



Full wwPDB NMR Structure Validation Report ⓘ

Jun 6, 2023 – 01:17 pm BST

PDB ID : 5L3M
BMRB ID : 34001
Title : D11 bound [S39_PQ]-IGF-II
Authors : Hexnerova, R.
Deposited on : 2016-05-23

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

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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>.

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

MolProbity : 4.02b-467
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
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.33

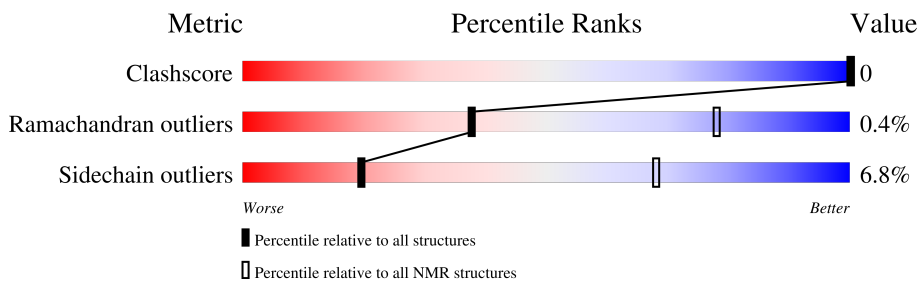
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 82%.

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 ≥ 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	69	

2 Ensemble composition and analysis

This entry contains 20 models. Model 10 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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:7-A:29, A:43-A:64 (45)	0.59	10

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 2 clusters. No single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1047 atoms, of which 511 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Insulin-like growth factor II.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	69	1047	331	511	96	103	6	0

There are 2 discrepancies between the modelled and reference sequences:

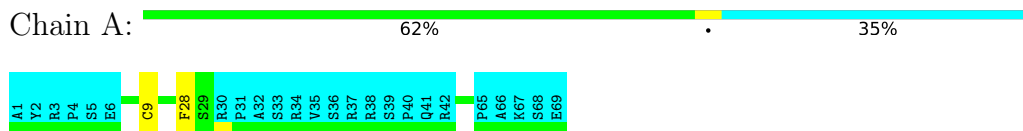
Chain	Residue	Modelled	Actual	Comment	Reference
A	40	PRO	-	insertion	UNP P01344
A	41	GLN	-	insertion	UNP P01344

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: Insulin-like growth factor II

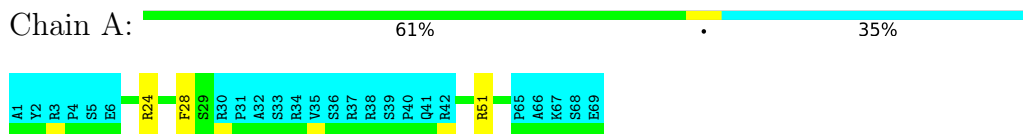


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

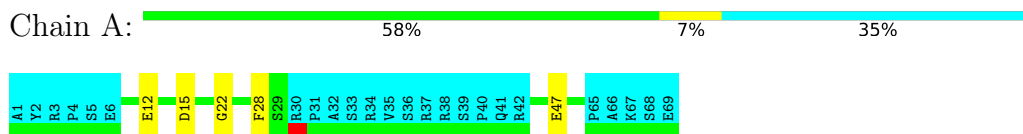
4.2.1 Score per residue for model 1

- Molecule 1: Insulin-like growth factor II



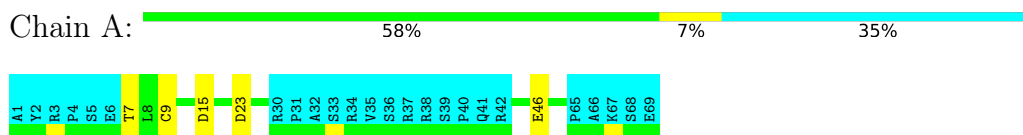
4.2.2 Score per residue for model 2

- Molecule 1: Insulin-like growth factor II



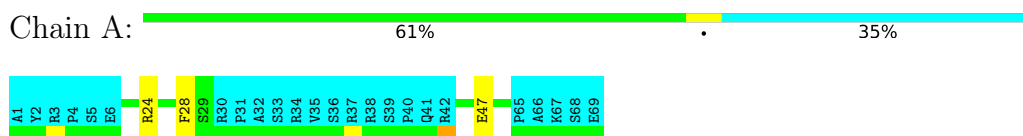
4.2.3 Score per residue for model 3

- Molecule 1: Insulin-like growth factor II



4.2.4 Score per residue for model 4

- Molecule 1: Insulin-like growth factor II



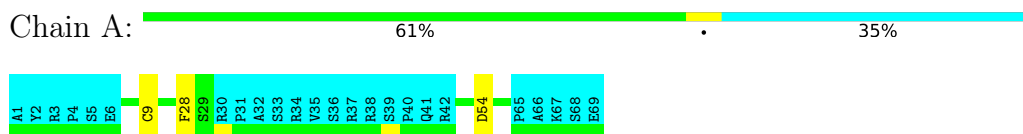
4.2.5 Score per residue for model 5

- Molecule 1: Insulin-like growth factor II



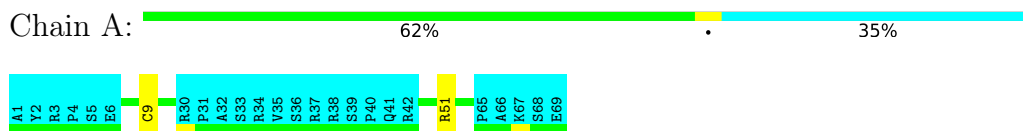
4.2.6 Score per residue for model 6

- Molecule 1: Insulin-like growth factor II



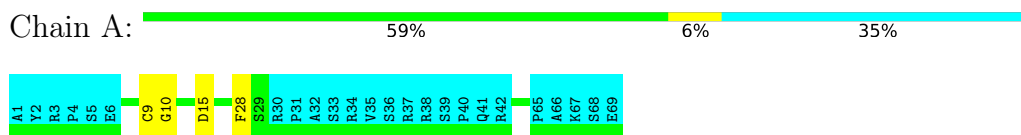
4.2.7 Score per residue for model 7

- Molecule 1: Insulin-like growth factor II



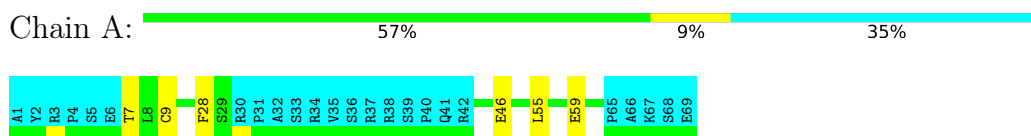
4.2.8 Score per residue for model 8

- Molecule 1: Insulin-like growth factor II



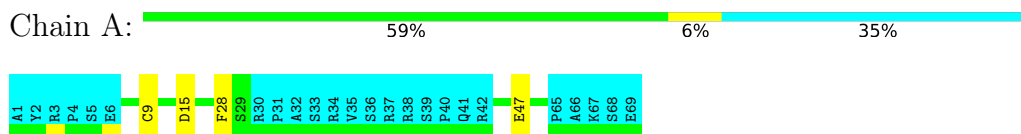
4.2.9 Score per residue for model 9

- Molecule 1: Insulin-like growth factor II



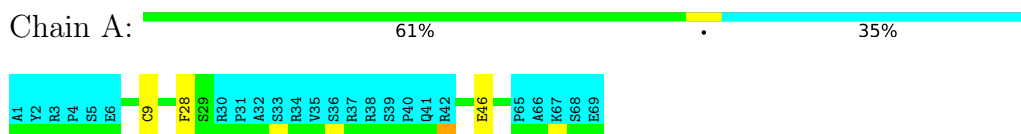
4.2.10 Score per residue for model 10 (medoid)

- Molecule 1: Insulin-like growth factor II



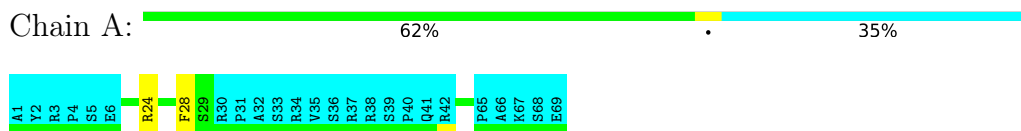
4.2.11 Score per residue for model 11

- Molecule 1: Insulin-like growth factor II



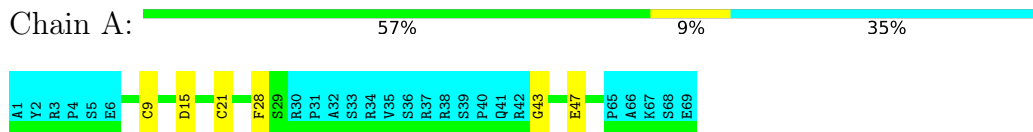
4.2.12 Score per residue for model 12

- Molecule 1: Insulin-like growth factor II



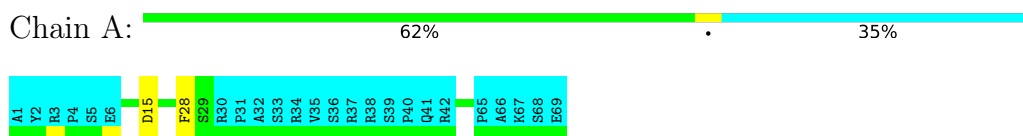
4.2.13 Score per residue for model 13

- Molecule 1: Insulin-like growth factor II



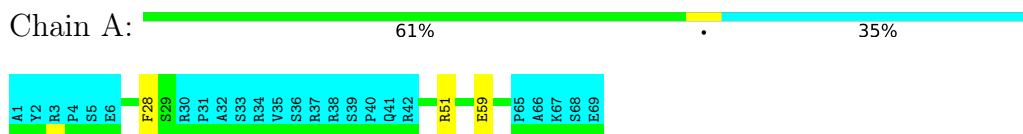
4.2.14 Score per residue for model 14

- Molecule 1: Insulin-like growth factor II



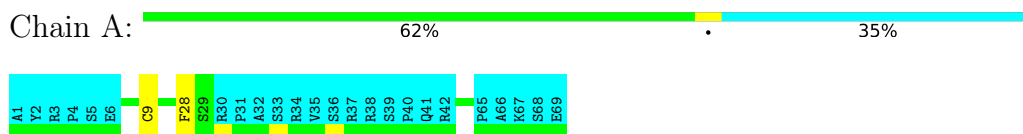
4.2.15 Score per residue for model 15

- Molecule 1: Insulin-like growth factor II



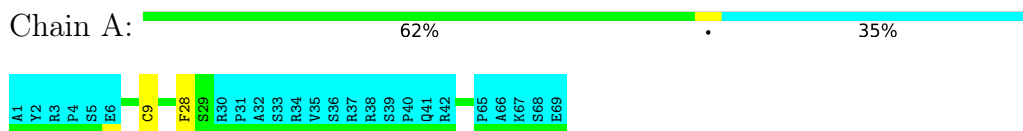
4.2.16 Score per residue for model 16

- Molecule 1: Insulin-like growth factor II



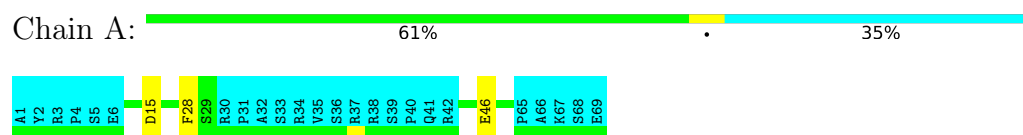
4.2.17 Score per residue for model 17

- Molecule 1: Insulin-like growth factor II



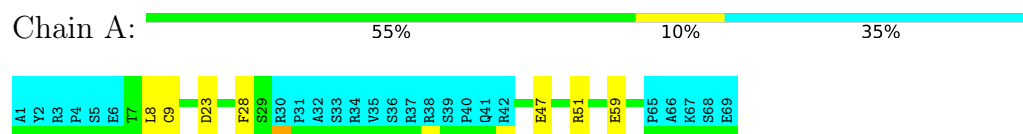
4.2.18 Score per residue for model 18

- Molecule 1: Insulin-like growth factor II



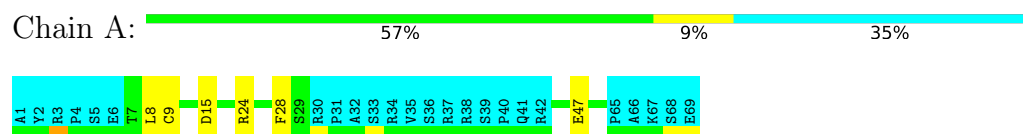
4.2.19 Score per residue for model 19

- Molecule 1: Insulin-like growth factor II



4.2.20 Score per residue for model 20

- Molecule 1: Insulin-like growth factor II



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 20 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
CYANA	structure calculation	
YASARA	refinement	

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	713
Number of shifts mapped to atoms	712
Number of unparsed shifts	0
Number of shifts with mapping errors	1
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	82%

6 Model quality i

6.1 Standard geometry i

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the (average) root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.84±0.09	0±1/348 (0.1± 0.2%)	0.77±0.06	1±1/472 (0.2± 0.2%)
All	All	0.85	8/6960 (0.1%)	0.77	17/9440 (0.2%)

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
1	A	46	GLU	CD-OE1	-5.51	1.19	1.25	3	3
1	A	12	GLU	CD-OE1	-5.18	1.20	1.25	2	1
1	A	47	GLU	CD-OE1	-5.18	1.20	1.25	2	1
1	A	59	GLU	CD-OE1	-5.11	1.20	1.25	19	3

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
1	A	15	ASP	CB-CG-OD1	6.37	124.04	118.30	18	6
1	A	24	ARG	NE-CZ-NH1	6.13	123.36	120.30	1	2
1	A	51	ARG	NE-CZ-NH1	6.00	123.30	120.30	1	4
1	A	23	ASP	CB-CG-OD1	5.97	123.68	118.30	3	1
1	A	15	ASP	CB-CG-OD2	-5.84	113.04	118.30	18	4

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	342	315	315	0±0
All	All	6840	6300	6300	-

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 -.

There are no clashes.

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	45/69 (65%)	43±1 (95±2%)	2±1 (4±2%)	0±0 (0±1%)	38 78
All	All	900/1380 (65%)	859 (95%)	37 (4%)	4 (0%)	38 78

All 4 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	22	GLY	1
1	A	23	ASP	1
1	A	10	GLY	1
1	A	43	GLY	1

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	38/59 (64%)	35±1 (93±4%)	3±1 (7±4%)	19 68

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	760/1180 (64%)	708 (93%)	52 (7%)	19 68

All 13 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	28	PHE	17
1	A	9	CYS	13
1	A	47	GLU	6
1	A	24	ARG	3
1	A	15	ASP	3
1	A	7	THR	2
1	A	8	LEU	2
1	A	27	TYR	1
1	A	54	ASP	1
1	A	55	LEU	1
1	A	46	GLU	1
1	A	21	CYS	1
1	A	23	ASP	1

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](#)

There are no ligands in this entry.

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

The completeness of assignment taking into account all chemical shift lists is 82% for the well-defined parts and 78% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *rk3.star*

7.1.1 Bookkeeping

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	713
Number of shifts mapped to atoms	712
Number of unparsed shifts	0
Number of shifts with mapping errors	1
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

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

- No matching atom found in the structure. All 1 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	1	ALA	H	8.594	0.020	.

