.15        | 18     | 1     |
| 2:A:160:RCY:C1X  | 2:A:168:RCY:C1V  | 0.81     | 2.59        | 48     | 1     |
| 1:A:67:ILE:HB    | 2:A:173:RCY:H1YB | 0.81     | 1.04        | 80     | 1     |
| 1:A:73:CYS:CB    | 2:A:168:RCY:H1ZB | 0.81     | 0.74        | 99     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:C1Y  | 0.81     | 2.60        | 41     | 3     |
| 1:A:71:GLU:CG    | 2:A:176:RCY:H1CB | 0.81     | 2.03        | 44     | 2     |
| 2:A:138:RCY:C1V  | 2:A:187:RCY:C1M  | 0.81     | 2.51        | 49     | 1     |
| 1:A:69:PRO:HG3   | 2:A:173:RCY:H1ZB | 0.81     | 1.46        | 57     | 1     |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:H1YA | 0.81     | 2.03        | 74     | 1     |
| 1:A:63:ASP:OD1   | 2:A:150:RCY:H1Y  | 0.81     | 1.75        | 80     | 1     |
| 2:A:138:RCY:H1M  | 2:A:150:RCY:C1P  | 0.81     | 1.70        | 1      | 1     |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:H1Y  | 0.81     | 1.49        | 9      | 1     |
| 2:A:160:RCY:O1J  | 2:A:173:RCY:C1C  | 0.81     | 2.29        | 20     | 2     |
| 2:A:150:RCY:C1C  | 2:A:187:RCY:N1V  | 0.81     | 2.43        | 50     | 1     |
| 2:A:138:RCY:H1VA | 2:A:150:RCY:C1C  | 0.81     | 2.05        | 70     | 1     |
| 1:A:67:ILE:HD13  | 2:A:138:RCY:C1P  | 0.81     | 2.04        | 72     | 1     |
| 1:A:70:TRP:HB3   | 2:A:173:RCY:C1W  | 0.81     | 2.05        | 84     | 2     |
| 2:A:168:RCY:H1YA | 2:A:176:RCY:O1J  | 0.81     | 1.75        | 90     | 1     |
| 2:A:168:RCY:H1CB | 2:A:173:RCY:C1M  | 0.81     | 2.01        | 99     | 1     |
| 1:A:72:ALA:N     | 2:A:173:RCY:O1G  | 0.81     | 2.01        | 100    | 1     |
| 2:A:121:RCY:N1R  | 2:A:121:RCY:H1U  | 0.81     | 1.89        | 79     | 2     |
| 2:A:138:RCY:C1W  | 2:A:187:RCY:C1Y  | 0.81     | 2.57        | 68     | 2     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:H1V  | 0.81     | 2.06        | 48     | 2     |
| 1:A:70:TRP:NE1   | 2:A:121:RCY:H1V  | 0.81     | 1.91        | 49     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:C1P  | 0.81     | 2.57        | 60     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:160:RCY:H1V  | 0.81     | 2.05        | 61     | 1     |
| 2:A:160:RCY:H1VA | 2:A:168:RCY:O1J  | 0.81     | 1.75        | 94     | 1     |
| 1:A:69:PRO:C     | 2:A:173:RCY:C1P  | 0.80     | 2.43        | 6      | 1     |
| 1:A:75:HIS:N     | 2:A:176:RCY:H1CB | 0.80     | 1.92        | 20     | 1     |
| 1:A:70:TRP:CH2   | 2:A:138:RCY:C1U  | 0.80     | 2.38        | 27     | 1     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:H1U  | 0.80     | 2.05        | 29     | 2     |
| 2:A:173:RCY:H1VA | 2:A:187:RCY:H1YA | 0.80     | 1.44        | 54     | 1     |
| 1:A:64:ILE:HG21  | 1:A:68:CYS:SG    | 0.80     | 2.16        | 89     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:160:RCY:N1R  | 2:A:168:RCY:O1J  | 0.80     | 2.13        | 9      | 1     |
| 1:A:71:GLU:O     | 2:A:173:RCY:C1V  | 0.80     | 2.28        | 33     | 1     |
| 1:A:65:THR:O     | 2:A:168:RCY:O1H  | 0.80     | 1.98        | 51     | 1     |
| 2:A:130:RCY:H1YA | 2:A:160:RCY:H1YA | 0.80     | 1.54        | 67     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:168:RCY:H1LA | 0.80     | 2.11        | 71     | 1     |
| 1:A:69:PRO:O     | 2:A:173:RCY:C1S  | 0.80     | 2.28        | 82     | 2     |
| 1:A:60:CYS:HB3   | 2:A:168:RCY:H1CB | 0.80     | 1.53        | 95     | 1     |
| 1:A:64:ILE:HD13  | 2:A:168:RCY:H1C  | 0.80     | 1.51        | 4      | 1     |
| 2:A:187:RCY:H1VB | 2:A:187:RCY:C1Q  | 0.80     | 2.06        | 72     | 11    |
| 2:A:173:RCY:H1VB | 2:A:173:RCY:C1Q  | 0.80     | 2.06        | 83     | 6     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:H1Y  | 0.80     | 2.12        | 41     | 1     |
| 1:A:70:TRP:HD1   | 2:A:187:RCY:H1ZB | 0.80     | 1.33        | 51     | 1     |
| 2:A:160:RCY:H1YB | 2:A:168:RCY:C1Y  | 0.80     | 2.06        | 53     | 1     |
| 2:A:138:RCY:H1VA | 2:A:150:RCY:C1V  | 0.80     | 2.04        | 67     | 1     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:H1Z  | 0.80     | 2.07        | 91     | 1     |
| 2:A:168:RCY:H1U  | 2:A:176:RCY:C1Z  | 0.80     | 2.06        | 98     | 1     |
| 2:A:150:RCY:H1YA | 2:A:187:RCY:H1VB | 0.80     | 1.49        | 38     | 1     |
| 2:A:150:RCY:C1W  | 2:A:160:RCY:H1VA | 0.80     | 2.06        | 42     | 1     |
| 1:A:64:ILE:HG23  | 2:A:168:RCY:H1CA | 0.80     | 1.51        | 54     | 1     |
| 2:A:138:RCY:H1M  | 2:A:187:RCY:C1Y  | 0.80     | 1.77        | 68     | 2     |
| 1:A:63:ASP:OD2   | 2:A:160:RCY:H1MA | 0.80     | 1.76        | 73     | 1     |
| 1:A:67:ILE:HG13  | 2:A:168:RCY:C1Y  | 0.80     | 2.06        | 80     | 1     |
| 2:A:110:RCY:O1G  | 2:A:110:RCY:H1CB | 0.80     | 1.77        | 27     | 5     |
| 2:A:168:RCY:H1U  | 2:A:173:RCY:C1C  | 0.80     | 2.05        | 20     | 1     |
| 2:A:150:RCY:H1C  | 2:A:173:RCY:C1V  | 0.80     | 2.06        | 31     | 1     |
| 1:A:71:GLU:HG2   | 2:A:173:RCY:H1VA | 0.80     | 1.50        | 41     | 1     |
| 2:A:130:RCY:H1YB | 2:A:176:RCY:H1ZB | 0.80     | 1.53        | 41     | 1     |
| 2:A:150:RCY:N1V  | 2:A:187:RCY:H1MA | 0.80     | 1.92        | 59     | 1     |
| 1:A:59:GLY:N     | 2:A:138:RCY:H1MA | 0.80     | 1.90        | 64     | 1     |
| 1:A:67:ILE:HG21  | 2:A:173:RCY:H1ZA | 0.80     | 1.53        | 80     | 1     |
| 2:A:173:RCY:H1YA | 2:A:187:RCY:C1P  | 0.80     | 2.01        | 93     | 1     |
| 1:A:68:CYS:O     | 2:A:173:RCY:O1G  | 0.80     | 1.99        | 4      | 2     |
| 1:A:78:LEU:HD22  | 1:A:78:LEU:O     | 0.80     | 1.77        | 51     | 3     |
| 1:A:62:THR:HG22  | 2:A:173:RCY:H1VA | 0.80     | 1.48        | 18     | 1     |
| 2:A:130:RCY:H1ZB | 2:A:130:RCY:C1P  | 0.80     | 2.07        | 38     | 6     |
| 2:A:168:RCY:C1Q  | 2:A:168:RCY:H1VB | 0.80     | 2.07        | 20     | 4     |
| 2:A:168:RCY:H1YB | 2:A:173:RCY:H1Z  | 0.80     | 1.53        | 20     | 2     |
| 1:A:70:TRP:CA    | 2:A:173:RCY:C1V  | 0.80     | 2.59        | 26     | 1     |
| 2:A:168:RCY:C1U  | 2:A:173:RCY:C1Y  | 0.80     | 2.60        | 31     | 1     |
| 1:A:77:GLU:HG3   | 2:A:176:RCY:C1U  | 0.80     | 2.01        | 39     | 1     |
| 2:A:168:RCY:C1C  | 2:A:173:RCY:H1MA | 0.80     | 2.05        | 99     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:150:RCY:H1Z  | 2:A:176:RCY:N1R  | 0.80     | 1.91        | 3      | 1     |
| 1:A:70:TRP:CE2   | 2:A:176:RCY:H1V  | 0.80     | 2.04        | 4      | 1     |
| 2:A:110:RCY:N1V  | 2:A:121:RCY:C1V  | 0.80     | 2.42        | 5      | 1     |
| 2:A:130:RCY:C1V  | 2:A:130:RCY:O1H  | 0.80     | 2.21        | 45     | 4     |
| 2:A:168:RCY:O1G  | 2:A:168:RCY:H1CB | 0.80     | 1.77        | 45     | 9     |
| 2:A:176:RCY:C1M  | 2:A:187:RCY:C1V  | 0.80     | 2.60        | 10     | 1     |
| 1:A:75:HIS:CB    | 2:A:176:RCY:C1L  | 0.80     | 2.57        | 13     | 1     |
| 2:A:187:RCY:H1ZB | 2:A:187:RCY:C1P  | 0.80     | 2.06        | 50     | 5     |
| 1:A:70:TRP:CE2   | 2:A:168:RCY:H1YA | 0.80     | 2.12        | 37     | 1     |
| 1:A:70:TRP:NE1   | 2:A:168:RCY:H1S  | 0.80     | 1.89        | 42     | 1     |
| 2:A:168:RCY:C1C  | 2:A:176:RCY:N1V  | 0.80     | 2.45        | 59     | 2     |
| 1:A:70:TRP:CD1   | 2:A:187:RCY:C1Y  | 0.80     | 2.50        | 92     | 1     |
| 2:A:130:RCY:H1VB | 2:A:130:RCY:C1Q  | 0.80     | 2.07        | 72     | 11    |
| 2:A:160:RCY:N1V  | 2:A:168:RCY:C1Z  | 0.80     | 2.36        | 5      | 1     |
| 1:A:65:THR:O     | 1:A:66:VAL:HG13  | 0.80     | 1.77        | 32     | 5     |
| 1:A:62:THR:HG1   | 2:A:150:RCY:H1CB | 0.80     | 1.35        | 11     | 1     |
| 1:A:64:ILE:HD13  | 1:A:65:THR:N     | 0.80     | 1.91        | 17     | 1     |
| 2:A:176:RCY:H1YA | 2:A:187:RCY:H1C  | 0.80     | 1.49        | 27     | 2     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:C1L  | 0.80     | 2.56        | 58     | 2     |
| 2:A:138:RCY:H1CA | 2:A:150:RCY:N1V  | 0.80     | 1.92        | 59     | 1     |
| 1:A:73:CYS:HB2   | 2:A:176:RCY:C1U  | 0.80     | 2.07        | 70     | 1     |
| 1:A:63:ASP:OD2   | 2:A:160:RCY:H1ZB | 0.80     | 1.77        | 73     | 1     |
| 2:A:130:RCY:H1Y  | 2:A:130:RCY:H1Z  | 0.80     | 1.54        | 79     | 1     |
| 1:A:64:ILE:HG13  | 2:A:168:RCY:C1Z  | 0.80     | 2.04        | 78     | 2     |
| 2:A:138:RCY:O1H  | 2:A:138:RCY:H1CA | 0.80     | 1.77        | 93     | 2     |
| 1:A:69:PRO:HD2   | 2:A:168:RCY:C1P  | 0.80     | 2.07        | 78     | 3     |
| 2:A:168:RCY:H1MA | 2:A:173:RCY:N1V  | 0.80     | 1.92        | 14     | 1     |
| 1:A:73:CYS:O     | 2:A:176:RCY:O1H  | 0.80     | 2.00        | 20     | 1     |
| 2:A:173:RCY:H1Z  | 2:A:176:RCY:H1YB | 0.80     | 1.54        | 37     | 1     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:C1P  | 0.80     | 2.57        | 75     | 1     |
| 1:A:59:GLY:O     | 2:A:160:RCY:H1M  | 0.80     | 1.75        | 85     | 1     |
| 1:A:70:TRP:HB2   | 2:A:176:RCY:C1M  | 0.80     | 2.07        | 6      | 1     |
| 2:A:138:RCY:H1VB | 2:A:187:RCY:H1YB | 0.80     | 1.54        | 11     | 1     |
| 2:A:138:RCY:H1Z  | 2:A:150:RCY:H1ZA | 0.80     | 1.50        | 30     | 1     |
| 2:A:150:RCY:C1C  | 2:A:187:RCY:C1C  | 0.80     | 2.55        | 50     | 1     |
| 1:A:66:VAL:C     | 2:A:168:RCY:H1CB | 0.80     | 1.95        | 58     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:173:RCY:H1CA | 0.80     | 2.00        | 86     | 1     |
| 1:A:74:ASN:O     | 2:A:173:RCY:C1S  | 0.80     | 2.30        | 90     | 1     |
| 1:A:70:TRP:C     | 2:A:173:RCY:C1Z  | 0.80     | 2.50        | 94     | 1     |
| 2:A:176:RCY:H1VB | 2:A:176:RCY:C1Q  | 0.79     | 2.06        | 45     | 11    |
| 1:A:71:GLU:CG    | 2:A:121:RCY:H1YB | 0.79     | 2.07        | 4      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:160:RCY:H1VB | 2:A:160:RCY:C1Q  | 0.79     | 2.06        | 98     | 13    |
| 2:A:130:RCY:C1Y  | 2:A:173:RCY:H1S  | 0.79     | 2.05        | 15     | 1     |
| 1:A:64:ILE:CG1   | 2:A:168:RCY:H1VB | 0.79     | 2.07        | 27     | 1     |
| 1:A:65:THR:CG2   | 2:A:160:RCY:O1H  | 0.79     | 2.29        | 36     | 1     |
| 1:A:69:PRO:HD3   | 2:A:168:RCY:H1V  | 0.79     | 1.53        | 63     | 1     |
| 2:A:173:RCY:H1CB | 2:A:176:RCY:C1Z  | 0.79     | 2.07        | 84     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:150:RCY:C1L  | 0.79     | 2.40        | 1      | 1     |
| 1:A:70:TRP:CZ2   | 2:A:176:RCY:H1M  | 0.79     | 2.04        | 4      | 1     |
| 2:A:138:RCY:O1G  | 2:A:138:RCY:H1CB | 0.79     | 1.77        | 61     | 15    |
| 2:A:160:RCY:O1G  | 2:A:160:RCY:H1CB | 0.79     | 1.78        | 20     | 8     |
| 1:A:75:HIS:CE1   | 2:A:176:RCY:C1L  | 0.79     | 2.65        | 24     | 1     |
| 1:A:76:CYS:HB2   | 2:A:187:RCY:H1VB | 0.79     | 1.51        | 34     | 1     |
| 2:A:173:RCY:H1MA | 2:A:187:RCY:H1MA | 0.79     | 1.52        | 40     | 1     |
| 1:A:74:ASN:OD1   | 2:A:176:RCY:C1M  | 0.79     | 2.30        | 44     | 1     |
| 2:A:121:RCY:H1ZB | 2:A:121:RCY:C1P  | 0.79     | 2.08        | 48     | 4     |
| 2:A:130:RCY:H1C  | 2:A:160:RCY:H1S  | 0.79     | 1.54        | 66     | 1     |
| 1:A:72:ALA:N     | 2:A:168:RCY:C1M  | 0.79     | 2.33        | 91     | 1     |
| 1:A:72:ALA:HA    | 2:A:168:RCY:O1G  | 0.79     | 1.75        | 91     | 1     |
| 1:A:71:GLU:CB    | 2:A:168:RCY:C1P  | 0.79     | 2.54        | 57     | 2     |
| 1:A:60:CYS:C     | 2:A:160:RCY:H1LA | 0.79     | 1.98        | 99     | 3     |
| 2:A:173:RCY:H1M  | 2:A:176:RCY:C1C  | 0.79     | 2.03        | 38     | 1     |
| 1:A:69:PRO:CA    | 2:A:173:RCY:H1ZB | 0.79     | 2.05        | 75     | 1     |
| 1:A:67:ILE:HG13  | 2:A:168:RCY:H1Y  | 0.79     | 1.54        | 80     | 1     |
| 2:A:138:RCY:H1YA | 2:A:150:RCY:C1P  | 0.79     | 1.85        | 80     | 1     |
| 1:A:70:TRP:CB    | 2:A:173:RCY:C1M  | 0.79     | 2.57        | 84     | 1     |
| 1:A:71:GLU:CG    | 2:A:168:RCY:C1U  | 0.79     | 2.61        | 93     | 1     |
| 1:A:63:ASP:HA    | 2:A:160:RCY:C1Z  | 0.79     | 2.06        | 14     | 1     |
| 1:A:75:HIS:ND1   | 2:A:176:RCY:H1L  | 0.79     | 1.92        | 24     | 1     |
| 2:A:168:RCY:H1ZB | 2:A:168:RCY:C1P  | 0.79     | 2.05        | 72     | 6     |
| 1:A:66:VAL:C     | 2:A:168:RCY:C1C  | 0.79     | 2.50        | 58     | 1     |
| 1:A:73:CYS:HB2   | 2:A:176:RCY:H1ZA | 0.79     | 0.80        | 58     | 1     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:C1W  | 0.79     | 2.59        | 59     | 1     |
| 1:A:63:ASP:HB3   | 2:A:160:RCY:H1C  | 0.79     | 1.32        | 63     | 1     |
| 1:A:73:CYS:HB2   | 2:A:176:RCY:H1LA | 0.79     | 1.53        | 63     | 1     |
| 1:A:78:LEU:HD21  | 2:A:176:RCY:C1Z  | 0.79     | 2.06        | 91     | 1     |
| 1:A:71:GLU:HG2   | 2:A:187:RCY:O1G  | 0.79     | 1.77        | 92     | 1     |
| 2:A:150:RCY:H1VB | 2:A:150:RCY:C1Q  | 0.79     | 2.06        | 1      | 14    |
| 2:A:160:RCY:H1CB | 2:A:160:RCY:O1G  | 0.79     | 1.78        | 15     | 6     |
| 1:A:63:ASP:HB3   | 2:A:160:RCY:C1V  | 0.79     | 2.07        | 5      | 1     |
| 2:A:176:RCY:H1ZA | 2:A:187:RCY:C1X  | 0.79     | 2.02        | 10     | 1     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:H1S  | 0.79     | 1.91        | 12     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:110:RCY:H1VB | 2:A:110:RCY:C1Q  | 0.79     | 2.07        | 80     | 10    |
| 1:A:69:PRO:CA    | 2:A:168:RCY:H1M  | 0.79     | 1.83        | 5      | 1     |
| 2:A:176:RCY:H1ZB | 2:A:176:RCY:C1P  | 0.79     | 2.08        | 61     | 4     |
| 2:A:150:RCY:H1CB | 2:A:150:RCY:O1G  | 0.79     | 1.78        | 44     | 6     |
| 2:A:173:RCY:O1G  | 2:A:187:RCY:H1VB | 0.79     | 1.74        | 16     | 1     |
| 1:A:70:TRP:CH2   | 2:A:138:RCY:H1U  | 0.79     | 2.12        | 27     | 1     |
| 2:A:138:RCY:H1YB | 2:A:187:RCY:H1YB | 0.79     | 1.53        | 32     | 1     |
| 1:A:78:LEU:HD22  | 2:A:138:RCY:C1V  | 0.79     | 2.07        | 40     | 1     |
| 1:A:67:ILE:CG1   | 2:A:176:RCY:H1C  | 0.79     | 2.07        | 53     | 1     |
| 1:A:63:ASP:CB    | 2:A:138:RCY:H1Z  | 0.79     | 2.02        | 73     | 1     |
| 2:A:168:RCY:H1VB | 2:A:168:RCY:C1Q  | 0.79     | 2.07        | 42     | 13    |
| 1:A:69:PRO:HG3   | 2:A:168:RCY:H1CB | 0.79     | 1.34        | 8      | 1     |
| 1:A:74:ASN:O     | 2:A:176:RCY:C1X  | 0.79     | 2.31        | 62     | 1     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:H1C  | 0.79     | 1.52        | 67     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:187:RCY:H1Z  | 0.79     | 2.12        | 76     | 1     |
| 1:A:65:THR:HG21  | 2:A:168:RCY:O1G  | 0.79     | 1.75        | 80     | 1     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:N1V  | 0.79     | 2.45        | 59     | 2     |
| 2:A:176:RCY:O1G  | 2:A:176:RCY:H1CB | 0.79     | 1.78        | 13     | 6     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:N1R  | 0.79     | 2.35        | 58     | 2     |
| 2:A:110:RCY:C1Q  | 2:A:110:RCY:H1VB | 0.79     | 2.07        | 53     | 1     |
| 1:A:67:ILE:O     | 2:A:168:RCY:H1S  | 0.79     | 1.77        | 55     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:187:RCY:H1ZB | 0.79     | 2.04        | 59     | 1     |
| 2:A:138:RCY:H1C  | 2:A:150:RCY:C1C  | 0.79     | 2.07        | 66     | 1     |
| 2:A:176:RCY:H1YB | 2:A:187:RCY:H1YA | 0.79     | 0.85        | 72     | 1     |
| 2:A:160:RCY:N1V  | 2:A:168:RCY:H1Y  | 0.79     | 1.92        | 78     | 1     |
| 1:A:68:CYS:CB    | 2:A:176:RCY:N1V  | 0.79     | 2.43        | 80     | 1     |
| 2:A:138:RCY:H1YB | 2:A:187:RCY:O1G  | 0.79     | 1.74        | 89     | 2     |
| 2:A:138:RCY:C1W  | 2:A:150:RCY:C1L  | 0.79     | 2.61        | 1      | 1     |
| 2:A:173:RCY:H1CB | 2:A:173:RCY:O1G  | 0.79     | 1.77        | 32     | 3     |
| 1:A:70:TRP:HB2   | 2:A:168:RCY:O1G  | 0.79     | 1.77        | 3      | 3     |
| 2:A:160:RCY:H1Y  | 2:A:168:RCY:C1L  | 0.79     | 2.07        | 3      | 2     |
| 1:A:64:ILE:CG1   | 2:A:168:RCY:C1L  | 0.79     | 2.16        | 96     | 3     |
| 1:A:67:ILE:O     | 2:A:173:RCY:O1J  | 0.79     | 2.00        | 31     | 2     |
| 2:A:150:RCY:H1V  | 2:A:160:RCY:H1ZA | 0.79     | 1.53        | 29     | 1     |
| 1:A:70:TRP:HE1   | 2:A:168:RCY:H1YA | 0.79     | 1.00        | 37     | 1     |
| 1:A:71:GLU:OE1   | 2:A:168:RCY:H1CB | 0.79     | 1.77        | 38     | 2     |
| 1:A:73:CYS:HA    | 2:A:168:RCY:O1J  | 0.79     | 1.77        | 91     | 1     |
| 1:A:64:ILE:HB    | 2:A:168:RCY:C1Q  | 0.79     | 2.06        | 95     | 1     |
| 1:A:76:CYS:CA    | 2:A:176:RCY:C1Q  | 0.79     | 2.53        | 10     | 3     |
| 2:A:121:RCY:H1VB | 2:A:121:RCY:C1Q  | 0.79     | 2.08        | 27     | 7     |
| 2:A:138:RCY:C1V  | 2:A:187:RCY:N1R  | 0.79     | 2.44        | 21     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:65:THR:HG23  | 2:A:168:RCY:O1J  | 0.79     | 1.77        | 24     | 1     |
| 2:A:160:RCY:C1P  | 2:A:168:RCY:H1C  | 0.79     | 2.06        | 64     | 2     |
| 1:A:70:TRP:CZ3   | 2:A:176:RCY:H1M  | 0.79     | 2.12        | 80     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:173:RCY:H1CA | 0.79     | 1.91        | 91     | 1     |
| 2:A:173:RCY:H1V  | 2:A:187:RCY:O1G  | 0.79     | 1.78        | 93     | 1     |
| 2:A:168:RCY:H1C  | 2:A:176:RCY:H1ZB | 0.78     | 1.53        | 3      | 1     |
| 2:A:160:RCY:C1W  | 2:A:173:RCY:H1Z  | 0.78     | 2.07        | 4      | 1     |
| 1:A:70:TRP:HB2   | 2:A:168:RCY:H1L  | 0.78     | 1.52        | 94     | 3     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:C1P  | 0.78     | 2.07        | 69     | 3     |
| 1:A:71:GLU:O     | 2:A:173:RCY:O1H  | 0.78     | 2.01        | 56     | 5     |
| 1:A:74:ASN:O     | 2:A:187:RCY:H1MA | 0.78     | 1.78        | 34     | 1     |
| 2:A:173:RCY:N1V  | 2:A:176:RCY:C1C  | 0.78     | 2.46        | 38     | 1     |
| 2:A:150:RCY:H1VA | 2:A:173:RCY:C1Y  | 0.78     | 2.08        | 39     | 2     |
| 2:A:168:RCY:C1V  | 2:A:173:RCY:C1X  | 0.78     | 2.42        | 45     | 1     |
| 1:A:64:ILE:CD1   | 2:A:160:RCY:H1YB | 0.78     | 2.07        | 74     | 1     |
| 1:A:60:CYS:HA    | 2:A:130:RCY:H1ZA | 0.78     | 1.52        | 88     | 1     |
| 1:A:72:ALA:HB3   | 2:A:173:RCY:C1Q  | 0.78     | 1.77        | 78     | 3     |
| 2:A:138:RCY:O1H  | 2:A:150:RCY:C1S  | 0.78     | 2.32        | 41     | 1     |
| 2:A:138:RCY:C1U  | 2:A:150:RCY:H1M  | 0.78     | 2.06        | 75     | 1     |
| 2:A:130:RCY:O1H  | 2:A:130:RCY:O1J  | 0.78     | 2.01        | 2      | 1     |
| 1:A:70:TRP:CB    | 2:A:176:RCY:C1M  | 0.78     | 2.61        | 6      | 1     |
| 2:A:160:RCY:H1Y  | 2:A:173:RCY:H1Y  | 0.78     | 1.56        | 8      | 1     |
| 2:A:173:RCY:C1Q  | 2:A:173:RCY:H1VB | 0.78     | 2.08        | 10     | 1     |
| 2:A:138:RCY:C1S  | 2:A:138:RCY:H1CA | 0.78     | 2.06        | 50     | 1     |
| 1:A:64:ILE:CD1   | 2:A:121:RCY:C1P  | 0.78     | 2.60        | 68     | 1     |
| 1:A:69:PRO:CA    | 2:A:176:RCY:C1V  | 0.78     | 2.54        | 72     | 1     |
| 1:A:65:THR:HA    | 2:A:168:RCY:C1L  | 0.78     | 2.07        | 82     | 2     |
| 1:A:60:CYS:CA    | 2:A:160:RCY:C1L  | 0.78     | 2.14        | 99     | 2     |
| 2:A:160:RCY:H1M  | 2:A:168:RCY:C1C  | 0.78     | 2.09        | 5      | 1     |
| 2:A:168:RCY:C1P  | 2:A:173:RCY:C1Y  | 0.78     | 2.39        | 62     | 2     |
| 2:A:150:RCY:C1Y  | 2:A:160:RCY:H1Y  | 0.78     | 2.09        | 29     | 1     |
| 2:A:150:RCY:H1V  | 2:A:187:RCY:H1VB | 0.78     | 1.55        | 38     | 1     |
| 2:A:168:RCY:O1J  | 2:A:173:RCY:H1VA | 0.78     | 1.77        | 48     | 1     |
| 2:A:173:RCY:C1S  | 2:A:176:RCY:C1C  | 0.78     | 2.60        | 52     | 1     |
| 2:A:173:RCY:N1R  | 2:A:176:RCY:C1Y  | 0.78     | 2.39        | 56     | 2     |
| 1:A:71:GLU:HG2   | 2:A:150:RCY:C1U  | 0.78     | 1.92        | 58     | 1     |
| 2:A:173:RCY:C1Q  | 2:A:176:RCY:H1YA | 0.78     | 2.06        | 68     | 1     |
| 1:A:66:VAL:HG23  | 2:A:168:RCY:C1V  | 0.78     | 2.04        | 80     | 1     |
| 2:A:160:RCY:N1V  | 2:A:168:RCY:O1J  | 0.78     | 2.14        | 94     | 1     |
| 1:A:76:CYS:N     | 2:A:176:RCY:C1S  | 0.78     | 2.47        | 13     | 5     |
| 2:A:187:RCY:O1G  | 2:A:187:RCY:H1CB | 0.78     | 1.78        | 74     | 6     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:67:ILE:CG1   | 2:A:168:RCY:H1CB | 0.78     | 2.09        | 27     | 1     |
| 2:A:121:RCY:O1H  | 2:A:121:RCY:H1CB | 0.78     | 1.77        | 30     | 2     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:O1J  | 0.78     | 2.00        | 32     | 1     |
| 2:A:138:RCY:H1YB | 2:A:187:RCY:C1V  | 0.78     | 2.09        | 84     | 1     |
| 1:A:71:GLU:OE2   | 2:A:110:RCY:C1C  | 0.78     | 2.32        | 5      | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:H1YB | 0.78     | 1.78        | 21     | 1     |
| 1:A:70:TRP:CH2   | 2:A:160:RCY:C1U  | 0.78     | 2.67        | 34     | 1     |
| 1:A:66:VAL:C     | 2:A:168:RCY:C1Q  | 0.78     | 2.52        | 51     | 1     |
| 2:A:173:RCY:H1ZA | 2:A:176:RCY:C1Y  | 0.78     | 1.33        | 81     | 2     |
| 1:A:66:VAL:CA    | 2:A:121:RCY:H1YA | 0.78     | 2.06        | 83     | 1     |
| 1:A:65:THR:HG1   | 2:A:160:RCY:H1ZA | 0.78     | 1.34        | 100    | 1     |
| 1:A:73:CYS:O     | 2:A:173:RCY:H1LA | 0.78     | 1.76        | 100    | 1     |
| 2:A:168:RCY:C1Y  | 2:A:187:RCY:C1L  | 0.78     | 2.62        | 100    | 3     |
| 1:A:67:ILE:O     | 1:A:67:ILE:HG23  | 0.78     | 1.79        | 23     | 2     |
| 2:A:160:RCY:O1G  | 2:A:160:RCY:C1C  | 0.78     | 2.24        | 29     | 2     |
| 2:A:130:RCY:H1YA | 2:A:160:RCY:C1Y  | 0.78     | 2.07        | 67     | 2     |
| 2:A:160:RCY:H1VB | 2:A:160:RCY:C1P  | 0.78     | 2.08        | 81     | 8     |
| 2:A:176:RCY:H1MA | 2:A:187:RCY:H1V  | 0.78     | 1.54        | 10     | 1     |
| 2:A:121:RCY:O1G  | 2:A:121:RCY:H1CB | 0.78     | 1.79        | 24     | 8     |
| 1:A:68:CYS:HA    | 2:A:168:RCY:H1L  | 0.78     | 0.79        | 75     | 2     |
| 1:A:69:PRO:HD2   | 2:A:160:RCY:H1CA | 0.78     | 1.55        | 65     | 1     |
| 1:A:69:PRO:HA    | 2:A:173:RCY:H1VB | 0.78     | 1.55        | 100    | 1     |
| 1:A:71:GLU:OE2   | 2:A:110:RCY:C1V  | 0.78     | 2.31        | 5      | 1     |
| 1:A:69:PRO:CG    | 2:A:168:RCY:C1L  | 0.78     | 2.61        | 7      | 1     |
| 2:A:173:RCY:C1L  | 2:A:176:RCY:H1V  | 0.78     | 2.07        | 20     | 2     |
| 1:A:60:CYS:O     | 2:A:121:RCY:C1Y  | 0.78     | 2.32        | 9      | 1     |
| 1:A:60:CYS:O     | 2:A:121:RCY:H1YA | 0.78     | 1.78        | 9      | 1     |
| 1:A:62:THR:HG21  | 2:A:130:RCY:C1W  | 0.78     | 2.09        | 9      | 1     |
| 2:A:130:RCY:C1V  | 2:A:173:RCY:H1YA | 0.78     | 2.07        | 18     | 2     |
| 1:A:71:GLU:O     | 2:A:173:RCY:H1MA | 0.78     | 1.79        | 21     | 1     |
| 2:A:138:RCY:H1CA | 2:A:160:RCY:C1Y  | 0.78     | 2.08        | 26     | 1     |
| 2:A:187:RCY:H1VB | 2:A:187:RCY:C1P  | 0.78     | 2.08        | 85     | 7     |
| 2:A:160:RCY:C1V  | 2:A:168:RCY:H1Y  | 0.78     | 1.81        | 32     | 1     |
| 1:A:75:HIS:O     | 2:A:187:RCY:C1P  | 0.78     | 2.32        | 34     | 1     |
| 2:A:150:RCY:H1CA | 2:A:187:RCY:C1X  | 0.78     | 2.06        | 50     | 1     |
| 2:A:130:RCY:C1S  | 2:A:130:RCY:C1V  | 0.78     | 2.62        | 51     | 1     |
| 1:A:60:CYS:HB3   | 2:A:168:RCY:C1Y  | 0.78     | 2.09        | 52     | 1     |
| 2:A:138:RCY:C1U  | 2:A:150:RCY:C1Y  | 0.78     | 2.61        | 88     | 1     |
| 2:A:138:RCY:C1W  | 2:A:150:RCY:H1LA | 0.78     | 2.09        | 1      | 1     |
| 2:A:173:RCY:C1X  | 2:A:176:RCY:C1Y  | 0.78     | 2.53        | 2      | 1     |
| 1:A:64:ILE:HG22  | 1:A:65:THR:N     | 0.78     | 1.92        | 38     | 4     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:138:RCY:H1S  | 2:A:160:RCY:H1U  | 0.78     | 0.81        | 27     | 1     |
| 2:A:173:RCY:H1VB | 2:A:187:RCY:C1Z  | 0.78     | 1.93        | 53     | 1     |
| 2:A:168:RCY:H1M  | 2:A:176:RCY:H1Z  | 0.78     | 1.56        | 66     | 1     |
| 1:A:59:GLY:N     | 2:A:160:RCY:N1R  | 0.78     | 2.31        | 85     | 1     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:H1LA | 0.78     | 2.05        | 92     | 1     |
| 2:A:173:RCY:N1R  | 2:A:176:RCY:O1H  | 0.78     | 2.16        | 96     | 1     |
| 2:A:168:RCY:C1V  | 2:A:176:RCY:H1YB | 0.78     | 2.00        | 98     | 1     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:H1V  | 0.77     | 1.55        | 1      | 1     |
| 2:A:110:RCY:H1VB | 2:A:110:RCY:C1P  | 0.77     | 2.08        | 3      | 6     |
| 2:A:121:RCY:H1VB | 2:A:121:RCY:C1P  | 0.77     | 2.09        | 8      | 8     |
| 2:A:168:RCY:H1VB | 2:A:168:RCY:C1P  | 0.77     | 2.08        | 34     | 8     |
| 2:A:168:RCY:H1ZA | 2:A:173:RCY:H1VB | 0.77     | 1.55        | 27     | 1     |
| 1:A:68:CYS:SG    | 2:A:173:RCY:H1ZA | 0.77     | 2.18        | 39     | 1     |
| 2:A:150:RCY:H1YB | 2:A:187:RCY:C1M  | 0.77     | 2.09        | 41     | 1     |
| 1:A:69:PRO:CA    | 2:A:173:RCY:C1V  | 0.77     | 2.62        | 100    | 2     |
| 2:A:150:RCY:C1Z  | 2:A:150:RCY:O1H  | 0.77     | 2.31        | 82     | 1     |
| 2:A:176:RCY:H1CA | 2:A:187:RCY:H1M  | 0.77     | 1.56        | 86     | 1     |
| 2:A:176:RCY:C1Z  | 2:A:187:RCY:H1CB | 0.77     | 2.10        | 2      | 1     |
| 2:A:168:RCY:C1C  | 2:A:176:RCY:H1Z  | 0.77     | 1.52        | 3      | 2     |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:C1C  | 0.77     | 2.06        | 7      | 1     |
| 1:A:65:THR:CG2   | 2:A:130:RCY:C1C  | 0.77     | 2.61        | 9      | 1     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:C1W  | 0.77     | 2.62        | 41     | 2     |
| 1:A:71:GLU:HA    | 2:A:173:RCY:N1R  | 0.77     | 1.93        | 11     | 2     |
| 2:A:138:RCY:H1Z  | 2:A:187:RCY:C1Y  | 0.77     | 2.09        | 32     | 1     |
| 2:A:138:RCY:H1U  | 2:A:150:RCY:C1Q  | 0.77     | 1.67        | 33     | 1     |
| 2:A:168:RCY:H1VB | 2:A:176:RCY:H1VA | 0.77     | 1.55        | 59     | 1     |
| 1:A:71:GLU:O     | 2:A:173:RCY:H1LA | 0.77     | 1.01        | 76     | 2     |
| 2:A:138:RCY:C1M  | 2:A:150:RCY:C1Y  | 0.77     | 2.62        | 89     | 1     |
| 2:A:130:RCY:H1VB | 2:A:130:RCY:C1P  | 0.77     | 2.09        | 49     | 11    |
| 2:A:160:RCY:C1W  | 2:A:173:RCY:C1Z  | 0.77     | 2.61        | 4      | 1     |
| 2:A:130:RCY:C1M  | 2:A:160:RCY:H1M  | 0.77     | 2.00        | 7      | 1     |
| 1:A:72:ALA:C     | 2:A:173:RCY:H1LA | 0.77     | 1.96        | 30     | 2     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:C1V  | 0.77     | 0.78        | 31     | 1     |
| 1:A:71:GLU:HB2   | 2:A:173:RCY:H1VA | 0.77     | 1.54        | 33     | 1     |
| 1:A:74:ASN:O     | 2:A:176:RCY:H1VB | 0.77     | 1.79        | 100    | 2     |
| 1:A:71:GLU:OE2   | 2:A:121:RCY:C1V  | 0.77     | 2.30        | 78     | 1     |
| 2:A:173:RCY:H1VA | 2:A:187:RCY:C1U  | 0.77     | 2.08        | 93     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:173:RCY:C1Z  | 0.77     | 2.04        | 99     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:C1Z  | 0.77     | 2.61        | 3      | 2     |
| 2:A:138:RCY:C1V  | 2:A:187:RCY:H1M  | 0.77     | 2.09        | 21     | 1     |
| 1:A:76:CYS:H     | 2:A:176:RCY:C1S  | 0.77     | 1.90        | 24     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:173:RCY:H1Z  | 2:A:187:RCY:C1V  | 0.77     | 2.10        | 32     | 1     |
| 1:A:59:GLY:H     | 2:A:160:RCY:C1Z  | 0.77     | 1.93        | 49     | 1     |
| 2:A:138:RCY:H1VA | 2:A:187:RCY:H1MA | 0.77     | 1.55        | 49     | 1     |
| 2:A:160:RCY:O1H  | 2:A:168:RCY:O1J  | 0.77     | 2.02        | 56     | 1     |
| 1:A:70:TRP:CD2   | 2:A:176:RCY:H1CA | 0.77     | 2.12        | 62     | 1     |
| 1:A:69:PRO:HD3   | 2:A:168:RCY:H1VB | 0.77     | 1.44        | 63     | 1     |
| 2:A:150:RCY:H1CB | 2:A:176:RCY:C1P  | 0.77     | 2.09        | 82     | 1     |
| 1:A:59:GLY:HA2   | 2:A:160:RCY:C1V  | 0.77     | 2.10        | 2      | 1     |
| 2:A:150:RCY:H1ZB | 2:A:150:RCY:C1P  | 0.77     | 2.09        | 12     | 4     |
| 2:A:150:RCY:O1J  | 2:A:187:RCY:H1Y  | 0.77     | 1.79        | 37     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:121:RCY:C1Z  | 0.77     | 2.63        | 41     | 1     |
| 2:A:173:RCY:C1W  | 2:A:176:RCY:H1YB | 0.77     | 1.88        | 81     | 2     |
| 1:A:64:ILE:HG21  | 2:A:168:RCY:H1ZB | 0.77     | 1.50        | 83     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:H1M  | 0.77     | 2.10        | 99     | 2     |
| 2:A:168:RCY:H1ZB | 2:A:187:RCY:H1ZB | 0.77     | 1.55        | 100    | 1     |
| 1:A:64:ILE:CG2   | 1:A:65:THR:H     | 0.77     | 1.92        | 49     | 4     |
| 2:A:138:RCY:H1VB | 2:A:138:RCY:C1Q  | 0.77     | 2.10        | 36     | 5     |
| 1:A:70:TRP:CB    | 2:A:168:RCY:C1P  | 0.77     | 2.60        | 45     | 2     |
| 2:A:160:RCY:C1C  | 2:A:168:RCY:C1L  | 0.77     | 2.50        | 48     | 1     |
| 2:A:168:RCY:H1MA | 2:A:173:RCY:H1S  | 0.77     | 1.54        | 58     | 1     |
| 2:A:176:RCY:C1Q  | 2:A:176:RCY:H1ZB | 0.77     | 2.08        | 84     | 1     |
| 1:A:61:GLY:CA    | 2:A:168:RCY:C1P  | 0.77     | 2.62        | 24     | 1     |
| 2:A:168:RCY:H1ZA | 2:A:173:RCY:H1C  | 0.77     | 1.55        | 55     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:176:RCY:H1ZB | 0.77     | 1.55        | 60     | 1     |
| 2:A:138:RCY:H1VB | 2:A:150:RCY:C1S  | 0.77     | 2.09        | 62     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:C1Y  | 0.77     | 2.63        | 72     | 1     |
| 1:A:70:TRP:CD1   | 2:A:173:RCY:H1M  | 0.77     | 2.15        | 84     | 1     |
| 2:A:176:RCY:H1VB | 2:A:176:RCY:C1P  | 0.77     | 2.08        | 4      | 6     |
| 2:A:110:RCY:H1ZB | 2:A:110:RCY:C1P  | 0.77     | 2.10        | 56     | 8     |
| 2:A:173:RCY:O1J  | 2:A:176:RCY:O1H  | 0.77     | 2.03        | 70     | 2     |
| 1:A:63:ASP:CG    | 2:A:160:RCY:H1CB | 0.77     | 2.00        | 63     | 2     |
| 2:A:150:RCY:H1VB | 2:A:150:RCY:C1P  | 0.77     | 2.10        | 68     | 8     |
| 2:A:150:RCY:C1Z  | 2:A:160:RCY:C1Q  | 0.77     | 2.63        | 16     | 1     |
| 2:A:138:RCY:N1V  | 2:A:150:RCY:H1ZA | 0.77     | 1.94        | 35     | 1     |
| 2:A:176:RCY:H1M  | 2:A:187:RCY:H1U  | 0.77     | 1.57        | 48     | 1     |
| 1:A:74:ASN:H     | 2:A:176:RCY:C1V  | 0.77     | 1.92        | 62     | 1     |
| 1:A:64:ILE:CD1   | 2:A:187:RCY:O1G  | 0.77     | 2.28        | 85     | 1     |
| 1:A:65:THR:O     | 1:A:66:VAL:HG23  | 0.77     | 1.80        | 86     | 1     |
| 1:A:70:TRP:CB    | 2:A:168:RCY:C1Q  | 0.77     | 2.56        | 20     | 1     |
| 1:A:73:CYS:C     | 2:A:173:RCY:C1Z  | 0.77     | 2.40        | 22     | 1     |
| 2:A:168:RCY:H1L  | 2:A:176:RCY:H1C  | 0.77     | 1.56        | 49     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:74:ASN:CA    | 2:A:176:RCY:C1P  | 0.77     | 2.31        | 78     | 1     |
| 1:A:75:HIS:CE1   | 2:A:176:RCY:H1CB | 0.77     | 2.15        | 84     | 1     |
| 2:A:168:RCY:O1J  | 2:A:176:RCY:C1V  | 0.77     | 2.13        | 84     | 1     |
| 2:A:168:RCY:H1U  | 2:A:187:RCY:H1YB | 0.77     | 1.55        | 87     | 1     |
| 1:A:71:GLU:CD    | 2:A:176:RCY:C1V  | 0.77     | 2.53        | 92     | 1     |
| 1:A:76:CYS:N     | 2:A:176:RCY:C1L  | 0.77     | 2.48        | 10     | 2     |
| 1:A:64:ILE:HD13  | 2:A:168:RCY:C1P  | 0.77     | 2.04        | 12     | 1     |
| 2:A:160:RCY:C1V  | 2:A:168:RCY:O1J  | 0.77     | 2.33        | 94     | 3     |
| 1:A:66:VAL:O     | 2:A:168:RCY:H1C  | 0.77     | 1.80        | 27     | 1     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:C1P  | 0.77     | 2.63        | 34     | 1     |
| 2:A:173:RCY:H1ZA | 2:A:187:RCY:C1Z  | 0.77     | 2.08        | 40     | 1     |
| 1:A:64:ILE:CG2   | 2:A:160:RCY:C1M  | 0.77     | 2.57        | 47     | 1     |
| 1:A:77:GLU:CG    | 2:A:176:RCY:O1G  | 0.77     | 2.33        | 55     | 1     |
| 1:A:60:CYS:O     | 1:A:62:THR:HG23  | 0.77     | 1.80        | 76     | 1     |
| 1:A:64:ILE:HD12  | 2:A:187:RCY:C1M  | 0.77     | 1.97        | 85     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:C1L  | 0.76     | 2.61        | 58     | 5     |
| 1:A:66:VAL:HG13  | 2:A:121:RCY:C1X  | 0.76     | 2.10        | 4      | 1     |
| 2:A:160:RCY:C1Y  | 2:A:173:RCY:H1YA | 0.76     | 2.10        | 8      | 1     |
| 2:A:130:RCY:C1M  | 2:A:160:RCY:C1L  | 0.76     | 2.62        | 18     | 1     |
| 2:A:150:RCY:H1YA | 2:A:160:RCY:H1VA | 0.76     | 1.56        | 42     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:O1G  | 0.76     | 2.31        | 58     | 1     |
| 2:A:168:RCY:H1CB | 2:A:187:RCY:H1Z  | 0.76     | 1.54        | 64     | 1     |
| 2:A:160:RCY:C1Q  | 2:A:160:RCY:H1ZB | 0.76     | 2.10        | 68     | 1     |
| 1:A:67:ILE:HG12  | 2:A:160:RCY:C1C  | 0.76     | 2.07        | 86     | 1     |
| 2:A:138:RCY:H1YA | 2:A:187:RCY:C1P  | 0.76     | 2.10        | 89     | 1     |
| 1:A:76:CYS:H     | 2:A:176:RCY:C1L  | 0.76     | 1.94        | 10     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:173:RCY:C1S  | 0.76     | 2.62        | 15     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:173:RCY:H1ZA | 0.76     | 2.10        | 32     | 1     |
| 2:A:160:RCY:H1MA | 2:A:168:RCY:N1R  | 0.76     | 1.95        | 34     | 1     |
| 1:A:65:THR:O     | 1:A:65:THR:HG23  | 0.76     | 1.79        | 44     | 2     |
| 2:A:173:RCY:C1W  | 2:A:187:RCY:C1L  | 0.76     | 2.63        | 96     | 2     |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:H1ZB | 0.76     | 1.56        | 57     | 1     |
| 1:A:70:TRP:CH2   | 2:A:168:RCY:H1ZA | 0.76     | 2.15        | 59     | 1     |
| 2:A:168:RCY:H1CB | 2:A:168:RCY:O1G  | 0.76     | 1.77        | 2      | 3     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:C1M  | 0.76     | 2.09        | 3      | 1     |
| 1:A:69:PRO:CD    | 2:A:168:RCY:C1P  | 0.76     | 2.63        | 13     | 4     |
| 2:A:173:RCY:C1S  | 2:A:176:RCY:O1H  | 0.76     | 2.32        | 54     | 3     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:C1P  | 0.76     | 2.68        | 46     | 1     |
| 2:A:173:RCY:H1V  | 2:A:187:RCY:C1V  | 0.76     | 1.87        | 55     | 1     |
| 1:A:62:THR:O     | 2:A:168:RCY:H1CB | 0.76     | 1.78        | 61     | 1     |
| 2:A:130:RCY:C1Z  | 2:A:130:RCY:H1Y  | 0.76     | 2.08        | 79     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:176:RCY:H1S  | 2:A:187:RCY:H1Z  | 0.76     | 1.55        | 80     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:H1C  | 0.76     | 1.92        | 97     | 1     |
| 2:A:168:RCY:C1W  | 2:A:187:RCY:C1W  | 0.76     | 2.31        | 97     | 1     |
| 2:A:110:RCY:C1X  | 2:A:121:RCY:H1M  | 0.76     | 2.09        | 5      | 1     |
| 2:A:176:RCY:C1W  | 2:A:187:RCY:O1G  | 0.76     | 2.33        | 10     | 1     |
| 1:A:62:THR:CG2   | 2:A:130:RCY:C1U  | 0.76     | 2.64        | 18     | 1     |
| 2:A:168:RCY:H1LA | 2:A:173:RCY:H1U  | 0.76     | 1.57        | 21     | 1     |
| 2:A:176:RCY:C1U  | 2:A:176:RCY:C1C  | 0.76     | 2.61        | 25     | 1     |
| 1:A:70:TRP:CE3   | 2:A:173:RCY:C1Z  | 0.76     | 1.95        | 92     | 2     |
| 1:A:60:CYS:HA    | 2:A:160:RCY:O1H  | 0.76     | 1.78        | 29     | 3     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:O1G  | 0.76     | 1.79        | 36     | 2     |
| 2:A:138:RCY:C1W  | 2:A:150:RCY:O1J  | 0.76     | 2.33        | 97     | 1     |
| 2:A:173:RCY:H1VB | 2:A:173:RCY:C1P  | 0.76     | 2.10        | 46     | 5     |
| 2:A:176:RCY:H1V  | 2:A:187:RCY:H1ZA | 0.76     | 1.53        | 34     | 1     |
| 2:A:173:RCY:H1CB | 2:A:176:RCY:H1L  | 0.76     | 1.11        | 36     | 2     |
| 2:A:150:RCY:C1V  | 2:A:173:RCY:H1YA | 0.76     | 2.10        | 39     | 1     |
| 2:A:150:RCY:O1J  | 2:A:187:RCY:C1W  | 0.76     | 2.34        | 59     | 1     |
| 2:A:168:RCY:C1V  | 2:A:176:RCY:C1Q  | 0.76     | 2.64        | 71     | 1     |
| 2:A:168:RCY:H1ZA | 2:A:187:RCY:H1M  | 0.76     | 0.77        | 84     | 1     |
| 2:A:176:RCY:N1V  | 2:A:187:RCY:C1S  | 0.76     | 2.31        | 96     | 1     |
| 1:A:70:TRP:N     | 2:A:176:RCY:H1Z  | 0.76     | 1.94        | 18     | 1     |
| 2:A:150:RCY:C1W  | 2:A:187:RCY:H1YA | 0.76     | 2.09        | 18     | 1     |
| 2:A:150:RCY:H1VA | 2:A:173:RCY:C1X  | 0.76     | 2.10        | 31     | 1     |
| 2:A:150:RCY:H1Y  | 2:A:187:RCY:H1Y  | 0.76     | 1.55        | 32     | 1     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:N1R  | 0.76     | 2.54        | 33     | 1     |
| 2:A:138:RCY:O1G  | 2:A:138:RCY:C1V  | 0.76     | 2.30        | 54     | 3     |
| 1:A:61:GLY:O     | 1:A:64:ILE:HG22  | 0.76     | 1.81        | 94     | 2     |
| 2:A:168:RCY:O1J  | 2:A:176:RCY:O1J  | 0.76     | 2.03        | 89     | 1     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:H1CB | 0.76     | 1.57        | 28     | 1     |
| 1:A:64:ILE:CB    | 2:A:168:RCY:O1G  | 0.76     | 2.06        | 69     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:H1CB | 0.76     | 2.16        | 95     | 1     |
| 1:A:76:CYS:SG    | 1:A:76:CYS:O     | 0.76     | 2.44        | 69     | 7     |
| 1:A:68:CYS:HB3   | 2:A:176:RCY:O1J  | 0.76     | 1.81        | 78     | 2     |
| 2:A:150:RCY:C1V  | 2:A:187:RCY:C1U  | 0.76     | 2.63        | 38     | 1     |
| 1:A:71:GLU:O     | 2:A:176:RCY:H1C  | 0.76     | 1.78        | 44     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:H1L  | 0.76     | 2.10        | 45     | 2     |
| 1:A:78:LEU:HD11  | 2:A:176:RCY:C1P  | 0.76     | 2.11        | 56     | 1     |
| 1:A:59:GLY:CA    | 2:A:160:RCY:N1R  | 0.76     | 2.45        | 70     | 1     |
| 1:A:64:ILE:HG23  | 2:A:168:RCY:C1Z  | 0.76     | 2.09        | 83     | 1     |
| 1:A:60:CYS:O     | 2:A:160:RCY:C1Q  | 0.76     | 2.33        | 2      | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:H1MA | 0.76     | 1.95        | 52     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:70:TRP:CA    | 2:A:173:RCY:N1R  | 0.76     | 2.43        | 6      | 1     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:H1Z  | 0.76     | 2.10        | 27     | 1     |
| 1:A:70:TRP:HD1   | 2:A:187:RCY:C1Z  | 0.76     | 1.94        | 51     | 1     |
| 2:A:168:RCY:H1U  | 2:A:176:RCY:H1YA | 0.76     | 0.77        | 59     | 1     |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:H1Z  | 0.76     | 1.57        | 69     | 1     |
| 1:A:66:VAL:HB    | 2:A:138:RCY:H1V  | 0.76     | 1.58        | 72     | 1     |
| 1:A:65:THR:HG22  | 1:A:65:THR:O     | 0.76     | 1.81        | 90     | 10    |
| 1:A:63:ASP:OD2   | 2:A:168:RCY:O1J  | 0.76     | 1.82        | 78     | 2     |
| 2:A:138:RCY:C1L  | 2:A:150:RCY:H1M  | 0.76     | 2.10        | 30     | 1     |
| 1:A:73:CYS:HB2   | 2:A:168:RCY:C1U  | 0.76     | 2.10        | 57     | 1     |
| 1:A:70:TRP:NE1   | 2:A:187:RCY:C1Z  | 0.76     | 2.28        | 92     | 2     |
| 1:A:70:TRP:CD1   | 2:A:168:RCY:H1L  | 0.76     | 2.16        | 89     | 1     |
| 2:A:160:RCY:H1Y  | 2:A:176:RCY:H1Y  | 0.76     | 1.58        | 89     | 1     |
| 1:A:70:TRP:N     | 2:A:173:RCY:C1C  | 0.76     | 2.48        | 92     | 1     |
| 1:A:68:CYS:SG    | 2:A:176:RCY:C1Y  | 0.75     | 2.74        | 18     | 1     |
| 2:A:173:RCY:C1L  | 2:A:176:RCY:C1L  | 0.75     | 2.63        | 28     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:176:RCY:C1M  | 0.75     | 1.86        | 37     | 1     |
| 2:A:138:RCY:O1H  | 2:A:160:RCY:C1L  | 0.75     | 2.29        | 38     | 1     |
| 2:A:121:RCY:H1VA | 2:A:168:RCY:H1YB | 0.75     | 0.76        | 49     | 1     |
| 2:A:150:RCY:O1J  | 2:A:187:RCY:H1CA | 0.75     | 1.81        | 50     | 1     |
| 1:A:74:ASN:OD1   | 2:A:176:RCY:C1Y  | 0.75     | 2.34        | 56     | 1     |
| 2:A:173:RCY:H1Z  | 2:A:176:RCY:H1Z  | 0.75     | 1.57        | 60     | 1     |
| 2:A:176:RCY:H1YB | 2:A:187:RCY:C1M  | 0.75     | 2.11        | 69     | 1     |
| 1:A:69:PRO:HG3   | 2:A:176:RCY:H1YB | 0.75     | 1.57        | 72     | 1     |
| 2:A:130:RCY:O1J  | 2:A:138:RCY:H1LA | 0.75     | 1.81        | 73     | 1     |
| 1:A:69:PRO:CA    | 2:A:173:RCY:C1Z  | 0.75     | 2.59        | 75     | 1     |
| 1:A:65:THR:H     | 2:A:168:RCY:C1L  | 0.75     | 1.94        | 97     | 1     |
| 1:A:70:TRP:CD1   | 1:A:70:TRP:O     | 0.75     | 2.39        | 86     | 12    |
| 2:A:176:RCY:H1VB | 2:A:187:RCY:O1G  | 0.75     | 1.82        | 15     | 1     |
| 1:A:70:TRP:C     | 2:A:168:RCY:H1S  | 0.75     | 2.02        | 28     | 1     |
| 1:A:60:CYS:O     | 2:A:168:RCY:C1Y  | 0.75     | 2.34        | 30     | 1     |
| 2:A:160:RCY:H1U  | 2:A:168:RCY:H1C  | 0.75     | 0.81        | 49     | 1     |
| 2:A:138:RCY:C1S  | 2:A:138:RCY:C1C  | 0.75     | 2.63        | 50     | 1     |
| 1:A:64:ILE:CG2   | 2:A:168:RCY:H1C  | 0.75     | 2.10        | 54     | 1     |
| 2:A:130:RCY:O1G  | 2:A:130:RCY:H1CB | 0.75     | 1.81        | 88     | 3     |
| 1:A:69:PRO:CD    | 2:A:173:RCY:C1C  | 0.75     | 2.64        | 77     | 1     |
| 2:A:138:RCY:C1Q  | 2:A:150:RCY:H1Z  | 0.75     | 2.04        | 82     | 1     |
| 1:A:69:PRO:HB2   | 2:A:150:RCY:H1Y  | 0.75     | 1.59        | 85     | 1     |
| 1:A:73:CYS:HB2   | 2:A:168:RCY:C1Z  | 0.75     | 1.52        | 99     | 1     |
| 2:A:138:RCY:C1M  | 2:A:150:RCY:C1L  | 0.75     | 2.64        | 1      | 1     |
| 2:A:168:RCY:H1L  | 2:A:173:RCY:H1V  | 0.75     | 0.76        | 4      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:C1W  | 2:A:187:RCY:H1Y  | 0.75     | 2.11        | 7      | 2     |
| 2:A:138:RCY:H1ZB | 2:A:138:RCY:C1P  | 0.75     | 2.11        | 21     | 11    |
| 1:A:65:THR:O     | 2:A:176:RCY:H1Y  | 0.75     | 1.81        | 22     | 1     |
| 2:A:110:RCY:C1Y  | 2:A:121:RCY:O1J  | 0.75     | 2.34        | 33     | 1     |
| 1:A:65:THR:HG22  | 2:A:160:RCY:C1M  | 0.75     | 1.78        | 100    | 2     |
| 1:A:70:TRP:HZ2   | 2:A:160:RCY:O1H  | 0.75     | 1.61        | 58     | 1     |
| 2:A:150:RCY:H1Y  | 2:A:187:RCY:H1MA | 0.75     | 1.37        | 59     | 1     |
| 2:A:121:RCY:C1C  | 2:A:121:RCY:O1G  | 0.75     | 2.34        | 74     | 2     |
| 1:A:71:GLU:N     | 2:A:176:RCY:C1V  | 0.75     | 2.01        | 76     | 1     |
| 2:A:168:RCY:H1MA | 2:A:173:RCY:H1ZB | 0.75     | 1.48        | 84     | 1     |
| 2:A:168:RCY:C1U  | 2:A:187:RCY:C1V  | 0.75     | 2.63        | 90     | 1     |
| 2:A:168:RCY:H1Y  | 2:A:187:RCY:H1L  | 0.75     | 1.58        | 3      | 1     |
| 1:A:69:PRO:HG3   | 2:A:130:RCY:C1C  | 0.75     | 2.11        | 18     | 1     |
| 2:A:130:RCY:H1VA | 2:A:173:RCY:H1YA | 0.75     | 1.56        | 18     | 1     |
| 1:A:77:GLU:CG    | 2:A:173:RCY:O1G  | 0.75     | 2.34        | 28     | 1     |
| 1:A:71:GLU:OE2   | 2:A:173:RCY:C1V  | 0.75     | 2.34        | 68     | 2     |
| 1:A:73:CYS:HA    | 2:A:173:RCY:O1H  | 0.75     | 1.81        | 65     | 2     |
| 2:A:138:RCY:H1C  | 2:A:150:RCY:H1CB | 0.75     | 1.56        | 66     | 1     |
| 2:A:168:RCY:O1H  | 2:A:176:RCY:O1J  | 0.75     | 2.04        | 76     | 1     |
| 2:A:130:RCY:C1V  | 2:A:160:RCY:O1G  | 0.75     | 2.26        | 87     | 1     |
| 2:A:150:RCY:C1V  | 2:A:187:RCY:H1L  | 0.75     | 2.12        | 87     | 1     |
| 2:A:150:RCY:C1W  | 2:A:176:RCY:C1C  | 0.75     | 2.64        | 3      | 1     |
| 1:A:77:GLU:CG    | 2:A:173:RCY:H1VB | 0.75     | 2.09        | 32     | 1     |
| 2:A:173:RCY:C1M  | 2:A:187:RCY:O1J  | 0.75     | 2.25        | 89     | 2     |
| 2:A:168:RCY:H1CB | 2:A:173:RCY:O1G  | 0.75     | 1.82        | 48     | 1     |
| 2:A:176:RCY:H1VB | 2:A:176:RCY:O1G  | 0.75     | 1.81        | 62     | 1     |
| 2:A:130:RCY:C1X  | 2:A:160:RCY:O1J  | 0.75     | 2.34        | 64     | 1     |
| 2:A:168:RCY:H1S  | 2:A:176:RCY:H1VB | 0.75     | 1.56        | 71     | 1     |
| 2:A:173:RCY:H1Y  | 2:A:187:RCY:C1M  | 0.75     | 2.11        | 77     | 1     |
| 2:A:130:RCY:H1VA | 2:A:130:RCY:O1J  | 0.75     | 1.82        | 79     | 1     |
| 1:A:63:ASP:OD1   | 2:A:150:RCY:C1Z  | 0.75     | 2.34        | 80     | 1     |
| 1:A:60:CYS:CA    | 2:A:138:RCY:C1V  | 0.75     | 2.62        | 7      | 1     |
| 2:A:150:RCY:O1H  | 2:A:150:RCY:H1ZB | 0.75     | 1.80        | 21     | 2     |
| 2:A:160:RCY:H1ZB | 2:A:168:RCY:C1U  | 0.75     | 2.12        | 20     | 1     |
| 1:A:66:VAL:O     | 2:A:168:RCY:O1H  | 0.75     | 2.05        | 51     | 1     |
| 1:A:70:TRP:HH2   | 2:A:168:RCY:H1ZA | 0.75     | 1.42        | 59     | 1     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:C1Y  | 0.75     | 2.57        | 59     | 1     |
| 2:A:138:RCY:C1X  | 2:A:150:RCY:C1Y  | 0.75     | 2.01        | 88     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:173:RCY:C1U  | 0.75     | 2.61        | 3      | 1     |
| 2:A:187:RCY:H1ZB | 2:A:187:RCY:C1Q  | 0.75     | 2.12        | 23     | 7     |
| 1:A:60:CYS:O     | 2:A:138:RCY:H1VB | 0.75     | 1.79        | 7      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:78:LEU:CD1   | 1:A:78:LEU:N     | 0.75     | 2.50        | 51     | 3     |
| 1:A:76:CYS:CB    | 2:A:187:RCY:H1VB | 0.75     | 2.10        | 34     | 1     |
| 2:A:168:RCY:C1V  | 2:A:173:RCY:C1U  | 0.75     | 2.64        | 45     | 1     |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:C1P  | 0.75     | 2.50        | 61     | 2     |
| 2:A:160:RCY:C1C  | 2:A:168:RCY:H1M  | 0.75     | 2.11        | 96     | 1     |
| 2:A:168:RCY:O1J  | 2:A:187:RCY:C1C  | 0.75     | 2.34        | 99     | 1     |
| 2:A:168:RCY:O1G  | 2:A:173:RCY:N1V  | 0.75     | 2.19        | 4      | 1     |
| 2:A:176:RCY:H1U  | 2:A:187:RCY:H1Z  | 0.75     | 0.75        | 5      | 1     |
| 1:A:78:LEU:HD22  | 1:A:78:LEU:C     | 0.75     | 2.02        | 12     | 3     |
| 2:A:138:RCY:H1YB | 2:A:173:RCY:C1Z  | 0.75     | 2.10        | 32     | 1     |
| 2:A:168:RCY:C1C  | 2:A:168:RCY:O1G  | 0.75     | 2.34        | 43     | 1     |
| 1:A:71:GLU:CB    | 2:A:173:RCY:C1V  | 0.75     | 2.57        | 50     | 1     |
| 2:A:160:RCY:C1U  | 2:A:160:RCY:C1C  | 0.75     | 2.63        | 79     | 1     |
| 2:A:110:RCY:C1Y  | 2:A:121:RCY:H1CB | 0.75     | 2.08        | 81     | 1     |
| 1:A:71:GLU:OE1   | 2:A:173:RCY:C1Q  | 0.75     | 2.34        | 89     | 1     |
| 1:A:70:TRP:CG    | 2:A:168:RCY:C1S  | 0.75     | 2.63        | 20     | 1     |
| 1:A:63:ASP:OD2   | 2:A:138:RCY:H1U  | 0.75     | 1.82        | 27     | 1     |
| 1:A:66:VAL:O     | 2:A:168:RCY:H1VA | 0.75     | 1.81        | 27     | 1     |
| 2:A:160:RCY:H1ZB | 2:A:160:RCY:C1P  | 0.75     | 2.10        | 30     | 3     |
| 1:A:70:TRP:CH2   | 2:A:168:RCY:O1J  | 0.75     | 2.39        | 41     | 1     |
| 1:A:68:CYS:SG    | 2:A:173:RCY:C1V  | 0.75     | 2.70        | 71     | 1     |
| 1:A:70:TRP:CE2   | 2:A:168:RCY:H1LA | 0.75     | 2.17        | 71     | 1     |
| 1:A:63:ASP:O     | 2:A:168:RCY:H1S  | 0.75     | 1.82        | 80     | 1     |
| 2:A:160:RCY:C1U  | 2:A:168:RCY:C1W  | 0.75     | 2.23        | 96     | 1     |
| 2:A:150:RCY:O1H  | 2:A:150:RCY:H1VB | 0.74     | 1.81        | 89     | 2     |
| 1:A:76:CYS:CB    | 2:A:173:RCY:H1Y  | 0.74     | 2.12        | 42     | 1     |
| 1:A:69:PRO:HG3   | 2:A:173:RCY:C1Y  | 0.74     | 2.12        | 61     | 1     |
| 1:A:66:VAL:CG1   | 2:A:160:RCY:O1H  | 0.74     | 2.34        | 68     | 1     |
| 1:A:70:TRP:CB    | 2:A:168:RCY:O1J  | 0.74     | 2.36        | 76     | 1     |
| 1:A:70:TRP:CB    | 2:A:173:RCY:C1W  | 0.74     | 2.64        | 84     | 1     |
| 2:A:168:RCY:H1CA | 2:A:173:RCY:C1V  | 0.74     | 2.11        | 85     | 1     |
| 2:A:176:RCY:C1X  | 2:A:187:RCY:H1M  | 0.74     | 2.10        | 26     | 1     |
| 2:A:150:RCY:C1X  | 2:A:173:RCY:C1V  | 0.74     | 2.65        | 31     | 1     |
| 2:A:160:RCY:O1H  | 2:A:168:RCY:H1M  | 0.74     | 1.82        | 39     | 1     |
| 2:A:168:RCY:H1VA | 2:A:173:RCY:H1U  | 0.74     | 1.57        | 45     | 1     |
| 1:A:72:ALA:N     | 2:A:173:RCY:H1ZA | 0.74     | 1.97        | 50     | 1     |
| 1:A:60:CYS:CA    | 2:A:160:RCY:H1L  | 0.74     | 2.11        | 89     | 1     |
| 1:A:71:GLU:HG3   | 2:A:176:RCY:C1Y  | 0.74     | 2.12        | 92     | 1     |
| 2:A:138:RCY:C1L  | 2:A:150:RCY:C1V  | 0.74     | 2.55        | 98     | 1     |
| 2:A:130:RCY:H1CB | 2:A:130:RCY:O1G  | 0.74     | 1.82        | 64     | 4     |
| 2:A:138:RCY:H1ZA | 2:A:176:RCY:C1L  | 0.74     | 2.12        | 22     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:176:RCY:H1CB | 2:A:187:RCY:C1M  | 0.74     | 2.12        | 26     | 1     |
| 2:A:173:RCY:H1CA | 2:A:176:RCY:H1S  | 0.74     | 1.59        | 33     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:168:RCY:C1P  | 0.74     | 2.69        | 48     | 2     |
| 2:A:168:RCY:C1X  | 2:A:187:RCY:C1M  | 0.74     | 2.65        | 70     | 1     |
| 2:A:150:RCY:H1CB | 2:A:176:RCY:C1U  | 0.74     | 2.12        | 82     | 1     |
| 1:A:66:VAL:HG11  | 2:A:121:RCY:C1X  | 0.74     | 2.09        | 83     | 1     |
| 1:A:74:ASN:O     | 2:A:173:RCY:C1L  | 0.74     | 2.35        | 90     | 1     |
| 1:A:71:GLU:HG2   | 2:A:130:RCY:H1M  | 0.74     | 1.58        | 94     | 1     |
| 2:A:160:RCY:C1U  | 2:A:168:RCY:H1MA | 0.74     | 1.95        | 96     | 1     |
| 1:A:75:HIS:HE1   | 2:A:173:RCY:H1YB | 0.74     | 1.42        | 33     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:H1YB | 0.74     | 2.09        | 53     | 1     |
| 1:A:69:PRO:HG3   | 2:A:187:RCY:H1ZB | 0.74     | 0.79        | 54     | 1     |
| 2:A:121:RCY:H1ZB | 2:A:121:RCY:C1S  | 0.74     | 2.11        | 59     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:C1S  | 0.74     | 2.66        | 60     | 1     |
| 1:A:69:PRO:HB2   | 2:A:176:RCY:H1ZB | 0.74     | 1.16        | 66     | 1     |
| 1:A:69:PRO:O     | 2:A:173:RCY:H1ZB | 0.74     | 1.80        | 85     | 2     |
| 1:A:70:TRP:HB3   | 2:A:168:RCY:O1J  | 0.74     | 1.81        | 76     | 1     |
| 1:A:63:ASP:C     | 2:A:160:RCY:C1V  | 0.74     | 2.48        | 3      | 1     |
| 2:A:138:RCY:H1V  | 2:A:176:RCY:O1J  | 0.74     | 1.81        | 9      | 1     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:H1ZB | 0.74     | 2.10        | 9      | 1     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:C1P  | 0.74     | 2.11        | 17     | 1     |
| 2:A:110:RCY:H1CB | 2:A:110:RCY:O1H  | 0.74     | 1.83        | 18     | 2     |
| 2:A:173:RCY:H1C  | 2:A:176:RCY:H1ZB | 0.74     | 1.60        | 27     | 2     |
| 1:A:70:TRP:NE1   | 2:A:173:RCY:O1G  | 0.74     | 2.20        | 44     | 2     |
| 2:A:168:RCY:H1VA | 2:A:173:RCY:C1U  | 0.74     | 2.12        | 45     | 1     |
| 2:A:130:RCY:H1CB | 2:A:160:RCY:H1ZB | 0.74     | 1.57        | 62     | 1     |
| 2:A:138:RCY:H1Z  | 2:A:150:RCY:H1ZB | 0.74     | 1.58        | 76     | 1     |
| 2:A:168:RCY:C1L  | 2:A:173:RCY:H1VA | 0.74     | 2.07        | 80     | 1     |
| 1:A:64:ILE:CD1   | 2:A:187:RCY:C1P  | 0.74     | 2.65        | 85     | 1     |
| 1:A:65:THR:N     | 2:A:168:RCY:H1L  | 0.74     | 1.98        | 97     | 2     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:C1V  | 0.74     | 2.36        | 26     | 2     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:H1VB | 0.74     | 0.75        | 31     | 1     |
| 2:A:150:RCY:H1CB | 2:A:150:RCY:O1H  | 0.74     | 1.83        | 88     | 1     |
| 2:A:160:RCY:C1W  | 2:A:168:RCY:C1Z  | 0.74     | 2.58        | 9      | 1     |
| 1:A:62:THR:N     | 2:A:150:RCY:C1V  | 0.74     | 2.50        | 11     | 1     |
| 2:A:130:RCY:H1VA | 2:A:160:RCY:H1V  | 0.74     | 1.59        | 18     | 1     |
| 1:A:63:ASP:OD2   | 2:A:121:RCY:H1YA | 0.74     | 1.83        | 42     | 1     |
| 1:A:64:ILE:HG23  | 2:A:160:RCY:H1CB | 0.74     | 1.60        | 48     | 1     |
| 1:A:64:ILE:HG13  | 2:A:168:RCY:C1Q  | 0.74     | 2.12        | 58     | 2     |
| 2:A:150:RCY:H1CB | 2:A:187:RCY:H1YB | 0.74     | 1.56        | 81     | 1     |
| 1:A:70:TRP:HA    | 2:A:173:RCY:C1W  | 0.74     | 2.11        | 85     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:C1Q  | 0.74     | 2.66        | 88     | 1     |
| 2:A:150:RCY:C1P  | 2:A:150:RCY:H1CA | 0.74     | 2.10        | 98     | 5     |
| 2:A:187:RCY:C1Z  | 2:A:187:RCY:O1H  | 0.74     | 2.36        | 42     | 4     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:N1V  | 0.74     | 1.96        | 11     | 1     |
| 2:A:176:RCY:H1C  | 2:A:187:RCY:H1YB | 0.74     | 1.44        | 26     | 1     |
| 2:A:150:RCY:C1W  | 2:A:187:RCY:H1VB | 0.74     | 2.13        | 38     | 1     |
| 1:A:64:ILE:HD13  | 2:A:160:RCY:H1VA | 0.74     | 1.56        | 39     | 1     |
| 2:A:160:RCY:H1C  | 2:A:168:RCY:H1ZB | 0.74     | 1.58        | 47     | 1     |
| 1:A:64:ILE:HD11  | 2:A:160:RCY:C1Y  | 0.74     | 2.12        | 74     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:187:RCY:H1M  | 0.74     | 2.11        | 76     | 1     |
| 2:A:168:RCY:H1YB | 2:A:176:RCY:H1C  | 0.74     | 1.57        | 90     | 1     |
| 1:A:70:TRP:CB    | 2:A:168:RCY:O1G  | 0.74     | 2.35        | 45     | 2     |
| 1:A:61:GLY:CA    | 2:A:138:RCY:C1V  | 0.74     | 2.65        | 7      | 1     |
| 2:A:150:RCY:O1H  | 2:A:150:RCY:H1CB | 0.74     | 1.83        | 70     | 4     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:H1VA | 0.74     | 0.76        | 19     | 1     |
| 2:A:168:RCY:H1CA | 2:A:168:RCY:C1P  | 0.74     | 2.12        | 53     | 3     |
| 2:A:168:RCY:H1YB | 2:A:173:RCY:H1VA | 0.74     | 0.76        | 45     | 1     |
| 1:A:69:PRO:HG2   | 2:A:160:RCY:H1Y  | 0.74     | 1.57        | 57     | 1     |
| 2:A:138:RCY:O1J  | 2:A:160:RCY:O1H  | 0.74     | 2.04        | 18     | 1     |
| 1:A:69:PRO:HB2   | 2:A:168:RCY:H1YB | 0.74     | 1.56        | 22     | 1     |
| 1:A:71:GLU:HG2   | 2:A:168:RCY:H1CB | 0.74     | 0.77        | 93     | 2     |
| 2:A:173:RCY:H1ZA | 2:A:176:RCY:H1MA | 0.74     | 1.56        | 37     | 1     |
| 2:A:130:RCY:H1CB | 2:A:130:RCY:O1H  | 0.74     | 1.83        | 44     | 7     |
| 1:A:70:TRP:HZ3   | 2:A:160:RCY:C1Y  | 0.74     | 1.96        | 44     | 1     |
| 1:A:65:THR:CG2   | 2:A:160:RCY:H1YA | 0.74     | 2.03        | 55     | 1     |
| 2:A:138:RCY:C1Q  | 2:A:150:RCY:H1U  | 0.74     | 2.13        | 67     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:187:RCY:H1VA | 0.74     | 2.12        | 82     | 1     |
| 1:A:75:HIS:CE1   | 2:A:176:RCY:C1C  | 0.74     | 2.70        | 84     | 1     |
| 1:A:68:CYS:O     | 2:A:173:RCY:H1V  | 0.74     | 1.74        | 100    | 1     |
| 1:A:70:TRP:HA    | 2:A:173:RCY:C1Q  | 0.73     | 2.12        | 6      | 2     |
| 2:A:168:RCY:C1C  | 2:A:173:RCY:C1Q  | 0.73     | 2.65        | 8      | 1     |
| 2:A:168:RCY:C1P  | 2:A:168:RCY:H1VB | 0.73     | 2.12        | 10     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:C1Z  | 0.73     | 2.64        | 17     | 1     |
| 2:A:130:RCY:H1Y  | 2:A:160:RCY:C1V  | 0.73     | 2.12        | 43     | 2     |
| 1:A:64:ILE:HB    | 2:A:160:RCY:C1Z  | 0.73     | 2.13        | 78     | 1     |
| 1:A:59:GLY:H     | 2:A:160:RCY:C1P  | 0.73     | 1.95        | 85     | 1     |
| 2:A:110:RCY:N1V  | 2:A:121:RCY:H1M  | 0.73     | 1.98        | 5      | 1     |
| 2:A:176:RCY:H1V  | 2:A:187:RCY:C1L  | 0.73     | 2.13        | 15     | 1     |
| 2:A:138:RCY:H1CB | 2:A:187:RCY:C1Y  | 0.73     | 2.09        | 21     | 1     |
| 2:A:138:RCY:H1CB | 2:A:160:RCY:H1V  | 0.73     | 0.74        | 27     | 1     |
| 2:A:150:RCY:H1YB | 2:A:187:RCY:O1H  | 0.73     | 1.17        | 27     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:O1J  | 0.73     | 2.32        | 29     | 1     |
| 2:A:173:RCY:O1H  | 2:A:173:RCY:H1CB | 0.73     | 1.83        | 81     | 3     |
| 1:A:71:GLU:HB3   | 2:A:160:RCY:H1VB | 0.73     | 1.58        | 58     | 1     |
| 2:A:168:RCY:O1G  | 2:A:173:RCY:H1CA | 0.73     | 1.83        | 60     | 2     |