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	39	-0.46 ± 0.38	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	63	0.02 ± 0.11	None needed (< 0.5 ppm)
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	65	0.85 ± 0.34	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 82%, i.e. 469 atoms were assigned a chemical shift out of a possible 569. 0 out of 9 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	168/230 (73%)	95/95 (100%)	28/90 (31%)	45/45 (100%)
Sidechain	257/281 (91%)	176/184 (96%)	78/90 (87%)	3/7 (43%)
Aromatic	44/58 (76%)	28/28 (100%)	16/30 (53%)	0/0 (—%)
Overall	469/569 (82%)	299/307 (97%)	122/210 (58%)	48/52 (92%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 78%, i.e. 712 atoms were assigned a chemical shift out of a possible 911. 0 out of 10 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	243/342 (71%)	139/139 (100%)	39/138 (28%)	65/65 (100%)
Sidechain	419/502 (83%)	286/324 (88%)	127/151 (84%)	6/27 (22%)
Aromatic	50/67 (75%)	32/32 (100%)	18/35 (51%)	0/0 (—%)
Overall	712/911 (78%)	457/495 (92%)	184/324 (57%)	71/92 (77%)

7.1.4 Statistically unusual chemical shifts [i](#)

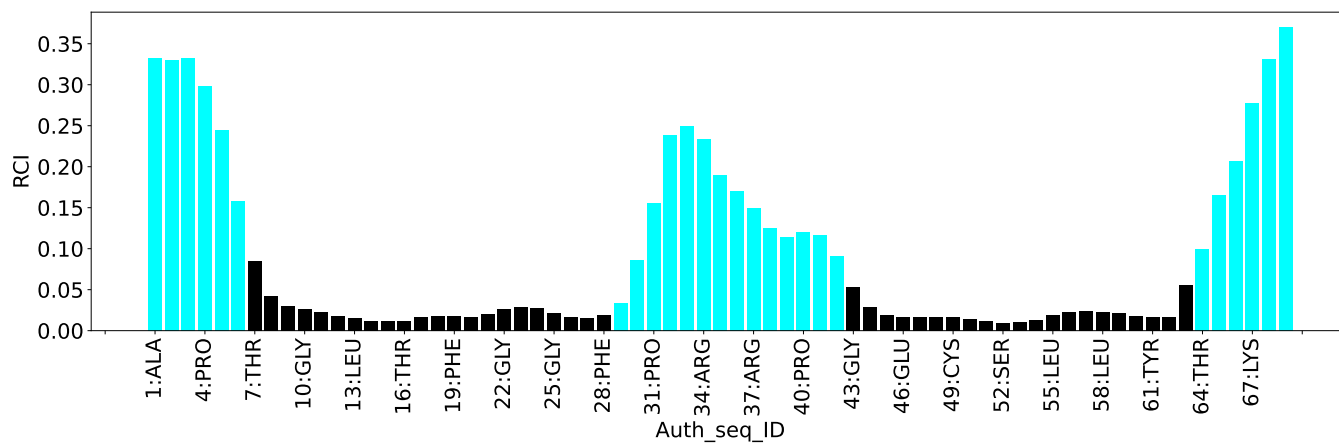
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	16	THR	HG1	5.17	0.08 – 2.19	19.1

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:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	1127
Intra-residue ($ i-j =0$)	325
Sequential ($ i-j =1$)	357
Medium range ($ i-j >1$ and $ i-j <5$)	185
Long range ($ i-j \geq 5$)	251
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	9
Total dihedral-angle restraints	46
Number of unmapped restraints	1
Number of restraints per residue	17.0
Number of long range restraints per residue ¹	3.8

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	5.5	0.2
0.2-0.5 (Medium)	2.1	0.49
>0.5 (Large)	None	None

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

Dihedral-angle violations less than 1° are not included in the calculation.

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	1.2	4.9
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis [i](#)

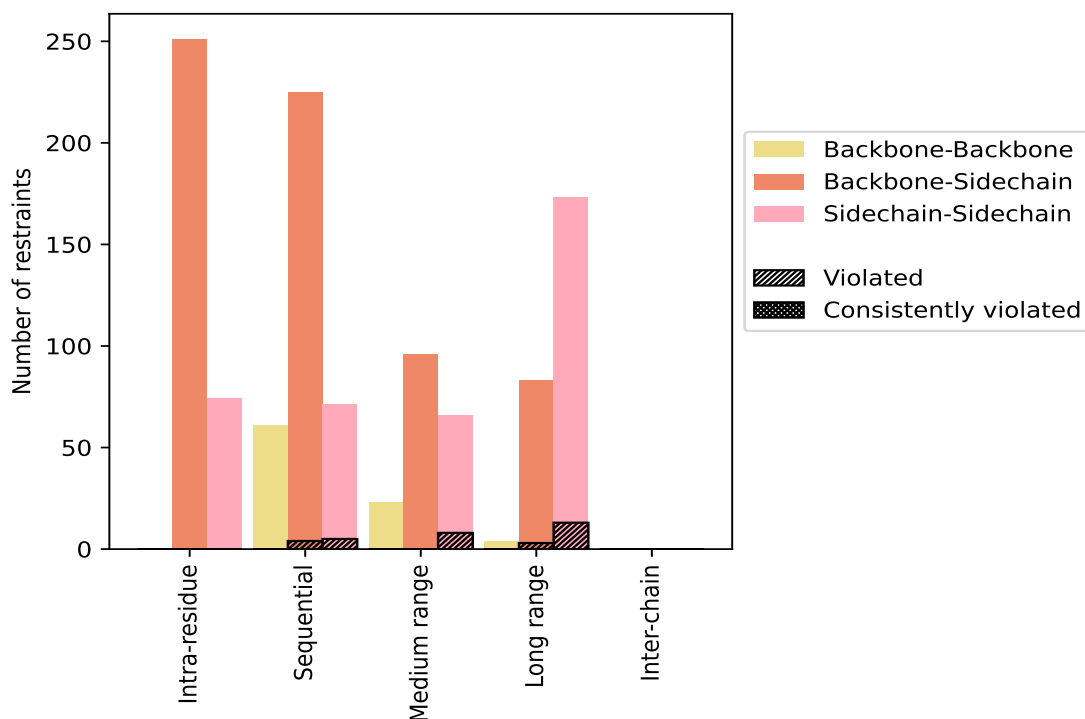
9.1 Summary of distance violations [i](#)

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	325	28.8	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	251	22.3	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	74	6.6	0	0.0	0.0	0	0.0	0.0
Sequential ($i-j =1$)	357	31.7	9	2.5	0.8	0	0.0	0.0
Backbone-Backbone	61	5.4	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	225	20.0	4	1.8	0.4	0	0.0	0.0
Sidechain-Sidechain	71	6.3	5	7.0	0.4	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	185	16.4	8	4.3	0.7	0	0.0	0.0
Backbone-Backbone	23	2.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	96	8.5	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	66	5.9	8	12.1	0.7	0	0.0	0.0
Long range ($i-j \geq 5$)	251	22.3	16	6.4	1.4	0	0.0	0.0
Backbone-Backbone	4	0.4	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	83	7.4	3	3.6	0.3	0	0.0	0.0
Sidechain-Sidechain	164	14.6	13	7.9	1.2	0	0.0	0.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	9	0.8	0	0.0	0.0	0	0.0	0.0
Total	1127	100.0	33	2.9	2.9	0	0.0	0.0
Backbone-Backbone	88	7.8	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	655	58.1	7	1.1	0.6	0	0.0	0.0
Sidechain-Sidechain	384	34.1	26	6.8	2.3	0	0.0	0.0

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	0	3	1	3	0	7	0.14	0.23	0.04	0.13
2	0	5	1	2	0	8	0.18	0.36	0.07	0.17
3	0	5	1	3	0	9	0.17	0.22	0.03	0.16
4	0	4	2	2	0	8	0.18	0.37	0.08	0.16
5	0	4	2	4	0	10	0.16	0.2	0.03	0.16
6	0	2	1	3	0	6	0.18	0.28	0.06	0.18
7	0	1	0	2	0	3	0.15	0.18	0.02	0.16
8	0	2	2	3	0	7	0.16	0.23	0.04	0.15
9	0	3	2	4	0	9	0.19	0.32	0.07	0.16
10	0	5	1	2	0	8	0.18	0.29	0.06	0.16
11	0	2	1	4	0	7	0.19	0.3	0.06	0.15

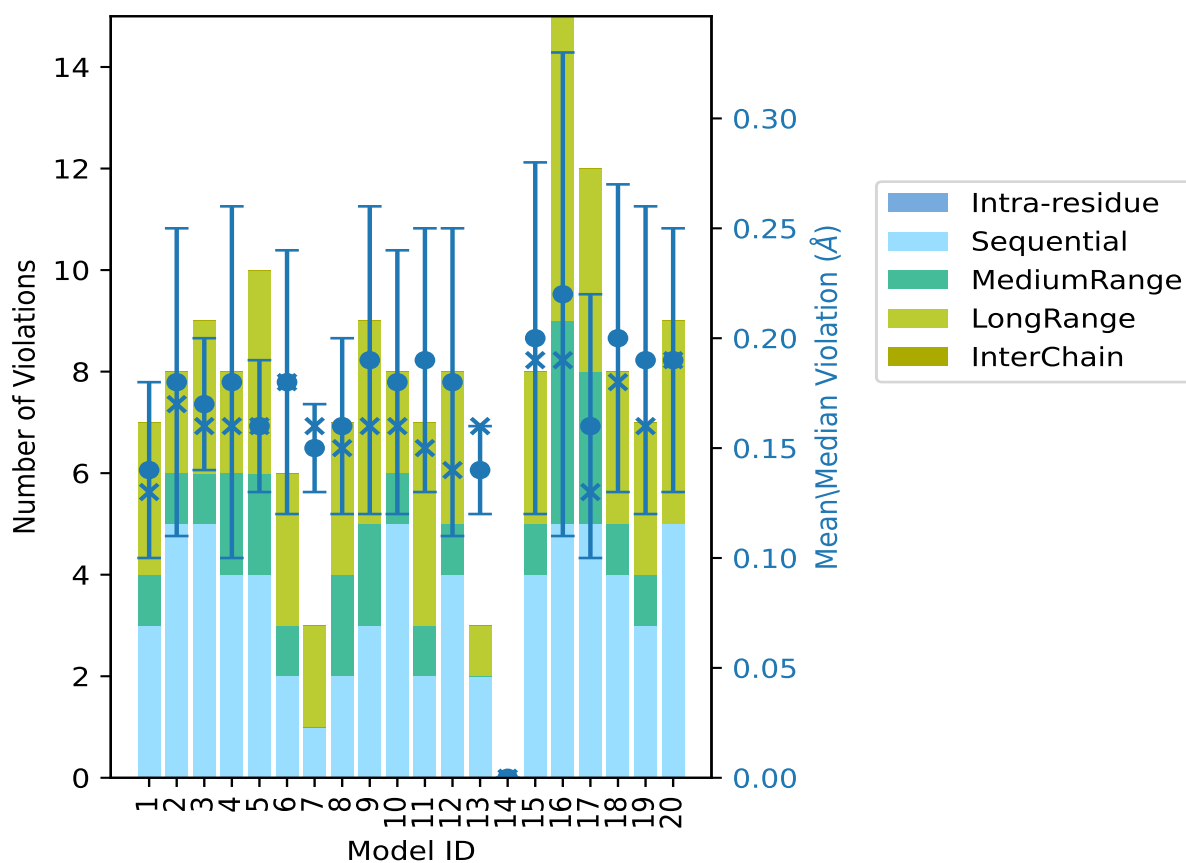
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
12	0	4	1	3	0	8	0.18	0.32	0.07	0.14
13	0	2	0	1	0	3	0.14	0.16	0.02	0.16
14	0	0	0	0	0	0	0.0	0.0	0.0	0.0
15	0	4	1	3	0	8	0.2	0.36	0.08	0.19
16	0	5	4	6	0	15	0.22	0.49	0.11	0.19
17	0	5	3	4	0	12	0.16	0.26	0.06	0.13
18	0	4	1	3	0	8	0.2	0.31	0.07	0.18
19	0	3	1	3	0	7	0.19	0.28	0.07	0.16
20	0	5	0	4	0	9	0.19	0.29	0.06	0.19

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

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



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

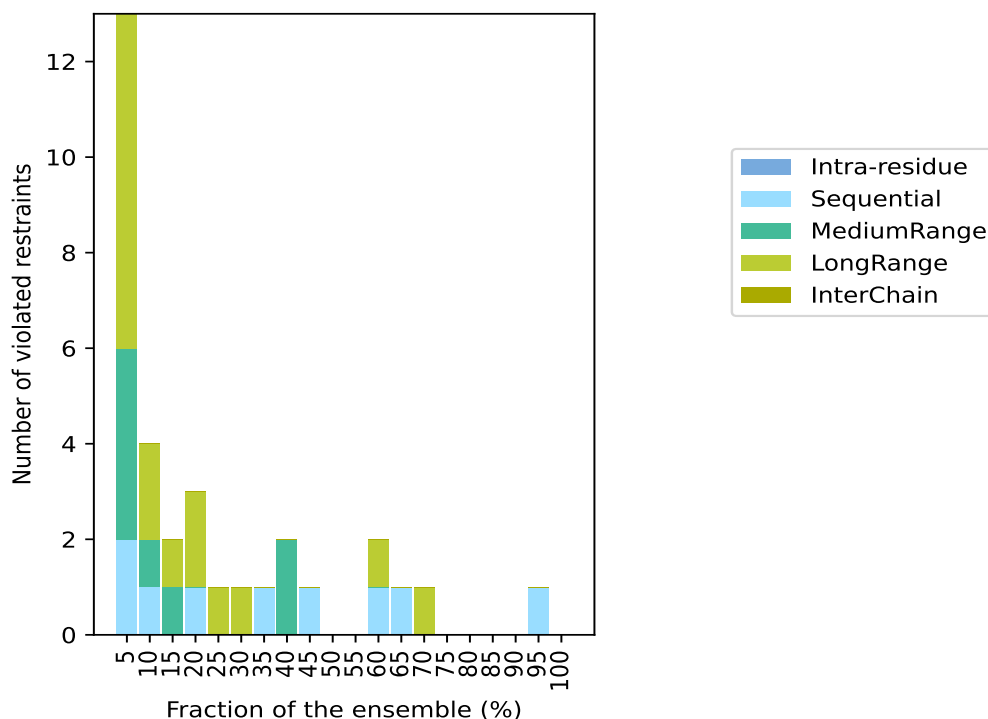
9.3 Distance violation statistics for the ensemble

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1085(IR:325, SQ:348, MR:177, LR:235, IC:0) restraints are not violated in the ensemble.

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

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

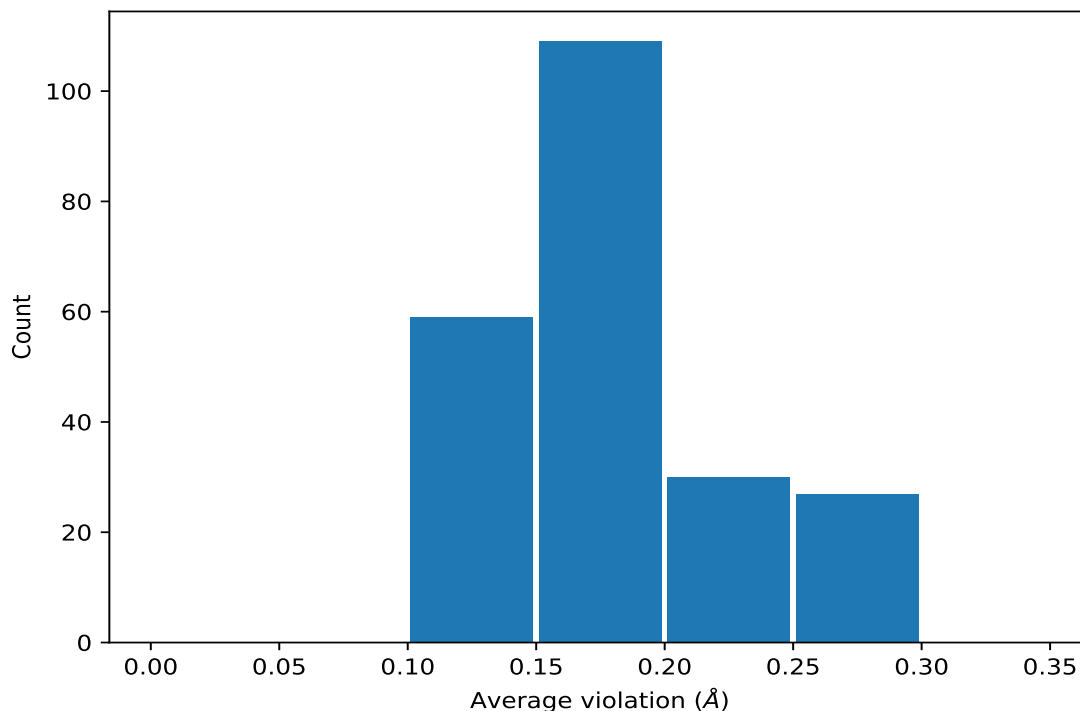
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	19	0.26	0.05	0.26
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	19	0.26	0.05	0.26
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	19	0.26	0.05	0.26
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	19	0.26	0.05	0.26
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	19	0.26	0.05	0.26
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	19	0.26	0.05	0.26
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	19	0.26	0.05	0.26
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	19	0.26	0.05	0.26
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	19	0.26	0.05	0.26
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD11	14	0.17	0.04	0.16
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD12	14	0.17	0.04	0.16
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD13	14	0.17	0.04	0.16
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD11	14	0.17	0.04	0.16
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD12	14	0.17	0.04	0.16
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD13	14	0.17	0.04	0.16
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD11	14	0.17	0.04	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD12	14	0.17	0.04	0.16
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD13	14	0.17	0.04	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD11	13	0.24	0.09	0.22
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD12	13	0.24	0.09	0.22
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD13	13	0.24	0.09	0.22
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD21	13	0.24	0.09	0.22
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD22	13	0.24	0.09	0.22
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD23	13	0.24	0.09	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD11	13	0.24	0.09	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD12	13	0.24	0.09	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD13	13	0.24	0.09	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD21	13	0.24	0.09	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD22	13	0.24	0.09	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD23	13	0.24	0.09	0.22
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG21	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG22	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG23	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG21	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG22	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG23	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG21	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG22	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG23	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG21	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG22	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG23	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG21	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG22	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG23	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG21	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG22	12	0.19	0.05	0.18
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG23	12	0.19	0.05	0.18
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD2	12	0.13	0.01	0.13
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD3	12	0.13	0.01	0.13
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG2	9	0.15	0.04	0.13
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG3	9	0.15	0.04	0.13
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG2	9	0.15	0.04	0.13
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG3	9	0.15	0.04	0.13
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG11	8	0.15	0.04	0.14
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG12	8	0.15	0.04	0.14
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG13	8	0.15	0.04	0.14
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG21	8	0.15	0.04	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG22	8	0.15	0.04	0.14
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG23	8	0.15	0.04	0.14
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG11	8	0.15	0.04	0.14
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG12	8	0.15	0.04	0.14
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG13	8	0.15	0.04	0.14
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG21	8	0.15	0.04	0.14
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG22	8	0.15	0.04	0.14
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG23	8	0.15	0.04	0.14
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG11	8	0.15	0.04	0.14
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG12	8	0.15	0.04	0.14
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG13	8	0.15	0.04	0.14
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG21	8	0.15	0.04	0.14
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG22	8	0.15	0.04	0.14
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG23	8	0.15	0.04	0.14
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG21	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG22	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG23	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG21	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG22	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG23	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG21	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG22	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG23	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG21	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG22	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG23	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG21	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG22	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG23	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG21	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG22	8	0.14	0.02	0.15
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG23	8	0.14	0.02	0.15
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG11	7	0.27	0.08	0.31
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG12	7	0.27	0.08	0.31
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG13	7	0.27	0.08	0.31
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG21	7	0.27	0.08	0.31
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG22	7	0.27	0.08	0.31
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG23	7	0.27	0.08	0.31
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG11	7	0.27	0.08	0.31
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG12	7	0.27	0.08	0.31
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG13	7	0.27	0.08	0.31
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG21	7	0.27	0.08	0.31

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG22	7	0.27	0.08	0.31
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG23	7	0.27	0.08	0.31
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG11	7	0.27	0.08	0.31
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG12	7	0.27	0.08	0.31
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG13	7	0.27	0.08	0.31
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG21	7	0.27	0.08	0.31
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG22	7	0.27	0.08	0.31
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG23	7	0.27	0.08	0.31
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD11	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD12	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD13	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD21	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD22	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD23	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD11	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD12	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD13	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD21	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD22	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD23	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD11	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD12	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD13	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD21	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD22	6	0.2	0.07	0.19
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD23	6	0.2	0.07	0.19
(1,484)	1:A:13:LEU:HD11	1:A:28:PHE:HD1	5	0.13	0.01	0.13
(1,484)	1:A:13:LEU:HD11	1:A:28:PHE:HD2	5	0.13	0.01	0.13
(1,484)	1:A:13:LEU:HD12	1:A:28:PHE:HD1	5	0.13	0.01	0.13
(1,484)	1:A:13:LEU:HD12	1:A:28:PHE:HD2	5	0.13	0.01	0.13
(1,484)	1:A:13:LEU:HD13	1:A:28:PHE:HD1	5	0.13	0.01	0.13
(1,484)	1:A:13:LEU:HD13	1:A:28:PHE:HD2	5	0.13	0.01	0.13
(1,1052)	1:A:45:VAL:HG11	1:A:51:ARG:H	4	0.16	0.03	0.16
(1,1052)	1:A:45:VAL:HG12	1:A:51:ARG:H	4	0.16	0.03	0.16
(1,1052)	1:A:45:VAL:HG13	1:A:51:ARG:H	4	0.16	0.03	0.16
(1,1052)	1:A:45:VAL:HG21	1:A:51:ARG:H	4	0.16	0.03	0.16
(1,1052)	1:A:45:VAL:HG22	1:A:51:ARG:H	4	0.16	0.03	0.16
(1,1052)	1:A:45:VAL:HG23	1:A:51:ARG:H	4	0.16	0.03	0.16
(1,888)	1:A:13:LEU:HD11	1:A:28:PHE:HD1	4	0.16	0.01	0.15
(1,888)	1:A:13:LEU:HD11	1:A:28:PHE:HD2	4	0.16	0.01	0.15
(1,888)	1:A:13:LEU:HD12	1:A:28:PHE:HD1	4	0.16	0.01	0.15
(1,888)	1:A:13:LEU:HD12	1:A:28:PHE:HD2	4	0.16	0.01	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,888)	1:A:13:LEU:HD13	1:A:28:PHE:HD1	4	0.16	0.01	0.15
(1,888)	1:A:13:LEU:HD13	1:A:28:PHE:HD2	4	0.16	0.01	0.15
(1,888)	1:A:13:LEU:HD21	1:A:28:PHE:HD1	4	0.16	0.01	0.15
(1,888)	1:A:13:LEU:HD21	1:A:28:PHE:HD2	4	0.16	0.01	0.15
(1,888)	1:A:13:LEU:HD22	1:A:28:PHE:HD1	4	0.16	0.01	0.15
(1,888)	1:A:13:LEU:HD22	1:A:28:PHE:HD2	4	0.16	0.01	0.15
(1,888)	1:A:13:LEU:HD23	1:A:28:PHE:HD1	4	0.16	0.01	0.15
(1,888)	1:A:13:LEU:HD23	1:A:28:PHE:HD2	4	0.16	0.01	0.15
(1,838)	1:A:8:LEU:HD11	1:A:9:CYS:H	4	0.15	0.03	0.15
(1,838)	1:A:8:LEU:HD12	1:A:9:CYS:H	4	0.15	0.03	0.15
(1,838)	1:A:8:LEU:HD13	1:A:9:CYS:H	4	0.15	0.03	0.15
(1,838)	1:A:8:LEU:HD21	1:A:9:CYS:H	4	0.15	0.03	0.15
(1,838)	1:A:8:LEU:HD22	1:A:9:CYS:H	4	0.15	0.03	0.15
(1,838)	1:A:8:LEU:HD23	1:A:9:CYS:H	4	0.15	0.03	0.15
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD11	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD12	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD13	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD21	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD22	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD23	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD11	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD12	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD13	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD21	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD22	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD23	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD11	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD12	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD13	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD21	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD22	3	0.16	0.03	0.17
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD23	3	0.16	0.03	0.17
(1,332)	1:A:35:VAL:HG11	1:A:37:ARG:HG2	3	0.11	0.0	0.11
(1,332)	1:A:35:VAL:HG11	1:A:37:ARG:HG3	3	0.11	0.0	0.11
(1,332)	1:A:35:VAL:HG12	1:A:37:ARG:HG2	3	0.11	0.0	0.11
(1,332)	1:A:35:VAL:HG12	1:A:37:ARG:HG3	3	0.11	0.0	0.11
(1,332)	1:A:35:VAL:HG13	1:A:37:ARG:HG2	3	0.11	0.0	0.11
(1,332)	1:A:35:VAL:HG13	1:A:37:ARG:HG3	3	0.11	0.0	0.11
(1,461)	1:A:57:LEU:HD11	1:A:61:TYR:HD1	2	0.18	0.06	0.18
(1,461)	1:A:57:LEU:HD11	1:A:61:TYR:HD2	2	0.18	0.06	0.18
(1,461)	1:A:57:LEU:HD12	1:A:61:TYR:HD1	2	0.18	0.06	0.18
(1,461)	1:A:57:LEU:HD12	1:A:61:TYR:HD2	2	0.18	0.06	0.18

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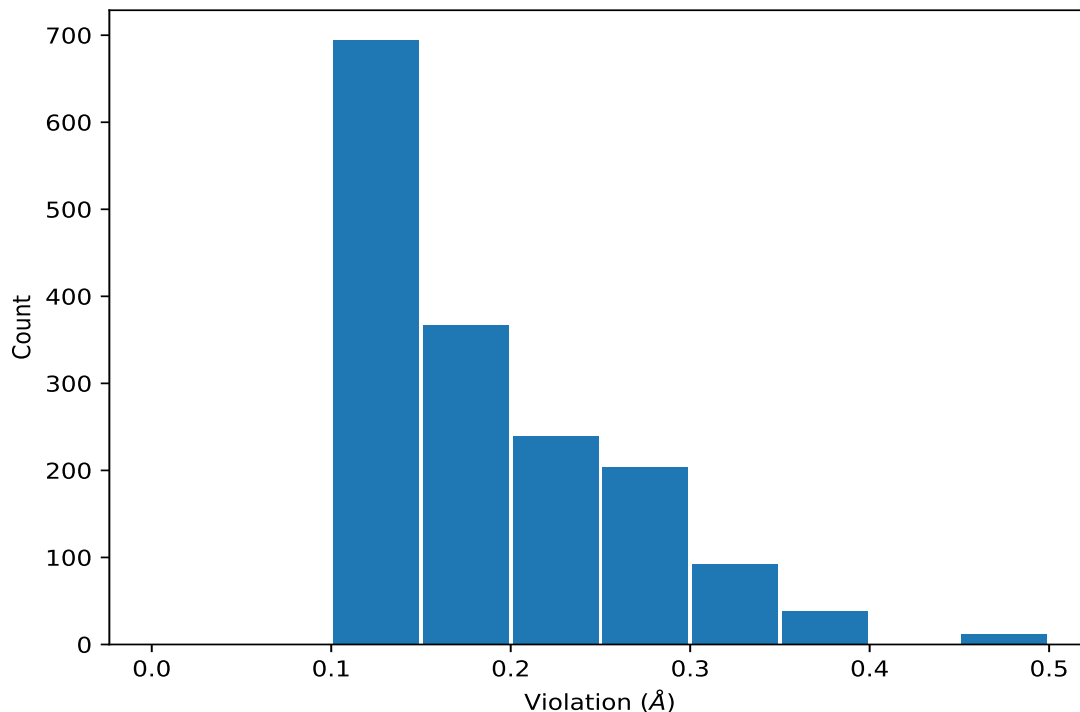
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,461)	1:A:57:LEU:HD13	1:A:61:TYR:HD1	2	0.18	0.06	0.18
(1,461)	1:A:57:LEU:HD13	1:A:61:TYR:HD2	2	0.18	0.06	0.18
(1,461)	1:A:57:LEU:HD21	1:A:61:TYR:HD1	2	0.18	0.06	0.18
(1,461)	1:A:57:LEU:HD21	1:A:61:TYR:HD2	2	0.18	0.06	0.18
(1,461)	1:A:57:LEU:HD22	1:A:61:TYR:HD1	2	0.18	0.06	0.18
(1,461)	1:A:57:LEU:HD22	1:A:61:TYR:HD2	2	0.18	0.06	0.18
(1,461)	1:A:57:LEU:HD23	1:A:61:TYR:HD1	2	0.18	0.06	0.18
(1,461)	1:A:57:LEU:HD23	1:A:61:TYR:HD2	2	0.18	0.06	0.18
(1,995)	1:A:32:ALA:HB1	1:A:33:SER:HB2	2	0.16	0.02	0.16
(1,995)	1:A:32:ALA:HB1	1:A:33:SER:HB3	2	0.16	0.02	0.16
(1,995)	1:A:32:ALA:HB2	1:A:33:SER:HB2	2	0.16	0.02	0.16
(1,995)	1:A:32:ALA:HB2	1:A:33:SER:HB3	2	0.16	0.02	0.16
(1,995)	1:A:32:ALA:HB3	1:A:33:SER:HB2	2	0.16	0.02	0.16
(1,995)	1:A:32:ALA:HB3	1:A:33:SER:HB3	2	0.16	0.02	0.16
(1,853)	1:A:8:LEU:HD11	1:A:17:LEU:HD11	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD11	1:A:17:LEU:HD12	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD11	1:A:17:LEU:HD13	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD12	1:A:17:LEU:HD11	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD12	1:A:17:LEU:HD12	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD12	1:A:17:LEU:HD13	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD13	1:A:17:LEU:HD11	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD13	1:A:17:LEU:HD12	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD13	1:A:17:LEU:HD13	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD21	1:A:17:LEU:HD11	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD21	1:A:17:LEU:HD12	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD21	1:A:17:LEU:HD13	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD22	1:A:17:LEU:HD11	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD22	1:A:17:LEU:HD12	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD22	1:A:17:LEU:HD13	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD23	1:A:17:LEU:HD11	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD23	1:A:17:LEU:HD12	2	0.13	0.02	0.13
(1,853)	1:A:8:LEU:HD23	1:A:17:LEU:HD13	2	0.13	0.02	0.13
(1,492)	1:A:17:LEU:HD11	1:A:58:LEU:HD11	2	0.12	0.01	0.12
(1,492)	1:A:17:LEU:HD11	1:A:58:LEU:HD12	2	0.12	0.01	0.12
(1,492)	1:A:17:LEU:HD11	1:A:58:LEU:HD13	2	0.12	0.01	0.12
(1,492)	1:A:17:LEU:HD12	1:A:58:LEU:HD11	2	0.12	0.01	0.12
(1,492)	1:A:17:LEU:HD12	1:A:58:LEU:HD12	2	0.12	0.01	0.12
(1,492)	1:A:17:LEU:HD12	1:A:58:LEU:HD13	2	0.12	0.01	0.12
(1,492)	1:A:17:LEU:HD13	1:A:58:LEU:HD11	2	0.12	0.01	0.12
(1,492)	1:A:17:LEU:HD13	1:A:58:LEU:HD12	2	0.12	0.01	0.12
(1,492)	1:A:17:LEU:HD13	1:A:58:LEU:HD13	2	0.12	0.01	0.12