| 1:A:68:CYS:SG    | 2:A:176:RCY:H1Y  | 0.73     | 2.24        | 18     | 1     |
| 2:A:138:RCY:H1C  | 2:A:160:RCY:H1Y  | 0.73     | 1.49        | 27     | 1     |
| 1:A:70:TRP:CD1   | 2:A:173:RCY:H1CB | 0.73     | 2.18        | 38     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:C1U  | 0.73     | 2.65        | 77     | 2     |
| 1:A:70:TRP:HB2   | 2:A:173:RCY:N1V  | 0.73     | 1.96        | 64     | 1     |
| 1:A:70:TRP:CG    | 2:A:176:RCY:C1V  | 0.73     | 2.08        | 77     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:C1S  | 0.73     | 2.66        | 92     | 1     |
| 1:A:69:PRO:HA    | 2:A:173:RCY:C1L  | 0.73     | 2.12        | 10     | 2     |
| 2:A:168:RCY:C1W  | 2:A:176:RCY:O1G  | 0.73     | 2.34        | 20     | 1     |
| 2:A:173:RCY:N1R  | 2:A:173:RCY:C1M  | 0.73     | 2.52        | 25     | 2     |
| 1:A:70:TRP:C     | 2:A:168:RCY:H1ZB | 0.73     | 2.04        | 36     | 1     |
| 2:A:138:RCY:C1P  | 2:A:187:RCY:H1VA | 0.73     | 2.13        | 39     | 1     |
| 1:A:76:CYS:SG    | 2:A:173:RCY:C1Y  | 0.73     | 2.77        | 42     | 1     |
| 2:A:160:RCY:C1V  | 2:A:168:RCY:C1M  | 0.73     | 2.03        | 92     | 2     |
| 2:A:160:RCY:O1H  | 2:A:173:RCY:C1Y  | 0.73     | 2.34        | 71     | 1     |
| 1:A:69:PRO:HG3   | 2:A:173:RCY:C1V  | 0.73     | 2.12        | 10     | 2     |
| 1:A:67:ILE:CB    | 2:A:176:RCY:C1V  | 0.73     | 2.65        | 16     | 1     |
| 2:A:176:RCY:H1CB | 2:A:176:RCY:O1H  | 0.73     | 1.84        | 24     | 3     |
| 2:A:168:RCY:H1CB | 2:A:168:RCY:O1H  | 0.73     | 1.84        | 67     | 5     |
| 2:A:110:RCY:C1P  | 2:A:110:RCY:H1ZB | 0.73     | 2.13        | 38     | 2     |
| 2:A:176:RCY:H1YB | 2:A:187:RCY:H1VA | 0.73     | 1.60        | 38     | 1     |
| 1:A:69:PRO:HB3   | 2:A:168:RCY:C1Y  | 0.73     | 2.07        | 66     | 1     |
| 1:A:75:HIS:C     | 2:A:173:RCY:H1Z  | 0.73     | 2.03        | 88     | 1     |
| 2:A:173:RCY:O1J  | 2:A:176:RCY:C1P  | 0.73     | 2.36        | 93     | 3     |
| 1:A:66:VAL:HG12  | 2:A:121:RCY:H1U  | 0.73     | 1.60        | 4      | 1     |
| 1:A:64:ILE:CB    | 2:A:150:RCY:H1VA | 0.73     | 2.14        | 16     | 1     |
| 1:A:73:CYS:HB2   | 2:A:168:RCY:C1C  | 0.73     | 2.14        | 22     | 1     |
| 2:A:138:RCY:H1CB | 2:A:138:RCY:O1H  | 0.73     | 1.83        | 26     | 3     |
| 1:A:67:ILE:CG1   | 2:A:176:RCY:C1C  | 0.73     | 2.64        | 53     | 1     |
| 2:A:138:RCY:O1H  | 2:A:138:RCY:H1CB | 0.73     | 1.84        | 60     | 1     |
| 1:A:63:ASP:HA    | 2:A:150:RCY:H1ZA | 0.73     | 1.59        | 80     | 1     |
| 2:A:138:RCY:C1P  | 2:A:187:RCY:H1CB | 0.73     | 2.13        | 5      | 1     |
| 2:A:138:RCY:C1M  | 2:A:187:RCY:H1U  | 0.73     | 1.92        | 13     | 1     |
| 1:A:67:ILE:CB    | 2:A:176:RCY:H1VA | 0.73     | 2.14        | 16     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:C1V  | 0.73     | 2.67        | 29     | 3     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:H1V  | 0.73     | 2.13        | 32     | 1     |
| 2:A:173:RCY:H1M  | 2:A:176:RCY:N1R  | 0.73     | 1.98        | 38     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:71:GLU:HG2   | 2:A:173:RCY:C1V  | 0.73     | 2.13        | 41     | 1     |
| 1:A:75:HIS:O     | 2:A:176:RCY:H1ZA | 0.73     | 1.84        | 67     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:187:RCY:C1Z  | 0.73     | 1.81        | 84     | 1     |
| 1:A:78:LEU:HD23  | 2:A:176:RCY:H1M  | 0.73     | 1.59        | 91     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:C1P  | 0.73     | 0.73        | 92     | 1     |
| 2:A:110:RCY:O1H  | 2:A:110:RCY:H1CB | 0.73     | 1.83        | 59     | 6     |
| 1:A:63:ASP:C     | 2:A:160:RCY:H1ZB | 0.73     | 2.03        | 14     | 1     |
| 2:A:110:RCY:H1CB | 2:A:110:RCY:O1G  | 0.73     | 1.82        | 15     | 2     |
| 2:A:160:RCY:H1V  | 2:A:168:RCY:C1L  | 0.73     | 2.11        | 24     | 1     |
| 1:A:75:HIS:O     | 2:A:173:RCY:H1L  | 0.73     | 1.82        | 61     | 1     |
| 1:A:72:ALA:HB3   | 2:A:173:RCY:H1S  | 0.73     | 1.61        | 65     | 1     |
| 1:A:70:TRP:CE3   | 2:A:176:RCY:H1ZB | 0.73     | 2.19        | 85     | 1     |
| 2:A:138:RCY:C1V  | 2:A:187:RCY:H1YB | 0.73     | 2.14        | 11     | 1     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:N1V  | 0.73     | 2.51        | 14     | 1     |
| 1:A:71:GLU:CB    | 2:A:173:RCY:O1G  | 0.73     | 2.37        | 17     | 1     |
| 2:A:176:RCY:H1VA | 2:A:187:RCY:O1G  | 0.73     | 1.84        | 23     | 1     |
| 2:A:160:RCY:C1V  | 2:A:168:RCY:H1CB | 0.73     | 2.05        | 30     | 2     |
| 2:A:138:RCY:H1MA | 2:A:150:RCY:C1Q  | 0.73     | 2.14        | 41     | 1     |
| 2:A:160:RCY:C1U  | 2:A:168:RCY:H1V  | 0.73     | 2.01        | 48     | 1     |
| 2:A:168:RCY:C1U  | 2:A:173:RCY:H1VB | 0.73     | 2.12        | 48     | 1     |
| 1:A:73:CYS:HB3   | 2:A:168:RCY:C1V  | 0.73     | 2.12        | 57     | 1     |
| 1:A:59:GLY:H     | 2:A:138:RCY:H1S  | 0.73     | 1.42        | 73     | 1     |
| 1:A:66:VAL:CG1   | 2:A:121:RCY:C1X  | 0.73     | 2.67        | 83     | 2     |
| 2:A:168:RCY:H1VB | 2:A:168:RCY:C1L  | 0.73     | 2.13        | 7      | 1     |
| 1:A:62:THR:CG2   | 2:A:130:RCY:H1MA | 0.73     | 2.07        | 9      | 1     |
| 1:A:61:GLY:O     | 2:A:168:RCY:C1C  | 0.73     | 2.34        | 61     | 2     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:C1S  | 0.73     | 2.13        | 19     | 1     |
| 2:A:168:RCY:H1C  | 2:A:176:RCY:N1V  | 0.73     | 1.99        | 43     | 1     |
| 2:A:138:RCY:H1C  | 2:A:150:RCY:C1L  | 0.73     | 2.11        | 53     | 1     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:H1ZB | 0.73     | 2.06        | 57     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:C1P  | 0.73     | 2.67        | 74     | 3     |
| 1:A:70:TRP:CZ3   | 2:A:150:RCY:H1C  | 0.73     | 2.18        | 93     | 1     |
| 1:A:63:ASP:HB3   | 2:A:160:RCY:O1J  | 0.72     | 1.83        | 14     | 1     |
| 2:A:130:RCY:N1R  | 2:A:130:RCY:H1U  | 0.72     | 1.96        | 25     | 1     |
| 1:A:70:TRP:HA    | 2:A:173:RCY:C1V  | 0.72     | 2.14        | 26     | 1     |
| 1:A:62:THR:HB    | 2:A:160:RCY:N1V  | 0.72     | 1.80        | 46     | 1     |
| 1:A:70:TRP:O     | 2:A:176:RCY:C1C  | 0.72     | 2.37        | 62     | 1     |
| 2:A:160:RCY:H1YB | 2:A:168:RCY:H1ZA | 0.72     | 1.60        | 62     | 1     |
| 1:A:75:HIS:N     | 2:A:176:RCY:H1MA | 0.72     | 1.99        | 67     | 1     |
| 2:A:138:RCY:O1J  | 2:A:160:RCY:C1M  | 0.72     | 2.36        | 69     | 1     |
| 2:A:176:RCY:C1S  | 2:A:187:RCY:C1Z  | 0.72     | 2.67        | 80     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:150:RCY:H1VB | 2:A:176:RCY:C1P  | 0.72     | 2.14        | 82     | 1     |
| 2:A:176:RCY:C1M  | 2:A:187:RCY:H1S  | 0.72     | 1.99        | 92     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:173:RCY:O1G  | 0.72     | 2.42        | 93     | 1     |
| 1:A:68:CYS:SG    | 2:A:160:RCY:H1YB | 0.72     | 2.24        | 100    | 1     |
| 2:A:173:RCY:O1J  | 2:A:176:RCY:O1J  | 0.72     | 2.05        | 3      | 1     |
| 2:A:160:RCY:H1V  | 2:A:168:RCY:C1X  | 0.72     | 2.14        | 14     | 1     |
| 1:A:77:GLU:N     | 2:A:173:RCY:O1G  | 0.72     | 2.21        | 28     | 2     |
| 2:A:168:RCY:H1U  | 2:A:173:RCY:H1U  | 0.72     | 1.60        | 48     | 2     |
| 2:A:138:RCY:O1H  | 2:A:150:RCY:N1R  | 0.72     | 2.21        | 41     | 1     |
| 2:A:130:RCY:H1U  | 2:A:160:RCY:C1C  | 0.72     | 2.14        | 62     | 1     |
| 1:A:70:TRP:N     | 2:A:173:RCY:H1CA | 0.72     | 1.99        | 92     | 1     |
| 1:A:61:GLY:O     | 2:A:160:RCY:H1YA | 0.72     | 1.83        | 97     | 1     |
| 1:A:69:PRO:CA    | 2:A:173:RCY:H1VB | 0.72     | 2.15        | 100    | 1     |
| 2:A:138:RCY:C1X  | 2:A:187:RCY:H1C  | 0.72     | 2.13        | 5      | 1     |
| 2:A:130:RCY:N1V  | 2:A:160:RCY:C1S  | 0.72     | 2.40        | 8      | 1     |
| 1:A:76:CYS:O     | 2:A:176:RCY:H1LA | 0.72     | 1.84        | 17     | 1     |
| 1:A:60:CYS:C     | 2:A:130:RCY:O1H  | 0.72     | 2.27        | 18     | 1     |
| 2:A:150:RCY:H1C  | 2:A:168:RCY:O1J  | 0.72     | 1.81        | 19     | 1     |
| 2:A:150:RCY:O1G  | 2:A:187:RCY:H1Z  | 0.72     | 1.84        | 46     | 1     |
| 1:A:64:ILE:CD1   | 2:A:160:RCY:C1V  | 0.72     | 2.67        | 54     | 1     |
| 1:A:70:TRP:HB3   | 2:A:173:RCY:H1M  | 0.72     | 1.29        | 84     | 1     |
| 2:A:168:RCY:H1YB | 2:A:173:RCY:H1ZB | 0.72     | 1.60        | 100    | 1     |
| 1:A:72:ALA:HB3   | 2:A:173:RCY:H1L  | 0.72     | 0.81        | 10     | 2     |
| 2:A:168:RCY:C1P  | 2:A:173:RCY:C1C  | 0.72     | 2.67        | 21     | 1     |
| 1:A:77:GLU:HG2   | 2:A:173:RCY:O1G  | 0.72     | 1.84        | 28     | 1     |
| 2:A:160:RCY:H1M  | 2:A:168:RCY:H1CA | 0.72     | 1.58        | 94     | 2     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:H1VA | 0.72     | 2.15        | 71     | 2     |
| 2:A:138:RCY:O1J  | 2:A:160:RCY:H1M  | 0.72     | 1.85        | 69     | 1     |
| 1:A:76:CYS:HA    | 2:A:187:RCY:H1CA | 0.72     | 1.61        | 73     | 1     |
| 2:A:160:RCY:C1L  | 2:A:176:RCY:O1G  | 0.72     | 2.37        | 73     | 1     |
| 1:A:68:CYS:SG    | 2:A:150:RCY:C1Y  | 0.72     | 2.78        | 85     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:O1G  | 0.72     | 2.33        | 3      | 2     |
| 1:A:66:VAL:HB    | 2:A:150:RCY:H1MA | 0.72     | 1.61        | 31     | 1     |
| 2:A:168:RCY:H1ZB | 2:A:176:RCY:H1Y  | 0.72     | 1.61        | 35     | 1     |
| 1:A:70:TRP:HD1   | 2:A:173:RCY:H1CA | 0.72     | 0.91        | 64     | 1     |
| 1:A:71:GLU:O     | 2:A:168:RCY:H1C  | 0.72     | 1.84        | 86     | 1     |
| 2:A:138:RCY:O1G  | 2:A:187:RCY:C1V  | 0.72     | 2.38        | 5      | 1     |
| 2:A:130:RCY:H1Z  | 2:A:173:RCY:H1U  | 0.72     | 1.60        | 15     | 1     |
| 1:A:72:ALA:CB    | 2:A:173:RCY:C1Q  | 0.72     | 2.66        | 80     | 3     |
| 1:A:67:ILE:H     | 2:A:150:RCY:C1Y  | 0.72     | 1.98        | 31     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:150:RCY:C1S  | 0.72     | 2.59        | 33     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:69:PRO:HD2   | 2:A:160:RCY:C1C  | 0.72     | 2.15        | 35     | 2     |
| 2:A:176:RCY:C1U  | 2:A:187:RCY:O1J  | 0.72     | 2.38        | 91     | 1     |
| 1:A:69:PRO:HB2   | 2:A:187:RCY:H1CA | 0.72     | 1.59        | 7      | 1     |
| 1:A:69:PRO:CA    | 2:A:187:RCY:H1CA | 0.72     | 2.13        | 7      | 1     |
| 2:A:130:RCY:C1L  | 2:A:130:RCY:C1V  | 0.72     | 2.66        | 7      | 1     |
| 2:A:168:RCY:C1W  | 2:A:187:RCY:C1Y  | 0.72     | 2.68        | 7      | 2     |
| 2:A:176:RCY:H1VB | 2:A:187:RCY:C1L  | 0.72     | 2.15        | 15     | 1     |
| 2:A:121:RCY:H1CB | 2:A:121:RCY:O1G  | 0.72     | 1.85        | 20     | 3     |
| 1:A:62:THR:CB    | 2:A:138:RCY:C1Z  | 0.72     | 2.68        | 38     | 1     |
| 2:A:138:RCY:H1U  | 2:A:150:RCY:C1C  | 0.72     | 2.07        | 43     | 1     |
| 2:A:160:RCY:C1X  | 2:A:168:RCY:H1VB | 0.72     | 2.13        | 48     | 1     |
| 2:A:150:RCY:H1Y  | 2:A:187:RCY:N1R  | 0.72     | 2.00        | 59     | 1     |
| 2:A:138:RCY:H1M  | 2:A:150:RCY:H1U  | 0.72     | 1.61        | 60     | 1     |
| 2:A:173:RCY:H1Z  | 2:A:187:RCY:H1YA | 0.72     | 1.60        | 72     | 1     |
| 1:A:65:THR:N     | 2:A:168:RCY:C1L  | 0.72     | 2.52        | 97     | 1     |
| 2:A:110:RCY:N1V  | 2:A:121:RCY:C1Y  | 0.72     | 2.52        | 5      | 1     |
| 2:A:138:RCY:H1C  | 2:A:187:RCY:C1Y  | 0.72     | 2.12        | 99     | 3     |
| 2:A:138:RCY:H1ZB | 2:A:150:RCY:C1S  | 0.72     | 2.13        | 33     | 1     |
| 2:A:138:RCY:O1J  | 2:A:187:RCY:C1M  | 0.72     | 2.38        | 52     | 1     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:H1V  | 0.72     | 0.72        | 55     | 1     |
| 1:A:74:ASN:CA    | 2:A:176:RCY:H1U  | 0.72     | 2.10        | 67     | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:O1H  | 0.72     | 2.06        | 70     | 2     |
| 2:A:173:RCY:O1J  | 2:A:187:RCY:H1CB | 0.72     | 1.84        | 61     | 2     |
| 1:A:75:HIS:O     | 2:A:176:RCY:O1G  | 0.72     | 2.08        | 21     | 1     |
| 1:A:73:CYS:HA    | 2:A:173:RCY:C1Q  | 0.72     | 2.14        | 91     | 2     |
| 2:A:160:RCY:C1W  | 2:A:168:RCY:H1M  | 0.72     | 2.13        | 34     | 2     |
| 1:A:68:CYS:C     | 2:A:168:RCY:H1L  | 0.72     | 2.03        | 70     | 1     |
| 2:A:150:RCY:H1YA | 2:A:187:RCY:N1R  | 0.72     | 2.00        | 78     | 1     |
| 1:A:61:GLY:CA    | 2:A:138:RCY:H1VA | 0.72     | 2.15        | 7      | 1     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:H1VA | 0.72     | 1.60        | 11     | 1     |
| 2:A:150:RCY:H1V  | 2:A:160:RCY:C1Z  | 0.72     | 2.15        | 29     | 1     |
| 1:A:67:ILE:HG23  | 2:A:130:RCY:H1YB | 0.72     | 1.59        | 30     | 1     |
| 1:A:71:GLU:OE1   | 2:A:168:RCY:C1C  | 0.72     | 2.38        | 93     | 2     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:C1Q  | 0.72     | 2.63        | 58     | 1     |
| 2:A:173:RCY:H1YA | 2:A:176:RCY:H1MA | 0.72     | 1.56        | 99     | 1     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:N1R  | 0.71     | 2.53        | 12     | 1     |
| 2:A:138:RCY:O1G  | 2:A:150:RCY:O1H  | 0.71     | 2.08        | 23     | 2     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:H1VB | 0.71     | 2.12        | 45     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:160:RCY:H1C  | 0.71     | 2.20        | 48     | 1     |
| 2:A:150:RCY:C1V  | 2:A:187:RCY:C1Z  | 0.71     | 2.46        | 64     | 2     |
| 2:A:168:RCY:H1ZA | 2:A:173:RCY:C1Q  | 0.71     | 2.12        | 58     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:160:RCY:N1V  | 2:A:168:RCY:C1Y  | 0.71     | 2.53        | 78     | 1     |
| 1:A:67:ILE:HG23  | 2:A:168:RCY:C1U  | 0.71     | 2.14        | 83     | 1     |
| 1:A:78:LEU:CD2   | 2:A:176:RCY:C1Z  | 0.71     | 2.67        | 91     | 1     |
| 1:A:78:LEU:HD11  | 2:A:176:RCY:C1L  | 0.71     | 2.13        | 91     | 1     |
| 2:A:160:RCY:H1CA | 2:A:168:RCY:H1V  | 0.71     | 1.62        | 96     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:176:RCY:H1CB | 0.71     | 2.15        | 31     | 1     |
| 2:A:160:RCY:C1C  | 2:A:160:RCY:O1G  | 0.71     | 2.37        | 42     | 3     |
| 2:A:168:RCY:H1V  | 2:A:173:RCY:C1V  | 0.71     | 2.15        | 45     | 1     |
| 2:A:176:RCY:H1S  | 2:A:187:RCY:C1Z  | 0.71     | 2.14        | 80     | 1     |
| 1:A:71:GLU:CA    | 2:A:173:RCY:H1L  | 0.71     | 2.16        | 88     | 1     |
| 2:A:138:RCY:H1VA | 2:A:150:RCY:H1YA | 0.71     | 1.61        | 97     | 2     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:H1YB | 0.71     | 0.74        | 32     | 2     |
| 2:A:138:RCY:C1P  | 2:A:150:RCY:C1W  | 0.71     | 2.69        | 23     | 1     |
| 2:A:138:RCY:H1L  | 2:A:150:RCY:H1M  | 0.71     | 1.62        | 30     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:H1YB | 0.71     | 0.55        | 81     | 2     |
| 2:A:130:RCY:H1Z  | 2:A:160:RCY:O1G  | 0.71     | 1.85        | 43     | 1     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:H1C  | 0.71     | 1.62        | 67     | 2     |
| 1:A:69:PRO:HD3   | 2:A:168:RCY:C1S  | 0.71     | 2.02        | 75     | 1     |
| 2:A:150:RCY:H1MA | 2:A:187:RCY:C1Y  | 0.71     | 2.14        | 88     | 1     |
| 2:A:168:RCY:H1M  | 2:A:176:RCY:C1V  | 0.71     | 2.15        | 90     | 1     |
| 2:A:168:RCY:H1CA | 2:A:173:RCY:H1Y  | 0.71     | 1.61        | 10     | 1     |
| 1:A:75:HIS:H     | 2:A:176:RCY:H1CA | 0.71     | 1.39        | 20     | 1     |
| 1:A:76:CYS:SG    | 2:A:173:RCY:C1C  | 0.71     | 2.76        | 30     | 1     |
| 2:A:173:RCY:O1H  | 2:A:187:RCY:C1M  | 0.71     | 2.38        | 40     | 1     |
| 1:A:78:LEU:CD1   | 2:A:176:RCY:C1Q  | 0.71     | 2.61        | 56     | 2     |
| 2:A:173:RCY:C1P  | 2:A:187:RCY:C1V  | 0.71     | 2.67        | 92     | 1     |
| 1:A:71:GLU:HB3   | 2:A:173:RCY:C1M  | 0.71     | 2.14        | 11     | 1     |
| 2:A:138:RCY:O1J  | 2:A:187:RCY:H1YB | 0.71     | 1.85        | 88     | 3     |
| 1:A:63:ASP:O     | 2:A:160:RCY:O1G  | 0.71     | 2.08        | 5      | 1     |
| 1:A:66:VAL:HG23  | 1:A:67:ILE:N     | 0.71     | 2.01        | 83     | 4     |
| 1:A:66:VAL:O     | 2:A:176:RCY:C1Y  | 0.71     | 2.37        | 22     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:187:RCY:H1CB | 0.71     | 2.15        | 50     | 1     |
| 1:A:69:PRO:HB2   | 2:A:176:RCY:C1P  | 0.71     | 2.12        | 64     | 1     |
| 1:A:71:GLU:CD    | 2:A:173:RCY:C1C  | 0.71     | 2.44        | 89     | 1     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:C1W  | 0.71     | 2.65        | 1      | 1     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:C1V  | 0.71     | 2.63        | 10     | 1     |
| 2:A:150:RCY:C1V  | 2:A:168:RCY:C1Y  | 0.71     | 2.69        | 53     | 1     |
| 2:A:130:RCY:H1ZB | 2:A:160:RCY:H1LA | 0.71     | 1.50        | 61     | 1     |
| 1:A:65:THR:OG1   | 2:A:168:RCY:H1S  | 0.71     | 1.85        | 87     | 1     |
| 2:A:150:RCY:C1P  | 2:A:187:RCY:H1ZA | 0.71     | 2.15        | 8      | 1     |
| 1:A:64:ILE:HG23  | 1:A:64:ILE:O     | 0.71     | 1.84        | 18     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:64:ILE:CB    | 2:A:160:RCY:H1YB | 0.71     | 2.15        | 49     | 2     |
| 1:A:64:ILE:HG13  | 2:A:168:RCY:C1L  | 0.71     | 2.15        | 26     | 1     |
| 1:A:65:THR:CG2   | 2:A:160:RCY:H1CA | 0.71     | 2.10        | 31     | 1     |
| 1:A:71:GLU:HB2   | 2:A:173:RCY:C1V  | 0.71     | 2.16        | 33     | 2     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:H1L  | 0.71     | 1.62        | 35     | 1     |
| 2:A:138:RCY:H1MA | 2:A:150:RCY:N1R  | 0.71     | 1.63        | 41     | 1     |
| 2:A:138:RCY:H1VB | 2:A:138:RCY:C1P  | 0.71     | 2.15        | 54     | 4     |
| 1:A:70:TRP:CD1   | 2:A:173:RCY:O1J  | 0.71     | 2.43        | 50     | 1     |
| 2:A:173:RCY:H1LA | 2:A:187:RCY:H1Z  | 0.71     | 1.61        | 75     | 1     |
| 2:A:176:RCY:H1CA | 2:A:187:RCY:C1C  | 0.71     | 2.14        | 75     | 1     |
| 1:A:69:PRO:HD2   | 2:A:150:RCY:H1V  | 0.71     | 1.61        | 85     | 1     |
| 1:A:70:TRP:CG    | 2:A:173:RCY:H1ZA | 0.71     | 2.21        | 94     | 1     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:N1V  | 0.71     | 2.54        | 9      | 1     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:C1X  | 0.71     | 2.69        | 10     | 1     |
| 2:A:138:RCY:C1X  | 2:A:150:RCY:C1V  | 0.71     | 2.68        | 19     | 1     |
| 1:A:66:VAL:H     | 2:A:168:RCY:H1C  | 0.71     | 1.43        | 30     | 1     |
| 2:A:173:RCY:O1J  | 2:A:187:RCY:H1M  | 0.71     | 1.85        | 43     | 1     |
| 1:A:70:TRP:NE1   | 2:A:121:RCY:N1V  | 0.71     | 2.39        | 49     | 1     |
| 1:A:70:TRP:CH2   | 2:A:168:RCY:H1S  | 0.71     | 2.21        | 54     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:C1W  | 0.71     | 2.43        | 78     | 1     |
| 2:A:138:RCY:N1R  | 2:A:150:RCY:O1J  | 0.71     | 2.24        | 81     | 1     |
| 1:A:70:TRP:HA    | 2:A:173:RCY:C1Y  | 0.71     | 2.12        | 85     | 1     |
| 1:A:64:ILE:HG22  | 2:A:168:RCY:C1M  | 0.71     | 2.16        | 95     | 1     |
| 2:A:121:RCY:C1C  | 2:A:121:RCY:C1Q  | 0.71     | 2.68        | 35     | 6     |
| 2:A:168:RCY:C1Z  | 2:A:168:RCY:O1H  | 0.71     | 2.31        | 30     | 2     |
| 1:A:70:TRP:NE1   | 2:A:168:RCY:H1L  | 0.71     | 2.00        | 89     | 2     |
| 2:A:150:RCY:H1Z  | 2:A:187:RCY:H1Y  | 0.71     | 1.61        | 9      | 1     |
| 2:A:168:RCY:C1W  | 2:A:173:RCY:H1V  | 0.71     | 2.15        | 58     | 1     |
| 2:A:168:RCY:H1S  | 2:A:173:RCY:C1U  | 0.71     | 2.00        | 71     | 1     |
| 1:A:68:CYS:HB3   | 2:A:173:RCY:H1M  | 0.71     | 1.63        | 73     | 1     |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:H1CA | 0.71     | 1.62        | 78     | 2     |
| 2:A:168:RCY:C1Y  | 2:A:173:RCY:O1G  | 0.71     | 2.34        | 91     | 1     |
| 2:A:138:RCY:C1M  | 2:A:150:RCY:C1M  | 0.70     | 2.57        | 1      | 1     |
| 2:A:138:RCY:H1CB | 2:A:138:RCY:O1G  | 0.70     | 1.86        | 59     | 4     |
| 1:A:73:CYS:O     | 2:A:173:RCY:C1S  | 0.70     | 2.39        | 29     | 2     |
| 1:A:73:CYS:C     | 2:A:173:RCY:H1CA | 0.70     | 2.05        | 35     | 1     |
| 2:A:168:RCY:H1ZA | 2:A:176:RCY:H1ZB | 0.70     | 1.61        | 60     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:H1ZB | 0.70     | 2.06        | 60     | 1     |
| 2:A:168:RCY:C1P  | 2:A:173:RCY:H1CA | 0.70     | 2.16        | 60     | 1     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:H1LA | 0.70     | 2.15        | 88     | 1     |
| 2:A:130:RCY:H1M  | 2:A:173:RCY:C1Y  | 0.70     | 2.16        | 94     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:H1VA | 2:A:176:RCY:H1Z  | 0.70     | 1.62        | 3      | 1     |
| 1:A:64:ILE:O     | 1:A:65:THR:CB    | 0.70     | 2.39        | 76     | 14    |
| 2:A:138:RCY:H1ZA | 2:A:176:RCY:H1LA | 0.70     | 1.60        | 22     | 1     |
| 1:A:67:ILE:H     | 2:A:168:RCY:C1C  | 0.70     | 1.99        | 30     | 1     |
| 1:A:70:TRP:HE3   | 2:A:168:RCY:N1R  | 0.70     | 1.84        | 33     | 2     |
| 2:A:168:RCY:H1VB | 2:A:176:RCY:C1V  | 0.70     | 2.14        | 59     | 1     |
| 1:A:78:LEU:CD1   | 2:A:176:RCY:H1S  | 0.70     | 2.10        | 69     | 1     |
| 2:A:173:RCY:C1X  | 2:A:187:RCY:C1Y  | 0.70     | 2.69        | 70     | 1     |
| 1:A:70:TRP:CD2   | 2:A:176:RCY:H1M  | 0.70     | 2.22        | 80     | 1     |
| 1:A:70:TRP:H     | 2:A:176:RCY:H1YB | 0.70     | 0.85        | 80     | 1     |
| 1:A:75:HIS:CG    | 1:A:76:CYS:H     | 0.70     | 2.04        | 99     | 1     |
| 2:A:150:RCY:H1ZA | 2:A:187:RCY:H1VA | 0.70     | 1.59        | 26     | 1     |
| 2:A:160:RCY:C1U  | 2:A:168:RCY:C1S  | 0.70     | 2.55        | 34     | 1     |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:C1Z  | 0.70     | 1.96        | 35     | 2     |
| 2:A:173:RCY:H1M  | 2:A:176:RCY:O1G  | 0.70     | 1.87        | 38     | 1     |
| 2:A:168:RCY:H1YB | 2:A:173:RCY:C1V  | 0.70     | 1.37        | 45     | 1     |
| 2:A:138:RCY:H1ZA | 2:A:150:RCY:C1S  | 0.70     | 2.16        | 60     | 1     |
| 2:A:138:RCY:C1P  | 2:A:187:RCY:C1Y  | 0.70     | 2.66        | 63     | 1     |
| 1:A:67:ILE:CG2   | 2:A:138:RCY:O1H  | 0.70     | 2.31        | 72     | 1     |
| 1:A:71:GLU:HG2   | 2:A:173:RCY:C1Y  | 0.70     | 2.16        | 73     | 1     |
| 2:A:130:RCY:C1Z  | 2:A:130:RCY:N1V  | 0.70     | 2.52        | 79     | 1     |
| 2:A:176:RCY:H1VA | 2:A:187:RCY:C1Z  | 0.70     | 2.12        | 91     | 1     |
| 1:A:71:GLU:CD    | 2:A:176:RCY:H1VA | 0.70     | 2.06        | 92     | 1     |
| 2:A:138:RCY:H1C  | 2:A:150:RCY:H1V  | 0.70     | 0.74        | 54     | 2     |
| 2:A:168:RCY:C1V  | 2:A:176:RCY:H1MA | 0.70     | 2.09        | 20     | 1     |
| 1:A:70:TRP:CA    | 2:A:173:RCY:H1V  | 0.70     | 2.14        | 26     | 1     |
| 1:A:72:ALA:HB2   | 2:A:173:RCY:C1U  | 0.70     | 2.09        | 80     | 2     |
| 1:A:68:CYS:CA    | 2:A:173:RCY:O1J  | 0.70     | 2.38        | 59     | 2     |
| 2:A:150:RCY:H1ZA | 2:A:187:RCY:C1L  | 0.70     | 2.15        | 36     | 1     |
| 2:A:110:RCY:C1C  | 2:A:110:RCY:C1Q  | 0.70     | 2.68        | 50     | 4     |
| 2:A:168:RCY:C1U  | 2:A:176:RCY:H1C  | 0.70     | 2.17        | 40     | 1     |
| 2:A:173:RCY:H1YB | 2:A:187:RCY:C1S  | 0.70     | 2.16        | 45     | 1     |
| 1:A:77:GLU:HG2   | 2:A:176:RCY:O1G  | 0.70     | 1.84        | 55     | 1     |
| 2:A:173:RCY:C1Q  | 2:A:176:RCY:C1P  | 0.70     | 2.69        | 59     | 1     |
| 2:A:130:RCY:H1C  | 2:A:160:RCY:C1C  | 0.70     | 2.16        | 64     | 1     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:C1X  | 0.70     | 2.70        | 67     | 1     |
| 1:A:73:CYS:HB3   | 2:A:168:RCY:H1Z  | 0.70     | 1.19        | 99     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:C1Y  | 0.70     | 1.90        | 43     | 3     |
| 1:A:71:GLU:OE1   | 2:A:176:RCY:H1U  | 0.70     | 1.87        | 37     | 1     |
| 1:A:64:ILE:CG2   | 2:A:168:RCY:H1CA | 0.70     | 2.11        | 54     | 1     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:C1V  | 0.70     | 2.16        | 69     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:130:RCY:H1YA | 2:A:160:RCY:H1V  | 0.70     | 1.63        | 81     | 1     |
| 2:A:138:RCY:H1Y  | 2:A:187:RCY:C1V  | 0.70     | 2.17        | 86     | 1     |
| 2:A:187:RCY:C1C  | 2:A:187:RCY:C1P  | 0.70     | 2.70        | 71     | 4     |
| 2:A:138:RCY:H1Y  | 2:A:168:RCY:H1Y  | 0.70     | 1.61        | 7      | 1     |
| 2:A:160:RCY:O1H  | 2:A:160:RCY:H1CB | 0.70     | 1.86        | 44     | 5     |
| 1:A:70:TRP:CZ2   | 2:A:121:RCY:C1W  | 0.70     | 2.68        | 41     | 1     |
| 2:A:160:RCY:H1ZB | 2:A:168:RCY:H1Y  | 0.70     | 1.63        | 78     | 1     |
| 1:A:74:ASN:OD1   | 2:A:168:RCY:H1Y  | 0.70     | 1.86        | 91     | 1     |
| 2:A:138:RCY:H1Y  | 2:A:150:RCY:O1J  | 0.70     | 1.86        | 97     | 1     |
| 2:A:168:RCY:H1Z  | 2:A:187:RCY:H1ZB | 0.70     | 1.64        | 17     | 2     |
| 1:A:67:ILE:CG1   | 2:A:168:RCY:C1C  | 0.70     | 2.65        | 27     | 1     |
| 1:A:68:CYS:HB3   | 1:A:70:TRP:NE1   | 0.70     | 2.02        | 61     | 1     |
| 1:A:64:ILE:O     | 1:A:65:THR:C     | 0.70     | 2.30        | 28     | 38    |
| 2:A:168:RCY:C1P  | 2:A:173:RCY:H1ZA | 0.70     | 2.13        | 10     | 1     |
| 2:A:160:RCY:H1CB | 2:A:168:RCY:C1Q  | 0.70     | 2.15        | 11     | 1     |
| 2:A:138:RCY:O1J  | 2:A:187:RCY:H1C  | 0.70     | 1.86        | 26     | 1     |
| 2:A:168:RCY:C1U  | 2:A:176:RCY:H1VA | 0.70     | 2.16        | 40     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:160:RCY:C1Y  | 0.70     | 2.75        | 44     | 1     |
| 2:A:173:RCY:H1VB | 2:A:187:RCY:C1Y  | 0.70     | 2.16        | 67     | 1     |
| 2:A:138:RCY:N1R  | 2:A:138:RCY:H1MA | 0.70     | 1.99        | 79     | 1     |
| 2:A:138:RCY:O1G  | 2:A:150:RCY:C1S  | 0.70     | 2.40        | 81     | 1     |
| 1:A:71:GLU:CB    | 2:A:168:RCY:C1C  | 0.70     | 2.66        | 86     | 1     |
| 1:A:64:ILE:HD12  | 2:A:168:RCY:C1Q  | 0.70     | 2.13        | 12     | 2     |
| 1:A:64:ILE:O     | 1:A:64:ILE:CG1   | 0.70     | 2.39        | 73     | 7     |
| 1:A:68:CYS:SG    | 1:A:70:TRP:CD1   | 0.70     | 2.85        | 17     | 4     |
| 1:A:70:TRP:HD1   | 2:A:187:RCY:C1M  | 0.70     | 1.99        | 16     | 1     |
| 2:A:168:RCY:C1P  | 2:A:173:RCY:H1CB | 0.70     | 2.16        | 21     | 1     |
| 1:A:71:GLU:OE2   | 2:A:150:RCY:O1J  | 0.70     | 2.10        | 32     | 1     |
| 2:A:176:RCY:C1C  | 2:A:176:RCY:C1P  | 0.70     | 2.69        | 36     | 5     |
| 1:A:75:HIS:CG    | 2:A:168:RCY:H1ZB | 0.70     | 2.21        | 73     | 1     |
| 1:A:63:ASP:HB2   | 2:A:150:RCY:H1VB | 0.70     | 1.62        | 85     | 1     |
| 2:A:168:RCY:H1M  | 2:A:187:RCY:O1J  | 0.70     | 1.87        | 85     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:H1CB | 0.70     | 1.63        | 1      | 1     |
| 2:A:121:RCY:C1Q  | 2:A:121:RCY:C1C  | 0.70     | 2.70        | 7      | 5     |
| 2:A:176:RCY:C1C  | 2:A:176:RCY:C1Q  | 0.70     | 2.67        | 93     | 5     |
| 2:A:138:RCY:H1LA | 2:A:150:RCY:C1C  | 0.70     | 2.16        | 9      | 1     |
| 2:A:176:RCY:O1J  | 2:A:187:RCY:O1J  | 0.70     | 2.10        | 11     | 1     |
| 1:A:61:GLY:C     | 2:A:160:RCY:H1L  | 0.70     | 1.95        | 19     | 1     |
| 2:A:138:RCY:H1C  | 2:A:160:RCY:H1YA | 0.70     | 0.73        | 27     | 1     |
| 2:A:138:RCY:C1Q  | 2:A:176:RCY:H1V  | 0.70     | 2.17        | 29     | 1     |
| 1:A:65:THR:HG23  | 1:A:65:THR:O     | 0.70     | 1.84        | 59     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:67:ILE:CG1   | 2:A:168:RCY:C1U  | 0.70     | 2.48        | 83     | 1     |
| 1:A:74:ASN:CA    | 2:A:176:RCY:H1VA | 0.70     | 2.10        | 100    | 1     |
| 1:A:68:CYS:SG    | 2:A:160:RCY:C1C  | 0.69     | 2.76        | 3      | 1     |
| 1:A:69:PRO:HB2   | 2:A:168:RCY:C1C  | 0.69     | 2.16        | 3      | 1     |
| 1:A:76:CYS:HA    | 2:A:173:RCY:H1CB | 0.69     | 1.64        | 17     | 1     |
| 1:A:66:VAL:HA    | 2:A:160:RCY:C1V  | 0.69     | 2.14        | 21     | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:H1CB | 0.69     | 2.17        | 28     | 1     |
| 1:A:70:TRP:CH2   | 2:A:168:RCY:H1Y  | 0.69     | 2.22        | 41     | 1     |
| 2:A:160:RCY:N1V  | 2:A:168:RCY:O1G  | 0.69     | 2.25        | 48     | 1     |
| 2:A:121:RCY:C1V  | 2:A:168:RCY:C1Y  | 0.69     | 2.40        | 49     | 1     |
| 1:A:60:CYS:HB3   | 2:A:168:RCY:H1ZA | 0.69     | 1.64        | 52     | 1     |
| 2:A:173:RCY:H1CA | 2:A:176:RCY:C1V  | 0.69     | 2.09        | 63     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:176:RCY:H1Z  | 0.69     | 2.17        | 66     | 1     |
| 2:A:138:RCY:O1J  | 2:A:187:RCY:H1YA | 0.69     | 1.87        | 69     | 2     |
| 1:A:71:GLU:HG2   | 2:A:168:RCY:H1CA | 0.69     | 1.55        | 93     | 1     |
| 1:A:70:TRP:CH2   | 2:A:176:RCY:C1Y  | 0.69     | 2.75        | 94     | 1     |
| 2:A:150:RCY:H1ZA | 2:A:187:RCY:H1YA | 0.69     | 1.59        | 9      | 2     |
| 1:A:64:ILE:CG1   | 2:A:168:RCY:C1V  | 0.69     | 2.70        | 27     | 1     |
| 2:A:168:RCY:H1L  | 2:A:173:RCY:C1U  | 0.69     | 2.15        | 49     | 1     |
| 2:A:138:RCY:H1YB | 2:A:150:RCY:C1S  | 0.69     | 2.14        | 60     | 1     |
| 2:A:150:RCY:H1VB | 2:A:187:RCY:C1W  | 0.69     | 2.17        | 64     | 1     |
| 2:A:150:RCY:C1S  | 2:A:160:RCY:C1Y  | 0.69     | 2.46        | 85     | 1     |
| 2:A:168:RCY:H1ZB | 2:A:176:RCY:H1ZA | 0.69     | 1.64        | 6      | 1     |
| 2:A:130:RCY:H1M  | 2:A:160:RCY:C1L  | 0.69     | 2.17        | 18     | 1     |
| 2:A:130:RCY:H1Y  | 2:A:176:RCY:C1C  | 0.69     | 2.17        | 41     | 1     |
| 2:A:187:RCY:C1C  | 2:A:187:RCY:O1H  | 0.69     | 2.31        | 44     | 1     |
| 1:A:75:HIS:HA    | 2:A:168:RCY:O1J  | 0.69     | 1.84        | 57     | 1     |
| 1:A:67:ILE:HG13  | 2:A:168:RCY:H1V  | 0.69     | 1.62        | 83     | 1     |
| 1:A:71:GLU:O     | 2:A:173:RCY:C1P  | 0.69     | 2.40        | 94     | 1     |
| 2:A:168:RCY:H1VB | 2:A:176:RCY:H1Y  | 0.69     | 1.62        | 98     | 1     |
| 2:A:130:RCY:H1YA | 2:A:173:RCY:C1S  | 0.69     | 2.14        | 15     | 1     |
| 1:A:68:CYS:CB    | 2:A:160:RCY:H1YB | 0.69     | 2.11        | 19     | 1     |
| 2:A:138:RCY:C1C  | 2:A:187:RCY:C1W  | 0.69     | 2.54        | 21     | 1     |
| 1:A:67:ILE:HG21  | 2:A:130:RCY:C1W  | 0.69     | 2.16        | 30     | 1     |
| 2:A:160:RCY:O1H  | 2:A:160:RCY:H1VB | 0.69     | 1.88        | 62     | 3     |
| 2:A:138:RCY:O1J  | 2:A:150:RCY:H1Z  | 0.69     | 1.87        | 36     | 1     |
| 2:A:150:RCY:O1J  | 2:A:187:RCY:H1CB | 0.69     | 1.84        | 50     | 1     |
| 2:A:187:RCY:C1Q  | 2:A:187:RCY:C1C  | 0.69     | 2.70        | 70     | 3     |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:H1YA | 0.69     | 2.18        | 75     | 1     |
| 2:A:110:RCY:C1Z  | 2:A:110:RCY:O1G  | 0.69     | 2.39        | 81     | 1     |
| 2:A:150:RCY:C1V  | 2:A:187:RCY:H1S  | 0.69     | 2.15        | 87     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:138:RCY:H1YB | 2:A:150:RCY:C1C  | 0.69     | 2.04        | 97     | 1     |
| 1:A:60:CYS:C     | 2:A:160:RCY:C1L  | 0.69     | 2.61        | 2      | 2     |
| 1:A:69:PRO:CB    | 2:A:187:RCY:H1VB | 0.69     | 2.17        | 14     | 1     |
| 2:A:138:RCY:H1YA | 2:A:150:RCY:H1VB | 0.69     | 1.64        | 19     | 1     |
| 1:A:71:GLU:OE1   | 2:A:150:RCY:H1C  | 0.69     | 1.87        | 32     | 1     |
| 2:A:173:RCY:H1CB | 2:A:176:RCY:C1S  | 0.69     | 2.04        | 72     | 2     |
| 1:A:69:PRO:HD3   | 2:A:160:RCY:H1CA | 0.69     | 1.63        | 35     | 1     |
| 1:A:70:TRP:CE2   | 2:A:121:RCY:H1VA | 0.69     | 2.22        | 49     | 1     |
| 2:A:121:RCY:C1Y  | 2:A:187:RCY:O1G  | 0.69     | 2.41        | 62     | 1     |
| 1:A:74:ASN:CG    | 2:A:176:RCY:C1P  | 0.69     | 2.58        | 78     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:H1U  | 0.69     | 1.64        | 20     | 2     |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:H1MA | 0.69     | 1.64        | 4      | 1     |
| 2:A:168:RCY:C1S  | 2:A:173:RCY:H1Z  | 0.69     | 2.14        | 5      | 1     |
| 2:A:138:RCY:H1Y  | 2:A:187:RCY:H1V  | 0.69     | 1.61        | 86     | 2     |
| 1:A:64:ILE:C     | 2:A:168:RCY:H1L  | 0.69     | 2.08        | 26     | 1     |
| 2:A:173:RCY:H1M  | 2:A:187:RCY:H1YA | 0.69     | 0.69        | 31     | 1     |
| 2:A:130:RCY:C1Z  | 2:A:168:RCY:H1VA | 0.69     | 2.18        | 34     | 1     |
| 1:A:71:GLU:O     | 2:A:176:RCY:O1G  | 0.69     | 2.10        | 40     | 1     |
| 2:A:150:RCY:C1W  | 2:A:160:RCY:C1V  | 0.69     | 2.69        | 42     | 1     |
| 2:A:168:RCY:C1Q  | 2:A:168:RCY:C1C  | 0.69     | 2.70        | 98     | 2     |
| 2:A:138:RCY:H1Y  | 2:A:187:RCY:H1CB | 0.69     | 1.58        | 96     | 2     |
| 1:A:70:TRP:CE3   | 2:A:176:RCY:H1C  | 0.69     | 2.16        | 77     | 1     |
| 1:A:66:VAL:O     | 2:A:168:RCY:H1SA | 0.69     | 1.88        | 79     | 1     |
| 1:A:71:GLU:HB2   | 2:A:168:RCY:C1Q  | 0.69     | 2.18        | 93     | 1     |
| 1:A:69:PRO:HG2   | 2:A:168:RCY:C1L  | 0.69     | 2.17        | 7      | 1     |
| 1:A:77:GLU:OE2   | 2:A:176:RCY:H1VB | 0.69     | 1.80        | 7      | 1     |
| 2:A:150:RCY:C1V  | 2:A:160:RCY:C1Z  | 0.69     | 2.70        | 29     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:187:RCY:C1M  | 0.69     | 2.69        | 49     | 2     |
| 2:A:160:RCY:H1YA | 2:A:168:RCY:C1Z  | 0.69     | 2.17        | 62     | 1     |
| 2:A:138:RCY:C1V  | 2:A:160:RCY:C1Z  | 0.69     | 2.65        | 64     | 1     |
| 2:A:138:RCY:C1U  | 2:A:150:RCY:C1M  | 0.69     | 2.32        | 75     | 1     |
| 1:A:63:ASP:O     | 2:A:160:RCY:C1W  | 0.69     | 2.40        | 78     | 1     |
| 1:A:63:ASP:CB    | 2:A:150:RCY:C1V  | 0.69     | 2.65        | 85     | 1     |
| 1:A:75:HIS:CG    | 1:A:76:CYS:N     | 0.69     | 2.60        | 99     | 3     |
| 2:A:176:RCY:H1ZB | 2:A:176:RCY:C1Q  | 0.69     | 2.15        | 27     | 7     |
| 2:A:160:RCY:H1V  | 2:A:168:RCY:O1J  | 0.69     | 1.88        | 14     | 1     |
| 2:A:187:RCY:C1C  | 2:A:187:RCY:C1Q  | 0.69     | 2.69        | 18     | 2     |
| 1:A:68:CYS:HB3   | 2:A:160:RCY:H1YB | 0.69     | 1.65        | 19     | 2     |
| 2:A:130:RCY:C1Q  | 2:A:130:RCY:C1C  | 0.69     | 2.70        | 37     | 5     |
| 1:A:70:TRP:CD1   | 1:A:70:TRP:N     | 0.69     | 2.60        | 55     | 13    |
| 1:A:68:CYS:SG    | 1:A:69:PRO:HD2   | 0.69     | 2.28        | 30     | 5     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:73:CYS:H     | 2:A:173:RCY:H1S  | 0.69     | 1.48        | 61     | 2     |
| 2:A:168:RCY:O1H  | 2:A:173:RCY:H1ZB | 0.69     | 1.86        | 26     | 1     |
| 1:A:71:GLU:CD    | 2:A:176:RCY:C1C  | 0.69     | 2.36        | 37     | 2     |
| 1:A:76:CYS:SG    | 2:A:173:RCY:H1Y  | 0.69     | 2.27        | 42     | 1     |
| 2:A:168:RCY:H1CB | 2:A:173:RCY:C1P  | 0.69     | 2.17        | 48     | 1     |
| 1:A:70:TRP:CH2   | 2:A:168:RCY:C1Y  | 0.69     | 2.66        | 49     | 1     |
| 1:A:69:PRO:CB    | 2:A:187:RCY:H1ZB | 0.69     | 2.13        | 54     | 1     |
| 1:A:71:GLU:OE1   | 2:A:160:RCY:H1CB | 0.69     | 1.88        | 58     | 1     |
| 2:A:168:RCY:C1M  | 2:A:176:RCY:C1Z  | 0.69     | 2.54        | 64     | 1     |
| 1:A:67:ILE:HD13  | 2:A:168:RCY:O1G  | 0.69     | 1.87        | 76     | 1     |
| 1:A:76:CYS:HG    | 2:A:176:RCY:H1S  | 0.69     | 1.46        | 79     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:C1W  | 0.69     | 2.57        | 84     | 1     |
| 1:A:70:TRP:CD1   | 2:A:187:RCY:H1YB | 0.69     | 2.15        | 92     | 1     |
| 2:A:176:RCY:C1U  | 2:A:187:RCY:H1MA | 0.69     | 2.16        | 96     | 1     |
| 1:A:68:CYS:O     | 1:A:70:TRP:N     | 0.69     | 2.26        | 69     | 31    |
| 1:A:68:CYS:O     | 1:A:71:GLU:N     | 0.69     | 2.26        | 90     | 16    |
| 2:A:150:RCY:N1R  | 2:A:187:RCY:H1ZA | 0.69     | 2.01        | 8      | 1     |
| 2:A:138:RCY:C1V  | 2:A:176:RCY:C1C  | 0.69     | 2.49        | 9      | 1     |
| 2:A:150:RCY:C1C  | 2:A:150:RCY:C1Q  | 0.69     | 2.69        | 93     | 3     |
| 2:A:130:RCY:C1W  | 2:A:160:RCY:C1P  | 0.69     | 2.70        | 61     | 2     |
| 2:A:173:RCY:H1YB | 2:A:176:RCY:H1CA | 0.69     | 1.62        | 86     | 2     |
| 2:A:138:RCY:C1W  | 2:A:150:RCY:C1P  | 0.69     | 2.71        | 1      | 1     |
| 2:A:173:RCY:C1C  | 2:A:173:RCY:C1Q  | 0.69     | 2.69        | 7      | 7     |
| 2:A:168:RCY:C1C  | 2:A:173:RCY:O1H  | 0.69     | 2.41        | 8      | 1     |
| 2:A:168:RCY:C1Y  | 2:A:176:RCY:C1L  | 0.69     | 2.67        | 20     | 1     |
| 1:A:70:TRP:O     | 2:A:173:RCY:O1H  | 0.69     | 2.10        | 68     | 1     |
| 2:A:138:RCY:O1J  | 2:A:150:RCY:C1U  | 0.69     | 2.41        | 88     | 1     |
| 2:A:150:RCY:H1ZB | 2:A:187:RCY:C1W  | 0.69     | 2.18        | 88     | 1     |
| 2:A:138:RCY:H1L  | 2:A:150:RCY:C1C  | 0.69     | 2.18        | 94     | 1     |
| 1:A:64:ILE:CG2   | 2:A:160:RCY:H1ZA | 0.68     | 2.17        | 1      | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:C1W  | 0.68     | 2.66        | 32     | 2     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:H1V  | 0.68     | 2.18        | 10     | 1     |
| 2:A:138:RCY:H1VA | 2:A:150:RCY:H1MA | 0.68     | 1.64        | 26     | 1     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:H1ZB | 0.68     | 2.15        | 27     | 2     |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:O1J  | 0.68     | 2.42        | 31     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:168:RCY:H1YA | 0.68     | 2.22        | 49     | 1     |
| 1:A:68:CYS:CA    | 2:A:168:RCY:C1Q  | 0.68     | 2.57        | 87     | 4     |
| 2:A:150:RCY:N1V  | 2:A:187:RCY:C1M  | 0.68     | 2.53        | 59     | 1     |
| 2:A:138:RCY:C1Q  | 2:A:150:RCY:C1Q  | 0.68     | 2.71        | 62     | 1     |
| 1:A:75:HIS:CB    | 2:A:176:RCY:C1C  | 0.68     | 2.71        | 84     | 1     |
| 1:A:67:ILE:CG1   | 2:A:160:RCY:H1C  | 0.68     | 2.14        | 86     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:H1Z  | 2:A:187:RCY:C1S  | 0.68     | 1.84        | 100    | 2     |
| 2:A:176:RCY:H1ZB | 2:A:187:RCY:H1U  | 0.68     | 1.65        | 17     | 1     |
| 2:A:150:RCY:H1Y  | 2:A:168:RCY:O1H  | 0.68     | 1.89        | 31     | 1     |
| 2:A:173:RCY:O1G  | 2:A:176:RCY:H1CB | 0.68     | 1.73        | 64     | 1     |
| 2:A:168:RCY:H1S  | 2:A:176:RCY:C1V  | 0.68     | 2.17        | 71     | 1     |
| 1:A:64:ILE:CD1   | 1:A:64:ILE:N     | 0.68     | 2.56        | 76     | 1     |
| 1:A:60:CYS:O     | 2:A:160:RCY:C1P  | 0.68     | 2.41        | 2      | 2     |
| 2:A:130:RCY:C1C  | 2:A:160:RCY:N1R  | 0.68     | 2.55        | 7      | 1     |
| 2:A:138:RCY:O1H  | 2:A:176:RCY:C1V  | 0.68     | 2.41        | 29     | 1     |
| 1:A:76:CYS:HB3   | 2:A:187:RCY:C1C  | 0.68     | 1.96        | 34     | 1     |
| 1:A:64:ILE:HD12  | 1:A:67:ILE:O     | 0.68     | 1.88        | 67     | 2     |
| 1:A:59:GLY:C     | 2:A:160:RCY:C1V  | 0.68     | 2.61        | 83     | 2     |
| 2:A:138:RCY:H1YB | 2:A:187:RCY:C1Z  | 0.68     | 2.17        | 89     | 1     |
| 2:A:150:RCY:H1V  | 2:A:187:RCY:H1U  | 0.68     | 1.64        | 38     | 1     |
| 1:A:68:CYS:O     | 2:A:173:RCY:O1J  | 0.68     | 2.07        | 50     | 1     |
| 2:A:138:RCY:H1ZB | 2:A:187:RCY:H1ZA | 0.68     | 1.58        | 77     | 1     |
| 2:A:173:RCY:C1V  | 2:A:187:RCY:O1G  | 0.68     | 2.40        | 93     | 2     |
| 1:A:70:TRP:O     | 2:A:173:RCY:C1Z  | 0.68     | 2.42        | 94     | 1     |
| 1:A:62:THR:HG23  | 2:A:130:RCY:C1U  | 0.68     | 2.18        | 18     | 1     |
| 2:A:138:RCY:O1J  | 2:A:160:RCY:C1U  | 0.68     | 2.32        | 18     | 1     |
| 2:A:150:RCY:H1YB | 2:A:187:RCY:C1Z  | 0.68     | 2.19        | 21     | 1     |
| 1:A:64:ILE:HD11  | 2:A:160:RCY:C1V  | 0.68     | 2.18        | 54     | 1     |
| 1:A:74:ASN:O     | 2:A:187:RCY:O1J  | 0.68     | 2.11        | 56     | 1     |
| 1:A:73:CYS:CB    | 2:A:173:RCY:H1SA | 0.68     | 2.18        | 79     | 1     |
| 1:A:60:CYS:N     | 2:A:160:RCY:C1Q  | 0.68     | 2.57        | 83     | 3     |
| 1:A:69:PRO:CG    | 2:A:168:RCY:C1C  | 0.68     | 2.53        | 8      | 1     |
| 2:A:176:RCY:H1MA | 2:A:187:RCY:C1V  | 0.68     | 2.19        | 10     | 1     |
| 1:A:60:CYS:O     | 2:A:130:RCY:C1U  | 0.68     | 2.41        | 18     | 1     |
| 2:A:150:RCY:C1C  | 2:A:173:RCY:C1V  | 0.68     | 2.71        | 31     | 1     |
| 1:A:70:TRP:CD2   | 2:A:168:RCY:O1G  | 0.68     | 2.43        | 94     | 2     |
| 2:A:138:RCY:C1S  | 2:A:150:RCY:H1U  | 0.68     | 2.18        | 67     | 1     |
| 1:A:72:ALA:H     | 2:A:173:RCY:H1MA | 0.68     | 1.42        | 78     | 1     |
| 2:A:168:RCY:H1VB | 2:A:176:RCY:H1YA | 0.68     | 1.66        | 98     | 1     |
| 2:A:168:RCY:H1Y  | 2:A:173:RCY:H1ZB | 0.68     | 0.69        | 20     | 1     |
| 2:A:160:RCY:N1V  | 2:A:168:RCY:H1YB | 0.68     | 2.03        | 21     | 1     |
| 2:A:121:RCY:H1C  | 2:A:168:RCY:C1C  | 0.68     | 2.19        | 27     | 1     |
| 1:A:59:GLY:HA3   | 2:A:160:RCY:H1L  | 0.68     | 1.66        | 45     | 1     |
| 1:A:70:TRP:NE1   | 2:A:176:RCY:C1C  | 0.68     | 2.46        | 62     | 1     |
| 2:A:150:RCY:H1U  | 2:A:168:RCY:C1V  | 0.68     | 2.18        | 74     | 1     |
| 1:A:70:TRP:CD1   | 2:A:173:RCY:C1M  | 0.68     | 2.77        | 84     | 1     |
| 1:A:63:ASP:C     | 2:A:150:RCY:H1VB | 0.68     | 2.09        | 85     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:138:RCY:H1YA | 2:A:187:RCY:N1V  | 0.68     | 2.03        | 86     | 1     |
| 1:A:70:TRP:NE1   | 2:A:168:RCY:C1L  | 0.68     | 2.56        | 89     | 1     |
| 1:A:65:THR:HG21  | 2:A:160:RCY:H1ZB | 0.68     | 1.61        | 100    | 1     |
| 2:A:130:RCY:O1H  | 2:A:130:RCY:H1CB | 0.68     | 1.87        | 34     | 6     |
| 2:A:173:RCY:C1Q  | 2:A:173:RCY:H1CA | 0.68     | 2.18        | 95     | 4     |
| 1:A:61:GLY:O     | 2:A:160:RCY:H1LA | 0.68     | 1.83        | 19     | 1     |
| 1:A:76:CYS:N     | 2:A:173:RCY:O1G  | 0.68     | 2.26        | 33     | 1     |
| 1:A:65:THR:HG21  | 2:A:160:RCY:H1MA | 0.68     | 1.66        | 36     | 2     |
| 1:A:68:CYS:SG    | 1:A:70:TRP:NE1   | 0.68     | 2.67        | 40     | 1     |
| 2:A:160:RCY:H1C  | 2:A:168:RCY:C1V  | 0.68     | 2.16        | 44     | 1     |
| 1:A:59:GLY:N     | 2:A:138:RCY:C1Q  | 0.68     | 2.52        | 73     | 1     |
| 1:A:70:TRP:CD1   | 2:A:173:RCY:H1Z  | 0.68     | 2.24        | 76     | 1     |
| 1:A:60:CYS:H     | 2:A:160:RCY:C1Z  | 0.68     | 2.02        | 91     | 1     |
| 1:A:61:GLY:H     | 2:A:138:RCY:C1V  | 0.68     | 2.01        | 7      | 1     |
| 1:A:63:ASP:O     | 1:A:65:THR:N     | 0.68     | 2.27        | 88     | 9     |
| 2:A:168:RCY:H1U  | 2:A:176:RCY:H1VB | 0.68     | 1.64        | 37     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:187:RCY:C1Y  | 0.68     | 2.19        | 72     | 1     |
| 1:A:63:ASP:CB    | 2:A:150:RCY:C1Z  | 0.68     | 2.71        | 80     | 1     |
| 2:A:176:RCY:H1S  | 2:A:187:RCY:H1Y  | 0.68     | 1.65        | 80     | 1     |
| 1:A:66:VAL:CG1   | 2:A:121:RCY:C1M  | 0.68     | 2.71        | 83     | 1     |
| 1:A:63:ASP:CG    | 2:A:150:RCY:C1P  | 0.68     | 2.51        | 85     | 1     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:C1W  | 0.68     | 2.19        | 9      | 1     |
| 1:A:74:ASN:HA    | 2:A:173:RCY:N1R  | 0.68     | 1.21        | 22     | 1     |
| 1:A:74:ASN:CB    | 2:A:173:RCY:O1G  | 0.68     | 2.42        | 27     | 1     |
| 2:A:168:RCY:H1CA | 2:A:168:RCY:O1G  | 0.68     | 1.89        | 36     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:168:RCY:H1S  | 0.68     | 2.23        | 54     | 1     |
| 2:A:160:RCY:C1P  | 2:A:168:RCY:C1V  | 0.68     | 2.70        | 60     | 1     |
| 1:A:70:TRP:CB    | 2:A:176:RCY:C1Y  | 0.68     | 2.70        | 64     | 1     |
| 1:A:69:PRO:HG3   | 2:A:173:RCY:H1Z  | 0.68     | 1.65        | 72     | 1     |
| 1:A:76:CYS:CB    | 2:A:160:RCY:C1Y  | 0.68     | 2.70        | 73     | 1     |
| 2:A:138:RCY:O1J  | 2:A:168:RCY:O1J  | 0.68     | 2.12        | 82     | 1     |
| 2:A:150:RCY:C1Q  | 2:A:150:RCY:H1VB | 0.67     | 2.20        | 33     | 2     |
| 2:A:176:RCY:H1VB | 2:A:187:RCY:H1VB | 0.67     | 0.74        | 33     | 1     |
| 1:A:60:CYS:SG    | 1:A:60:CYS:O     | 0.67     | 2.52        | 94     | 4     |
| 2:A:130:RCY:H1Z  | 2:A:160:RCY:C1P  | 0.67     | 2.19        | 43     | 1     |
| 2:A:168:RCY:O1H  | 2:A:168:RCY:C1Z  | 0.67     | 2.40        | 52     | 3     |
| 1:A:64:ILE:HG12  | 2:A:160:RCY:H1CA | 0.67     | 0.72        | 48     | 1     |
| 1:A:68:CYS:C     | 2:A:173:RCY:O1J  | 0.67     | 2.32        | 50     | 2     |
| 1:A:67:ILE:HG21  | 2:A:173:RCY:C1Z  | 0.67     | 2.18        | 80     | 1     |
| 1:A:63:ASP:CA    | 2:A:150:RCY:H1VB | 0.67     | 2.19        | 85     | 1     |
| 1:A:60:CYS:CB    | 2:A:168:RCY:H1CA | 0.67     | 1.98        | 95     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:H1ZA | 2:A:176:RCY:C1C  | 0.67     | 2.18        | 31     | 1     |
| 2:A:110:RCY:H1Z  | 2:A:121:RCY:N1V  | 0.67     | 2.04        | 33     | 1     |
| 2:A:138:RCY:H1V  | 2:A:187:RCY:C1Z  | 0.67     | 2.10        | 49     | 2     |
| 2:A:168:RCY:H1C  | 2:A:173:RCY:H1Y  | 0.67     | 1.66        | 53     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:160:RCY:H1M  | 0.67     | 2.06        | 61     | 1     |
| 1:A:70:TRP:HE3   | 2:A:150:RCY:O1G  | 0.67     | 1.68        | 75     | 1     |
| 2:A:168:RCY:H1VA | 2:A:176:RCY:H1YA | 0.67     | 0.70        | 76     | 1     |
| 2:A:138:RCY:H1CB | 2:A:150:RCY:O1H  | 0.67     | 1.89        | 82     | 1     |
| 1:A:71:GLU:CD    | 2:A:173:RCY:C1L  | 0.67     | 2.60        | 88     | 1     |
| 2:A:130:RCY:H1YA | 2:A:160:RCY:N1R  | 0.67     | 2.04        | 88     | 1     |
| 1:A:70:TRP:HB3   | 2:A:173:RCY:C1Y  | 0.67     | 2.20        | 94     | 1     |
| 1:A:60:CYS:C     | 2:A:160:RCY:C1Q  | 0.67     | 2.63        | 2      | 2     |
| 1:A:66:VAL:HG12  | 2:A:121:RCY:C1U  | 0.67     | 2.19        | 4      | 1     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:O1J  | 0.67     | 1.90        | 39     | 1     |
| 1:A:76:CYS:CB    | 2:A:173:RCY:O1J  | 0.67     | 2.42        | 42     | 1     |
| 1:A:70:TRP:CH2   | 2:A:160:RCY:C1Q  | 0.67     | 2.76        | 58     | 1     |
| 2:A:173:RCY:N1R  | 2:A:176:RCY:C1M  | 0.67     | 2.47        | 67     | 1     |
| 2:A:168:RCY:C1L  | 2:A:173:RCY:H1VB | 0.67     | 2.04        | 80     | 1     |
| 2:A:138:RCY:H1ZB | 2:A:138:RCY:C1Q  | 0.67     | 2.15        | 40     | 7     |
| 2:A:168:RCY:H1V  | 2:A:173:RCY:H1MA | 0.67     | 1.54        | 29     | 1     |
| 1:A:75:HIS:CA    | 2:A:168:RCY:O1J  | 0.67     | 2.42        | 57     | 1     |
| 1:A:63:ASP:OD2   | 2:A:160:RCY:C1M  | 0.67     | 2.43        | 73     | 1     |
| 1:A:64:ILE:CD1   | 2:A:187:RCY:H1YA | 0.67     | 2.18        | 85     | 1     |
| 2:A:121:RCY:C1P  | 2:A:121:RCY:H1CA | 0.67     | 2.20        | 96     | 4     |
| 1:A:71:GLU:OE1   | 2:A:110:RCY:C1P  | 0.67     | 2.42        | 5      | 1     |
| 2:A:110:RCY:C1Q  | 2:A:110:RCY:C1C  | 0.67     | 2.71        | 32     | 3     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:C1V  | 0.67     | 2.72        | 77     | 2     |
| 1:A:64:ILE:HD12  | 1:A:68:CYS:SG    | 0.67     | 2.28        | 39     | 1     |
| 2:A:173:RCY:C1X  | 2:A:187:RCY:H1C  | 0.67     | 2.19        | 55     | 1     |
| 1:A:69:PRO:CD    | 2:A:168:RCY:H1CB | 0.67     | 2.19        | 8      | 1     |
| 1:A:61:GLY:O     | 1:A:62:THR:HG23  | 0.67     | 1.89        | 60     | 2     |
| 1:A:74:ASN:N     | 2:A:173:RCY:H1S  | 0.67     | 2.04        | 90     | 2     |
| 1:A:69:PRO:CG    | 2:A:168:RCY:C1W  | 0.67     | 2.43        | 66     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:176:RCY:H1ZB | 0.67     | 2.14        | 66     | 1     |
| 1:A:66:VAL:O     | 2:A:168:RCY:C1S  | 0.67     | 2.42        | 79     | 1     |
| 2:A:150:RCY:H1VB | 2:A:187:RCY:C1L  | 0.67     | 2.19        | 87     | 1     |
| 1:A:71:GLU:C     | 2:A:173:RCY:H1L  | 0.67     | 2.10        | 88     | 1     |
| 2:A:173:RCY:H1ZA | 2:A:187:RCY:C1P  | 0.67     | 0.76        | 92     | 1     |
| 1:A:76:CYS:CA    | 2:A:176:RCY:H1L  | 0.67     | 2.10        | 5      | 1     |
| 1:A:63:ASP:OD1   | 2:A:160:RCY:C1C  | 0.67     | 2.30        | 14     | 3     |
| 1:A:76:CYS:SG    | 1:A:77:GLU:N     | 0.67     | 2.68        | 72     | 7     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:77:GLU:CB    | 2:A:173:RCY:O1G  | 0.67     | 2.43        | 28     | 1     |
| 2:A:110:RCY:C1W  | 2:A:121:RCY:O1J  | 0.67     | 2.42        | 33     | 1     |
| 1:A:75:HIS:HB3   | 2:A:176:RCY:O1J  | 0.67     | 1.89        | 84     | 1     |
| 1:A:60:CYS:H     | 2:A:160:RCY:H1ZB | 0.67     | 1.48        | 91     | 1     |
| 1:A:60:CYS:C     | 2:A:130:RCY:C1Q  | 0.67     | 2.61        | 18     | 1     |
| 1:A:70:TRP:HB3   | 2:A:168:RCY:C1S  | 0.67     | 2.17        | 19     | 1     |
| 2:A:176:RCY:O1G  | 2:A:187:RCY:C1Z  | 0.67     | 2.41        | 36     | 2     |
| 2:A:168:RCY:H1Y  | 2:A:173:RCY:H1V  | 0.67     | 0.67        | 45     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:168:RCY:C1L  | 0.67     | 2.77        | 71     | 2     |
| 2:A:160:RCY:C1P  | 2:A:168:RCY:C1C  | 0.67     | 2.72        | 64     | 1     |
| 2:A:168:RCY:H1M  | 2:A:176:RCY:H1YB | 0.67     | 1.67        | 98     | 1     |
| 2:A:168:RCY:H1MA | 2:A:176:RCY:H1YA | 0.67     | 1.67        | 14     | 1     |
| 1:A:76:CYS:CB    | 2:A:187:RCY:C1C  | 0.67     | 2.43        | 34     | 1     |
| 1:A:65:THR:OG1   | 2:A:150:RCY:H1LA | 0.67     | 1.88        | 50     | 1     |
| 2:A:173:RCY:C1Q  | 2:A:176:RCY:N1V  | 0.67     | 2.47        | 52     | 1     |
| 2:A:173:RCY:H1YB | 2:A:176:RCY:C1Y  | 0.67     | 2.19        | 59     | 1     |
| 1:A:64:ILE:HD12  | 1:A:64:ILE:N     | 0.67     | 2.03        | 72     | 1     |
| 1:A:78:LEU:CD2   | 2:A:187:RCY:N1V  | 0.67     | 2.58        | 91     | 1     |
| 1:A:61:GLY:O     | 2:A:160:RCY:C1C  | 0.67     | 2.43        | 11     | 1     |
| 1:A:64:ILE:O     | 2:A:168:RCY:C1L  | 0.67     | 2.42        | 26     | 2     |
| 1:A:59:GLY:O     | 2:A:160:RCY:C1Q  | 0.67     | 2.43        | 20     | 2     |
| 1:A:71:GLU:HB2   | 2:A:168:RCY:N1R  | 0.67     | 2.05        | 37     | 1     |
| 2:A:168:RCY:H1V  | 2:A:187:RCY:C1Y  | 0.67     | 2.17        | 40     | 1     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:C1L  | 0.67     | 2.78        | 46     | 1     |
| 1:A:75:HIS:NE2   | 2:A:168:RCY:C1Z  | 0.67     | 2.58        | 73     | 1     |
| 2:A:130:RCY:H1Y  | 2:A:160:RCY:O1H  | 0.67     | 1.70        | 75     | 1     |
| 1:A:73:CYS:SG    | 2:A:176:RCY:C1P  | 0.67     | 2.83        | 76     | 1     |
| 2:A:168:RCY:H1YA | 2:A:176:RCY:C1X  | 0.67     | 2.18        | 90     | 1     |
| 2:A:138:RCY:C1P  | 2:A:138:RCY:H1CA | 0.66     | 2.20        | 56     | 5     |
| 2:A:138:RCY:C1C  | 2:A:138:RCY:C1P  | 0.66     | 2.73        | 57     | 9     |
| 1:A:78:LEU:N     | 1:A:78:LEU:HD13  | 0.66     | 2.05        | 44     | 3     |
| 1:A:70:TRP:CB    | 2:A:168:RCY:C1C  | 0.66     | 2.61        | 20     | 1     |
| 1:A:64:ILE:HD11  | 2:A:168:RCY:H1V  | 0.66     | 0.74        | 27     | 1     |
| 2:A:150:RCY:C1V  | 2:A:173:RCY:C1Y  | 0.66     | 2.73        | 39     | 1     |
| 1:A:75:HIS:O     | 2:A:176:RCY:H1LA | 0.66     | 1.90        | 61     | 2     |
| 1:A:71:GLU:HB2   | 2:A:176:RCY:H1VB | 0.66     | 1.66        | 49     | 1     |
| 2:A:121:RCY:C1Q  | 2:A:121:RCY:H1CA | 0.66     | 2.20        | 60     | 1     |
| 2:A:130:RCY:H1V  | 2:A:160:RCY:O1J  | 0.66     | 1.88        | 64     | 1     |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:H1ZA | 0.66     | 1.64        | 76     | 1     |
| 2:A:160:RCY:N1V  | 2:A:168:RCY:N1V  | 0.66     | 2.40        | 78     | 1     |
| 1:A:73:CYS:H     | 2:A:173:RCY:C1P  | 0.66     | 2.03        | 82     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:66:VAL:HG12  | 2:A:121:RCY:N1V  | 0.66     | 2.06        | 83     | 1     |
| 2:A:150:RCY:C1L  | 2:A:160:RCY:H1YB | 0.66     | 2.21        | 85     | 1     |
| 2:A:168:RCY:H1VA | 2:A:176:RCY:C1C  | 0.66     | 2.20        | 85     | 1     |
| 2:A:168:RCY:O1J  | 2:A:187:RCY:O1G  | 0.66     | 2.13        | 96     | 1     |
| 1:A:66:VAL:CG1   | 2:A:121:RCY:H1U  | 0.66     | 2.21        | 4      | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:C1Z  | 0.66     | 2.67        | 59     | 2     |
| 2:A:130:RCY:N1V  | 2:A:160:RCY:O1G  | 0.66     | 2.25        | 22     | 2     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:H1ZB | 0.66     | 2.24        | 41     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:173:RCY:C1V  | 0.66     | 0.66        | 45     | 2     |
| 1:A:69:PRO:HD3   | 2:A:168:RCY:H1L  | 0.66     | 1.63        | 60     | 1     |
| 1:A:68:CYS:N     | 2:A:173:RCY:H1ZA | 0.66     | 2.03        | 63     | 1     |
| 1:A:69:PRO:CG    | 2:A:176:RCY:O1G  | 0.66     | 2.42        | 64     | 1     |
| 1:A:69:PRO:CB    | 2:A:176:RCY:H1ZA | 0.66     | 1.88        | 66     | 1     |
| 2:A:150:RCY:C1Q  | 2:A:150:RCY:H1ZB | 0.66     | 2.21        | 7      | 1     |
| 1:A:69:PRO:HG2   | 2:A:173:RCY:C1Y  | 0.66     | 2.13        | 9      | 1     |
| 1:A:70:TRP:O     | 2:A:150:RCY:O1G  | 0.66     | 2.12        | 34     | 1     |
| 1:A:71:GLU:N     | 2:A:173:RCY:C1Q  | 0.66     | 2.55        | 49     | 1     |
| 1:A:69:PRO:CA    | 2:A:168:RCY:C1V  | 0.66     | 2.73        | 63     | 1     |
| 2:A:168:RCY:C1Q  | 2:A:173:RCY:H1Y  | 0.66     | 2.14        | 84     | 1     |
| 2:A:150:RCY:H1ZB | 2:A:187:RCY:H1Y  | 0.66     | 1.67        | 88     | 1     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:C1C  | 0.66     | 2.78        | 94     | 1     |
| 1:A:65:THR:CA    | 2:A:168:RCY:C1L  | 0.66     | 2.73        | 97     | 1     |
| 2:A:168:RCY:C1V  | 2:A:176:RCY:H1Z  | 0.66     | 1.86        | 3      | 1     |
| 1:A:71:GLU:OE2   | 2:A:110:RCY:C1X  | 0.66     | 2.43        | 5      | 1     |
| 1:A:70:TRP:N     | 2:A:173:RCY:C1L  | 0.66     | 2.48        | 6      | 1     |
| 2:A:168:RCY:C1Y  | 2:A:187:RCY:C1Y  | 0.66     | 2.74        | 7      | 1     |
| 1:A:67:ILE:O     | 1:A:67:ILE:CG2   | 0.66     | 2.44        | 23     | 2     |
| 2:A:138:RCY:O1H  | 2:A:150:RCY:H1V  | 0.66     | 1.72        | 19     | 1     |
| 1:A:66:VAL:CG1   | 2:A:121:RCY:C1W  | 0.66     | 2.43        | 83     | 1     |
| 1:A:68:CYS:HB2   | 2:A:173:RCY:H1ZA | 0.66     | 1.67        | 11     | 1     |
| 1:A:59:GLY:C     | 2:A:160:RCY:C1Q  | 0.66     | 2.64        | 70     | 2     |
| 2:A:160:RCY:C1Q  | 2:A:168:RCY:H1LA | 0.66     | 2.20        | 35     | 1     |
| 2:A:150:RCY:H1VA | 2:A:160:RCY:H1YB | 0.66     | 1.56        | 42     | 1     |
| 2:A:173:RCY:H1VA | 2:A:187:RCY:H1Y  | 0.66     | 1.67        | 54     | 1     |
| 1:A:71:GLU:OE1   | 2:A:160:RCY:C1V  | 0.66     | 2.43        | 58     | 1     |
| 2:A:150:RCY:H1Z  | 2:A:160:RCY:H1Y  | 0.66     | 1.18        | 88     | 1     |
| 2:A:138:RCY:N1V  | 2:A:187:RCY:H1CA | 0.66     | 2.05        | 96     | 1     |
| 2:A:168:RCY:C1W  | 2:A:187:RCY:H1L  | 0.66     | 2.18        | 100    | 1     |
| 2:A:160:RCY:H1MA | 2:A:168:RCY:N1V  | 0.66     | 2.06        | 9      | 1     |
| 1:A:62:THR:HG21  | 2:A:130:RCY:C1X  | 0.66     | 2.19        | 18     | 1     |
| 2:A:168:RCY:H1M  | 2:A:176:RCY:H1ZB | 0.66     | 1.65        | 23     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:160:RCY:H1M  | 2:A:168:RCY:O1G  | 0.66     | 1.90        | 24     | 1     |
| 1:A:74:ASN:CB    | 2:A:176:RCY:O1G  | 0.66     | 2.44        | 52     | 2     |
| 1:A:62:THR:O     | 2:A:168:RCY:H1CA | 0.66     | 1.91        | 61     | 1     |
| 1:A:72:ALA:O     | 2:A:110:RCY:C1Z  | 0.66     | 2.44        | 70     | 1     |
| 2:A:138:RCY:H1VA | 2:A:160:RCY:H1ZA | 0.66     | 1.66        | 71     | 1     |
| 1:A:59:GLY:C     | 2:A:160:RCY:H1VB | 0.66     | 2.09        | 83     | 2     |
| 2:A:173:RCY:O1J  | 2:A:187:RCY:C1L  | 0.66     | 2.38        | 76     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:176:RCY:H1C  | 0.66     | 2.20        | 90     | 1     |
| 2:A:168:RCY:C1P  | 2:A:168:RCY:H1CA | 0.66     | 2.21        | 6      | 1     |
| 1:A:76:CYS:O     | 1:A:78:LEU:N     | 0.66     | 2.28        | 96     | 8     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:H1Z  | 0.66     | 2.18        | 17     | 1     |
| 2:A:176:RCY:C1X  | 2:A:187:RCY:H1YA | 0.66     | 2.21        | 26     | 1     |
| 2:A:138:RCY:C1M  | 2:A:150:RCY:C1C  | 0.66     | 2.67        | 56     | 2     |
| 2:A:173:RCY:O1J  | 2:A:176:RCY:H1Y  | 0.66     | 1.91        | 82     | 1     |
| 1:A:64:ILE:HG13  | 1:A:65:THR:N     | 0.66     | 2.06        | 89     | 1     |
| 2:A:138:RCY:O1G  | 2:A:187:RCY:H1VB | 0.66     | 1.90        | 5      | 1     |
| 1:A:61:GLY:N     | 2:A:160:RCY:C1L  | 0.66     | 2.47        | 19     | 1     |
| 1:A:70:TRP:NE1   | 2:A:160:RCY:C1V  | 0.66     | 2.59        | 34     | 1     |
| 1:A:64:ILE:CG1   | 2:A:168:RCY:N1R  | 0.66     | 2.59        | 69     | 1     |
| 1:A:75:HIS:CB    | 2:A:176:RCY:H1C  | 0.66     | 2.20        | 84     | 1     |
| 2:A:173:RCY:H1U  | 2:A:176:RCY:H1VB | 0.66     | 1.31        | 89     | 1     |
| 1:A:71:GLU:HG2   | 2:A:150:RCY:C1Y  | 0.66     | 2.20        | 96     | 1     |
| 2:A:130:RCY:C1U  | 2:A:160:RCY:C1Y  | 0.66     | 2.72        | 7      | 1     |
| 2:A:138:RCY:H1YA | 2:A:168:RCY:O1J  | 0.66     | 1.90        | 19     | 2     |
| 2:A:173:RCY:C1Q  | 2:A:187:RCY:C1C  | 0.66     | 2.70        | 7      | 1     |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:H1M  | 0.66     | 2.21        | 26     | 1     |
| 1:A:64:ILE:O     | 1:A:64:ILE:HG12  | 0.66     | 1.89        | 73     | 6     |
| 1:A:70:TRP:HA    | 2:A:130:RCY:O1G  | 0.66     | 1.91        | 27     | 1     |
| 2:A:176:RCY:H1VA | 2:A:187:RCY:C1U  | 0.66     | 2.21        | 29     | 1     |
| 1:A:71:GLU:C     | 2:A:173:RCY:H1V  | 0.66     | 2.11        | 33     | 1     |
| 2:A:168:RCY:H1Z  | 2:A:173:RCY:H1C  | 0.66     | 1.66        | 55     | 1     |
| 2:A:173:RCY:H1S  | 2:A:176:RCY:O1G  | 0.66     | 1.91        | 71     | 2     |
| 1:A:69:PRO:CA    | 2:A:176:RCY:H1VA | 0.66     | 2.14        | 72     | 1     |
| 1:A:63:ASP:OD1   | 2:A:150:RCY:C1Y  | 0.66     | 2.44        | 80     | 1     |
| 1:A:78:LEU:HD21  | 2:A:187:RCY:C1C  | 0.66     | 1.11        | 91     | 1     |
| 2:A:168:RCY:H1CA | 2:A:176:RCY:O1J  | 0.66     | 1.91        | 6      | 1     |
| 2:A:138:RCY:O1H  | 2:A:150:RCY:H1S  | 0.66     | 1.90        | 41     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:187:RCY:O1H  | 0.66     | 2.00        | 59     | 1     |
| 2:A:138:RCY:C1W  | 2:A:187:RCY:H1CA | 0.66     | 2.20        | 96     | 1     |
| 1:A:62:THR:O     | 1:A:64:ILE:N     | 0.65     | 2.30        | 43     | 32    |
| 2:A:150:RCY:C1Y  | 2:A:173:RCY:H1Z  | 0.65     | 2.20        | 8      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:73:CYS:H     | 2:A:173:RCY:H1LA | 0.65     | 1.49        | 80     | 3     |
| 1:A:71:GLU:HB3   | 2:A:168:RCY:C1P  | 0.65     | 2.21        | 11     | 2     |
| 2:A:187:RCY:O1H  | 2:A:187:RCY:H1CB | 0.65     | 1.91        | 11     | 4     |
| 2:A:168:RCY:C1Y  | 2:A:187:RCY:H1Z  | 0.65     | 2.16        | 21     | 1     |
| 2:A:150:RCY:N1R  | 2:A:150:RCY:H1U  | 0.65     | 1.98        | 25     | 2     |
| 2:A:160:RCY:C1W  | 2:A:168:RCY:C1M  | 0.65     | 2.63        | 52     | 1     |
| 2:A:138:RCY:C1P  | 2:A:138:RCY:H1ZB | 0.65     | 2.21        | 58     | 1     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:H1U  | 0.65     | 2.08        | 73     | 1     |
| 2:A:160:RCY:C1P  | 2:A:176:RCY:O1G  | 0.65     | 1.84        | 73     | 1     |
| 2:A:138:RCY:H1L  | 2:A:150:RCY:H1C  | 0.65     | 1.68        | 94     | 1     |
| 1:A:65:THR:C     | 1:A:66:VAL:HG23  | 0.65     | 2.11        | 73     | 19    |
| 2:A:168:RCY:H1CA | 2:A:173:RCY:C1Q  | 0.65     | 2.22        | 8      | 1     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:H1YA | 0.65     | 2.20        | 49     | 2     |
| 1:A:74:ASN:N     | 2:A:173:RCY:C1L  | 0.65     | 2.58        | 52     | 4     |
| 1:A:68:CYS:SG    | 1:A:70:TRP:CZ2   | 0.65     | 2.90        | 42     | 1     |
| 2:A:168:RCY:H1Z  | 2:A:173:RCY:H1VA | 0.65     | 1.66        | 55     | 1     |
| 1:A:74:ASN:C     | 2:A:176:RCY:C1C  | 0.65     | 2.62        | 62     | 1     |
| 1:A:70:TRP:O     | 2:A:176:RCY:C1V  | 0.65     | 2.40        | 78     | 1     |
| 1:A:65:THR:HA    | 2:A:168:RCY:O1G  | 0.65     | 1.91        | 97     | 1     |
| 1:A:59:GLY:C     | 1:A:60:CYS:SG    | 0.65     | 2.75        | 91     | 9     |
| 2:A:160:RCY:C1Y  | 2:A:176:RCY:C1Y  | 0.65     | 2.64        | 11     | 1     |
| 1:A:70:TRP:HB2   | 2:A:168:RCY:N1R  | 0.65     | 2.05        | 20     | 1     |
| 1:A:67:ILE:HD12  | 2:A:130:RCY:C1Y  | 0.65     | 2.20        | 30     | 1     |
| 1:A:72:ALA:HB1   | 2:A:173:RCY:C1Q  | 0.65     | 2.21        | 30     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:176:RCY:C1V  | 0.65     | 0.79        | 31     | 2     |
| 2:A:138:RCY:C1U  | 2:A:150:RCY:C1Q  | 0.65     | 2.28        | 33     | 1     |
| 1:A:70:TRP:CG    | 2:A:168:RCY:H1LA | 0.65     | 2.24        | 46     | 1     |
| 2:A:168:RCY:H1L  | 2:A:173:RCY:C1Y  | 0.65     | 2.01        | 62     | 1     |
| 1:A:69:PRO:O     | 2:A:173:RCY:C1Q  | 0.65     | 2.44        | 64     | 1     |
| 1:A:68:CYS:SG    | 2:A:150:RCY:H1YA | 0.65     | 2.32        | 85     | 1     |
| 2:A:138:RCY:C1M  | 2:A:173:RCY:H1ZA | 0.65     | 2.22        | 32     | 1     |
| 1:A:76:CYS:HB2   | 2:A:173:RCY:N1V  | 0.65     | 2.06        | 42     | 1     |
| 1:A:77:GLU:CA    | 2:A:176:RCY:H1LA | 0.65     | 2.22        | 45     | 1     |
| 2:A:130:RCY:C1V  | 2:A:130:RCY:O1J  | 0.65     | 2.43        | 79     | 1     |
| 1:A:63:ASP:CB    | 2:A:150:RCY:H1VB | 0.65     | 2.21        | 85     | 1     |
| 2:A:110:RCY:C1X  | 2:A:121:RCY:H1YB | 0.65     | 2.09        | 5      | 1     |
| 1:A:69:PRO:HG2   | 2:A:168:RCY:H1L  | 0.65     | 1.65        | 7      | 1     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:C1Q  | 0.65     | 2.54        | 10     | 1     |
| 2:A:160:RCY:C1X  | 2:A:168:RCY:H1U  | 0.65     | 2.21        | 47     | 1     |
| 2:A:176:RCY:O1J  | 2:A:187:RCY:H1ZA | 0.65     | 1.91        | 71     | 1     |
| 1:A:70:TRP:CZ2   | 1:A:71:GLU:CD    | 0.65     | 2.70        | 86     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:60:CYS:O     | 2:A:138:RCY:C1Q  | 0.65     | 2.43        | 7      | 1     |
| 1:A:69:PRO:O     | 2:A:176:RCY:C1V  | 0.65     | 2.45        | 62     | 2     |
| 1:A:68:CYS:SG    | 1:A:70:TRP:CE2   | 0.65     | 2.89        | 42     | 4     |
| 1:A:67:ILE:CD1   | 2:A:173:RCY:O1H  | 0.65     | 2.44        | 16     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:H1Z  | 0.65     | 2.21        | 31     | 1     |
| 1:A:63:ASP:CG    | 2:A:160:RCY:C1C  | 0.65     | 2.62        | 63     | 2     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:C1S  | 0.65     | 2.71        | 62     | 1     |
| 2:A:173:RCY:O1G  | 2:A:187:RCY:C1Z  | 0.65     | 2.43        | 67     | 1     |
| 2:A:173:RCY:H1MA | 2:A:176:RCY:O1J  | 0.65     | 1.91        | 68     | 1     |
| 2:A:150:RCY:C1V  | 2:A:187:RCY:C1L  | 0.65     | 2.75        | 87     | 1     |
| 2:A:168:RCY:H1YB | 2:A:173:RCY:C1Z  | 0.65     | 2.21        | 100    | 1     |
| 1:A:71:GLU:OE1   | 2:A:110:RCY:H1U  | 0.65     | 1.91        | 5      | 1     |
| 1:A:64:ILE:HG13  | 2:A:168:RCY:H1MA | 0.65     | 1.65        | 6      | 1     |
| 2:A:130:RCY:H1U  | 2:A:160:RCY:C1Y  | 0.65     | 2.22        | 7      | 1     |
| 1:A:72:ALA:CB    | 2:A:168:RCY:H1ZB | 0.65     | 2.21        | 22     | 1     |
| 2:A:150:RCY:H1VB | 2:A:160:RCY:C1U  | 0.65     | 2.20        | 42     | 1     |
| 1:A:77:GLU:OE2   | 2:A:138:RCY:H1VA | 0.65     | 1.91        | 52     | 1     |
| 1:A:69:PRO:CA    | 2:A:168:RCY:H1VA | 0.65     | 2.21        | 63     | 1     |
| 2:A:160:RCY:O1H  | 2:A:176:RCY:C1Y  | 0.65     | 2.44        | 71     | 1     |
| 1:A:76:CYS:HG    | 2:A:176:RCY:C1S  | 0.65     | 2.00        | 79     | 1     |
| 1:A:67:ILE:CG1   | 2:A:168:RCY:H1U  | 0.65     | 2.21        | 83     | 1     |
| 1:A:69:PRO:HG2   | 2:A:150:RCY:C1W  | 0.65     | 2.21        | 85     | 1     |
| 1:A:71:GLU:HG3   | 2:A:121:RCY:C1Y  | 0.65     | 2.21        | 4      | 1     |
| 2:A:168:RCY:O1G  | 2:A:173:RCY:C1Y  | 0.65     | 2.38        | 13     | 2     |
| 2:A:168:RCY:H1ZB | 2:A:176:RCY:C1Y  | 0.65     | 2.22        | 35     | 2     |
| 1:A:68:CYS:SG    | 1:A:70:TRP:CD2   | 0.65     | 2.90        | 15     | 2     |
| 2:A:168:RCY:H1ZA | 2:A:176:RCY:C1X  | 0.65     | 2.21        | 31     | 1     |
| 1:A:71:GLU:CG    | 2:A:173:RCY:H1VA | 0.65     | 2.21        | 41     | 1     |
| 1:A:71:GLU:HB3   | 2:A:168:RCY:H1S  | 0.65     | 1.69        | 48     | 1     |
| 1:A:69:PRO:N     | 2:A:168:RCY:H1VA | 0.65     | 2.05        | 63     | 1     |
| 1:A:64:ILE:HG23  | 1:A:66:VAL:H     | 0.65     | 1.52        | 83     | 3     |
| 2:A:150:RCY:C1M  | 2:A:187:RCY:H1YB | 0.65     | 2.21        | 88     | 1     |
| 2:A:168:RCY:O1J  | 2:A:173:RCY:H1MA | 0.65     | 1.92        | 91     | 1     |
| 2:A:168:RCY:C1L  | 2:A:173:RCY:H1U  | 0.65     | 2.21        | 21     | 1     |
| 2:A:150:RCY:H1V  | 2:A:187:RCY:C1U  | 0.65     | 2.20        | 38     | 1     |
| 2:A:160:RCY:H1MA | 2:A:168:RCY:C1U  | 0.65     | 2.14        | 41     | 1     |
| 1:A:70:TRP:HE3   | 2:A:168:RCY:C1P  | 0.65     | 2.05        | 46     | 1     |
| 1:A:73:CYS:SG    | 2:A:176:RCY:C1C  | 0.65     | 2.84        | 52     | 1     |
| 1:A:63:ASP:CA    | 2:A:168:RCY:C1L  | 0.65     | 2.75        | 59     | 1     |
| 1:A:73:CYS:HB2   | 2:A:176:RCY:C1M  | 0.65     | 2.20        | 70     | 1     |
| 2:A:110:RCY:C1W  | 2:A:121:RCY:H1VA | 0.65     | 2.21        | 81     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:150:RCY:H1CB | 2:A:187:RCY:O1J  | 0.65     | 1.88        | 84     | 1     |
| 2:A:168:RCY:H1M  | 2:A:187:RCY:H1ZA | 0.65     | 1.66        | 97     | 1     |
| 1:A:65:THR:O     | 1:A:65:THR:CG2   | 0.65     | 2.45        | 44     | 8     |
| 1:A:70:TRP:N     | 2:A:187:RCY:C1C  | 0.65     | 2.51        | 7      | 1     |
| 1:A:63:ASP:CG    | 2:A:160:RCY:H1CA | 0.65     | 2.13        | 14     | 2     |
| 2:A:173:RCY:C1L  | 2:A:176:RCY:H1M  | 0.65     | 2.22        | 20     | 1     |
| 1:A:64:ILE:O     | 1:A:64:ILE:HG22  | 0.65     | 1.92        | 46     | 7     |
| 2:A:150:RCY:H1U  | 2:A:160:RCY:H1VB | 0.65     | 1.66        | 42     | 1     |
| 2:A:168:RCY:H1C  | 2:A:173:RCY:H1M  | 0.65     | 0.80        | 99     | 1     |
| 2:A:160:RCY:H1ZA | 2:A:173:RCY:C1Z  | 0.64     | 2.22        | 4      | 1     |
| 2:A:130:RCY:C1C  | 2:A:160:RCY:C1C  | 0.64     | 2.75        | 8      | 2     |
| 1:A:71:GLU:HG2   | 2:A:176:RCY:H1ZA | 0.64     | 1.68        | 20     | 1     |
| 2:A:160:RCY:H1ZB | 2:A:168:RCY:H1U  | 0.64     | 1.68        | 20     | 1     |
| 2:A:130:RCY:O1J  | 2:A:160:RCY:C1X  | 0.64     | 2.45        | 64     | 4     |
| 1:A:70:TRP:CG    | 2:A:168:RCY:H1VB | 0.64     | 2.26        | 28     | 1     |
| 2:A:176:RCY:H1CA | 2:A:187:RCY:O1H  | 0.64     | 1.93        | 32     | 1     |
| 1:A:74:ASN:CA    | 2:A:173:RCY:H1CB | 0.64     | 2.17        | 35     | 1     |
| 2:A:138:RCY:H1C  | 2:A:187:RCY:H1V  | 0.64     | 1.68        | 63     | 1     |
| 2:A:176:RCY:H1S  | 2:A:187:RCY:C1Y  | 0.64     | 2.22        | 80     | 1     |
| 2:A:138:RCY:C1W  | 2:A:150:RCY:C1Y  | 0.64     | 2.73        | 89     | 1     |
| 1:A:75:HIS:O     | 1:A:76:CYS:O     | 0.64     | 2.15        | 48     | 10    |
| 2:A:130:RCY:O1H  | 2:A:130:RCY:C1W  | 0.64     | 2.43        | 2      | 1     |
| 2:A:168:RCY:C1M  | 2:A:187:RCY:C1W  | 0.64     | 2.30        | 7      | 2     |
| 2:A:173:RCY:C1P  | 2:A:173:RCY:H1VB | 0.64     | 2.22        | 11     | 2     |
| 2:A:138:RCY:C1S  | 2:A:160:RCY:H1ZB | 0.64     | 2.17        | 18     | 1     |
| 2:A:160:RCY:H1ZB | 2:A:160:RCY:C1Q  | 0.64     | 2.22        | 82     | 4     |
| 2:A:150:RCY:H1V  | 2:A:160:RCY:N1V  | 0.64     | 2.08        | 42     | 1     |
| 1:A:65:THR:CG2   | 2:A:168:RCY:H1CB | 0.64     | 2.22        | 60     | 1     |
| 1:A:63:ASP:HA    | 2:A:168:RCY:H1U  | 0.64     | 1.69        | 61     | 1     |
| 1:A:67:ILE:C     | 2:A:168:RCY:H1ZA | 0.64     | 2.10        | 83     | 1     |
| 2:A:150:RCY:C1V  | 2:A:187:RCY:C1S  | 0.64     | 2.76        | 87     | 1     |
| 1:A:70:TRP:HD1   | 2:A:187:RCY:C1Y  | 0.64     | 1.88        | 92     | 1     |
| 1:A:64:ILE:CG1   | 1:A:64:ILE:O     | 0.64     | 2.45        | 43     | 8     |
| 1:A:75:HIS:HB2   | 2:A:176:RCY:C1L  | 0.64     | 2.17        | 13     | 1     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:H1M  | 0.64     | 1.67        | 34     | 2     |
| 2:A:130:RCY:H1Y  | 2:A:176:RCY:C1X  | 0.64     | 1.88        | 41     | 1     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:C1M  | 0.64     | 2.06        | 69     | 1     |
| 1:A:69:PRO:O     | 2:A:173:RCY:C1U  | 0.64     | 2.42        | 76     | 1     |
| 2:A:130:RCY:O1J  | 2:A:160:RCY:H1S  | 0.64     | 1.92        | 86     | 1     |
| 2:A:168:RCY:H1U  | 2:A:187:RCY:H1Y  | 0.64     | 1.63        | 87     | 1     |
| 1:A:69:PRO:HG3   | 2:A:150:RCY:H1ZA | 0.64     | 1.69        | 92     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:130:RCY:C1V  | 2:A:173:RCY:C1Y  | 0.64     | 2.73        | 94     | 1     |
| 1:A:70:TRP:O     | 1:A:70:TRP:CG    | 0.64     | 2.49        | 34     | 5     |
| 2:A:176:RCY:H1VB | 2:A:187:RCY:H1YA | 0.64     | 1.69        | 26     | 1     |
| 1:A:75:HIS:ND1   | 1:A:76:CYS:N     | 0.64     | 2.45        | 99     | 4     |
| 2:A:160:RCY:H1Z  | 2:A:173:RCY:H1Y  | 0.64     | 1.68        | 39     | 1     |
| 2:A:160:RCY:C1P  | 2:A:168:RCY:O1J  | 0.64     | 2.45        | 64     | 1     |
| 1:A:63:ASP:HA    | 2:A:150:RCY:C1Z  | 0.64     | 2.22        | 80     | 1     |
| 1:A:64:ILE:O     | 1:A:68:CYS:SG    | 0.64     | 2.55        | 100    | 10    |
| 1:A:69:PRO:HD3   | 2:A:168:RCY:N1R  | 0.64     | 2.07        | 8      | 1     |
| 1:A:75:HIS:CB    | 2:A:187:RCY:C1Z  | 0.64     | 2.75        | 56     | 1     |
| 1:A:74:ASN:CA    | 2:A:176:RCY:C1U  | 0.64     | 2.73        | 67     | 1     |
| 1:A:67:ILE:CD1   | 2:A:173:RCY:C1Y  | 0.64     | 2.68        | 100    | 1     |
| 2:A:168:RCY:H1ZB | 2:A:187:RCY:C1Z  | 0.64     | 2.22        | 100    | 1     |
| 1:A:70:TRP:CG    | 2:A:173:RCY:H1VB | 0.64     | 2.24        | 4      | 1     |
| 2:A:138:RCY:O1J  | 2:A:150:RCY:H1Y  | 0.64     | 1.93        | 6      | 2     |
| 2:A:130:RCY:C1C  | 2:A:130:RCY:C1P  | 0.64     | 2.71        | 9      | 8     |
| 1:A:64:ILE:HD13  | 1:A:64:ILE:C     | 0.64     | 2.12        | 17     | 2     |
| 2:A:176:RCY:C1Q  | 2:A:176:RCY:C1C  | 0.64     | 2.76        | 29     | 2     |
| 1:A:74:ASN:N     | 2:A:173:RCY:H1LA | 0.64     | 2.03        | 33     | 3     |
| 1:A:69:PRO:HB2   | 2:A:176:RCY:H1M  | 0.64     | 1.69        | 43     | 1     |
| 1:A:70:TRP:HE3   | 2:A:168:RCY:C1L  | 0.64     | 2.05        | 46     | 2     |
| 1:A:70:TRP:CE2   | 2:A:176:RCY:H1CA | 0.64     | 2.27        | 62     | 1     |
| 1:A:69:PRO:C     | 2:A:173:RCY:O1H  | 0.64     | 2.35        | 64     | 1     |
| 2:A:173:RCY:H1C  | 2:A:187:RCY:C1W  | 0.64     | 2.19        | 97     | 1     |
| 1:A:73:CYS:CB    | 2:A:168:RCY:H1Z  | 0.64     | 1.24        | 99     | 1     |
| 2:A:138:RCY:C1V  | 2:A:176:RCY:O1J  | 0.64     | 2.46        | 9      | 1     |
| 1:A:63:ASP:CA    | 2:A:160:RCY:C1Z  | 0.64     | 2.69        | 14     | 1     |
| 2:A:150:RCY:C1U  | 2:A:187:RCY:H1L  | 0.64     | 1.91        | 27     | 1     |
| 1:A:73:CYS:HA    | 2:A:173:RCY:C1P  | 0.64     | 2.22        | 33     | 1     |
| 2:A:173:RCY:C1C  | 2:A:173:RCY:C1P  | 0.64     | 2.74        | 69     | 4     |
| 1:A:63:ASP:OD2   | 2:A:121:RCY:C1Y  | 0.64     | 2.45        | 42     | 1     |
| 1:A:74:ASN:O     | 2:A:187:RCY:C1X  | 0.64     | 2.42        | 56     | 1     |
| 2:A:130:RCY:C1M  | 2:A:173:RCY:H1YA | 0.64     | 2.18        | 94     | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:N1V  | 0.64     | 2.57        | 11     | 2     |
| 2:A:160:RCY:C1C  | 2:A:168:RCY:C1P  | 0.64     | 2.75        | 19     | 2     |
| 2:A:160:RCY:C1Z  | 2:A:173:RCY:H1C  | 0.64     | 2.23        | 20     | 1     |
| 2:A:168:RCY:N1R  | 2:A:168:RCY:H1U  | 0.64     | 1.97        | 25     | 2     |
| 2:A:173:RCY:H1V  | 2:A:187:RCY:C1Y  | 0.64     | 2.22        | 31     | 1     |
| 1:A:71:GLU:HA    | 2:A:168:RCY:C1W  | 0.64     | 2.22        | 37     | 1     |
| 2:A:150:RCY:H1VA | 2:A:160:RCY:H1YA | 0.64     | 0.64        | 42     | 1     |
| 1:A:70:TRP:HE3   | 2:A:168:RCY:C1M  | 0.64     | 2.02        | 44     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:70:TRP:NE1   | 2:A:121:RCY:C1M  | 0.64     | 2.48        | 49     | 1     |
| 2:A:160:RCY:H1YB | 2:A:168:RCY:C1Q  | 0.64     | 2.23        | 58     | 1     |
| 1:A:60:CYS:CA    | 2:A:160:RCY:H1VB | 0.64     | 2.21        | 72     | 1     |
| 1:A:70:TRP:CA    | 2:A:173:RCY:H1Y  | 0.64     | 2.19        | 85     | 1     |
| 1:A:77:GLU:N     | 2:A:176:RCY:C1S  | 0.64     | 2.59        | 87     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:187:RCY:H1Y  | 0.64     | 2.22        | 94     | 1     |
| 1:A:63:ASP:C     | 2:A:168:RCY:H1VA | 0.64     | 1.88        | 5      | 1     |
| 2:A:130:RCY:C1V  | 2:A:173:RCY:C1S  | 0.64     | 2.76        | 5      | 1     |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:C1Y  | 0.64     | 2.00        | 9      | 1     |
| 1:A:61:GLY:C     | 2:A:150:RCY:C1V  | 0.64     | 2.66        | 11     | 1     |
| 2:A:110:RCY:C1M  | 2:A:121:RCY:C1Y  | 0.64     | 2.69        | 22     | 1     |
| 2:A:187:RCY:H1CB | 2:A:187:RCY:O1H  | 0.64     | 1.92        | 26     | 3     |
| 2:A:160:RCY:H1U  | 2:A:168:RCY:C1X  | 0.64     | 2.13        | 49     | 1     |
| 2:A:173:RCY:C1P  | 2:A:187:RCY:H1VA | 0.64     | 2.23        | 89     | 1     |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:C1Z  | 0.64     | 2.76        | 99     | 1     |
| 1:A:75:HIS:C     | 2:A:176:RCY:O1H  | 0.64     | 2.36        | 67     | 2     |
| 1:A:67:ILE:HA    | 2:A:176:RCY:H1VA | 0.64     | 0.72        | 16     | 1     |
| 1:A:70:TRP:CB    | 2:A:168:RCY:C1S  | 0.64     | 2.75        | 20     | 2     |
| 2:A:176:RCY:H1VB | 2:A:187:RCY:H1V  | 0.64     | 0.73        | 26     | 1     |
| 1:A:63:ASP:OD2   | 2:A:138:RCY:C1U  | 0.64     | 2.44        | 27     | 1     |
| 2:A:168:RCY:H1M  | 2:A:187:RCY:H1YA | 0.64     | 1.70        | 40     | 1     |
| 1:A:74:ASN:O     | 2:A:176:RCY:O1H  | 0.64     | 2.16        | 44     | 2     |
| 2:A:130:RCY:N1V  | 2:A:130:RCY:H1VA | 0.64     | 2.07        | 79     | 1     |
| 2:A:110:RCY:C1P  | 2:A:110:RCY:C1C  | 0.63     | 2.76        | 43     | 4     |
| 1:A:64:ILE:CB    | 2:A:168:RCY:H1ZB | 0.63     | 2.09        | 30     | 1     |
| 1:A:71:GLU:CG    | 2:A:168:RCY:C1L  | 0.63     | 2.76        | 32     | 1     |
| 2:A:150:RCY:H1YB | 2:A:187:RCY:C1V  | 0.63     | 2.22        | 38     | 1     |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:C1P  | 0.63     | 2.73        | 38     | 1     |
| 1:A:60:CYS:CB    | 2:A:168:RCY:H1ZA | 0.63     | 2.23        | 52     | 1     |
| 2:A:173:RCY:O1H  | 2:A:176:RCY:H1MA | 0.63     | 1.94        | 61     | 1     |
| 2:A:160:RCY:H1LA | 2:A:168:RCY:H1CA | 0.63     | 1.67        | 64     | 1     |
| 2:A:130:RCY:C1P  | 2:A:160:RCY:H1Z  | 0.63     | 2.22        | 67     | 1     |
| 1:A:69:PRO:CA    | 2:A:176:RCY:H1YA | 0.63     | 2.22        | 72     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:160:RCY:O1H  | 0.63     | 2.38        | 88     | 2     |
| 1:A:69:PRO:CD    | 2:A:168:RCY:C1Q  | 0.63     | 2.75        | 90     | 2     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:C1M  | 0.63     | 2.24        | 34     | 2     |
| 1:A:74:ASN:ND2   | 1:A:75:HIS:CD2   | 0.63     | 2.66        | 38     | 1     |
| 1:A:62:THR:HB    | 2:A:160:RCY:H1CA | 0.63     | 0.93        | 46     | 1     |
| 1:A:71:GLU:CG    | 2:A:168:RCY:O1G  | 0.63     | 2.21        | 99     | 2     |
| 1:A:77:GLU:CB    | 2:A:176:RCY:O1G  | 0.63     | 2.45        | 55     | 1     |
| 2:A:160:RCY:H1Y  | 2:A:168:RCY:H1CB | 0.63     | 1.70        | 87     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:73:CYS:N     | 2:A:168:RCY:C1M  | 0.63     | 2.61        | 99     | 1     |
| 1:A:65:THR:CB    | 2:A:160:RCY:C1W  | 0.63     | 2.72        | 100    | 1     |
| 2:A:168:RCY:C1S  | 2:A:173:RCY:H1ZB | 0.63     | 2.23        | 10     | 1     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:C1X  | 0.63     | 2.23        | 11     | 1     |
| 2:A:168:RCY:N1V  | 2:A:173:RCY:C1P  | 0.63     | 2.60        | 37     | 1     |
| 1:A:64:ILE:CD1   | 2:A:160:RCY:H1C  | 0.63     | 2.24        | 39     | 1     |
| 1:A:73:CYS:HB2   | 2:A:176:RCY:O1J  | 0.63     | 1.92        | 84     | 1     |
| 1:A:70:TRP:HH2   | 2:A:150:RCY:O1J  | 0.63     | 1.69        | 93     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:176:RCY:O1J  | 0.63     | 2.51        | 94     | 1     |
| 1:A:68:CYS:SG    | 1:A:69:PRO:CD    | 0.63     | 2.87        | 30     | 1     |
| 2:A:173:RCY:C1Q  | 2:A:176:RCY:H1V  | 0.63     | 2.23        | 31     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:O1G  | 0.63     | 2.50        | 46     | 2     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:O1J  | 0.63     | 2.43        | 39     | 1     |
| 1:A:78:LEU:HD13  | 2:A:138:RCY:H1VA | 0.63     | 1.71        | 40     | 1     |
| 1:A:70:TRP:HE3   | 2:A:168:RCY:C1Z  | 0.63     | 2.01        | 41     | 1     |
| 2:A:150:RCY:H1V  | 2:A:187:RCY:C1Z  | 0.63     | 2.24        | 41     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:150:RCY:O1H  | 0.63     | 2.45        | 60     | 1     |
| 2:A:121:RCY:H1YA | 2:A:187:RCY:O1G  | 0.63     | 1.92        | 62     | 1     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:O1H  | 0.63     | 1.92        | 69     | 1     |
| 2:A:168:RCY:H1C  | 2:A:176:RCY:H1YB | 0.63     | 1.70        | 74     | 1     |
| 1:A:70:TRP:N     | 2:A:176:RCY:C1Y  | 0.63     | 2.46        | 80     | 1     |
| 1:A:70:TRP:CA    | 2:A:173:RCY:C1W  | 0.63     | 2.75        | 85     | 1     |
| 2:A:150:RCY:H1ZB | 2:A:187:RCY:H1Z  | 0.63     | 1.69        | 88     | 1     |
| 2:A:168:RCY:H1LA | 2:A:173:RCY:H1ZB | 0.63     | 1.64        | 10     | 1     |
| 1:A:70:TRP:CB    | 2:A:168:RCY:H1L  | 0.63     | 2.23        | 94     | 3     |
| 2:A:173:RCY:C1X  | 2:A:176:RCY:H1M  | 0.63     | 2.23        | 69     | 2     |
| 1:A:64:ILE:O     | 1:A:64:ILE:CD1   | 0.63     | 2.47        | 73     | 3     |
| 2:A:168:RCY:H1Z  | 2:A:176:RCY:H1CB | 0.63     | 1.71        | 31     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:168:RCY:H1L  | 0.63     | 2.23        | 48     | 1     |
| 2:A:173:RCY:H1YA | 2:A:176:RCY:C1Y  | 0.63     | 2.15        | 59     | 1     |
| 2:A:168:RCY:C1P  | 2:A:176:RCY:C1M  | 0.63     | 2.73        | 71     | 1     |
| 1:A:66:VAL:HB    | 2:A:138:RCY:C1V  | 0.63     | 2.23        | 72     | 1     |
| 2:A:160:RCY:C1X  | 2:A:168:RCY:H1M  | 0.63     | 2.23        | 96     | 1     |
| 2:A:160:RCY:H1Y  | 2:A:168:RCY:C1S  | 0.63     | 2.23        | 1      | 1     |
| 1:A:64:ILE:CG2   | 1:A:65:THR:N     | 0.63     | 2.62        | 53     | 9     |
| 2:A:173:RCY:O1G  | 2:A:173:RCY:H1ZB | 0.63     | 1.94        | 17     | 3     |
| 1:A:67:ILE:O     | 2:A:168:RCY:C1Q  | 0.63     | 2.46        | 63     | 2     |
| 1:A:74:ASN:N     | 2:A:168:RCY:C1Y  | 0.63     | 2.57        | 91     | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:H1VA | 0.63     | 1.93        | 70     | 2     |
| 1:A:64:ILE:O     | 1:A:65:THR:HG23  | 0.63     | 1.93        | 11     | 1     |
| 1:A:69:PRO:CG    | 2:A:187:RCY:H1V  | 0.63     | 2.24        | 14     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:71:GLU:CG    | 2:A:176:RCY:H1ZA | 0.63     | 2.08        | 20     | 1     |
| 1:A:70:TRP:CB    | 2:A:121:RCY:H1VB | 0.63     | 2.16        | 30     | 1     |
| 2:A:138:RCY:H1YB | 2:A:173:RCY:H1MA | 0.63     | 1.69        | 32     | 1     |
| 2:A:176:RCY:N1V  | 2:A:187:RCY:H1VA | 0.63     | 2.07        | 33     | 1     |
| 2:A:176:RCY:C1Z  | 2:A:187:RCY:C1Z  | 0.63     | 2.69        | 38     | 1     |
| 1:A:75:HIS:CD2   | 2:A:173:RCY:H1ZB | 0.63     | 2.17        | 42     | 1     |
| 2:A:121:RCY:C1Y  | 2:A:160:RCY:C1Z  | 0.63     | 2.38        | 44     | 1     |
| 2:A:160:RCY:H1C  | 2:A:168:RCY:C1P  | 0.63     | 2.23        | 48     | 1     |
| 1:A:70:TRP:CD2   | 2:A:168:RCY:H1M  | 0.63     | 2.27        | 49     | 1     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:H1ZA | 0.63     | 2.24        | 57     | 1     |
| 1:A:71:GLU:HB3   | 2:A:160:RCY:C1V  | 0.63     | 2.24        | 58     | 1     |
| 2:A:168:RCY:H1Y  | 2:A:187:RCY:C1V  | 0.63     | 2.24        | 74     | 1     |
| 2:A:168:RCY:H1VA | 2:A:173:RCY:C1Q  | 0.63     | 2.19        | 76     | 1     |
| 1:A:65:THR:O     | 2:A:168:RCY:C1V  | 0.63     | 2.47        | 17     | 1     |
| 1:A:64:ILE:HG13  | 2:A:168:RCY:C1P  | 0.63     | 2.20        | 69     | 2     |
| 2:A:138:RCY:C1V  | 2:A:187:RCY:C1P  | 0.63     | 2.77        | 21     | 1     |
| 1:A:77:GLU:H     | 2:A:173:RCY:C1P  | 0.63     | 2.07        | 28     | 1     |
| 1:A:70:TRP:CA    | 2:A:168:RCY:H1ZB | 0.63     | 2.24        | 36     | 1     |
| 1:A:72:ALA:N     | 2:A:173:RCY:C1Q  | 0.63     | 2.62        | 50     | 1     |
| 1:A:67:ILE:CB    | 2:A:173:RCY:H1M  | 0.63     | 2.23        | 80     | 1     |
| 2:A:176:RCY:C1U  | 2:A:187:RCY:C1V  | 0.63     | 2.68        | 81     | 1     |
| 2:A:138:RCY:H1CB | 2:A:150:RCY:C1Q  | 0.63     | 2.22        | 82     | 1     |
| 2:A:176:RCY:N1R  | 2:A:187:RCY:H1M  | 0.63     | 2.09        | 26     | 1     |
| 2:A:168:RCY:H1YB | 2:A:187:RCY:H1ZA | 0.63     | 1.70        | 47     | 1     |
| 2:A:176:RCY:O1J  | 2:A:187:RCY:H1YA | 0.63     | 1.94        | 55     | 1     |
| 2:A:168:RCY:H1VB | 2:A:173:RCY:O1H  | 0.63     | 1.94        | 57     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:160:RCY:H1YA | 0.63     | 2.23        | 67     | 1     |
| 1:A:62:THR:OG1   | 1:A:66:VAL:HG22  | 0.63     | 1.94        | 68     | 1     |
| 1:A:64:ILE:N     | 1:A:64:ILE:HD12  | 0.63     | 2.09        | 76     | 1     |
| 2:A:150:RCY:H1YB | 2:A:160:RCY:O1G  | 0.63     | 1.94        | 91     | 1     |
| 1:A:64:ILE:CG2   | 2:A:168:RCY:C1L  | 0.62     | 2.71        | 1      | 1     |
| 1:A:62:THR:N     | 2:A:150:RCY:H1VB | 0.62     | 2.08        | 11     | 1     |
| 1:A:71:GLU:CA    | 2:A:173:RCY:C1M  | 0.62     | 2.76        | 11     | 1     |
| 1:A:63:ASP:C     | 2:A:160:RCY:C1Z  | 0.62     | 2.58        | 78     | 2     |
| 1:A:68:CYS:SG    | 1:A:70:TRP:CG    | 0.62     | 2.92        | 15     | 1     |
| 1:A:67:ILE:HG13  | 2:A:176:RCY:H1V  | 0.62     | 0.68        | 16     | 1     |
| 2:A:130:RCY:C1V  | 2:A:160:RCY:H1V  | 0.62     | 2.23        | 18     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:176:RCY:C1C  | 0.62     | 2.77        | 31     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:H1VA | 0.62     | 1.19        | 31     | 1     |
| 2:A:160:RCY:H1MA | 2:A:168:RCY:H1M  | 0.62     | 0.69        | 41     | 1     |
| 1:A:72:ALA:N     | 2:A:168:RCY:C1C  | 0.62     | 2.61        | 86     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:62:THR:HG23  | 2:A:130:RCY:C1Z  | 0.62     | 2.23        | 88     | 1     |
| 1:A:60:CYS:O     | 2:A:138:RCY:C1P  | 0.62     | 2.46        | 7      | 1     |
| 2:A:176:RCY:H1VA | 2:A:187:RCY:H1LA | 0.62     | 1.68        | 15     | 1     |
| 1:A:64:ILE:CG2   | 1:A:64:ILE:O     | 0.62     | 2.47        | 98     | 2     |
| 2:A:160:RCY:N1V  | 2:A:168:RCY:C1P  | 0.62     | 2.62        | 48     | 1     |
| 1:A:69:PRO:CG    | 2:A:187:RCY:O1G  | 0.62     | 2.47        | 95     | 1     |
| 1:A:70:TRP:O     | 1:A:70:TRP:CD1   | 0.62     | 2.52        | 78     | 3     |
| 2:A:168:RCY:H1YB | 2:A:187:RCY:H1Y  | 0.62     | 1.69        | 7      | 1     |
| 1:A:74:ASN:N     | 2:A:176:RCY:C1C  | 0.62     | 2.41        | 20     | 2     |
| 2:A:168:RCY:C1V  | 2:A:173:RCY:C1W  | 0.62     | 2.77        | 29     | 1     |
| 1:A:71:GLU:HG3   | 2:A:168:RCY:C1L  | 0.62     | 2.24        | 32     | 1     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:H1U  | 0.62     | 1.65        | 38     | 1     |
| 2:A:176:RCY:H1YB | 2:A:187:RCY:H1Z  | 0.62     | 1.71        | 47     | 1     |
| 1:A:68:CYS:SG    | 2:A:160:RCY:C1M  | 0.62     | 2.85        | 58     | 1     |
| 2:A:173:RCY:H1Z  | 2:A:187:RCY:C1Y  | 0.62     | 2.23        | 72     | 1     |
| 1:A:61:GLY:O     | 2:A:168:RCY:C1Q  | 0.62     | 2.46        | 11     | 1     |
| 2:A:150:RCY:H1Y  | 2:A:187:RCY:C1P  | 0.62     | 2.23        | 59     | 1     |
| 2:A:160:RCY:O1G  | 2:A:168:RCY:H1VA | 0.62     | 1.95        | 60     | 1     |
| 2:A:173:RCY:O1J  | 2:A:187:RCY:C1P  | 0.62     | 2.48        | 61     | 1     |
| 1:A:69:PRO:HD3   | 2:A:168:RCY:C1C  | 0.62     | 1.91        | 66     | 1     |
| 1:A:76:CYS:CB    | 2:A:160:RCY:N1V  | 0.62     | 2.57        | 73     | 1     |
| 2:A:150:RCY:C1U  | 2:A:168:RCY:H1YA | 0.62     | 2.23        | 74     | 1     |
| 1:A:67:ILE:HD13  | 2:A:130:RCY:H1Y  | 0.62     | 1.67        | 78     | 1     |
| 1:A:71:GLU:N     | 2:A:173:RCY:H1V  | 0.62     | 2.06        | 78     | 1     |
| 1:A:69:PRO:HG2   | 2:A:150:RCY:N1V  | 0.62     | 2.09        | 85     | 1     |
| 1:A:70:TRP:CH2   | 2:A:130:RCY:H1Y  | 0.62     | 2.29        | 88     | 1     |
| 1:A:62:THR:HG23  | 1:A:62:THR:O     | 0.62     | 1.93        | 14     | 1     |
| 1:A:71:GLU:HG3   | 2:A:168:RCY:C1C  | 0.62     | 2.24        | 36     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:H1LA | 0.62     | 2.16        | 48     | 1     |
| 2:A:173:RCY:H1YA | 2:A:176:RCY:O1H  | 0.62     | 1.95        | 61     | 2     |
| 2:A:130:RCY:C1C  | 2:A:160:RCY:C1P  | 0.62     | 2.66        | 66     | 1     |
| 2:A:176:RCY:C1P  | 2:A:176:RCY:C1C  | 0.62     | 2.69        | 71     | 1     |
| 1:A:67:ILE:CG2   | 2:A:173:RCY:C1Z  | 0.62     | 2.78        | 80     | 1     |
| 1:A:67:ILE:HD11  | 2:A:160:RCY:C1V  | 0.62     | 2.21        | 86     | 1     |
| 1:A:66:VAL:CG1   | 2:A:121:RCY:H1ZA | 0.62     | 2.23        | 89     | 1     |
| 2:A:168:RCY:H1Y  | 2:A:176:RCY:O1J  | 0.62     | 1.93        | 90     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:N1R  | 0.62     | 2.61        | 3      | 2     |
| 2:A:168:RCY:H1VA | 2:A:176:RCY:H1CA | 0.62     | 1.69        | 16     | 2     |
| 1:A:70:TRP:CH2   | 2:A:138:RCY:H1C  | 0.62     | 2.30        | 19     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:173:RCY:C1C  | 0.62     | 2.24        | 20     | 1     |
| 1:A:78:LEU:HD12  | 1:A:78:LEU:O     | 0.62     | 1.94        | 46     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:61:GLY:O     | 1:A:65:THR:N     | 0.62     | 2.32        | 39     | 1     |
| 1:A:77:GLU:HG3   | 2:A:176:RCY:C1M  | 0.62     | 2.23        | 39     | 1     |
| 1:A:70:TRP:CH2   | 2:A:168:RCY:C1Z  | 0.62     | 2.83        | 59     | 1     |
| 2:A:150:RCY:C1V  | 2:A:187:RCY:C1Y  | 0.62     | 2.62        | 66     | 1     |
| 1:A:70:TRP:HE1   | 1:A:75:HIS:CE1   | 0.62     | 2.12        | 73     | 1     |
| 2:A:173:RCY:H1Z  | 2:A:187:RCY:H1Z  | 0.62     | 1.57        | 84     | 1     |
| 2:A:150:RCY:H1S  | 2:A:160:RCY:H1YB | 0.62     | 0.72        | 85     | 1     |
| 1:A:70:TRP:HE1   | 2:A:168:RCY:H1LA | 0.62     | 1.52        | 89     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:173:RCY:H1YA | 0.62     | 2.23        | 92     | 1     |
| 2:A:138:RCY:H1CA | 2:A:138:RCY:C1Q  | 0.62     | 2.25        | 93     | 7     |
| 2:A:160:RCY:C1Q  | 2:A:168:RCY:O1J  | 0.62     | 2.48        | 9      | 1     |
| 1:A:64:ILE:HG21  | 2:A:150:RCY:H1VA | 0.62     | 0.69        | 16     | 1     |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:H1CB | 0.62     | 1.71        | 26     | 1     |
| 1:A:71:GLU:OE2   | 2:A:176:RCY:C1P  | 0.62     | 2.48        | 37     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:173:RCY:C1X  | 0.62     | 2.25        | 37     | 1     |
| 1:A:67:ILE:O     | 2:A:168:RCY:H1LA | 0.62     | 1.94        | 75     | 2     |
| 1:A:71:GLU:N     | 1:A:74:ASN:HD21  | 0.62     | 1.93        | 3      | 1     |
| 2:A:176:RCY:C1X  | 2:A:187:RCY:H1V  | 0.62     | 2.23        | 4      | 3     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:H1L  | 0.62     | 2.25        | 6      | 2     |
| 2:A:160:RCY:H1YA | 2:A:168:RCY:O1J  | 0.62     | 1.94        | 13     | 1     |
| 1:A:74:ASN:C     | 1:A:75:HIS:CG    | 0.62     | 2.73        | 20     | 3     |
| 2:A:150:RCY:H1YB | 2:A:176:RCY:H1Y  | 0.62     | 1.68        | 37     | 1     |
| 2:A:150:RCY:H1ZB | 2:A:187:RCY:H1CB | 0.62     | 1.70        | 50     | 1     |
| 2:A:150:RCY:C1M  | 2:A:187:RCY:H1Z  | 0.62     | 2.23        | 69     | 1     |
| 2:A:150:RCY:H1VA | 2:A:187:RCY:H1S  | 0.62     | 1.69        | 87     | 1     |
| 1:A:64:ILE:HD13  | 2:A:160:RCY:H1CB | 0.62     | 1.70        | 96     | 1     |
| 1:A:72:ALA:O     | 1:A:74:ASN:N     | 0.62     | 2.33        | 78     | 17    |
| 2:A:121:RCY:C1C  | 2:A:121:RCY:C1P  | 0.62     | 2.71        | 62     | 6     |
| 2:A:130:RCY:H1Y  | 2:A:173:RCY:N1R  | 0.62     | 2.09        | 15     | 1     |
| 1:A:66:VAL:HA    | 2:A:160:RCY:N1V  | 0.62     | 2.04        | 68     | 1     |
| 1:A:62:THR:HG21  | 2:A:168:RCY:H1VA | 0.62     | 1.72        | 75     | 1     |
| 2:A:138:RCY:O1H  | 2:A:138:RCY:O1G  | 0.62     | 1.76        | 2      | 1     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:C1W  | 0.62     | 2.66        | 6      | 1     |
| 1:A:61:GLY:C     | 2:A:138:RCY:H1VA | 0.62     | 2.15        | 7      | 1     |
| 1:A:68:CYS:HB2   | 2:A:160:RCY:H1Y  | 0.62     | 0.65        | 19     | 1     |
| 1:A:59:GLY:H     | 2:A:160:RCY:C1S  | 0.62     | 2.08        | 85     | 1     |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:H1M  | 0.61     | 1.72        | 15     | 1     |
| 2:A:138:RCY:H1VA | 2:A:150:RCY:H1ZA | 0.61     | 1.71        | 26     | 1     |
| 2:A:150:RCY:H1M  | 2:A:187:RCY:C1P  | 0.61     | 1.92        | 27     | 1     |
| 2:A:150:RCY:C1C  | 2:A:173:RCY:H1VB | 0.61     | 2.21        | 31     | 1     |
| 2:A:160:RCY:C1W  | 2:A:168:RCY:C1C  | 0.61     | 2.70        | 47     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:62:THR:OG1   | 2:A:168:RCY:H1LA | 0.61     | 1.91        | 72     | 1     |
| 1:A:67:ILE:HG23  | 2:A:168:RCY:O1G  | 0.61     | 1.95        | 76     | 1     |
| 1:A:63:ASP:O     | 2:A:168:RCY:C1S  | 0.61     | 2.48        | 80     | 1     |
| 1:A:65:THR:CB    | 2:A:168:RCY:H1S  | 0.61     | 2.25        | 87     | 1     |
| 1:A:66:VAL:HG11  | 2:A:121:RCY:H1VA | 0.61     | 1.70        | 93     | 1     |
| 1:A:64:ILE:C     | 1:A:68:CYS:SG    | 0.61     | 2.79        | 87     | 11    |
| 1:A:62:THR:CB    | 2:A:130:RCY:H1V  | 0.61     | 2.23        | 9      | 1     |
| 1:A:62:THR:CG2   | 2:A:130:RCY:C1X  | 0.61     | 2.78        | 18     | 1     |
| 1:A:70:TRP:HB2   | 2:A:176:RCY:H1ZA | 0.61     | 0.67        | 18     | 1     |
| 1:A:66:VAL:HB    | 2:A:150:RCY:H1M  | 0.61     | 1.72        | 31     | 1     |
| 1:A:71:GLU:CB    | 2:A:168:RCY:N1R  | 0.61     | 2.63        | 37     | 1     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:O1H  | 0.61     | 2.53        | 41     | 1     |
| 1:A:64:ILE:N     | 1:A:67:ILE:O     | 0.61     | 2.33        | 68     | 2     |
| 2:A:130:RCY:H1Y  | 2:A:160:RCY:H1V  | 0.61     | 1.71        | 61     | 1     |
| 2:A:130:RCY:C1Z  | 2:A:160:RCY:C1C  | 0.61     | 2.78        | 69     | 1     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:C1C  | 0.61     | 2.01        | 69     | 1     |
| 1:A:67:ILE:CG2   | 2:A:138:RCY:C1Q  | 0.61     | 2.73        | 72     | 1     |
| 1:A:70:TRP:CD2   | 2:A:187:RCY:H1Z  | 0.61     | 1.91        | 76     | 1     |
| 1:A:64:ILE:CA    | 2:A:168:RCY:C1Z  | 0.61     | 2.78        | 78     | 1     |
| 2:A:176:RCY:H1Y  | 2:A:187:RCY:O1G  | 0.61     | 1.55        | 90     | 1     |
| 1:A:65:THR:O     | 2:A:168:RCY:C1L  | 0.61     | 2.47        | 93     | 1     |
| 2:A:138:RCY:H1C  | 2:A:168:RCY:C1Z  | 0.61     | 2.25        | 97     | 1     |
| 2:A:168:RCY:H1ZB | 2:A:187:RCY:H1CB | 0.61     | 1.71        | 3      | 1     |
| 2:A:173:RCY:O1J  | 2:A:187:RCY:H1VA | 0.61     | 1.94        | 8      | 1     |
| 2:A:168:RCY:C1U  | 2:A:173:RCY:H1Z  | 0.61     | 2.25        | 10     | 1     |
| 2:A:160:RCY:H1ZA | 2:A:168:RCY:H1U  | 0.61     | 1.73        | 41     | 1     |
| 2:A:138:RCY:C1M  | 2:A:150:RCY:O1H  | 0.61     | 2.48        | 60     | 1     |
| 1:A:68:CYS:C     | 2:A:168:RCY:C1V  | 0.61     | 2.62        | 63     | 1     |
| 2:A:138:RCY:H1C  | 2:A:187:RCY:C1V  | 0.61     | 2.24        | 63     | 1     |
| 1:A:71:GLU:H     | 2:A:168:RCY:C1S  | 0.61     | 2.07        | 83     | 1     |
| 1:A:71:GLU:C     | 2:A:173:RCY:C1P  | 0.61     | 2.68        | 94     | 1     |
| 1:A:73:CYS:N     | 2:A:173:RCY:C1Q  | 0.61     | 2.58        | 16     | 3     |
| 2:A:150:RCY:H1YA | 2:A:160:RCY:C1V  | 0.61     | 2.25        | 42     | 1     |
| 2:A:160:RCY:C1V  | 2:A:168:RCY:C1U  | 0.61     | 1.90        | 44     | 1     |
| 2:A:168:RCY:H1U  | 2:A:173:RCY:C1U  | 0.61     | 2.24        | 48     | 1     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:H1VB | 0.61     | 2.28        | 56     | 1     |
| 2:A:138:RCY:C1P  | 2:A:187:RCY:C1C  | 0.61     | 2.77        | 5      | 1     |
| 1:A:71:GLU:O     | 2:A:187:RCY:H1VA | 0.61     | 1.95        | 34     | 1     |
| 1:A:75:HIS:NE2   | 2:A:173:RCY:O1H  | 0.61     | 2.33        | 42     | 1     |
| 1:A:62:THR:CG2   | 2:A:160:RCY:H1V  | 0.61     | 2.11        | 55     | 1     |
| 2:A:173:RCY:O1G  | 2:A:187:RCY:C1X  | 0.61     | 2.48        | 89     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:70:TRP:HB2   | 2:A:176:RCY:O1J  | 0.61     | 1.94        | 76     | 3     |
| 2:A:150:RCY:O1G  | 2:A:187:RCY:C1X  | 0.61     | 2.48        | 18     | 1     |
| 2:A:176:RCY:H1Z  | 2:A:187:RCY:C1C  | 0.61     | 2.26        | 29     | 1     |
| 1:A:74:ASN:ND2   | 1:A:74:ASN:H     | 0.61     | 1.92        | 100    | 1     |
| 2:A:168:RCY:C1C  | 2:A:173:RCY:C1C  | 0.61     | 2.78        | 3      | 1     |
| 2:A:176:RCY:C1Z  | 2:A:187:RCY:C1X  | 0.61     | 2.69        | 10     | 1     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:H1CA | 0.61     | 2.23        | 20     | 1     |
| 1:A:72:ALA:HB2   | 2:A:173:RCY:H1U  | 0.61     | 1.72        | 30     | 1     |
| 1:A:70:TRP:CD1   | 2:A:173:RCY:C1Z  | 0.61     | 2.84        | 94     | 2     |
| 2:A:130:RCY:N1V  | 2:A:130:RCY:C1C  | 0.61     | 2.63        | 79     | 1     |
| 1:A:63:ASP:HB2   | 2:A:150:RCY:H1Z  | 0.61     | 1.73        | 80     | 1     |
| 1:A:78:LEU:CD1   | 2:A:187:RCY:C1C  | 0.61     | 2.79        | 91     | 1     |
| 1:A:61:GLY:O     | 1:A:63:ASP:N     | 0.61     | 2.34        | 69     | 20    |
| 2:A:176:RCY:H1Z  | 2:A:187:RCY:H1CB | 0.61     | 1.71        | 2      | 1     |
| 2:A:130:RCY:H1CA | 2:A:160:RCY:C1C  | 0.61     | 2.20        | 8      | 1     |
| 1:A:73:CYS:O     | 1:A:74:ASN:ND2   | 0.61     | 2.34        | 16     | 5     |
| 1:A:60:CYS:N     | 2:A:160:RCY:H1S  | 0.61     | 2.08        | 28     | 1     |
| 2:A:173:RCY:O1H  | 2:A:187:RCY:O1J  | 0.61     | 2.19        | 54     | 1     |
| 1:A:69:PRO:CA    | 2:A:173:RCY:O1H  | 0.61     | 2.47        | 81     | 2     |
| 1:A:66:VAL:CG1   | 2:A:121:RCY:C1U  | 0.61     | 2.79        | 4      | 1     |
| 1:A:75:HIS:O     | 1:A:77:GLU:N     | 0.61     | 2.33        | 99     | 13    |
| 1:A:62:THR:OG1   | 1:A:63:ASP:N     | 0.61     | 2.32        | 99     | 9     |
| 2:A:138:RCY:H1Y  | 2:A:187:RCY:H1YB | 0.61     | 1.67        | 32     | 1     |
| 1:A:70:TRP:CB    | 2:A:168:RCY:C1L  | 0.61     | 2.75        | 94     | 2     |
| 2:A:173:RCY:O1H  | 2:A:176:RCY:H1M  | 0.61     | 1.96        | 63     | 2     |
| 2:A:138:RCY:C1M  | 2:A:160:RCY:C1C  | 0.61     | 2.61        | 69     | 1     |
| 1:A:71:GLU:N     | 1:A:71:GLU:OE1   | 0.61     | 2.34        | 74     | 1     |
| 1:A:64:ILE:HB    | 2:A:168:RCY:H1ZA | 0.61     | 1.48        | 78     | 1     |
| 1:A:65:THR:O     | 2:A:121:RCY:H1Y  | 0.61     | 1.96        | 83     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:160:RCY:C1V  | 0.61     | 2.71        | 91     | 1     |
| 2:A:138:RCY:H1C  | 2:A:168:RCY:H1ZB | 0.61     | 1.71        | 97     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:O1J  | 0.61     | 2.47        | 98     | 1     |
| 1:A:64:ILE:CG2   | 2:A:168:RCY:H1L  | 0.61     | 2.08        | 77     | 2     |
| 2:A:168:RCY:H1YB | 2:A:187:RCY:C1Y  | 0.61     | 2.26        | 7      | 1     |
| 2:A:173:RCY:O1J  | 2:A:187:RCY:C1C  | 0.61     | 2.49        | 61     | 2     |
| 2:A:160:RCY:C1V  | 2:A:160:RCY:C1Q  | 0.61     | 2.79        | 35     | 10    |
| 1:A:75:HIS:C     | 1:A:77:GLU:H     | 0.61     | 2.00        | 99     | 8     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:C1L  | 0.61     | 2.25        | 17     | 1     |
| 1:A:64:ILE:O     | 1:A:64:ILE:CG2   | 0.61     | 2.49        | 100    | 4     |
| 1:A:77:GLU:HB2   | 2:A:173:RCY:C1P  | 0.61     | 2.26        | 32     | 1     |
| 2:A:176:RCY:H1M  | 2:A:187:RCY:C1U  | 0.61     | 2.15        | 48     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:150:RCY:C1C  | 2:A:150:RCY:O1H  | 0.61     | 2.48        | 50     | 1     |
| 1:A:67:ILE:HA    | 2:A:168:RCY:C1P  | 0.61     | 2.26        | 58     | 1     |
| 1:A:75:HIS:CA    | 2:A:168:RCY:H1ZB | 0.61     | 2.24        | 73     | 1     |
| 1:A:64:ILE:CB    | 2:A:168:RCY:H1M  | 0.61     | 2.25        | 95     | 1     |
| 1:A:65:THR:O     | 1:A:67:ILE:N     | 0.60     | 2.34        | 93     | 27    |
| 2:A:168:RCY:H1C  | 2:A:173:RCY:C1Q  | 0.60     | 2.26        | 8      | 1     |
| 1:A:74:ASN:C     | 2:A:173:RCY:C1P  | 0.60     | 2.65        | 15     | 1     |
| 2:A:173:RCY:C1P  | 2:A:173:RCY:H1CA | 0.60     | 2.26        | 38     | 5     |
| 2:A:138:RCY:H1YA | 2:A:187:RCY:C1M  | 0.60     | 2.18        | 82     | 1     |
| 1:A:66:VAL:HG11  | 2:A:121:RCY:C1Z  | 0.60     | 2.21        | 89     | 1     |
| 1:A:71:GLU:CD    | 2:A:173:RCY:C1V  | 0.60     | 2.69        | 94     | 1     |
| 1:A:62:THR:HB    | 2:A:160:RCY:H1M  | 0.60     | 1.73        | 97     | 1     |
| 1:A:65:THR:HB    | 2:A:160:RCY:C1Y  | 0.60     | 2.23        | 100    | 1     |
| 1:A:63:ASP:OD1   | 1:A:63:ASP:N     | 0.60     | 2.34        | 40     | 13    |
| 2:A:110:RCY:C1C  | 2:A:110:RCY:C1P  | 0.60     | 2.75        | 11     | 6     |
| 1:A:75:HIS:O     | 1:A:76:CYS:SG    | 0.60     | 2.59        | 17     | 12    |
| 1:A:73:CYS:SG    | 1:A:74:ASN:N     | 0.60     | 2.74        | 61     | 6     |
| 1:A:65:THR:O     | 1:A:66:VAL:C     | 0.60     | 2.36        | 93     | 11    |
| 2:A:138:RCY:H1VB | 2:A:150:RCY:O1J  | 0.60     | 1.96        | 53     | 2     |
| 1:A:70:TRP:HD1   | 2:A:173:RCY:O1G  | 0.60     | 1.65        | 44     | 1     |
| 1:A:74:ASN:HB3   | 2:A:176:RCY:O1G  | 0.60     | 1.94        | 52     | 1     |
| 1:A:71:GLU:OE2   | 2:A:150:RCY:H1U  | 0.60     | 1.88        | 58     | 1     |
| 1:A:63:ASP:OD2   | 2:A:160:RCY:C1W  | 0.60     | 2.47        | 73     | 1     |
| 1:A:66:VAL:HA    | 2:A:121:RCY:H1YB | 0.60     | 1.73        | 83     | 1     |
| 2:A:150:RCY:O1J  | 2:A:176:RCY:H1L  | 0.60     | 1.95        | 3      | 1     |
| 2:A:150:RCY:C1C  | 2:A:150:RCY:C1P  | 0.60     | 2.74        | 19     | 5     |
| 1:A:59:GLY:O     | 1:A:60:CYS:SG    | 0.60     | 2.59        | 41     | 9     |
| 2:A:121:RCY:C1Z  | 2:A:121:RCY:O1H  | 0.60     | 2.46        | 14     | 1     |
| 2:A:138:RCY:N1V  | 2:A:173:RCY:H1ZB | 0.60     | 2.10        | 15     | 1     |
| 1:A:73:CYS:C     | 2:A:173:RCY:H1S  | 0.60     | 2.17        | 90     | 2     |
| 1:A:70:TRP:HD1   | 2:A:176:RCY:H1L  | 0.60     | 1.55        | 32     | 1     |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:C1L  | 0.60     | 2.70        | 38     | 1     |
| 1:A:64:ILE:HG23  | 2:A:168:RCY:H1CB | 0.60     | 1.67        | 54     | 1     |
| 1:A:70:TRP:CG    | 2:A:173:RCY:H1M  | 0.60     | 2.30        | 84     | 1     |
| 1:A:73:CYS:N     | 2:A:168:RCY:H1ZB | 0.60     | 2.11        | 99     | 1     |
| 2:A:168:RCY:C1U  | 2:A:173:RCY:C1C  | 0.60     | 2.74        | 20     | 1     |
| 2:A:168:RCY:H1Y  | 2:A:187:RCY:H1ZB | 0.60     | 0.62        | 21     | 1     |
| 1:A:75:HIS:C     | 2:A:173:RCY:H1C  | 0.60     | 2.17        | 73     | 1     |
| 1:A:66:VAL:CG1   | 2:A:121:RCY:N1V  | 0.60     | 2.65        | 83     | 1     |
| 1:A:67:ILE:HG13  | 2:A:176:RCY:H1CA | 0.60     | 1.72        | 89     | 1     |
| 2:A:168:RCY:O1J  | 2:A:176:RCY:N1V  | 0.60     | 2.34        | 89     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:72:ALA:N     | 2:A:121:RCY:O1J  | 0.60     | 2.35        | 94     | 1     |
| 1:A:59:GLY:HA3   | 2:A:160:RCY:H1V  | 0.60     | 1.72        | 2      | 1     |
| 1:A:71:GLU:CA    | 2:A:173:RCY:C1Y  | 0.60     | 2.57        | 33     | 1     |
| 1:A:70:TRP:O     | 2:A:150:RCY:C1P  | 0.60     | 2.50        | 34     | 1     |
| 2:A:150:RCY:C1V  | 2:A:160:RCY:C1U  | 0.60     | 2.79        | 42     | 1     |
| 1:A:64:ILE:HG21  | 2:A:160:RCY:C1W  | 0.60     | 2.25        | 49     | 1     |
| 2:A:138:RCY:H1VA | 2:A:150:RCY:H1VB | 0.60     | 1.57        | 67     | 1     |
| 1:A:72:ALA:HB1   | 2:A:110:RCY:H1ZB | 0.60     | 1.72        | 70     | 1     |
| 2:A:138:RCY:H1Y  | 2:A:160:RCY:O1H  | 0.60     | 1.91        | 73     | 1     |
| 2:A:173:RCY:H1ZA | 2:A:187:RCY:O1H  | 0.60     | 1.58        | 81     | 1     |
| 1:A:70:TRP:HE1   | 2:A:176:RCY:C1V  | 0.60     | 2.10        | 82     | 1     |
| 1:A:67:ILE:HG23  | 2:A:168:RCY:H1U  | 0.60     | 1.71        | 83     | 1     |
| 2:A:121:RCY:C1V  | 2:A:121:RCY:C1L  | 0.60     | 2.79        | 88     | 1     |
| 2:A:173:RCY:O1G  | 2:A:187:RCY:H1VA | 0.60     | 1.96        | 89     | 1     |
| 2:A:168:RCY:O1H  | 2:A:173:RCY:H1VA | 0.60     | 1.95        | 3      | 1     |
| 1:A:67:ILE:O     | 2:A:173:RCY:H1CB | 0.60     | 1.96        | 24     | 1     |
| 2:A:150:RCY:C1P  | 2:A:150:RCY:H1VB | 0.60     | 2.26        | 49     | 2     |
| 2:A:138:RCY:O1H  | 2:A:150:RCY:C1L  | 0.60     | 2.48        | 41     | 1     |
| 2:A:173:RCY:C1V  | 2:A:173:RCY:C1Q  | 0.60     | 2.79        | 41     | 3     |
| 1:A:71:GLU:HA    | 2:A:173:RCY:H1S  | 0.60     | 1.72        | 49     | 1     |
| 1:A:60:CYS:CB    | 2:A:168:RCY:C1Y  | 0.60     | 2.80        | 52     | 1     |
| 1:A:67:ILE:HG23  | 1:A:71:GLU:O     | 0.60     | 1.97        | 61     | 1     |
| 1:A:63:ASP:OD2   | 2:A:160:RCY:C1V  | 0.60     | 2.49        | 63     | 1     |
| 1:A:69:PRO:CG    | 2:A:187:RCY:H1VA | 0.60     | 2.26        | 72     | 2     |
| 1:A:76:CYS:SG    | 2:A:187:RCY:C1X  | 0.60     | 2.77        | 73     | 1     |
| 1:A:70:TRP:CH2   | 1:A:71:GLU:OE2   | 0.60     | 2.54        | 86     | 1     |
| 1:A:62:THR:CB    | 2:A:138:RCY:H1ZB | 0.60     | 2.26        | 38     | 1     |
| 1:A:64:ILE:O     | 1:A:64:ILE:HD13  | 0.60     | 1.97        | 73     | 2     |
| 2:A:168:RCY:H1Z  | 2:A:176:RCY:H1ZB | 0.60     | 1.73        | 60     | 1     |
| 1:A:59:GLY:O     | 2:A:168:RCY:C1C  | 0.60     | 2.50        | 80     | 1     |
| 1:A:62:THR:HG23  | 2:A:160:RCY:C1L  | 0.60     | 2.25        | 82     | 1     |
| 2:A:150:RCY:O1J  | 2:A:187:RCY:N1R  | 0.60     | 2.33        | 84     | 1     |
| 1:A:74:ASN:HA    | 2:A:176:RCY:C1V  | 0.60     | 2.16        | 100    | 1     |
| 2:A:130:RCY:C1X  | 2:A:160:RCY:C1Q  | 0.60     | 2.72        | 8      | 1     |
| 2:A:130:RCY:C1Q  | 2:A:130:RCY:C1V  | 0.60     | 2.80        | 90     | 6     |
| 1:A:61:GLY:C     | 1:A:62:THR:HG22  | 0.60     | 2.16        | 23     | 2     |
| 1:A:65:THR:CB    | 2:A:160:RCY:H1L  | 0.60     | 2.26        | 35     | 1     |
| 1:A:69:PRO:HA    | 2:A:168:RCY:H1VA | 0.60     | 1.72        | 63     | 1     |
| 1:A:67:ILE:HG13  | 2:A:168:RCY:C1V  | 0.60     | 2.27        | 83     | 1     |
| 2:A:138:RCY:H1YB | 2:A:187:RCY:H1VA | 0.60     | 1.74        | 84     | 1     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:H1MA | 0.60     | 2.27        | 4      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:70:TRP:CE3   | 2:A:176:RCY:H1ZA | 0.60     | 2.29        | 4      | 1     |
| 2:A:176:RCY:O1H  | 2:A:176:RCY:H1CB | 0.60     | 1.97        | 11     | 2     |
| 1:A:70:TRP:O     | 2:A:187:RCY:C1Y  | 0.60     | 2.45        | 16     | 1     |
| 2:A:121:RCY:C1V  | 2:A:121:RCY:O1H  | 0.60     | 2.50        | 22     | 1     |
| 1:A:70:TRP:HA    | 2:A:168:RCY:H1ZB | 0.60     | 1.73        | 36     | 1     |
| 1:A:73:CYS:HB3   | 2:A:176:RCY:C1V  | 0.60     | 2.26        | 62     | 1     |
| 2:A:173:RCY:H1ZA | 2:A:176:RCY:N1V  | 0.60     | 2.02        | 71     | 1     |
| 1:A:73:CYS:CB    | 2:A:168:RCY:H1ZA | 0.60     | 1.18        | 99     | 1     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:H1V  | 0.60     | 2.26        | 1      | 1     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:O1G  | 0.60     | 2.46        | 3      | 2     |
| 1:A:65:THR:HG21  | 2:A:130:RCY:C1C  | 0.60     | 2.25        | 9      | 1     |
| 1:A:70:TRP:N     | 2:A:176:RCY:C1Z  | 0.60     | 2.65        | 18     | 1     |
| 2:A:138:RCY:C1W  | 2:A:150:RCY:O1G  | 0.60     | 2.28        | 37     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:176:RCY:C1Z  | 0.60     | 2.77        | 41     | 1     |
| 2:A:173:RCY:N1R  | 2:A:187:RCY:C1Y  | 0.60     | 2.65        | 70     | 1     |
| 1:A:59:GLY:CA    | 2:A:160:RCY:C1M  | 0.60     | 2.43        | 78     | 1     |
| 1:A:67:ILE:CD1   | 2:A:130:RCY:C1Y  | 0.60     | 2.74        | 78     | 1     |
| 2:A:173:RCY:C1P  | 2:A:187:RCY:H1YA | 0.60     | 2.26        | 92     | 1     |
| 1:A:74:ASN:O     | 1:A:75:HIS:CG    | 0.59     | 2.55        | 90     | 8     |
| 2:A:160:RCY:H1S  | 2:A:168:RCY:H1VA | 0.59     | 1.74        | 9      | 1     |
| 2:A:173:RCY:H1Y  | 2:A:176:RCY:H1L  | 0.59     | 1.73        | 26     | 1     |
| 2:A:168:RCY:H1VB | 2:A:173:RCY:C1U  | 0.59     | 2.23        | 29     | 1     |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:N1R  | 0.59     | 2.65        | 38     | 1     |
| 1:A:62:THR:HG23  | 1:A:63:ASP:N     | 0.59     | 2.12        | 74     | 2     |
| 2:A:138:RCY:H1ZB | 2:A:187:RCY:C1C  | 0.59     | 2.09        | 44     | 1     |
| 1:A:64:ILE:CB    | 2:A:160:RCY:C1M  | 0.59     | 2.79        | 47     | 1     |
| 1:A:68:CYS:H     | 2:A:168:RCY:C1Q  | 0.59     | 2.10        | 53     | 1     |
| 1:A:70:TRP:CE2   | 1:A:71:GLU:CG    | 0.59     | 2.85        | 86     | 1     |
| 2:A:173:RCY:H1Y  | 2:A:176:RCY:C1Y  | 0.59     | 2.15        | 23     | 1     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:H1L  | 0.59     | 2.26        | 24     | 1     |
| 2:A:130:RCY:O1G  | 2:A:160:RCY:C1Y  | 0.59     | 2.42        | 40     | 1     |
| 1:A:70:TRP:NE1   | 2:A:121:RCY:C1V  | 0.59     | 2.61        | 49     | 1     |
| 2:A:173:RCY:C1P  | 2:A:187:RCY:C1Z  | 0.59     | 2.79        | 75     | 1     |
| 1:A:69:PRO:CD    | 2:A:150:RCY:C1V  | 0.59     | 2.81        | 85     | 1     |
| 1:A:71:GLU:CG    | 2:A:187:RCY:O1G  | 0.59     | 2.49        | 92     | 1     |
| 2:A:173:RCY:C1X  | 2:A:187:RCY:H1MA | 0.59     | 2.28        | 93     | 1     |
| 2:A:173:RCY:O1J  | 2:A:187:RCY:C1Y  | 0.59     | 2.43        | 99     | 1     |
| 2:A:138:RCY:H1VA | 2:A:176:RCY:H1C  | 0.59     | 1.65        | 9      | 1     |
| 1:A:78:LEU:HD12  | 1:A:78:LEU:H     | 0.59     | 1.57        | 10     | 1     |
| 1:A:73:CYS:CA    | 2:A:173:RCY:C1Q  | 0.59     | 2.80        | 56     | 5     |
| 1:A:78:LEU:C     | 1:A:78:LEU:HD12  | 0.59     | 2.18        | 38     | 3     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:138:RCY:C1U  | 2:A:150:RCY:C1P  | 0.59     | 2.73        | 64     | 3     |
| 2:A:173:RCY:C1U  | 2:A:187:RCY:H1VA | 0.59     | 2.28        | 55     | 1     |
| 1:A:68:CYS:C     | 2:A:168:RCY:C1Q  | 0.59     | 2.03        | 57     | 1     |
| 2:A:138:RCY:H1YB | 2:A:187:RCY:H1Y  | 0.59     | 1.72        | 68     | 1     |
| 1:A:64:ILE:HG22  | 1:A:67:ILE:H     | 0.59     | 1.57        | 71     | 1     |
| 2:A:138:RCY:H1M  | 2:A:150:RCY:C1X  | 0.59     | 1.86        | 75     | 1     |
| 1:A:65:THR:HB    | 2:A:168:RCY:C1S  | 0.59     | 2.27        | 87     | 1     |
| 1:A:76:CYS:HA    | 2:A:187:RCY:O1G  | 0.59     | 1.96        | 34     | 1     |
| 1:A:64:ILE:HG21  | 1:A:68:CYS:N     | 0.59     | 2.12        | 83     | 3     |
| 2:A:160:RCY:C1X  | 2:A:168:RCY:C1C  | 0.59     | 2.70        | 49     | 1     |
| 2:A:173:RCY:C1L  | 2:A:187:RCY:H1Z  | 0.59     | 2.26        | 75     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:187:RCY:C1V  | 0.59     | 2.81        | 82     | 1     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:H1ZA | 0.59     | 2.26        | 93     | 1     |
| 1:A:70:TRP:HB3   | 2:A:173:RCY:C1V  | 0.59     | 2.28        | 76     | 2     |
| 1:A:78:LEU:HD13  | 1:A:78:LEU:H     | 0.59     | 1.58        | 12     | 3     |
| 1:A:74:ASN:O     | 1:A:76:CYS:N     | 0.59     | 2.35        | 20     | 11    |
| 2:A:138:RCY:C1Z  | 2:A:187:RCY:H1YB | 0.59     | 2.18        | 32     | 1     |
| 1:A:71:GLU:N     | 2:A:173:RCY:O1H  | 0.59     | 2.20        | 49     | 1     |
| 1:A:62:THR:OG1   | 1:A:65:THR:N     | 0.59     | 2.35        | 53     | 4     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:H1Y  | 0.59     | 2.18        | 54     | 1     |
| 1:A:71:GLU:CD    | 2:A:150:RCY:O1G  | 0.59     | 2.41        | 58     | 1     |
| 1:A:61:GLY:HA2   | 2:A:168:RCY:H1MA | 0.59     | 1.74        | 95     | 1     |
| 1:A:71:GLU:CG    | 2:A:150:RCY:N1V  | 0.59     | 2.65        | 96     | 1     |
| 2:A:173:RCY:C1Q  | 2:A:173:RCY:C1V  | 0.59     | 2.79        | 10     | 3     |
| 1:A:60:CYS:SG    | 1:A:61:GLY:N     | 0.59     | 2.75        | 32     | 5     |
| 2:A:176:RCY:C1Q  | 2:A:176:RCY:H1CA | 0.59     | 2.27        | 97     | 2     |
| 2:A:168:RCY:C1C  | 2:A:173:RCY:C1V  | 0.59     | 2.77        | 41     | 1     |
| 2:A:168:RCY:H1Y  | 2:A:173:RCY:C1V  | 0.59     | 1.35        | 45     | 1     |
| 1:A:62:THR:C     | 2:A:160:RCY:C1C  | 0.59     | 2.65        | 46     | 1     |
| 2:A:168:RCY:C1C  | 2:A:168:RCY:C1Q  | 0.59     | 2.78        | 54     | 2     |
| 2:A:173:RCY:H1YA | 2:A:176:RCY:H1M  | 0.59     | 1.57        | 99     | 1     |
| 2:A:138:RCY:C1W  | 2:A:187:RCY:C1Z  | 0.59     | 2.70        | 3      | 1     |
| 1:A:70:TRP:CA    | 2:A:176:RCY:C1C  | 0.59     | 2.74        | 13     | 1     |
| 2:A:138:RCY:N1R  | 2:A:138:RCY:H1U  | 0.59     | 2.02        | 25     | 1     |
| 2:A:173:RCY:H1Z  | 2:A:187:RCY:H1V  | 0.59     | 1.70        | 32     | 1     |
| 2:A:110:RCY:C1Z  | 2:A:121:RCY:H1C  | 0.59     | 2.26        | 33     | 1     |
| 2:A:160:RCY:H1U  | 2:A:168:RCY:H1S  | 0.59     | 1.67        | 34     | 1     |
| 2:A:173:RCY:O1G  | 2:A:176:RCY:H1M  | 0.59     | 1.97        | 41     | 1     |