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD11	16	0.49
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD12	16	0.49
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD13	16	0.49
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD21	16	0.49
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD22	16	0.49
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD23	16	0.49
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD11	16	0.49
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD12	16	0.49
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD13	16	0.49
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD21	16	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD22	16	0.49
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD23	16	0.49
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG11	4	0.37
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG12	4	0.37
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG13	4	0.37
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG21	4	0.37
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG22	4	0.37
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG23	4	0.37
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG11	4	0.37
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG12	4	0.37
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG13	4	0.37
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG21	4	0.37
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG22	4	0.37
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG23	4	0.37
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG11	4	0.37
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG12	4	0.37
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG13	4	0.37
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG21	4	0.37
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG22	4	0.37
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG23	4	0.37
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD11	15	0.36
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD12	15	0.36
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD13	15	0.36
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD21	15	0.36
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD22	15	0.36
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD23	15	0.36
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD11	15	0.36
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD12	15	0.36
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD13	15	0.36
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD21	15	0.36
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD22	15	0.36
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD23	15	0.36
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	2	0.36
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	2	0.36
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	2	0.36
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	2	0.36
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	2	0.36
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	2	0.36
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	2	0.36
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	2	0.36
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	2	0.36
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD11	16	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD12	16	0.33
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD13	16	0.33
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD21	16	0.33
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD22	16	0.33
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD23	16	0.33
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD11	16	0.33
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD12	16	0.33
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD13	16	0.33
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD21	16	0.33
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD22	16	0.33
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD23	16	0.33
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD11	16	0.33
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD12	16	0.33
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD13	16	0.33
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD21	16	0.33
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD22	16	0.33
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD23	16	0.33
(1,983)	1:A:28:PHE:HB2	1:A:45:VAL:HG11	16	0.32
(1,983)	1:A:28:PHE:HB2	1:A:45:VAL:HG12	16	0.32
(1,983)	1:A:28:PHE:HB2	1:A:45:VAL:HG13	16	0.32
(1,983)	1:A:28:PHE:HB2	1:A:45:VAL:HG21	16	0.32
(1,983)	1:A:28:PHE:HB2	1:A:45:VAL:HG22	16	0.32
(1,983)	1:A:28:PHE:HB2	1:A:45:VAL:HG23	16	0.32
(1,983)	1:A:28:PHE:HB3	1:A:45:VAL:HG11	16	0.32
(1,983)	1:A:28:PHE:HB3	1:A:45:VAL:HG12	16	0.32
(1,983)	1:A:28:PHE:HB3	1:A:45:VAL:HG13	16	0.32
(1,983)	1:A:28:PHE:HB3	1:A:45:VAL:HG21	16	0.32
(1,983)	1:A:28:PHE:HB3	1:A:45:VAL:HG22	16	0.32
(1,983)	1:A:28:PHE:HB3	1:A:45:VAL:HG23	16	0.32
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	16	0.32
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	16	0.32
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	16	0.32
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	16	0.32
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	16	0.32
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	16	0.32
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	16	0.32
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	16	0.32
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	16	0.32
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG11	9	0.32
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG12	9	0.32
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG13	9	0.32
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG21	9	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG22	9	0.32
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG23	9	0.32
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG11	9	0.32
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG12	9	0.32
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG13	9	0.32
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG21	9	0.32
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG22	9	0.32
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG23	9	0.32
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG11	9	0.32
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG12	9	0.32
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG13	9	0.32
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG21	9	0.32
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG22	9	0.32
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG23	9	0.32
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG11	12	0.32
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG12	12	0.32
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG13	12	0.32
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG21	12	0.32
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG22	12	0.32
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG23	12	0.32
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG11	12	0.32
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG12	12	0.32
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG13	12	0.32
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG21	12	0.32
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG22	12	0.32
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG23	12	0.32
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG11	12	0.32
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG12	12	0.32
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG13	12	0.32
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG21	12	0.32
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG22	12	0.32
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG23	12	0.32
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG11	18	0.31
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG12	18	0.31
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG13	18	0.31
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG21	18	0.31
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG22	18	0.31
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG23	18	0.31
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG11	18	0.31
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG12	18	0.31
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG13	18	0.31
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG21	18	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG22	18	0.31
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG23	18	0.31
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG11	18	0.31
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG12	18	0.31
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG13	18	0.31
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG21	18	0.31
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG22	18	0.31
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG23	18	0.31
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	9	0.3
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	9	0.3
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	9	0.3
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	9	0.3
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	9	0.3
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	9	0.3
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	9	0.3
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	9	0.3
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	9	0.3
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	11	0.3
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	11	0.3
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	11	0.3
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	11	0.3
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	11	0.3
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	11	0.3
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	11	0.3
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	11	0.3
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	11	0.3
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	18	0.3
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	18	0.3
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	18	0.3
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	18	0.3
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	18	0.3
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	18	0.3
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	18	0.3
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	18	0.3
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	18	0.3
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD11	20	0.29
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD12	20	0.29
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD13	20	0.29
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD21	20	0.29
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD22	20	0.29
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD23	20	0.29
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD11	20	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD12	20	0.29
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD13	20	0.29
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD21	20	0.29
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD22	20	0.29
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD23	20	0.29
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	10	0.29
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	10	0.29
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	10	0.29
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	10	0.29
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	10	0.29
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	10	0.29
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	10	0.29
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	10	0.29
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	10	0.29
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	20	0.29
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	20	0.29
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	20	0.29
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	20	0.29
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	20	0.29
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	20	0.29
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	20	0.29
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	20	0.29
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	20	0.29
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	6	0.28
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	6	0.28
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	6	0.28
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	6	0.28
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	6	0.28
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	6	0.28
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	6	0.28
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	6	0.28
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	6	0.28
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	19	0.28
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	19	0.28
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	19	0.28
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	19	0.28
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	19	0.28
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	19	0.28
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	19	0.28
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	19	0.28
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	19	0.28
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG21	19	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG22	19	0.27
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG23	19	0.27
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG21	19	0.27
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG22	19	0.27
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG23	19	0.27
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG21	19	0.27
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG22	19	0.27
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG23	19	0.27
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG21	19	0.27
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG22	19	0.27
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG23	19	0.27
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG21	19	0.27
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG22	19	0.27
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG23	19	0.27
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG21	19	0.27
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG22	19	0.27
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG23	19	0.27
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG21	11	0.26
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG22	11	0.26
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG23	11	0.26
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG21	11	0.26
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG22	11	0.26
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG23	11	0.26
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG21	11	0.26
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG22	11	0.26
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG23	11	0.26
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG21	11	0.26
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG22	11	0.26
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG23	11	0.26
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG21	11	0.26
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG22	11	0.26
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG23	11	0.26
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG21	11	0.26
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG22	11	0.26
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG23	11	0.26
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	15	0.26
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	15	0.26
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	15	0.26
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	15	0.26
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	15	0.26
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	15	0.26
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	15	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	15	0.26
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	15	0.26
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	17	0.26
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	17	0.26
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	17	0.26
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	17	0.26
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	17	0.26
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	17	0.26
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	17	0.26
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	17	0.26
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	17	0.26
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG11	10	0.26
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG12	10	0.26
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG13	10	0.26
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG21	10	0.26
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG22	10	0.26
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG23	10	0.26
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG11	10	0.26
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG12	10	0.26
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG13	10	0.26
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG21	10	0.26
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG22	10	0.26
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG23	10	0.26
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG11	10	0.26
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG12	10	0.26
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG13	10	0.26
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG21	10	0.26
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG22	10	0.26
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG23	10	0.26
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG21	15	0.25
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG22	15	0.25
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG23	15	0.25
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG21	15	0.25
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG22	15	0.25
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG23	15	0.25
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG21	15	0.25
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG22	15	0.25
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG23	15	0.25
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG21	15	0.25
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG22	15	0.25
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG23	15	0.25
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG21	15	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG22	15	0.25
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG23	15	0.25
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG21	15	0.25
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG22	15	0.25
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG23	15	0.25
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG21	17	0.25
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG22	17	0.25
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG23	17	0.25
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG21	17	0.25
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG22	17	0.25
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG23	17	0.25
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG21	17	0.25
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG22	17	0.25
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG23	17	0.25
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG21	17	0.25
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG22	17	0.25
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG23	17	0.25
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG21	17	0.25
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG22	17	0.25
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG23	17	0.25
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG21	17	0.25
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG22	17	0.25
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG23	17	0.25
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD11	19	0.25
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD12	19	0.25
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD13	19	0.25
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD21	19	0.25
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD22	19	0.25
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD23	19	0.25
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD11	19	0.25
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD12	19	0.25
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD13	19	0.25
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD21	19	0.25
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD22	19	0.25
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD23	19	0.25
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	12	0.25
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	12	0.25
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	12	0.25
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	12	0.25
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	12	0.25
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	12	0.25
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	12	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	12	0.25
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	12	0.25
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD11	18	0.24
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD12	18	0.24
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD13	18	0.24
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD21	18	0.24
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD22	18	0.24
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD23	18	0.24
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD11	18	0.24
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD12	18	0.24
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD13	18	0.24
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD21	18	0.24
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD22	18	0.24
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD23	18	0.24
(1,461)	1:A:57:LEU:HD11	1:A:61:TYR:HD1	16	0.24
(1,461)	1:A:57:LEU:HD11	1:A:61:TYR:HD2	16	0.24
(1,461)	1:A:57:LEU:HD12	1:A:61:TYR:HD1	16	0.24
(1,461)	1:A:57:LEU:HD12	1:A:61:TYR:HD2	16	0.24
(1,461)	1:A:57:LEU:HD13	1:A:61:TYR:HD1	16	0.24
(1,461)	1:A:57:LEU:HD13	1:A:61:TYR:HD2	16	0.24
(1,461)	1:A:57:LEU:HD21	1:A:61:TYR:HD1	16	0.24
(1,461)	1:A:57:LEU:HD21	1:A:61:TYR:HD2	16	0.24
(1,461)	1:A:57:LEU:HD22	1:A:61:TYR:HD1	16	0.24
(1,461)	1:A:57:LEU:HD22	1:A:61:TYR:HD2	16	0.24
(1,461)	1:A:57:LEU:HD23	1:A:61:TYR:HD1	16	0.24
(1,461)	1:A:57:LEU:HD23	1:A:61:TYR:HD2	16	0.24
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD11	20	0.24
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD12	20	0.24
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD13	20	0.24
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD21	20	0.24
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD22	20	0.24
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD23	20	0.24
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD11	20	0.24
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD12	20	0.24
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD13	20	0.24
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD21	20	0.24
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD22	20	0.24
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD23	20	0.24
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD11	20	0.24
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD12	20	0.24
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD13	20	0.24
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD21	20	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD22	20	0.24
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD23	20	0.24
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD11	8	0.23
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD12	8	0.23
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD13	8	0.23
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD11	8	0.23
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD12	8	0.23
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD13	8	0.23
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD11	8	0.23
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD12	8	0.23
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD13	8	0.23
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD11	16	0.23
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD12	16	0.23
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD13	16	0.23
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD11	16	0.23
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD12	16	0.23
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD13	16	0.23
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD11	16	0.23
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD12	16	0.23
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD13	16	0.23
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	1	0.23
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	1	0.23
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	1	0.23
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	1	0.23
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	1	0.23
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	1	0.23
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	1	0.23
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	1	0.23
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	1	0.23
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD11	3	0.22
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD12	3	0.22
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD13	3	0.22
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD21	3	0.22
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD22	3	0.22
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD23	3	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD11	3	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD12	3	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD13	3	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD21	3	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD22	3	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD23	3	0.22
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD11	17	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD12	17	0.22
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD13	17	0.22
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD21	17	0.22
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD22	17	0.22
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD23	17	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD11	17	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD12	17	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD13	17	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD21	17	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD22	17	0.22
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD23	17	0.22
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD11	17	0.22
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD12	17	0.22
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD13	17	0.22
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD21	17	0.22
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD22	17	0.22
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD23	17	0.22
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD11	17	0.22
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD12	17	0.22
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD13	17	0.22
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD21	17	0.22
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD22	17	0.22
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD23	17	0.22
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD11	17	0.22
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD12	17	0.22
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD13	17	0.22
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD21	17	0.22
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD22	17	0.22
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD23	17	0.22
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	3	0.22
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	3	0.22
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	3	0.22
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	3	0.22
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	3	0.22
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	3	0.22
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	3	0.22
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	3	0.22
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	3	0.22
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	8	0.22
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	8	0.22
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	8	0.22
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	8	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	8	0.22
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	8	0.22
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	8	0.22
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	8	0.22
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	8	0.22
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG2	2	0.21
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG3	2	0.21
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG2	2	0.21
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG3	2	0.21
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG11	9	0.21
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG12	9	0.21
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG13	9	0.21
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG21	9	0.21
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG22	9	0.21
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG23	9	0.21
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG11	9	0.21
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG12	9	0.21
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG13	9	0.21
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG21	9	0.21
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG22	9	0.21
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG23	9	0.21
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG11	9	0.21
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG12	9	0.21
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG13	9	0.21
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG21	9	0.21
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG22	9	0.21
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG23	9	0.21
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD11	9	0.21
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD12	9	0.21
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD13	9	0.21
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD21	9	0.21
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD22	9	0.21
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD23	9	0.21
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD11	9	0.21
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD12	9	0.21
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD13	9	0.21
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD21	9	0.21
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD22	9	0.21
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD23	9	0.21
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD11	6	0.21
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD12	6	0.21
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD13	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD11	6	0.21
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD12	6	0.21
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD13	6	0.21
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD11	6	0.21
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD12	6	0.21
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD13	6	0.21
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD11	18	0.21
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD12	18	0.21
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD13	18	0.21