| 1:A:76:CYS:HB2   | 2:A:173:RCY:H1Y  | 0.59     | 1.74        | 42     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:176:RCY:C1Z  | 0.59     | 2.77        | 42     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:150:RCY:H1YB | 0.59     | 2.21        | 47     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:64:ILE:HD11  | 2:A:168:RCY:H1VB | 0.59     | 1.74        | 58     | 1     |
| 2:A:130:RCY:N1R  | 2:A:160:RCY:O1G  | 0.59     | 2.35        | 62     | 1     |
| 1:A:59:GLY:O     | 1:A:61:GLY:N     | 0.59     | 2.35        | 63     | 12    |
| 1:A:68:CYS:HB2   | 2:A:173:RCY:H1YB | 0.59     | 1.75        | 4      | 1     |
| 2:A:130:RCY:C1V  | 2:A:130:RCY:C1Q  | 0.59     | 2.79        | 70     | 8     |
| 1:A:76:CYS:HA    | 2:A:173:RCY:H1L  | 0.59     | 1.72        | 28     | 1     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:N1R  | 0.59     | 2.66        | 34     | 1     |
| 1:A:71:GLU:CD    | 2:A:176:RCY:H1LA | 0.59     | 2.17        | 40     | 1     |
| 1:A:65:THR:HG22  | 1:A:68:CYS:SG    | 0.59     | 2.38        | 59     | 1     |
| 2:A:130:RCY:H1YB | 2:A:160:RCY:H1V  | 0.59     | 1.74        | 61     | 1     |
| 2:A:121:RCY:C1L  | 2:A:121:RCY:H1VB | 0.59     | 2.27        | 88     | 1     |
| 2:A:168:RCY:C1C  | 2:A:168:RCY:C1P  | 0.59     | 2.81        | 43     | 2     |
| 1:A:74:ASN:N     | 1:A:74:ASN:HD22  | 0.59     | 1.95        | 11     | 1     |
| 2:A:160:RCY:H1ZB | 2:A:168:RCY:C1P  | 0.59     | 2.17        | 34     | 1     |
| 2:A:121:RCY:H1VB | 2:A:168:RCY:H1YB | 0.59     | 1.65        | 49     | 1     |
| 1:A:75:HIS:CD2   | 1:A:75:HIS:O     | 0.59     | 2.56        | 65     | 1     |
| 2:A:173:RCY:H1CB | 2:A:187:RCY:H1Y  | 0.59     | 1.73        | 70     | 1     |
| 1:A:59:GLY:H     | 2:A:138:RCY:C1S  | 0.59     | 2.10        | 73     | 1     |
| 1:A:64:ILE:HB    | 2:A:160:RCY:H1ZA | 0.59     | 1.75        | 78     | 1     |
| 2:A:138:RCY:H1VA | 2:A:187:RCY:C1S  | 0.59     | 2.27        | 93     | 1     |
| 2:A:160:RCY:H1CA | 2:A:168:RCY:H1M  | 0.59     | 1.73        | 96     | 1     |
| 1:A:74:ASN:O     | 2:A:173:RCY:C1P  | 0.59     | 2.51        | 15     | 1     |
| 1:A:64:ILE:HG21  | 2:A:160:RCY:H1YB | 0.59     | 0.66        | 49     | 2     |
| 1:A:62:THR:HG1   | 2:A:168:RCY:C1L  | 0.59     | 1.98        | 23     | 2     |
| 2:A:130:RCY:C1Q  | 2:A:130:RCY:H1VB | 0.59     | 2.27        | 42     | 2     |
| 2:A:173:RCY:H1MA | 2:A:176:RCY:H1ZA | 0.59     | 1.73        | 41     | 1     |
| 1:A:74:ASN:H     | 1:A:74:ASN:HD22  | 0.59     | 1.39        | 100    | 1     |
| 1:A:67:ILE:H     | 2:A:168:RCY:H1CB | 0.58     | 1.58        | 30     | 1     |
| 2:A:160:RCY:H1C  | 2:A:168:RCY:O1H  | 0.58     | 1.88        | 39     | 1     |
| 2:A:173:RCY:O1H  | 2:A:187:RCY:H1M  | 0.58     | 1.98        | 40     | 1     |
| 2:A:187:RCY:C1P  | 2:A:187:RCY:H1CA | 0.58     | 2.28        | 80     | 4     |
| 1:A:59:GLY:C     | 2:A:160:RCY:C1S  | 0.58     | 2.54        | 85     | 2     |
| 1:A:75:HIS:O     | 2:A:176:RCY:H1CB | 0.58     | 1.97        | 62     | 1     |
| 2:A:138:RCY:H1M  | 2:A:187:RCY:H1Y  | 0.58     | 1.74        | 71     | 1     |
| 2:A:110:RCY:N1R  | 2:A:110:RCY:C1M  | 0.58     | 2.61        | 79     | 1     |
| 2:A:160:RCY:C1X  | 2:A:160:RCY:H1U  | 0.58     | 2.10        | 79     | 1     |
| 2:A:138:RCY:H1YB | 2:A:187:RCY:H1V  | 0.58     | 1.75        | 84     | 1     |
| 2:A:187:RCY:C1V  | 2:A:187:RCY:C1Q  | 0.58     | 2.81        | 95     | 6     |
| 1:A:70:TRP:HB3   | 2:A:121:RCY:H1VB | 0.58     | 1.66        | 30     | 1     |
| 1:A:76:CYS:HA    | 2:A:176:RCY:C1P  | 0.58     | 2.27        | 31     | 1     |
| 2:A:176:RCY:H1VB | 2:A:187:RCY:H1ZA | 0.58     | 1.73        | 57     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:150:RCY:H1C  | 2:A:187:RCY:O1J  | 0.58     | 1.98        | 66     | 1     |
| 1:A:76:CYS:SG    | 2:A:187:RCY:C1C  | 0.58     | 2.91        | 73     | 1     |
| 2:A:176:RCY:H1U  | 2:A:187:RCY:H1VB | 0.58     | 1.69        | 81     | 1     |
| 1:A:78:LEU:CD2   | 2:A:176:RCY:H1ZA | 0.58     | 2.27        | 91     | 1     |
| 2:A:130:RCY:C1V  | 2:A:187:RCY:H1VB | 0.58     | 2.22        | 94     | 1     |
| 2:A:110:RCY:O1J  | 2:A:121:RCY:H1VA | 0.58     | 1.84        | 5      | 1     |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:H1VA | 0.58     | 2.28        | 8      | 1     |
| 1:A:62:THR:O     | 2:A:168:RCY:H1C  | 0.58     | 1.98        | 30     | 1     |
| 1:A:67:ILE:CG2   | 2:A:130:RCY:C1W  | 0.58     | 2.81        | 30     | 1     |
| 1:A:63:ASP:HA    | 2:A:168:RCY:O1H  | 0.58     | 1.98        | 50     | 1     |
| 2:A:176:RCY:C1Z  | 2:A:187:RCY:C1S  | 0.58     | 2.81        | 58     | 1     |
| 1:A:76:CYS:CA    | 2:A:187:RCY:O1J  | 0.58     | 2.25        | 73     | 1     |
| 2:A:168:RCY:O1G  | 2:A:173:RCY:H1C  | 0.58     | 1.96        | 81     | 1     |
| 1:A:63:ASP:O     | 2:A:150:RCY:H1V  | 0.58     | 1.96        | 85     | 1     |
| 1:A:71:GLU:CD    | 2:A:173:RCY:H1L  | 0.58     | 2.17        | 88     | 1     |
| 1:A:63:ASP:HB3   | 2:A:168:RCY:C1C  | 0.58     | 2.28        | 5      | 1     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:C1M  | 0.58     | 2.81        | 6      | 1     |
| 2:A:168:RCY:C1X  | 2:A:173:RCY:C1Y  | 0.58     | 2.37        | 21     | 1     |
| 1:A:65:THR:O     | 1:A:66:VAL:CG2   | 0.58     | 2.50        | 86     | 2     |
| 1:A:63:ASP:N     | 2:A:168:RCY:C1Y  | 0.58     | 2.65        | 30     | 1     |
| 1:A:67:ILE:H     | 2:A:150:RCY:H1YB | 0.58     | 1.57        | 31     | 1     |
| 1:A:65:THR:CG2   | 2:A:160:RCY:H1ZB | 0.58     | 2.21        | 100    | 1     |
| 1:A:78:LEU:H     | 1:A:78:LEU:CD1   | 0.58     | 2.12        | 10     | 1     |
| 1:A:67:ILE:HG21  | 2:A:173:RCY:H1YB | 0.58     | 1.68        | 80     | 1     |
| 2:A:176:RCY:H1CB | 2:A:187:RCY:O1G  | 0.58     | 1.99        | 88     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:160:RCY:O1G  | 0.58     | 2.51        | 91     | 1     |
| 1:A:73:CYS:N     | 2:A:168:RCY:C1Z  | 0.58     | 2.65        | 99     | 1     |
| 1:A:75:HIS:O     | 1:A:75:HIS:CG    | 0.58     | 2.57        | 65     | 7     |
| 1:A:70:TRP:CA    | 2:A:173:RCY:C1L  | 0.58     | 2.81        | 6      | 1     |
| 2:A:138:RCY:H1CA | 2:A:160:RCY:H1VA | 0.58     | 1.69        | 27     | 1     |
| 1:A:74:ASN:ND2   | 1:A:75:HIS:H     | 0.58     | 1.97        | 29     | 3     |
| 2:A:150:RCY:C1Q  | 2:A:150:RCY:C1V  | 0.58     | 2.82        | 74     | 6     |
| 2:A:176:RCY:C1W  | 2:A:187:RCY:C1C  | 0.58     | 2.53        | 87     | 1     |
| 2:A:138:RCY:H1VB | 2:A:150:RCY:H1VA | 0.58     | 1.60        | 19     | 1     |
| 1:A:69:PRO:HD3   | 2:A:168:RCY:O1H  | 0.58     | 1.86        | 23     | 1     |
| 1:A:64:ILE:HD12  | 2:A:160:RCY:H1V  | 0.58     | 1.75        | 49     | 1     |
| 1:A:65:THR:CB    | 2:A:150:RCY:H1LA | 0.58     | 2.29        | 50     | 1     |
| 1:A:71:GLU:OE2   | 2:A:173:RCY:H1VA | 0.58     | 1.99        | 56     | 1     |
| 1:A:69:PRO:HG2   | 2:A:160:RCY:C1Y  | 0.58     | 2.28        | 73     | 2     |
| 1:A:69:PRO:CG    | 2:A:168:RCY:H1V  | 0.58     | 2.29        | 63     | 1     |
| 2:A:130:RCY:H1ZA | 2:A:160:RCY:C1Z  | 0.58     | 2.29        | 73     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:C1C  | 2:A:187:RCY:H1YA | 0.58     | 2.22        | 87     | 1     |
| 1:A:74:ASN:O     | 2:A:173:RCY:H1S  | 0.58     | 1.99        | 90     | 1     |
| 2:A:150:RCY:C1C  | 2:A:150:RCY:O1G  | 0.58     | 2.51        | 22     | 3     |
| 2:A:168:RCY:C1W  | 2:A:176:RCY:N1V  | 0.58     | 2.57        | 11     | 1     |
| 1:A:60:CYS:O     | 1:A:62:THR:HG22  | 0.58     | 1.98        | 14     | 2     |
| 2:A:150:RCY:C1Q  | 2:A:150:RCY:C1C  | 0.58     | 2.80        | 14     | 2     |
| 1:A:65:THR:HA    | 2:A:168:RCY:O1J  | 0.58     | 1.98        | 24     | 1     |
| 2:A:168:RCY:C1C  | 2:A:176:RCY:H1YB | 0.58     | 2.28        | 74     | 1     |
| 1:A:70:TRP:CE2   | 2:A:187:RCY:H1ZB | 0.58     | 2.27        | 76     | 1     |
| 2:A:150:RCY:H1L  | 2:A:187:RCY:H1CA | 0.58     | 1.74        | 98     | 1     |
| 2:A:130:RCY:H1U  | 2:A:160:RCY:H1M  | 0.58     | 0.60        | 7      | 1     |
| 2:A:173:RCY:H1Y  | 2:A:176:RCY:H1YA | 0.58     | 1.76        | 23     | 1     |
| 2:A:121:RCY:H1Y  | 2:A:176:RCY:H1L  | 0.58     | 1.71        | 35     | 1     |
| 1:A:64:ILE:O     | 1:A:67:ILE:N     | 0.58     | 2.37        | 91     | 8     |
| 1:A:64:ILE:HG12  | 2:A:160:RCY:H1CB | 0.58     | 1.61        | 48     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:H1CB | 0.58     | 2.29        | 58     | 1     |
| 2:A:150:RCY:H1U  | 2:A:168:RCY:H1V  | 0.58     | 1.76        | 74     | 1     |
| 1:A:69:PRO:CG    | 2:A:168:RCY:O1G  | 0.58     | 2.51        | 78     | 1     |
| 1:A:65:THR:CB    | 2:A:160:RCY:H1YB | 0.58     | 2.26        | 100    | 1     |
| 2:A:138:RCY:H1MA | 2:A:150:RCY:C1L  | 0.58     | 2.22        | 1      | 1     |
| 2:A:150:RCY:C1W  | 2:A:160:RCY:C1Z  | 0.58     | 2.74        | 29     | 1     |
| 1:A:71:GLU:O     | 2:A:187:RCY:C1V  | 0.58     | 2.51        | 34     | 1     |
| 2:A:160:RCY:H1CA | 2:A:168:RCY:C1U  | 0.58     | 2.26        | 39     | 1     |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:C1V  | 0.58     | 2.28        | 64     | 1     |
| 1:A:71:GLU:OE2   | 2:A:168:RCY:H1S  | 0.58     | 1.98        | 70     | 1     |
| 1:A:62:THR:OG1   | 2:A:168:RCY:H1ZB | 0.58     | 1.99        | 72     | 1     |
| 1:A:72:ALA:C     | 2:A:173:RCY:C1S  | 0.58     | 2.49        | 76     | 1     |
| 2:A:138:RCY:H1YB | 2:A:150:RCY:O1H  | 0.58     | 1.99        | 80     | 1     |
| 2:A:176:RCY:C1M  | 2:A:187:RCY:N1V  | 0.58     | 2.52        | 87     | 1     |
| 1:A:71:GLU:OE1   | 2:A:173:RCY:H1U  | 0.58     | 1.99        | 94     | 1     |
| 1:A:73:CYS:O     | 1:A:75:HIS:N     | 0.57     | 2.37        | 15     | 15    |
| 2:A:110:RCY:C1X  | 2:A:121:RCY:H1YA | 0.57     | 2.23        | 5      | 1     |
| 1:A:69:PRO:CA    | 2:A:173:RCY:N1R  | 0.57     | 2.55        | 10     | 1     |
| 1:A:74:ASN:O     | 1:A:75:HIS:O     | 0.57     | 2.22        | 65     | 6     |
| 1:A:60:CYS:N     | 2:A:130:RCY:H1M  | 0.57     | 2.11        | 18     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:173:RCY:O1J  | 0.57     | 2.50        | 20     | 1     |
| 2:A:168:RCY:H1VB | 2:A:173:RCY:H1MA | 0.57     | 0.62        | 29     | 1     |
| 2:A:160:RCY:C1V  | 2:A:168:RCY:C1P  | 0.57     | 2.81        | 37     | 1     |
| 1:A:63:ASP:OD2   | 2:A:121:RCY:O1J  | 0.57     | 2.22        | 57     | 1     |
| 2:A:138:RCY:O1J  | 2:A:150:RCY:O1H  | 0.57     | 2.21        | 70     | 1     |
| 2:A:173:RCY:C1X  | 2:A:176:RCY:H1ZA | 0.57     | 2.29        | 77     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:138:RCY:C1V  | 2:A:176:RCY:H1U  | 0.57     | 2.26        | 82     | 1     |
| 1:A:73:CYS:SG    | 1:A:75:HIS:CE1   | 0.57     | 2.96        | 90     | 1     |
| 1:A:61:GLY:C     | 2:A:160:RCY:C1C  | 0.57     | 2.68        | 11     | 1     |
| 1:A:77:GLU:N     | 2:A:176:RCY:H1L  | 0.57     | 2.03        | 31     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:N1V  | 0.57     | 2.64        | 55     | 2     |
| 2:A:160:RCY:C1C  | 2:A:160:RCY:C1P  | 0.57     | 2.83        | 42     | 1     |
| 1:A:64:ILE:O     | 1:A:65:THR:HG22  | 0.57     | 1.98        | 44     | 2     |
| 2:A:138:RCY:H1S  | 2:A:187:RCY:H1Z  | 0.57     | 1.76        | 49     | 1     |
| 2:A:176:RCY:C1V  | 2:A:176:RCY:C1Q  | 0.57     | 2.82        | 59     | 3     |
| 2:A:138:RCY:H1MA | 2:A:150:RCY:O1H  | 0.57     | 1.98        | 60     | 1     |
| 1:A:74:ASN:OD1   | 2:A:176:RCY:O1G  | 0.57     | 2.20        | 78     | 1     |
| 1:A:69:PRO:HD2   | 2:A:150:RCY:C1V  | 0.57     | 2.29        | 85     | 1     |
| 1:A:70:TRP:HA    | 2:A:173:RCY:H1V  | 0.57     | 1.70        | 26     | 1     |
| 1:A:70:TRP:CG    | 2:A:168:RCY:C1V  | 0.57     | 2.88        | 28     | 1     |
| 1:A:70:TRP:C     | 2:A:168:RCY:H1LA | 0.57     | 1.81        | 29     | 1     |
| 1:A:71:GLU:HG2   | 2:A:176:RCY:H1CA | 0.57     | 1.75        | 45     | 2     |
| 1:A:64:ILE:HD12  | 1:A:64:ILE:O     | 0.57     | 1.98        | 52     | 1     |
| 2:A:138:RCY:H1M  | 2:A:160:RCY:C1C  | 0.57     | 2.28        | 69     | 1     |
| 1:A:62:THR:CB    | 2:A:168:RCY:H1ZB | 0.57     | 2.29        | 72     | 1     |
| 1:A:59:GLY:N     | 2:A:160:RCY:C1Q  | 0.57     | 2.67        | 85     | 1     |
| 1:A:65:THR:O     | 1:A:65:THR:HG22  | 0.57     | 1.98        | 86     | 1     |
| 2:A:168:RCY:H1CA | 2:A:187:RCY:C1Y  | 0.57     | 2.21        | 87     | 1     |
| 1:A:60:CYS:O     | 1:A:62:THR:N     | 0.57     | 2.37        | 94     | 5     |
| 1:A:61:GLY:C     | 2:A:160:RCY:H1CB | 0.57     | 2.20        | 11     | 1     |
| 1:A:77:GLU:HB2   | 2:A:173:RCY:O1G  | 0.57     | 1.99        | 32     | 2     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:O1H  | 0.57     | 1.99        | 30     | 1     |
| 1:A:70:TRP:CG    | 2:A:176:RCY:C1P  | 0.57     | 2.70        | 77     | 1     |
| 1:A:77:GLU:O     | 2:A:176:RCY:H1L  | 0.57     | 2.00        | 31     | 1     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:N1R  | 0.57     | 2.61        | 34     | 3     |
| 1:A:71:GLU:OE2   | 2:A:176:RCY:C1L  | 0.57     | 2.48        | 40     | 1     |
| 1:A:63:ASP:OD2   | 2:A:121:RCY:H1V  | 0.57     | 1.99        | 42     | 1     |
| 2:A:168:RCY:C1W  | 2:A:173:RCY:N1R  | 0.57     | 2.65        | 58     | 1     |
| 2:A:176:RCY:H1Z  | 2:A:187:RCY:C1S  | 0.57     | 2.29        | 58     | 1     |
| 1:A:66:VAL:CB    | 2:A:160:RCY:C1Q  | 0.57     | 2.66        | 68     | 1     |
| 2:A:160:RCY:H1Y  | 2:A:168:RCY:H1YA | 0.57     | 1.76        | 70     | 1     |
| 2:A:176:RCY:O1G  | 2:A:187:RCY:H1C  | 0.57     | 1.99        | 83     | 1     |
| 1:A:69:PRO:CB    | 2:A:150:RCY:C1Y  | 0.57     | 2.73        | 85     | 1     |
| 2:A:130:RCY:C1C  | 2:A:130:RCY:C1Q  | 0.57     | 2.68        | 85     | 1     |
| 1:A:78:LEU:HD11  | 2:A:176:RCY:H1MA | 0.57     | 1.73        | 91     | 1     |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:C1M  | 0.57     | 2.28        | 4      | 1     |
| 2:A:168:RCY:H1CA | 2:A:173:RCY:O1H  | 0.57     | 1.99        | 8      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:C1P  | 2:A:168:RCY:C1V  | 0.57     | 2.82        | 32     | 4     |
| 1:A:70:TRP:CE3   | 2:A:176:RCY:H1CA | 0.57     | 2.34        | 13     | 1     |
| 2:A:173:RCY:C1Q  | 2:A:173:RCY:C1C  | 0.57     | 2.82        | 95     | 4     |
| 2:A:138:RCY:C1X  | 2:A:150:RCY:O1J  | 0.57     | 2.45        | 36     | 2     |
| 1:A:60:CYS:CB    | 2:A:168:RCY:C1Z  | 0.57     | 2.77        | 52     | 1     |
| 1:A:68:CYS:CA    | 2:A:168:RCY:H1VB | 0.57     | 2.27        | 63     | 1     |
| 1:A:62:THR:CG2   | 2:A:168:RCY:H1ZB | 0.57     | 2.22        | 72     | 1     |
| 1:A:68:CYS:C     | 2:A:173:RCY:H1MA | 0.57     | 2.01        | 73     | 1     |
| 1:A:62:THR:CG2   | 2:A:160:RCY:C1L  | 0.57     | 2.82        | 82     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:176:RCY:H1V  | 0.57     | 2.29        | 84     | 1     |
| 1:A:68:CYS:SG    | 1:A:71:GLU:HB3   | 0.57     | 2.40        | 88     | 1     |
| 2:A:173:RCY:O1H  | 2:A:176:RCY:H1LA | 0.57     | 1.99        | 93     | 1     |
| 1:A:64:ILE:O     | 2:A:168:RCY:C1Q  | 0.57     | 2.53        | 6      | 1     |
| 2:A:130:RCY:H1C  | 2:A:160:RCY:C1U  | 0.57     | 2.14        | 7      | 1     |
| 2:A:168:RCY:C1V  | 2:A:168:RCY:C1P  | 0.57     | 2.83        | 92     | 6     |
| 2:A:150:RCY:C1P  | 2:A:150:RCY:C1C  | 0.57     | 2.82        | 91     | 5     |
| 1:A:69:PRO:CG    | 2:A:160:RCY:H1CA | 0.57     | 2.28        | 35     | 1     |
| 1:A:74:ASN:CA    | 2:A:173:RCY:C1C  | 0.57     | 2.77        | 35     | 1     |
| 2:A:160:RCY:C1P  | 2:A:160:RCY:H1CA | 0.57     | 2.30        | 57     | 3     |
| 1:A:69:PRO:HG3   | 2:A:173:RCY:N1R  | 0.57     | 2.13        | 42     | 1     |
| 2:A:150:RCY:H1VA | 2:A:187:RCY:H1ZA | 0.57     | 1.77        | 59     | 1     |
| 1:A:64:ILE:CD1   | 2:A:187:RCY:C1W  | 0.57     | 2.82        | 85     | 1     |
| 1:A:74:ASN:CG    | 2:A:168:RCY:H1Y  | 0.57     | 2.14        | 91     | 1     |
| 1:A:69:PRO:HD2   | 2:A:173:RCY:H1VB | 0.57     | 1.75        | 3      | 1     |
| 2:A:160:RCY:H1M  | 2:A:168:RCY:C1U  | 0.57     | 2.28        | 5      | 1     |
| 2:A:160:RCY:C1Y  | 2:A:173:RCY:C1C  | 0.57     | 2.58        | 11     | 1     |
| 2:A:168:RCY:C1V  | 2:A:168:RCY:C1Q  | 0.57     | 2.79        | 13     | 5     |
| 1:A:76:CYS:O     | 2:A:176:RCY:C1L  | 0.57     | 2.53        | 17     | 1     |
| 2:A:160:RCY:C1Q  | 2:A:160:RCY:H1VB | 0.57     | 2.17        | 18     | 1     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:N1V  | 0.57     | 2.68        | 36     | 1     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:H1U  | 0.57     | 1.76        | 60     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:187:RCY:H1YA | 0.57     | 2.24        | 72     | 1     |
| 1:A:73:CYS:N     | 2:A:173:RCY:C1P  | 0.57     | 2.64        | 82     | 1     |
| 1:A:69:PRO:HD2   | 2:A:150:RCY:H1YA | 0.57     | 0.68        | 85     | 1     |
| 1:A:65:THR:CG2   | 1:A:65:THR:O     | 0.57     | 2.53        | 90     | 2     |
| 1:A:70:TRP:HA    | 2:A:173:RCY:C1L  | 0.57     | 2.29        | 6      | 1     |
| 1:A:69:PRO:HA    | 2:A:173:RCY:H1LA | 0.57     | 1.76        | 10     | 1     |
| 1:A:63:ASP:OD2   | 2:A:160:RCY:H1CB | 0.57     | 1.97        | 15     | 1     |
| 1:A:64:ILE:O     | 1:A:64:ILE:HG23  | 0.57     | 1.98        | 27     | 1     |
| 2:A:173:RCY:H1ZA | 2:A:176:RCY:C1V  | 0.57     | 0.87        | 31     | 1     |
| 1:A:69:PRO:CG    | 2:A:160:RCY:C1C  | 0.57     | 2.82        | 35     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:N1R  | 0.57     | 2.65        | 38     | 2     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:H1YA | 0.57     | 2.16        | 48     | 2     |
| 2:A:160:RCY:H1Y  | 2:A:168:RCY:C1M  | 0.57     | 2.21        | 58     | 1     |
| 2:A:168:RCY:O1G  | 2:A:173:RCY:H1Y  | 0.57     | 1.95        | 62     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:H1MA | 0.57     | 2.28        | 63     | 1     |
| 2:A:138:RCY:H1Z  | 2:A:187:RCY:C1Z  | 0.57     | 2.26        | 77     | 1     |
| 1:A:74:ASN:OD1   | 2:A:168:RCY:H1YA | 0.57     | 1.94        | 91     | 1     |
| 1:A:78:LEU:HD23  | 2:A:187:RCY:C1X  | 0.57     | 2.01        | 91     | 1     |
| 2:A:138:RCY:H1CA | 2:A:187:RCY:H1YB | 0.57     | 1.70        | 99     | 1     |
| 1:A:62:THR:C     | 1:A:64:ILE:H     | 0.57     | 2.02        | 64     | 29    |
| 2:A:150:RCY:C1Z  | 2:A:176:RCY:N1R  | 0.57     | 2.67        | 3      | 1     |
| 2:A:176:RCY:O1J  | 2:A:187:RCY:C1Y  | 0.57     | 2.53        | 10     | 1     |
| 2:A:130:RCY:C1C  | 2:A:173:RCY:C1P  | 0.57     | 2.83        | 18     | 1     |
| 2:A:150:RCY:N1V  | 2:A:187:RCY:H1YA | 0.57     | 2.15        | 18     | 1     |
| 1:A:70:TRP:N     | 2:A:168:RCY:H1LA | 0.57     | 2.14        | 29     | 1     |
| 2:A:138:RCY:C1V  | 2:A:138:RCY:C1Q  | 0.57     | 2.79        | 51     | 4     |
| 1:A:61:GLY:N     | 2:A:160:RCY:O1H  | 0.57     | 2.38        | 46     | 1     |
| 2:A:168:RCY:H1L  | 2:A:176:RCY:C1C  | 0.57     | 2.29        | 49     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:150:RCY:H1S  | 0.57     | 2.29        | 60     | 1     |
| 2:A:138:RCY:C1X  | 2:A:150:RCY:C1Q  | 0.57     | 2.60        | 62     | 1     |
| 1:A:59:GLY:C     | 2:A:160:RCY:N1R  | 0.57     | 2.58        | 70     | 1     |
| 1:A:78:LEU:HD13  | 2:A:176:RCY:H1ZA | 0.57     | 1.72        | 91     | 1     |
| 2:A:130:RCY:H1VB | 2:A:173:RCY:C1L  | 0.56     | 2.28        | 5      | 1     |
| 2:A:160:RCY:N1V  | 2:A:168:RCY:H1L  | 0.56     | 2.15        | 15     | 1     |
| 1:A:73:CYS:HB3   | 2:A:176:RCY:N1R  | 0.56     | 2.13        | 20     | 1     |
| 1:A:70:TRP:C     | 1:A:70:TRP:CD1   | 0.56     | 2.75        | 95     | 4     |
| 2:A:160:RCY:C1P  | 2:A:160:RCY:C1C  | 0.56     | 2.80        | 29     | 5     |
| 1:A:62:THR:HB    | 2:A:138:RCY:H1ZB | 0.56     | 1.77        | 38     | 1     |
| 2:A:173:RCY:H1MA | 2:A:187:RCY:C1M  | 0.56     | 2.30        | 40     | 1     |
| 1:A:76:CYS:SG    | 2:A:160:RCY:C1W  | 0.56     | 2.85        | 73     | 1     |
| 1:A:66:VAL:CG1   | 2:A:121:RCY:H1VA | 0.56     | 2.15        | 83     | 2     |
| 1:A:64:ILE:HD12  | 2:A:187:RCY:C1W  | 0.56     | 2.30        | 85     | 1     |
| 1:A:71:GLU:CD    | 2:A:121:RCY:H1YB | 0.56     | 2.19        | 4      | 1     |
| 2:A:168:RCY:H1LA | 2:A:173:RCY:H1ZA | 0.56     | 1.77        | 10     | 2     |
| 1:A:62:THR:CB    | 2:A:173:RCY:H1VA | 0.56     | 2.19        | 18     | 1     |
| 1:A:74:ASN:O     | 1:A:75:HIS:ND1   | 0.56     | 2.38        | 28     | 4     |
| 2:A:168:RCY:H1L  | 2:A:176:RCY:C1V  | 0.56     | 2.30        | 49     | 1     |
| 1:A:74:ASN:N     | 2:A:173:RCY:C1S  | 0.56     | 2.68        | 50     | 1     |
| 1:A:63:ASP:O     | 1:A:64:ILE:CB    | 0.56     | 2.52        | 55     | 2     |
| 1:A:67:ILE:CD1   | 2:A:150:RCY:C1Y  | 0.56     | 2.83        | 63     | 1     |
| 2:A:173:RCY:H1YB | 2:A:187:RCY:N1V  | 0.56     | 2.15        | 64     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:H1C  | 0.56     | 0.65        | 69     | 1     |
| 1:A:69:PRO:HG3   | 2:A:176:RCY:H1YA | 0.56     | 1.48        | 72     | 1     |
| 1:A:70:TRP:CB    | 2:A:173:RCY:N1V  | 0.56     | 2.35        | 76     | 1     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:H1YB | 0.56     | 2.06        | 1      | 2     |
| 2:A:160:RCY:C1M  | 2:A:168:RCY:C1U  | 0.56     | 2.71        | 5      | 2     |
| 1:A:69:PRO:HG3   | 2:A:173:RCY:H1S  | 0.56     | 1.75        | 8      | 1     |
| 1:A:69:PRO:HG3   | 2:A:168:RCY:H1CA | 0.56     | 1.71        | 8      | 1     |
| 1:A:61:GLY:O     | 1:A:62:THR:O     | 0.56     | 2.23        | 13     | 2     |
| 1:A:69:PRO:HG2   | 2:A:173:RCY:H1V  | 0.56     | 1.77        | 10     | 1     |
| 2:A:138:RCY:H1C  | 2:A:150:RCY:N1V  | 0.56     | 2.14        | 10     | 1     |
| 2:A:160:RCY:H1V  | 2:A:168:RCY:N1V  | 0.56     | 2.15        | 14     | 1     |
| 2:A:138:RCY:H1VA | 2:A:173:RCY:N1V  | 0.56     | 2.14        | 15     | 1     |
| 2:A:176:RCY:H1MA | 2:A:187:RCY:C1L  | 0.56     | 2.25        | 26     | 1     |
| 1:A:67:ILE:CG2   | 2:A:150:RCY:H1VB | 0.56     | 2.29        | 31     | 1     |
| 1:A:70:TRP:CD1   | 2:A:176:RCY:H1L  | 0.56     | 2.35        | 32     | 1     |
| 2:A:168:RCY:C1W  | 2:A:173:RCY:C1P  | 0.56     | 2.72        | 37     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:121:RCY:C1M  | 0.56     | 2.88        | 41     | 1     |
| 1:A:69:PRO:HG3   | 2:A:173:RCY:C1P  | 0.56     | 2.30        | 42     | 1     |
| 1:A:75:HIS:CG    | 1:A:75:HIS:O     | 0.56     | 2.58        | 78     | 2     |
| 2:A:130:RCY:H1ZA | 2:A:160:RCY:C1C  | 0.56     | 2.31        | 69     | 1     |
| 1:A:59:GLY:N     | 2:A:138:RCY:C1S  | 0.56     | 2.68        | 73     | 1     |
| 1:A:67:ILE:CG2   | 2:A:173:RCY:H1ZA | 0.56     | 2.30        | 80     | 1     |
| 2:A:130:RCY:O1J  | 2:A:160:RCY:H1Z  | 0.56     | 2.00        | 81     | 1     |
| 1:A:70:TRP:CG    | 2:A:173:RCY:C1Z  | 0.56     | 2.85        | 94     | 1     |
| 2:A:168:RCY:C1V  | 2:A:176:RCY:C1Z  | 0.56     | 2.75        | 3      | 1     |
| 1:A:78:LEU:N     | 1:A:78:LEU:HD12  | 0.56     | 2.15        | 27     | 2     |
| 1:A:62:THR:O     | 1:A:65:THR:OG1   | 0.56     | 2.24        | 28     | 3     |
| 1:A:73:CYS:H     | 2:A:173:RCY:H1L  | 0.56     | 1.59        | 76     | 1     |
| 2:A:168:RCY:C1W  | 2:A:176:RCY:H1V  | 0.56     | 2.25        | 94     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:H1MA | 0.56     | 1.77        | 3      | 1     |
| 2:A:173:RCY:O1J  | 2:A:176:RCY:C1Q  | 0.56     | 2.53        | 62     | 2     |
| 2:A:138:RCY:C1L  | 2:A:150:RCY:C1M  | 0.56     | 2.53        | 23     | 1     |
| 1:A:76:CYS:HB2   | 2:A:173:RCY:C1Y  | 0.56     | 2.31        | 42     | 1     |
| 2:A:138:RCY:H1VB | 2:A:138:RCY:O1G  | 0.56     | 1.99        | 49     | 1     |
| 2:A:160:RCY:H1Y  | 2:A:168:RCY:C1V  | 0.56     | 2.24        | 70     | 1     |
| 1:A:70:TRP:H     | 2:A:173:RCY:H1M  | 0.56     | 1.59        | 4      | 1     |
| 1:A:67:ILE:O     | 2:A:168:RCY:H1V  | 0.56     | 2.01        | 5      | 1     |
| 2:A:138:RCY:C1C  | 2:A:173:RCY:H1ZB | 0.56     | 2.28        | 15     | 1     |
| 2:A:121:RCY:H1VA | 2:A:168:RCY:O1J  | 0.56     | 2.01        | 27     | 1     |
| 2:A:138:RCY:H1CB | 2:A:150:RCY:O1G  | 0.56     | 1.98        | 53     | 1     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:H1Z  | 0.56     | 2.30        | 72     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:150:RCY:H1YB | 2:A:160:RCY:H1Y  | 0.56     | 1.78        | 29     | 1     |
| 2:A:173:RCY:H1YB | 2:A:176:RCY:H1C  | 0.56     | 1.69        | 86     | 1     |
| 1:A:70:TRP:H     | 2:A:173:RCY:H1CA | 0.56     | 1.58        | 92     | 1     |
| 1:A:61:GLY:O     | 1:A:62:THR:C     | 0.56     | 2.44        | 36     | 15    |
| 2:A:173:RCY:C1P  | 2:A:176:RCY:C1X  | 0.56     | 2.68        | 11     | 1     |
| 1:A:73:CYS:O     | 1:A:73:CYS:SG    | 0.56     | 2.64        | 14     | 2     |
| 2:A:138:RCY:C1L  | 2:A:150:RCY:N1R  | 0.56     | 1.96        | 23     | 1     |
| 2:A:110:RCY:H1Z  | 2:A:121:RCY:C1X  | 0.56     | 2.31        | 33     | 1     |
| 1:A:65:THR:HB    | 2:A:160:RCY:H1L  | 0.56     | 1.76        | 35     | 1     |
| 1:A:64:ILE:CG2   | 1:A:67:ILE:O     | 0.56     | 2.53        | 93     | 3     |
| 1:A:71:GLU:HG3   | 2:A:173:RCY:C1Y  | 0.56     | 2.30        | 78     | 1     |
| 2:A:168:RCY:O1G  | 2:A:187:RCY:H1Z  | 0.56     | 2.00        | 84     | 1     |
| 2:A:150:RCY:H1C  | 2:A:168:RCY:N1V  | 0.56     | 2.16        | 19     | 1     |
| 1:A:69:PRO:CA    | 2:A:173:RCY:H1L  | 0.56     | 2.31        | 24     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:173:RCY:C1V  | 0.56     | 2.73        | 37     | 1     |
| 2:A:160:RCY:C1C  | 2:A:168:RCY:C1U  | 0.56     | 2.84        | 39     | 1     |
| 2:A:138:RCY:O1G  | 2:A:160:RCY:C1C  | 0.56     | 2.54        | 67     | 1     |
| 1:A:67:ILE:O     | 2:A:173:RCY:C1U  | 0.56     | 2.54        | 80     | 1     |
| 1:A:68:CYS:N     | 2:A:173:RCY:C1Y  | 0.56     | 2.68        | 100    | 1     |
| 1:A:73:CYS:SG    | 1:A:73:CYS:O     | 0.56     | 2.64        | 90     | 2     |
| 2:A:168:RCY:H1L  | 2:A:168:RCY:H1V  | 0.56     | 1.73        | 7      | 1     |
| 1:A:60:CYS:CB    | 2:A:130:RCY:C1V  | 0.56     | 2.83        | 8      | 1     |
| 2:A:160:RCY:H1YA | 2:A:168:RCY:H1VA | 0.56     | 1.78        | 8      | 1     |
| 2:A:150:RCY:H1U  | 2:A:187:RCY:H1L  | 0.56     | 1.77        | 27     | 1     |
| 1:A:70:TRP:HB3   | 2:A:168:RCY:H1L  | 0.56     | 1.63        | 46     | 1     |
| 2:A:150:RCY:H1L  | 2:A:160:RCY:C1M  | 0.56     | 2.27        | 85     | 1     |
| 2:A:138:RCY:O1J  | 2:A:150:RCY:O1G  | 0.56     | 2.21        | 88     | 1     |
| 1:A:62:THR:HG21  | 2:A:130:RCY:H1YB | 0.55     | 1.78        | 9      | 1     |
| 1:A:69:PRO:CG    | 2:A:187:RCY:C1V  | 0.55     | 2.83        | 14     | 2     |
| 2:A:138:RCY:H1C  | 2:A:187:RCY:H1YA | 0.55     | 1.74        | 44     | 1     |
| 1:A:75:HIS:C     | 2:A:176:RCY:H1ZB | 0.55     | 2.07        | 51     | 1     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:H1C  | 0.55     | 2.31        | 55     | 2     |
| 2:A:130:RCY:C1Y  | 2:A:160:RCY:C1Y  | 0.55     | 2.81        | 67     | 2     |
| 1:A:67:ILE:CA    | 2:A:173:RCY:H1M  | 0.55     | 2.31        | 80     | 1     |
| 2:A:173:RCY:C1C  | 2:A:176:RCY:H1ZA | 0.55     | 2.30        | 84     | 1     |
| 1:A:76:CYS:O     | 1:A:76:CYS:SG    | 0.55     | 2.63        | 48     | 2     |
| 1:A:64:ILE:C     | 1:A:66:VAL:H     | 0.55     | 2.04        | 55     | 5     |
| 2:A:110:RCY:C1V  | 2:A:110:RCY:C1Q  | 0.55     | 2.80        | 91     | 4     |
| 2:A:173:RCY:H1ZA | 2:A:176:RCY:C1C  | 0.55     | 2.31        | 31     | 1     |
| 1:A:75:HIS:O     | 2:A:187:RCY:O1G  | 0.55     | 2.23        | 34     | 1     |
| 2:A:138:RCY:O1J  | 2:A:150:RCY:N1V  | 0.55     | 2.10        | 43     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:150:RCY:H1Y  | 2:A:187:RCY:C1M  | 0.55     | 2.13        | 59     | 1     |
| 1:A:66:VAL:CB    | 2:A:160:RCY:N1V  | 0.55     | 2.68        | 68     | 1     |
| 1:A:68:CYS:C     | 2:A:173:RCY:H1M  | 0.55     | 2.17        | 73     | 1     |
| 1:A:67:ILE:O     | 2:A:173:RCY:C1X  | 0.55     | 2.53        | 80     | 1     |
| 1:A:75:HIS:HB3   | 2:A:176:RCY:C1C  | 0.55     | 2.31        | 84     | 1     |
| 1:A:78:LEU:HD12  | 1:A:78:LEU:N     | 0.55     | 2.17        | 35     | 8     |
| 1:A:78:LEU:HD22  | 1:A:78:LEU:N     | 0.55     | 2.15        | 3      | 1     |
| 1:A:70:TRP:O     | 2:A:168:RCY:H1CA | 0.55     | 2.01        | 29     | 1     |
| 2:A:187:RCY:C1V  | 2:A:187:RCY:O1H  | 0.55     | 2.55        | 29     | 2     |
| 2:A:176:RCY:C1P  | 2:A:187:RCY:O1H  | 0.55     | 2.55        | 38     | 1     |
| 2:A:138:RCY:O1H  | 2:A:160:RCY:O1G  | 0.55     | 2.21        | 69     | 1     |
| 1:A:63:ASP:CA    | 2:A:150:RCY:C1Z  | 0.55     | 2.84        | 80     | 1     |
| 1:A:71:GLU:CD    | 2:A:176:RCY:H1V  | 0.55     | 2.20        | 92     | 1     |
| 2:A:160:RCY:H1ZA | 2:A:173:RCY:C1Y  | 0.55     | 2.32        | 99     | 1     |
| 2:A:138:RCY:H1ZA | 2:A:150:RCY:H1LA | 0.55     | 0.66        | 1      | 1     |
| 1:A:78:LEU:N     | 1:A:78:LEU:CD2   | 0.55     | 2.69        | 3      | 5     |
| 1:A:66:VAL:O     | 2:A:121:RCY:H1YA | 0.55     | 2.02        | 4      | 1     |
| 2:A:168:RCY:N1V  | 2:A:176:RCY:H1U  | 0.55     | 2.11        | 16     | 1     |
| 2:A:160:RCY:C1Q  | 2:A:160:RCY:C1V  | 0.55     | 2.85        | 62     | 3     |
| 2:A:150:RCY:C1P  | 2:A:187:RCY:C1C  | 0.55     | 2.84        | 18     | 1     |
| 2:A:150:RCY:N1R  | 2:A:187:RCY:C1V  | 0.55     | 2.57        | 18     | 1     |
| 2:A:168:RCY:H1V  | 2:A:173:RCY:C1M  | 0.55     | 2.22        | 29     | 1     |
| 2:A:138:RCY:H1S  | 2:A:150:RCY:H1U  | 0.55     | 1.78        | 67     | 1     |
| 1:A:69:PRO:HB2   | 2:A:187:RCY:H1C  | 0.55     | 1.76        | 73     | 1     |
| 2:A:150:RCY:H1Y  | 2:A:187:RCY:C1X  | 0.55     | 2.32        | 78     | 1     |
| 1:A:60:CYS:HB3   | 2:A:130:RCY:O1G  | 0.55     | 2.00        | 8      | 1     |
| 1:A:70:TRP:N     | 1:A:70:TRP:CD1   | 0.55     | 2.74        | 8      | 2     |
| 2:A:121:RCY:C1V  | 2:A:121:RCY:C1P  | 0.55     | 2.81        | 82     | 6     |
| 2:A:160:RCY:H1Z  | 2:A:187:RCY:C1Z  | 0.55     | 2.20        | 21     | 1     |
| 1:A:69:PRO:CB    | 2:A:168:RCY:C1Y  | 0.55     | 2.58        | 66     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:138:RCY:C1V  | 0.55     | 2.59        | 69     | 1     |
| 2:A:130:RCY:C1C  | 2:A:130:RCY:O1G  | 0.55     | 2.53        | 80     | 1     |
| 2:A:130:RCY:H1Y  | 2:A:160:RCY:H1VA | 0.55     | 1.77        | 81     | 1     |
| 1:A:65:THR:C     | 1:A:67:ILE:H     | 0.55     | 2.05        | 45     | 17    |
| 2:A:176:RCY:H1C  | 2:A:187:RCY:H1VA | 0.55     | 1.78        | 8      | 1     |
| 1:A:63:ASP:OD1   | 2:A:160:RCY:H1CB | 0.55     | 2.02        | 15     | 2     |
| 1:A:73:CYS:SG    | 2:A:173:RCY:C1L  | 0.55     | 2.93        | 79     | 2     |
| 1:A:76:CYS:SG    | 2:A:121:RCY:C1Y  | 0.55     | 2.95        | 35     | 1     |
| 2:A:150:RCY:C1X  | 2:A:187:RCY:H1CA | 0.55     | 2.18        | 50     | 1     |
| 1:A:69:PRO:HD3   | 2:A:168:RCY:C1L  | 0.55     | 2.29        | 60     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:N1R  | 0.55     | 2.66        | 78     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:67:ILE:HG12  | 2:A:168:RCY:H1U  | 0.55     | 1.77        | 83     | 1     |
| 2:A:168:RCY:H1Z  | 2:A:176:RCY:H1V  | 0.55     | 1.78        | 84     | 1     |
| 2:A:168:RCY:H1U  | 2:A:176:RCY:H1ZA | 0.55     | 1.78        | 98     | 1     |
| 1:A:70:TRP:CG    | 1:A:70:TRP:O     | 0.55     | 2.59        | 7      | 2     |
| 1:A:60:CYS:HB2   | 2:A:130:RCY:C1V  | 0.55     | 2.32        | 8      | 1     |
| 2:A:138:RCY:H1VA | 2:A:187:RCY:C1W  | 0.55     | 2.31        | 11     | 1     |
| 2:A:168:RCY:C1Q  | 2:A:168:RCY:C1V  | 0.55     | 2.85        | 33     | 10    |
| 2:A:173:RCY:C1P  | 2:A:173:RCY:H1ZB | 0.55     | 2.32        | 14     | 4     |
| 1:A:70:TRP:O     | 2:A:168:RCY:H1YB | 0.55     | 2.01        | 37     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:H1YA | 0.55     | 2.31        | 42     | 1     |
| 1:A:73:CYS:CA    | 2:A:176:RCY:H1MA | 0.55     | 2.31        | 58     | 1     |
| 1:A:69:PRO:HG2   | 2:A:176:RCY:O1G  | 0.55     | 2.01        | 64     | 1     |
| 2:A:138:RCY:C1L  | 2:A:138:RCY:H1VB | 0.55     | 2.31        | 74     | 1     |
| 1:A:65:THR:CA    | 2:A:168:RCY:H1LA | 0.55     | 2.28        | 82     | 2     |
| 1:A:64:ILE:HG22  | 2:A:168:RCY:H1MA | 0.55     | 1.76        | 95     | 1     |
| 1:A:64:ILE:HD12  | 2:A:168:RCY:C1P  | 0.55     | 1.78        | 12     | 1     |
| 1:A:60:CYS:O     | 2:A:138:RCY:H1Z  | 0.55     | 2.01        | 62     | 1     |
| 2:A:150:RCY:C1V  | 2:A:187:RCY:H1MA | 0.55     | 2.31        | 64     | 1     |
| 1:A:74:ASN:OD1   | 1:A:75:HIS:ND1   | 0.55     | 2.40        | 76     | 1     |
| 1:A:71:GLU:OE2   | 2:A:168:RCY:O1G  | 0.55     | 2.25        | 93     | 1     |
| 2:A:138:RCY:H1V  | 2:A:187:RCY:C1P  | 0.55     | 2.31        | 21     | 1     |
| 2:A:121:RCY:N1R  | 2:A:121:RCY:C1M  | 0.55     | 2.65        | 25     | 1     |
| 1:A:67:ILE:CA    | 2:A:168:RCY:H1S  | 0.55     | 2.30        | 58     | 3     |
| 1:A:67:ILE:CG2   | 2:A:130:RCY:H1YB | 0.55     | 2.32        | 30     | 1     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:N1V  | 0.55     | 2.16        | 36     | 1     |
| 1:A:62:THR:O     | 1:A:68:CYS:SG    | 0.55     | 2.64        | 43     | 2     |
| 2:A:160:RCY:N1R  | 2:A:168:RCY:C1C  | 0.55     | 2.50        | 49     | 2     |
| 1:A:77:GLU:HA    | 2:A:176:RCY:H1LA | 0.55     | 1.77        | 45     | 1     |
| 2:A:138:RCY:C1S  | 2:A:138:RCY:C1X  | 0.55     | 2.61        | 50     | 1     |
| 2:A:173:RCY:C1V  | 2:A:187:RCY:C1Y  | 0.55     | 2.85        | 53     | 1     |
| 2:A:138:RCY:H1CA | 2:A:150:RCY:C1C  | 0.55     | 2.08        | 66     | 1     |
| 2:A:138:RCY:H1YB | 2:A:187:RCY:C1W  | 0.55     | 2.32        | 89     | 1     |
| 1:A:71:GLU:HG2   | 2:A:150:RCY:H1YA | 0.55     | 1.79        | 96     | 1     |
| 1:A:71:GLU:CA    | 1:A:74:ASN:HD21  | 0.55     | 2.15        | 3      | 1     |
| 1:A:69:PRO:CA    | 2:A:187:RCY:C1C  | 0.55     | 2.81        | 7      | 1     |
| 1:A:69:PRO:CB    | 2:A:168:RCY:H1YB | 0.55     | 2.31        | 22     | 1     |
| 1:A:73:CYS:HB2   | 2:A:168:RCY:H1CA | 0.55     | 1.78        | 22     | 1     |
| 1:A:67:ILE:C     | 2:A:150:RCY:H1YA | 0.55     | 2.21        | 31     | 1     |
| 1:A:71:GLU:CD    | 1:A:71:GLU:O     | 0.55     | 2.45        | 88     | 2     |
| 1:A:72:ALA:C     | 1:A:74:ASN:H     | 0.55     | 2.05        | 63     | 8     |
| 2:A:150:RCY:C1Y  | 2:A:160:RCY:C1V  | 0.55     | 2.78        | 42     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:160:RCY:C1U  | 2:A:168:RCY:H1VB | 0.55     | 2.16        | 48     | 1     |
| 2:A:160:RCY:H1VB | 2:A:168:RCY:H1CB | 0.55     | 1.79        | 49     | 1     |
| 1:A:65:THR:O     | 2:A:110:RCY:H1YA | 0.55     | 2.01        | 63     | 1     |
| 1:A:71:GLU:OE1   | 2:A:168:RCY:C1Q  | 0.55     | 2.55        | 74     | 1     |
| 2:A:160:RCY:C1V  | 2:A:160:RCY:C1P  | 0.54     | 2.85        | 46     | 7     |
| 2:A:176:RCY:H1VA | 2:A:187:RCY:O1J  | 0.54     | 1.98        | 8      | 1     |
| 2:A:176:RCY:C1Q  | 2:A:176:RCY:C1V  | 0.54     | 2.83        | 69     | 3     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:H1M  | 0.54     | 2.21        | 26     | 1     |
| 1:A:70:TRP:O     | 1:A:75:HIS:CD2   | 0.54     | 2.60        | 57     | 1     |
| 2:A:168:RCY:O1H  | 2:A:176:RCY:H1YB | 0.54     | 1.97        | 59     | 1     |
| 2:A:168:RCY:H1ZA | 2:A:187:RCY:O1G  | 0.54     | 2.01        | 77     | 1     |
| 1:A:66:VAL:CG1   | 2:A:121:RCY:H1M  | 0.54     | 2.32        | 83     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:176:RCY:H1YB | 0.54     | 2.32        | 83     | 1     |
| 1:A:61:GLY:C     | 1:A:62:THR:HG23  | 0.54     | 2.22        | 12     | 3     |
| 2:A:121:RCY:C1V  | 2:A:121:RCY:C1Q  | 0.54     | 2.85        | 26     | 3     |
| 1:A:67:ILE:O     | 2:A:150:RCY:C1Y  | 0.54     | 2.52        | 31     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:173:RCY:H1VA | 0.54     | 0.93        | 45     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:H1YA | 0.54     | 2.32        | 55     | 1     |
| 1:A:67:ILE:O     | 2:A:168:RCY:H1L  | 0.54     | 1.99        | 75     | 1     |
| 2:A:187:RCY:H1ZB | 2:A:187:RCY:O1G  | 0.54     | 2.02        | 76     | 1     |
| 1:A:68:CYS:SG    | 2:A:176:RCY:C1M  | 0.54     | 2.89        | 77     | 1     |
| 1:A:64:ILE:HG22  | 2:A:168:RCY:H1Z  | 0.54     | 1.71        | 83     | 1     |
| 1:A:71:GLU:H     | 2:A:168:RCY:H1S  | 0.54     | 1.61        | 83     | 1     |
| 2:A:173:RCY:H1YB | 2:A:187:RCY:H1ZB | 0.54     | 0.62        | 92     | 1     |
| 2:A:138:RCY:N1R  | 2:A:150:RCY:C1V  | 0.54     | 2.54        | 19     | 1     |
| 2:A:160:RCY:C1V  | 2:A:168:RCY:N1R  | 0.54     | 2.70        | 37     | 2     |
| 1:A:69:PRO:HG2   | 2:A:160:RCY:H1YB | 0.54     | 1.79        | 73     | 1     |
| 2:A:168:RCY:H1YB | 2:A:187:RCY:C1V  | 0.54     | 2.28        | 82     | 2     |
| 1:A:59:GLY:N     | 2:A:160:RCY:O1H  | 0.54     | 2.40        | 91     | 1     |
| 1:A:72:ALA:O     | 1:A:74:ASN:ND2   | 0.54     | 2.41        | 8      | 3     |
| 2:A:160:RCY:H1YA | 2:A:168:RCY:C1V  | 0.54     | 2.32        | 8      | 1     |
| 2:A:187:RCY:C1P  | 2:A:187:RCY:C1C  | 0.54     | 2.85        | 63     | 5     |
| 2:A:173:RCY:C1V  | 2:A:173:RCY:C1P  | 0.54     | 2.81        | 46     | 5     |
| 2:A:110:RCY:H1CA | 2:A:110:RCY:O1G  | 0.54     | 2.02        | 61     | 1     |
| 1:A:69:PRO:CA    | 2:A:173:RCY:C1Y  | 0.54     | 2.72        | 72     | 1     |
| 1:A:68:CYS:HA    | 2:A:173:RCY:H1VB | 0.54     | 1.78        | 80     | 1     |
| 1:A:70:TRP:HE1   | 2:A:173:RCY:H1L  | 0.54     | 1.61        | 93     | 1     |
| 1:A:62:THR:HA    | 2:A:130:RCY:H1YB | 0.54     | 1.80        | 98     | 1     |
| 1:A:64:ILE:HG21  | 2:A:160:RCY:H1ZA | 0.54     | 1.78        | 1      | 1     |
| 2:A:130:RCY:H1VB | 2:A:173:RCY:H1L  | 0.54     | 1.78        | 5      | 1     |
| 1:A:77:GLU:OE2   | 2:A:176:RCY:O1H  | 0.54     | 2.25        | 7      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:60:CYS:N     | 2:A:150:RCY:C1V  | 0.54     | 2.71        | 11     | 1     |
| 1:A:69:PRO:HG2   | 2:A:187:RCY:H1V  | 0.54     | 1.79        | 14     | 1     |
| 1:A:67:ILE:HG22  | 1:A:67:ILE:O     | 0.54     | 2.03        | 32     | 1     |
| 2:A:138:RCY:H1ZA | 2:A:187:RCY:H1YA | 0.54     | 0.65        | 32     | 2     |
| 2:A:130:RCY:O1J  | 2:A:176:RCY:C1C  | 0.54     | 2.55        | 41     | 1     |
| 1:A:71:GLU:CA    | 2:A:173:RCY:C1S  | 0.54     | 2.83        | 49     | 1     |
| 2:A:173:RCY:C1W  | 2:A:176:RCY:O1H  | 0.54     | 2.55        | 52     | 1     |
| 1:A:62:THR:CB    | 2:A:168:RCY:C1Z  | 0.54     | 2.85        | 72     | 1     |
| 1:A:78:LEU:O     | 1:A:78:LEU:HD13  | 0.54     | 2.03        | 73     | 2     |
| 1:A:70:TRP:CD1   | 2:A:176:RCY:C1V  | 0.54     | 2.55        | 77     | 1     |
| 2:A:176:RCY:H1CA | 2:A:187:RCY:C1P  | 0.54     | 2.33        | 86     | 1     |
| 2:A:173:RCY:H1M  | 2:A:176:RCY:C1M  | 0.54     | 1.94        | 89     | 1     |
| 1:A:71:GLU:CA    | 2:A:187:RCY:O1G  | 0.54     | 2.56        | 92     | 1     |
| 2:A:138:RCY:H1YB | 2:A:168:RCY:H1Y  | 0.54     | 1.79        | 7      | 1     |
| 2:A:160:RCY:H1ZB | 2:A:160:RCY:O1G  | 0.54     | 2.01        | 34     | 4     |
| 2:A:138:RCY:H1YA | 2:A:150:RCY:C1V  | 0.54     | 2.27        | 19     | 1     |
| 1:A:64:ILE:O     | 2:A:168:RCY:H1L  | 0.54     | 2.01        | 26     | 1     |
| 1:A:65:THR:CA    | 2:A:168:RCY:H1L  | 0.54     | 2.32        | 26     | 1     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:H1VB | 0.54     | 2.31        | 30     | 1     |
| 1:A:70:TRP:HE3   | 2:A:168:RCY:H1ZB | 0.54     | 1.60        | 41     | 1     |
| 2:A:121:RCY:H1M  | 2:A:160:RCY:H1ZA | 0.54     | 1.78        | 44     | 1     |
| 1:A:66:VAL:CA    | 2:A:168:RCY:C1C  | 0.54     | 2.86        | 58     | 1     |
| 1:A:73:CYS:O     | 1:A:75:HIS:ND1   | 0.54     | 2.41        | 65     | 3     |
| 2:A:110:RCY:C1Q  | 2:A:110:RCY:H1CA | 0.54     | 2.32        | 73     | 3     |
| 2:A:138:RCY:H1MA | 2:A:138:RCY:C1Q  | 0.54     | 2.32        | 79     | 1     |
| 2:A:138:RCY:O1J  | 2:A:187:RCY:H1Z  | 0.54     | 2.03        | 100    | 1     |
| 1:A:69:PRO:CG    | 2:A:168:RCY:H1L  | 0.54     | 2.28        | 7      | 1     |
| 1:A:77:GLU:OE2   | 2:A:176:RCY:H1VA | 0.54     | 1.79        | 7      | 1     |
| 2:A:160:RCY:C1P  | 2:A:160:RCY:H1VB | 0.54     | 2.32        | 9      | 5     |
| 1:A:69:PRO:C     | 1:A:71:GLU:H     | 0.54     | 2.06        | 53     | 19    |
| 1:A:78:LEU:C     | 1:A:78:LEU:CD2   | 0.54     | 2.76        | 12     | 3     |
| 1:A:75:HIS:CA    | 2:A:176:RCY:C1S  | 0.54     | 2.83        | 13     | 1     |
| 2:A:150:RCY:O1G  | 2:A:150:RCY:H1CB | 0.54     | 2.03        | 65     | 3     |
| 2:A:138:RCY:C1Z  | 2:A:176:RCY:H1LA | 0.54     | 2.30        | 22     | 1     |
| 1:A:71:GLU:CG    | 2:A:168:RCY:H1S  | 0.54     | 2.29        | 28     | 1     |
| 2:A:138:RCY:H1C  | 2:A:150:RCY:H1L  | 0.54     | 1.79        | 53     | 1     |
| 1:A:67:ILE:HG21  | 2:A:173:RCY:C1W  | 0.54     | 2.26        | 80     | 1     |
| 1:A:78:LEU:CD2   | 2:A:187:RCY:C1V  | 0.54     | 2.83        | 91     | 1     |
| 1:A:70:TRP:HZ3   | 2:A:168:RCY:H1ZA | 0.54     | 0.42        | 98     | 1     |
| 1:A:62:THR:OG1   | 2:A:168:RCY:C1S  | 0.54     | 2.56        | 23     | 1     |
| 2:A:130:RCY:C1V  | 2:A:130:RCY:O1G  | 0.54     | 2.55        | 50     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:73:CYS:O     | 1:A:74:ASN:O     | 0.54     | 2.25        | 34     | 5     |
| 1:A:74:ASN:O     | 2:A:187:RCY:C1M  | 0.54     | 2.54        | 34     | 1     |
| 1:A:69:PRO:HG2   | 2:A:173:RCY:H1YB | 0.54     | 1.77        | 35     | 1     |
| 2:A:173:RCY:C1M  | 2:A:176:RCY:C1L  | 0.54     | 2.86        | 38     | 1     |
| 1:A:71:GLU:CG    | 2:A:176:RCY:O1G  | 0.54     | 2.50        | 44     | 1     |
| 2:A:168:RCY:C1U  | 2:A:173:RCY:C1V  | 0.54     | 2.83        | 48     | 1     |
| 1:A:74:ASN:N     | 2:A:176:RCY:H1VA | 0.54     | 2.07        | 62     | 1     |
| 1:A:67:ILE:O     | 2:A:173:RCY:H1Y  | 0.54     | 1.97        | 63     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:C1V  | 0.54     | 2.10        | 64     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:187:RCY:O1J  | 0.54     | 2.02        | 68     | 1     |
| 2:A:173:RCY:H1U  | 2:A:187:RCY:H1LA | 0.54     | 1.80        | 100    | 1     |
| 1:A:71:GLU:O     | 1:A:73:CYS:N     | 0.54     | 2.41        | 19     | 10    |
| 2:A:168:RCY:N1V  | 2:A:176:RCY:O1G  | 0.54     | 2.40        | 20     | 1     |
| 2:A:176:RCY:H1CB | 2:A:187:RCY:H1YB | 0.54     | 0.75        | 26     | 1     |
| 2:A:173:RCY:H1VA | 2:A:187:RCY:C1C  | 0.54     | 2.01        | 55     | 1     |
| 1:A:66:VAL:O     | 2:A:173:RCY:C1C  | 0.54     | 2.56        | 71     | 1     |
| 2:A:150:RCY:H1C  | 2:A:187:RCY:H1Z  | 0.54     | 1.79        | 81     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:160:RCY:H1MA | 0.54     | 2.33        | 87     | 1     |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:C1X  | 0.54     | 2.85        | 4      | 1     |
| 2:A:150:RCY:C1Z  | 2:A:160:RCY:N1R  | 0.54     | 2.71        | 16     | 1     |
| 1:A:64:ILE:HG13  | 2:A:168:RCY:H1VB | 0.54     | 1.79        | 18     | 1     |
| 1:A:70:TRP:CD1   | 1:A:74:ASN:O     | 0.54     | 2.61        | 26     | 1     |
| 1:A:71:GLU:CG    | 2:A:168:RCY:O1H  | 0.54     | 2.55        | 37     | 2     |
| 1:A:71:GLU:O     | 1:A:75:HIS:CE1   | 0.54     | 2.61        | 57     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:168:RCY:C1Y  | 0.54     | 2.86        | 74     | 1     |
| 1:A:70:TRP:HD1   | 2:A:173:RCY:C1M  | 0.54     | 2.13        | 84     | 1     |
| 1:A:70:TRP:HB3   | 2:A:173:RCY:H1YB | 0.54     | 1.79        | 94     | 1     |
| 1:A:64:ILE:CB    | 2:A:168:RCY:O1H  | 0.54     | 2.37        | 95     | 1     |
| 2:A:160:RCY:N1R  | 2:A:168:RCY:H1MA | 0.54     | 2.17        | 96     | 1     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:H1YB | 0.54     | 2.33        | 97     | 1     |
| 2:A:173:RCY:O1G  | 2:A:173:RCY:C1Z  | 0.53     | 2.56        | 17     | 2     |
| 2:A:187:RCY:C1V  | 2:A:187:RCY:C1P  | 0.53     | 2.81        | 31     | 6     |
| 1:A:63:ASP:N     | 1:A:63:ASP:OD1   | 0.53     | 2.42        | 33     | 4     |
| 1:A:70:TRP:NE1   | 1:A:71:GLU:OE1   | 0.53     | 2.40        | 35     | 1     |
| 1:A:65:THR:CG2   | 2:A:160:RCY:C1Q  | 0.53     | 2.86        | 36     | 2     |
| 1:A:76:CYS:CB    | 2:A:173:RCY:C1Y  | 0.53     | 2.86        | 42     | 1     |
| 1:A:70:TRP:CE3   | 2:A:150:RCY:H1Y  | 0.53     | 2.21        | 47     | 1     |
| 1:A:75:HIS:H     | 2:A:176:RCY:H1MA | 0.53     | 1.63        | 67     | 1     |
| 2:A:173:RCY:C1V  | 2:A:187:RCY:C1W  | 0.53     | 2.84        | 67     | 1     |
| 1:A:75:HIS:NE2   | 1:A:78:LEU:O     | 0.53     | 2.41        | 84     | 1     |
| 1:A:62:THR:HG22  | 2:A:130:RCY:H1U  | 0.53     | 1.77        | 9      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:187:RCY:C1Q  | 2:A:187:RCY:C1V  | 0.53     | 2.86        | 51     | 2     |
| 2:A:138:RCY:C1W  | 2:A:173:RCY:H1ZA | 0.53     | 2.33        | 32     | 1     |
| 1:A:64:ILE:CG2   | 1:A:67:ILE:H     | 0.53     | 2.16        | 37     | 1     |
| 2:A:168:RCY:H1M  | 2:A:187:RCY:C1C  | 0.53     | 2.32        | 64     | 1     |
| 1:A:70:TRP:CE2   | 2:A:176:RCY:C1W  | 0.53     | 2.87        | 80     | 1     |
| 1:A:71:GLU:HA    | 2:A:173:RCY:H1L  | 0.53     | 1.80        | 88     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:173:RCY:C1Y  | 0.53     | 2.86        | 92     | 1     |
| 2:A:160:RCY:O1G  | 2:A:168:RCY:C1P  | 0.53     | 2.53        | 92     | 1     |
| 1:A:61:GLY:O     | 2:A:160:RCY:H1V  | 0.53     | 2.03        | 97     | 1     |
| 2:A:150:RCY:C1V  | 2:A:150:RCY:C1Q  | 0.53     | 2.83        | 46     | 4     |
| 1:A:67:ILE:O     | 2:A:168:RCY:O1H  | 0.53     | 2.27        | 87     | 2     |
| 2:A:138:RCY:H1VB | 2:A:150:RCY:H1CA | 0.53     | 1.58        | 10     | 1     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:H1MA | 0.53     | 2.23        | 69     | 2     |
| 1:A:67:ILE:C     | 2:A:168:RCY:H1LA | 0.53     | 1.93        | 30     | 1     |
| 2:A:130:RCY:H1ZA | 2:A:168:RCY:H1VA | 0.53     | 1.78        | 34     | 1     |
| 1:A:71:GLU:CD    | 2:A:168:RCY:O1G  | 0.53     | 2.47        | 51     | 3     |
| 2:A:176:RCY:O1H  | 2:A:187:RCY:C1X  | 0.53     | 2.56        | 42     | 1     |
| 2:A:168:RCY:C1V  | 2:A:173:RCY:H1U  | 0.53     | 2.28        | 45     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:168:RCY:O1G  | 0.53     | 2.51        | 48     | 1     |
| 1:A:63:ASP:C     | 1:A:64:ILE:HG22  | 0.53     | 2.22        | 55     | 3     |
| 1:A:74:ASN:HA    | 2:A:176:RCY:N1R  | 0.53     | 2.18        | 67     | 1     |
| 2:A:130:RCY:C1C  | 2:A:138:RCY:H1ZB | 0.53     | 2.28        | 67     | 1     |
| 2:A:138:RCY:H1VB | 2:A:150:RCY:C1X  | 0.53     | 2.32        | 67     | 1     |
| 1:A:62:THR:CB    | 2:A:168:RCY:O1G  | 0.53     | 2.56        | 72     | 1     |
| 1:A:62:THR:CG2   | 2:A:168:RCY:H1VA | 0.53     | 2.33        | 75     | 1     |
| 1:A:70:TRP:NE1   | 2:A:187:RCY:H1ZB | 0.53     | 2.19        | 76     | 1     |
| 1:A:64:ILE:CG2   | 2:A:168:RCY:H1MA | 0.53     | 2.28        | 95     | 1     |
| 1:A:78:LEU:C     | 1:A:78:LEU:HD13  | 0.53     | 2.23        | 76     | 4     |
| 1:A:62:THR:CG2   | 2:A:130:RCY:C1C  | 0.53     | 2.77        | 18     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:C1Q  | 0.53     | 2.64        | 75     | 1     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:C1M  | 0.53     | 2.32        | 97     | 1     |
| 1:A:77:GLU:H     | 1:A:77:GLU:CD    | 0.53     | 2.06        | 93     | 4     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:O1J  | 0.53     | 2.03        | 5      | 1     |
| 1:A:71:GLU:O     | 1:A:74:ASN:ND2   | 0.53     | 2.42        | 8      | 2     |
| 1:A:71:GLU:HA    | 2:A:173:RCY:C1C  | 0.53     | 2.34        | 19     | 1     |
| 2:A:138:RCY:H1CA | 2:A:160:RCY:H1YA | 0.53     | 1.81        | 26     | 1     |
| 1:A:74:ASN:ND2   | 2:A:173:RCY:C1P  | 0.53     | 2.68        | 27     | 1     |
| 2:A:150:RCY:C1V  | 2:A:150:RCY:C1P  | 0.53     | 2.86        | 30     | 5     |
| 2:A:168:RCY:H1ZA | 2:A:173:RCY:C1S  | 0.53     | 2.33        | 58     | 1     |
| 2:A:160:RCY:H1LA | 2:A:168:RCY:H1VB | 0.53     | 1.80        | 60     | 1     |
| 1:A:69:PRO:HG2   | 2:A:187:RCY:H1VA | 0.53     | 1.80        | 72     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:73:CYS:C     | 2:A:173:RCY:C1Q  | 0.53     | 2.77        | 82     | 1     |
| 1:A:68:CYS:SG    | 2:A:187:RCY:N1R  | 0.53     | 2.81        | 92     | 1     |
| 1:A:78:LEU:N     | 1:A:78:LEU:CD1   | 0.53     | 2.71        | 35     | 8     |
| 1:A:70:TRP:H     | 2:A:176:RCY:H1C  | 0.53     | 0.70        | 13     | 1     |
| 1:A:77:GLU:OE2   | 1:A:78:LEU:N     | 0.53     | 2.41        | 26     | 1     |
| 2:A:173:RCY:O1G  | 2:A:176:RCY:H1L  | 0.53     | 1.99        | 28     | 1     |
| 2:A:168:RCY:H1L  | 2:A:176:RCY:H1MA | 0.53     | 1.81        | 62     | 1     |
| 1:A:69:PRO:HG2   | 2:A:168:RCY:O1G  | 0.53     | 2.03        | 78     | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:C1X  | 0.53     | 2.55        | 78     | 1     |
| 1:A:64:ILE:HG23  | 2:A:168:RCY:C1S  | 0.53     | 2.33        | 79     | 1     |
| 2:A:150:RCY:C1M  | 2:A:168:RCY:O1H  | 0.53     | 2.57        | 85     | 1     |
| 1:A:71:GLU:HG3   | 2:A:173:RCY:H1CA | 0.53     | 1.81        | 89     | 1     |
| 2:A:173:RCY:C1U  | 2:A:176:RCY:H1LA | 0.53     | 2.34        | 91     | 1     |
| 2:A:138:RCY:C1S  | 2:A:150:RCY:H1VB | 0.53     | 2.33        | 98     | 1     |
| 2:A:176:RCY:C1Z  | 2:A:187:RCY:O1G  | 0.53     | 2.56        | 100    | 1     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:C1X  | 0.53     | 2.75        | 27     | 1     |
| 2:A:160:RCY:C1X  | 2:A:168:RCY:H1V  | 0.53     | 2.24        | 48     | 1     |
| 1:A:73:CYS:HA    | 2:A:176:RCY:H1MA | 0.53     | 1.80        | 58     | 2     |
| 2:A:173:RCY:H1S  | 2:A:176:RCY:C1P  | 0.53     | 2.34        | 59     | 1     |
| 2:A:130:RCY:C1M  | 2:A:130:RCY:C1U  | 0.53     | 2.86        | 79     | 1     |
| 2:A:138:RCY:O1G  | 2:A:176:RCY:O1J  | 0.53     | 2.26        | 88     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:187:RCY:C1P  | 0.53     | 0.96        | 92     | 1     |
| 1:A:60:CYS:HA    | 2:A:168:RCY:C1P  | 0.53     | 2.23        | 95     | 1     |
| 1:A:64:ILE:HD11  | 2:A:168:RCY:C1M  | 0.53     | 2.33        | 6      | 1     |
| 1:A:63:ASP:C     | 1:A:65:THR:N     | 0.53     | 2.62        | 35     | 8     |
| 1:A:64:ILE:C     | 1:A:64:ILE:CD1   | 0.53     | 2.76        | 17     | 1     |
| 1:A:74:ASN:OD1   | 1:A:75:HIS:N     | 0.53     | 2.42        | 91     | 9     |
| 1:A:70:TRP:HE1   | 1:A:76:CYS:N     | 0.53     | 2.02        | 26     | 1     |
| 1:A:60:CYS:O     | 1:A:61:GLY:C     | 0.53     | 2.46        | 94     | 4     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:H1L  | 0.53     | 2.34        | 53     | 1     |
| 1:A:63:ASP:OD2   | 2:A:121:RCY:H1Z  | 0.53     | 2.04        | 57     | 1     |
| 2:A:168:RCY:C1U  | 2:A:187:RCY:C1Y  | 0.53     | 2.75        | 87     | 1     |
| 1:A:78:LEU:CD1   | 2:A:176:RCY:C1M  | 0.53     | 2.65        | 91     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:173:RCY:C1X  | 0.53     | 2.73        | 91     | 1     |
| 1:A:64:ILE:HD12  | 2:A:168:RCY:H1ZA | 0.53     | 1.74        | 6      | 2     |
| 2:A:110:RCY:C1C  | 2:A:110:RCY:O1G  | 0.53     | 2.50        | 67     | 2     |
| 2:A:130:RCY:C1U  | 2:A:160:RCY:C1W  | 0.53     | 2.77        | 7      | 1     |
| 2:A:176:RCY:H1ZA | 2:A:187:RCY:H1VA | 0.53     | 1.70        | 10     | 1     |
| 1:A:63:ASP:C     | 1:A:65:THR:H     | 0.53     | 2.06        | 35     | 5     |
| 2:A:187:RCY:C1U  | 2:A:187:RCY:C1P  | 0.53     | 2.83        | 25     | 1     |
| 1:A:66:VAL:C     | 1:A:67:ILE:HD12  | 0.53     | 2.24        | 32     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:75:HIS:CE1   | 2:A:173:RCY:H1YB | 0.53     | 2.32        | 33     | 1     |
| 1:A:65:THR:HG21  | 2:A:160:RCY:C1Q  | 0.53     | 2.34        | 36     | 1     |
| 1:A:70:TRP:CD1   | 2:A:173:RCY:C1V  | 0.53     | 2.92        | 38     | 1     |
| 1:A:70:TRP:NE1   | 2:A:176:RCY:O1H  | 0.53     | 2.42        | 38     | 1     |
| 2:A:173:RCY:O1G  | 2:A:173:RCY:H1CA | 0.53     | 2.04        | 38     | 1     |
| 1:A:70:TRP:CB    | 2:A:187:RCY:C1Z  | 0.53     | 2.82        | 51     | 1     |
| 2:A:138:RCY:C1M  | 2:A:150:RCY:H1U  | 0.53     | 2.34        | 60     | 1     |
| 2:A:173:RCY:N1R  | 2:A:187:RCY:H1ZB | 0.53     | 2.19        | 75     | 1     |
| 2:A:176:RCY:N1V  | 2:A:187:RCY:O1G  | 0.53     | 2.39        | 86     | 1     |
| 2:A:150:RCY:O1G  | 2:A:187:RCY:N1V  | 0.53     | 2.42        | 98     | 1     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:H1U  | 0.53     | 1.72        | 38     | 1     |
| 1:A:71:GLU:O     | 2:A:176:RCY:C1P  | 0.53     | 2.57        | 40     | 1     |
| 1:A:73:CYS:CB    | 2:A:176:RCY:H1MA | 0.53     | 2.34        | 58     | 1     |
| 1:A:64:ILE:HG12  | 1:A:68:CYS:HB3   | 0.53     | 1.81        | 76     | 1     |
| 2:A:160:RCY:C1Q  | 2:A:160:RCY:C1C  | 0.53     | 2.82        | 84     | 1     |
| 2:A:138:RCY:C1V  | 2:A:150:RCY:H1ZB | 0.53     | 2.03        | 87     | 1     |
| 1:A:70:TRP:O     | 2:A:173:RCY:H1ZB | 0.53     | 2.04        | 94     | 1     |
| 2:A:176:RCY:H1U  | 2:A:187:RCY:O1G  | 0.53     | 2.03        | 97     | 1     |
| 2:A:168:RCY:C1M  | 2:A:187:RCY:C1L  | 0.53     | 2.86        | 100    | 1     |
| 1:A:70:TRP:CB    | 2:A:173:RCY:N1R  | 0.52     | 2.65        | 6      | 1     |
| 1:A:68:CYS:HA    | 2:A:173:RCY:H1U  | 0.52     | 1.80        | 10     | 1     |
| 2:A:176:RCY:O1J  | 2:A:187:RCY:N1R  | 0.52     | 2.34        | 29     | 1     |
| 1:A:71:GLU:OE2   | 2:A:168:RCY:C1C  | 0.52     | 2.56        | 32     | 2     |
| 2:A:176:RCY:H1V  | 2:A:187:RCY:C1C  | 0.52     | 2.33        | 33     | 1     |
| 2:A:173:RCY:H1U  | 2:A:187:RCY:C1L  | 0.52     | 2.33        | 56     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:H1LA | 0.52     | 2.30        | 58     | 1     |
| 2:A:168:RCY:H1VB | 2:A:176:RCY:N1V  | 0.52     | 2.18        | 59     | 1     |
| 2:A:130:RCY:C1W  | 2:A:160:RCY:H1Y  | 0.52     | 2.34        | 67     | 1     |
| 1:A:67:ILE:CD1   | 2:A:130:RCY:H1Y  | 0.52     | 2.33        | 78     | 1     |
| 1:A:71:GLU:C     | 2:A:173:RCY:N1R  | 0.52     | 2.63        | 94     | 1     |
| 2:A:173:RCY:H1Z  | 2:A:176:RCY:H1MA | 0.52     | 1.80        | 94     | 1     |
| 1:A:71:GLU:OE1   | 2:A:110:RCY:C1U  | 0.52     | 2.57        | 5      | 1     |
| 2:A:160:RCY:C1P  | 2:A:160:RCY:H1ZB | 0.52     | 2.35        | 8      | 2     |
| 2:A:173:RCY:H1ZA | 2:A:176:RCY:H1L  | 0.52     | 1.76        | 20     | 1     |
| 2:A:173:RCY:C1W  | 2:A:187:RCY:H1L  | 0.52     | 2.35        | 45     | 1     |
| 1:A:67:ILE:HG13  | 2:A:176:RCY:H1CB | 0.52     | 1.72        | 53     | 1     |
| 1:A:66:VAL:CA    | 2:A:160:RCY:N1V  | 0.52     | 2.69        | 68     | 1     |
| 2:A:168:RCY:H1CA | 2:A:187:RCY:O1G  | 0.52     | 2.04        | 70     | 1     |
| 2:A:138:RCY:H1Z  | 2:A:187:RCY:H1Z  | 0.52     | 1.71        | 77     | 1     |
| 1:A:69:PRO:CG    | 2:A:168:RCY:C1P  | 0.52     | 2.86        | 78     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:H1CB | 0.52     | 2.33        | 1      | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:176:RCY:C1V  | 2:A:176:RCY:C1P  | 0.52     | 2.81        | 9      | 6     |
| 2:A:168:RCY:H1M  | 2:A:176:RCY:C1Z  | 0.52     | 2.34        | 23     | 1     |
| 1:A:77:GLU:N     | 1:A:77:GLU:OE1   | 0.52     | 2.42        | 50     | 2     |
| 1:A:64:ILE:CG2   | 2:A:168:RCY:O1H  | 0.52     | 2.58        | 54     | 2     |
| 1:A:63:ASP:CG    | 2:A:160:RCY:H1VB | 0.52     | 2.24        | 63     | 1     |
| 1:A:75:HIS:CE1   | 2:A:168:RCY:C1Z  | 0.52     | 2.91        | 73     | 1     |
| 2:A:130:RCY:C1P  | 2:A:130:RCY:C1C  | 0.52     | 2.86        | 84     | 2     |
| 1:A:67:ILE:CG2   | 2:A:168:RCY:C1U  | 0.52     | 2.75        | 83     | 1     |
| 1:A:66:VAL:O     | 2:A:150:RCY:H1CB | 0.52     | 2.02        | 96     | 1     |
| 1:A:65:THR:CB    | 2:A:160:RCY:C1Y  | 0.52     | 2.87        | 100    | 1     |
| 1:A:71:GLU:CG    | 2:A:121:RCY:C1Y  | 0.52     | 2.84        | 4      | 1     |
| 1:A:61:GLY:O     | 1:A:62:THR:OG1   | 0.52     | 2.26        | 47     | 10    |
| 1:A:74:ASN:O     | 2:A:173:RCY:C1C  | 0.52     | 2.57        | 13     | 1     |
| 2:A:160:RCY:C1X  | 2:A:168:RCY:O1G  | 0.52     | 2.57        | 19     | 1     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:H1VA | 0.52     | 2.29        | 45     | 2     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:C1C  | 0.52     | 2.70        | 27     | 1     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:C1U  | 0.52     | 2.81        | 29     | 1     |
| 1:A:64:ILE:HD12  | 2:A:160:RCY:H1C  | 0.52     | 1.79        | 39     | 1     |
| 2:A:176:RCY:H1YB | 2:A:187:RCY:C1Z  | 0.52     | 2.34        | 47     | 1     |
| 2:A:168:RCY:H1MA | 2:A:173:RCY:H1YA | 0.52     | 1.81        | 49     | 1     |
| 1:A:72:ALA:O     | 2:A:187:RCY:H1YB | 0.52     | 2.04        | 56     | 1     |
| 2:A:138:RCY:C1Q  | 2:A:138:RCY:C1C  | 0.52     | 2.88        | 70     | 2     |
| 1:A:78:LEU:O     | 1:A:78:LEU:HD12  | 0.52     | 2.04        | 74     | 1     |
| 2:A:176:RCY:H1YB | 2:A:187:RCY:O1H  | 0.52     | 2.04        | 76     | 1     |
| 2:A:150:RCY:C1M  | 2:A:187:RCY:C1Y  | 0.52     | 2.84        | 88     | 1     |
| 2:A:168:RCY:O1H  | 2:A:173:RCY:C1V  | 0.52     | 2.58        | 3      | 1     |
| 2:A:150:RCY:O1J  | 2:A:160:RCY:C1V  | 0.52     | 2.58        | 6      | 1     |
| 1:A:63:ASP:O     | 1:A:64:ILE:C     | 0.52     | 2.48        | 23     | 7     |
| 1:A:71:GLU:CD    | 2:A:173:RCY:C1P  | 0.52     | 2.78        | 17     | 1     |
| 1:A:77:GLU:CD    | 1:A:77:GLU:H     | 0.52     | 2.07        | 20     | 2     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:C1C  | 0.52     | 2.87        | 20     | 1     |
| 1:A:67:ILE:CA    | 2:A:168:RCY:H1L  | 0.52     | 2.34        | 21     | 1     |
| 2:A:160:RCY:H1ZB | 2:A:168:RCY:H1M  | 0.52     | 1.70        | 52     | 1     |
| 2:A:150:RCY:H1VA | 2:A:176:RCY:H1YA | 0.52     | 1.81        | 57     | 1     |
| 1:A:63:ASP:HA    | 2:A:168:RCY:C1L  | 0.52     | 2.32        | 59     | 1     |
| 2:A:138:RCY:C1V  | 2:A:173:RCY:H1YB | 0.52     | 2.34        | 66     | 1     |
| 1:A:63:ASP:HB2   | 2:A:150:RCY:C1Z  | 0.52     | 2.32        | 80     | 1     |
| 1:A:69:PRO:HG2   | 2:A:150:RCY:O1J  | 0.52     | 2.04        | 85     | 1     |
| 2:A:150:RCY:H1Z  | 2:A:160:RCY:O1G  | 0.52     | 2.05        | 6      | 1     |
| 2:A:168:RCY:C1V  | 2:A:176:RCY:H1CA | 0.52     | 2.34        | 85     | 2     |
| 2:A:138:RCY:H1VA | 2:A:150:RCY:C1Z  | 0.52     | 2.35        | 26     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:61:GLY:N     | 1:A:65:THR:OG1   | 0.52     | 2.43        | 36     | 1     |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:H1MA | 0.52     | 1.81        | 57     | 1     |
| 1:A:67:ILE:HA    | 2:A:168:RCY:N1R  | 0.52     | 2.20        | 58     | 1     |
| 2:A:130:RCY:C1W  | 2:A:160:RCY:C1Y  | 0.52     | 2.88        | 67     | 1     |
| 2:A:130:RCY:C1M  | 2:A:130:RCY:H1CA | 0.52     | 2.26        | 79     | 1     |
| 1:A:70:TRP:CD1   | 2:A:173:RCY:C1W  | 0.52     | 2.92        | 84     | 1     |
| 1:A:78:LEU:HD21  | 2:A:187:RCY:N1V  | 0.52     | 2.05        | 91     | 1     |
| 1:A:61:GLY:C     | 1:A:63:ASP:H     | 0.52     | 2.08        | 6      | 11    |
| 1:A:62:THR:CG2   | 2:A:168:RCY:O1J  | 0.52     | 2.56        | 7      | 1     |
| 1:A:74:ASN:N     | 1:A:74:ASN:ND2   | 0.52     | 2.56        | 11     | 1     |
| 1:A:68:CYS:SG    | 2:A:176:RCY:H1YB | 0.52     | 2.43        | 18     | 1     |
| 2:A:173:RCY:O1G  | 2:A:176:RCY:H1V  | 0.52     | 1.99        | 19     | 1     |
| 1:A:74:ASN:C     | 1:A:76:CYS:N     | 0.52     | 2.63        | 78     | 5     |
| 1:A:77:GLU:N     | 1:A:77:GLU:CD    | 0.52     | 2.63        | 26     | 2     |
| 1:A:69:PRO:CD    | 2:A:173:RCY:H1Z  | 0.52     | 2.30        | 31     | 1     |
| 1:A:61:GLY:O     | 1:A:64:ILE:N     | 0.52     | 2.40        | 94     | 4     |
| 1:A:74:ASN:N     | 1:A:74:ASN:OD1   | 0.52     | 2.43        | 50     | 2     |
| 2:A:173:RCY:H1ZB | 2:A:187:RCY:H1YB | 0.52     | 1.80        | 72     | 1     |
| 2:A:138:RCY:C1L  | 2:A:138:RCY:H1V  | 0.52     | 2.33        | 74     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:176:RCY:H1YB | 0.52     | 0.52        | 81     | 1     |
| 1:A:65:THR:HG23  | 1:A:66:VAL:N     | 0.52     | 2.20        | 85     | 1     |
| 1:A:64:ILE:HD12  | 1:A:68:CYS:HB3   | 0.52     | 1.81        | 86     | 1     |
| 2:A:176:RCY:H1ZB | 2:A:187:RCY:O1G  | 0.52     | 2.05        | 86     | 1     |
| 1:A:64:ILE:C     | 1:A:66:VAL:N     | 0.52     | 2.61        | 43     | 19    |
| 2:A:168:RCY:O1J  | 2:A:176:RCY:C1U  | 0.52     | 2.46        | 16     | 1     |
| 1:A:71:GLU:OE2   | 2:A:176:RCY:H1V  | 0.52     | 1.99        | 17     | 1     |
| 2:A:168:RCY:H1ZB | 2:A:187:RCY:H1Y  | 0.52     | 1.81        | 26     | 1     |
| 2:A:173:RCY:C1W  | 2:A:176:RCY:H1V  | 0.52     | 1.95        | 31     | 1     |
| 2:A:173:RCY:H1ZA | 2:A:176:RCY:H1VA | 0.52     | 1.00        | 31     | 1     |
| 1:A:70:TRP:O     | 1:A:73:CYS:SG    | 0.52     | 2.68        | 41     | 2     |
| 2:A:130:RCY:C1Y  | 2:A:176:RCY:H1CA | 0.52     | 2.35        | 41     | 1     |
| 1:A:64:ILE:CG2   | 1:A:66:VAL:H     | 0.52     | 2.17        | 53     | 1     |
| 2:A:130:RCY:N1R  | 2:A:160:RCY:H1Z  | 0.52     | 2.19        | 67     | 1     |
| 2:A:173:RCY:C1X  | 2:A:187:RCY:H1Y  | 0.52     | 2.33        | 70     | 1     |
| 1:A:71:GLU:CG    | 2:A:173:RCY:C1Y  | 0.52     | 2.87        | 78     | 1     |
| 2:A:150:RCY:H1YA | 2:A:187:RCY:C1U  | 0.52     | 2.23        | 78     | 1     |
| 2:A:110:RCY:H1ZA | 2:A:121:RCY:H1VA | 0.52     | 1.79        | 81     | 1     |
| 2:A:138:RCY:O1J  | 2:A:187:RCY:H1VA | 0.52     | 2.04        | 86     | 2     |
| 2:A:173:RCY:H1C  | 2:A:187:RCY:H1M  | 0.52     | 0.58        | 97     | 1     |
| 1:A:64:ILE:CG1   | 1:A:65:THR:N     | 0.52     | 2.72        | 89     | 2     |
| 2:A:138:RCY:C1Y  | 2:A:168:RCY:O1J  | 0.52     | 2.57        | 19     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:160:RCY:N1V  | 2:A:173:RCY:H1C  | 0.52     | 2.19        | 20     | 1     |
| 1:A:65:THR:HG23  | 1:A:66:VAL:HG22  | 0.52     | 1.82        | 38     | 1     |
| 2:A:150:RCY:O1G  | 2:A:187:RCY:C1Z  | 0.52     | 2.55        | 46     | 2     |
| 2:A:173:RCY:C1X  | 2:A:187:RCY:H1VA | 0.52     | 2.27        | 55     | 1     |
| 1:A:71:GLU:OE1   | 2:A:160:RCY:C1C  | 0.52     | 2.56        | 58     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:N1R  | 0.52     | 2.69        | 71     | 1     |
| 1:A:70:TRP:CD2   | 2:A:176:RCY:H1YB | 0.52     | 2.10        | 80     | 1     |
| 1:A:77:GLU:OE2   | 2:A:176:RCY:C1C  | 0.52     | 2.58        | 7      | 1     |
| 1:A:72:ALA:CB    | 2:A:173:RCY:O1G  | 0.52     | 2.51        | 30     | 1     |
| 1:A:67:ILE:HB    | 2:A:150:RCY:H1V  | 0.52     | 0.55        | 31     | 1     |
| 2:A:176:RCY:H1Y  | 2:A:187:RCY:C1L  | 0.52     | 2.35        | 32     | 1     |
| 2:A:173:RCY:C1X  | 2:A:176:RCY:C1C  | 0.52     | 2.88        | 38     | 1     |
| 1:A:70:TRP:CD1   | 2:A:168:RCY:C1S  | 0.52     | 2.83        | 42     | 1     |
| 1:A:71:GLU:OE1   | 2:A:168:RCY:O1J  | 0.52     | 2.28        | 51     | 1     |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:H1V  | 0.52     | 1.81        | 64     | 1     |
| 2:A:160:RCY:H1VA | 2:A:168:RCY:H1M  | 0.52     | 1.82        | 93     | 1     |
| 1:A:70:TRP:O     | 1:A:72:ALA:N     | 0.52     | 2.43        | 96     | 1     |
| 1:A:72:ALA:HA    | 2:A:173:RCY:C1P  | 0.51     | 2.35        | 21     | 1     |
| 1:A:77:GLU:H     | 2:A:176:RCY:H1L  | 0.51     | 1.65        | 28     | 1     |
| 2:A:173:RCY:H1U  | 2:A:176:RCY:C1P  | 0.51     | 2.33        | 38     | 1     |
| 1:A:76:CYS:SG    | 2:A:173:RCY:H1YA | 0.51     | 2.43        | 42     | 1     |
| 1:A:78:LEU:CD1   | 2:A:176:RCY:C1P  | 0.51     | 2.82        | 56     | 1     |
| 1:A:67:ILE:HG22  | 2:A:173:RCY:C1L  | 0.51     | 2.17        | 73     | 1     |
| 1:A:74:ASN:OD1   | 1:A:75:HIS:CE1   | 0.51     | 2.64        | 76     | 1     |
| 1:A:66:VAL:CG2   | 1:A:67:ILE:H     | 0.51     | 2.12        | 83     | 1     |
| 1:A:71:GLU:CG    | 2:A:176:RCY:H1V  | 0.51     | 2.36        | 92     | 1     |
| 2:A:173:RCY:O1G  | 2:A:176:RCY:C1Y  | 0.51     | 2.52        | 97     | 1     |
| 2:A:160:RCY:N1V  | 2:A:168:RCY:C1W  | 0.51     | 2.71        | 5      | 1     |
| 1:A:68:CYS:C     | 1:A:70:TRP:H     | 0.51     | 2.08        | 69     | 5     |
| 2:A:168:RCY:H1MA | 2:A:176:RCY:C1Y  | 0.51     | 2.35        | 14     | 1     |
| 1:A:71:GLU:CG    | 2:A:173:RCY:C1P  | 0.51     | 2.80        | 17     | 1     |
| 1:A:65:THR:O     | 2:A:176:RCY:H1YB | 0.51     | 2.03        | 22     | 1     |
| 1:A:68:CYS:SG    | 2:A:176:RCY:H1C  | 0.51     | 2.45        | 22     | 1     |
| 2:A:160:RCY:H1CB | 2:A:168:RCY:C1V  | 0.51     | 2.27        | 44     | 1     |
| 1:A:70:TRP:HE1   | 1:A:76:CYS:H     | 0.51     | 1.48        | 57     | 1     |
| 1:A:59:GLY:O     | 1:A:70:TRP:CZ2   | 0.51     | 2.62        | 71     | 1     |
| 1:A:67:ILE:HG21  | 2:A:173:RCY:C1Y  | 0.51     | 2.29        | 80     | 1     |
| 1:A:71:GLU:C     | 1:A:74:ASN:HD21  | 0.51     | 2.09        | 3      | 1     |
| 1:A:62:THR:C     | 1:A:64:ILE:N     | 0.51     | 2.64        | 64     | 14    |
| 2:A:130:RCY:C1M  | 2:A:160:RCY:C1S  | 0.51     | 2.81        | 8      | 1     |
| 2:A:150:RCY:H1YA | 2:A:187:RCY:H1YA | 0.51     | 1.63        | 18     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:78:LEU:N     | 1:A:78:LEU:HD22  | 0.51     | 2.20        | 21     | 3     |
| 1:A:71:GLU:CD    | 2:A:176:RCY:C1X  | 0.51     | 2.78        | 37     | 1     |
| 2:A:130:RCY:N1V  | 2:A:160:RCY:C1Y  | 0.51     | 2.51        | 67     | 1     |
| 2:A:138:RCY:O1H  | 2:A:150:RCY:H1ZB | 0.51     | 1.86        | 82     | 1     |
| 1:A:60:CYS:O     | 2:A:168:RCY:C1U  | 0.51     | 2.48        | 95     | 1     |
| 1:A:67:ILE:HD13  | 2:A:173:RCY:C1Y  | 0.51     | 2.36        | 100    | 1     |
| 1:A:69:PRO:HA    | 2:A:173:RCY:O1H  | 0.51     | 2.04        | 3      | 2     |
| 1:A:69:PRO:CB    | 2:A:187:RCY:C1V  | 0.51     | 2.89        | 14     | 1     |
| 1:A:70:TRP:CD1   | 2:A:187:RCY:C1M  | 0.51     | 2.85        | 16     | 1     |
| 2:A:173:RCY:C1L  | 2:A:176:RCY:H1L  | 0.51     | 2.25        | 28     | 1     |
| 2:A:160:RCY:H1M  | 2:A:168:RCY:C1S  | 0.51     | 2.16        | 34     | 1     |
| 1:A:70:TRP:HB2   | 2:A:173:RCY:H1CA | 0.51     | 1.82        | 40     | 1     |
| 1:A:62:THR:CG2   | 2:A:160:RCY:O1J  | 0.51     | 2.57        | 46     | 1     |
| 2:A:173:RCY:C1V  | 2:A:187:RCY:H1YB | 0.51     | 2.36        | 53     | 1     |
| 1:A:63:ASP:O     | 1:A:64:ILE:CG2   | 0.51     | 2.59        | 88     | 2     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:C1S  | 0.51     | 2.88        | 58     | 1     |
| 2:A:168:RCY:H1ZA | 2:A:176:RCY:H1Z  | 0.51     | 1.79        | 60     | 1     |
| 1:A:73:CYS:O     | 1:A:75:HIS:CE1   | 0.51     | 2.63        | 65     | 1     |
| 2:A:173:RCY:C1V  | 2:A:187:RCY:N1V  | 0.51     | 2.73        | 67     | 1     |
| 1:A:66:VAL:HB    | 2:A:160:RCY:N1V  | 0.51     | 2.20        | 68     | 1     |
| 2:A:168:RCY:H1VA | 2:A:176:RCY:H1C  | 0.51     | 1.81        | 85     | 1     |
| 2:A:150:RCY:C1X  | 2:A:187:RCY:H1V  | 0.51     | 2.28        | 89     | 1     |
| 1:A:75:HIS:CE1   | 1:A:77:GLU:CD    | 0.51     | 2.84        | 96     | 1     |
| 1:A:65:THR:O     | 1:A:66:VAL:CB    | 0.51     | 2.58        | 86     | 11    |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:H1VB | 0.51     | 1.04        | 33     | 1     |
| 1:A:78:LEU:O     | 1:A:78:LEU:CG    | 0.51     | 2.59        | 46     | 1     |
| 2:A:150:RCY:N1R  | 2:A:150:RCY:C1M  | 0.51     | 2.66        | 79     | 1     |
| 1:A:67:ILE:CD1   | 2:A:173:RCY:H1YB | 0.51     | 2.35        | 80     | 1     |
| 2:A:168:RCY:C1U  | 2:A:176:RCY:H1ZA | 0.51     | 2.35        | 98     | 1     |
| 2:A:168:RCY:H1LA | 2:A:173:RCY:C1W  | 0.51     | 2.35        | 5      | 1     |
| 1:A:74:ASN:O     | 2:A:173:RCY:O1G  | 0.51     | 2.28        | 15     | 1     |
| 2:A:173:RCY:H1MA | 2:A:176:RCY:C1C  | 0.51     | 2.30        | 19     | 1     |
| 1:A:65:THR:OG1   | 2:A:150:RCY:C1Y  | 0.51     | 2.58        | 31     | 1     |
| 1:A:69:PRO:CG    | 2:A:176:RCY:H1U  | 0.51     | 2.30        | 31     | 1     |
| 2:A:150:RCY:H1VA | 2:A:173:RCY:H1VA | 0.51     | 0.60        | 31     | 1     |
| 1:A:64:ILE:CG2   | 2:A:160:RCY:H1CB | 0.51     | 2.32        | 48     | 1     |
| 1:A:67:ILE:HG13  | 2:A:168:RCY:H1CB | 0.51     | 1.82        | 51     | 1     |
| 1:A:74:ASN:CG    | 2:A:176:RCY:O1G  | 0.51     | 2.47        | 78     | 1     |
| 2:A:168:RCY:H1VA | 2:A:176:RCY:C1Z  | 0.51     | 2.35        | 3      | 1     |
| 1:A:72:ALA:CA    | 2:A:173:RCY:H1L  | 0.51     | 2.24        | 10     | 1     |
| 2:A:110:RCY:H1M  | 2:A:121:RCY:C1Y  | 0.51     | 2.34        | 22     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:160:RCY:H1VB | 2:A:168:RCY:C1L  | 0.51     | 2.17        | 24     | 1     |
| 1:A:74:ASN:ND2   | 1:A:75:HIS:N     | 0.51     | 2.58        | 29     | 1     |
| 2:A:168:RCY:C1L  | 2:A:176:RCY:H1C  | 0.51     | 2.33        | 49     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:187:RCY:N1R  | 0.51     | 2.74        | 74     | 1     |
| 1:A:68:CYS:SG    | 2:A:176:RCY:C1X  | 0.51     | 2.98        | 77     | 1     |
| 1:A:73:CYS:HA    | 2:A:168:RCY:N1V  | 0.51     | 2.17        | 91     | 1     |
| 1:A:70:TRP:HE1   | 1:A:76:CYS:CB    | 0.51     | 2.19        | 47     | 2     |
| 1:A:77:GLU:CD    | 1:A:78:LEU:N     | 0.51     | 2.64        | 62     | 2     |
| 1:A:70:TRP:C     | 1:A:72:ALA:N     | 0.51     | 2.65        | 96     | 2     |
| 1:A:64:ILE:CD1   | 2:A:187:RCY:C1Y  | 0.51     | 2.81        | 85     | 1     |
| 1:A:66:VAL:HG12  | 1:A:67:ILE:N     | 0.51     | 2.20        | 86     | 1     |
| 2:A:160:RCY:C1X  | 2:A:168:RCY:O1J  | 0.51     | 2.58        | 94     | 1     |
| 2:A:110:RCY:C1V  | 2:A:110:RCY:C1P  | 0.51     | 2.88        | 75     | 2     |
| 2:A:130:RCY:H1U  | 2:A:160:RCY:H1MA | 0.51     | 1.56        | 7      | 1     |
| 2:A:121:RCY:C1P  | 2:A:121:RCY:C1C  | 0.51     | 2.88        | 11     | 3     |
| 1:A:63:ASP:O     | 1:A:64:ILE:HD13  | 0.51     | 2.06        | 24     | 1     |
| 1:A:69:PRO:HD3   | 2:A:173:RCY:C1V  | 0.51     | 2.23        | 30     | 1     |
| 2:A:173:RCY:H1V  | 2:A:187:RCY:H1YB | 0.51     | 1.83        | 31     | 1     |
| 1:A:66:VAL:HA    | 2:A:168:RCY:C1C  | 0.51     | 2.35        | 58     | 1     |
| 1:A:74:ASN:C     | 2:A:176:RCY:H1C  | 0.51     | 2.25        | 62     | 1     |
| 2:A:130:RCY:H1M  | 2:A:160:RCY:H1Y  | 0.51     | 1.81        | 67     | 1     |
| 1:A:73:CYS:O     | 1:A:75:HIS:CD2   | 0.51     | 2.63        | 90     | 1     |
| 1:A:70:TRP:H     | 2:A:173:RCY:C1C  | 0.51     | 2.19        | 92     | 1     |
| 1:A:71:GLU:HG2   | 2:A:176:RCY:H1V  | 0.51     | 1.82        | 92     | 1     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:H1YB | 0.51     | 1.43        | 2      | 1     |
| 2:A:150:RCY:C1P  | 2:A:187:RCY:H1CB | 0.51     | 2.36        | 18     | 1     |
| 2:A:138:RCY:C1Q  | 2:A:176:RCY:C1V  | 0.51     | 2.87        | 29     | 1     |
| 1:A:62:THR:C     | 2:A:138:RCY:C1Z  | 0.51     | 2.80        | 38     | 1     |
| 1:A:74:ASN:HD21  | 2:A:168:RCY:H1YB | 0.51     | 1.56        | 91     | 1     |
| 2:A:160:RCY:H1V  | 2:A:168:RCY:H1V  | 0.50     | 1.83        | 8      | 2     |
| 1:A:64:ILE:HD12  | 2:A:168:RCY:O1G  | 0.50     | 2.06        | 15     | 1     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:C1P  | 0.50     | 2.77        | 15     | 1     |
| 1:A:66:VAL:CG2   | 1:A:67:ILE:N     | 0.50     | 2.74        | 21     | 2     |
| 2:A:168:RCY:H1ZA | 2:A:173:RCY:C1V  | 0.50     | 2.33        | 27     | 1     |
| 2:A:130:RCY:H1Z  | 2:A:168:RCY:H1VA | 0.50     | 1.84        | 34     | 1     |
| 2:A:176:RCY:O1G  | 2:A:187:RCY:O1H  | 0.50     | 2.28        | 38     | 2     |
| 2:A:150:RCY:H1ZB | 2:A:187:RCY:H1VB | 0.50     | 1.83        | 50     | 1     |
| 2:A:138:RCY:H1CB | 2:A:150:RCY:C1P  | 0.50     | 2.33        | 53     | 1     |
| 1:A:69:PRO:HD3   | 2:A:173:RCY:H1ZA | 0.50     | 0.54        | 61     | 1     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:C1V  | 0.50     | 2.89        | 64     | 1     |
| 2:A:138:RCY:H1VB | 2:A:150:RCY:H1MA | 0.50     | 1.84        | 87     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:173:RCY:C1Q  | 2:A:176:RCY:O1G  | 0.50     | 2.49        | 23     | 2     |
| 1:A:64:ILE:CA    | 1:A:68:CYS:SG    | 0.50     | 2.99        | 60     | 3     |
| 1:A:73:CYS:O     | 1:A:74:ASN:CB    | 0.50     | 2.60        | 62     | 7     |
| 1:A:62:THR:H     | 2:A:150:RCY:H1VB | 0.50     | 1.66        | 11     | 1     |
| 1:A:69:PRO:O     | 1:A:71:GLU:N     | 0.50     | 2.44        | 53     | 10    |
| 2:A:138:RCY:C1V  | 2:A:168:RCY:C1C  | 0.50     | 2.69        | 19     | 1     |
| 2:A:150:RCY:H1ZA | 2:A:187:RCY:C1P  | 0.50     | 2.36        | 36     | 1     |
| 1:A:62:THR:C     | 2:A:138:RCY:H1ZA | 0.50     | 2.23        | 38     | 1     |
| 1:A:64:ILE:HG21  | 1:A:67:ILE:O     | 0.50     | 2.06        | 40     | 2     |
| 1:A:78:LEU:O     | 1:A:78:LEU:CD1   | 0.50     | 2.59        | 46     | 3     |
| 2:A:173:RCY:H1CB | 2:A:176:RCY:C1U  | 0.50     | 2.31        | 52     | 1     |
| 2:A:173:RCY:O1H  | 2:A:176:RCY:C1W  | 0.50     | 2.59        | 68     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:173:RCY:C1Q  | 0.50     | 2.88        | 70     | 1     |
| 1:A:76:CYS:CB    | 2:A:168:RCY:O1G  | 0.50     | 2.60        | 73     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:138:RCY:C1Z  | 0.50     | 2.65        | 73     | 1     |
| 1:A:75:HIS:C     | 1:A:76:CYS:SG    | 0.50     | 2.89        | 13     | 7     |
| 2:A:160:RCY:O1J  | 2:A:173:RCY:C1V  | 0.50     | 2.60        | 20     | 1     |
| 2:A:121:RCY:C1C  | 2:A:168:RCY:C1C  | 0.50     | 2.81        | 27     | 1     |
| 1:A:74:ASN:O     | 1:A:75:HIS:CB    | 0.50     | 2.60        | 34     | 4     |
| 1:A:71:GLU:CB    | 2:A:176:RCY:H1C  | 0.50     | 2.37        | 44     | 1     |
| 2:A:138:RCY:O1J  | 2:A:150:RCY:C1V  | 0.50     | 2.58        | 51     | 1     |
| 2:A:160:RCY:H1YA | 2:A:168:RCY:C1P  | 0.50     | 2.16        | 65     | 1     |
| 2:A:160:RCY:H1YA | 2:A:173:RCY:H1CA | 0.50     | 1.80        | 73     | 1     |
| 2:A:138:RCY:C1U  | 2:A:187:RCY:H1CA | 0.50     | 1.97        | 5      | 1     |
| 1:A:64:ILE:O     | 1:A:65:THR:CG2   | 0.50     | 2.60        | 98     | 4     |
| 2:A:173:RCY:C1P  | 2:A:173:RCY:C1V  | 0.50     | 2.87        | 11     | 2     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:H1VA | 0.50     | 1.81        | 18     | 1     |
| 1:A:69:PRO:HA    | 2:A:173:RCY:H1S  | 0.50     | 1.83        | 24     | 1     |
| 1:A:74:ASN:ND2   | 1:A:75:HIS:NE2   | 0.50     | 2.60        | 38     | 1     |
| 2:A:138:RCY:O1H  | 2:A:150:RCY:C1Q  | 0.50     | 2.59        | 41     | 1     |
| 2:A:187:RCY:C1P  | 2:A:187:RCY:C1V  | 0.50     | 2.89        | 61     | 2     |
| 2:A:121:RCY:C1Z  | 2:A:121:RCY:C1S  | 0.50     | 2.88        | 59     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:160:RCY:O1J  | 0.50     | 2.59        | 64     | 1     |
| 2:A:130:RCY:H1YA | 2:A:160:RCY:O1J  | 0.50     | 2.06        | 64     | 1     |
| 1:A:70:TRP:O     | 2:A:176:RCY:H1YB | 0.50     | 2.07        | 70     | 1     |
| 1:A:76:CYS:SG    | 2:A:187:RCY:H1C  | 0.50     | 2.47        | 73     | 1     |
| 2:A:168:RCY:H1U  | 2:A:187:RCY:H1VA | 0.50     | 1.83        | 90     | 1     |
| 1:A:69:PRO:HG3   | 2:A:187:RCY:O1G  | 0.50     | 2.06        | 95     | 1     |
| 2:A:138:RCY:C1C  | 2:A:168:RCY:C1Z  | 0.50     | 2.89        | 97     | 1     |
| 1:A:63:ASP:O     | 1:A:66:VAL:N     | 0.50     | 2.45        | 17     | 1     |
| 1:A:71:GLU:CA    | 2:A:173:RCY:H1S  | 0.50     | 2.36        | 49     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:173:RCY:C1Q  | 2:A:176:RCY:C1U  | 0.50     | 2.82        | 67     | 1     |
| 1:A:67:ILE:HG23  | 2:A:168:RCY:N1R  | 0.50     | 2.22        | 83     | 1     |
| 2:A:173:RCY:O1G  | 2:A:187:RCY:C1Q  | 0.50     | 2.59        | 88     | 1     |
| 1:A:70:TRP:HZ3   | 2:A:150:RCY:H1C  | 0.50     | 1.65        | 93     | 1     |
| 1:A:61:GLY:C     | 1:A:63:ASP:N     | 0.50     | 2.65        | 5      | 11    |
| 2:A:150:RCY:N1V  | 2:A:187:RCY:C1Y  | 0.50     | 2.73        | 18     | 1     |
| 1:A:76:CYS:SG    | 2:A:173:RCY:C1L  | 0.50     | 2.96        | 54     | 1     |
| 1:A:69:PRO:HG3   | 2:A:176:RCY:N1R  | 0.50     | 2.19        | 59     | 1     |
| 1:A:63:ASP:HB2   | 2:A:160:RCY:C1C  | 0.50     | 2.04        | 63     | 1     |
| 2:A:121:RCY:C1P  | 2:A:121:RCY:H1ZB | 0.50     | 2.36        | 78     | 1     |
| 1:A:59:GLY:O     | 2:A:150:RCY:H1L  | 0.50     | 2.06        | 85     | 1     |
| 2:A:160:RCY:C1P  | 2:A:168:RCY:H1MA | 0.50     | 2.37        | 96     | 1     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:H1S  | 0.50     | 2.37        | 98     | 1     |
| 2:A:173:RCY:C1X  | 2:A:176:RCY:H1S  | 0.50     | 2.23        | 33     | 1     |
| 2:A:130:RCY:H1Y  | 2:A:176:RCY:H1CA | 0.50     | 1.84        | 41     | 1     |
| 1:A:70:TRP:HB2   | 2:A:168:RCY:O1H  | 0.50     | 2.06        | 44     | 1     |
| 1:A:76:CYS:CB    | 2:A:173:RCY:H1CA | 0.50     | 2.37        | 73     | 1     |
| 2:A:168:RCY:H1YA | 2:A:187:RCY:H1S  | 0.50     | 0.57        | 88     | 1     |
| 1:A:75:HIS:N     | 2:A:173:RCY:C1C  | 0.50     | 2.75        | 91     | 1     |
| 2:A:168:RCY:H1ZB | 2:A:187:RCY:C1M  | 0.50     | 2.36        | 100    | 1     |
| 1:A:71:GLU:N     | 1:A:74:ASN:ND2   | 0.50     | 2.59        | 3      | 1     |
| 2:A:110:RCY:C1P  | 2:A:110:RCY:H1CA | 0.50     | 2.37        | 31     | 2     |
| 1:A:61:GLY:O     | 1:A:62:THR:CG2   | 0.50     | 2.57        | 60     | 2     |
| 1:A:75:HIS:ND1   | 1:A:75:HIS:C     | 0.50     | 2.65        | 33     | 3     |
| 2:A:138:RCY:O1H  | 2:A:150:RCY:C1V  | 0.50     | 2.42        | 19     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:173:RCY:H1MA | 0.50     | 2.36        | 32     | 1     |
| 1:A:71:GLU:C     | 2:A:173:RCY:C1V  | 0.50     | 2.77        | 33     | 1     |
| 2:A:168:RCY:O1H  | 2:A:173:RCY:H1MA | 0.50     | 2.07        | 36     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:168:RCY:C1Y  | 0.50     | 2.95        | 49     | 1     |
| 2:A:168:RCY:C1Q  | 2:A:168:RCY:H1CA | 0.50     | 2.37        | 60     | 1     |
| 1:A:75:HIS:C     | 2:A:176:RCY:H1CB | 0.50     | 2.27        | 62     | 1     |
| 2:A:173:RCY:C1P  | 2:A:187:RCY:C1Y  | 0.50     | 2.90        | 70     | 1     |
| 1:A:64:ILE:CA    | 2:A:168:RCY:H1ZB | 0.50     | 2.35        | 78     | 1     |
| 1:A:71:GLU:CG    | 2:A:173:RCY:C1C  | 0.50     | 2.90        | 89     | 1     |
| 2:A:150:RCY:H1YB | 2:A:160:RCY:C1P  | 0.50     | 2.37        | 91     | 1     |
| 2:A:138:RCY:C1S  | 2:A:150:RCY:C1V  | 0.50     | 2.90        | 98     | 1     |
| 1:A:70:TRP:O     | 2:A:168:RCY:H1VA | 0.50     | 1.90        | 20     | 1     |
| 1:A:71:GLU:O     | 2:A:176:RCY:C1U  | 0.50     | 2.59        | 20     | 1     |
| 1:A:71:GLU:O     | 1:A:71:GLU:CD    | 0.50     | 2.49        | 40     | 3     |
| 2:A:150:RCY:C1P  | 2:A:150:RCY:C1V  | 0.50     | 2.89        | 49     | 2     |
| 1:A:73:CYS:C     | 2:A:173:RCY:C1C  | 0.50     | 2.77        | 35     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:73:CYS:C     | 2:A:173:RCY:C1S  | 0.50     | 2.80        | 90     | 1     |
| 1:A:75:HIS:O     | 1:A:76:CYS:C     | 0.49     | 2.50        | 13     | 5     |
| 2:A:176:RCY:H1VA | 2:A:187:RCY:C1M  | 0.49     | 2.36        | 29     | 1     |
| 2:A:138:RCY:N1R  | 2:A:187:RCY:H1ZA | 0.49     | 2.22        | 49     | 1     |
| 2:A:168:RCY:C1P  | 2:A:173:RCY:H1YA | 0.49     | 2.37        | 49     | 1     |
| 2:A:150:RCY:H1CA | 2:A:187:RCY:O1J  | 0.49     | 2.06        | 50     | 1     |
| 1:A:63:ASP:O     | 1:A:64:ILE:HG22  | 0.49     | 2.07        | 55     | 1     |
| 1:A:61:GLY:O     | 1:A:62:THR:CB    | 0.49     | 2.59        | 60     | 2     |
| 2:A:138:RCY:C1M  | 2:A:150:RCY:C1Q  | 0.49     | 2.90        | 60     | 1     |
| 2:A:168:RCY:H1V  | 2:A:176:RCY:C1Y  | 0.49     | 1.85        | 76     | 1     |
| 2:A:130:RCY:H1Z  | 2:A:173:RCY:C1U  | 0.49     | 2.34        | 15     | 1     |
| 2:A:160:RCY:C1C  | 2:A:168:RCY:H1Y  | 0.49     | 2.36        | 17     | 1     |
| 1:A:64:ILE:CG2   | 2:A:168:RCY:C1S  | 0.49     | 2.90        | 79     | 1     |
| 2:A:160:RCY:H1Y  | 2:A:168:RCY:N1V  | 0.49     | 2.22        | 89     | 1     |
| 2:A:121:RCY:C1Q  | 2:A:121:RCY:H1VB | 0.49     | 2.31        | 91     | 1     |
| 2:A:160:RCY:H1CA | 2:A:168:RCY:H1Y  | 0.49     | 1.82        | 17     | 1     |
| 2:A:150:RCY:H1Z  | 2:A:176:RCY:C1V  | 0.49     | 2.37        | 26     | 1     |
| 1:A:71:GLU:C     | 1:A:73:CYS:H     | 0.49     | 2.08        | 96     | 4     |
| 1:A:70:TRP:HD1   | 2:A:176:RCY:H1U  | 0.49     | 1.03        | 62     | 1     |
| 1:A:65:THR:CG2   | 2:A:150:RCY:C1C  | 0.49     | 2.83        | 72     | 1     |
| 1:A:64:ILE:HD12  | 1:A:68:CYS:CB    | 0.49     | 2.37        | 75     | 1     |
| 1:A:70:TRP:CD2   | 2:A:176:RCY:C1M  | 0.49     | 2.95        | 80     | 1     |
| 1:A:70:TRP:H     | 2:A:173:RCY:C1X  | 0.49     | 2.21        | 92     | 1     |
| 1:A:75:HIS:C     | 1:A:77:GLU:N     | 0.49     | 2.64        | 99     | 7     |
| 1:A:76:CYS:HA    | 2:A:173:RCY:C1L  | 0.49     | 2.37        | 28     | 1     |
| 2:A:168:RCY:C1V  | 2:A:173:RCY:C1V  | 0.49     | 2.87        | 45     | 1     |
| 1:A:70:TRP:HZ3   | 2:A:160:RCY:H1C  | 0.49     | 1.67        | 48     | 1     |
| 1:A:75:HIS:CA    | 2:A:176:RCY:H1CB | 0.49     | 2.37        | 62     | 1     |
| 2:A:130:RCY:O1J  | 2:A:160:RCY:O1J  | 0.49     | 2.30        | 81     | 1     |
| 1:A:68:CYS:CB    | 1:A:70:TRP:NE1   | 0.49     | 2.75        | 89     | 1     |
| 2:A:130:RCY:C1V  | 2:A:130:RCY:C1P  | 0.49     | 2.85        | 1      | 6     |
| 1:A:74:ASN:C     | 1:A:75:HIS:ND1   | 0.49     | 2.66        | 20     | 3     |
| 1:A:74:ASN:C     | 1:A:76:CYS:H     | 0.49     | 2.10        | 32     | 6     |
| 2:A:173:RCY:C1U  | 2:A:187:RCY:C1M  | 0.49     | 2.87        | 32     | 1     |
| 1:A:64:ILE:CD1   | 1:A:67:ILE:O     | 0.49     | 2.59        | 67     | 1     |
| 1:A:66:VAL:C     | 2:A:168:RCY:H1SA | 0.49     | 2.27        | 79     | 1     |
| 1:A:67:ILE:O     | 2:A:168:RCY:H1M  | 0.49     | 2.03        | 100    | 1     |
| 1:A:70:TRP:CE2   | 1:A:71:GLU:OE2   | 0.49     | 2.65        | 7      | 1     |
| 2:A:160:RCY:H1M  | 2:A:168:RCY:H1Z  | 0.49     | 0.52        | 9      | 1     |
| 1:A:60:CYS:O     | 2:A:130:RCY:H1MA | 0.49     | 2.03        | 18     | 1     |
| 2:A:150:RCY:C1C  | 2:A:168:RCY:C1Z  | 0.49     | 2.91        | 19     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:H1VA | 2:A:176:RCY:C1U  | 0.49     | 2.25        | 20     | 1     |
| 2:A:138:RCY:H1ZA | 2:A:176:RCY:C1Q  | 0.49     | 2.37        | 22     | 1     |
| 2:A:138:RCY:C1V  | 2:A:138:RCY:C1P  | 0.49     | 2.90        | 88     | 3     |
| 1:A:65:THR:CG2   | 2:A:168:RCY:H1L  | 0.49     | 2.26        | 55     | 1     |
| 1:A:71:GLU:HG3   | 2:A:150:RCY:C1X  | 0.49     | 2.26        | 96     | 1     |
| 2:A:150:RCY:O1J  | 2:A:176:RCY:C1L  | 0.49     | 2.60        | 3      | 1     |
| 2:A:168:RCY:C1L  | 2:A:187:RCY:O1J  | 0.49     | 2.59        | 7      | 1     |
| 2:A:168:RCY:C1P  | 2:A:173:RCY:C1U  | 0.49     | 2.89        | 21     | 1     |
| 1:A:68:CYS:O     | 1:A:71:GLU:CG    | 0.49     | 2.60        | 27     | 2     |
| 1:A:72:ALA:C     | 1:A:74:ASN:N     | 0.49     | 2.65        | 68     | 7     |
| 1:A:69:PRO:O     | 2:A:176:RCY:H1VA | 0.49     | 2.08        | 72     | 2     |
| 2:A:160:RCY:C1L  | 2:A:168:RCY:H1CA | 0.49     | 2.37        | 64     | 1     |
| 2:A:138:RCY:H1ZA | 2:A:150:RCY:H1VA | 0.49     | 1.83        | 89     | 1     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:O1J  | 0.49     | 2.55        | 9      | 1     |
| 2:A:176:RCY:H1U  | 2:A:187:RCY:C1U  | 0.49     | 2.18        | 26     | 1     |
| 2:A:168:RCY:O1G  | 2:A:176:RCY:H1VB | 0.49     | 2.08        | 40     | 1     |
| 1:A:74:ASN:CB    | 2:A:176:RCY:C1P  | 0.49     | 2.82        | 52     | 2     |
| 2:A:160:RCY:H1ZB | 2:A:168:RCY:H1VA | 0.49     | 1.77        | 55     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:C1L  | 0.49     | 2.88        | 58     | 1     |
| 1:A:68:CYS:O     | 2:A:173:RCY:H1M  | 0.49     | 2.06        | 73     | 1     |
| 2:A:130:RCY:H1VA | 2:A:173:RCY:C1S  | 0.49     | 2.35        | 5      | 1     |
| 2:A:110:RCY:C1Q  | 2:A:110:RCY:C1V  | 0.49     | 2.81        | 53     | 4     |
| 1:A:73:CYS:O     | 1:A:74:ASN:C     | 0.49     | 2.51        | 34     | 8     |
| 1:A:70:TRP:HA    | 2:A:176:RCY:C1Z  | 0.49     | 2.35        | 18     | 1     |
| 1:A:76:CYS:C     | 1:A:78:LEU:N     | 0.49     | 2.66        | 45     | 3     |
| 1:A:63:ASP:O     | 1:A:68:CYS:SG    | 0.49     | 2.71        | 73     | 4     |
| 1:A:59:GLY:N     | 2:A:160:RCY:C1S  | 0.49     | 2.75        | 85     | 1     |
| 1:A:59:GLY:CA    | 2:A:160:RCY:H1S  | 0.49     | 2.38        | 85     | 1     |
| 1:A:70:TRP:CB    | 2:A:176:RCY:C1C  | 0.49     | 2.91        | 13     | 1     |
| 2:A:138:RCY:C1Z  | 2:A:150:RCY:C1Z  | 0.49     | 2.77        | 30     | 1     |
| 1:A:67:ILE:N     | 2:A:150:RCY:H1M  | 0.49     | 2.23        | 31     | 1     |
| 1:A:73:CYS:HB2   | 2:A:168:RCY:H1U  | 0.49     | 1.84        | 57     | 1     |
| 1:A:65:THR:HG22  | 2:A:150:RCY:C1C  | 0.49     | 2.38        | 72     | 1     |
| 1:A:69:PRO:CD    | 2:A:168:RCY:N1R  | 0.49     | 2.75        | 87     | 1     |
| 2:A:130:RCY:H1YB | 2:A:160:RCY:C1Q  | 0.49     | 2.25        | 88     | 1     |
| 1:A:71:GLU:CD    | 2:A:130:RCY:C1W  | 0.49     | 2.80        | 94     | 1     |
| 1:A:77:GLU:O     | 1:A:78:LEU:O     | 0.48     | 2.31        | 42     | 7     |
| 1:A:70:TRP:CG    | 2:A:176:RCY:H1C  | 0.48     | 2.42        | 13     | 1     |
| 1:A:71:GLU:O     | 2:A:173:RCY:H1VA | 0.48     | 2.05        | 33     | 1     |
| 2:A:150:RCY:H1Y  | 2:A:176:RCY:C1Y  | 0.48     | 2.27        | 37     | 1     |
| 1:A:60:CYS:HB3   | 2:A:168:RCY:H1Z  | 0.48     | 1.78        | 52     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:59:GLY:N     | 2:A:138:RCY:H1S  | 0.48     | 2.18        | 73     | 1     |
| 2:A:138:RCY:H1ZA | 2:A:187:RCY:C1C  | 0.48     | 1.95        | 74     | 1     |
| 1:A:71:GLU:CB    | 2:A:168:RCY:O1G  | 0.48     | 2.44        | 76     | 1     |
| 2:A:110:RCY:H1Z  | 2:A:121:RCY:H1VA | 0.48     | 1.81        | 81     | 1     |
| 1:A:69:PRO:CD    | 2:A:187:RCY:H1YB | 0.48     | 2.37        | 87     | 1     |
| 1:A:70:TRP:CB    | 2:A:173:RCY:C1P  | 0.48     | 2.90        | 6      | 1     |
| 2:A:176:RCY:H1VA | 2:A:187:RCY:C1V  | 0.48     | 0.72        | 33     | 2     |
| 1:A:71:GLU:HA    | 2:A:150:RCY:O1J  | 0.48     | 2.08        | 58     | 1     |
| 1:A:64:ILE:HG22  | 1:A:66:VAL:H     | 0.48     | 1.68        | 74     | 1     |
| 2:A:173:RCY:O1G  | 2:A:187:RCY:N1R  | 0.48     | 2.45        | 88     | 1     |
| 2:A:176:RCY:H1CB | 2:A:187:RCY:H1M  | 0.48     | 1.84        | 88     | 1     |
| 1:A:61:GLY:HA2   | 2:A:168:RCY:C1Z  | 0.48     | 2.38        | 95     | 1     |
| 2:A:173:RCY:C1S  | 2:A:176:RCY:H1L  | 0.48     | 2.32        | 3      | 1     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:H1ZA | 0.48     | 1.77        | 4      | 2     |
| 1:A:70:TRP:CD1   | 1:A:70:TRP:C     | 0.48     | 2.85        | 86     | 4     |
| 1:A:59:GLY:HA3   | 2:A:160:RCY:O1G  | 0.48     | 2.06        | 18     | 1     |
| 1:A:61:GLY:C     | 2:A:160:RCY:C1P  | 0.48     | 2.81        | 19     | 1     |
| 2:A:176:RCY:H1VA | 2:A:187:RCY:H1U  | 0.48     | 1.73        | 29     | 1     |
| 1:A:76:CYS:CA    | 2:A:187:RCY:O1G  | 0.48     | 2.61        | 34     | 1     |
| 1:A:71:GLU:HG3   | 2:A:168:RCY:H1CB | 0.48     | 1.85        | 36     | 2     |
| 1:A:64:ILE:O     | 1:A:66:VAL:HG23  | 0.48     | 2.09        | 40     | 2     |
| 1:A:76:CYS:O     | 2:A:176:RCY:C1P  | 0.48     | 2.61        | 57     | 1     |
| 1:A:69:PRO:O     | 2:A:176:RCY:H1V  | 0.48     | 2.08        | 62     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:C1Q  | 0.48     | 2.39        | 70     | 1     |
| 1:A:78:LEU:CD2   | 2:A:176:RCY:C1W  | 0.48     | 2.18        | 91     | 1     |
| 1:A:78:LEU:HD11  | 2:A:176:RCY:C1M  | 0.48     | 2.35        | 91     | 1     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:H1CB | 0.48     | 2.43        | 94     | 1     |
| 2:A:160:RCY:H1Y  | 2:A:168:RCY:C1C  | 0.48     | 2.36        | 87     | 2     |
| 2:A:176:RCY:C1M  | 2:A:187:RCY:C1L  | 0.48     | 2.86        | 26     | 1     |
| 1:A:70:TRP:CG    | 2:A:173:RCY:H1VA | 0.48     | 2.44        | 38     | 1     |
| 2:A:168:RCY:H1U  | 2:A:173:RCY:C1V  | 0.48     | 2.39        | 48     | 1     |
| 1:A:63:ASP:O     | 1:A:64:ILE:HB    | 0.48     | 2.08        | 93     | 2     |
| 2:A:168:RCY:C1Z  | 2:A:173:RCY:C1Q  | 0.48     | 2.87        | 58     | 1     |
| 2:A:173:RCY:C1S  | 2:A:176:RCY:C1P  | 0.48     | 2.92        | 59     | 1     |
| 1:A:73:CYS:C     | 2:A:176:RCY:C1P  | 0.48     | 2.73        | 70     | 1     |
| 2:A:168:RCY:C1W  | 2:A:173:RCY:C1M  | 0.48     | 2.71        | 70     | 1     |
| 1:A:68:CYS:CA    | 2:A:173:RCY:C1M  | 0.48     | 2.75        | 73     | 1     |
| 1:A:72:ALA:HB3   | 2:A:173:RCY:N1R  | 0.48     | 2.11        | 80     | 1     |
| 1:A:66:VAL:CA    | 2:A:121:RCY:H1YB | 0.48     | 2.36        | 83     | 1     |
| 1:A:68:CYS:SG    | 2:A:150:RCY:C1M  | 0.48     | 2.91        | 85     | 1     |
| 1:A:70:TRP:CE2   | 1:A:71:GLU:HG2   | 0.48     | 2.43        | 86     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:173:RCY:N1R  | 2:A:176:RCY:C1Q  | 0.48     | 2.73        | 96     | 1     |
| 1:A:61:GLY:N     | 2:A:150:RCY:H1VB | 0.48     | 2.07        | 11     | 1     |
| 1:A:62:THR:H     | 2:A:160:RCY:C1S  | 0.48     | 2.11        | 27     | 1     |
| 1:A:75:HIS:HD1   | 1:A:76:CYS:N     | 0.48     | 2.07        | 33     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:176:RCY:H1ZB | 0.48     | 2.31        | 41     | 1     |
| 2:A:173:RCY:C1M  | 2:A:187:RCY:H1VA | 0.48     | 2.38        | 55     | 1     |
| 2:A:168:RCY:O1G  | 2:A:173:RCY:H1Z  | 0.48     | 2.08        | 62     | 1     |
| 2:A:130:RCY:N1V  | 2:A:160:RCY:H1C  | 0.48     | 2.21        | 64     | 1     |
| 2:A:130:RCY:C1Z  | 2:A:138:RCY:O1J  | 0.48     | 2.49        | 73     | 1     |
| 1:A:71:GLU:N     | 2:A:176:RCY:N1V  | 0.48     | 2.55        | 77     | 1     |
| 2:A:173:RCY:H1C  | 2:A:176:RCY:C1P  | 0.48     | 2.38        | 78     | 1     |
| 1:A:76:CYS:O     | 1:A:78:LEU:HD12  | 0.48     | 2.09        | 91     | 1     |
| 2:A:168:RCY:H1YA | 2:A:176:RCY:H1M  | 0.48     | 1.83        | 94     | 1     |
| 1:A:64:ILE:HD12  | 2:A:168:RCY:C1Y  | 0.48     | 2.39        | 95     | 1     |
| 2:A:130:RCY:C1P  | 2:A:130:RCY:C1V  | 0.48     | 2.91        | 14     | 1     |
| 2:A:130:RCY:H1CA | 2:A:160:RCY:N1V  | 0.48     | 2.18        | 16     | 1     |
| 1:A:73:CYS:C     | 1:A:75:HIS:H     | 0.48     | 2.12        | 84     | 7     |
| 1:A:70:TRP:CE3   | 2:A:173:RCY:C1Y  | 0.48     | 2.94        | 26     | 2     |
| 2:A:176:RCY:C1X  | 2:A:187:RCY:C1Y  | 0.48     | 2.79        | 26     | 1     |
| 2:A:150:RCY:C1V  | 2:A:150:RCY:O1G  | 0.48     | 2.62        | 36     | 1     |
| 1:A:62:THR:CG2   | 1:A:63:ASP:N     | 0.48     | 2.76        | 74     | 2     |
| 1:A:68:CYS:SG    | 2:A:173:RCY:C1Z  | 0.48     | 3.02        | 92     | 2     |
| 1:A:69:PRO:HG3   | 2:A:173:RCY:C1U  | 0.48     | 2.21        | 42     | 1     |
| 1:A:71:GLU:HG2   | 2:A:110:RCY:H1ZA | 0.48     | 1.84        | 57     | 1     |
| 1:A:60:CYS:O     | 2:A:138:RCY:H1L  | 0.48     | 2.08        | 64     | 1     |
| 2:A:176:RCY:H1Y  | 2:A:187:RCY:C1Q  | 0.48     | 2.39        | 76     | 1     |
| 1:A:71:GLU:CD    | 2:A:176:RCY:H1ZA | 0.48     | 2.29        | 84     | 1     |
| 1:A:75:HIS:CD2   | 1:A:75:HIS:N     | 0.48     | 2.81        | 86     | 1     |
| 1:A:71:GLU:OE2   | 2:A:176:RCY:H1C  | 0.48     | 2.04        | 97     | 1     |
| 2:A:138:RCY:H1Y  | 2:A:168:RCY:H1YA | 0.48     | 1.80        | 7      | 1     |
| 1:A:70:TRP:C     | 2:A:173:RCY:C1M  | 0.48     | 2.82        | 11     | 1     |
| 1:A:59:GLY:C     | 1:A:61:GLY:N     | 0.48     | 2.67        | 12     | 5     |
| 1:A:64:ILE:HG12  | 2:A:168:RCY:O1G  | 0.48     | 1.76        | 18     | 1     |
| 1:A:69:PRO:HD3   | 2:A:168:RCY:C1P  | 0.48     | 2.38        | 31     | 2     |
| 1:A:63:ASP:HB3   | 2:A:168:RCY:H1ZB | 0.48     | 1.85        | 59     | 1     |
| 2:A:187:RCY:C1P  | 2:A:187:RCY:H1VB | 0.48     | 2.39        | 82     | 1     |
| 1:A:71:GLU:N     | 2:A:168:RCY:C1S  | 0.48     | 2.69        | 83     | 1     |
| 2:A:173:RCY:C1P  | 2:A:173:RCY:C1C  | 0.48     | 2.91        | 85     | 2     |
| 1:A:68:CYS:SG    | 1:A:68:CYS:O     | 0.48     | 2.71        | 88     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:C1S  | 0.48     | 2.90        | 19     | 1     |
| 1:A:71:GLU:OE2   | 2:A:168:RCY:O1H  | 0.48     | 2.20        | 29     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:62:THR:CA    | 2:A:138:RCY:H1ZB | 0.48     | 2.32        | 38     | 1     |
| 1:A:77:GLU:CD    | 1:A:78:LEU:H     | 0.48     | 2.12        | 62     | 1     |
| 1:A:72:ALA:CB    | 2:A:173:RCY:O1J  | 0.48     | 2.62        | 75     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:173:RCY:C1Y  | 0.48     | 2.91        | 99     | 1     |
| 1:A:64:ILE:HG23  | 2:A:160:RCY:H1YB | 0.48     | 1.86        | 1      | 1     |
| 2:A:173:RCY:H1VB | 2:A:187:RCY:H1ZB | 0.48     | 1.79        | 36     | 1     |
| 2:A:168:RCY:C1U  | 2:A:176:RCY:C1S  | 0.48     | 2.76        | 42     | 1     |
| 2:A:138:RCY:C1W  | 2:A:150:RCY:O1H  | 0.48     | 2.62        | 60     | 1     |
| 1:A:63:ASP:C     | 1:A:67:ILE:O     | 0.48     | 2.52        | 68     | 1     |
| 1:A:76:CYS:SG    | 1:A:78:LEU:HD11  | 0.48     | 2.48        | 69     | 1     |
| 2:A:173:RCY:H1U  | 2:A:176:RCY:H1LA | 0.48     | 1.86        | 69     | 2     |
| 1:A:60:CYS:N     | 2:A:160:RCY:H1ZB | 0.48     | 2.21        | 91     | 1     |
| 1:A:63:ASP:O     | 1:A:67:ILE:N     | 0.48     | 2.44        | 26     | 1     |
| 1:A:70:TRP:O     | 1:A:74:ASN:O     | 0.48     | 2.32        | 77     | 2     |
| 1:A:73:CYS:C     | 1:A:75:HIS:N     | 0.48     | 2.66        | 27     | 5     |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:O1H  | 0.48     | 2.62        | 32     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:H1S  | 0.48     | 2.43        | 37     | 1     |
| 2:A:138:RCY:H1MA | 2:A:150:RCY:H1VA | 0.48     | 1.82        | 75     | 1     |
| 2:A:160:RCY:O1J  | 2:A:168:RCY:H1ZA | 0.48     | 2.09        | 76     | 1     |
| 1:A:67:ILE:CG1   | 2:A:160:RCY:C1V  | 0.48     | 2.86        | 86     | 1     |
| 1:A:68:CYS:HB2   | 1:A:70:TRP:NE1   | 0.48     | 2.23        | 89     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:176:RCY:C1C  | 0.48     | 2.91        | 90     | 1     |
| 1:A:71:GLU:OE1   | 2:A:176:RCY:H1V  | 0.48     | 2.01        | 92     | 1     |
| 1:A:68:CYS:CA    | 2:A:173:RCY:O1G  | 0.47     | 2.58        | 10     | 1     |
| 1:A:71:GLU:C     | 2:A:173:RCY:H1S  | 0.47     | 2.29        | 11     | 3     |
| 2:A:173:RCY:O1J  | 2:A:187:RCY:H1ZA | 0.47     | 2.08        | 21     | 1     |
| 2:A:173:RCY:H1M  | 2:A:187:RCY:H1VA | 0.47     | 1.86        | 55     | 1     |
| 2:A:121:RCY:C1C  | 2:A:121:RCY:O1H  | 0.47     | 2.62        | 60     | 1     |
| 2:A:150:RCY:H1U  | 2:A:168:RCY:H1VA | 0.47     | 1.86        | 74     | 1     |
| 1:A:71:GLU:CB    | 2:A:176:RCY:O1H  | 0.47     | 2.59        | 76     | 1     |
| 1:A:69:PRO:O     | 1:A:73:CYS:SG    | 0.47     | 2.71        | 81     | 1     |
| 1:A:75:HIS:O     | 2:A:176:RCY:H1CA | 0.47     | 2.09        | 84     | 1     |
| 1:A:76:CYS:N     | 2:A:176:RCY:O1G  | 0.47     | 2.46        | 91     | 1     |
| 2:A:130:RCY:H1V  | 2:A:173:RCY:H1Y  | 0.47     | 1.78        | 94     | 1     |
| 1:A:78:LEU:O     | 1:A:78:LEU:CD2   | 0.47     | 2.57        | 51     | 3     |
| 1:A:64:ILE:CG1   | 1:A:66:VAL:H     | 0.47     | 2.21        | 81     | 2     |
| 1:A:71:GLU:C     | 1:A:73:CYS:N     | 0.47     | 2.67        | 96     | 3     |
| 1:A:72:ALA:CA    | 2:A:173:RCY:C1P  | 0.47     | 2.85        | 30     | 1     |
| 2:A:173:RCY:C1V  | 2:A:176:RCY:H1CA | 0.47     | 2.38        | 49     | 1     |
| 1:A:65:THR:HG22  | 2:A:168:RCY:C1L  | 0.47     | 2.29        | 55     | 1     |
| 2:A:130:RCY:N1V  | 2:A:160:RCY:C1V  | 0.47     | 2.77        | 67     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:63:ASP:N     | 2:A:160:RCY:H1L  | 0.47     | 2.21        | 3      | 1     |
| 1:A:65:THR:C     | 1:A:67:ILE:N     | 0.47     | 2.67        | 51     | 8     |
| 2:A:138:RCY:C1C  | 2:A:187:RCY:H1C  | 0.47     | 2.38        | 5      | 1     |
| 1:A:70:TRP:CE2   | 2:A:168:RCY:H1L  | 0.47     | 2.44        | 9      | 1     |
| 1:A:59:GLY:C     | 1:A:61:GLY:H     | 0.47     | 2.11        | 37     | 3     |
| 2:A:168:RCY:C1P  | 2:A:176:RCY:C1Z  | 0.47     | 2.85        | 13     | 2     |
| 1:A:63:ASP:OD1   | 2:A:160:RCY:C1V  | 0.47     | 2.62        | 15     | 1     |
| 2:A:173:RCY:H1CA | 2:A:187:RCY:H1Y  | 0.47     | 1.75        | 48     | 1     |
| 1:A:71:GLU:O     | 1:A:71:GLU:OE2   | 0.47     | 2.32        | 88     | 2     |
| 2:A:160:RCY:H1YB | 2:A:168:RCY:H1ZB | 0.47     | 1.82        | 9      | 1     |
| 1:A:71:GLU:HB3   | 2:A:168:RCY:C1M  | 0.47     | 2.23        | 37     | 1     |
| 1:A:65:THR:CG2   | 1:A:66:VAL:N     | 0.47     | 2.77        | 38     | 2     |
| 2:A:150:RCY:C1W  | 2:A:187:RCY:H1CB | 0.47     | 2.37        | 50     | 1     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:H1YA | 0.47     | 1.85        | 54     | 1     |
| 2:A:173:RCY:C1U  | 2:A:187:RCY:O1J  | 0.47     | 2.63        | 55     | 1     |
| 1:A:75:HIS:O     | 1:A:75:HIS:ND1   | 0.47     | 2.48        | 63     | 1     |
| 2:A:130:RCY:N1V  | 2:A:160:RCY:H1YA | 0.47     | 2.21        | 67     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:176:RCY:O1J  | 0.47     | 2.62        | 71     | 1     |
| 1:A:62:THR:OG1   | 1:A:62:THR:O     | 0.47     | 2.32        | 72     | 1     |
| 1:A:67:ILE:HD13  | 2:A:138:RCY:O1G  | 0.47     | 2.10        | 72     | 1     |
| 1:A:63:ASP:HA    | 2:A:138:RCY:C1P  | 0.47     | 2.40        | 75     | 1     |
| 2:A:168:RCY:H1ZB | 2:A:187:RCY:H1MA | 0.47     | 1.83        | 84     | 2     |
| 1:A:78:LEU:C     | 1:A:78:LEU:CD1   | 0.47     | 2.82        | 76     | 5     |
| 1:A:69:PRO:C     | 1:A:71:GLU:N     | 0.47     | 2.67        | 79     | 15    |
| 1:A:68:CYS:C     | 1:A:70:TRP:N     | 0.47     | 2.68        | 75     | 9     |
| 1:A:72:ALA:HB3   | 2:A:173:RCY:O1G  | 0.47     | 2.09        | 10     | 1     |
| 1:A:60:CYS:C     | 2:A:160:RCY:O1H  | 0.47     | 2.52        | 29     | 1     |
| 1:A:78:LEU:CD2   | 2:A:138:RCY:C1V  | 0.47     | 2.88        | 40     | 1     |
| 1:A:70:TRP:O     | 2:A:168:RCY:O1G  | 0.47     | 2.32        | 56     | 1     |
| 2:A:173:RCY:H1VB | 2:A:187:RCY:C1W  | 0.47     | 2.34        | 67     | 1     |
| 1:A:71:GLU:CD    | 2:A:168:RCY:H1LA | 0.47     | 2.30        | 74     | 1     |
| 2:A:130:RCY:C1P  | 2:A:130:RCY:H1CA | 0.47     | 2.39        | 76     | 1     |
| 1:A:64:ILE:HG21  | 2:A:168:RCY:C1Y  | 0.47     | 2.40        | 95     | 1     |
| 1:A:64:ILE:CD1   | 2:A:160:RCY:H1CB | 0.47     | 2.38        | 96     | 1     |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:H1L  | 0.47     | 1.86        | 6      | 1     |
| 1:A:67:ILE:HA    | 2:A:168:RCY:H1L  | 0.47     | 1.85        | 21     | 1     |
| 1:A:71:GLU:HG2   | 2:A:168:RCY:C1L  | 0.47     | 2.14        | 29     | 1     |
| 1:A:59:GLY:O     | 2:A:168:RCY:H1Z  | 0.47     | 2.10        | 52     | 1     |
| 2:A:187:RCY:C1Z  | 2:A:187:RCY:C1Q  | 0.47     | 2.92        | 58     | 1     |
| 1:A:75:HIS:CE1   | 1:A:77:GLU:H     | 0.47     | 2.28        | 66     | 1     |
| 2:A:138:RCY:H1V  | 2:A:150:RCY:C1P  | 0.47     | 2.40        | 80     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:71:GLU:CB    | 2:A:168:RCY:H1C  | 0.47     | 2.34        | 86     | 1     |
| 1:A:71:GLU:O     | 2:A:173:RCY:C1U  | 0.47     | 2.62        | 94     | 1     |
| 2:A:150:RCY:H1Z  | 2:A:176:RCY:C1S  | 0.47     | 2.39        | 3      | 1     |
| 1:A:74:ASN:O     | 1:A:75:HIS:CD2   | 0.47     | 2.67        | 90     | 4     |
| 1:A:75:HIS:HA    | 2:A:176:RCY:O1H  | 0.47     | 2.10        | 10     | 1     |
| 2:A:110:RCY:C1P  | 2:A:110:RCY:C1V  | 0.47     | 2.88        | 12     | 2     |
| 2:A:168:RCY:C1M  | 2:A:176:RCY:C1Y  | 0.47     | 2.92        | 14     | 2     |
| 1:A:60:CYS:O     | 2:A:130:RCY:C1M  | 0.47     | 2.59        | 18     | 1     |
| 1:A:59:GLY:O     | 1:A:60:CYS:C     | 0.47     | 2.52        | 57     | 3     |
| 2:A:176:RCY:H1YB | 2:A:187:RCY:H1C  | 0.47     | 1.79        | 27     | 1     |
| 2:A:150:RCY:H1VA | 2:A:173:RCY:C1C  | 0.47     | 2.39        | 31     | 1     |
| 2:A:173:RCY:H1ZA | 2:A:187:RCY:O1J  | 0.47     | 2.10        | 31     | 1     |
| 2:A:176:RCY:C1P  | 2:A:176:RCY:H1VB | 0.47     | 2.40        | 35     | 1     |
| 2:A:138:RCY:H1CB | 2:A:187:RCY:H1VB | 0.47     | 1.86        | 39     | 1     |
| 1:A:69:PRO:O     | 1:A:74:ASN:N     | 0.47     | 2.48        | 42     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:O1J  | 0.47     | 2.47        | 76     | 2     |
| 1:A:70:TRP:CE3   | 2:A:110:RCY:H1Z  | 0.47     | 2.44        | 59     | 1     |
| 2:A:138:RCY:C1C  | 2:A:150:RCY:H1M  | 0.47     | 2.39        | 62     | 1     |
| 2:A:168:RCY:C1L  | 2:A:176:RCY:H1MA | 0.47     | 2.39        | 62     | 1     |
| 2:A:130:RCY:H1Y  | 2:A:160:RCY:N1V  | 0.47     | 2.25        | 81     | 1     |
| 2:A:168:RCY:H1Z  | 2:A:176:RCY:C1V  | 0.47     | 2.40        | 84     | 1     |
| 1:A:66:VAL:HG11  | 2:A:121:RCY:H1ZA | 0.47     | 1.85        | 89     | 1     |
| 1:A:78:LEU:HD23  | 2:A:187:RCY:C1V  | 0.47     | 2.38        | 91     | 1     |
| 1:A:70:TRP:NE1   | 2:A:173:RCY:C1L  | 0.47     | 2.77        | 93     | 1     |
| 1:A:70:TRP:NE1   | 2:A:173:RCY:C1P  | 0.47     | 2.77        | 93     | 1     |
| 1:A:70:TRP:CE3   | 2:A:160:RCY:C1Y  | 0.47     | 2.91        | 94     | 1     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:H1MA | 0.47     | 2.39        | 97     | 1     |
| 1:A:71:GLU:OE1   | 2:A:168:RCY:H1M  | 0.47     | 2.09        | 99     | 1     |
| 2:A:110:RCY:O1J  | 2:A:121:RCY:C1W  | 0.47     | 2.61        | 5      | 1     |
| 1:A:70:TRP:HB3   | 2:A:176:RCY:H1M  | 0.47     | 1.79        | 6      | 1     |
| 1:A:76:CYS:HB3   | 2:A:173:RCY:H1L  | 0.47     | 1.85        | 14     | 1     |
| 2:A:160:RCY:H1CA | 2:A:168:RCY:C1Y  | 0.47     | 2.40        | 17     | 1     |
| 2:A:138:RCY:H1VA | 2:A:160:RCY:H1Y  | 0.47     | 1.87        | 29     | 1     |
| 1:A:76:CYS:N     | 2:A:176:RCY:H1ZB | 0.47     | 2.24        | 44     | 1     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:C1M  | 0.47     | 2.90        | 69     | 1     |
| 1:A:64:ILE:HD12  | 1:A:69:PRO:HD3   | 0.47     | 1.86        | 71     | 1     |
| 1:A:59:GLY:C     | 2:A:150:RCY:H1L  | 0.47     | 2.30        | 85     | 1     |
| 2:A:173:RCY:H1Y  | 2:A:176:RCY:H1C  | 0.47     | 1.86        | 3      | 1     |
| 1:A:74:ASN:N     | 2:A:173:RCY:O1J  | 0.47     | 2.47        | 22     | 1     |
| 1:A:64:ILE:CG2   | 1:A:68:CYS:SG    | 0.47     | 3.03        | 24     | 1     |
| 1:A:70:TRP:HD1   | 2:A:176:RCY:C1L  | 0.47     | 2.20        | 32     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:71:GLU:OE1   | 1:A:71:GLU:O     | 0.47     | 2.32        | 49     | 2     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:H1CA | 0.47     | 1.80        | 49     | 1     |
| 1:A:69:PRO:CG    | 2:A:176:RCY:H1ZA | 0.47     | 2.23        | 66     | 1     |
| 1:A:69:PRO:HD3   | 2:A:168:RCY:H1CB | 0.47     | 1.81        | 66     | 1     |
| 1:A:74:ASN:OD1   | 1:A:75:HIS:CG    | 0.47     | 2.67        | 76     | 1     |
| 2:A:173:RCY:H1VA | 2:A:187:RCY:C1Q  | 0.47     | 2.40        | 76     | 1     |
| 1:A:65:THR:O     | 2:A:121:RCY:C1Y  | 0.47     | 2.62        | 83     | 1     |
| 2:A:150:RCY:H1Z  | 2:A:176:RCY:H1YB | 0.47     | 1.85        | 83     | 1     |
| 1:A:59:GLY:H     | 2:A:160:RCY:H1ZA | 0.47     | 1.70        | 91     | 1     |
| 2:A:160:RCY:H1VA | 2:A:168:RCY:C1M  | 0.47     | 2.39        | 93     | 1     |
| 1:A:60:CYS:HB3   | 2:A:168:RCY:C1C  | 0.47     | 2.20        | 95     | 1     |
| 2:A:173:RCY:N1V  | 2:A:187:RCY:C1L  | 0.47     | 2.60        | 96     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:173:RCY:H1YB | 0.47     | 2.40        | 99     | 1     |
| 1:A:67:ILE:O     | 2:A:168:RCY:C1V  | 0.47     | 2.63        | 5      | 1     |
| 1:A:75:HIS:O     | 1:A:76:CYS:CB    | 0.47     | 2.60        | 87     | 6     |
| 1:A:73:CYS:O     | 1:A:74:ASN:CG    | 0.47     | 2.53        | 42     | 11    |
| 2:A:168:RCY:H1U  | 2:A:173:RCY:O1J  | 0.47     | 2.10        | 10     | 1     |
| 1:A:70:TRP:CB    | 2:A:176:RCY:H1C  | 0.47     | 2.38        | 13     | 1     |
| 1:A:70:TRP:CA    | 2:A:168:RCY:H1VB | 0.47     | 2.28        | 22     | 1     |
| 2:A:110:RCY:H1ZB | 2:A:110:RCY:O1G  | 0.47     | 2.01        | 35     | 1     |
| 2:A:138:RCY:C1S  | 2:A:150:RCY:C1C  | 0.47     | 2.93        | 43     | 1     |
| 1:A:71:GLU:HB3   | 2:A:176:RCY:H1C  | 0.47     | 1.86        | 44     | 1     |
| 2:A:160:RCY:H1M  | 2:A:168:RCY:H1V  | 0.47     | 0.78        | 48     | 1     |
| 1:A:61:GLY:C     | 1:A:62:THR:OG1   | 0.47     | 2.53        | 60     | 2     |
| 2:A:138:RCY:O1G  | 2:A:160:RCY:H1CB | 0.47     | 2.10        | 67     | 1     |
| 2:A:150:RCY:H1CB | 2:A:176:RCY:N1R  | 0.47     | 2.24        | 82     | 1     |
| 1:A:71:GLU:O     | 1:A:71:GLU:CG    | 0.47     | 2.63        | 88     | 1     |
| 2:A:173:RCY:C1Q  | 2:A:187:RCY:H1CB | 0.47     | 2.35        | 99     | 1     |
| 1:A:74:ASN:OD1   | 1:A:74:ASN:O     | 0.46     | 2.32        | 42     | 2     |
| 1:A:75:HIS:C     | 2:A:176:RCY:C1Q  | 0.46     | 2.80        | 10     | 1     |
| 2:A:138:RCY:C1C  | 2:A:138:RCY:C1Q  | 0.46     | 2.93        | 13     | 1     |
| 1:A:67:ILE:HA    | 2:A:168:RCY:C1L  | 0.46     | 2.39        | 21     | 1     |
| 2:A:173:RCY:H1V  | 2:A:187:RCY:H1ZB | 0.46     | 1.83        | 36     | 1     |
| 1:A:63:ASP:OD2   | 2:A:121:RCY:N1V  | 0.46     | 2.48        | 42     | 1     |
| 2:A:150:RCY:H1ZB | 2:A:150:RCY:O1G  | 0.46     | 2.10        | 56     | 1     |
| 1:A:67:ILE:CG2   | 1:A:72:ALA:HB2   | 0.46     | 2.40        | 60     | 1     |
| 2:A:138:RCY:N1V  | 2:A:160:RCY:C1Q  | 0.46     | 2.78        | 73     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:173:RCY:H1CA | 0.46     | 2.41        | 73     | 1     |
| 1:A:75:HIS:HB3   | 2:A:176:RCY:H1C  | 0.46     | 1.84        | 84     | 1     |
| 2:A:138:RCY:C1M  | 2:A:150:RCY:O1G  | 0.46     | 2.38        | 1      | 1     |
| 2:A:138:RCY:C1P  | 2:A:138:RCY:C1C  | 0.46     | 2.89        | 63     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:69:PRO:HD3   | 2:A:168:RCY:C1U  | 0.46     | 2.39        | 87     | 2     |
| 2:A:160:RCY:C1C  | 2:A:168:RCY:C1Y  | 0.46     | 2.93        | 17     | 1     |
| 2:A:138:RCY:H1ZA | 2:A:176:RCY:C1P  | 0.46     | 2.40        | 22     | 1     |
| 2:A:150:RCY:H1YB | 2:A:160:RCY:C1Y  | 0.46     | 2.38        | 29     | 1     |
| 1:A:64:ILE:HG21  | 1:A:67:ILE:C     | 0.46     | 2.31        | 40     | 2     |
| 2:A:168:RCY:H1M  | 2:A:173:RCY:C1V  | 0.46     | 2.39        | 45     | 1     |
| 1:A:69:PRO:N     | 2:A:173:RCY:H1ZA | 0.46     | 2.15        | 61     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:O1J  | 0.46     | 2.49        | 92     | 2     |
| 2:A:168:RCY:O1J  | 2:A:187:RCY:H1VB | 0.46     | 1.96        | 70     | 1     |
| 2:A:110:RCY:H1YB | 2:A:121:RCY:H1VA | 0.46     | 1.56        | 81     | 1     |
| 2:A:173:RCY:H1CB | 2:A:176:RCY:H1Z  | 0.46     | 1.83        | 84     | 1     |
| 1:A:72:ALA:HB3   | 2:A:121:RCY:O1J  | 0.46     | 2.10        | 94     | 1     |
| 1:A:69:PRO:HG3   | 2:A:150:RCY:H1YA | 0.46     | 1.87        | 3      | 1     |
| 1:A:75:HIS:O     | 2:A:176:RCY:H1L  | 0.46     | 2.09        | 13     | 1     |
| 2:A:150:RCY:H1VB | 2:A:160:RCY:C1V  | 0.46     | 2.05        | 42     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:O1H  | 0.46     | 2.09        | 70     | 1     |
| 2:A:173:RCY:N1V  | 2:A:176:RCY:H1ZA | 0.46     | 2.26        | 77     | 1     |
| 1:A:59:GLY:C     | 2:A:160:RCY:O1H  | 0.46     | 2.46        | 91     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:H1L  | 0.46     | 2.26        | 1      | 2     |
| 1:A:60:CYS:HA    | 2:A:138:RCY:C1V  | 0.46     | 2.40        | 7      | 1     |
| 2:A:138:RCY:C1Y  | 2:A:168:RCY:C1Y  | 0.46     | 2.73        | 7      | 1     |
| 2:A:160:RCY:C1P  | 2:A:160:RCY:C1V  | 0.46     | 2.93        | 9      | 1     |
| 1:A:70:TRP:O     | 2:A:173:RCY:C1Q  | 0.46     | 2.63        | 68     | 2     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:O1G  | 0.46     | 2.22        | 12     | 1     |
| 1:A:67:ILE:CA    | 2:A:176:RCY:C1V  | 0.46     | 2.42        | 16     | 1     |
| 1:A:71:GLU:CD    | 2:A:173:RCY:O1G  | 0.46     | 2.51        | 17     | 1     |
| 1:A:69:PRO:HG3   | 2:A:173:RCY:H1L  | 0.46     | 1.87        | 24     | 1     |
| 1:A:65:THR:C     | 1:A:66:VAL:CG2   | 0.46     | 2.84        | 34     | 2     |
| 1:A:67:ILE:HA    | 2:A:168:RCY:H1CB | 0.46     | 1.86        | 27     | 1     |
| 1:A:64:ILE:CD1   | 1:A:68:CYS:SG    | 0.46     | 3.02        | 39     | 1     |
| 2:A:150:RCY:H1V  | 2:A:160:RCY:H1YA | 0.46     | 1.61        | 42     | 1     |
| 1:A:66:VAL:HG21  | 2:A:150:RCY:O1G  | 0.46     | 2.10        | 61     | 1     |
| 1:A:71:GLU:HA    | 2:A:173:RCY:H1CB | 0.46     | 1.87        | 84     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:H1CB | 0.46     | 2.27        | 86     | 1     |
| 2:A:168:RCY:N1V  | 2:A:187:RCY:C1P  | 0.46     | 2.79        | 88     | 1     |
| 2:A:168:RCY:H1C  | 2:A:176:RCY:H1Z  | 0.46     | 1.23        | 3      | 1     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:H1MA | 0.46     | 2.41        | 4      | 1     |