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD11	18	0.21
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD12	18	0.21
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD13	18	0.21
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD11	18	0.21
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD12	18	0.21
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD13	18	0.21
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG2	5	0.2
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG3	5	0.2
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG2	5	0.2
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG3	5	0.2
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG11	15	0.2
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG12	15	0.2
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG13	15	0.2
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG21	15	0.2
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG22	15	0.2
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG23	15	0.2
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG11	15	0.2
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG12	15	0.2
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG13	15	0.2
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG21	15	0.2
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG22	15	0.2
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG23	15	0.2
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG11	15	0.2
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG12	15	0.2
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG13	15	0.2
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG21	15	0.2
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG22	15	0.2
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG23	15	0.2
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD11	11	0.2
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD12	11	0.2
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD13	11	0.2
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD21	11	0.2
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD22	11	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD23	11	0.2
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD11	11	0.2
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD12	11	0.2
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD13	11	0.2
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD21	11	0.2
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD22	11	0.2
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD23	11	0.2
(1,838)	1:A:8:LEU:HD11	1:A:9:CYS:H	16	0.2
(1,838)	1:A:8:LEU:HD12	1:A:9:CYS:H	16	0.2
(1,838)	1:A:8:LEU:HD13	1:A:9:CYS:H	16	0.2
(1,838)	1:A:8:LEU:HD21	1:A:9:CYS:H	16	0.2
(1,838)	1:A:8:LEU:HD22	1:A:9:CYS:H	16	0.2
(1,838)	1:A:8:LEU:HD23	1:A:9:CYS:H	16	0.2
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD11	20	0.2
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD12	20	0.2
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD13	20	0.2
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD11	20	0.2
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD12	20	0.2
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD13	20	0.2
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD11	20	0.2
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD12	20	0.2
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD13	20	0.2
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	4	0.2
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	4	0.2
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	4	0.2
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	4	0.2
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	4	0.2
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	4	0.2
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	4	0.2
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	4	0.2
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	4	0.2
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG21	12	0.19
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG22	12	0.19
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG23	12	0.19
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG21	12	0.19
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG22	12	0.19
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG23	12	0.19
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG21	12	0.19
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG22	12	0.19
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG23	12	0.19
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG21	12	0.19
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG22	12	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG23	12	0.19
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG21	12	0.19
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG22	12	0.19
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG23	12	0.19
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG21	12	0.19
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG22	12	0.19
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG23	12	0.19
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD11	5	0.19
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD12	5	0.19
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD13	5	0.19
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD21	5	0.19
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD22	5	0.19
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD23	5	0.19
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD11	5	0.19
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD12	5	0.19
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD13	5	0.19
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD21	5	0.19
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD22	5	0.19
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD23	5	0.19
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD11	5	0.19
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD12	5	0.19
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD13	5	0.19
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD21	5	0.19
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD22	5	0.19
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD23	5	0.19
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG11	16	0.19
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG12	16	0.19
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG13	16	0.19
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG21	16	0.19
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG22	16	0.19
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG23	16	0.19
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG11	16	0.19
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG12	16	0.19
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG13	16	0.19
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG21	16	0.19
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG22	16	0.19
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG23	16	0.19
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG11	16	0.19
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG12	16	0.19
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG13	16	0.19
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG21	16	0.19
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG22	16	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG23	16	0.19
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD11	10	0.19
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD12	10	0.19
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD13	10	0.19
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD21	10	0.19
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD22	10	0.19
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD23	10	0.19
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD11	10	0.19
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD12	10	0.19
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD13	10	0.19
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD21	10	0.19
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD22	10	0.19
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD23	10	0.19
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	5	0.19
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	5	0.19
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	5	0.19
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	5	0.19
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	5	0.19
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	5	0.19
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	5	0.19
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	5	0.19
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	5	0.19
(1,1052)	1:A:45:VAL:HG11	1:A:51:ARG:H	20	0.19
(1,1052)	1:A:45:VAL:HG12	1:A:51:ARG:H	20	0.19
(1,1052)	1:A:45:VAL:HG13	1:A:51:ARG:H	20	0.19
(1,1052)	1:A:45:VAL:HG21	1:A:51:ARG:H	20	0.19
(1,1052)	1:A:45:VAL:HG22	1:A:51:ARG:H	20	0.19
(1,1052)	1:A:45:VAL:HG23	1:A:51:ARG:H	20	0.19
(1,995)	1:A:32:ALA:HB1	1:A:33:SER:HB2	4	0.18
(1,995)	1:A:32:ALA:HB1	1:A:33:SER:HB3	4	0.18
(1,995)	1:A:32:ALA:HB2	1:A:33:SER:HB2	4	0.18
(1,995)	1:A:32:ALA:HB2	1:A:33:SER:HB3	4	0.18
(1,995)	1:A:32:ALA:HB3	1:A:33:SER:HB2	4	0.18
(1,995)	1:A:32:ALA:HB3	1:A:33:SER:HB3	4	0.18
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG2	6	0.18
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG3	6	0.18
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG2	6	0.18
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG3	6	0.18
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG21	2	0.18
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG22	2	0.18
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG23	2	0.18
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG21	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG22	2	0.18
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG23	2	0.18
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG21	2	0.18
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG22	2	0.18
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG23	2	0.18
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG21	2	0.18
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG22	2	0.18
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG23	2	0.18
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG21	2	0.18
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG22	2	0.18
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG23	2	0.18
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG21	2	0.18
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG22	2	0.18
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG23	2	0.18
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG21	7	0.18
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG22	7	0.18
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG23	7	0.18
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG21	7	0.18
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG22	7	0.18
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG23	7	0.18
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG21	7	0.18
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG22	7	0.18
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG23	7	0.18
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG21	7	0.18
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG22	7	0.18
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG23	7	0.18
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG21	7	0.18
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG22	7	0.18
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG23	7	0.18
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG21	7	0.18
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG22	7	0.18
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG23	7	0.18
(1,888)	1:A:13:LEU:HD11	1:A:28:PHE:HD1	15	0.18
(1,888)	1:A:13:LEU:HD11	1:A:28:PHE:HD2	15	0.18
(1,888)	1:A:13:LEU:HD12	1:A:28:PHE:HD1	15	0.18
(1,888)	1:A:13:LEU:HD12	1:A:28:PHE:HD2	15	0.18
(1,888)	1:A:13:LEU:HD13	1:A:28:PHE:HD1	15	0.18
(1,888)	1:A:13:LEU:HD13	1:A:28:PHE:HD2	15	0.18
(1,888)	1:A:13:LEU:HD21	1:A:28:PHE:HD1	15	0.18
(1,888)	1:A:13:LEU:HD21	1:A:28:PHE:HD2	15	0.18
(1,888)	1:A:13:LEU:HD22	1:A:28:PHE:HD1	15	0.18
(1,888)	1:A:13:LEU:HD22	1:A:28:PHE:HD2	15	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,888)	1:A:13:LEU:HD23	1:A:28:PHE:HD1	15	0.18
(1,888)	1:A:13:LEU:HD23	1:A:28:PHE:HD2	15	0.18
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD11	2	0.18
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD12	2	0.18
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD13	2	0.18
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD11	2	0.18
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD12	2	0.18
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD13	2	0.18
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD11	2	0.18
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD12	2	0.18
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD13	2	0.18
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG21	3	0.17
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG22	3	0.17
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG23	3	0.17
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG21	3	0.17
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG22	3	0.17
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG23	3	0.17
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG21	3	0.17
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG22	3	0.17
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG23	3	0.17
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG21	3	0.17
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG22	3	0.17
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG23	3	0.17
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG21	3	0.17
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG22	3	0.17
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG23	3	0.17
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG21	3	0.17
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG22	3	0.17
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG23	3	0.17
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD11	3	0.17
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD12	3	0.17
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD13	3	0.17
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD21	3	0.17
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD22	3	0.17
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD23	3	0.17
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD11	3	0.17
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD12	3	0.17
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD13	3	0.17
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD21	3	0.17
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD22	3	0.17
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD23	3	0.17
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD11	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD12	3	0.17
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD13	3	0.17
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD21	3	0.17
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD22	3	0.17
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD23	3	0.17
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG21	4	0.17
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG22	4	0.17
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG23	4	0.17
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG21	4	0.17
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG22	4	0.17
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG23	4	0.17
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG21	4	0.17
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG22	4	0.17
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG23	4	0.17
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG21	4	0.17
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG22	4	0.17
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG23	4	0.17
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG21	4	0.17
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG22	4	0.17
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG23	4	0.17
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG21	4	0.17
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG22	4	0.17
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG23	4	0.17
(1,1052)	1:A:45:VAL:HG11	1:A:51:ARG:H	6	0.17
(1,1052)	1:A:45:VAL:HG12	1:A:51:ARG:H	6	0.17
(1,1052)	1:A:45:VAL:HG13	1:A:51:ARG:H	6	0.17
(1,1052)	1:A:45:VAL:HG21	1:A:51:ARG:H	6	0.17
(1,1052)	1:A:45:VAL:HG22	1:A:51:ARG:H	6	0.17
(1,1052)	1:A:45:VAL:HG23	1:A:51:ARG:H	6	0.17
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG11	16	0.17
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG12	16	0.17
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG13	16	0.17
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG21	16	0.17
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG22	16	0.17
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG23	16	0.17
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG11	16	0.17
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG12	16	0.17
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG13	16	0.17
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG21	16	0.17
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG22	16	0.17
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG23	16	0.17
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG11	16	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG12	16	0.17
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG13	16	0.17
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG21	16	0.17
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG22	16	0.17
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG23	16	0.17
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG11	10	0.16
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG12	10	0.16
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG13	10	0.16
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG21	10	0.16
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG22	10	0.16
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG23	10	0.16
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG11	10	0.16
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG12	10	0.16
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG13	10	0.16
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG21	10	0.16
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG22	10	0.16
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG23	10	0.16
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG11	10	0.16
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG12	10	0.16
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG13	10	0.16
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG21	10	0.16
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG22	10	0.16
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG23	10	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD11	2	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD12	2	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD13	2	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD21	2	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD22	2	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD23	2	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD11	2	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD12	2	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD13	2	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD21	2	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD22	2	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD23	2	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD11	5	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD12	5	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD13	5	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD21	5	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD22	5	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD23	5	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD11	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD12	5	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD13	5	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD21	5	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD22	5	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD23	5	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD11	13	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD12	13	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD13	13	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD21	13	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD22	13	0.16
(1,868)	1:A:12:GLU:HG2	1:A:13:LEU:HD23	13	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD11	13	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD12	13	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD13	13	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD21	13	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD22	13	0.16
(1,868)	1:A:12:GLU:HG3	1:A:13:LEU:HD23	13	0.16
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD11	19	0.16
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD12	19	0.16
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD13	19	0.16
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD21	19	0.16
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD22	19	0.16
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD23	19	0.16
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD11	19	0.16
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD12	19	0.16
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD13	19	0.16
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD21	19	0.16
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD22	19	0.16
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD23	19	0.16
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD11	19	0.16
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD12	19	0.16
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD13	19	0.16
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD21	19	0.16
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD22	19	0.16
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD23	19	0.16
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD11	9	0.16
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD12	9	0.16
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD13	9	0.16
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD11	9	0.16
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD12	9	0.16
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD13	9	0.16
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD11	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD12	9	0.16
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD13	9	0.16
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG21	3	0.16
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG22	3	0.16
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG23	3	0.16
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG21	3	0.16
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG22	3	0.16
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG23	3	0.16
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG21	3	0.16
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG22	3	0.16
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG23	3	0.16
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG21	3	0.16
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG22	3	0.16
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG23	3	0.16
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG21	3	0.16
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG22	3	0.16
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG23	3	0.16
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG21	3	0.16
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG22	3	0.16
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG23	3	0.16
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG21	5	0.16
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG22	5	0.16
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG23	5	0.16
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG21	5	0.16
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG22	5	0.16
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG23	5	0.16
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG21	5	0.16
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG22	5	0.16
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG23	5	0.16
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG21	5	0.16
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG22	5	0.16
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG23	5	0.16
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG21	5	0.16
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG22	5	0.16
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG23	5	0.16
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG21	5	0.16
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG22	5	0.16
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG23	5	0.16
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	7	0.16
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	7	0.16
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	7	0.16
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	7	0.16
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	7	0.16
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	7	0.16
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	7	0.16
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	7	0.16
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD11	13	0.16
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD12	13	0.16
(1,354)	1:A:16:THR:HG21	1:A:17:LEU:HD13	13	0.16
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD11	13	0.16
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD12	13	0.16
(1,354)	1:A:16:THR:HG22	1:A:17:LEU:HD13	13	0.16
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD11	13	0.16
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD12	13	0.16
(1,354)	1:A:16:THR:HG23	1:A:17:LEU:HD13	13	0.16
(1,1052)	1:A:45:VAL:HG11	1:A:51:ARG:H	8	0.16
(1,1052)	1:A:45:VAL:HG12	1:A:51:ARG:H	8	0.16
(1,1052)	1:A:45:VAL:HG13	1:A:51:ARG:H	8	0.16
(1,1052)	1:A:45:VAL:HG21	1:A:51:ARG:H	8	0.16
(1,1052)	1:A:45:VAL:HG22	1:A:51:ARG:H	8	0.16
(1,1052)	1:A:45:VAL:HG23	1:A:51:ARG:H	8	0.16
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD2	2	0.15
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD3	2	0.15
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG21	4	0.15
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG22	4	0.15
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG23	4	0.15
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG21	4	0.15
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG22	4	0.15
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG23	4	0.15
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG21	4	0.15
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG22	4	0.15
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG23	4	0.15
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG21	4	0.15
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG22	4	0.15
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG23	4	0.15
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG21	4	0.15
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG22	4	0.15
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG23	4	0.15
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG21	4	0.15
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG22	4	0.15
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG23	4	0.15
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG21	9	0.15
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG22	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG23	9	0.15
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG21	9	0.15
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG22	9	0.15
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG23	9	0.15
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG21	9	0.15
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG22	9	0.15
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG23	9	0.15
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG21	9	0.15
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG22	9	0.15
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG23	9	0.15
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG21	9	0.15
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG22	9	0.15
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG23	9	0.15
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG21	9	0.15
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG22	9	0.15
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG23	9	0.15
(1,904)	1:A:14:VAL:HG11	1:A:18:GLN:HE21	16	0.15
(1,904)	1:A:14:VAL:HG11	1:A:18:GLN:HE22	16	0.15
(1,904)	1:A:14:VAL:HG12	1:A:18:GLN:HE21	16	0.15
(1,904)	1:A:14:VAL:HG12	1:A:18:GLN:HE22	16	0.15
(1,904)	1:A:14:VAL:HG13	1:A:18:GLN:HE21	16	0.15
(1,904)	1:A:14:VAL:HG13	1:A:18:GLN:HE22	16	0.15
(1,888)	1:A:13:LEU:HD11	1:A:28:PHE:HD1	10	0.15
(1,888)	1:A:13:LEU:HD11	1:A:28:PHE:HD2	10	0.15
(1,888)	1:A:13:LEU:HD12	1:A:28:PHE:HD1	10	0.15
(1,888)	1:A:13:LEU:HD12	1:A:28:PHE:HD2	10	0.15
(1,888)	1:A:13:LEU:HD13	1:A:28:PHE:HD1	10	0.15
(1,888)	1:A:13:LEU:HD13	1:A:28:PHE:HD2	10	0.15
(1,888)	1:A:13:LEU:HD21	1:A:28:PHE:HD1	10	0.15
(1,888)	1:A:13:LEU:HD21	1:A:28:PHE:HD2	10	0.15
(1,888)	1:A:13:LEU:HD22	1:A:28:PHE:HD1	10	0.15
(1,888)	1:A:13:LEU:HD22	1:A:28:PHE:HD2	10	0.15
(1,888)	1:A:13:LEU:HD23	1:A:28:PHE:HD1	10	0.15
(1,888)	1:A:13:LEU:HD23	1:A:28:PHE:HD2	10	0.15
(1,888)	1:A:13:LEU:HD11	1:A:28:PHE:HD1	17	0.15
(1,888)	1:A:13:LEU:HD11	1:A:28:PHE:HD2	17	0.15
(1,888)	1:A:13:LEU:HD12	1:A:28:PHE:HD1	17	0.15
(1,888)	1:A:13:LEU:HD12	1:A:28:PHE:HD2	17	0.15
(1,888)	1:A:13:LEU:HD13	1:A:28:PHE:HD1	17	0.15
(1,888)	1:A:13:LEU:HD13	1:A:28:PHE:HD2	17	0.15
(1,888)	1:A:13:LEU:HD21	1:A:28:PHE:HD1	17	0.15
(1,888)	1:A:13:LEU:HD21	1:A:28:PHE:HD2	17	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,888)	1:A:13:LEU:HD22	1:A:28:PHE:HD1	17	0.15
(1,888)	1:A:13:LEU:HD22	1:A:28:PHE:HD2	17	0.15
(1,888)	1:A:13:LEU:HD23	1:A:28:PHE:HD1	17	0.15
(1,888)	1:A:13:LEU:HD23	1:A:28:PHE:HD2	17	0.15
(1,853)	1:A:8:LEU:HD11	1:A:17:LEU:HD11	8	0.15
(1,853)	1:A:8:LEU:HD11	1:A:17:LEU:HD12	8	0.15
(1,853)	1:A:8:LEU:HD11	1:A:17:LEU:HD13	8	0.15
(1,853)	1:A:8:LEU:HD12	1:A:17:LEU:HD11	8	0.15
(1,853)	1:A:8:LEU:HD12	1:A:17:LEU:HD12	8	0.15
(1,853)	1:A:8:LEU:HD12	1:A:17:LEU:HD13	8	0.15
(1,853)	1:A:8:LEU:HD13	1:A:17:LEU:HD11	8	0.15
(1,853)	1:A:8:LEU:HD13	1:A:17:LEU:HD12	8	0.15
(1,853)	1:A:8:LEU:HD13	1:A:17:LEU:HD13	8	0.15
(1,853)	1:A:8:LEU:HD21	1:A:17:LEU:HD11	8	0.15
(1,853)	1:A:8:LEU:HD21	1:A:17:LEU:HD12	8	0.15
(1,853)	1:A:8:LEU:HD21	1:A:17:LEU:HD13	8	0.15
(1,853)	1:A:8:LEU:HD22	1:A:17:LEU:HD11	8	0.15
(1,853)	1:A:8:LEU:HD22	1:A:17:LEU:HD12	8	0.15
(1,853)	1:A:8:LEU:HD22	1:A:17:LEU:HD13	8	0.15
(1,853)	1:A:8:LEU:HD23	1:A:17:LEU:HD11	8	0.15
(1,853)	1:A:8:LEU:HD23	1:A:17:LEU:HD12	8	0.15
(1,853)	1:A:8:LEU:HD23	1:A:17:LEU:HD13	8	0.15
(1,838)	1:A:8:LEU:HD11	1:A:9:CYS:H	1	0.15
(1,838)	1:A:8:LEU:HD12	1:A:9:CYS:H	1	0.15
(1,838)	1:A:8:LEU:HD13	1:A:9:CYS:H	1	0.15
(1,838)	1:A:8:LEU:HD21	1:A:9:CYS:H	1	0.15
(1,838)	1:A:8:LEU:HD22	1:A:9:CYS:H	1	0.15
(1,838)	1:A:8:LEU:HD23	1:A:9:CYS:H	1	0.15
(1,838)	1:A:8:LEU:HD11	1:A:9:CYS:H	3	0.15
(1,838)	1:A:8:LEU:HD12	1:A:9:CYS:H	3	0.15
(1,838)	1:A:8:LEU:HD13	1:A:9:CYS:H	3	0.15
(1,838)	1:A:8:LEU:HD21	1:A:9:CYS:H	3	0.15
(1,838)	1:A:8:LEU:HD22	1:A:9:CYS:H	3	0.15
(1,838)	1:A:8:LEU:HD23	1:A:9:CYS:H	3	0.15
(1,672)	1:A:27:TYR:HD1	1:A:32:ALA:HB1	11	0.15
(1,672)	1:A:27:TYR:HD1	1:A:32:ALA:HB2	11	0.15
(1,672)	1:A:27:TYR:HD1	1:A:32:ALA:HB3	11	0.15
(1,672)	1:A:27:TYR:HD2	1:A:32:ALA:HB1	11	0.15
(1,672)	1:A:27:TYR:HD2	1:A:32:ALA:HB2	11	0.15
(1,672)	1:A:27:TYR:HD2	1:A:32:ALA:HB3	11	0.15
(1,484)	1:A:13:LEU:HD11	1:A:28:PHE:HD1	11	0.15
(1,484)	1:A:13:LEU:HD11	1:A:28:PHE:HD2	11	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,484)	1:A:13:LEU:HD12	1:A:28:PHE:HD1	11	0.15
(1,484)	1:A:13:LEU:HD12	1:A:28:PHE:HD2	11	0.15
(1,484)	1:A:13:LEU:HD13	1:A:28:PHE:HD1	11	0.15
(1,484)	1:A:13:LEU:HD13	1:A:28:PHE:HD2	11	0.15
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD11	11	0.15
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD12	11	0.15
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD13	11	0.15
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD11	11	0.15
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD12	11	0.15
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD13	11	0.15
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD11	11	0.15
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD12	11	0.15
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD13	11	0.15
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG21	8	0.15
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG22	8	0.15
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG23	8	0.15
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG21	8	0.15
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG22	8	0.15
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG23	8	0.15
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG21	8	0.15
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG22	8	0.15
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG23	8	0.15
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG21	8	0.15
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG22	8	0.15
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG23	8	0.15
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG21	8	0.15
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG22	8	0.15
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG23	8	0.15
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG21	8	0.15
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG22	8	0.15
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG23	8	0.15
(1,173)	1:A:32:ALA:HB1	1:A:33:SER:H	5	0.15
(1,173)	1:A:32:ALA:HB2	1:A:33:SER:H	5	0.15
(1,173)	1:A:32:ALA:HB3	1:A:33:SER:H	5	0.15
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG2	20	0.14
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG3	20	0.14
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG2	20	0.14
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG3	20	0.14
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD2	12	0.14
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD3	12	0.14
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD2	18	0.14
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD3	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,961)	1:A:20:VAL:HG11	1:A:61:TYR:H	3	0.14
(1,961)	1:A:20:VAL:HG12	1:A:61:TYR:H	3	0.14
(1,961)	1:A:20:VAL:HG13	1:A:61:TYR:H	3	0.14
(1,961)	1:A:20:VAL:HG21	1:A:61:TYR:H	3	0.14
(1,961)	1:A:20:VAL:HG22	1:A:61:TYR:H	3	0.14
(1,961)	1:A:20:VAL:HG23	1:A:61:TYR:H	3	0.14
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG21	5	0.14
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG22	5	0.14
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG23	5	0.14
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG21	5	0.14
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG22	5	0.14
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG23	5	0.14
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG21	5	0.14
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG22	5	0.14
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG23	5	0.14
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG21	5	0.14
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG22	5	0.14
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG23	5	0.14
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG21	5	0.14
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG22	5	0.14
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG23	5	0.14
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG21	5	0.14
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG22	5	0.14
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG23	5	0.14
(1,888)	1:A:13:LEU:HD11	1:A:28:PHE:HD1	20	0.14
(1,888)	1:A:13:LEU:HD11	1:A:28:PHE:HD2	20	0.14
(1,888)	1:A:13:LEU:HD12	1:A:28:PHE:HD1	20	0.14
(1,888)	1:A:13:LEU:HD12	1:A:28:PHE:HD2	20	0.14
(1,888)	1:A:13:LEU:HD13	1:A:28:PHE:HD1	20	0.14
(1,888)	1:A:13:LEU:HD13	1:A:28:PHE:HD2	20	0.14
(1,888)	1:A:13:LEU:HD21	1:A:28:PHE:HD1	20	0.14
(1,888)	1:A:13:LEU:HD21	1:A:28:PHE:HD2	20	0.14
(1,888)	1:A:13:LEU:HD22	1:A:28:PHE:HD1	20	0.14
(1,888)	1:A:13:LEU:HD22	1:A:28:PHE:HD2	20	0.14
(1,888)	1:A:13:LEU:HD23	1:A:28:PHE:HD1	20	0.14
(1,888)	1:A:13:LEU:HD23	1:A:28:PHE:HD2	20	0.14
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD11	10	0.14
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD12	10	0.14
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD13	10	0.14
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD11	10	0.14
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD12	10	0.14
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD13	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD11	10	0.14
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD12	10	0.14
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD13	10	0.14
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD11	12	0.14
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD12	12	0.14
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD13	12	0.14
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD11	12	0.14
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD12	12	0.14
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD13	12	0.14
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD11	12	0.14
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD12	12	0.14
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD13	12	0.14
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG21	12	0.14
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG22	12	0.14
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG23	12	0.14
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG21	12	0.14
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG22	12	0.14
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG23	12	0.14
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG21	12	0.14
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG22	12	0.14
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG23	12	0.14
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG21	12	0.14
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG22	12	0.14
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG23	12	0.14
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG21	12	0.14
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG22	12	0.14
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG23	12	0.14
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG21	12	0.14
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG22	12	0.14
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG23	12	0.14
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG11	17	0.14
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG12	17	0.14
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG13	17	0.14
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG21	17	0.14
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG22	17	0.14
(1,1030)	1:A:44:ILE:HG21	1:A:45:VAL:HG23	17	0.14
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG11	17	0.14
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG12	17	0.14
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG13	17	0.14
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG21	17	0.14
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG22	17	0.14
(1,1030)	1:A:44:ILE:HG22	1:A:45:VAL:HG23	17	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG11	17	0.14
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG12	17	0.14
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG13	17	0.14
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG21	17	0.14
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG22	17	0.14
(1,1030)	1:A:44:ILE:HG23	1:A:45:VAL:HG23	17	0.14
(1,995)	1:A:32:ALA:HB1	1:A:33:SER:HB2	20	0.13
(1,995)	1:A:32:ALA:HB1	1:A:33:SER:HB3	20	0.13
(1,995)	1:A:32:ALA:HB2	1:A:33:SER:HB2	20	0.13
(1,995)	1:A:32:ALA:HB2	1:A:33:SER:HB3	20	0.13
(1,995)	1:A:32:ALA:HB3	1:A:33:SER:HB2	20	0.13
(1,995)	1:A:32:ALA:HB3	1:A:33:SER:HB3	20	0.13
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG2	3	0.13
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG3	3	0.13
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG2	3	0.13
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG3	3	0.13
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG2	10	0.13
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG3	10	0.13
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG2	10	0.13
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG3	10	0.13
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD2	3	0.13
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD3	3	0.13
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD2	15	0.13
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD3	15	0.13
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD2	19	0.13
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD3	19	0.13
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD2	20	0.13
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD3	20	0.13
(1,492)	1:A:17:LEU:HD11	1:A:58:LEU:HD11	16	0.13
(1,492)	1:A:17:LEU:HD11	1:A:58:LEU:HD12	16	0.13
(1,492)	1:A:17:LEU:HD11	1:A:58:LEU:HD13	16	0.13
(1,492)	1:A:17:LEU:HD12	1:A:58:LEU:HD11	16	0.13
(1,492)	1:A:17:LEU:HD12	1:A:58:LEU:HD12	16	0.13
(1,492)	1:A:17:LEU:HD12	1:A:58:LEU:HD13	16	0.13
(1,492)	1:A:17:LEU:HD13	1:A:58:LEU:HD11	16	0.13
(1,492)	1:A:17:LEU:HD13	1:A:58:LEU:HD12	16	0.13
(1,492)	1:A:17:LEU:HD13	1:A:58:LEU:HD13	16	0.13
(1,484)	1:A:13:LEU:HD11	1:A:28:PHE:HD1	5	0.13
(1,484)	1:A:13:LEU:HD11	1:A:28:PHE:HD2	5	0.13
(1,484)	1:A:13:LEU:HD12	1:A:28:PHE:HD1	5	0.13
(1,484)	1:A:13:LEU:HD12	1:A:28:PHE:HD2	5	0.13
(1,484)	1:A:13:LEU:HD13	1:A:28:PHE:HD1	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,484)	1:A:13:LEU:HD13	1:A:28:PHE:HD2	5	0.13
(1,484)	1:A:13:LEU:HD11	1:A:28:PHE:HD1	9	0.13
(1,484)	1:A:13:LEU:HD11	1:A:28:PHE:HD2	9	0.13
(1,484)	1:A:13:LEU:HD12	1:A:28:PHE:HD1	9	0.13
(1,484)	1:A:13:LEU:HD12	1:A:28:PHE:HD2	9	0.13
(1,484)	1:A:13:LEU:HD13	1:A:28:PHE:HD1	9	0.13
(1,484)	1:A:13:LEU:HD13	1:A:28:PHE:HD2	9	0.13
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD11	1	0.13
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD12	1	0.13
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD13	1	0.13
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD21	1	0.13
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD22	1	0.13
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD23	1	0.13
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD11	1	0.13
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD12	1	0.13
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD13	1	0.13
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD21	1	0.13
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD22	1	0.13
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD23	1	0.13
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD11	1	0.13
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD12	1	0.13
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD13	1	0.13
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD21	1	0.13
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD22	1	0.13
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD23	1	0.13
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD11	1	0.13
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD12	1	0.13
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD13	1	0.13
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD11	1	0.13
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD12	1	0.13
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD13	1	0.13
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD11	1	0.13
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD12	1	0.13
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD13	1	0.13
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD11	15	0.13
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD12	15	0.13
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD13	15	0.13
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD11	15	0.13
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD12	15	0.13
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD13	15	0.13
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD11	15	0.13
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD12	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD13	15	0.13
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD11	19	0.13
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD12	19	0.13
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD13	19	0.13
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD11	19	0.13
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD12	19	0.13
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD13	19	0.13
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD11	19	0.13
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD12	19	0.13
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD13	19	0.13
(1,274)	1:A:13:LEU:HD21	1:A:44:ILE:HD11	18	0.13
(1,274)	1:A:13:LEU:HD21	1:A:44:ILE:HD12	18	0.13
(1,274)	1:A:13:LEU:HD21	1:A:44:ILE:HD13	18	0.13
(1,274)	1:A:13:LEU:HD22	1:A:44:ILE:HD11	18	0.13
(1,274)	1:A:13:LEU:HD22	1:A:44:ILE:HD12	18	0.13
(1,274)	1:A:13:LEU:HD22	1:A:44:ILE:HD13	18	0.13
(1,274)	1:A:13:LEU:HD23	1:A:44:ILE:HD11	18	0.13
(1,274)	1:A:13:LEU:HD23	1:A:44:ILE:HD12	18	0.13
(1,274)	1:A:13:LEU:HD23	1:A:44:ILE:HD13	18	0.13
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG2	15	0.12
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG3	15	0.12
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG2	15	0.12
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG3	15	0.12
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG2	17	0.12
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG3	17	0.12
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG2	17	0.12
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG3	17	0.12
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD2	4	0.12
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD3	4	0.12
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD2	10	0.12
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD3	10	0.12
(1,923)	1:A:17:LEU:HD21	1:A:20:VAL:HG11	5	0.12
(1,923)	1:A:17:LEU:HD21	1:A:20:VAL:HG12	5	0.12
(1,923)	1:A:17:LEU:HD21	1:A:20:VAL:HG13	5	0.12
(1,923)	1:A:17:LEU:HD21	1:A:20:VAL:HG21	5	0.12
(1,923)	1:A:17:LEU:HD21	1:A:20:VAL:HG22	5	0.12
(1,923)	1:A:17:LEU:HD21	1:A:20:VAL:HG23	5	0.12
(1,923)	1:A:17:LEU:HD22	1:A:20:VAL:HG11	5	0.12
(1,923)	1:A:17:LEU:HD22	1:A:20:VAL:HG12	5	0.12
(1,923)	1:A:17:LEU:HD22	1:A:20:VAL:HG13	5	0.12
(1,923)	1:A:17:LEU:HD22	1:A:20:VAL:HG21	5	0.12
(1,923)	1:A:17:LEU:HD22	1:A:20:VAL:HG22	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,923)	1:A:17:LEU:HD22	1:A:20:VAL:HG23	5	0.12
(1,923)	1:A:17:LEU:HD23	1:A:20:VAL:HG11	5	0.12
(1,923)	1:A:17:LEU:HD23	1:A:20:VAL:HG12	5	0.12
(1,923)	1:A:17:LEU:HD23	1:A:20:VAL:HG13	5	0.12
(1,923)	1:A:17:LEU:HD23	1:A:20:VAL:HG21	5	0.12
(1,923)	1:A:17:LEU:HD23	1:A:20:VAL:HG22	5	0.12
(1,923)	1:A:17:LEU:HD23	1:A:20:VAL:HG23	5	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG11	1	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG12	1	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG13	1	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG21	1	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG22	1	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG23	1	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG11	1	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG12	1	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG13	1	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG21	1	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG22	1	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG23	1	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG11	1	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG12	1	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG13	1	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG21	1	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG22	1	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG23	1	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG11	8	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG12	8	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG13	8	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG21	8	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG22	8	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG23	8	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG11	8	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG12	8	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG13	8	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG21	8	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG22	8	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG23	8	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG11	8	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG12	8	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG13	8	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG21	8	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG22	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG23	8	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG11	18	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG12	18	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG13	18	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG21	18	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG22	18	0.12
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG23	18	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG11	18	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG12	18	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG13	18	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG21	18	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG22	18	0.12
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG23	18	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG11	18	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG12	18	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG13	18	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG21	18	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG22	18	0.12
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG23	18	0.12
(1,814)	1:A:66:ALA:HB1	1:A:68:SER:HB2	17	0.12
(1,814)	1:A:66:ALA:HB1	1:A:68:SER:HB3	17	0.12
(1,814)	1:A:66:ALA:HB2	1:A:68:SER:HB2	17	0.12
(1,814)	1:A:66:ALA:HB2	1:A:68:SER:HB3	17	0.12
(1,814)	1:A:66:ALA:HB3	1:A:68:SER:HB2	17	0.12
(1,814)	1:A:66:ALA:HB3	1:A:68:SER:HB3	17	0.12
(1,499)	1:A:58:LEU:HD11	1:A:59:GLU:HA	16	0.12
(1,499)	1:A:58:LEU:HD12	1:A:59:GLU:HA	16	0.12
(1,499)	1:A:58:LEU:HD13	1:A:59:GLU:HA	16	0.12
(1,484)	1:A:13:LEU:HD11	1:A:28:PHE:HD1	16	0.12
(1,484)	1:A:13:LEU:HD11	1:A:28:PHE:HD2	16	0.12
(1,484)	1:A:13:LEU:HD12	1:A:28:PHE:HD1	16	0.12
(1,484)	1:A:13:LEU:HD12	1:A:28:PHE:HD2	16	0.12
(1,484)	1:A:13:LEU:HD13	1:A:28:PHE:HD1	16	0.12
(1,484)	1:A:13:LEU:HD13	1:A:28:PHE:HD2	16	0.12
(1,484)	1:A:13:LEU:HD11	1:A:28:PHE:HD1	18	0.12
(1,484)	1:A:13:LEU:HD11	1:A:28:PHE:HD2	18	0.12
(1,484)	1:A:13:LEU:HD12	1:A:28:PHE:HD1	18	0.12
(1,484)	1:A:13:LEU:HD12	1:A:28:PHE:HD2	18	0.12
(1,484)	1:A:13:LEU:HD13	1:A:28:PHE:HD1	18	0.12
(1,484)	1:A:13:LEU:HD13	1:A:28:PHE:HD2	18	0.12
(1,461)	1:A:57:LEU:HD11	1:A:61:TYR:HD1	17	0.12
(1,461)	1:A:57:LEU:HD11	1:A:61:TYR:HD2	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,461)	1:A:57:LEU:HD12	1:A:61:TYR:HD1	17	0.12
(1,461)	1:A:57:LEU:HD12	1:A:61:TYR:HD2	17	0.12
(1,461)	1:A:57:LEU:HD13	1:A:61:TYR:HD1	17	0.12
(1,461)	1:A:57:LEU:HD13	1:A:61:TYR:HD2	17	0.12
(1,461)	1:A:57:LEU:HD21	1:A:61:TYR:HD1	17	0.12
(1,461)	1:A:57:LEU:HD21	1:A:61:TYR:HD2	17	0.12
(1,461)	1:A:57:LEU:HD22	1:A:61:TYR:HD1	17	0.12
(1,461)	1:A:57:LEU:HD22	1:A:61:TYR:HD2	17	0.12
(1,461)	1:A:57:LEU:HD23	1:A:61:TYR:HD1	17	0.12
(1,461)	1:A:57:LEU:HD23	1:A:61:TYR:HD2	17	0.12
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG21	2	0.12
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG22	2	0.12
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG23	2	0.12
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG21	2	0.12
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG22	2	0.12
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG23	2	0.12
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG21	2	0.12
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG22	2	0.12
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG23	2	0.12
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG21	2	0.12
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG22	2	0.12
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG23	2	0.12
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG21	2	0.12
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG22	2	0.12
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG23	2	0.12
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG21	2	0.12
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG22	2	0.12
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG23	2	0.12
(1,332)	1:A:35:VAL:HG11	1:A:37:ARG:HG2	19	0.12
(1,332)	1:A:35:VAL:HG11	1:A:37:ARG:HG3	19	0.12
(1,332)	1:A:35:VAL:HG12	1:A:37:ARG:HG2	19	0.12
(1,332)	1:A:35:VAL:HG12	1:A:37:ARG:HG3	19	0.12
(1,332)	1:A:35:VAL:HG13	1:A:37:ARG:HG2	19	0.12
(1,332)	1:A:35:VAL:HG13	1:A:37:ARG:HG3	19	0.12
(1,1065)	1:A:47:GLU:HG2	1:A:57:LEU:HD11	9	0.12
(1,1065)	1:A:47:GLU:HG2	1:A:57:LEU:HD12	9	0.12
(1,1065)	1:A:47:GLU:HG2	1:A:57:LEU:HD13	9	0.12
(1,1065)	1:A:47:GLU:HG2	1:A:57:LEU:HD21	9	0.12
(1,1065)	1:A:47:GLU:HG2	1:A:57:LEU:HD22	9	0.12
(1,1065)	1:A:47:GLU:HG2	1:A:57:LEU:HD23	9	0.12
(1,1065)	1:A:47:GLU:HG3	1:A:57:LEU:HD11	9	0.12
(1,1065)	1:A:47:GLU:HG3	1:A:57:LEU:HD12	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1065)	1:A:47:GLU:HG3	1:A:57:LEU:HD13	9	0.12
(1,1065)	1:A:47:GLU:HG3	1:A:57:LEU:HD21	9	0.12
(1,1065)	1:A:47:GLU:HG3	1:A:57:LEU:HD22	9	0.12
(1,1065)	1:A:47:GLU:HG3	1:A:57:LEU:HD23	9	0.12
(1,1052)	1:A:45:VAL:HG11	1:A:51:ARG:H	7	0.12
(1,1052)	1:A:45:VAL:HG12	1:A:51:ARG:H	7	0.12
(1,1052)	1:A:45:VAL:HG13	1:A:51:ARG:H	7	0.12
(1,1052)	1:A:45:VAL:HG21	1:A:51:ARG:H	7	0.12
(1,1052)	1:A:45:VAL:HG22	1:A:51:ARG:H	7	0.12
(1,1052)	1:A:45:VAL:HG23	1:A:51:ARG:H	7	0.12
(1,1037)	1:A:44:ILE:HD11	1:A:58:LEU:HD11	5	0.12
(1,1037)	1:A:44:ILE:HD11	1:A:58:LEU:HD12	5	0.12
(1,1037)	1:A:44:ILE:HD11	1:A:58:LEU:HD13	5	0.12
(1,1037)	1:A:44:ILE:HD11	1:A:58:LEU:HD21	5	0.12
(1,1037)	1:A:44:ILE:HD11	1:A:58:LEU:HD22	5	0.12
(1,1037)	1:A:44:ILE:HD11	1:A:58:LEU:HD23	5	0.12
(1,1037)	1:A:44:ILE:HD12	1:A:58:LEU:HD11	5	0.12
(1,1037)	1:A:44:ILE:HD12	1:A:58:LEU:HD12	5	0.12
(1,1037)	1:A:44:ILE:HD12	1:A:58:LEU:HD13	5	0.12
(1,1037)	1:A:44:ILE:HD12	1:A:58:LEU:HD21	5	0.12
(1,1037)	1:A:44:ILE:HD12	1:A:58:LEU:HD22	5	0.12
(1,1037)	1:A:44:ILE:HD12	1:A:58:LEU:HD23	5	0.12
(1,1037)	1:A:44:ILE:HD13	1:A:58:LEU:HD11	5	0.12
(1,1037)	1:A:44:ILE:HD13	1:A:58:LEU:HD12	5	0.12
(1,1037)	1:A:44:ILE:HD13	1:A:58:LEU:HD13	5	0.12
(1,1037)	1:A:44:ILE:HD13	1:A:58:LEU:HD21	5	0.12
(1,1037)	1:A:44:ILE:HD13	1:A:58:LEU:HD22	5	0.12
(1,1037)	1:A:44:ILE:HD13	1:A:58:LEU:HD23	5	0.12
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG2	12	0.11
(1,990)	1:A:30:ARG:HG2	1:A:31:PRO:HG3	12	0.11
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG2	12	0.11
(1,990)	1:A:30:ARG:HG3	1:A:31:PRO:HG3	12	0.11
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD2	1	0.11
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD3	1	0.11
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD2	8	0.11
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD3	8	0.11
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD2	17	0.11
(1,988)	1:A:30:ARG:HA	1:A:31:PRO:HD3	17	0.11
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG21	1	0.11
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG22	1	0.11
(1,960)	1:A:20:VAL:HG11	1:A:60:THR:HG23	1	0.11
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG21	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG22	1	0.11
(1,960)	1:A:20:VAL:HG12	1:A:60:THR:HG23	1	0.11
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG21	1	0.11
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG22	1	0.11
(1,960)	1:A:20:VAL:HG13	1:A:60:THR:HG23	1	0.11
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG21	1	0.11
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG22	1	0.11
(1,960)	1:A:20:VAL:HG21	1:A:60:THR:HG23	1	0.11
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG21	1	0.11
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG22	1	0.11
(1,960)	1:A:20:VAL:HG22	1:A:60:THR:HG23	1	0.11
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG21	1	0.11
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG22	1	0.11
(1,960)	1:A:20:VAL:HG23	1:A:60:THR:HG23	1	0.11
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD11	4	0.11
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD12	4	0.11
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD13	4	0.11
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD21	4	0.11
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD22	4	0.11
(1,921)	1:A:17:LEU:HD11	1:A:58:LEU:HD23	4	0.11
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD11	4	0.11
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD12	4	0.11
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD13	4	0.11
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD21	4	0.11
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD22	4	0.11
(1,921)	1:A:17:LEU:HD12	1:A:58:LEU:HD23	4	0.11
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD11	4	0.11
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD12	4	0.11
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD13	4	0.11
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD21	4	0.11
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD22	4	0.11
(1,921)	1:A:17:LEU:HD13	1:A:58:LEU:HD23	4	0.11
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG11	17	0.11
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG12	17	0.11
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG13	17	0.11
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG21	17	0.11
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG22	17	0.11
(1,910)	1:A:16:THR:HG21	1:A:20:VAL:HG23	17	0.11
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG11	17	0.11
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG12	17	0.11
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG13	17	0.11
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG21	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG22	17	0.11
(1,910)	1:A:16:THR:HG22	1:A:20:VAL:HG23	17	0.11
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG11	17	0.11
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG12	17	0.11
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG13	17	0.11
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG21	17	0.11
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG22	17	0.11
(1,910)	1:A:16:THR:HG23	1:A:20:VAL:HG23	17	0.11
(1,853)	1:A:8:LEU:HD11	1:A:17:LEU:HD11	12	0.11
(1,853)	1:A:8:LEU:HD11	1:A:17:LEU:HD12	12	0.11
(1,853)	1:A:8:LEU:HD11	1:A:17:LEU:HD13	12	0.11
(1,853)	1:A:8:LEU:HD12	1:A:17:LEU:HD11	12	0.11
(1,853)	1:A:8:LEU:HD12	1:A:17:LEU:HD12	12	0.11
(1,853)	1:A:8:LEU:HD12	1:A:17:LEU:HD13	12	0.11
(1,853)	1:A:8:LEU:HD13	1:A:17:LEU:HD11	12	0.11
(1,853)	1:A:8:LEU:HD13	1:A:17:LEU:HD12	12	0.11
(1,853)	1:A:8:LEU:HD13	1:A:17:LEU:HD13	12	0.11
(1,853)	1:A:8:LEU:HD21	1:A:17:LEU:HD11	12	0.11
(1,853)	1:A:8:LEU:HD21	1:A:17:LEU:HD12	12	0.11
(1,853)	1:A:8:LEU:HD21	1:A:17:LEU:HD13	12	0.11
(1,853)	1:A:8:LEU:HD22	1:A:17:LEU:HD11	12	0.11
(1,853)	1:A:8:LEU:HD22	1:A:17:LEU:HD12	12	0.11
(1,853)	1:A:8:LEU:HD22	1:A:17:LEU:HD13	12	0.11
(1,853)	1:A:8:LEU:HD23	1:A:17:LEU:HD11	12	0.11
(1,853)	1:A:8:LEU:HD23	1:A:17:LEU:HD12	12	0.11
(1,853)	1:A:8:LEU:HD23	1:A:17:LEU:HD13	12	0.11
(1,838)	1:A:8:LEU:HD11	1:A:9:CYS:H	2	0.11
(1,838)	1:A:8:LEU:HD12	1:A:9:CYS:H	2	0.11
(1,838)	1:A:8:LEU:HD13	1:A:9:CYS:H	2	0.11
(1,838)	1:A:8:LEU:HD21	1:A:9:CYS:H	2	0.11
(1,838)	1:A:8:LEU:HD22	1:A:9:CYS:H	2	0.11
(1,838)	1:A:8:LEU:HD23	1:A:9:CYS:H	2	0.11
(1,804)	1:A:3:ARG:HD2	1:A:6:GLU:HG2	16	0.11
(1,804)	1:A:3:ARG:HD2	1:A:6:GLU:HG3	16	0.11
(1,804)	1:A:3:ARG:HD3	1:A:6:GLU:HG2	16	0.11
(1,804)	1:A:3:ARG:HD3	1:A:6:GLU:HG3	16	0.11
(1,492)	1:A:17:LEU:HD11	1:A:58:LEU:HD11	6	0.11
(1,492)	1:A:17:LEU:HD11	1:A:58:LEU:HD12	6	0.11
(1,492)	1:A:17:LEU:HD11	1:A:58:LEU:HD13	6	0.11
(1,492)	1:A:17:LEU:HD12	1:A:58:LEU:HD11	6	0.11
(1,492)	1:A:17:LEU:HD12	1:A:58:LEU:HD12	6	0.11
(1,492)	1:A:17:LEU:HD12	1:A:58:LEU:HD13	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,492)	1:A:17:LEU:HD13	1:A:58:LEU:HD11	6	0.11
(1,492)	1:A:17:LEU:HD13	1:A:58:LEU:HD12	6	0.11
(1,492)	1:A:17:LEU:HD13	1:A:58:LEU:HD13	6	0.11
(1,463)	1:A:47:GLU:H	1:A:57:LEU:HD11	16	0.11
(1,463)	1:A:47:GLU:H	1:A:57:LEU:HD12	16	0.11
(1,463)	1:A:47:GLU:H	1:A:57:LEU:HD13	16	0.11
(1,463)	1:A:47:GLU:H	1:A:57:LEU:HD21	16	0.11
(1,463)	1:A:47:GLU:H	1:A:57:LEU:HD22	16	0.11
(1,463)	1:A:47:GLU:H	1:A:57:LEU:HD23	16	0.11
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD11	13	0.11
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD12	13	0.11
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD13	13	0.11
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD21	13	0.11
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD22	13	0.11
(1,451)	1:A:44:ILE:HD11	1:A:57:LEU:HD23	13	0.11
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD11	13	0.11
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD12	13	0.11
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD13	13	0.11
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD21	13	0.11
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD22	13	0.11
(1,451)	1:A:44:ILE:HD12	1:A:57:LEU:HD23	13	0.11
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD11	13	0.11
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD12	13	0.11
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD13	13	0.11
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD21	13	0.11
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD22	13	0.11
(1,451)	1:A:44:ILE:HD13	1:A:57:LEU:HD23	13	0.11
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD11	17	0.11
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD12	17	0.11
(1,429)	1:A:17:LEU:HD21	1:A:58:LEU:HD13	17	0.11
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD11	17	0.11
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD12	17	0.11
(1,429)	1:A:17:LEU:HD22	1:A:58:LEU:HD13	17	0.11
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD11	17	0.11
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD12	17	0.11
(1,429)	1:A:17:LEU:HD23	1:A:58:LEU:HD13	17	0.11
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG21	9	0.11
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG22	9	0.11
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG23	9	0.11
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG21	9	0.11
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG22	9	0.11
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG23	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG21	9	0.11
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG22	9	0.11
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG23	9	0.11
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG21	9	0.11
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG22	9	0.11
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG23	9	0.11
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG21	9	0.11
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG22	9	0.11
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG23	9	0.11
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG21	9	0.11
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG22	9	0.11
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG23	9	0.11
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG21	11	0.11
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG22	11	0.11
(1,365)	1:A:57:LEU:HD11	1:A:60:THR:HG23	11	0.11
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG21	11	0.11
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG22	11	0.11
(1,365)	1:A:57:LEU:HD12	1:A:60:THR:HG23	11	0.11
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG21	11	0.11
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG22	11	0.11
(1,365)	1:A:57:LEU:HD13	1:A:60:THR:HG23	11	0.11
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG21	11	0.11
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG22	11	0.11
(1,365)	1:A:57:LEU:HD21	1:A:60:THR:HG23	11	0.11
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG21	11	0.11
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG22	11	0.11
(1,365)	1:A:57:LEU:HD22	1:A:60:THR:HG23	11	0.11
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG21	11	0.11
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG22	11	0.11
(1,365)	1:A:57:LEU:HD23	1:A:60:THR:HG23	11	0.11
(1,332)	1:A:35:VAL:HG11	1:A:37:ARG:HG2	4	0.11
(1,332)	1:A:35:VAL:HG11	1:A:37:ARG:HG3	4	0.11
(1,332)	1:A:35:VAL:HG12	1:A:37:ARG:HG2	4	0.11
(1,332)	1:A:35:VAL:HG12	1:A:37:ARG:HG3	4	0.11
(1,332)	1:A:35:VAL:HG13	1:A:37:ARG:HG2	4	0.11
(1,332)	1:A:35:VAL:HG13	1:A:37:ARG:HG3	4	0.11
(1,332)	1:A:35:VAL:HG11	1:A:37:ARG:HG2	6	0.11
(1,332)	1:A:35:VAL:HG11	1:A:37:ARG:HG3	6	0.11
(1,332)	1:A:35:VAL:HG12	1:A:37:ARG:HG2	6	0.11
(1,332)	1:A:35:VAL:HG12	1:A:37:ARG:HG3	6	0.11
(1,332)	1:A:35:VAL:HG13	1:A:37:ARG:HG2	6	0.11
(1,332)	1:A:35:VAL:HG13	1:A:37:ARG:HG3	6	0.11

10 Dihedral-angle violation analysis [i](#)

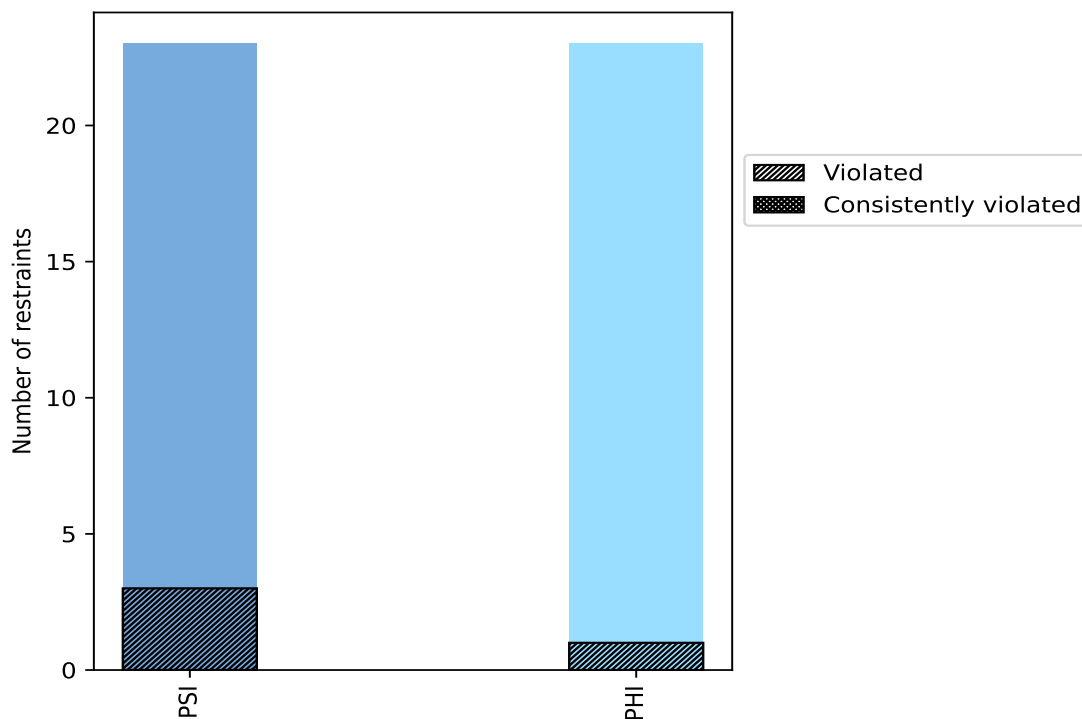
10.1 Summary of dihedral-angle violations [i](#)

The following table provides the summary of dihedral-angle violations in different dihedral-angle types. Violations less than 1° are not included in the calculation.

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PSI	23	50.0	3	13.0	6.5	0	0.0	0.0
PHI	23	50.0	1	4.3	2.2	0	0.0	0.0
Total	46	100.0	4	8.7	8.7	0	0.0	0.0

¹ percentage calculated with respect to total number of dihedral-angle restraints, ² percentage calculated with respect to number of restraints in a particular dihedral-angle type, ³ violated in at least one model, ⁴ violated in all the models

10.1.1 Bar chart : Distribution of dihedral-angles and violations [i](#)



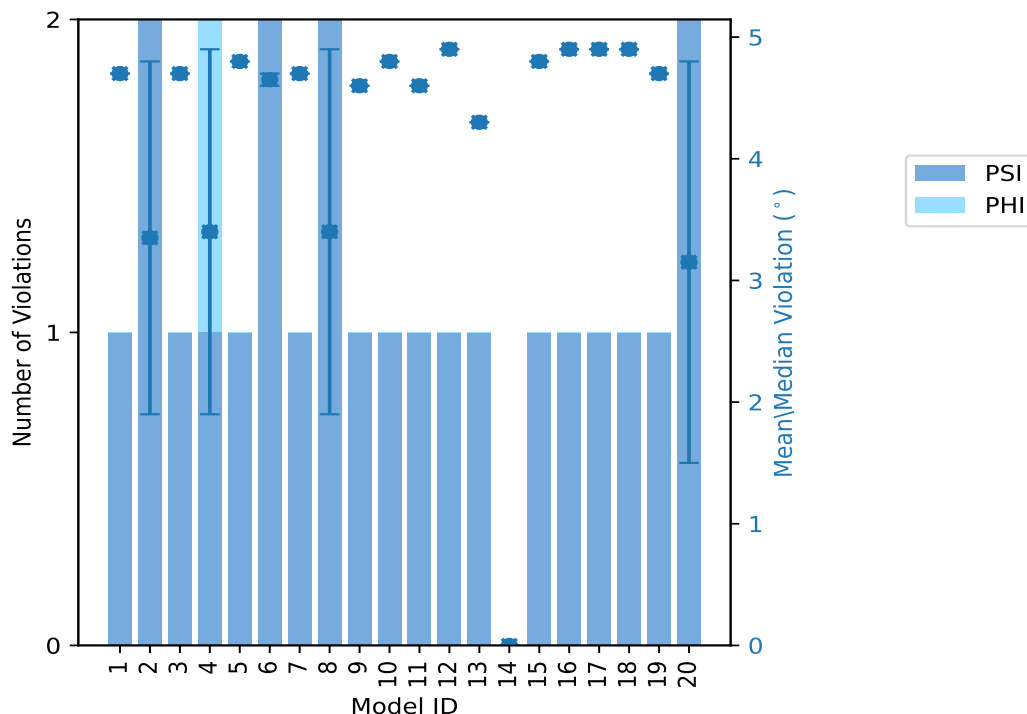
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model [i](#)

The following table provides the dihedral-angle violation statistics for each model in the ensemble. Violations less than 1° are not included in the statistics.

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	Total				
1	1	0	1	4.7	4.7	0.0	4.7
2	2	0	2	3.35	4.8	1.45	3.35
3	1	0	1	4.7	4.7	0.0	4.7
4	1	1	2	3.4	4.9	1.5	3.4
5	1	0	1	4.8	4.8	0.0	4.8
6	2	0	2	4.65	4.7	0.05	4.65
7	1	0	1	4.7	4.7	0.0	4.7
8	2	0	2	3.4	4.9	1.5	3.4
9	1	0	1	4.6	4.6	0.0	4.6
10	1	0	1	4.8	4.8	0.0	4.8
11	1	0	1	4.6	4.6	0.0	4.6
12	1	0	1	4.9	4.9	0.0	4.9
13	1	0	1	4.3	4.3	0.0	4.3
14	0	0	0	0.0	0.0	0.0	0.0
15	1	0	1	4.8	4.8	0.0	4.8
16	1	0	1	4.9	4.9	0.0	4.9
17	1	0	1	4.9	4.9	0.0	4.9
18	1	0	1	4.9	4.9	0.0	4.9
19	1	0	1	4.7	4.7	0.0	4.7
20	2	0	2	3.15	4.8	1.65	3.15

10.2.1 Bar graph : Dihedral violation statistics for each model [i](#)



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

10.3 Dihedral-angle violation statistics for the ensemble [i](#)

Violation analysis may find that some restraints are violated in very few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of ensemble.

Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count ¹	%
1	1	2	1	5.0
0	0	0	2	10.0
0	0	0	3	15.0
1	0	1	4	20.0
0	0	0	5	25.0
0	0	0	6	30.0
0	0	0	7	35.0
0	0	0	8	40.0
0	0	0	9	45.0
0	0	0	10	50.0
0	0	0	11	55.0

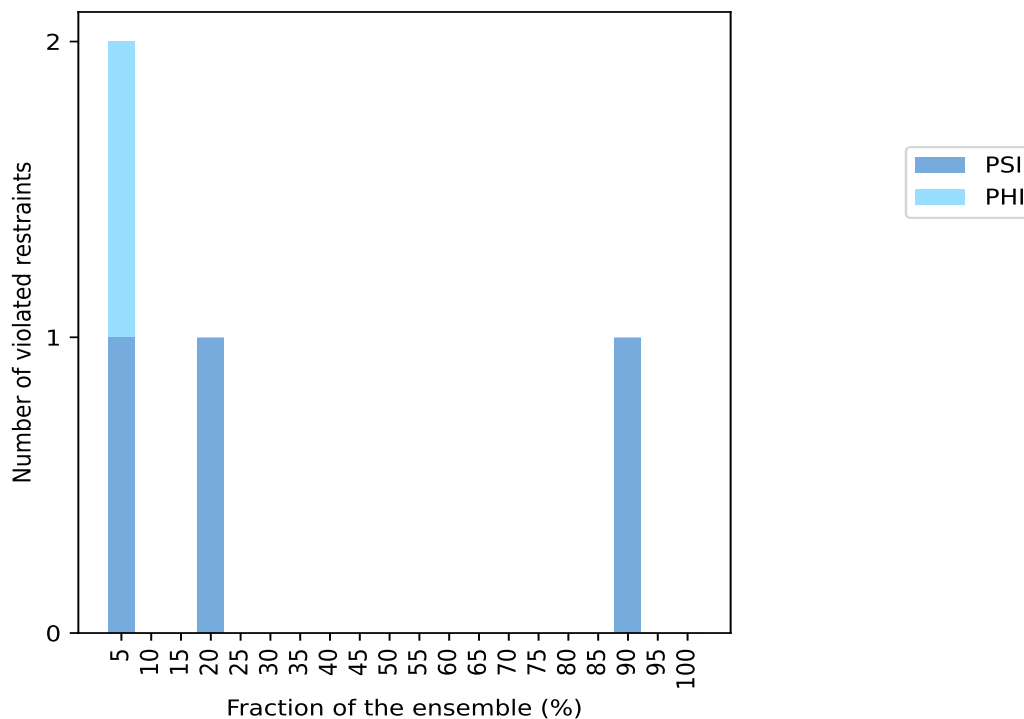
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Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count ¹	%
0	0	0	12	60.0
0	0	0	13	65.0
0	0	0	14	70.0
0	0	0	15	75.0
0	0	0	16	80.0
0	0	0	17	85.0
1	0	1	18	90.0
0	0	0	19	95.0
0	0	0	20	100.0

¹ Number of models with violations

10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)

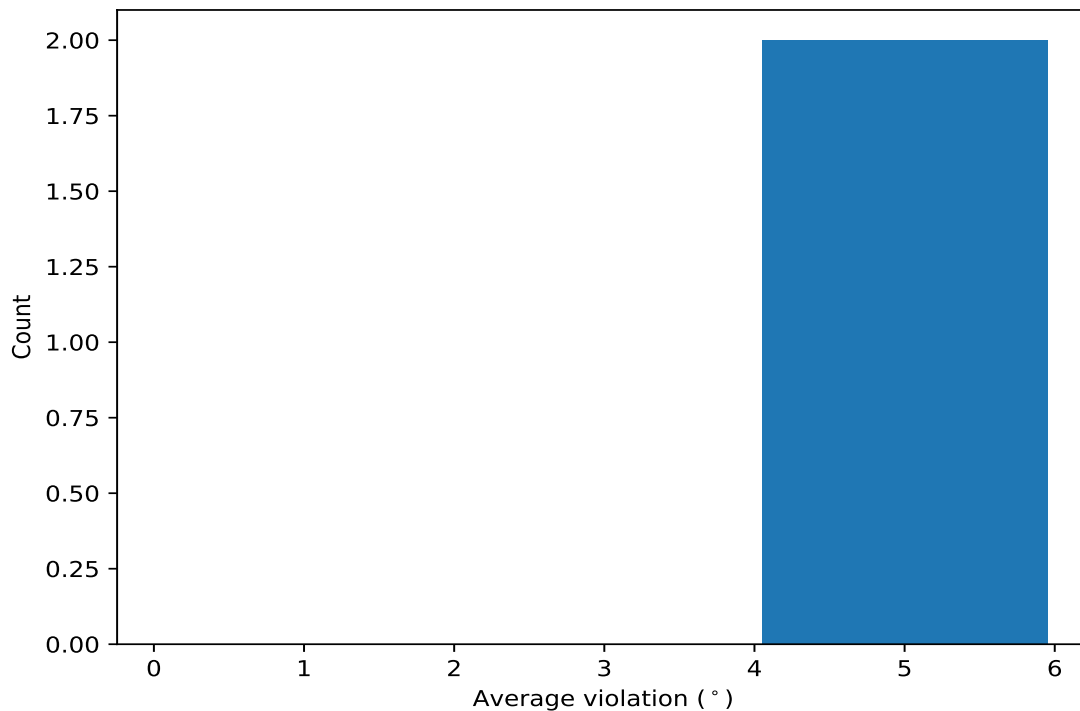


10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

10.4.1 Histogram : Distribution of mean dihedral-angle violations [i](#)

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

in the ensemble



10.4.2 Table: Most violated dihedral-angle restraints [i](#)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

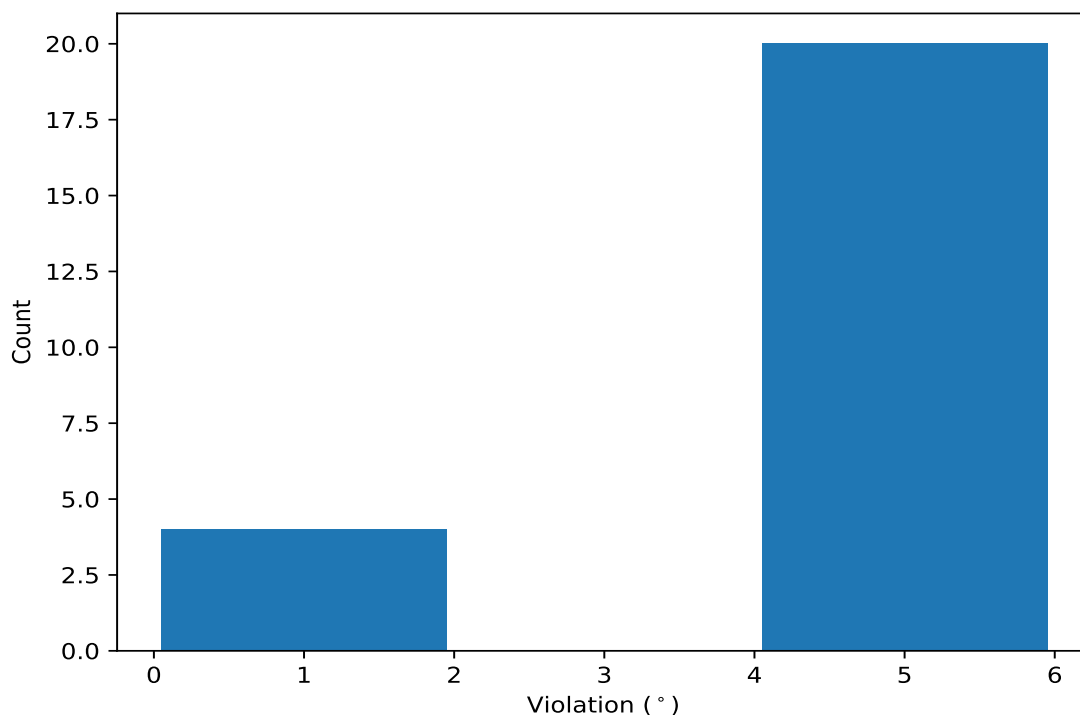
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	18	4.41	0.97	4.75
(1,28)	1:A:45:VAL:N	1:A:45:VAL:CA	1:A:45:VAL:C	1:A:46:GLU:N	4	4.78	0.08	4.75

¹ Number of violated models, ²Standard deviation, All angle values are in degree (°)

10.5 All violated dihedral-angle restraints [i](#)

10.5.1 Histogram : Distribution of violations [i](#)

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



10.5.2 Table: All violated dihedral-angle restraints [i](#)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	4	4.9
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	12	4.9
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	16	4.9
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	17	4.9
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	18	4.9
(1,28)	1:A:45:VAL:N	1:A:45:VAL:CA	1:A:45:VAL:C	1:A:46:GLU:N	8	4.9
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	2	4.8
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	5	4.8
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	10	4.8
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	15	4.8
(1,28)	1:A:45:VAL:N	1:A:45:VAL:CA	1:A:45:VAL:C	1:A:46:GLU:N	20	4.8
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	1	4.7
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	3	4.7
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	19	4.7
(1,28)	1:A:45:VAL:N	1:A:45:VAL:CA	1:A:45:VAL:C	1:A:46:GLU:N	6	4.7
(1,28)	1:A:45:VAL:N	1:A:45:VAL:CA	1:A:45:VAL:C	1:A:46:GLU:N	7	4.7
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	6	4.6
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	9	4.6
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	11	4.6
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	13	4.3
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	8	1.9

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,30)	1:A:46:GLU:N	1:A:46:GLU:CA	1:A:46:GLU:C	1:A:47:GLU:N	2	1.9
(1,19)	1:A:23:ASP:C	1:A:24:ARG:N	1:A:24:ARG:CA	1:A:24:ARG:C	4	1.9
(1,44)	1:A:60:THR:N	1:A:60:THR:CA	1:A:60:THR:C	1:A:61:TYR:N	20	1.5