| 2:A:176:RCY:H1VB | 2:A:187:RCY:C1Y  | 0.46     | 2.34        | 4      | 1     |
| 2:A:176:RCY:C1V  | 2:A:187:RCY:H1VA | 0.46     | 0.82        | 33     | 1     |
| 1:A:65:THR:CG2   | 1:A:66:VAL:HG22  | 0.46     | 2.39        | 38     | 1     |
| 2:A:138:RCY:H1Y  | 2:A:187:RCY:H1MA | 0.46     | 1.88        | 63     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:138:RCY:H1M  | 2:A:187:RCY:C1W  | 0.46     | 2.38        | 68     | 1     |
| 2:A:121:RCY:C1P  | 2:A:121:RCY:H1VB | 0.46     | 2.40        | 85     | 1     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:C1X  | 0.46     | 2.97        | 94     | 1     |
| 1:A:64:ILE:O     | 1:A:68:CYS:N     | 0.46     | 2.49        | 93     | 2     |
| 2:A:138:RCY:C1X  | 2:A:173:RCY:C1Z  | 0.46     | 2.94        | 15     | 1     |
| 1:A:67:ILE:CA    | 2:A:168:RCY:H1CB | 0.46     | 2.41        | 27     | 1     |
| 1:A:67:ILE:HG21  | 2:A:150:RCY:C1V  | 0.46     | 2.38        | 31     | 1     |
| 1:A:77:GLU:HB2   | 2:A:176:RCY:O1G  | 0.46     | 2.11        | 31     | 1     |
| 1:A:69:PRO:O     | 2:A:150:RCY:O1J  | 0.46     | 2.34        | 34     | 1     |
| 1:A:70:TRP:CB    | 2:A:168:RCY:O1H  | 0.46     | 2.64        | 44     | 1     |
| 1:A:71:GLU:CB    | 2:A:176:RCY:C1C  | 0.46     | 2.93        | 44     | 1     |
| 2:A:121:RCY:C1M  | 2:A:160:RCY:H1ZA | 0.46     | 2.40        | 44     | 1     |
| 2:A:173:RCY:N1R  | 2:A:176:RCY:O1G  | 0.46     | 2.48        | 59     | 1     |
| 2:A:150:RCY:C1Q  | 2:A:150:RCY:H1CA | 0.46     | 2.41        | 64     | 1     |
| 2:A:150:RCY:C1C  | 2:A:187:RCY:C1Z  | 0.46     | 2.94        | 81     | 1     |
| 2:A:138:RCY:O1J  | 2:A:187:RCY:N1V  | 0.46     | 2.48        | 100    | 1     |
| 2:A:130:RCY:H1ZB | 2:A:130:RCY:C1L  | 0.46     | 2.41        | 2      | 1     |
| 1:A:72:ALA:O     | 1:A:74:ASN:OD1   | 0.46     | 2.34        | 15     | 4     |
| 1:A:61:GLY:O     | 1:A:63:ASP:OD1   | 0.46     | 2.34        | 40     | 3     |
| 1:A:65:THR:O     | 1:A:66:VAL:CG1   | 0.46     | 2.59        | 10     | 2     |
| 1:A:64:ILE:C     | 1:A:65:THR:OG1   | 0.46     | 2.53        | 11     | 1     |
| 1:A:71:GLU:CB    | 2:A:173:RCY:H1YA | 0.46     | 2.36        | 33     | 1     |
| 2:A:150:RCY:O1H  | 2:A:187:RCY:O1G  | 0.46     | 2.34        | 50     | 1     |
| 2:A:138:RCY:C1M  | 2:A:150:RCY:H1VA | 0.46     | 2.35        | 75     | 1     |
| 1:A:71:GLU:HB3   | 2:A:176:RCY:O1H  | 0.46     | 2.11        | 76     | 1     |
| 1:A:71:GLU:O     | 1:A:74:ASN:OD1   | 0.46     | 2.34        | 50     | 2     |
| 1:A:64:ILE:O     | 1:A:68:CYS:CB    | 0.46     | 2.63        | 5      | 1     |
| 1:A:69:PRO:HB2   | 2:A:187:RCY:C1V  | 0.46     | 2.33        | 14     | 1     |
| 1:A:68:CYS:HB2   | 1:A:70:TRP:CE2   | 0.46     | 2.45        | 53     | 2     |
| 2:A:168:RCY:C1C  | 2:A:173:RCY:H1YB | 0.46     | 2.07        | 21     | 1     |
| 1:A:71:GLU:OE2   | 2:A:176:RCY:C1X  | 0.46     | 2.54        | 37     | 1     |
| 1:A:60:CYS:O     | 1:A:64:ILE:CG2   | 0.46     | 2.64        | 44     | 1     |
| 2:A:173:RCY:H1VB | 2:A:187:RCY:C1P  | 0.46     | 2.41        | 57     | 1     |
| 1:A:70:TRP:HA    | 2:A:173:RCY:H1YB | 0.46     | 1.85        | 85     | 1     |
| 2:A:173:RCY:C1C  | 2:A:187:RCY:C1U  | 0.46     | 2.92        | 88     | 1     |
| 1:A:61:GLY:CA    | 2:A:168:RCY:H1MA | 0.46     | 2.41        | 95     | 1     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:H1VB | 0.46     | 2.40        | 58     | 1     |
| 1:A:69:PRO:O     | 1:A:74:ASN:O     | 0.46     | 2.33        | 59     | 1     |
| 1:A:68:CYS:HB3   | 1:A:69:PRO:HD2   | 0.46     | 1.87        | 63     | 1     |
| 1:A:69:PRO:CG    | 2:A:168:RCY:C1V  | 0.46     | 2.93        | 63     | 1     |
| 1:A:71:GLU:N     | 2:A:176:RCY:O1J  | 0.46     | 2.49        | 77     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:74:ASN:CB    | 2:A:176:RCY:C1L  | 0.46     | 2.87        | 78     | 1     |
| 1:A:69:PRO:CD    | 2:A:150:RCY:H1V  | 0.46     | 2.33        | 85     | 1     |
| 1:A:66:VAL:HG12  | 1:A:67:ILE:HD12  | 0.46     | 1.88        | 95     | 1     |
| 2:A:173:RCY:H1VB | 2:A:176:RCY:C1Z  | 0.46     | 2.41        | 2      | 1     |
| 2:A:176:RCY:C1M  | 2:A:187:RCY:H1ZA | 0.46     | 2.30        | 5      | 1     |
| 2:A:150:RCY:H1YB | 2:A:173:RCY:H1Z  | 0.46     | 1.87        | 8      | 1     |
| 1:A:60:CYS:C     | 2:A:130:RCY:C1U  | 0.46     | 2.83        | 18     | 1     |
| 1:A:60:CYS:C     | 2:A:160:RCY:H1S  | 0.46     | 2.30        | 24     | 1     |
| 2:A:138:RCY:C1P  | 2:A:138:RCY:H1VB | 0.46     | 2.40        | 37     | 1     |
| 1:A:72:ALA:C     | 1:A:74:ASN:ND2   | 0.46     | 2.69        | 87     | 1     |
| 1:A:70:TRP:HE1   | 2:A:173:RCY:C1L  | 0.46     | 2.23        | 93     | 1     |
| 2:A:160:RCY:H1YA | 2:A:168:RCY:N1R  | 0.46     | 2.22        | 100    | 1     |
| 2:A:176:RCY:H1V  | 2:A:187:RCY:O1G  | 0.45     | 2.11        | 10     | 1     |
| 1:A:76:CYS:O     | 1:A:77:GLU:O     | 0.45     | 2.34        | 90     | 9     |
| 1:A:67:ILE:C     | 2:A:168:RCY:H1L  | 0.45     | 2.30        | 91     | 2     |
| 2:A:176:RCY:C1Z  | 2:A:176:RCY:O1G  | 0.45     | 2.65        | 38     | 1     |
| 2:A:168:RCY:C1W  | 2:A:173:RCY:H1VA | 0.45     | 1.92        | 45     | 1     |
| 2:A:150:RCY:O1G  | 2:A:150:RCY:N1V  | 0.45     | 2.50        | 56     | 1     |
| 1:A:73:CYS:O     | 1:A:74:ASN:OD1   | 0.45     | 2.34        | 62     | 1     |
| 1:A:76:CYS:SG    | 1:A:78:LEU:O     | 0.45     | 2.74        | 1      | 1     |
| 2:A:130:RCY:C1Z  | 2:A:130:RCY:C1L  | 0.45     | 2.92        | 2      | 1     |
| 1:A:71:GLU:CD    | 2:A:110:RCY:O1G  | 0.45     | 2.52        | 5      | 1     |
| 2:A:150:RCY:H1M  | 2:A:160:RCY:C1Z  | 0.45     | 2.41        | 21     | 1     |
| 2:A:168:RCY:C1P  | 2:A:173:RCY:H1U  | 0.45     | 2.42        | 21     | 1     |
| 1:A:62:THR:O     | 1:A:62:THR:OG1   | 0.45     | 2.31        | 34     | 2     |
| 2:A:168:RCY:C1U  | 2:A:173:RCY:C1M  | 0.45     | 2.83        | 27     | 1     |
| 1:A:69:PRO:HG3   | 2:A:173:RCY:H1VB | 0.45     | 1.89        | 30     | 1     |
| 2:A:168:RCY:H1YA | 2:A:187:RCY:H1ZB | 0.45     | 1.87        | 31     | 1     |
| 1:A:75:HIS:C     | 1:A:75:HIS:HD1   | 0.45     | 2.14        | 33     | 1     |
| 2:A:138:RCY:C1P  | 2:A:187:RCY:C1V  | 0.45     | 2.90        | 39     | 1     |
| 2:A:110:RCY:O1G  | 2:A:110:RCY:N1V  | 0.45     | 2.49        | 42     | 2     |
| 2:A:130:RCY:C1Q  | 2:A:160:RCY:O1G  | 0.45     | 2.64        | 62     | 1     |
| 2:A:138:RCY:H1C  | 2:A:160:RCY:H1ZA | 0.45     | 1.88        | 71     | 1     |
| 1:A:64:ILE:N     | 1:A:64:ILE:CD1   | 0.45     | 2.76        | 72     | 1     |
| 1:A:67:ILE:CG2   | 2:A:168:RCY:H1U  | 0.45     | 2.39        | 83     | 1     |
| 1:A:59:GLY:H     | 2:A:160:RCY:H1S  | 0.45     | 1.70        | 85     | 1     |
| 1:A:64:ILE:N     | 2:A:138:RCY:H1VB | 0.45     | 2.19        | 85     | 1     |
| 1:A:62:THR:OG1   | 1:A:65:THR:CA    | 0.45     | 2.64        | 87     | 1     |
| 2:A:173:RCY:C1X  | 2:A:176:RCY:O1J  | 0.45     | 2.65        | 3      | 1     |
| 2:A:130:RCY:C1C  | 2:A:173:RCY:O1G  | 0.45     | 2.64        | 18     | 1     |
| 1:A:73:CYS:C     | 2:A:173:RCY:C1W  | 0.45     | 2.84        | 22     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:68:CYS:O     | 1:A:69:PRO:C     | 0.45     | 2.54        | 90     | 10    |
| 2:A:173:RCY:O1G  | 2:A:173:RCY:H1CB | 0.45     | 2.07        | 69     | 2     |
| 1:A:59:GLY:O     | 1:A:60:CYS:CB    | 0.45     | 2.64        | 41     | 1     |
| 2:A:138:RCY:H1Y  | 2:A:176:RCY:C1S  | 0.45     | 2.42        | 48     | 1     |
| 2:A:121:RCY:C1Q  | 2:A:121:RCY:C1V  | 0.45     | 2.86        | 51     | 2     |
| 1:A:74:ASN:O     | 1:A:74:ASN:ND2   | 0.45     | 2.48        | 74     | 1     |
| 1:A:72:ALA:O     | 1:A:76:CYS:SG    | 0.45     | 2.74        | 75     | 1     |
| 1:A:64:ILE:HA    | 2:A:168:RCY:C1S  | 0.45     | 2.41        | 5      | 1     |
| 1:A:68:CYS:HB3   | 2:A:173:RCY:C1Z  | 0.45     | 2.41        | 5      | 1     |
| 2:A:150:RCY:C1C  | 2:A:187:RCY:H1C  | 0.45     | 2.33        | 18     | 1     |
| 2:A:130:RCY:O1J  | 2:A:160:RCY:C1U  | 0.45     | 2.63        | 23     | 1     |
| 2:A:138:RCY:H1S  | 2:A:160:RCY:N1R  | 0.45     | 2.23        | 27     | 1     |
| 2:A:138:RCY:H1MA | 2:A:187:RCY:H1C  | 0.45     | 1.88        | 37     | 1     |
| 2:A:138:RCY:O1J  | 2:A:150:RCY:C1W  | 0.45     | 2.64        | 43     | 1     |
| 1:A:77:GLU:OE1   | 1:A:77:GLU:N     | 0.45     | 2.45        | 48     | 2     |
| 1:A:62:THR:O     | 2:A:160:RCY:H1C  | 0.45     | 2.08        | 46     | 1     |
| 2:A:138:RCY:H1CA | 2:A:160:RCY:C1C  | 0.45     | 2.23        | 49     | 1     |
| 1:A:70:TRP:HH2   | 2:A:168:RCY:C1Z  | 0.45     | 2.16        | 59     | 1     |
| 1:A:69:PRO:HD2   | 2:A:173:RCY:C1C  | 0.45     | 2.40        | 77     | 1     |
| 2:A:173:RCY:C1Q  | 2:A:176:RCY:C1Y  | 0.45     | 2.90        | 77     | 1     |
| 1:A:64:ILE:HG23  | 1:A:66:VAL:N     | 0.45     | 2.23        | 83     | 1     |
| 1:A:70:TRP:CD2   | 1:A:71:GLU:CG    | 0.45     | 3.00        | 86     | 1     |
| 2:A:176:RCY:H1CB | 2:A:187:RCY:H1VB | 0.45     | 1.80        | 93     | 1     |
| 2:A:176:RCY:C1U  | 2:A:187:RCY:H1U  | 0.45     | 2.28        | 96     | 1     |
| 2:A:173:RCY:O1J  | 2:A:176:RCY:H1CB | 0.45     | 2.11        | 6      | 1     |
| 2:A:160:RCY:O1G  | 2:A:160:RCY:N1V  | 0.45     | 2.50        | 52     | 3     |
| 1:A:64:ILE:HA    | 1:A:68:CYS:SG    | 0.45     | 2.51        | 63     | 3     |
| 1:A:70:TRP:HD1   | 2:A:187:RCY:H1MA | 0.45     | 1.71        | 16     | 1     |
| 2:A:138:RCY:H1MA | 2:A:176:RCY:H1LA | 0.45     | 1.86        | 22     | 1     |
| 2:A:176:RCY:N1R  | 2:A:187:RCY:C1M  | 0.45     | 2.77        | 26     | 1     |
| 1:A:70:TRP:O     | 1:A:71:GLU:CG    | 0.45     | 2.65        | 28     | 2     |
| 1:A:71:GLU:CB    | 2:A:173:RCY:C1Y  | 0.45     | 2.70        | 78     | 2     |
| 2:A:160:RCY:H1M  | 2:A:168:RCY:C1Q  | 0.45     | 2.36        | 34     | 1     |
| 1:A:63:ASP:C     | 1:A:68:CYS:SG    | 0.45     | 2.95        | 50     | 1     |
| 1:A:63:ASP:HA    | 2:A:168:RCY:H1L  | 0.45     | 1.88        | 59     | 1     |
| 2:A:173:RCY:O1H  | 2:A:176:RCY:C1M  | 0.45     | 2.63        | 61     | 1     |
| 2:A:160:RCY:H1YA | 2:A:168:RCY:H1ZA | 0.45     | 1.73        | 62     | 1     |
| 2:A:138:RCY:H1U  | 2:A:160:RCY:C1C  | 0.45     | 2.41        | 67     | 1     |
| 2:A:187:RCY:O1G  | 2:A:187:RCY:N1V  | 0.45     | 2.50        | 76     | 2     |
| 1:A:63:ASP:C     | 2:A:168:RCY:C1Z  | 0.45     | 2.73        | 78     | 1     |
| 1:A:63:ASP:O     | 1:A:67:ILE:O     | 0.45     | 2.35        | 26     | 2     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:H1VB | 2:A:173:RCY:C1Q  | 0.45     | 2.42        | 29     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:176:RCY:C1C  | 0.45     | 2.92        | 41     | 1     |
| 2:A:150:RCY:H1CA | 2:A:150:RCY:O1H  | 0.45     | 2.00        | 50     | 1     |
| 1:A:71:GLU:OE2   | 2:A:168:RCY:C1Q  | 0.45     | 2.64        | 70     | 1     |
| 2:A:160:RCY:C1W  | 2:A:168:RCY:H1Y  | 0.45     | 2.41        | 78     | 1     |
| 1:A:75:HIS:CD2   | 1:A:76:CYS:H     | 0.45     | 2.30        | 6      | 1     |
| 2:A:168:RCY:N1R  | 2:A:173:RCY:H1U  | 0.45     | 2.26        | 48     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:168:RCY:C1Y  | 0.45     | 2.84        | 53     | 1     |
| 1:A:78:LEU:HD23  | 2:A:187:RCY:H1ZA | 0.45     | 1.88        | 73     | 1     |
| 1:A:59:GLY:O     | 2:A:150:RCY:C1L  | 0.45     | 2.64        | 85     | 1     |
| 1:A:59:GLY:N     | 2:A:160:RCY:H1S  | 0.45     | 2.26        | 85     | 1     |
| 1:A:64:ILE:O     | 2:A:138:RCY:H1M  | 0.45     | 2.12        | 85     | 1     |
| 2:A:138:RCY:H1MA | 2:A:187:RCY:H1U  | 0.45     | 1.83        | 13     | 1     |
| 1:A:69:PRO:HG3   | 2:A:187:RCY:C1M  | 0.45     | 2.42        | 14     | 1     |
| 1:A:71:GLU:HG3   | 2:A:168:RCY:O1G  | 0.45     | 2.07        | 32     | 1     |
| 1:A:62:THR:HB    | 2:A:160:RCY:O1J  | 0.45     | 2.11        | 46     | 1     |
| 1:A:70:TRP:HB2   | 2:A:168:RCY:H1LA | 0.45     | 1.89        | 70     | 1     |
| 1:A:71:GLU:O     | 1:A:72:ALA:O     | 0.45     | 2.34        | 72     | 1     |
| 2:A:160:RCY:H1U  | 2:A:160:RCY:C1C  | 0.45     | 2.36        | 79     | 1     |
| 1:A:68:CYS:CB    | 2:A:173:RCY:C1Z  | 0.45     | 2.95        | 5      | 1     |
| 2:A:110:RCY:C1W  | 2:A:121:RCY:C1V  | 0.45     | 2.95        | 5      | 1     |
| 1:A:71:GLU:O     | 2:A:176:RCY:H1CA | 0.45     | 2.12        | 20     | 1     |
| 2:A:168:RCY:N1V  | 2:A:187:RCY:H1C  | 0.45     | 2.01        | 40     | 1     |
| 1:A:75:HIS:CD2   | 2:A:173:RCY:O1H  | 0.45     | 2.69        | 42     | 1     |
| 1:A:73:CYS:O     | 1:A:77:GLU:OE1   | 0.45     | 2.34        | 48     | 1     |
| 2:A:168:RCY:C1L  | 2:A:176:RCY:C1V  | 0.45     | 2.95        | 49     | 1     |
| 2:A:138:RCY:O1G  | 2:A:138:RCY:N1V  | 0.45     | 2.50        | 65     | 2     |
| 1:A:72:ALA:CB    | 2:A:173:RCY:H1U  | 0.45     | 2.36        | 80     | 1     |
| 2:A:173:RCY:O1J  | 2:A:176:RCY:H1YB | 0.45     | 2.08        | 82     | 1     |
| 1:A:64:ILE:H     | 2:A:138:RCY:C1V  | 0.45     | 2.12        | 85     | 1     |
| 1:A:72:ALA:N     | 2:A:168:RCY:H1CB | 0.45     | 2.26        | 86     | 1     |
| 2:A:138:RCY:H1YB | 2:A:160:RCY:H1ZB | 0.45     | 1.89        | 87     | 1     |
| 2:A:168:RCY:H1YA | 2:A:187:RCY:C1X  | 0.45     | 2.40        | 90     | 1     |
| 1:A:63:ASP:OD2   | 2:A:160:RCY:C1L  | 0.45     | 2.65        | 92     | 1     |
| 2:A:176:RCY:C1U  | 2:A:187:RCY:O1G  | 0.45     | 2.65        | 97     | 1     |
| 1:A:73:CYS:H     | 2:A:168:RCY:H1U  | 0.45     | 1.71        | 99     | 1     |
| 2:A:168:RCY:H1CA | 2:A:173:RCY:C1S  | 0.45     | 2.42        | 8      | 1     |
| 1:A:72:ALA:C     | 2:A:173:RCY:C1L  | 0.45     | 2.78        | 10     | 1     |
| 1:A:64:ILE:HG13  | 2:A:168:RCY:H1LA | 0.45     | 1.88        | 15     | 1     |
| 2:A:160:RCY:C1Z  | 2:A:173:RCY:C1X  | 0.45     | 2.89        | 37     | 1     |
| 2:A:176:RCY:O1G  | 2:A:176:RCY:N1V  | 0.45     | 2.50        | 38     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:77:GLU:OE2   | 1:A:77:GLU:O     | 0.45     | 2.35        | 49     | 1     |
| 1:A:69:PRO:CG    | 2:A:176:RCY:C1Q  | 0.45     | 2.95        | 59     | 1     |
| 1:A:71:GLU:CD    | 1:A:71:GLU:C     | 0.45     | 2.74        | 60     | 1     |
| 2:A:130:RCY:C1C  | 2:A:160:RCY:H1ZB | 0.45     | 2.34        | 62     | 1     |
| 1:A:71:GLU:OE2   | 2:A:168:RCY:C1S  | 0.45     | 2.65        | 70     | 1     |
| 1:A:66:VAL:O     | 2:A:173:RCY:H1CA | 0.45     | 2.12        | 71     | 1     |
| 2:A:150:RCY:C1Z  | 2:A:168:RCY:H1Y  | 0.45     | 2.42        | 74     | 1     |
| 1:A:67:ILE:HG12  | 2:A:160:RCY:C1X  | 0.45     | 2.42        | 86     | 1     |
| 1:A:78:LEU:CD2   | 2:A:187:RCY:O1J  | 0.45     | 2.64        | 91     | 1     |
| 2:A:150:RCY:H1M  | 2:A:160:RCY:O1G  | 0.45     | 2.12        | 91     | 1     |
| 1:A:71:GLU:OE1   | 2:A:176:RCY:C1C  | 0.45     | 2.63        | 97     | 1     |
| 2:A:110:RCY:H1CA | 2:A:110:RCY:O1H  | 0.45     | 2.11        | 99     | 1     |
| 1:A:64:ILE:CD1   | 2:A:168:RCY:N1V  | 0.44     | 2.79        | 4      | 1     |
| 2:A:168:RCY:N1V  | 2:A:173:RCY:O1H  | 0.44     | 2.49        | 8      | 1     |
| 1:A:65:THR:C     | 1:A:66:VAL:HG22  | 0.44     | 2.32        | 32     | 1     |
| 2:A:160:RCY:C1C  | 2:A:168:RCY:H1YA | 0.44     | 2.42        | 37     | 1     |
| 2:A:168:RCY:H1YA | 2:A:173:RCY:C1V  | 0.44     | 0.31        | 45     | 1     |
| 2:A:168:RCY:O1G  | 2:A:168:RCY:N1V  | 0.44     | 2.50        | 51     | 2     |
| 2:A:121:RCY:O1G  | 2:A:121:RCY:N1V  | 0.44     | 2.50        | 78     | 3     |
| 2:A:160:RCY:H1YA | 2:A:168:RCY:H1Z  | 0.44     | 1.89        | 62     | 1     |
| 1:A:64:ILE:HD11  | 2:A:121:RCY:O1G  | 0.44     | 1.97        | 68     | 1     |
| 2:A:173:RCY:O1H  | 2:A:176:RCY:N1R  | 0.44     | 2.51        | 70     | 1     |
| 1:A:76:CYS:O     | 2:A:160:RCY:C1C  | 0.44     | 2.62        | 73     | 1     |
| 1:A:76:CYS:HA    | 2:A:187:RCY:C1C  | 0.44     | 2.36        | 73     | 1     |
| 1:A:77:GLU:HA    | 2:A:176:RCY:H1MA | 0.44     | 1.89        | 73     | 1     |
| 1:A:64:ILE:HG13  | 1:A:66:VAL:H     | 0.44     | 1.71        | 89     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:176:RCY:N1V  | 0.44     | 2.84        | 94     | 1     |
| 2:A:176:RCY:H1CA | 2:A:187:RCY:C1Z  | 0.44     | 2.42        | 99     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:H1C  | 0.44     | 2.41        | 3      | 1     |
| 2:A:150:RCY:O1J  | 2:A:160:RCY:H1VA | 0.44     | 2.12        | 6      | 1     |
| 1:A:63:ASP:O     | 1:A:64:ILE:O     | 0.44     | 2.35        | 8      | 1     |
| 1:A:75:HIS:O     | 2:A:176:RCY:C1L  | 0.44     | 2.64        | 13     | 1     |
| 1:A:77:GLU:O     | 1:A:78:LEU:CB    | 0.44     | 2.65        | 24     | 4     |
| 1:A:60:CYS:SG    | 2:A:130:RCY:H1ZA | 0.44     | 2.38        | 23     | 1     |
| 1:A:61:GLY:C     | 1:A:62:THR:CG2   | 0.44     | 2.86        | 23     | 1     |
| 1:A:63:ASP:O     | 2:A:160:RCY:H1YB | 0.44     | 2.11        | 47     | 1     |
| 2:A:138:RCY:H1Z  | 2:A:150:RCY:H1S  | 0.44     | 1.87        | 60     | 1     |
| 2:A:176:RCY:O1H  | 2:A:187:RCY:C1Z  | 0.44     | 2.65        | 60     | 1     |
| 1:A:73:CYS:CB    | 2:A:176:RCY:H1LA | 0.44     | 2.36        | 63     | 1     |
| 2:A:168:RCY:H1YB | 2:A:176:RCY:C1Z  | 0.44     | 2.41        | 66     | 1     |
| 1:A:70:TRP:O     | 1:A:73:CYS:N     | 0.44     | 2.47        | 74     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:176:RCY:C1Z  | 2:A:176:RCY:C1Q  | 0.44     | 2.94        | 94     | 1     |
| 1:A:74:ASN:ND2   | 1:A:74:ASN:N     | 0.44     | 2.64        | 100    | 1     |
| 2:A:138:RCY:C1M  | 2:A:150:RCY:H1M  | 0.44     | 2.23        | 1      | 1     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:H1S  | 0.44     | 2.43        | 8      | 1     |
| 1:A:77:GLU:O     | 1:A:78:LEU:C     | 0.44     | 2.56        | 99     | 4     |
| 2:A:138:RCY:N1R  | 2:A:187:RCY:C1Z  | 0.44     | 2.78        | 49     | 1     |
| 1:A:75:HIS:CD2   | 1:A:77:GLU:OE2   | 0.44     | 2.70        | 50     | 1     |
| 1:A:73:CYS:SG    | 2:A:176:RCY:O1H  | 0.44     | 2.76        | 60     | 1     |
| 1:A:65:THR:CG2   | 2:A:150:RCY:C1P  | 0.44     | 2.67        | 72     | 1     |
| 1:A:72:ALA:HB3   | 2:A:173:RCY:C1U  | 0.44     | 2.39        | 80     | 1     |
| 1:A:71:GLU:OE1   | 2:A:176:RCY:H1C  | 0.44     | 2.07        | 97     | 1     |
| 2:A:138:RCY:H1M  | 2:A:150:RCY:H1M  | 0.44     | 1.80        | 1      | 1     |
| 1:A:62:THR:CG2   | 2:A:130:RCY:C1Y  | 0.44     | 2.88        | 9      | 1     |
| 1:A:71:GLU:O     | 2:A:176:RCY:C1C  | 0.44     | 2.64        | 20     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:176:RCY:H1L  | 0.44     | 2.33        | 20     | 1     |
| 1:A:75:HIS:CD2   | 1:A:75:HIS:C     | 0.44     | 2.88        | 42     | 1     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:C1U  | 0.44     | 3.00        | 49     | 1     |
| 1:A:70:TRP:CZ2   | 2:A:121:RCY:H1VA | 0.44     | 2.46        | 49     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:O1H  | 0.44     | 2.63        | 61     | 2     |
| 1:A:62:THR:OG1   | 1:A:66:VAL:CG2   | 0.44     | 2.66        | 54     | 1     |
| 1:A:73:CYS:HB2   | 2:A:176:RCY:C1W  | 0.44     | 2.33        | 58     | 1     |
| 1:A:66:VAL:HG21  | 2:A:150:RCY:C1L  | 0.44     | 2.43        | 61     | 1     |
| 2:A:173:RCY:H1C  | 2:A:187:RCY:C1S  | 0.44     | 2.37        | 76     | 1     |
| 1:A:66:VAL:HG11  | 2:A:121:RCY:C1M  | 0.44     | 2.39        | 83     | 1     |
| 2:A:150:RCY:H1MA | 2:A:168:RCY:O1H  | 0.44     | 2.12        | 85     | 1     |
| 1:A:70:TRP:CD1   | 2:A:173:RCY:H1ZA | 0.44     | 2.45        | 94     | 1     |
| 2:A:130:RCY:H1VA | 2:A:187:RCY:H1VA | 0.44     | 1.85        | 94     | 1     |
| 2:A:138:RCY:C1P  | 2:A:150:RCY:H1VA | 0.44     | 2.43        | 94     | 1     |
| 1:A:76:CYS:HB3   | 2:A:173:RCY:O1H  | 0.44     | 2.11        | 97     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:176:RCY:H1YA | 0.44     | 2.43        | 14     | 1     |
| 1:A:65:THR:CG2   | 2:A:168:RCY:O1J  | 0.44     | 2.57        | 24     | 1     |
| 2:A:168:RCY:H1VA | 2:A:187:RCY:H1Y  | 0.44     | 1.88        | 53     | 1     |
| 2:A:173:RCY:N1V  | 2:A:176:RCY:C1V  | 0.44     | 2.81        | 63     | 1     |
| 2:A:138:RCY:H1V  | 2:A:187:RCY:H1Y  | 0.44     | 1.89        | 71     | 1     |
| 2:A:150:RCY:C1Y  | 2:A:187:RCY:O1G  | 0.44     | 2.66        | 74     | 1     |
| 2:A:176:RCY:H1CA | 2:A:187:RCY:N1R  | 0.44     | 2.27        | 86     | 1     |
| 2:A:168:RCY:O1J  | 2:A:173:RCY:C1M  | 0.44     | 2.42        | 91     | 1     |
| 2:A:176:RCY:O1J  | 2:A:187:RCY:C1L  | 0.44     | 2.56        | 96     | 1     |
| 2:A:168:RCY:H1ZB | 2:A:176:RCY:O1J  | 0.44     | 1.93        | 11     | 1     |
| 1:A:74:ASN:O     | 1:A:75:HIS:C     | 0.44     | 2.56        | 90     | 6     |
| 1:A:72:ALA:HA    | 2:A:173:RCY:C1L  | 0.44     | 2.43        | 21     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:70:TRP:HE1   | 1:A:75:HIS:C     | 0.44     | 2.15        | 26     | 1     |
| 1:A:67:ILE:CG2   | 2:A:130:RCY:C1Y  | 0.44     | 2.95        | 30     | 1     |
| 2:A:168:RCY:H1M  | 2:A:187:RCY:H1CA | 0.44     | 1.89        | 64     | 1     |
| 2:A:168:RCY:H1VB | 2:A:187:RCY:H1ZB | 0.44     | 1.89        | 64     | 1     |
| 1:A:60:CYS:SG    | 1:A:66:VAL:HG21  | 0.44     | 2.52        | 68     | 1     |
| 1:A:73:CYS:SG    | 1:A:74:ASN:O     | 0.44     | 2.76        | 90     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:150:RCY:C1C  | 0.44     | 2.98        | 93     | 1     |
| 2:A:138:RCY:C1P  | 2:A:138:RCY:H1CB | 0.44     | 2.42        | 7      | 1     |
| 1:A:69:PRO:CA    | 2:A:173:RCY:O1G  | 0.44     | 2.50        | 10     | 1     |
| 1:A:77:GLU:O     | 1:A:78:LEU:HD22  | 0.44     | 2.13        | 16     | 1     |
| 2:A:176:RCY:O1G  | 2:A:187:RCY:C1W  | 0.44     | 2.62        | 26     | 1     |
| 1:A:68:CYS:SG    | 1:A:70:TRP:N     | 0.44     | 2.90        | 33     | 1     |
| 2:A:168:RCY:H1CA | 2:A:173:RCY:O1J  | 0.44     | 2.13        | 53     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:110:RCY:H1Z  | 0.44     | 2.48        | 59     | 1     |
| 1:A:59:GLY:CA    | 2:A:150:RCY:H1L  | 0.44     | 2.42        | 85     | 1     |
| 2:A:168:RCY:C1U  | 2:A:187:RCY:H1VA | 0.44     | 2.38        | 90     | 1     |
| 1:A:61:GLY:O     | 1:A:64:ILE:CG2   | 0.44     | 2.60        | 94     | 1     |
| 1:A:71:GLU:OE2   | 2:A:130:RCY:N1R  | 0.44     | 2.49        | 94     | 1     |
| 1:A:60:CYS:CA    | 2:A:138:RCY:H1V  | 0.44     | 2.39        | 7      | 1     |
| 1:A:72:ALA:CA    | 2:A:173:RCY:C1L  | 0.44     | 2.93        | 10     | 1     |
| 1:A:69:PRO:HG3   | 2:A:176:RCY:C1U  | 0.44     | 2.33        | 31     | 1     |
| 1:A:70:TRP:CD1   | 2:A:176:RCY:C1L  | 0.44     | 3.00        | 32     | 1     |
| 1:A:72:ALA:HB3   | 1:A:75:HIS:CD2   | 0.44     | 2.48        | 33     | 1     |
| 1:A:65:THR:HB    | 2:A:160:RCY:C1L  | 0.44     | 2.43        | 35     | 1     |
| 1:A:70:TRP:CD1   | 1:A:71:GLU:N     | 0.44     | 2.86        | 35     | 1     |
| 2:A:173:RCY:N1V  | 2:A:173:RCY:O1G  | 0.44     | 2.50        | 36     | 1     |
| 1:A:71:GLU:OE2   | 1:A:71:GLU:O     | 0.44     | 2.35        | 40     | 1     |
| 1:A:73:CYS:CA    | 2:A:176:RCY:C1C  | 0.44     | 2.82        | 52     | 1     |
| 1:A:71:GLU:OE1   | 1:A:71:GLU:CA    | 0.44     | 2.66        | 74     | 1     |
| 2:A:168:RCY:O1H  | 2:A:173:RCY:O1J  | 0.44     | 2.35        | 82     | 1     |
| 1:A:71:GLU:OE2   | 2:A:173:RCY:H1C  | 0.44     | 1.98        | 89     | 1     |
| 1:A:73:CYS:O     | 1:A:75:HIS:NE2   | 0.44     | 2.50        | 90     | 1     |
| 1:A:69:PRO:CB    | 2:A:173:RCY:H1CA | 0.44     | 2.42        | 92     | 1     |
| 1:A:71:GLU:HG3   | 2:A:168:RCY:O1H  | 0.44     | 2.08        | 93     | 1     |
| 2:A:160:RCY:C1Y  | 2:A:176:RCY:C1Z  | 0.44     | 2.95        | 6      | 1     |
| 2:A:150:RCY:H1ZA | 2:A:160:RCY:N1R  | 0.44     | 2.27        | 16     | 1     |
| 2:A:168:RCY:C1V  | 2:A:176:RCY:C1P  | 0.44     | 2.92        | 20     | 1     |
| 1:A:62:THR:HG22  | 1:A:65:THR:OG1   | 0.44     | 2.13        | 46     | 1     |
| 1:A:70:TRP:NE1   | 2:A:173:RCY:O1J  | 0.44     | 2.51        | 50     | 1     |
| 2:A:173:RCY:C1X  | 2:A:187:RCY:O1J  | 0.44     | 2.64        | 55     | 1     |
| 2:A:168:RCY:H1CB | 2:A:173:RCY:H1V  | 0.44     | 1.82        | 85     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:70:TRP:N     | 2:A:173:RCY:C1X  | 0.44     | 2.45        | 92     | 1     |
| 1:A:74:ASN:O     | 1:A:74:ASN:OD1   | 0.43     | 2.35        | 14     | 2     |
| 2:A:138:RCY:H1Y  | 2:A:160:RCY:O1G  | 0.43     | 2.13        | 31     | 1     |
| 1:A:60:CYS:HB3   | 2:A:168:RCY:C1W  | 0.43     | 2.42        | 52     | 1     |
| 2:A:173:RCY:O1J  | 2:A:176:RCY:C1U  | 0.43     | 2.65        | 62     | 1     |
| 1:A:70:TRP:O     | 2:A:176:RCY:C1Y  | 0.43     | 2.66        | 70     | 1     |
| 1:A:76:CYS:O     | 2:A:187:RCY:C1Z  | 0.43     | 2.66        | 73     | 1     |
| 1:A:69:PRO:CG    | 2:A:150:RCY:N1V  | 0.43     | 2.80        | 85     | 1     |
| 1:A:65:THR:OG1   | 1:A:66:VAL:N     | 0.43     | 2.51        | 96     | 1     |
| 1:A:70:TRP:CG    | 2:A:176:RCY:H1ZA | 0.43     | 2.47        | 4      | 1     |
| 2:A:168:RCY:N1R  | 2:A:173:RCY:H1YA | 0.43     | 2.28        | 14     | 1     |
| 2:A:173:RCY:H1LA | 2:A:176:RCY:N1R  | 0.43     | 2.27        | 20     | 1     |
| 1:A:65:THR:HA    | 2:A:168:RCY:H1L  | 0.43     | 1.90        | 26     | 1     |
| 2:A:176:RCY:H1V  | 2:A:187:RCY:C1V  | 0.43     | 0.97        | 33     | 1     |
| 1:A:67:ILE:CA    | 2:A:168:RCY:C1Q  | 0.43     | 2.94        | 83     | 2     |
| 2:A:150:RCY:C1V  | 2:A:187:RCY:C1M  | 0.43     | 2.96        | 64     | 1     |
| 2:A:138:RCY:N1V  | 2:A:150:RCY:H1YA | 0.43     | 2.26        | 77     | 1     |
| 1:A:69:PRO:HG3   | 2:A:168:RCY:H1MA | 0.43     | 1.90        | 81     | 1     |
| 1:A:68:CYS:SG    | 2:A:150:RCY:H1V  | 0.43     | 2.53        | 85     | 1     |
| 1:A:65:THR:HG23  | 1:A:66:VAL:H     | 0.43     | 1.73        | 93     | 1     |
| 2:A:173:RCY:H1CB | 2:A:176:RCY:H1S  | 0.43     | 1.88        | 96     | 1     |
| 2:A:173:RCY:N1V  | 2:A:176:RCY:O1J  | 0.43     | 2.51        | 3      | 1     |
| 2:A:168:RCY:H1LA | 2:A:173:RCY:H1Y  | 0.43     | 1.88        | 5      | 1     |
| 1:A:70:TRP:CE3   | 2:A:176:RCY:H1V  | 0.43     | 2.48        | 6      | 1     |
| 2:A:168:RCY:C1Z  | 2:A:176:RCY:C1Y  | 0.43     | 2.96        | 14     | 1     |
| 2:A:173:RCY:O1G  | 2:A:173:RCY:N1V  | 0.43     | 2.50        | 14     | 2     |
| 2:A:138:RCY:H1CB | 2:A:160:RCY:C1Y  | 0.43     | 2.16        | 27     | 1     |
| 1:A:70:TRP:CA    | 2:A:168:RCY:H1LA | 0.43     | 2.40        | 29     | 1     |
| 2:A:138:RCY:H1Y  | 2:A:176:RCY:N1R  | 0.43     | 2.28        | 48     | 1     |
| 1:A:70:TRP:CZ2   | 1:A:71:GLU:OE2   | 0.43     | 2.71        | 86     | 1     |
| 1:A:62:THR:HB    | 2:A:168:RCY:H1CB | 0.43     | 1.90        | 97     | 1     |
| 2:A:138:RCY:H1U  | 2:A:150:RCY:O1H  | 0.43     | 2.13        | 98     | 1     |
| 2:A:150:RCY:H1Z  | 2:A:176:RCY:C1Q  | 0.43     | 2.44        | 3      | 1     |
| 2:A:173:RCY:H1YA | 2:A:187:RCY:C1M  | 0.43     | 2.43        | 7      | 1     |
| 2:A:160:RCY:O1H  | 2:A:168:RCY:H1YA | 0.43     | 2.14        | 14     | 1     |
| 1:A:70:TRP:HB2   | 2:A:176:RCY:C1W  | 0.43     | 2.34        | 18     | 1     |
| 1:A:66:VAL:O     | 1:A:71:GLU:OE2   | 0.43     | 2.36        | 45     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:187:RCY:C1M  | 0.43     | 2.81        | 97     | 1     |
| 1:A:64:ILE:CG2   | 2:A:150:RCY:C1V  | 0.43     | 2.43        | 16     | 1     |
| 1:A:70:TRP:CD2   | 1:A:70:TRP:N     | 0.43     | 2.86        | 80     | 2     |
| 2:A:138:RCY:H1YB | 2:A:173:RCY:C1M  | 0.43     | 2.42        | 32     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:138:RCY:H1CB | 2:A:187:RCY:C1V  | 0.43     | 2.43        | 39     | 1     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:H1YA | 0.43     | 2.43        | 49     | 1     |
| 1:A:63:ASP:O     | 1:A:63:ASP:OD1   | 0.43     | 2.37        | 41     | 4     |
| 1:A:60:CYS:HB2   | 2:A:160:RCY:H1LA | 0.43     | 1.48        | 35     | 2     |
| 2:A:160:RCY:H1M  | 2:A:168:RCY:C1Y  | 0.43     | 2.42        | 9      | 1     |
| 1:A:63:ASP:OD2   | 1:A:70:TRP:CZ2   | 0.43     | 2.72        | 12     | 1     |
| 1:A:62:THR:O     | 1:A:62:THR:CG2   | 0.43     | 2.64        | 14     | 1     |
| 1:A:70:TRP:O     | 1:A:71:GLU:CD    | 0.43     | 2.57        | 21     | 1     |
| 2:A:150:RCY:N1V  | 2:A:160:RCY:C1Z  | 0.43     | 2.81        | 29     | 1     |
| 2:A:176:RCY:H1Y  | 2:A:187:RCY:H1L  | 0.43     | 1.88        | 32     | 1     |
| 2:A:150:RCY:H1ZB | 2:A:187:RCY:H1LA | 0.43     | 1.85        | 36     | 1     |
| 2:A:168:RCY:C1V  | 2:A:173:RCY:H1VB | 0.43     | 2.42        | 45     | 1     |
| 2:A:160:RCY:H1YA | 2:A:168:RCY:H1CB | 0.43     | 0.50        | 47     | 1     |
| 1:A:63:ASP:OD1   | 1:A:63:ASP:O     | 0.43     | 2.37        | 49     | 2     |
| 1:A:64:ILE:HD12  | 2:A:168:RCY:H1YB | 0.43     | 1.89        | 95     | 1     |
| 2:A:150:RCY:H1M  | 2:A:187:RCY:O1G  | 0.43     | 2.13        | 8      | 1     |
| 2:A:176:RCY:H1V  | 2:A:187:RCY:H1L  | 0.43     | 1.86        | 15     | 1     |
| 2:A:110:RCY:N1V  | 2:A:110:RCY:O1G  | 0.43     | 2.52        | 31     | 1     |
| 2:A:150:RCY:H1VA | 2:A:187:RCY:C1Z  | 0.43     | 2.44        | 32     | 1     |
| 2:A:130:RCY:O1G  | 2:A:130:RCY:N1V  | 0.43     | 2.51        | 78     | 3     |
| 2:A:173:RCY:H1MA | 2:A:176:RCY:C1Z  | 0.43     | 2.44        | 41     | 1     |
| 1:A:59:GLY:CA    | 2:A:160:RCY:H1ZB | 0.43     | 2.29        | 49     | 1     |
| 2:A:160:RCY:H1VB | 2:A:168:RCY:C1Q  | 0.43     | 2.44        | 49     | 1     |
| 1:A:78:LEU:CD1   | 1:A:78:LEU:C     | 0.43     | 2.87        | 69     | 1     |
| 1:A:73:CYS:CB    | 2:A:176:RCY:O1G  | 0.43     | 2.09        | 70     | 1     |
| 1:A:74:ASN:C     | 1:A:74:ASN:ND2   | 0.43     | 2.71        | 75     | 1     |
| 1:A:74:ASN:O     | 1:A:74:ASN:CG    | 0.43     | 2.57        | 82     | 1     |
| 2:A:138:RCY:C1Q  | 2:A:150:RCY:C1Z  | 0.43     | 2.78        | 82     | 1     |
| 1:A:64:ILE:HG23  | 2:A:168:RCY:H1ZA | 0.43     | 1.74        | 83     | 1     |
| 1:A:60:CYS:C     | 2:A:168:RCY:C1U  | 0.43     | 2.58        | 95     | 1     |
| 2:A:173:RCY:O1J  | 2:A:176:RCY:C1C  | 0.43     | 2.59        | 6      | 1     |
| 1:A:70:TRP:O     | 1:A:71:GLU:OE2   | 0.43     | 2.35        | 7      | 2     |
| 1:A:65:THR:O     | 2:A:168:RCY:H1VB | 0.43     | 2.11        | 17     | 1     |
| 1:A:69:PRO:HA    | 2:A:173:RCY:C1S  | 0.43     | 2.43        | 24     | 1     |
| 2:A:130:RCY:N1R  | 2:A:130:RCY:C1M  | 0.43     | 2.68        | 25     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:187:RCY:C1X  | 0.43     | 2.76        | 64     | 1     |
| 2:A:160:RCY:H1Z  | 2:A:168:RCY:H1CA | 0.43     | 1.60        | 69     | 1     |
| 1:A:68:CYS:O     | 1:A:71:GLU:OE1   | 0.43     | 2.37        | 72     | 1     |
| 2:A:168:RCY:C1Z  | 2:A:187:RCY:C1V  | 0.43     | 2.96        | 82     | 1     |
| 1:A:59:GLY:HA3   | 2:A:150:RCY:H1L  | 0.43     | 1.88        | 85     | 1     |
| 1:A:65:THR:HB    | 2:A:168:RCY:C1Q  | 0.43     | 2.43        | 87     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:150:RCY:C1C  | 2:A:173:RCY:C1C  | 0.43     | 2.67        | 89     | 1     |
| 1:A:67:ILE:HG23  | 2:A:176:RCY:C1M  | 0.43     | 2.44        | 22     | 1     |
| 2:A:160:RCY:O1H  | 2:A:168:RCY:C1V  | 0.43     | 2.67        | 44     | 1     |
| 1:A:60:CYS:O     | 1:A:61:GLY:O     | 0.43     | 2.37        | 50     | 1     |
| 1:A:70:TRP:CB    | 2:A:187:RCY:H1Z  | 0.43     | 2.14        | 51     | 1     |
| 2:A:173:RCY:C1Q  | 2:A:187:RCY:C1Y  | 0.43     | 2.97        | 56     | 1     |
| 1:A:62:THR:OG1   | 1:A:65:THR:OG1   | 0.43     | 2.35        | 87     | 3     |
| 2:A:160:RCY:C1Z  | 2:A:168:RCY:N1V  | 0.43     | 2.81        | 69     | 1     |
| 2:A:173:RCY:C1Q  | 2:A:176:RCY:C1Q  | 0.43     | 2.95        | 70     | 1     |
| 1:A:67:ILE:C     | 2:A:173:RCY:C1M  | 0.43     | 2.62        | 80     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:176:RCY:C1M  | 0.43     | 2.95        | 80     | 1     |
| 1:A:59:GLY:O     | 2:A:150:RCY:O1G  | 0.43     | 2.36        | 85     | 1     |
| 1:A:60:CYS:C     | 1:A:62:THR:N     | 0.43     | 2.71        | 2      | 1     |
| 2:A:150:RCY:O1J  | 2:A:176:RCY:H1S  | 0.43     | 2.14        | 3      | 1     |
| 1:A:71:GLU:HA    | 2:A:173:RCY:C1M  | 0.43     | 2.43        | 11     | 1     |
| 2:A:160:RCY:H1Y  | 2:A:176:RCY:C1Y  | 0.43     | 2.31        | 11     | 1     |
| 2:A:168:RCY:O1J  | 2:A:176:RCY:H1ZB | 0.43     | 2.03        | 17     | 1     |
| 2:A:150:RCY:H1MA | 2:A:160:RCY:H1Y  | 0.43     | 1.90        | 21     | 1     |
| 1:A:67:ILE:HG21  | 2:A:150:RCY:H1VB | 0.43     | 1.90        | 31     | 1     |
| 1:A:76:CYS:HB3   | 2:A:173:RCY:N1R  | 0.43     | 2.28        | 38     | 1     |
| 1:A:60:CYS:O     | 1:A:64:ILE:HG22  | 0.43     | 2.14        | 44     | 1     |
| 1:A:74:ASN:O     | 2:A:176:RCY:C1Q  | 0.43     | 2.66        | 44     | 1     |
| 1:A:62:THR:O     | 1:A:67:ILE:O     | 0.43     | 2.36        | 51     | 1     |
| 2:A:176:RCY:C1P  | 2:A:176:RCY:H1CA | 0.43     | 2.43        | 55     | 1     |
| 1:A:78:LEU:HD12  | 2:A:176:RCY:H1U  | 0.43     | 1.79        | 56     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:150:RCY:H1S  | 0.43     | 2.42        | 60     | 1     |
| 2:A:187:RCY:C1Q  | 2:A:187:RCY:H1VB | 0.43     | 2.44        | 75     | 1     |
| 1:A:70:TRP:CB    | 2:A:176:RCY:H1YB | 0.43     | 2.35        | 80     | 1     |
| 2:A:138:RCY:C1Q  | 2:A:150:RCY:O1J  | 0.43     | 2.66        | 81     | 1     |
| 2:A:176:RCY:C1P  | 2:A:187:RCY:O1G  | 0.43     | 2.59        | 88     | 1     |
| 2:A:138:RCY:C1M  | 2:A:187:RCY:C1Z  | 0.42     | 2.94        | 3      | 1     |
| 1:A:73:CYS:HB2   | 2:A:173:RCY:H1LA | 0.42     | 1.66        | 46     | 2     |
| 1:A:72:ALA:CA    | 2:A:173:RCY:H1S  | 0.42     | 2.42        | 21     | 1     |
| 2:A:168:RCY:O1H  | 2:A:173:RCY:H1Z  | 0.42     | 2.08        | 26     | 1     |
| 1:A:76:CYS:C     | 1:A:78:LEU:H     | 0.42     | 2.17        | 45     | 4     |
| 1:A:70:TRP:CE2   | 1:A:71:GLU:CD    | 0.42     | 2.92        | 86     | 1     |
| 2:A:160:RCY:H1Y  | 2:A:176:RCY:C1Z  | 0.42     | 2.44        | 6      | 1     |
| 1:A:62:THR:N     | 2:A:160:RCY:O1G  | 0.42     | 2.51        | 19     | 1     |
| 1:A:69:PRO:HA    | 2:A:173:RCY:H1L  | 0.42     | 1.89        | 24     | 1     |
| 1:A:68:CYS:SG    | 1:A:69:PRO:N     | 0.42     | 2.91        | 33     | 2     |
| 2:A:150:RCY:C1Y  | 2:A:176:RCY:C1Y  | 0.42     | 2.76        | 37     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:176:RCY:O1G  | 2:A:187:RCY:C1Q  | 0.42     | 2.66        | 38     | 1     |
| 2:A:168:RCY:H1M  | 2:A:173:RCY:C1C  | 0.42     | 2.45        | 45     | 1     |
| 2:A:160:RCY:H1U  | 2:A:168:RCY:C1V  | 0.42     | 2.39        | 48     | 1     |
| 2:A:176:RCY:C1P  | 2:A:176:RCY:C1V  | 0.42     | 2.95        | 52     | 1     |
| 1:A:69:PRO:HB3   | 2:A:173:RCY:C1M  | 0.42     | 2.43        | 57     | 1     |
| 2:A:173:RCY:C1P  | 2:A:176:RCY:O1G  | 0.42     | 2.67        | 59     | 1     |
| 1:A:63:ASP:CG    | 2:A:160:RCY:C1V  | 0.42     | 2.86        | 63     | 1     |
| 1:A:64:ILE:HD11  | 2:A:121:RCY:C1P  | 0.42     | 2.39        | 68     | 1     |
| 2:A:138:RCY:C1L  | 2:A:150:RCY:O1J  | 0.42     | 2.66        | 81     | 1     |
| 1:A:62:THR:HG22  | 2:A:160:RCY:O1G  | 0.42     | 1.95        | 82     | 1     |
| 1:A:69:PRO:HD3   | 2:A:150:RCY:H1VA | 0.42     | 1.90        | 85     | 1     |
| 2:A:150:RCY:H1VA | 2:A:187:RCY:C1S  | 0.42     | 2.39        | 87     | 1     |
| 1:A:64:ILE:HG12  | 1:A:68:CYS:N     | 0.42     | 2.29        | 89     | 1     |
| 1:A:71:GLU:CD    | 2:A:173:RCY:C1Q  | 0.42     | 2.83        | 89     | 1     |
| 1:A:75:HIS:C     | 2:A:173:RCY:H1CB | 0.42     | 2.34        | 91     | 1     |
| 1:A:63:ASP:OD1   | 2:A:160:RCY:H1L  | 0.42     | 2.13        | 92     | 1     |
| 1:A:70:TRP:CZ3   | 2:A:168:RCY:H1ZB | 0.42     | 2.33        | 98     | 1     |
| 1:A:71:GLU:OE1   | 2:A:168:RCY:C1P  | 0.42     | 2.66        | 99     | 1     |
| 2:A:138:RCY:C1L  | 2:A:160:RCY:H1MA | 0.42     | 2.45        | 18     | 1     |
| 1:A:71:GLU:OE2   | 2:A:176:RCY:C1U  | 0.42     | 2.68        | 37     | 1     |
| 1:A:76:CYS:N     | 2:A:176:RCY:C1Z  | 0.42     | 2.79        | 44     | 1     |
| 1:A:59:GLY:C     | 2:A:160:RCY:H1S  | 0.42     | 2.32        | 85     | 2     |
| 1:A:77:GLU:C     | 1:A:77:GLU:OE1   | 0.42     | 2.57        | 45     | 1     |
| 1:A:66:VAL:CA    | 2:A:168:RCY:O1H  | 0.42     | 2.67        | 51     | 1     |
| 1:A:66:VAL:HG13  | 2:A:121:RCY:H1VA | 0.42     | 1.80        | 83     | 1     |
| 1:A:75:HIS:C     | 2:A:173:RCY:C1Z  | 0.42     | 2.83        | 88     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:176:RCY:C1X  | 0.42     | 2.95        | 90     | 1     |
| 1:A:71:GLU:O     | 1:A:71:GLU:HG3   | 0.42     | 2.14        | 97     | 1     |
| 1:A:74:ASN:CA    | 2:A:176:RCY:C1V  | 0.42     | 2.91        | 100    | 1     |
| 1:A:77:GLU:CD    | 1:A:77:GLU:N     | 0.42     | 2.72        | 91     | 2     |
| 1:A:64:ILE:HG12  | 1:A:65:THR:N     | 0.42     | 2.30        | 49     | 2     |
| 2:A:168:RCY:O1H  | 2:A:176:RCY:C1Y  | 0.42     | 2.68        | 17     | 1     |
| 2:A:173:RCY:C1S  | 2:A:176:RCY:H1CB | 0.42     | 2.44        | 19     | 1     |
| 2:A:173:RCY:C1Y  | 2:A:176:RCY:H1L  | 0.42     | 2.43        | 26     | 1     |
| 1:A:64:ILE:HB    | 1:A:68:CYS:SG    | 0.42     | 2.54        | 27     | 1     |
| 1:A:70:TRP:C     | 1:A:72:ALA:H     | 0.42     | 2.17        | 44     | 2     |
| 2:A:176:RCY:H1CB | 2:A:176:RCY:O1G  | 0.42     | 2.06        | 44     | 1     |
| 1:A:70:TRP:HH2   | 2:A:160:RCY:O1J  | 0.42     | 1.98        | 48     | 1     |
| 1:A:60:CYS:SG    | 2:A:130:RCY:H1YA | 0.42     | 2.54        | 66     | 1     |
| 2:A:130:RCY:C1U  | 2:A:160:RCY:H1Y  | 0.42     | 2.02        | 67     | 1     |
| 2:A:160:RCY:N1V  | 2:A:168:RCY:H1ZA | 0.42     | 2.29        | 76     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:N1V  | 2:A:176:RCY:H1V  | 0.42     | 2.28        | 84     | 1     |
| 1:A:63:ASP:CG    | 2:A:150:RCY:O1G  | 0.42     | 2.54        | 85     | 1     |
| 1:A:59:GLY:O     | 1:A:62:THR:CG2   | 0.42     | 2.67        | 88     | 1     |
| 2:A:168:RCY:C1M  | 2:A:187:RCY:H1L  | 0.42     | 2.43        | 100    | 1     |
| 1:A:70:TRP:N     | 2:A:168:RCY:H1VB | 0.42     | 2.30        | 3      | 1     |
| 1:A:70:TRP:HB2   | 2:A:173:RCY:C1X  | 0.42     | 2.28        | 4      | 1     |
| 1:A:77:GLU:CG    | 2:A:176:RCY:H1VA | 0.42     | 2.39        | 7      | 1     |
| 1:A:69:PRO:HD3   | 2:A:168:RCY:C1Q  | 0.42     | 2.45        | 8      | 2     |
| 2:A:176:RCY:H1YA | 2:A:187:RCY:H1MA | 0.42     | 1.90        | 19     | 1     |
| 1:A:77:GLU:N     | 2:A:176:RCY:C1P  | 0.42     | 2.45        | 31     | 1     |
| 1:A:71:GLU:N     | 2:A:168:RCY:H1ZB | 0.42     | 2.28        | 36     | 1     |
| 2:A:138:RCY:H1Y  | 2:A:187:RCY:H1L  | 0.42     | 1.89        | 42     | 1     |
| 1:A:69:PRO:CB    | 2:A:176:RCY:O1H  | 0.42     | 2.68        | 59     | 1     |
| 2:A:138:RCY:O1J  | 2:A:160:RCY:H1LA | 0.42     | 2.15        | 73     | 1     |
| 1:A:68:CYS:SG    | 2:A:150:RCY:H1YB | 0.42     | 2.51        | 85     | 1     |
| 2:A:168:RCY:N1R  | 2:A:176:RCY:H1ZA | 0.42     | 2.30        | 98     | 1     |
| 2:A:110:RCY:O1G  | 2:A:110:RCY:H1MA | 0.42     | 2.14        | 99     | 1     |
| 1:A:63:ASP:OD2   | 1:A:70:TRP:NE1   | 0.42     | 2.53        | 12     | 1     |
| 1:A:69:PRO:O     | 1:A:74:ASN:CA    | 0.42     | 2.67        | 59     | 2     |
| 2:A:168:RCY:O1H  | 2:A:173:RCY:H1U  | 0.42     | 2.14        | 48     | 1     |
| 1:A:64:ILE:CG2   | 2:A:160:RCY:C1Y  | 0.42     | 2.38        | 49     | 1     |
| 1:A:69:PRO:HG3   | 2:A:173:RCY:O1J  | 0.42     | 2.14        | 55     | 1     |
| 2:A:173:RCY:H1V  | 2:A:187:RCY:H1U  | 0.42     | 1.91        | 57     | 1     |
| 1:A:65:THR:HG23  | 2:A:160:RCY:H1CA | 0.42     | 1.91        | 70     | 1     |
| 1:A:67:ILE:O     | 2:A:173:RCY:H1YA | 0.42     | 2.14        | 80     | 1     |
| 2:A:138:RCY:H1YA | 2:A:187:RCY:C1V  | 0.42     | 2.44        | 84     | 1     |
| 2:A:173:RCY:C1L  | 2:A:187:RCY:H1VA | 0.42     | 2.44        | 89     | 1     |
| 2:A:173:RCY:H1YA | 2:A:176:RCY:C1Z  | 0.42     | 2.41        | 99     | 1     |
| 2:A:160:RCY:C1W  | 2:A:168:RCY:N1R  | 0.42     | 2.83        | 3      | 1     |
| 1:A:70:TRP:H     | 2:A:173:RCY:C1M  | 0.42     | 2.28        | 4      | 1     |
| 1:A:69:PRO:O     | 2:A:187:RCY:C1C  | 0.42     | 2.65        | 7      | 1     |
| 2:A:168:RCY:C1M  | 2:A:176:RCY:H1YA | 0.42     | 2.42        | 14     | 1     |
| 2:A:138:RCY:C1L  | 2:A:160:RCY:C1M  | 0.42     | 2.92        | 18     | 1     |
| 1:A:61:GLY:CA    | 2:A:168:RCY:N1R  | 0.42     | 2.82        | 24     | 1     |
| 1:A:70:TRP:C     | 2:A:168:RCY:C1S  | 0.42     | 2.83        | 28     | 1     |
| 1:A:78:LEU:HD21  | 2:A:138:RCY:O1J  | 0.42     | 1.96        | 40     | 1     |
| 1:A:64:ILE:HG22  | 2:A:168:RCY:C1C  | 0.42     | 2.36        | 54     | 1     |
| 2:A:160:RCY:H1YB | 2:A:168:RCY:O1J  | 0.42     | 2.04        | 59     | 1     |
| 1:A:65:THR:O     | 2:A:173:RCY:H1CB | 0.42     | 1.94        | 71     | 1     |
| 1:A:67:ILE:CD1   | 2:A:168:RCY:O1G  | 0.42     | 2.64        | 76     | 1     |
| 1:A:70:TRP:O     | 2:A:173:RCY:H1CB | 0.42     | 1.84        | 82     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:70:TRP:CE3   | 2:A:150:RCY:H1C  | 0.42     | 2.49        | 93     | 1     |
| 2:A:160:RCY:H1U  | 2:A:168:RCY:H1VA | 0.42     | 1.09        | 100    | 1     |
| 1:A:62:THR:HA    | 2:A:168:RCY:C1C  | 0.42     | 2.44        | 24     | 1     |
| 1:A:72:ALA:O     | 1:A:73:CYS:O     | 0.42     | 2.38        | 31     | 1     |
| 1:A:60:CYS:SG    | 1:A:62:THR:N     | 0.42     | 2.89        | 35     | 1     |
| 1:A:60:CYS:O     | 1:A:62:THR:OG1   | 0.42     | 2.38        | 43     | 1     |
| 2:A:150:RCY:O1G  | 2:A:150:RCY:H1MA | 0.42     | 2.14        | 50     | 1     |
| 2:A:160:RCY:C1L  | 2:A:168:RCY:C1V  | 0.42     | 2.98        | 60     | 1     |
| 2:A:187:RCY:C1P  | 2:A:187:RCY:H1ZB | 0.42     | 2.45        | 78     | 1     |
| 2:A:130:RCY:H1ZA | 2:A:160:RCY:H1YA | 0.42     | 1.91        | 84     | 1     |
| 2:A:173:RCY:O1G  | 2:A:187:RCY:C1C  | 0.42     | 2.64        | 99     | 1     |
| 1:A:69:PRO:C     | 2:A:173:RCY:H1L  | 0.42     | 2.22        | 6      | 1     |
| 2:A:176:RCY:O1G  | 2:A:187:RCY:H1ZA | 0.42     | 2.15        | 26     | 1     |
| 1:A:64:ILE:HG22  | 1:A:65:THR:H     | 0.42     | 1.67        | 38     | 1     |
| 2:A:150:RCY:H1ZB | 2:A:187:RCY:C1C  | 0.42     | 2.43        | 50     | 1     |
| 1:A:68:CYS:HB3   | 1:A:70:TRP:CE2   | 0.42     | 2.49        | 61     | 1     |
| 2:A:168:RCY:H1MA | 2:A:187:RCY:H1MA | 0.42     | 0.83        | 66     | 1     |
| 1:A:70:TRP:CA    | 2:A:173:RCY:H1YB | 0.42     | 2.30        | 85     | 1     |
| 2:A:168:RCY:C1C  | 2:A:187:RCY:C1Y  | 0.42     | 2.93        | 87     | 1     |
| 1:A:68:CYS:O     | 1:A:71:GLU:O     | 0.42     | 2.37        | 97     | 1     |
| 2:A:168:RCY:H1Y  | 2:A:173:RCY:H1LA | 0.42     | 1.61        | 99     | 1     |
| 2:A:173:RCY:H1VA | 2:A:176:RCY:H1ZB | 0.42     | 1.84        | 4      | 1     |
| 1:A:75:HIS:CA    | 2:A:176:RCY:O1H  | 0.42     | 2.68        | 10     | 1     |
| 2:A:138:RCY:C1X  | 2:A:173:RCY:H1ZB | 0.42     | 2.45        | 15     | 1     |
| 1:A:65:THR:OG1   | 2:A:150:RCY:H1YB | 0.42     | 2.15        | 31     | 1     |
| 1:A:70:TRP:HZ3   | 2:A:168:RCY:O1G  | 0.42     | 1.96        | 39     | 1     |
| 2:A:121:RCY:O1G  | 2:A:121:RCY:H1MA | 0.42     | 2.15        | 60     | 1     |
| 1:A:67:ILE:HD12  | 1:A:67:ILE:N     | 0.42     | 2.28        | 89     | 1     |
| 2:A:110:RCY:N1V  | 2:A:121:RCY:C1M  | 0.41     | 2.78        | 5      | 1     |
| 1:A:78:LEU:HD12  | 1:A:78:LEU:C     | 0.41     | 2.35        | 22     | 2     |
| 1:A:67:ILE:C     | 2:A:173:RCY:O1J  | 0.41     | 2.58        | 31     | 1     |
| 1:A:67:ILE:HG23  | 1:A:72:ALA:HB2   | 0.41     | 1.90        | 31     | 1     |
| 2:A:138:RCY:N1V  | 2:A:150:RCY:H1ZB | 0.41     | 1.98        | 41     | 1     |
| 2:A:168:RCY:C1M  | 2:A:173:RCY:H1S  | 0.41     | 2.37        | 58     | 1     |
| 2:A:176:RCY:C1C  | 2:A:187:RCY:C1Q  | 0.41     | 2.97        | 58     | 1     |
| 1:A:62:THR:HG1   | 2:A:168:RCY:C1P  | 0.41     | 2.13        | 72     | 1     |
| 1:A:63:ASP:C     | 2:A:168:RCY:H1Z  | 0.41     | 2.21        | 78     | 1     |
| 1:A:75:HIS:O     | 2:A:176:RCY:C1S  | 0.41     | 2.60        | 84     | 1     |
| 2:A:110:RCY:C1Q  | 2:A:110:RCY:H1ZB | 0.41     | 2.45        | 87     | 1     |
| 1:A:60:CYS:CA    | 2:A:130:RCY:C1Z  | 0.41     | 2.90        | 88     | 1     |
| 2:A:168:RCY:H1VA | 2:A:173:RCY:H1ZB | 0.41     | 1.87        | 29     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:168:RCY:H1V  | 2:A:173:RCY:H1ZA | 0.41     | 1.85        | 29     | 1     |
| 1:A:74:ASN:CG    | 1:A:75:HIS:H     | 0.41     | 2.18        | 46     | 2     |
| 1:A:74:ASN:HD22  | 1:A:74:ASN:C     | 0.41     | 2.19        | 74     | 1     |
| 2:A:138:RCY:O1G  | 2:A:150:RCY:H1S  | 0.41     | 2.10        | 81     | 1     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:O1H  | 0.41     | 2.68        | 3      | 1     |
| 2:A:168:RCY:H1VB | 2:A:176:RCY:O1J  | 0.41     | 2.14        | 16     | 1     |
| 1:A:60:CYS:HB3   | 2:A:160:RCY:H1LA | 0.41     | 1.43        | 26     | 1     |
| 1:A:73:CYS:O     | 2:A:173:RCY:O1H  | 0.41     | 2.39        | 35     | 1     |
| 2:A:160:RCY:H1VB | 2:A:168:RCY:O1J  | 0.41     | 2.12        | 47     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:176:RCY:H1S  | 0.41     | 2.45        | 48     | 1     |
| 1:A:65:THR:CG2   | 2:A:160:RCY:H1Y  | 0.41     | 2.26        | 55     | 1     |
| 1:A:66:VAL:CB    | 2:A:121:RCY:H1YB | 0.41     | 2.35        | 83     | 1     |
| 1:A:59:GLY:C     | 2:A:150:RCY:C1L  | 0.41     | 2.89        | 85     | 1     |
| 1:A:67:ILE:C     | 2:A:168:RCY:O1H  | 0.41     | 2.54        | 86     | 1     |
| 2:A:168:RCY:H1M  | 2:A:176:RCY:C1Y  | 0.41     | 2.43        | 98     | 1     |
| 1:A:69:PRO:CG    | 2:A:173:RCY:N1V  | 0.41     | 2.80        | 9      | 1     |
| 1:A:63:ASP:OD2   | 1:A:70:TRP:CE2   | 0.41     | 2.73        | 12     | 1     |
| 1:A:67:ILE:O     | 2:A:173:RCY:C1C  | 0.41     | 2.68        | 24     | 1     |
| 1:A:70:TRP:CD1   | 2:A:168:RCY:C1Q  | 0.41     | 3.03        | 42     | 1     |
| 2:A:173:RCY:H1M  | 2:A:176:RCY:H1CA | 0.41     | 0.77        | 47     | 1     |
| 1:A:70:TRP:CE3   | 2:A:168:RCY:C1Y  | 0.41     | 3.04        | 49     | 1     |
| 1:A:68:CYS:SG    | 1:A:71:GLU:CB    | 0.41     | 3.08        | 52     | 1     |
| 1:A:67:ILE:CB    | 2:A:176:RCY:C1C  | 0.41     | 2.98        | 53     | 1     |
| 2:A:130:RCY:C1Y  | 2:A:160:RCY:N1V  | 0.41     | 2.83        | 81     | 1     |
| 1:A:70:TRP:C     | 2:A:121:RCY:O1J  | 0.41     | 2.59        | 94     | 1     |
| 2:A:176:RCY:H1VA | 2:A:187:RCY:H1S  | 0.41     | 1.92        | 98     | 1     |
| 1:A:76:CYS:HB2   | 2:A:176:RCY:H1LA | 0.41     | 1.43        | 49     | 2     |
| 1:A:63:ASP:O     | 2:A:160:RCY:H1VA | 0.41     | 1.96        | 3      | 1     |
| 2:A:176:RCY:O1G  | 2:A:176:RCY:H1MA | 0.41     | 2.14        | 29     | 2     |
| 1:A:70:TRP:HE1   | 2:A:168:RCY:H1S  | 0.41     | 1.75        | 24     | 1     |
| 1:A:70:TRP:CA    | 2:A:130:RCY:O1G  | 0.41     | 2.65        | 27     | 1     |
| 2:A:173:RCY:C1Z  | 2:A:176:RCY:H1V  | 0.41     | 1.12        | 31     | 1     |
| 1:A:70:TRP:CD1   | 2:A:150:RCY:H1L  | 0.41     | 2.23        | 34     | 1     |
| 1:A:63:ASP:OD1   | 1:A:63:ASP:C     | 0.41     | 2.57        | 44     | 1     |
| 2:A:173:RCY:H1CB | 2:A:176:RCY:H1V  | 0.41     | 1.92        | 52     | 1     |
| 1:A:64:ILE:HG12  | 1:A:68:CYS:CB    | 0.41     | 2.45        | 76     | 1     |
| 2:A:150:RCY:C1C  | 2:A:187:RCY:H1Z  | 0.41     | 2.46        | 81     | 1     |
| 2:A:168:RCY:H1U  | 2:A:173:RCY:H1VA | 0.41     | 1.91        | 85     | 1     |
| 1:A:74:ASN:ND2   | 2:A:168:RCY:C1Y  | 0.41     | 2.51        | 91     | 1     |
| 2:A:160:RCY:O1H  | 2:A:168:RCY:C1Y  | 0.41     | 2.69        | 14     | 1     |
| 2:A:138:RCY:C1P  | 2:A:150:RCY:C1Q  | 0.41     | 2.70        | 23     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:150:RCY:C1Z  | 2:A:187:RCY:C1X  | 0.41     | 2.21        | 37     | 1     |
| 2:A:150:RCY:H1M  | 2:A:187:RCY:H1MA | 0.41     | 1.92        | 41     | 1     |
| 2:A:168:RCY:C1P  | 2:A:168:RCY:C1C  | 0.41     | 2.90        | 53     | 1     |
| 2:A:173:RCY:H1VB | 2:A:187:RCY:O1G  | 0.41     | 2.15        | 57     | 1     |
| 2:A:176:RCY:O1H  | 2:A:176:RCY:C1W  | 0.41     | 2.64        | 57     | 1     |
| 2:A:168:RCY:C1S  | 2:A:173:RCY:H1YA | 0.41     | 2.35        | 84     | 1     |
| 1:A:60:CYS:O     | 2:A:130:RCY:H1ZB | 0.41     | 2.15        | 88     | 1     |
| 2:A:138:RCY:H1YB | 2:A:187:RCY:H1ZA | 0.41     | 1.92        | 89     | 1     |
| 2:A:168:RCY:H1U  | 2:A:187:RCY:C1V  | 0.41     | 2.40        | 90     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:176:RCY:C1P  | 0.41     | 2.46        | 20     | 1     |
| 1:A:60:CYS:SG    | 1:A:64:ILE:O     | 0.41     | 2.78        | 33     | 1     |
| 2:A:138:RCY:C1S  | 2:A:187:RCY:H1Z  | 0.41     | 2.44        | 49     | 1     |
| 2:A:150:RCY:C1Q  | 2:A:187:RCY:H1CB | 0.41     | 2.31        | 53     | 1     |
| 1:A:74:ASN:CG    | 2:A:176:RCY:C1Y  | 0.41     | 2.87        | 56     | 1     |
| 2:A:168:RCY:H1CB | 2:A:176:RCY:O1J  | 0.41     | 1.98        | 59     | 1     |
| 1:A:71:GLU:CD    | 2:A:187:RCY:C1Q  | 0.41     | 2.84        | 88     | 1     |
| 2:A:130:RCY:C1W  | 2:A:160:RCY:O1H  | 0.41     | 2.47        | 88     | 1     |
| 1:A:74:ASN:OD1   | 2:A:173:RCY:H1S  | 0.41     | 2.05        | 2      | 1     |
| 2:A:130:RCY:H1M  | 2:A:160:RCY:C1P  | 0.41     | 2.44        | 18     | 1     |
| 2:A:121:RCY:C1M  | 2:A:160:RCY:C1Z  | 0.41     | 2.99        | 44     | 1     |
| 1:A:69:PRO:HA    | 2:A:168:RCY:H1U  | 0.41     | 1.46        | 57     | 1     |
| 2:A:160:RCY:H1LA | 2:A:168:RCY:C1V  | 0.41     | 2.44        | 60     | 1     |
| 2:A:150:RCY:C1W  | 2:A:187:RCY:H1YB | 0.41     | 2.42        | 88     | 1     |
| 2:A:168:RCY:H1C  | 2:A:173:RCY:H1MA | 0.41     | 1.56        | 91     | 1     |
| 1:A:71:GLU:OE2   | 2:A:168:RCY:N1R  | 0.41     | 2.53        | 93     | 1     |
| 1:A:64:ILE:HG21  | 2:A:168:RCY:H1YB | 0.41     | 1.93        | 95     | 1     |
| 1:A:68:CYS:HB2   | 2:A:168:RCY:H1LA | 0.41     | 1.47        | 67     | 2     |
| 2:A:138:RCY:C1C  | 2:A:187:RCY:O1J  | 0.41     | 2.53        | 3      | 1     |
| 1:A:64:ILE:O     | 1:A:68:CYS:CA    | 0.41     | 2.69        | 93     | 2     |
| 2:A:173:RCY:O1G  | 2:A:173:RCY:H1M  | 0.41     | 2.16        | 90     | 2     |
| 1:A:68:CYS:HB3   | 2:A:168:RCY:H1LA | 0.41     | 1.48        | 10     | 2     |
| 2:A:168:RCY:C1P  | 2:A:173:RCY:H1V  | 0.41     | 2.45        | 11     | 1     |
| 1:A:71:GLU:HA    | 2:A:173:RCY:H1C  | 0.41     | 1.92        | 19     | 1     |
| 1:A:66:VAL:O     | 2:A:176:RCY:H1M  | 0.41     | 2.16        | 22     | 1     |
| 1:A:72:ALA:O     | 2:A:173:RCY:C1Y  | 0.41     | 2.41        | 22     | 1     |
| 1:A:71:GLU:CG    | 2:A:168:RCY:C1S  | 0.41     | 2.88        | 28     | 1     |
| 2:A:130:RCY:C1P  | 2:A:130:RCY:H1VB | 0.41     | 2.46        | 36     | 1     |
| 2:A:150:RCY:H1M  | 2:A:187:RCY:C1C  | 0.41     | 2.45        | 38     | 1     |
| 1:A:65:THR:HB    | 2:A:150:RCY:H1LA | 0.41     | 1.92        | 50     | 1     |
| 1:A:78:LEU:CD2   | 1:A:78:LEU:H     | 0.41     | 2.29        | 54     | 1     |
| 2:A:138:RCY:O1G  | 2:A:150:RCY:H1VA | 0.41     | 2.15        | 54     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 1:A:69:PRO:HG3   | 2:A:168:RCY:H1V  | 0.41     | 1.91        | 63     | 1     |
| 2:A:173:RCY:H1V  | 2:A:176:RCY:O1G  | 0.41     | 2.16        | 64     | 1     |
| 2:A:176:RCY:O1G  | 2:A:176:RCY:H1M  | 0.41     | 2.16        | 64     | 1     |
| 1:A:64:ILE:HG21  | 1:A:68:CYS:CA    | 0.41     | 2.45        | 76     | 1     |
| 1:A:65:THR:OG1   | 2:A:168:RCY:O1G  | 0.41     | 2.34        | 80     | 1     |
| 1:A:59:GLY:O     | 2:A:160:RCY:H1MA | 0.41     | 2.10        | 85     | 1     |
| 2:A:121:RCY:C1P  | 2:A:121:RCY:C1V  | 0.41     | 2.99        | 85     | 1     |
| 1:A:77:GLU:CD    | 1:A:77:GLU:C     | 0.41     | 2.79        | 87     | 1     |
| 1:A:63:ASP:CG    | 2:A:160:RCY:H1L  | 0.41     | 2.35        | 92     | 1     |
| 1:A:60:CYS:CA    | 2:A:168:RCY:C1P  | 0.41     | 2.91        | 95     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:173:RCY:C1P  | 0.41     | 2.46        | 95     | 1     |
| 2:A:173:RCY:H1ZB | 2:A:173:RCY:O1G  | 0.41     | 2.16        | 95     | 1     |
| 1:A:68:CYS:N     | 2:A:173:RCY:H1YA | 0.41     | 2.30        | 100    | 1     |
| 1:A:70:TRP:CZ2   | 2:A:176:RCY:C1X  | 0.41     | 2.93        | 4      | 1     |
| 1:A:63:ASP:OD1   | 1:A:64:ILE:N     | 0.41     | 2.54        | 12     | 1     |
| 2:A:168:RCY:O1J  | 2:A:187:RCY:O1J  | 0.41     | 2.39        | 72     | 1     |
| 1:A:70:TRP:CE2   | 2:A:121:RCY:O1H  | 0.41     | 2.58        | 78     | 1     |
| 1:A:64:ILE:HG23  | 2:A:168:RCY:H1LA | 0.41     | 1.93        | 96     | 1     |
| 1:A:71:GLU:C     | 1:A:71:GLU:OE1   | 0.41     | 2.60        | 96     | 1     |
| 1:A:65:THR:CA    | 2:A:168:RCY:O1G  | 0.41     | 2.67        | 97     | 1     |
| 1:A:69:PRO:HB2   | 2:A:173:RCY:O1G  | 0.40     | 2.15        | 6      | 1     |
| 1:A:64:ILE:HG21  | 2:A:160:RCY:C1C  | 0.40     | 2.47        | 39     | 1     |
| 2:A:168:RCY:H1M  | 2:A:173:RCY:H1C  | 0.40     | 1.93        | 45     | 1     |
| 2:A:138:RCY:C1S  | 2:A:138:RCY:N1V  | 0.40     | 2.85        | 50     | 1     |
| 1:A:67:ILE:HG21  | 2:A:176:RCY:H1CA | 0.40     | 1.92        | 53     | 1     |
| 2:A:168:RCY:C1M  | 2:A:187:RCY:C1C  | 0.40     | 2.99        | 64     | 1     |
| 1:A:64:ILE:CD1   | 1:A:64:ILE:C     | 0.40     | 2.88        | 73     | 1     |
| 2:A:173:RCY:C1P  | 2:A:187:RCY:H1Z  | 0.40     | 2.44        | 75     | 1     |
| 1:A:67:ILE:HG23  | 1:A:72:ALA:HB3   | 0.40     | 1.91        | 81     | 1     |
| 1:A:78:LEU:HD21  | 2:A:187:RCY:O1J  | 0.40     | 2.13        | 91     | 1     |
| 2:A:150:RCY:N1R  | 2:A:187:RCY:C1Z  | 0.40     | 2.78        | 8      | 1     |
| 1:A:76:CYS:H     | 2:A:176:RCY:H1LA | 0.40     | 1.69        | 10     | 1     |
| 2:A:138:RCY:O1G  | 2:A:187:RCY:O1G  | 0.40     | 2.38        | 11     | 1     |
| 1:A:69:PRO:HD3   | 2:A:173:RCY:C1P  | 0.40     | 2.39        | 24     | 1     |
| 2:A:110:RCY:H1YB | 2:A:121:RCY:O1J  | 0.40     | 2.14        | 33     | 1     |
| 1:A:76:CYS:HB2   | 2:A:173:RCY:C1W  | 0.40     | 2.47        | 42     | 1     |
| 1:A:77:GLU:O     | 1:A:77:GLU:CD    | 0.40     | 2.59        | 45     | 1     |
| 1:A:71:GLU:O     | 1:A:74:ASN:CG    | 0.40     | 2.59        | 46     | 1     |
| 2:A:130:RCY:H1Y  | 2:A:138:RCY:H1YB | 0.40     | 1.94        | 49     | 1     |
| 1:A:74:ASN:HB3   | 2:A:176:RCY:C1L  | 0.40     | 2.46        | 52     | 1     |
| 1:A:60:CYS:CA    | 2:A:138:RCY:O1G  | 0.40     | 2.69        | 62     | 1     |

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| Atom-1           | Atom-2           | Clash(Å) | Distance(Å) | Models |       |
|------------------|------------------|----------|-------------|--------|-------|
|                  |                  |          |             | Worst  | Total |
| 2:A:130:RCY:H1MA | 2:A:130:RCY:O1G  | 0.40     | 2.16        | 75     | 1     |
| 2:A:176:RCY:H1YB | 2:A:187:RCY:O1J  | 0.40     | 2.15        | 82     | 1     |
| 1:A:62:THR:HG22  | 2:A:168:RCY:H1VA | 0.40     | 1.45        | 7      | 1     |
| 2:A:160:RCY:C1C  | 2:A:160:RCY:O1H  | 0.40     | 2.69        | 34     | 1     |
| 2:A:168:RCY:O1H  | 2:A:173:RCY:C1U  | 0.40     | 2.69        | 48     | 1     |
| 2:A:138:RCY:H1VB | 2:A:187:RCY:C1Y  | 0.40     | 2.46        | 49     | 1     |
| 2:A:160:RCY:N1R  | 2:A:160:RCY:C1M  | 0.40     | 2.68        | 79     | 1     |
| 1:A:70:TRP:CA    | 2:A:176:RCY:H1YB | 0.40     | 2.39        | 80     | 1     |
| 2:A:121:RCY:O1G  | 2:A:121:RCY:H1M  | 0.40     | 2.17        | 80     | 1     |
| 1:A:71:GLU:CA    | 2:A:168:RCY:H1C  | 0.40     | 2.43        | 86     | 1     |
| 1:A:61:GLY:N     | 2:A:168:RCY:O1G  | 0.40     | 2.54        | 95     | 1     |
| 1:A:76:CYS:CB    | 2:A:173:RCY:H1L  | 0.40     | 2.46        | 14     | 1     |
| 2:A:173:RCY:H1ZA | 2:A:187:RCY:H1YA | 0.40     | 1.94        | 14     | 1     |
| 1:A:63:ASP:CG    | 1:A:64:ILE:N     | 0.40     | 2.74        | 28     | 1     |
| 2:A:176:RCY:H1VA | 2:A:187:RCY:H1YB | 0.40     | 1.73        | 36     | 1     |
| 1:A:61:GLY:C     | 1:A:63:ASP:OD1   | 0.40     | 2.59        | 40     | 1     |
| 1:A:73:CYS:HB2   | 2:A:176:RCY:H1MA | 0.40     | 1.94        | 58     | 1     |
| 2:A:173:RCY:H1YB | 2:A:187:RCY:H1Y  | 0.40     | 1.42        | 66     | 1     |
| 2:A:160:RCY:C1Q  | 2:A:176:RCY:C1Y  | 0.40     | 2.99        | 71     | 1     |
| 2:A:176:RCY:O1J  | 2:A:187:RCY:C1Z  | 0.40     | 2.67        | 71     | 1     |
| 1:A:69:PRO:CB    | 2:A:176:RCY:H1Y  | 0.40     | 2.20        | 72     | 1     |
| 1:A:76:CYS:HB2   | 2:A:160:RCY:C1Y  | 0.40     | 2.47        | 73     | 1     |
| 2:A:138:RCY:C1Y  | 2:A:187:RCY:H1ZA | 0.40     | 2.45        | 89     | 1     |
| 2:A:168:RCY:H1YA | 2:A:176:RCY:C1M  | 0.40     | 2.46        | 94     | 1     |
| 2:A:173:RCY:O1G  | 2:A:173:RCY:H1MA | 0.40     | 2.15        | 95     | 1     |
| 2:A:130:RCY:C1C  | 2:A:160:RCY:H1MA | 0.40     | 2.27        | 7      | 1     |
| 1:A:73:CYS:HB3   | 2:A:173:RCY:H1LA | 0.40     | 1.47        | 16     | 1     |
| 2:A:176:RCY:C1Y  | 2:A:187:RCY:C1U  | 0.40     | 2.93        | 19     | 1     |
| 2:A:176:RCY:H1V  | 2:A:187:RCY:H1VA | 0.40     | 0.67        | 33     | 1     |
| 1:A:70:TRP:CE2   | 2:A:168:RCY:H1M  | 0.40     | 2.52        | 37     | 1     |
| 2:A:150:RCY:H1YB | 2:A:187:RCY:H1VA | 0.40     | 1.88        | 38     | 1     |
| 2:A:168:RCY:C1Y  | 2:A:173:RCY:H1VB | 0.40     | 1.07        | 45     | 1     |
| 1:A:70:TRP:CG    | 2:A:173:RCY:O1J  | 0.40     | 2.74        | 50     | 1     |
| 1:A:77:GLU:CG    | 2:A:173:RCY:H1CB | 0.40     | 2.46        | 51     | 1     |
| 2:A:150:RCY:C1P  | 2:A:187:RCY:H1VB | 0.40     | 2.43        | 53     | 1     |
| 1:A:62:THR:CB    | 1:A:65:THR:HG1   | 0.40     | 2.30        | 57     | 1     |
| 1:A:69:PRO:C     | 2:A:176:RCY:H1VA | 0.40     | 2.37        | 72     | 1     |
| 1:A:69:PRO:CG    | 2:A:150:RCY:O1J  | 0.40     | 2.70        | 85     | 1     |
| 1:A:71:GLU:OE2   | 2:A:130:RCY:C1W  | 0.40     | 2.64        | 94     | 1     |
| 1:A:61:GLY:HA2   | 2:A:168:RCY:H1ZB | 0.40     | 1.92        | 95     | 1     |

## 6.3 Torsion angles [i](#)

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

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

| Mol | Chain | Analysed        | Favoured     | Allowed      | Outliers    | Percentiles |   |
|-----|-------|-----------------|--------------|--------------|-------------|-------------|---|
| 1   | A     | 20/87 (23%)     | 7±2 (36±10%) | 8±2 (38±10%) | 5±2 (26±9%) | 0           | 1 |
| All | All   | 2000/8700 (23%) | 723 (36%)    | 754 (38%)    | 523 (26%)   | 0           | 1 |

All 18 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1   | A     | 66  | VAL  | 57             |
| 1   | A     | 64  | ILE  | 48             |
| 1   | A     | 65  | THR  | 41             |
| 1   | A     | 77  | GLU  | 39             |
| 1   | A     | 69  | PRO  | 33             |
| 1   | A     | 76  | CYS  | 31             |
| 1   | A     | 61  | GLY  | 31             |
| 1   | A     | 60  | CYS  | 31             |
| 1   | A     | 75  | HIS  | 30             |
| 1   | A     | 62  | THR  | 30             |
| 1   | A     | 72  | ALA  | 28             |
| 1   | A     | 74  | ASN  | 27             |
| 1   | A     | 63  | ASP  | 25             |
| 1   | A     | 73  | CYS  | 22             |
| 1   | A     | 78  | LEU  | 21             |
| 1   | A     | 59  | GLY  | 18             |
| 1   | A     | 70  | TRP  | 6              |
| 1   | A     | 71  | GLU  | 5              |

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

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

| Mol | Chain | Analysed        | Rotameric    | Outliers    | Percentiles |    |
|-----|-------|-----------------|--------------|-------------|-------------|----|
| 1   | A     | 17/73 (23%)     | 14±1 (80±9%) | 3±1 (20±9%) | 3           | 33 |
| All | All   | 1700/7300 (23%) | 1356 (80%)   | 344 (20%)   | 3           | 33 |

All 15 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1   | A     | 68  | CYS  | 48             |
| 1   | A     | 70  | TRP  | 41             |
| 1   | A     | 73  | CYS  | 32             |
| 1   | A     | 62  | THR  | 31             |
| 1   | A     | 76  | CYS  | 26             |
| 1   | A     | 60  | CYS  | 26             |
| 1   | A     | 78  | LEU  | 24             |
| 1   | A     | 66  | VAL  | 22             |
| 1   | A     | 74  | ASN  | 19             |
| 1   | A     | 64  | ILE  | 19             |
| 1   | A     | 75  | HIS  | 18             |
| 1   | A     | 71  | GLU  | 11             |
| 1   | A     | 65  | THR  | 10             |
| 1   | A     | 63  | ASP  | 9              |
| 1   | A     | 77  | GLU  | 8              |

### 6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

## 6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 6.6 Ligand geometry [i](#)

10 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds for which Mogul statistics could be retrieved, the number of bonds that are observed in the model and the number of bonds

that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length is the number of standard deviations the observed value is removed from the expected value. A bond length with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.

| Mol | Type | Chain | Res | Link | Counts   | Bond lengths |             |
|-----|------|-------|-----|------|----------|--------------|-------------|
|     |      |       |     |      |          | RMSZ         | #Z>2        |
| 2   | RCY  | A     | 110 | 1    | 17,18,18 | 2.86±0.33    | 6±0 (35±0%) |
| 2   | RCY  | A     | 138 | 1    | 17,18,18 | 2.88±0.30    | 6±0 (35±2%) |
| 2   | RCY  | A     | 187 | 1    | 17,18,18 | 2.88±0.42    | 6±0 (35±0%) |
| 2   | RCY  | A     | 168 | 1    | 17,18,18 | 2.94±1.01    | 6±1 (36±5%) |
| 2   | RCY  | A     | 173 | 1    | 17,18,18 | 2.86±0.24    | 6±0 (35±1%) |
| 2   | RCY  | A     | 160 | 1    | 17,18,18 | 2.88±0.37    | 6±0 (35±1%) |
| 2   | RCY  | A     | 121 | 1    | 17,18,18 | 2.88±0.31    | 6±0 (35±1%) |
| 2   | RCY  | A     | 150 | 1    | 17,18,18 | 2.87±0.36    | 6±0 (35±1%) |
| 2   | RCY  | A     | 130 | 1    | 17,18,18 | 3.26±4.12    | 6±1 (35±5%) |
| 2   | RCY  | A     | 176 | 1    | 17,18,18 | 2.91±0.60    | 6±0 (35±2%) |

In the following table, the Counts columns list the number of angles for which Mogul statistics could be retrieved, the number of angles that are observed in the model and the number of angles that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond angle is the number of standard deviations the observed value is removed from the expected value. A bond angle with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond angles.

| Mol | Type | Chain | Res | Link | Counts   | Bond angles |             |
|-----|------|-------|-----|------|----------|-------------|-------------|
|     |      |       |     |      |          | RMSZ        | #Z>2        |
| 2   | RCY  | A     | 110 | 1    | 22,30,30 | 4.32±0.30   | 8±1 (36±2%) |
| 2   | RCY  | A     | 138 | 1    | 22,30,30 | 7.44±10.41  | 9±2 (38±7%) |
| 2   | RCY  | A     | 187 | 1    | 22,30,30 | 4.73±3.94   | 8±1 (36±3%) |
| 2   | RCY  | A     | 168 | 1    | 22,30,30 | 4.87±3.94   | 8±1 (37±4%) |
| 2   | RCY  | A     | 173 | 1    | 22,30,30 | 5.49±6.41   | 8±1 (37±3%) |
| 2   | RCY  | A     | 160 | 1    | 22,30,30 | 5.93±7.62   | 8±1 (37±5%) |
| 2   | RCY  | A     | 121 | 1    | 22,30,30 | 6.64±9.13   | 8±1 (37±5%) |
| 2   | RCY  | A     | 150 | 1    | 22,30,30 | 5.08±5.31   | 8±1 (36±3%) |
| 2   | RCY  | A     | 130 | 1    | 22,30,30 | 6.14±7.98   | 8±2 (37±7%) |
| 2   | RCY  | A     | 176 | 1    | 22,30,30 | 6.74±9.35   | 8±2 (38±8%) |

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

| Mol | Type | Chain | Res | Link | Chirals   | Torsions    | Rings     |
|-----|------|-------|-----|------|-----------|-------------|-----------|
| 2   | RCY  | A     | 121 | 1    | -         | 0±0,4,40,40 | 0±0,2,2,2 |
| 2   | RCY  | A     | 187 | 1    | -         | 0±0,4,40,40 | 0±0,2,2,2 |
| 2   | RCY  | A     | 176 | 1    | -         | 1±0,4,40,40 | 0±0,2,2,2 |
| 2   | RCY  | A     | 110 | 1    | -         | 0±0,4,40,40 | 0±0,2,2,2 |
| 2   | RCY  | A     | 168 | 1    | 1±0,1,7,7 | 0±0,4,40,40 | 0±0,2,2,2 |
| 2   | RCY  | A     | 130 | 1    | 1±0,1,7,7 | 0±0,4,40,40 | 0±0,2,2,2 |
| 2   | RCY  | A     | 173 | 1    | 1±0,1,7,7 | 0±0,4,40,40 | 0±0,2,2,2 |
| 2   | RCY  | A     | 150 | 1    | 1±0,1,7,7 | 0±0,4,40,40 | 0±0,2,2,2 |
| 2   | RCY  | A     | 160 | 1    | 1±0,1,7,7 | 0±0,4,40,40 | 0±0,2,2,2 |
| 2   | RCY  | A     | 138 | 1    | 1±0,1,7,7 | 0±0,4,40,40 | 0±0,2,2,2 |

All unique bond outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

| Mol | Chain | Res | Type | Atoms   | Z      | Observed(Å) | Ideal(Å) | Models |       |
|-----|-------|-----|------|---------|--------|-------------|----------|--------|-------|
|     |       |     |      |         |        |             |          | Worst  | Total |
| 2   | A     | 130 | RCY  | C1Q-N1R | 105.07 | 3.31        | 1.39     | 79     | 100   |
| 2   | A     | 130 | RCY  | C1U-N1R | 104.36 | 5.00        | 1.46     | 79     | 98    |
| 2   | A     | 130 | RCY  | C1P-N1R | 84.86  | 2.94        | 1.39     | 79     | 100   |
| 2   | A     | 130 | RCY  | C1M-C1U | 42.38  | 2.86        | 1.53     | 79     | 99    |
| 2   | A     | 168 | RCY  | C1S-C1Q | 35.22  | 2.51        | 1.51     | 79     | 2     |
| 2   | A     | 168 | RCY  | C1S-C1L | 32.11  | 2.32        | 1.52     | 79     | 2     |
| 2   | A     | 130 | RCY  | C1X-N1V | 22.60  | 1.85        | 1.49     | 79     | 100   |
| 2   | A     | 130 | RCY  | C1S-C1Q | 20.85  | 2.10        | 1.51     | 79     | 2     |
| 2   | A     | 176 | RCY  | C1Q-N1R | 20.57  | 1.77        | 1.39     | 25     | 100   |
| 2   | A     | 187 | RCY  | C1Q-N1R | 19.05  | 1.74        | 1.39     | 25     | 100   |
| 2   | A     | 130 | RCY  | C1L-C1P | 18.64  | 2.04        | 1.51     | 79     | 1     |
| 2   | A     | 130 | RCY  | C1S-C1L | 18.13  | 1.97        | 1.52     | 79     | 1     |
| 2   | A     | 176 | RCY  | C1U-N1R | 18.08  | 2.07        | 1.46     | 25     | 100   |
| 2   | A     | 130 | RCY  | C1M-C1W | 17.82  | 2.08        | 1.54     | 79     | 1     |
| 2   | A     | 150 | RCY  | C1Q-N1R | 15.71  | 1.68        | 1.39     | 79     | 100   |
| 2   | A     | 168 | RCY  | C1Q-N1R | 15.46  | 1.67        | 1.39     | 79     | 100   |
| 2   | A     | 160 | RCY  | C1Q-N1R | 14.04  | 1.65        | 1.39     | 79     | 100   |
| 2   | A     | 138 | RCY  | C1Q-N1R | 13.92  | 1.65        | 1.39     | 79     | 100   |
| 2   | A     | 121 | RCY  | C1Q-N1R | 13.59  | 1.64        | 1.39     | 79     | 100   |
| 2   | A     | 110 | RCY  | C1P-N1R | 13.15  | 1.63        | 1.39     | 79     | 100   |
| 2   | A     | 110 | RCY  | C1Q-N1R | 12.96  | 1.63        | 1.39     | 25     | 100   |
| 2   | A     | 176 | RCY  | C1P-N1R | 12.69  | 1.62        | 1.39     | 79     | 100   |
| 2   | A     | 187 | RCY  | C1P-N1R | 12.66  | 1.62        | 1.39     | 79     | 100   |

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| Mol | Chain | Res | Type | Atoms   | Z     | Observed(Å) | Ideal(Å) | Models |       |
|-----|-------|-----|------|---------|-------|-------------|----------|--------|-------|
|     |       |     |      |         |       |             |          | Worst  | Total |
| 2   | A     | 150 | RCY  | C1P-N1R | 12.57 | 1.62        | 1.39     | 25     | 100   |
| 2   | A     | 173 | RCY  | C1P-N1R | 12.44 | 1.62        | 1.39     | 25     | 100   |
| 2   | A     | 160 | RCY  | C1S-C1Q | 12.15 | 1.85        | 1.51     | 25     | 2     |
| 2   | A     | 160 | RCY  | C1P-N1R | 12.04 | 1.61        | 1.39     | 25     | 99    |
| 2   | A     | 173 | RCY  | C1Q-N1R | 11.65 | 1.60        | 1.39     | 25     | 99    |
| 2   | A     | 168 | RCY  | C1U-N1R | 11.44 | 1.85        | 1.46     | 25     | 99    |
| 2   | A     | 121 | RCY  | C1P-N1R | 10.72 | 1.59        | 1.39     | 25     | 100   |
| 2   | A     | 160 | RCY  | C1U-N1R | 10.62 | 1.82        | 1.46     | 25     | 100   |
| 2   | A     | 130 | RCY  | C1Z-C1W | 9.85  | 1.75        | 1.53     | 79     | 1     |
| 2   | A     | 138 | RCY  | C1P-N1R | 9.84  | 1.57        | 1.39     | 25     | 100   |
| 2   | A     | 130 | RCY  | C1W-N1V | 9.78  | 1.33        | 1.49     | 79     | 100   |
| 2   | A     | 187 | RCY  | C1U-N1R | 9.55  | 1.78        | 1.46     | 25     | 100   |
| 2   | A     | 121 | RCY  | C1U-N1R | 9.03  | 1.76        | 1.46     | 79     | 98    |
| 2   | A     | 138 | RCY  | C1U-N1R | 9.00  | 1.76        | 1.46     | 79     | 97    |
| 2   | A     | 168 | RCY  | C1P-N1R | 8.95  | 1.55        | 1.39     | 7      | 100   |
| 2   | A     | 150 | RCY  | C1U-N1R | 8.94  | 1.76        | 1.46     | 79     | 99    |
| 2   | A     | 173 | RCY  | C1S-C1Q | 8.76  | 1.76        | 1.51     | 79     | 1     |
| 2   | A     | 176 | RCY  | C1Z-C1W | 8.61  | 1.34        | 1.53     | 25     | 2     |
| 2   | A     | 168 | RCY  | O1G-C1P | 8.54  | 1.04        | 1.23     | 25     | 1     |
| 2   | A     | 110 | RCY  | C1U-N1R | 8.34  | 1.74        | 1.46     | 79     | 100   |
| 2   | A     | 176 | RCY  | C1X-N1V | 8.11  | 1.62        | 1.49     | 79     | 99    |
| 2   | A     | 138 | RCY  | C1X-N1V | 7.79  | 1.61        | 1.49     | 79     | 100   |
| 2   | A     | 187 | RCY  | C1X-N1V | 7.75  | 1.61        | 1.49     | 25     | 100   |
| 2   | A     | 176 | RCY  | C1S-C1Q | 7.61  | 1.72        | 1.51     | 25     | 1     |
| 2   | A     | 160 | RCY  | C1X-N1V | 7.54  | 1.61        | 1.49     | 25     | 100   |
| 2   | A     | 130 | RCY  | C1C-C1X | 7.52  | 1.72        | 1.53     | 79     | 2     |
| 2   | A     | 130 | RCY  | C1V-C1X | 7.45  | 1.72        | 1.53     | 79     | 1     |
| 2   | A     | 173 | RCY  | C1U-N1R | 7.42  | 1.71        | 1.46     | 25     | 98    |
| 2   | A     | 121 | RCY  | C1X-N1V | 7.42  | 1.61        | 1.49     | 79     | 100   |
| 2   | A     | 168 | RCY  | C1X-N1V | 7.20  | 1.60        | 1.49     | 25     | 100   |
| 2   | A     | 176 | RCY  | C1C-C1X | 7.12  | 1.34        | 1.53     | 25     | 1     |
| 2   | A     | 160 | RCY  | C1S-C1L | 6.79  | 1.69        | 1.52     | 25     | 2     |
| 2   | A     | 130 | RCY  | O1H-C1Q | 6.73  | 1.37        | 1.23     | 79     | 1     |
| 2   | A     | 130 | RCY  | O1G-C1P | 6.68  | 1.37        | 1.23     | 79     | 1     |
| 2   | A     | 173 | RCY  | C1X-N1V | 6.65  | 1.60        | 1.49     | 79     | 100   |
| 2   | A     | 168 | RCY  | C1L-C1P | 6.47  | 1.69        | 1.51     | 25     | 2     |
| 2   | A     | 110 | RCY  | C1X-N1V | 6.44  | 1.59        | 1.49     | 25     | 100   |
| 2   | A     | 150 | RCY  | C1X-N1V | 6.24  | 1.59        | 1.49     | 25     | 100   |
| 2   | A     | 187 | RCY  | C1W-N1V | 6.23  | 1.59        | 1.49     | 25     | 100   |
| 2   | A     | 176 | RCY  | C1W-N1V | 5.99  | 1.59        | 1.49     | 79     | 99    |
| 2   | A     | 176 | RCY  | C1L-C1P | 5.62  | 1.67        | 1.51     | 25     | 1     |

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| Mol | Chain | Res | Type | Atoms   | Z    | Observed(Å) | Ideal(Å) | Models |       |
|-----|-------|-----|------|---------|------|-------------|----------|--------|-------|
|     |       |     |      |         |      |             |          | Worst  | Total |
| 2   | A     | 160 | RCY  | C1L-C1P | 5.54 | 1.66        | 1.51     | 25     | 1     |
| 2   | A     | 110 | RCY  | C1W-N1V | 5.54 | 1.58        | 1.49     | 25     | 100   |
| 2   | A     | 150 | RCY  | C1W-N1V | 5.47 | 1.58        | 1.49     | 25     | 100   |
| 2   | A     | 121 | RCY  | C1W-N1V | 4.99 | 1.57        | 1.49     | 79     | 100   |
| 2   | A     | 173 | RCY  | C1L-C1P | 4.76 | 1.64        | 1.51     | 79     | 1     |
| 2   | A     | 138 | RCY  | C1W-N1V | 4.70 | 1.57        | 1.49     | 25     | 99    |
| 2   | A     | 173 | RCY  | C1W-N1V | 4.58 | 1.56        | 1.49     | 79     | 100   |
| 2   | A     | 168 | RCY  | C1W-N1V | 4.34 | 1.56        | 1.49     | 79     | 100   |
| 2   | A     | 138 | RCY  | C1Z-C1W | 4.33 | 1.63        | 1.53     | 79     | 1     |
| 2   | A     | 160 | RCY  | C1W-N1V | 4.25 | 1.56        | 1.49     | 25     | 100   |
| 2   | A     | 168 | RCY  | C1M-C1W | 4.02 | 1.66        | 1.54     | 25     | 1     |
| 2   | A     | 138 | RCY  | C1V-C1X | 3.96 | 1.63        | 1.53     | 25     | 1     |
| 2   | A     | 160 | RCY  | C1V-C1X | 3.79 | 1.63        | 1.53     | 79     | 1     |
| 2   | A     | 168 | RCY  | C1V-C1X | 3.74 | 1.62        | 1.53     | 25     | 2     |
| 2   | A     | 160 | RCY  | C1Z-C1W | 3.71 | 1.61        | 1.53     | 25     | 1     |
| 2   | A     | 110 | RCY  | C1V-C1X | 3.64 | 1.62        | 1.53     | 25     | 2     |
| 2   | A     | 138 | RCY  | O1H-C1Q | 3.49 | 1.30        | 1.23     | 79     | 1     |
| 2   | A     | 121 | RCY  | C1S-C1Q | 3.46 | 1.41        | 1.51     | 79     | 2     |
| 2   | A     | 168 | RCY  | C1Y-C1W | 3.28 | 1.60        | 1.53     | 25     | 2     |
| 2   | A     | 187 | RCY  | C1Y-C1W | 3.24 | 1.60        | 1.53     | 25     | 1     |
| 2   | A     | 168 | RCY  | C1Z-C1W | 3.15 | 1.60        | 1.53     | 25     | 2     |
| 2   | A     | 138 | RCY  | C1M-C1U | 3.05 | 1.43        | 1.53     | 94     | 98    |
| 2   | A     | 110 | RCY  | C1M-C1U | 3.05 | 1.43        | 1.53     | 53     | 98    |
| 2   | A     | 121 | RCY  | C1M-C1U | 3.05 | 1.43        | 1.53     | 42     | 98    |
| 2   | A     | 150 | RCY  | C1M-C1U | 3.05 | 1.43        | 1.53     | 28     | 98    |
| 2   | A     | 168 | RCY  | C1M-C1U | 3.04 | 1.43        | 1.53     | 13     | 98    |
| 2   | A     | 160 | RCY  | C1M-C1U | 3.04 | 1.43        | 1.53     | 55     | 98    |
| 2   | A     | 176 | RCY  | C1M-C1U | 3.04 | 1.43        | 1.53     | 9      | 98    |
| 2   | A     | 173 | RCY  | C1M-C1U | 3.04 | 1.43        | 1.53     | 11     | 98    |
| 2   | A     | 187 | RCY  | C1M-C1U | 3.04 | 1.43        | 1.53     | 92     | 98    |
| 2   | A     | 121 | RCY  | C1S-C1L | 3.02 | 1.45        | 1.52     | 79     | 1     |
| 2   | A     | 138 | RCY  | C1S-C1Q | 3.02 | 1.59        | 1.51     | 79     | 2     |
| 2   | A     | 173 | RCY  | C1S-C1L | 3.00 | 1.60        | 1.52     | 79     | 1     |
| 2   | A     | 121 | RCY  | C1Z-C1W | 2.96 | 1.59        | 1.53     | 79     | 1     |
| 2   | A     | 138 | RCY  | C1L-C1P | 2.94 | 1.59        | 1.51     | 79     | 1     |
| 2   | A     | 138 | RCY  | C1M-C1W | 2.91 | 1.63        | 1.54     | 79     | 1     |
| 2   | A     | 176 | RCY  | C1S-C1L | 2.80 | 1.59        | 1.52     | 25     | 1     |
| 2   | A     | 150 | RCY  | C1Y-C1W | 2.72 | 1.59        | 1.53     | 79     | 2     |
| 2   | A     | 110 | RCY  | C1Z-C1W | 2.72 | 1.59        | 1.53     | 25     | 2     |
| 2   | A     | 187 | RCY  | C1C-C1X | 2.72 | 1.60        | 1.53     | 79     | 1     |
| 2   | A     | 176 | RCY  | O1H-C1Q | 2.71 | 1.17        | 1.23     | 25     | 1     |

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| Mol | Chain | Res | Type | Atoms   | Z    | Observed(Å) | Ideal(Å) | Models |       |
|-----|-------|-----|------|---------|------|-------------|----------|--------|-------|
|     |       |     |      |         |      |             |          | Worst  | Total |
| 2   | A     | 173 | RCY  | C1V-C1X | 2.61 | 1.60        | 1.53     | 25     | 1     |
| 2   | A     | 176 | RCY  | C1M-C1W | 2.55 | 1.62        | 1.54     | 25     | 2     |
| 2   | A     | 138 | RCY  | C1S-C1L | 2.46 | 1.58        | 1.52     | 2      | 1     |
| 2   | A     | 176 | RCY  | C1V-C1X | 2.41 | 1.59        | 1.53     | 79     | 1     |
| 2   | A     | 150 | RCY  | C1Z-C1W | 2.35 | 1.58        | 1.53     | 25     | 1     |
| 2   | A     | 121 | RCY  | C1V-C1X | 2.31 | 1.59        | 1.53     | 79     | 1     |
| 2   | A     | 150 | RCY  | C1C-C1X | 2.31 | 1.59        | 1.53     | 25     | 1     |
| 2   | A     | 130 | RCY  | C1Y-C1W | 2.04 | 1.57        | 1.53     | 79     | 1     |
| 2   | A     | 160 | RCY  | C1Y-C1W | 2.03 | 1.57        | 1.53     | 79     | 1     |
| 2   | A     | 168 | RCY  | O1H-C1Q | 2.02 | 1.27        | 1.23     | 79     | 1     |
| 2   | A     | 187 | RCY  | C1S-C1L | 2.02 | 1.47        | 1.52     | 25     | 1     |

All unique angle outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

| Mol | Chain | Res | Type | Atoms       | Z      | Observed(°) | Ideal(°) | Models |       |
|-----|-------|-----|------|-------------|--------|-------------|----------|--------|-------|
|     |       |     |      |             |        |             |          | Worst  | Total |
| 2   | A     | 138 | RCY  | C1Q-N1R-C1P | 141.30 | 23.53       | 112.48   | 7      | 100   |
| 2   | A     | 121 | RCY  | C1Q-N1R-C1P | 140.81 | 23.83       | 112.48   | 52     | 100   |
| 2   | A     | 173 | RCY  | C1Q-N1R-C1P | 140.81 | 23.84       | 112.48   | 84     | 100   |
| 2   | A     | 176 | RCY  | C1Q-N1R-C1P | 140.79 | 23.85       | 112.48   | 91     | 100   |
| 2   | A     | 130 | RCY  | C1Q-N1R-C1P | 140.78 | 23.86       | 112.48   | 15     | 100   |
| 2   | A     | 150 | RCY  | C1Q-N1R-C1P | 140.76 | 23.87       | 112.48   | 26     | 100   |
| 2   | A     | 160 | RCY  | C1Q-N1R-C1P | 140.76 | 23.87       | 112.48   | 74     | 100   |
| 2   | A     | 187 | RCY  | C1Q-N1R-C1P | 140.70 | 23.91       | 112.48   | 1      | 100   |
| 2   | A     | 168 | RCY  | C1Q-N1R-C1P | 111.31 | 42.41       | 112.48   | 7      | 100   |
| 2   | A     | 138 | RCY  | C1S-C1Q-N1R | 100.34 | 22.11       | 107.98   | 7      | 9     |
| 2   | A     | 121 | RCY  | C1S-C1Q-N1R | 100.23 | 22.20       | 107.98   | 52     | 8     |
| 2   | A     | 176 | RCY  | C1S-C1Q-N1R | 100.23 | 22.20       | 107.98   | 57     | 8     |
| 2   | A     | 130 | RCY  | C1S-C1Q-N1R | 100.21 | 22.21       | 107.98   | 15     | 6     |
| 2   | A     | 160 | RCY  | C1S-C1Q-N1R | 100.19 | 22.24       | 107.98   | 14     | 5     |
| 2   | A     | 173 | RCY  | C1S-C1Q-N1R | 100.19 | 22.24       | 107.98   | 84     | 4     |
| 2   | A     | 150 | RCY  | C1S-C1Q-N1R | 100.18 | 22.24       | 107.98   | 26     | 2     |
| 2   | A     | 187 | RCY  | C1S-C1Q-N1R | 99.93  | 22.46       | 107.98   | 1      | 3     |
| 2   | A     | 138 | RCY  | C1L-C1P-N1R | 88.40  | 32.32       | 107.98   | 6      | 99    |
| 2   | A     | 130 | RCY  | C1L-C1P-N1R | 86.71  | 33.78       | 107.98   | 51     | 100   |
| 2   | A     | 160 | RCY  | C1L-C1P-N1R | 86.66  | 33.81       | 107.98   | 7      | 100   |
| 2   | A     | 176 | RCY  | C1L-C1P-N1R | 86.64  | 33.84       | 107.98   | 85     | 100   |
| 2   | A     | 168 | RCY  | C1S-C1Q-N1R | 81.01  | 38.65       | 107.98   | 7      | 3     |
| 2   | A     | 138 | RCY  | C1L-C1S-C1Q | 77.92  | 25.34       | 105.24   | 50     | 10    |
| 2   | A     | 121 | RCY  | C1L-C1S-C1Q | 76.91  | 26.38       | 105.24   | 88     | 6     |
| 2   | A     | 150 | RCY  | C1L-C1S-C1Q | 76.90  | 26.38       | 105.24   | 47     | 3     |

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| Mol | Chain | Res | Type | Atoms       | Z     | Observed(°) | Ideal(°) | Models |       |
|-----|-------|-----|------|-------------|-------|-------------|----------|--------|-------|
|     |       |     |      |             |       |             |          | Worst  | Total |
| 2   | A     | 173 | RCY  | C1L-C1S-C1Q | 76.90 | 26.39       | 105.24   | 72     | 4     |
| 2   | A     | 130 | RCY  | C1L-C1S-C1Q | 76.89 | 26.39       | 105.24   | 7      | 6     |
| 2   | A     | 168 | RCY  | C1L-C1S-C1Q | 76.88 | 26.41       | 105.24   | 7      | 3     |
| 2   | A     | 121 | RCY  | C1L-C1P-N1R | 76.32 | 42.67       | 107.98   | 59     | 100   |
| 2   | A     | 173 | RCY  | C1L-C1P-N1R | 76.28 | 42.69       | 107.98   | 72     | 100   |
| 2   | A     | 168 | RCY  | C1L-C1P-N1R | 76.28 | 42.70       | 107.98   | 7      | 100   |
| 2   | A     | 150 | RCY  | C1L-C1P-N1R | 76.26 | 42.72       | 107.98   | 47     | 100   |
| 2   | A     | 130 | RCY  | C1S-C1L-C1P | 73.31 | 30.07       | 105.24   | 51     | 99    |
| 2   | A     | 168 | RCY  | C1S-C1L-C1P | 73.27 | 30.11       | 105.24   | 7      | 100   |
| 2   | A     | 150 | RCY  | C1S-C1L-C1P | 73.27 | 30.11       | 105.24   | 47     | 99    |
| 2   | A     | 173 | RCY  | C1S-C1L-C1P | 73.24 | 30.14       | 105.24   | 82     | 99    |
| 2   | A     | 121 | RCY  | C1S-C1L-C1P | 73.23 | 30.14       | 105.24   | 59     | 98    |
| 2   | A     | 160 | RCY  | C1L-C1S-C1Q | 70.95 | 32.49       | 105.24   | 2      | 6     |
| 2   | A     | 138 | RCY  | C1S-C1L-C1P | 70.04 | 33.41       | 105.24   | 43     | 99    |
| 2   | A     | 187 | RCY  | C1L-C1P-N1R | 69.77 | 48.27       | 107.98   | 1      | 100   |
| 2   | A     | 160 | RCY  | C1S-C1L-C1P | 67.58 | 35.95       | 105.24   | 2      | 99    |
| 2   | A     | 176 | RCY  | C1S-C1L-C1P | 64.66 | 38.94       | 105.24   | 85     | 100   |
| 2   | A     | 176 | RCY  | C1L-C1S-C1Q | 61.08 | 42.60       | 105.24   | 85     | 8     |
| 2   | A     | 187 | RCY  | C1L-C1S-C1Q | 60.68 | 43.02       | 105.24   | 1      | 3     |
| 2   | A     | 187 | RCY  | C1S-C1L-C1P | 59.64 | 44.08       | 105.24   | 1      | 100   |
| 2   | A     | 110 | RCY  | C1Q-N1R-C1P | 27.05 | 95.45       | 112.48   | 25     | 100   |
| 2   | A     | 130 | RCY  | C1M-C1W-N1V | 25.00 | 60.29       | 101.22   | 79     | 99    |
| 2   | A     | 130 | RCY  | C1U-N1R-C1P | 20.73 | 169.89      | 123.65   | 79     | 99    |
| 2   | A     | 130 | RCY  | O1H-C1Q-C1S | 14.60 | 89.41       | 127.12   | 79     | 3     |
| 2   | A     | 176 | RCY  | C1Z-C1W-C1Y | 14.26 | 79.43       | 109.22   | 25     | 2     |
| 2   | A     | 176 | RCY  | O1G-C1P-N1R | 13.38 | 141.91      | 124.36   | 85     | 7     |
| 2   | A     | 130 | RCY  | O1G-C1P-N1R | 13.35 | 141.87      | 124.36   | 51     | 5     |
| 2   | A     | 138 | RCY  | O1G-C1P-N1R | 13.19 | 141.66      | 124.36   | 43     | 9     |
| 2   | A     | 160 | RCY  | O1G-C1P-N1R | 12.42 | 108.06      | 124.36   | 7      | 6     |
| 2   | A     | 138 | RCY  | O1H-C1Q-N1R | 12.16 | 140.31      | 124.36   | 50     | 8     |
| 2   | A     | 130 | RCY  | C1Z-C1W-C1M | 11.77 | 143.82      | 112.59   | 79     | 1     |
| 2   | A     | 168 | RCY  | O1H-C1Q-N1R | 10.43 | 110.67      | 124.36   | 79     | 3     |
| 2   | A     | 176 | RCY  | C1Y-C1W-C1M | 10.17 | 139.59      | 112.59   | 25     | 1     |
| 2   | A     | 138 | RCY  | C1U-N1R-C1P | 9.50  | 144.83      | 123.65   | 2      | 99    |
| 2   | A     | 160 | RCY  | C1U-N1R-C1Q | 9.40  | 144.61      | 123.65   | 2      | 99    |
| 2   | A     | 130 | RCY  | C1Z-C1W-C1Y | 9.27  | 89.86       | 109.22   | 79     | 1     |
| 2   | A     | 187 | RCY  | O1H-C1Q-N1R | 9.27  | 136.51      | 124.36   | 1      | 1     |
| 2   | A     | 176 | RCY  | O1H-C1Q-N1R | 9.22  | 136.46      | 124.36   | 86     | 8     |
| 2   | A     | 130 | RCY  | C1U-N1R-C1Q | 9.04  | 143.81      | 123.65   | 79     | 100   |
| 2   | A     | 173 | RCY  | C1U-N1R-C1P | 8.93  | 143.58      | 123.65   | 79     | 100   |
| 2   | A     | 187 | RCY  | C1U-N1R-C1Q | 8.67  | 143.00      | 123.65   | 25     | 99    |

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| Mol | Chain | Res | Type | Atoms       | Z    | Observed(°) | Ideal(°) | Models |       |
|-----|-------|-----|------|-------------|------|-------------|----------|--------|-------|
|     |       |     |      |             |      |             |          | Worst  | Total |
| 2   | A     | 168 | RCY  | C1U-N1R-C1P | 8.63 | 142.91      | 123.65   | 25     | 100   |
| 2   | A     | 130 | RCY  | C1V-C1X-N1V | 8.62 | 78.89       | 109.24   | 79     | 1     |
| 2   | A     | 176 | RCY  | C1Z-C1W-C1M | 8.60 | 89.78       | 112.59   | 25     | 1     |
| 2   | A     | 176 | RCY  | C1V-C1X-C1C | 8.42 | 83.78       | 110.79   | 25     | 1     |
| 2   | A     | 160 | RCY  | C1U-N1R-C1P | 8.26 | 142.07      | 123.65   | 7      | 100   |
| 2   | A     | 176 | RCY  | C1U-N1R-C1P | 8.24 | 142.02      | 123.65   | 85     | 100   |
| 2   | A     | 130 | RCY  | O1H-C1Q-N1R | 7.83 | 114.08      | 124.36   | 15     | 5     |
| 2   | A     | 173 | RCY  | O1H-C1Q-N1R | 7.82 | 114.09      | 124.36   | 84     | 4     |
| 2   | A     | 176 | RCY  | C1U-N1R-C1Q | 7.82 | 141.10      | 123.65   | 25     | 99    |
| 2   | A     | 160 | RCY  | O1H-C1Q-N1R | 7.82 | 114.10      | 124.36   | 74     | 5     |
| 2   | A     | 121 | RCY  | O1H-C1Q-N1R | 7.80 | 114.12      | 124.36   | 52     | 7     |
| 2   | A     | 150 | RCY  | O1H-C1Q-N1R | 7.78 | 114.15      | 124.36   | 26     | 2     |
| 2   | A     | 121 | RCY  | C1U-N1R-C1P | 7.38 | 140.11      | 123.65   | 52     | 100   |
| 2   | A     | 150 | RCY  | C1U-N1R-C1P | 7.37 | 140.10      | 123.65   | 26     | 99    |
| 2   | A     | 176 | RCY  | O1G-C1P-C1L | 7.37 | 108.08      | 127.12   | 85     | 3     |
| 2   | A     | 187 | RCY  | C1U-N1R-C1P | 7.37 | 140.09      | 123.65   | 1      | 99    |
| 2   | A     | 130 | RCY  | O1G-C1P-C1L | 7.37 | 108.10      | 127.12   | 51     | 3     |
| 2   | A     | 138 | RCY  | O1G-C1P-C1L | 7.30 | 108.26      | 127.12   | 43     | 4     |
| 2   | A     | 138 | RCY  | C1U-N1R-C1Q | 7.29 | 139.91      | 123.65   | 7      | 99    |
| 2   | A     | 130 | RCY  | C1V-C1X-C1C | 7.08 | 88.09       | 110.79   | 79     | 2     |
| 2   | A     | 187 | RCY  | C1Y-C1W-N1V | 6.82 | 128.10      | 109.85   | 25     | 1     |
| 2   | A     | 138 | RCY  | O1H-C1Q-C1S | 6.56 | 110.19      | 127.12   | 50     | 7     |
| 2   | A     | 168 | RCY  | C1U-N1R-C1Q | 6.32 | 137.75      | 123.65   | 79     | 100   |
| 2   | A     | 168 | RCY  | O1G-C1P-N1R | 6.15 | 116.29      | 124.36   | 25     | 3     |
| 2   | A     | 150 | RCY  | C1U-N1R-C1Q | 5.93 | 136.87      | 123.65   | 79     | 100   |
| 2   | A     | 121 | RCY  | C1U-N1R-C1Q | 5.76 | 136.49      | 123.65   | 79     | 99    |
| 2   | A     | 138 | RCY  | O1J-N1V-C1W | 5.72 | 128.00      | 110.96   | 79     | 100   |
| 2   | A     | 160 | RCY  | O1G-C1P-C1L | 5.71 | 141.87      | 127.12   | 7      | 2     |
| 2   | A     | 176 | RCY  | O1J-N1V-C1W | 5.64 | 127.76      | 110.96   | 55     | 100   |
| 2   | A     | 150 | RCY  | O1J-N1V-C1W | 5.64 | 127.75      | 110.96   | 68     | 100   |
| 2   | A     | 173 | RCY  | O1J-N1V-C1W | 5.64 | 127.75      | 110.96   | 97     | 100   |
| 2   | A     | 168 | RCY  | O1J-N1V-C1W | 5.64 | 127.75      | 110.96   | 74     | 100   |
| 2   | A     | 187 | RCY  | O1J-N1V-C1W | 5.63 | 127.75      | 110.96   | 61     | 99    |
| 2   | A     | 110 | RCY  | O1J-N1V-C1W | 5.63 | 127.74      | 110.96   | 18     | 100   |
| 2   | A     | 121 | RCY  | O1J-N1V-C1W | 5.63 | 127.74      | 110.96   | 71     | 100   |
| 2   | A     | 130 | RCY  | C1Y-C1W-N1V | 5.63 | 124.92      | 109.85   | 79     | 1     |
| 2   | A     | 160 | RCY  | O1J-N1V-C1W | 5.63 | 127.74      | 110.96   | 94     | 100   |
| 2   | A     | 130 | RCY  | O1J-N1V-C1W | 5.63 | 127.73      | 110.96   | 50     | 100   |
| 2   | A     | 160 | RCY  | O1J-N1V-C1X | 5.49 | 127.81      | 111.04   | 74     | 100   |
| 2   | A     | 110 | RCY  | O1J-N1V-C1X | 5.48 | 127.76      | 111.04   | 74     | 100   |
| 2   | A     | 138 | RCY  | O1J-N1V-C1X | 5.48 | 127.76      | 111.04   | 34     | 100   |

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| Mol | Chain | Res | Type | Atoms       | Z    | Observed(°) | Ideal(°) | Models |       |
|-----|-------|-----|------|-------------|------|-------------|----------|--------|-------|
|     |       |     |      |             |      |             |          | Worst  | Total |
| 2   | A     | 173 | RCY  | O1J-N1V-C1X | 5.47 | 127.75      | 111.04   | 41     | 100   |
| 2   | A     | 176 | RCY  | O1J-N1V-C1X | 5.47 | 127.75      | 111.04   | 67     | 100   |
| 2   | A     | 150 | RCY  | O1J-N1V-C1X | 5.47 | 127.75      | 111.04   | 66     | 100   |
| 2   | A     | 130 | RCY  | O1J-N1V-C1X | 5.47 | 127.74      | 111.04   | 55     | 100   |
| 2   | A     | 168 | RCY  | O1J-N1V-C1X | 5.47 | 127.74      | 111.04   | 56     | 100   |
| 2   | A     | 121 | RCY  | O1J-N1V-C1X | 5.47 | 127.73      | 111.04   | 9      | 100   |
| 2   | A     | 187 | RCY  | O1J-N1V-C1X | 5.47 | 127.74      | 111.04   | 70     | 99    |
| 2   | A     | 176 | RCY  | O1H-C1Q-C1S | 5.44 | 113.08      | 127.12   | 79     | 7     |
| 2   | A     | 110 | RCY  | C1S-C1Q-N1R | 5.43 | 112.62      | 107.98   | 79     | 2     |
| 2   | A     | 110 | RCY  | C1S-C1L-C1P | 5.32 | 99.79       | 105.24   | 22     | 100   |
| 2   | A     | 160 | RCY  | O1H-C1Q-C1S | 5.25 | 113.57      | 127.12   | 25     | 4     |
| 2   | A     | 121 | RCY  | O1H-C1Q-C1S | 5.12 | 113.88      | 127.12   | 79     | 6     |
| 2   | A     | 168 | RCY  | C1Z-C1W-C1Y | 5.07 | 98.62       | 109.22   | 25     | 2     |
| 2   | A     | 187 | RCY  | O1H-C1Q-C1S | 5.06 | 114.05      | 127.12   | 1      | 1     |
| 2   | A     | 110 | RCY  | C1U-N1R-C1P | 5.05 | 134.91      | 123.65   | 79     | 100   |
| 2   | A     | 150 | RCY  | O1H-C1Q-C1S | 4.97 | 114.28      | 127.12   | 25     | 2     |
| 2   | A     | 121 | RCY  | O1G-C1P-N1R | 4.96 | 130.86      | 124.36   | 13     | 6     |
| 2   | A     | 150 | RCY  | O1G-C1P-N1R | 4.94 | 130.84      | 124.36   | 26     | 2     |
| 2   | A     | 173 | RCY  | O1G-C1P-N1R | 4.93 | 130.82      | 124.36   | 84     | 3     |
| 2   | A     | 187 | RCY  | O1G-C1P-N1R | 4.90 | 130.78      | 124.36   | 1      | 3     |
| 2   | A     | 110 | RCY  | O1H-C1Q-C1S | 4.89 | 114.49      | 127.12   | 79     | 2     |
| 2   | A     | 138 | RCY  | C1M-C1W-N1V | 4.82 | 93.32       | 101.22   | 79     | 100   |
| 2   | A     | 130 | RCY  | C1Y-C1W-C1M | 4.77 | 125.25      | 112.59   | 79     | 1     |
| 2   | A     | 176 | RCY  | C1M-C1W-N1V | 4.73 | 108.97      | 101.22   | 25     | 99    |
| 2   | A     | 187 | RCY  | C1Z-C1W-C1Y | 4.72 | 99.36       | 109.22   | 25     | 1     |
| 2   | A     | 150 | RCY  | O1G-C1P-C1L | 4.66 | 115.09      | 127.12   | 79     | 2     |
| 2   | A     | 173 | RCY  | C1U-N1R-C1Q | 4.62 | 133.96      | 123.65   | 72     | 99    |
| 2   | A     | 176 | RCY  | C1C-C1X-N1V | 4.46 | 124.96      | 109.24   | 25     | 1     |
| 2   | A     | 110 | RCY  | C1L-C1P-N1R | 4.31 | 111.66      | 107.98   | 45     | 100   |
| 2   | A     | 176 | RCY  | C1V-C1X-N1V | 4.27 | 94.19       | 109.24   | 25     | 1     |
| 2   | A     | 130 | RCY  | C1C-C1X-N1V | 4.10 | 94.80       | 109.24   | 79     | 1     |
| 2   | A     | 168 | RCY  | O1H-C1Q-C1S | 4.08 | 116.58      | 127.12   | 25     | 2     |
| 2   | A     | 187 | RCY  | O1G-C1P-C1L | 3.97 | 116.86      | 127.12   | 79     | 2     |
| 2   | A     | 176 | RCY  | C1Z-C1W-N1V | 3.90 | 120.27      | 109.85   | 25     | 1     |
| 2   | A     | 121 | RCY  | C1Z-C1W-C1Y | 3.80 | 101.28      | 109.22   | 79     | 2     |
| 2   | A     | 110 | RCY  | O1H-C1Q-N1R | 3.77 | 129.31      | 124.36   | 25     | 1     |
| 2   | A     | 187 | RCY  | C1V-C1X-N1V | 3.71 | 122.29      | 109.24   | 25     | 1     |
| 2   | A     | 187 | RCY  | C1M-C1W-N1V | 3.68 | 95.20       | 101.22   | 25     | 100   |
| 2   | A     | 138 | RCY  | C1Z-C1W-N1V | 3.64 | 119.59      | 109.85   | 79     | 1     |
| 2   | A     | 173 | RCY  | O1H-C1Q-C1S | 3.57 | 136.33      | 127.12   | 84     | 2     |
| 2   | A     | 187 | RCY  | C1V-C1X-C1C | 3.53 | 99.46       | 110.79   | 25     | 1     |

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| Mol | Chain | Res | Type | Atoms       | Z    | Observed(°) | Ideal(°) | Models |       |
|-----|-------|-----|------|-------------|------|-------------|----------|--------|-------|
|     |       |     |      |             |      |             |          | Worst  | Total |
| 2   | A     | 160 | RCY  | C1Z-C1W-C1Y | 3.52 | 101.86      | 109.22   | 25     | 1     |
| 2   | A     | 160 | RCY  | C1M-C1W-N1V | 3.41 | 106.80      | 101.22   | 79     | 99    |
| 2   | A     | 173 | RCY  | C1V-C1X-C1C | 3.38 | 99.96       | 110.79   | 25     | 2     |
| 2   | A     | 138 | RCY  | C1Z-C1W-C1Y | 3.17 | 102.60      | 109.22   | 25     | 1     |
| 2   | A     | 138 | RCY  | C1Y-C1W-C1M | 3.17 | 121.00      | 112.59   | 79     | 2     |
| 2   | A     | 110 | RCY  | C1V-C1X-C1C | 3.11 | 100.82      | 110.79   | 79     | 1     |
| 2   | A     | 168 | RCY  | O1G-C1P-C1L | 3.09 | 119.13      | 127.12   | 25     | 1     |
| 2   | A     | 168 | RCY  | C1C-C1X-N1V | 3.08 | 98.39       | 109.24   | 25     | 1     |
| 2   | A     | 150 | RCY  | C1Z-C1W-C1Y | 3.06 | 102.84      | 109.22   | 25     | 2     |
| 2   | A     | 121 | RCY  | C1V-C1X-C1C | 2.99 | 101.19      | 110.79   | 25     | 1     |
| 2   | A     | 160 | RCY  | C1V-C1X-C1C | 2.88 | 101.57      | 110.79   | 79     | 1     |
| 2   | A     | 110 | RCY  | C1M-C1W-N1V | 2.84 | 105.87      | 101.22   | 25     | 100   |
| 2   | A     | 150 | RCY  | C1V-C1X-C1C | 2.82 | 101.73      | 110.79   | 79     | 1     |
| 2   | A     | 160 | RCY  | C1Z-C1W-N1V | 2.81 | 102.34      | 109.85   | 79     | 1     |
| 2   | A     | 138 | RCY  | C1V-C1X-C1C | 2.68 | 102.19      | 110.79   | 79     | 2     |
| 2   | A     | 110 | RCY  | O1G-C1P-C1L | 2.62 | 120.34      | 127.12   | 25     | 2     |
| 2   | A     | 173 | RCY  | C1M-C1W-N1V | 2.61 | 105.49      | 101.22   | 25     | 100   |
| 2   | A     | 160 | RCY  | C1C-C1X-N1V | 2.56 | 100.21      | 109.24   | 25     | 1     |
| 2   | A     | 160 | RCY  | C1Y-C1W-N1V | 2.55 | 116.68      | 109.85   | 79     | 1     |
| 2   | A     | 138 | RCY  | C1Y-C1W-N1V | 2.55 | 116.66      | 109.85   | 25     | 1     |
| 2   | A     | 110 | RCY  | C1Z-C1W-N1V | 2.51 | 116.56      | 109.85   | 25     | 1     |
| 2   | A     | 173 | RCY  | O1G-C1P-C1L | 2.51 | 120.65      | 127.12   | 25     | 1     |
| 2   | A     | 121 | RCY  | C1M-C1W-N1V | 2.49 | 105.30      | 101.22   | 25     | 98    |
| 2   | A     | 168 | RCY  | C1Y-C1W-C1M | 2.49 | 119.19      | 112.59   | 25     | 1     |
| 2   | A     | 110 | RCY  | C1U-N1R-C1Q | 2.25 | 128.67      | 123.65   | 31     | 98    |
| 2   | A     | 160 | RCY  | C1Z-C1W-C1M | 2.17 | 118.36      | 112.59   | 79     | 1     |
| 2   | A     | 110 | RCY  | C1Z-C1W-C1Y | 2.14 | 104.75      | 109.22   | 79     | 1     |
| 2   | A     | 150 | RCY  | C1Y-C1W-N1V | 2.12 | 115.52      | 109.85   | 79     | 1     |
| 2   | A     | 150 | RCY  | C1M-C1W-N1V | 2.07 | 104.61      | 101.22   | 78     | 98    |
| 2   | A     | 168 | RCY  | C1M-C1W-N1V | 2.07 | 104.60      | 101.22   | 71     | 98    |
| 2   | A     | 138 | RCY  | C1V-C1X-N1V | 2.02 | 116.34      | 109.24   | 79     | 1     |

All unique chiral outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Atoms | Models (Total) |
|-----|-------|-----|------|-------|----------------|
| 2   | A     | 160 | RCY  | C1U   | 70             |
| 2   | A     | 168 | RCY  | C1U   | 69             |
| 2   | A     | 130 | RCY  | C1U   | 61             |
| 2   | A     | 187 | RCY  | C1U   | 57             |
| 2   | A     | 176 | RCY  | C1U   | 56             |
| 2   | A     | 150 | RCY  | C1U   | 53             |

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| Mol | Chain | Res | Type | Atoms | Models (Total) |
|-----|-------|-----|------|-------|----------------|
| 2   | A     | 138 | RCY  | C1U   | 52             |
| 2   | A     | 173 | RCY  | C1U   | 50             |
| 2   | A     | 110 | RCY  | C1U   | 47             |
| 2   | A     | 121 | RCY  | C1U   | 45             |

All unique torsion outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Atoms           | Models (Total) |
|-----|-------|-----|------|-----------------|----------------|
| 2   | A     | 110 | RCY  | C1X-C1U-N1R-C1Q | 15             |
| 2   | A     | 168 | RCY  | C1X-C1U-N1R-C1Q | 14             |
| 2   | A     | 160 | RCY  | C1X-C1U-N1R-C1P | 13             |
| 2   | A     | 160 | RCY  | C1X-C1U-N1R-C1Q | 12             |
| 2   | A     | 121 | RCY  | C1X-C1U-N1R-C1Q | 11             |
| 2   | A     | 130 | RCY  | C1X-C1U-N1R-C1P | 11             |
| 2   | A     | 176 | RCY  | C1X-C1U-N1R-C1Q | 11             |
| 2   | A     | 130 | RCY  | C1X-C1U-N1R-C1Q | 9              |
| 2   | A     | 150 | RCY  | C1X-C1U-N1R-C1Q | 9              |
| 2   | A     | 187 | RCY  | C1X-C1U-N1R-C1Q | 9              |
| 2   | A     | 138 | RCY  | C1X-C1U-N1R-C1P | 8              |
| 2   | A     | 150 | RCY  | C1X-C1U-N1R-C1P | 8              |
| 2   | A     | 138 | RCY  | C1X-C1U-N1R-C1Q | 7              |
| 2   | A     | 173 | RCY  | C1X-C1U-N1R-C1Q | 7              |
| 2   | A     | 187 | RCY  | C1X-C1U-N1R-C1P | 7              |
| 2   | A     | 110 | RCY  | C1X-C1U-N1R-C1P | 6              |
| 2   | A     | 121 | RCY  | C1X-C1U-N1R-C1P | 6              |
| 2   | A     | 168 | RCY  | C1X-C1U-N1R-C1P | 6              |
| 2   | A     | 173 | RCY  | C1X-C1U-N1R-C1P | 6              |
| 2   | A     | 176 | RCY  | C1X-C1U-N1R-C1P | 6              |

All unique ring outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Atoms               | Models (Total) |
|-----|-------|-----|------|---------------------|----------------|
| 2   | A     | 130 | RCY  | C1L-C1P-C1Q-C1S-N1R | 1              |
| 2   | A     | 130 | RCY  | C1M-C1U-C1W-C1X-N1V | 1              |

## 6.7 Other polymers [i](#)

There are no such molecules in this entry.

## 6.8 Polymer linkage issues

There are no chain breaks in this entry.

## 7 Chemical shift validation i

The completeness of assignment taking into account all chemical shift lists is 72% for the well-defined parts and 66% for the entire structure.

### 7.1 Chemical shift list 1

File name: working\_cs.cif

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

#### 7.1.1 Bookkeeping i

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

|   |     |
|---|-----|
| Total number of shifts                  | 845 |
| Number of shifts mapped to atoms        | 727 |
| Number of unparsed shifts               | 0   |
| Number of shifts with mapping errors    | 118 |
| Number of shifts with mapping warnings  | 0   |
| Number of shift outliers (ShiftChecker) | 0   |

The following assigned chemical shifts were not mapped to the molecules present in the coordinate file.

- No matching atom found in the structure. All 118 occurrences are reported below.

| List ID | Chain | Res | Type | Atom | Shift Data |             |           |
|---------|-------|-----|------|------|------------|-------------|-----------|
|         |       |     |      |      | Value      | Uncertainty | Ambiguity |
| 1       | A     | 10  | ILE  | H    | 8.289      | 0.05        | .         |
| 1       | A     | 10  | ILE  | HA   | 4.166      | 0.05        | .         |
| 1       | A     | 10  | ILE  | HB   | 1.88       | 0.05        | .         |
| 1       | A     | 10  | ILE  | HD11 | 0.859      | 0.05        | .         |
| 1       | A     | 10  | ILE  | HD12 | 0.859      | 0.05        | .         |
| 1       | A     | 10  | ILE  | HD13 | 0.859      | 0.05        | .         |
| 1       | A     | 10  | ILE  | HG12 | 1.214      | 0.05        | .         |
| 1       | A     | 10  | ILE  | HG13 | 1.501      | 0.05        | .         |
| 1       | A     | 10  | ILE  | HG21 | 0.913      | 0.05        | .         |
| 1       | A     | 10  | ILE  | HG22 | 0.913      | 0.05        | .         |
| 1       | A     | 10  | ILE  | HG23 | 0.913      | 0.05        | .         |
| 1       | A     | 10  | ILE  | C    | 176.308    | 0.15        | .         |
| 1       | A     | 10  | ILE  | CA   | 61.279     | 0.15        | .         |
| 1       | A     | 10  | ILE  | CB   | 38.666     | 0.15        | .         |

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| List ID | Chain | Res | Type | Atom | Shift Data |             |           |
|---------|-------|-----|------|------|------------|-------------|-----------|
|         |       |     |      |      | Value      | Uncertainty | Ambiguity |
| 1       | A     | 10  | ILE  | CD1  | 12.714     | 0.15        | .         |
| 1       | A     | 10  | ILE  | CG1  | 27.278     | 0.15        | .         |
| 1       | A     | 10  | ILE  | CG2  | 17.53      | 0.15        | .         |
| 1       | A     | 10  | ILE  | N    | 123.217    | 0.15        | .         |
| 1       | A     | 21  | VAL  | H    | 8.376      | 0.05        | .         |
| 1       | A     | 21  | VAL  | HA   | 4.167      | 0.05        | .         |
| 1       | A     | 21  | VAL  | HB   | 1.962      | 0.05        | .         |
| 1       | A     | 21  | VAL  | HG21 | 0.956      | 0.05        | .         |
| 1       | A     | 21  | VAL  | HG22 | 0.956      | 0.05        | .         |
| 1       | A     | 21  | VAL  | HG23 | 0.956      | 0.05        | .         |
| 1       | A     | 21  | VAL  | C    | 176.368    | 0.15        | .         |
| 1       | A     | 21  | VAL  | CA   | 62.522     | 0.15        | .         |
| 1       | A     | 21  | VAL  | CB   | 32.722     | 0.15        | .         |
| 1       | A     | 21  | VAL  | CG2  | 20.766     | 0.15        | .         |
| 1       | A     | 21  | VAL  | N    | 120.972    | 0.15        | .         |
| 1       | A     | 30  | PHE  | H    | 8.168      | 0.05        | .         |
| 1       | A     | 30  | PHE  | HA   | 4.651      | 0.05        | .         |
| 1       | A     | 30  | PHE  | HB2  | 3.016      | 0.05        | .         |
| 1       | A     | 30  | PHE  | HB3  | 3.112      | 0.05        | .         |
| 1       | A     | 30  | PHE  | HD2  | 7.222      | 0.05        | .         |
| 1       | A     | 30  | PHE  | C    | 175.376    | 0.15        | .         |
| 1       | A     | 30  | PHE  | CA   | 57.554     | 0.15        | .         |
| 1       | A     | 30  | PHE  | CB   | 39.988     | 0.15        | .         |
| 1       | A     | 30  | PHE  | N    | 121.014    | 0.15        | .         |
| 1       | A     | 38  | PHE  | H    | 8.373      | 0.05        | .         |
| 1       | A     | 38  | PHE  | HA   | 4.659      | 0.05        | .         |
| 1       | A     | 38  | PHE  | HB2  | 3.011      | 0.05        | .         |
| 1       | A     | 38  | PHE  | HB3  | 3.101      | 0.05        | .         |
| 1       | A     | 38  | PHE  | C    | 175.417    | 0.15        | .         |
| 1       | A     | 38  | PHE  | CA   | 57.615     | 0.15        | .         |
| 1       | A     | 38  | PHE  | CB   | 40.008     | 0.15        | .         |
| 1       | A     | 38  | PHE  | N    | 122.108    | 0.15        | .         |
| 1       | A     | 50  | PHE  | H    | 8.222      | 0.05        | .         |
| 1       | A     | 50  | PHE  | HA   | 4.632      | 0.05        | .         |
| 1       | A     | 50  | PHE  | HB2  | 3.015      | 0.05        | .         |
| 1       | A     | 50  | PHE  | HB3  | 3.185      | 0.05        | .         |
| 1       | A     | 50  | PHE  | C    | 176.416    | 0.15        | .         |
| 1       | A     | 50  | PHE  | CA   | 58.008     | 0.15        | .         |
| 1       | A     | 50  | PHE  | CB   | 39.865     | 0.15        | .         |
| 1       | A     | 50  | PHE  | N    | 119.885    | 0.15        | .         |
| 1       | A     | 60  | LEU  | H    | 8.124      | 0.05        | .         |

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| List ID | Chain | Res | Type | Atom | Shift Data |             |           |
|---------|-------|-----|------|------|------------|-------------|-----------|
|         |       |     |      |      | Value      | Uncertainty | Ambiguity |
| 1       | A     | 60  | LEU  | HA   | 4.388      | 0.05        | .         |
| 1       | A     | 60  | LEU  | HB2  | 1.648      | 0.05        | .         |
| 1       | A     | 60  | LEU  | HB3  | 1.663      | 0.05        | .         |
| 1       | A     | 60  | LEU  | HD21 | 0.907      | 0.05        | .         |
| 1       | A     | 60  | LEU  | HD22 | 0.907      | 0.05        | .         |
| 1       | A     | 60  | LEU  | HD23 | 0.907      | 0.05        | .         |
| 1       | A     | 60  | LEU  | C    | 177.67     | 0.15        | .         |
| 1       | A     | 60  | LEU  | CA   | 55.332     | 0.15        | .         |
| 1       | A     | 60  | LEU  | CB   | 42.514     | 0.15        | .         |
| 1       | A     | 60  | LEU  | CD2  | 23.502     | 0.15        | .         |
| 1       | A     | 60  | LEU  | CG   | 25.049     | 0.15        | .         |
| 1       | A     | 60  | LEU  | N    | 121.371    | 0.15        | .         |
| 1       | A     | 68  | ALA  | H    | 8.239      | 0.05        | .         |
| 1       | A     | 68  | ALA  | HA   | 4.361      | 0.05        | .         |
| 1       | A     | 68  | ALA  | HB1  | 1.002      | 0.05        | .         |
| 1       | A     | 68  | ALA  | HB2  | 1.002      | 0.05        | .         |
| 1       | A     | 68  | ALA  | HB3  | 1.002      | 0.05        | .         |
| 1       | A     | 68  | ALA  | CA   | 50.582     | 0.15        | .         |
| 1       | A     | 68  | ALA  | CB   | 18.099     | 0.15        | .         |
| 1       | A     | 68  | ALA  | N    | 128.782    | 0.15        | .         |
| 1       | A     | 73  | PHE  | H    | 7.935      | 0.05        | .         |
| 1       | A     | 73  | PHE  | HA   | 4.539      | 0.05        | .         |
| 1       | A     | 73  | PHE  | HB2  | 3.129      | 0.05        | .         |
| 1       | A     | 73  | PHE  | HB3  | 3.023      | 0.05        | .         |
| 1       | A     | 73  | PHE  | HD1  | 7.231      | 0.05        | .         |
| 1       | A     | 73  | PHE  | HD2  | 7.231      | 0.05        | .         |
| 1       | A     | 73  | PHE  | C    | 175.668    | 0.15        | .         |
| 1       | A     | 73  | PHE  | CA   | 57.985     | 0.15        | .         |
| 1       | A     | 73  | PHE  | CB   | 39.356     | 0.15        | .         |
| 1       | A     | 73  | PHE  | N    | 117.759    | 0.15        | .         |
| 1       | A     | 76  | LEU  | H    | 8.166      | 0.05        | .         |
| 1       | A     | 76  | LEU  | HA   | 4.287      | 0.05        | .         |
| 1       | A     | 76  | LEU  | HB2  | 1.568      | 0.05        | .         |
| 1       | A     | 76  | LEU  | HB3  | 1.642      | 0.05        | .         |
| 1       | A     | 76  | LEU  | HD11 | 0.863      | 0.05        | .         |
| 1       | A     | 76  | LEU  | HD12 | 0.863      | 0.05        | .         |
| 1       | A     | 76  | LEU  | HD13 | 0.863      | 0.05        | .         |
| 1       | A     | 76  | LEU  | HD21 | 0.9        | 0.05        | .         |
| 1       | A     | 76  | LEU  | HD22 | 0.9        | 0.05        | .         |
| 1       | A     | 76  | LEU  | HD23 | 0.9        | 0.05        | .         |
| 1       | A     | 76  | LEU  | C    | 177.284    | 0.15        | .         |

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| List ID | Chain | Res | Type | Atom | Shift Data |             |           |
|---------|-------|-----|------|------|------------|-------------|-----------|
|         |       |     |      |      | Value      | Uncertainty | Ambiguity |
| 1       | A     | 76  | LEU  | CA   | 55.995     | 0.15        | .         |
| 1       | A     | 76  | LEU  | CB   | 42.241     | 0.15        | .         |
| 1       | A     | 76  | LEU  | CD1  | 23.706     | 0.15        | .         |
| 1       | A     | 76  | LEU  | CD2  | 24.084     | 0.15        | .         |
| 1       | A     | 76  | LEU  | N    | 122.091    | 0.15        | .         |
| 1       | A     | 87  | ILE  | H    | 7.855      | 0.05        | .         |
| 1       | A     | 87  | ILE  | HA   | 4.426      | 0.05        | .         |
| 1       | A     | 87  | ILE  | HB   | 2.018      | 0.05        | .         |
| 1       | A     | 87  | ILE  | HD11 | 0.848      | 0.05        | .         |
| 1       | A     | 87  | ILE  | HD12 | 0.848      | 0.05        | .         |
| 1       | A     | 87  | ILE  | HD13 | 0.848      | 0.05        | .         |
| 1       | A     | 87  | ILE  | HG12 | 1.433      | 0.05        | .         |
| 1       | A     | 87  | ILE  | HG13 | 1.188      | 0.05        | .         |
| 1       | A     | 87  | ILE  | HG21 | 0.895      | 0.05        | .         |
| 1       | A     | 87  | ILE  | HG22 | 0.895      | 0.05        | .         |
| 1       | A     | 87  | ILE  | HG23 | 0.895      | 0.05        | .         |
| 1       | A     | 87  | ILE  | CA   | 66.943     | 0.15        | .         |
| 1       | A     | 87  | ILE  | CB   | 39.016     | 0.15        | .         |
| 1       | A     | 87  | ILE  | CD1  | 12.969     | 0.15        | .         |
| 1       | A     | 87  | ILE  | CG1  | 27.193     | 0.15        | .         |
| 1       | A     | 87  | ILE  | CG2  | 17.895     | 0.15        | .         |
| 1       | A     | 87  | ILE  | N    | 127.372    | 0.15        | .         |

### 7.1.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

| Nucleus                | # values | Correction $\pm$ precision, ppm | Suggested action        |
|------------------------|----------|---------------------------------|-------------------------|
| $^{13}\text{C}_\alpha$ | 84       | $-0.04 \pm 0.09$                | None needed (< 0.5 ppm) |
| $^{13}\text{C}_\beta$  | 74       | $0.26 \pm 0.13$                 | None needed (< 0.5 ppm) |
| $^{13}\text{C}'$       | 76       | $-0.07 \pm 0.07$                | None needed (< 0.5 ppm) |
| $^{15}\text{N}$        | 76       | $-0.98 \pm 0.36$                | Should be applied       |

### 7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 72%, i.e. 171 atoms were assigned a chemical shift out of a possible 237. 0 out of 2 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

|           | Total         | <sup>1</sup> H | <sup>13</sup> C | <sup>15</sup> N |
|-----------|---------------|----------------|-----------------|-----------------|
| Backbone  | 78/100 (78%)  | 31/41 (76%)    | 32/40 (80%)     | 15/19 (79%)     |
| Sidechain | 91/117 (78%)  | 61/77 (79%)    | 30/39 (77%)     | 0/1 (0%)        |
| Aromatic  | 2/20 (10%)    | 2/10 (20%)     | 0/7 (0%)        | 0/3 (0%)        |
| Overall   | 171/237 (72%) | 94/128 (73%)   | 62/86 (72%)     | 15/23 (65%)     |

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 66%, i.e. 727 atoms were assigned a chemical shift out of a possible 1109. 0 out of 6 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

|           | Total          | <sup>1</sup> H | <sup>13</sup> C | <sup>15</sup> N |
|-----------|----------------|----------------|-----------------|-----------------|
| Backbone  | 350/425 (82%)  | 142/174 (82%)  | 142/174 (82%)   | 66/77 (86%)     |
| Sidechain | 373/647 (58%)  | 228/416 (55%)  | 144/201 (72%)   | 1/30 (3%)       |
| Aromatic  | 4/37 (11%)     | 4/18 (22%)     | 0/14 (0%)       | 0/5 (0%)        |
| Overall   | 727/1109 (66%) | 374/608 (62%)  | 286/389 (74%)   | 67/112 (60%)    |

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

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain A:

