



Full wwPDB NMR Structure Validation Report ⓘ

Mar 6, 2026 – 09:56 AM UTC

PDB ID : 5N9Q / pdb_00005n9q
BMRB ID : 27034
Title : Structure of A. thaliana RCD1(468-567)
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Deposited on : 2017-02-27

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<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 : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
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) : 2.49

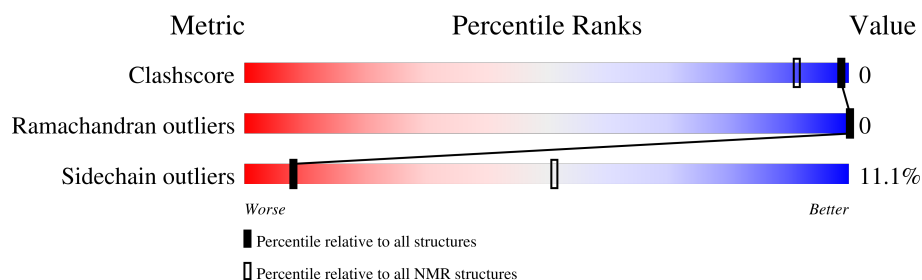
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 88%.

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	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

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	128	

2 Ensemble composition and analysis

This entry contains 15 models. Model 1 is the overall representative, medoid model (most similar to other models).

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:513-A:562 (50)	0.58	1

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 4 clusters and 3 single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1960 atoms, of which 983 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Inactive poly [ADP-ribose] polymerase RCD1.

Mol	Chain	Residues	Atoms						Trace
1	A	128	Total	C	H	N	O	S	0
			1960	606	983	176	191	4	

There are 6 discrepancies between the modelled and reference sequences:

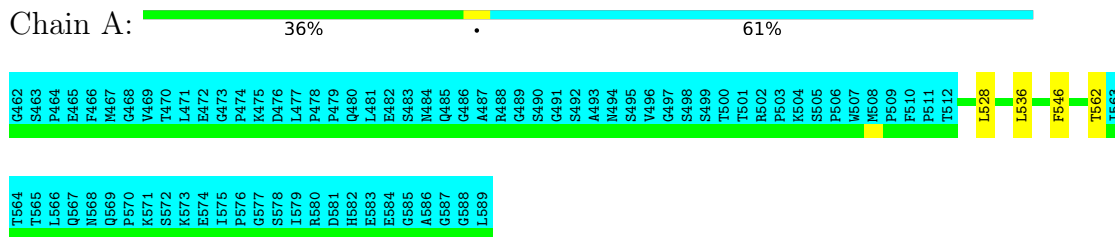
Chain	Residue	Modelled	Actual	Comment	Reference
A	462	GLY	-	expression tag	UNP Q8RY59
A	463	SER	-	expression tag	UNP Q8RY59
A	464	PRO	-	expression tag	UNP Q8RY59
A	465	GLU	-	expression tag	UNP Q8RY59
A	466	PHE	-	expression tag	UNP Q8RY59
A	467	MET	-	expression tag	UNP Q8RY59

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: Inactive poly [ADP-ribose] polymerase RCD1



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 (medoid)

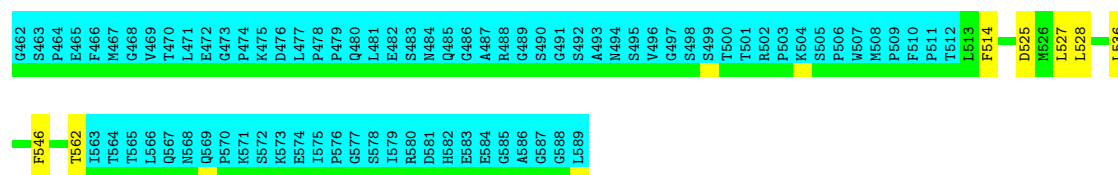
- Molecule 1: Inactive poly [ADP-ribose] polymerase RCD1



4.2.2 Score per residue for model 2

- Molecule 1: Inactive poly [ADP-ribose] polymerase RCD1

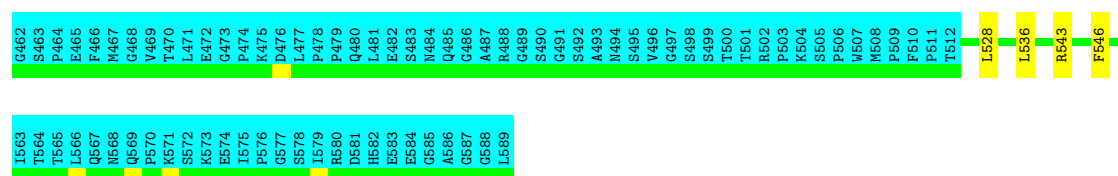




4.2.3 Score per residue for model 3

- Molecule 1: Inactive poly [ADP-ribose] polymerase RCD1

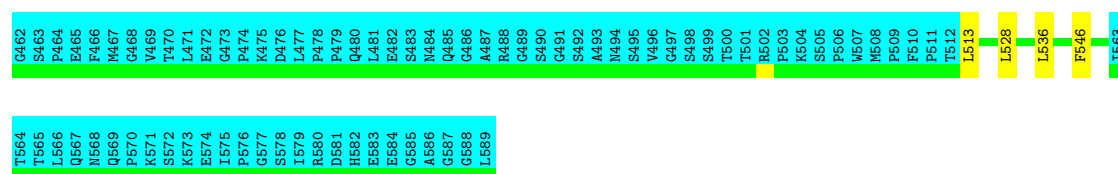
Chain A: 36% 61%



4.2.4 Score per residue for model 4

- Molecule 1: Inactive poly [ADP-ribose] polymerase RCD1

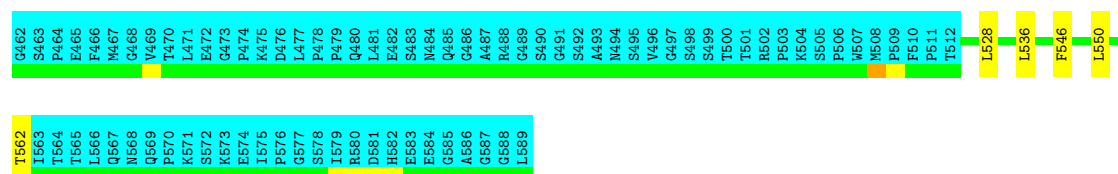
Chain A: 36% 61%



4.2.5 Score per residue for model 5

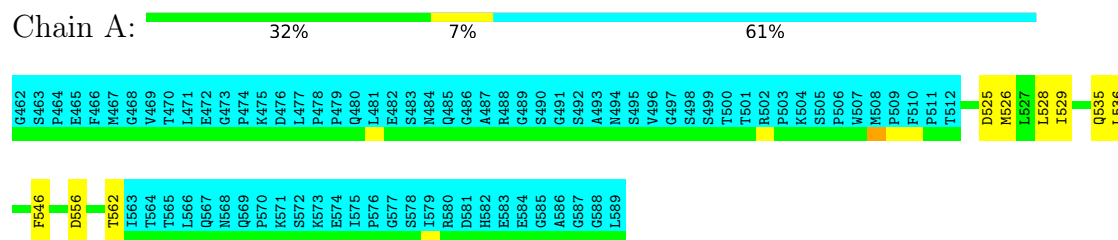
- Molecule 1: Inactive poly [ADP-ribose] polymerase RCD1

Chain A: 35% 61%



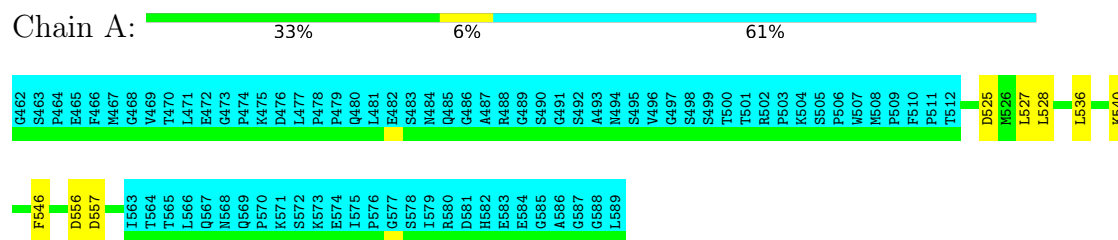
4.2.6 Score per residue for model 6

- Molecule 1: Inactive poly [ADP-ribose] polymerase RCD1



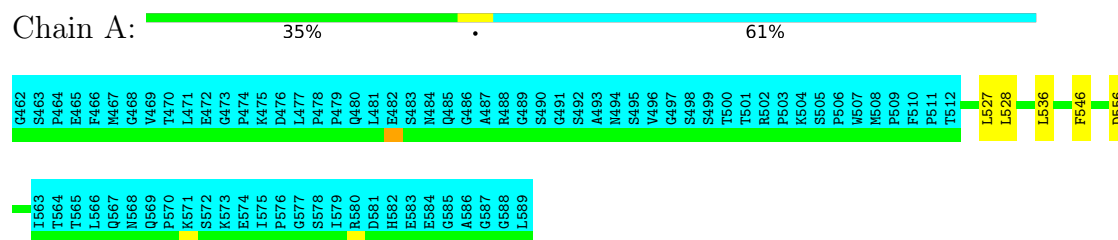
4.2.7 Score per residue for model 7

- Molecule 1: Inactive poly [ADP-ribose] polymerase RCD1



4.2.8 Score per residue for model 8

- Molecule 1: Inactive poly [ADP-ribose] polymerase RCD1



4.2.9 Score per residue for model 9

- Molecule 1: Inactive poly [ADP-ribose] polymerase RCD1



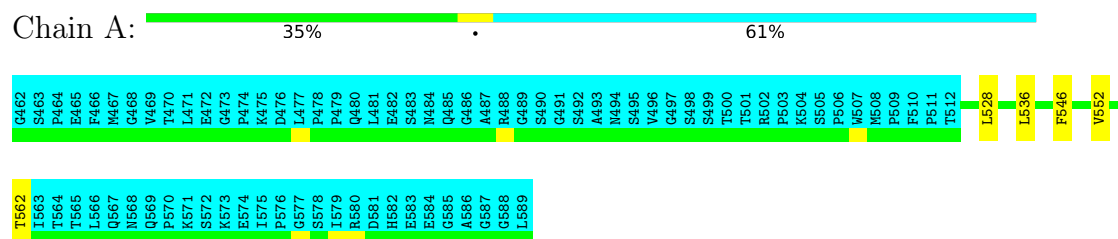
4.2.10 Score per residue for model 10

- Molecule 1: Inactive poly [ADP-ribose] polymerase RCD1



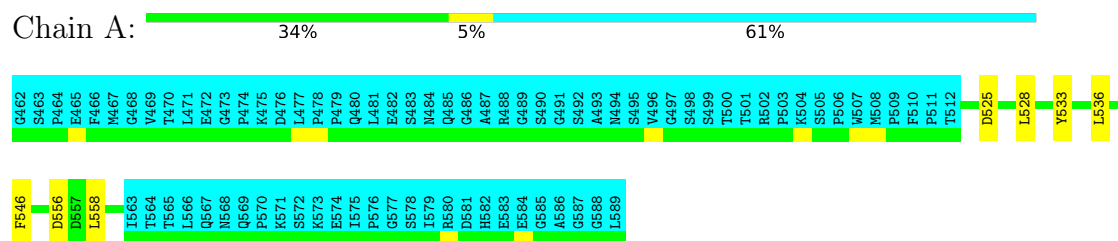
4.2.11 Score per residue for model 11

- Molecule 1: Inactive poly [ADP-ribose] polymerase RCD1



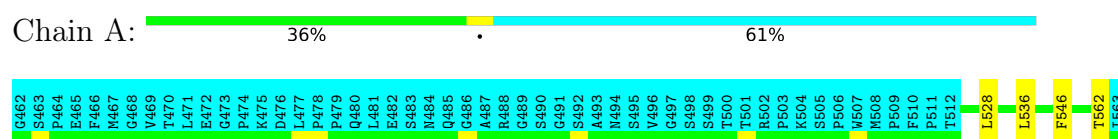
4.2.12 Score per residue for model 12

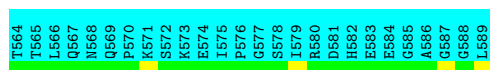
- Molecule 1: Inactive poly [ADP-ribose] polymerase RCD1



4.2.13 Score per residue for model 13

- Molecule 1: Inactive poly [ADP-ribose] polymerase RCD1

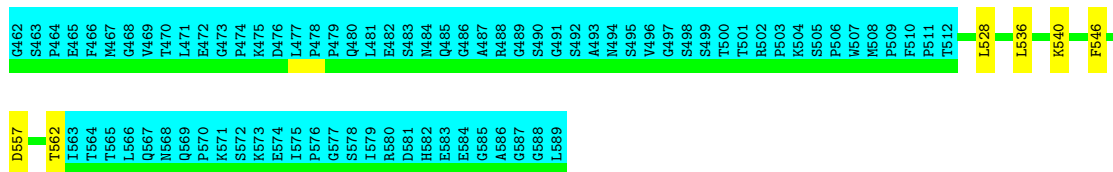




4.2.14 Score per residue for model 14

- Molecule 1: Inactive poly [ADP-ribose] polymerase RCD1

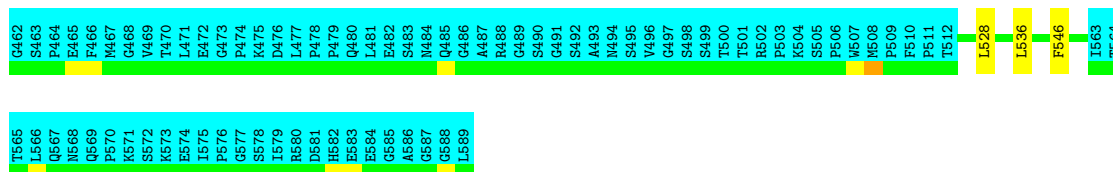
Chain A: 34% 5% 61%



4.2.15 Score per residue for model 15

- Molecule 1: Inactive poly [ADP-ribose] polymerase RCD1

Chain A: 37% . 61%



5 Refinement protocol and experimental data overview

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

Of the 300 calculated structures, 15 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	
Amber	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	1434
Number of shifts mapped to atoms	1434
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	88%

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	0.87±0.02	0±0/410 (0.0± 0.0%)	1.44±0.04	1±2/550 (0.2± 0.3%)
All	All	0.87	0/6150 (0.0%)	1.44	18/8250 (0.2%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	0.1±0.3
All	All	0	2

There are no bond-length outliers.

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	557	ASP	CA-CB-CG	6.70	119.30	112.60	1	3
1	A	527	LEU	CA-C-N	6.16	128.45	120.44	1	4
1	A	527	LEU	C-N-CA	6.16	128.45	120.44	1	4
1	A	535	GLN	OE1-CD-NE2	-5.60	117.00	122.60	6	1
1	A	556	ASP	CA-CB-CG	5.58	118.18	112.60	6	3
1	A	514	PHE	CA-CB-CG	5.34	119.14	113.80	2	1
1	A	556	ASP	CA-C-N	5.14	127.17	120.28	7	1
1	A	556	ASP	C-N-CA	5.14	127.17	120.28	7	1

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	A	537	ARG	Sidechain	1
1	A	533	TYR	Sidechain	1

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	406	427	427	0±0
All	All	6090	6405	6405	1

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 0.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:526:MET:HA	1:A:529:ILE:HD12	0.47	1.85	6	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	50/128 (39%)	48±1 (97±2%)	2±1 (3±2%)	0±0 (0±0%)	100	100
All	All	750/1920 (39%)	727 (97%)	23 (3%)	0 (0%)	100	100

There are no Ramachandran outliers.

6.3.2 Protein sidechains ⓘ

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	44/108 (41%)	39±1 (89±3%)	5±1 (11±3%)	8 51
All	All	660/1620 (41%)	587 (89%)	73 (11%)	8 51

All 16 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	528	LEU	15
1	A	536	LEU	15
1	A	546	PHE	15
1	A	562	THR	8
1	A	525	ASP	5
1	A	540	LYS	4
1	A	559	LEU	2
1	A	539	LYS	1
1	A	556	ASP	1
1	A	543	ARG	1
1	A	513	LEU	1
1	A	550	LEU	1
1	A	548	ARG	1
1	A	551	ARG	1
1	A	552	VAL	1
1	A	558	LEU	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

6.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides 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 [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation [i](#)

The completeness of assignment taking into account all chemical shift lists is 88% for the well-defined parts and 84% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *RST.bmr.b.v3.1*

7.1.1 Bookkeeping [i](#)

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

Total number of shifts	1434
Number of shifts mapped to atoms	1434
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	120	-0.16 ± 0.10	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	109	0.23 ± 0.14	None needed (< 0.5 ppm)
$^{13}\text{C}'$	114	-0.13 ± 0.06	None needed (< 0.5 ppm)
^{15}N	114	-0.38 ± 0.26	None needed (< 0.5 ppm)

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 88%, i.e. 650 atoms were assigned a chemical shift out of a possible 737. 0 out of 11 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	243/251 (97%)	99/101 (98%)	96/100 (96%)	48/50 (96%)
Sidechain	385/450 (86%)	267/292 (91%)	114/135 (84%)	4/23 (17%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	22/36 (61%)	15/18 (83%)	7/17 (41%)	0/1 (0%)
Overall	650/737 (88%)	381/411 (93%)	217/252 (86%)	52/74 (70%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 84%, i.e. 1426 atoms were assigned a chemical shift out of a possible 1698. 0 out of 18 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	576/632 (91%)	235/258 (91%)	234/256 (91%)	107/118 (91%)
Sidechain	809/991 (82%)	550/642 (86%)	251/306 (82%)	8/43 (19%)
Aromatic	41/75 (55%)	25/38 (66%)	15/34 (44%)	1/3 (33%)
Overall	1426/1698 (84%)	810/938 (86%)	500/596 (84%)	116/164 (71%)

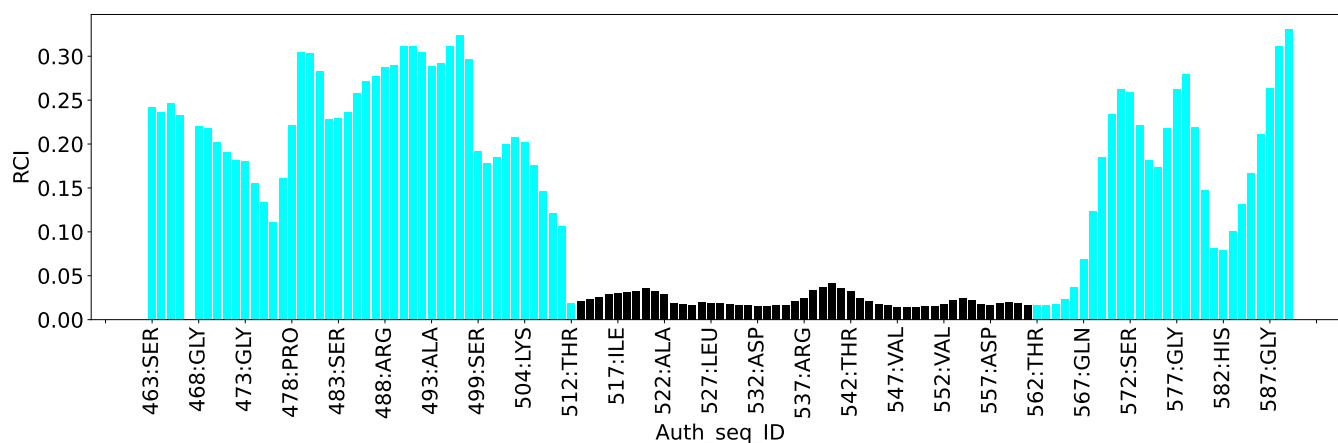
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis [i](#)

8.1 Conformationally restricting restraints [i](#)

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	1231
Intra-residue ($ i-j =0$)	360
Sequential ($ i-j =1$)	428
Medium range ($ i-j >1$ and $ i-j <5$)	301
Long range ($ i-j \geq 5$)	142
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	110
Number of unmapped restraints	0
Number of restraints per residue	10.5
Number of long range restraints per residue ¹	1.1

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 [i](#)

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 [i](#)

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)	5.7	0.2
0.2-0.5 (Medium)	6.3	0.5
>0.5 (Large)	4.9	1.53

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)	5.0	10.0
10.0-20.0 (Medium)	1.9	17.97
>20.0 (Large)	0.3	72.58

9 Distance violation analysis

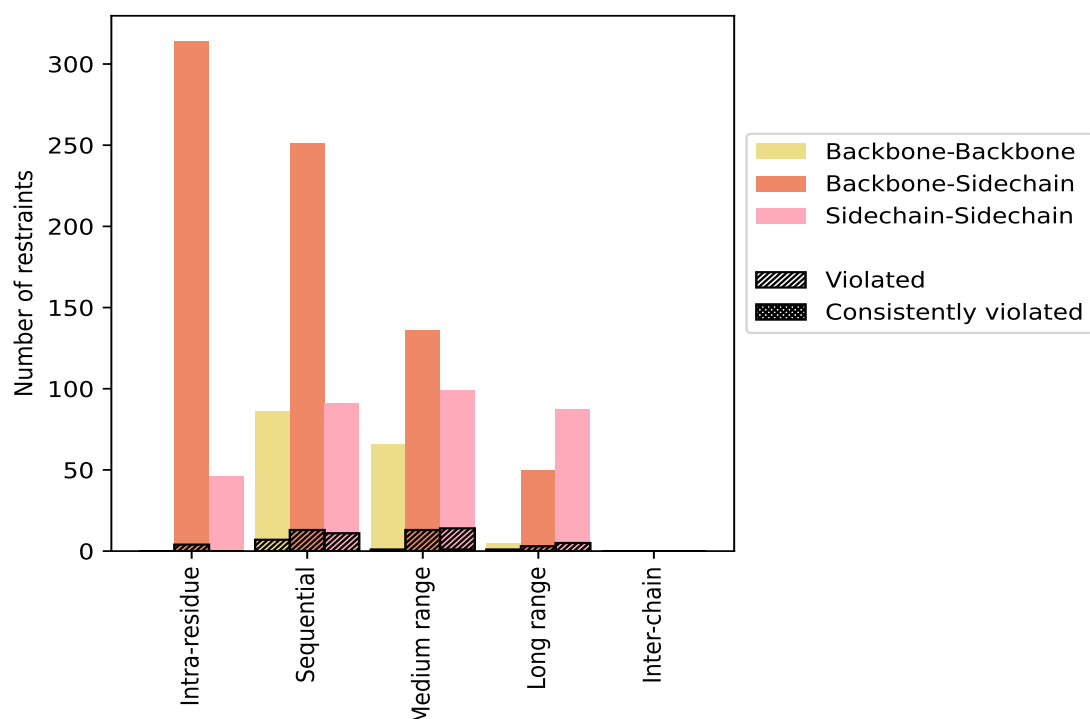
9.1 Summary of distance violations

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 ($i-j =0$)	360	29.2	4	1.1	0.3	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	314	25.5	4	1.3	0.3	0	0.0	0.0
Sidechain-Sidechain	46	3.7	0	0.0	0.0	0	0.0	0.0
Sequential ($i-j =1$)	428	34.8	31	7.2	2.5	0	0.0	0.0
Backbone-Backbone	86	7.0	7	8.1	0.6	0	0.0	0.0
Backbone-Sidechain	251	20.4	13	5.2	1.1	0	0.0	0.0
Sidechain-Sidechain	91	7.4	11	12.1	0.9	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	301	24.5	28	9.3	2.3	1	0.3	0.1
Backbone-Backbone	66	5.4	1	1.5	0.1	0	0.0	0.0
Backbone-Sidechain	136	11.0	13	9.6	1.1	0	0.0	0.0
Sidechain-Sidechain	99	8.0	14	14.1	1.1	1	1.0	0.1
Long range ($i-j \geq 5$)	142	11.5	9	6.3	0.7	0	0.0	0.0
Backbone-Backbone	5	0.4	1	20.0	0.1	0	0.0	0.0
Backbone-Sidechain	50	4.1	3	6.0	0.2	0	0.0	0.0
Sidechain-Sidechain	87	7.1	5	5.7	0.4	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	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1231	100.0	72	5.8	5.8	1	0.1	0.1
Backbone-Backbone	157	12.8	9	5.7	0.7	0	0.0	0.0
Backbone-Sidechain	751	61.0	33	4.4	2.7	0	0.0	0.0
Sidechain-Sidechain	323	26.2	30	9.3	2.4	1	0.3	0.1

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 disulfied 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	6	7	2	0	15	0.49	0.97	0.25	0.54
2	0	12	8	1	0	21	0.41	1.53	0.32	0.31
3	1	7	11	2	0	21	0.37	1.26	0.27	0.29
4	2	6	7	2	0	17	0.45	1.31	0.32	0.42
5	0	6	10	0	0	16	0.44	1.12	0.29	0.38
6	0	10	9	3	0	22	0.34	1.19	0.29	0.21
7	0	8	5	5	0	18	0.37	1.22	0.31	0.22
8	0	6	7	0	0	13	0.32	0.8	0.24	0.16
9	0	11	6	1	0	18	0.33	1.11	0.26	0.26
10	1	9	4	3	0	17	0.46	1.31	0.33	0.35

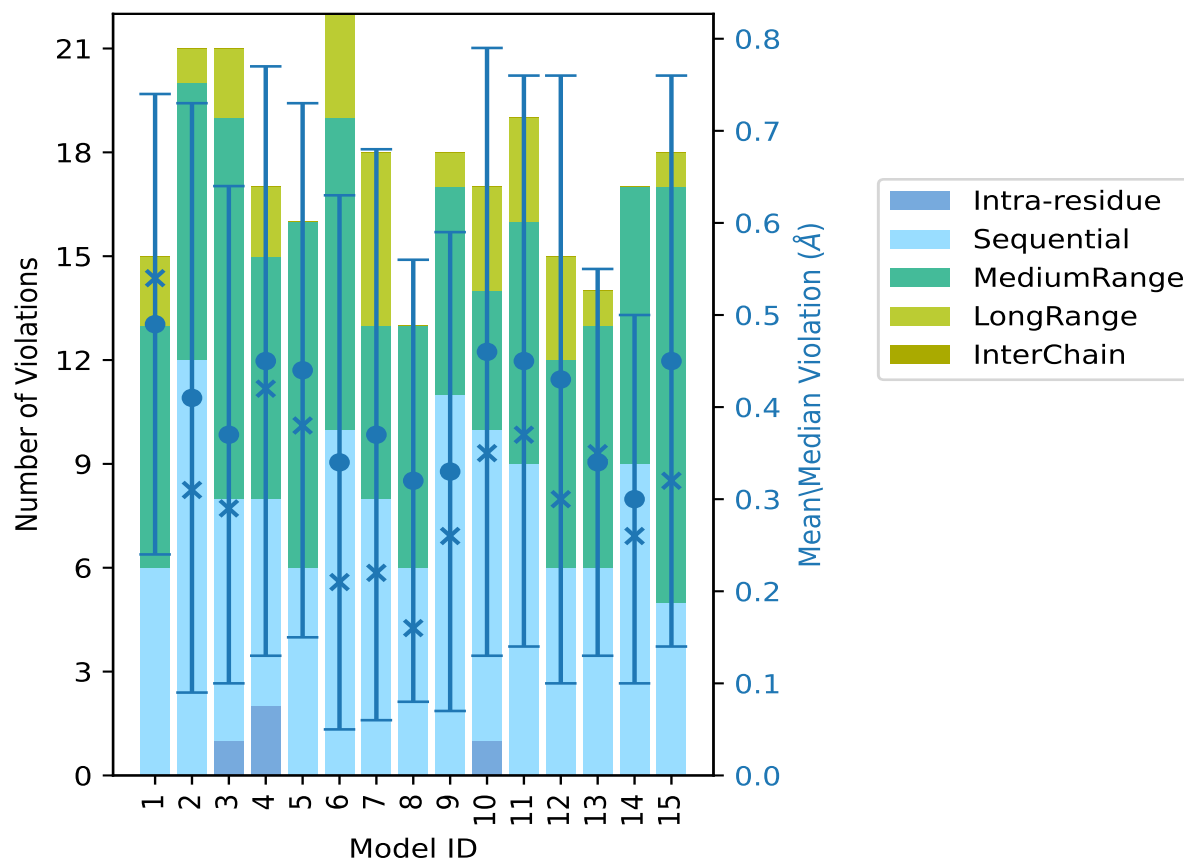
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	0	9	7	3	0	19	0.45	1.44	0.31	0.37
12	0	6	6	3	0	15	0.43	1.23	0.33	0.3
13	0	6	7	1	0	14	0.34	0.78	0.21	0.35
14	0	9	8	0	0	17	0.3	0.84	0.2	0.26
15	0	5	12	1	0	18	0.45	1.13	0.31	0.32

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

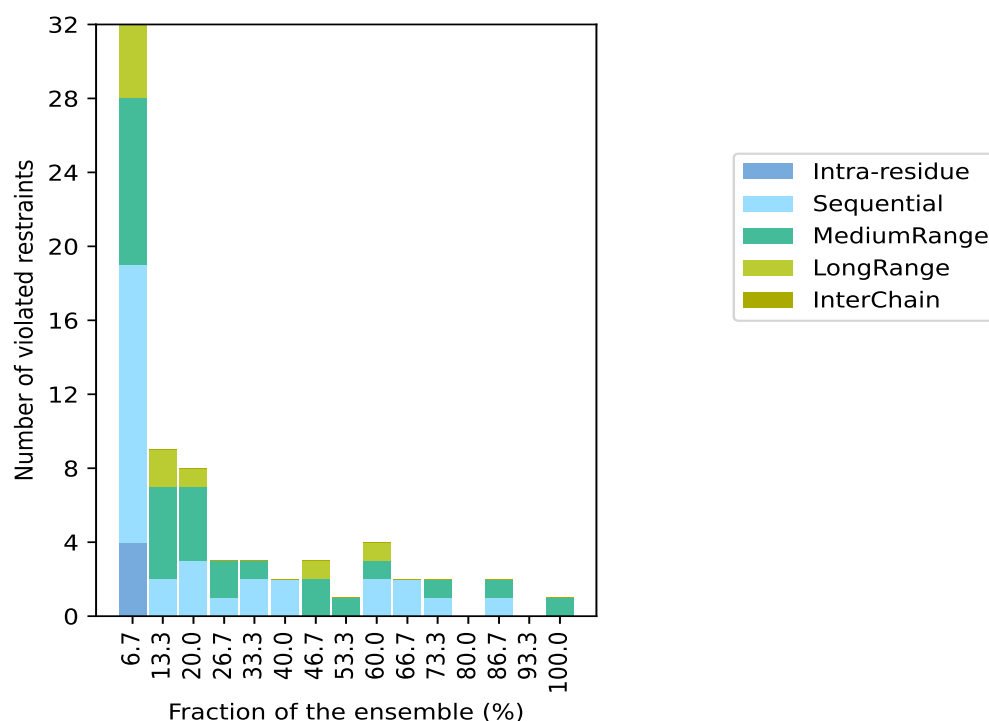
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1159(IR:356, SQ:397, MR:273, LR:133, IC:0) restraints are 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	%
4	15	9	4	0	32	1	6.7
0	2	5	2	0	9	2	13.3
0	3	4	1	0	8	3	20.0
0	1	2	0	0	3	4	26.7
0	2	1	0	0	3	5	33.3
0	2	0	0	0	2	6	40.0
0	0	2	1	0	3	7	46.7
0	0	1	0	0	1	8	53.3
0	2	1	1	0	4	9	60.0
0	2	0	0	0	2	10	66.7
0	1	1	0	0	2	11	73.3
0	0	0	0	0	0	12	80.0
0	1	1	0	0	2	13	86.7
0	0	0	0	0	0	14	93.3
0	0	1	0	0	1	15	100.0

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints,

⁵Inter-chain restraints, ⁶ Number of models with violations

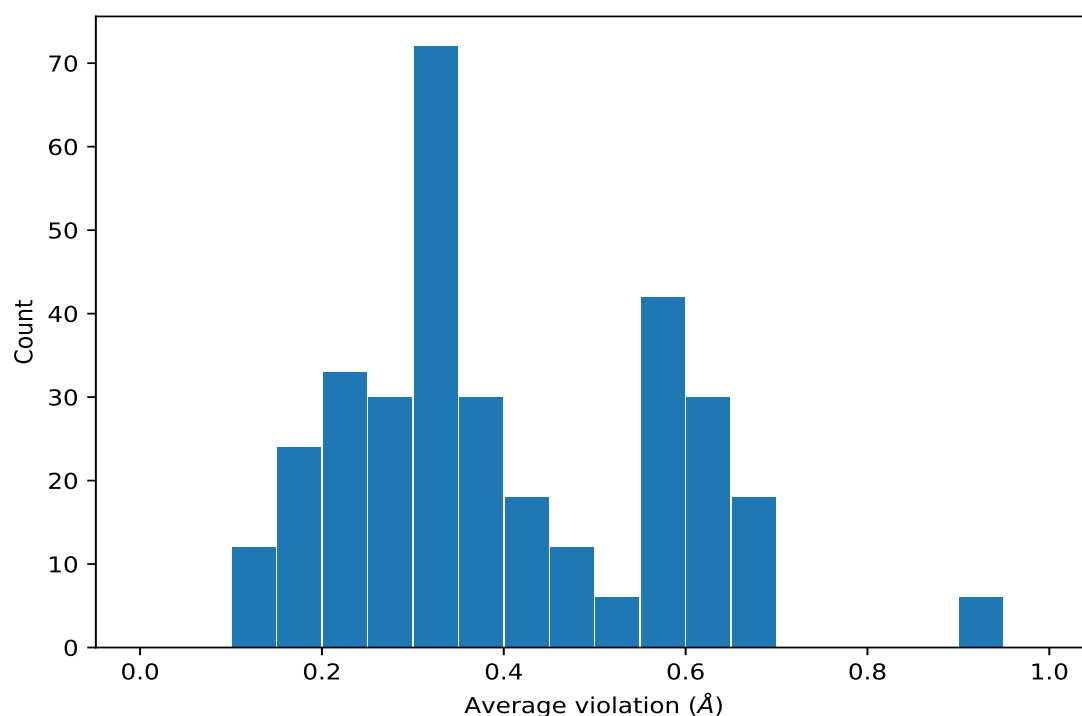
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD11	15	0.57	0.13	0.63
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD12	15	0.57	0.13	0.63
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD13	15	0.57	0.13	0.63
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD21	15	0.57	0.13	0.63
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD22	15	0.57	0.13	0.63
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD23	15	0.57	0.13	0.63
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD11	15	0.57	0.13	0.63
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD12	15	0.57	0.13	0.63
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD13	15	0.57	0.13	0.63
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD21	15	0.57	0.13	0.63
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD22	15	0.57	0.13	0.63
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD23	15	0.57	0.13	0.63
(1,1144)	1:550:A:LEU:HD11	1:551:A:ARG:HA	13	0.94	0.48	1.19
(1,1144)	1:550:A:LEU:HD12	1:551:A:ARG:HA	13	0.94	0.48	1.19
(1,1144)	1:550:A:LEU:HD13	1:551:A:ARG:HA	13	0.94	0.48	1.19
(1,1144)	1:550:A:LEU:HD21	1:551:A:ARG:HA	13	0.94	0.48	1.19

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1144)	1:550:A:LEU:HD22	1:551:A:ARG:HA	13	0.94	0.48	1.19
(1,1144)	1:550:A:LEU:HD23	1:551:A:ARG:HA	13	0.94	0.48	1.19
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG11	13	0.63	0.24	0.63
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG12	13	0.63	0.24	0.63
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG13	13	0.63	0.24	0.63
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG21	13	0.63	0.24	0.63
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG22	13	0.63	0.24	0.63
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG23	13	0.63	0.24	0.63
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG2	11	0.57	0.37	0.5
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG3	11	0.57	0.37	0.5
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG2	11	0.57	0.37	0.5
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG3	11	0.57	0.37	0.5
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG2	11	0.57	0.37	0.5
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG3	11	0.57	0.37	0.5
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG2	11	0.57	0.37	0.5
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG3	11	0.57	0.37	0.5
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG2	11	0.57	0.37	0.5
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG3	11	0.57	0.37	0.5
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG2	11	0.57	0.37	0.5
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG3	11	0.57	0.37	0.5
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG11	11	0.3	0.1	0.31
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG12	11	0.3	0.1	0.31
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG13	11	0.3	0.1	0.31
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG21	11	0.3	0.1	0.31
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG22	11	0.3	0.1	0.31
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG23	11	0.3	0.1	0.31
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB2	10	0.41	0.27	0.33
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB3	10	0.41	0.27	0.33
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB2	10	0.41	0.27	0.33
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB3	10	0.41	0.27	0.33
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB2	10	0.41	0.27	0.33
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB3	10	0.41	0.27	0.33
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB2	10	0.41	0.27	0.33
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB3	10	0.41	0.27	0.33
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB2	10	0.41	0.27	0.33
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB3	10	0.41	0.27	0.33
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB2	10	0.41	0.27	0.33
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB3	10	0.41	0.27	0.33
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD11	10	0.33	0.13	0.32
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD12	10	0.33	0.13	0.32
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD13	10	0.33	0.13	0.32
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD21	10	0.33	0.13	0.32

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD22	10	0.33	0.13	0.32
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD23	10	0.33	0.13	0.32
(1,1150)	1:550:A:LEU:HD11	1:556:A:ASP:HA	9	0.64	0.25	0.64
(1,1150)	1:550:A:LEU:HD12	1:556:A:ASP:HA	9	0.64	0.25	0.64
(1,1150)	1:550:A:LEU:HD13	1:556:A:ASP:HA	9	0.64	0.25	0.64
(1,1150)	1:550:A:LEU:HD21	1:556:A:ASP:HA	9	0.64	0.25	0.64
(1,1150)	1:550:A:LEU:HD22	1:556:A:ASP:HA	9	0.64	0.25	0.64
(1,1150)	1:550:A:LEU:HD23	1:556:A:ASP:HA	9	0.64	0.25	0.64
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG11	9	0.34	0.13	0.34
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG12	9	0.34	0.13	0.34
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG13	9	0.34	0.13	0.34
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG21	9	0.34	0.13	0.34
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG22	9	0.34	0.13	0.34
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG23	9	0.34	0.13	0.34
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG11	9	0.34	0.13	0.34
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG12	9	0.34	0.13	0.34
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG13	9	0.34	0.13	0.34
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG21	9	0.34	0.13	0.34
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG22	9	0.34	0.13	0.34
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG23	9	0.34	0.13	0.34
(1,688)	1:567:A:GLN:HA	1:568:A:ASN:HB3	9	0.12	0.02	0.12
(1,633)	1:527:A:LEU:H	1:528:A:LEU:HG	9	0.12	0.01	0.11
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD21	8	0.36	0.19	0.34
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD22	8	0.36	0.19	0.34
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD21	8	0.36	0.19	0.34
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD22	8	0.36	0.19	0.34
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD21	8	0.36	0.19	0.34
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD22	8	0.36	0.19	0.34
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD21	8	0.36	0.19	0.34
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD22	8	0.36	0.19	0.34
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD21	8	0.36	0.19	0.34
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD22	8	0.36	0.19	0.34
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD21	8	0.36	0.19	0.34
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD22	8	0.36	0.19	0.34
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE1	7	0.61	0.12	0.67
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE2	7	0.61	0.12	0.67
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE3	7	0.61	0.12	0.67
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE1	7	0.61	0.12	0.67
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE2	7	0.61	0.12	0.67
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE3	7	0.61	0.12	0.67
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE1	7	0.61	0.12	0.67
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE2	7	0.61	0.12	0.67

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE3	7	0.61	0.12	0.67
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE1	7	0.61	0.12	0.67
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE2	7	0.61	0.12	0.67
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE3	7	0.61	0.12	0.67
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE1	7	0.61	0.12	0.67
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE2	7	0.61	0.12	0.67
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE3	7	0.61	0.12	0.67
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE1	7	0.61	0.12	0.67
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE2	7	0.61	0.12	0.67
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE3	7	0.61	0.12	0.67
(1,989)	1:513:A:LEU:HD11	1:517:A:ILE:H	7	0.53	0.33	0.51
(1,989)	1:513:A:LEU:HD12	1:517:A:ILE:H	7	0.53	0.33	0.51
(1,989)	1:513:A:LEU:HD13	1:517:A:ILE:H	7	0.53	0.33	0.51
(1,989)	1:513:A:LEU:HD21	1:517:A:ILE:H	7	0.53	0.33	0.51
(1,989)	1:513:A:LEU:HD22	1:517:A:ILE:H	7	0.53	0.33	0.51
(1,989)	1:513:A:LEU:HD23	1:517:A:ILE:H	7	0.53	0.33	0.51
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB1	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB2	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB3	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB1	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB2	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB3	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB1	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB2	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB3	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB1	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB2	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB3	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB1	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB2	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB3	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB1	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB2	7	0.32	0.11	0.35
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB3	7	0.32	0.11	0.35
(1,984)	1:513:A:LEU:HD11	1:514:A:PHE:HA	6	0.4	0.17	0.38
(1,984)	1:513:A:LEU:HD12	1:514:A:PHE:HA	6	0.4	0.17	0.38
(1,984)	1:513:A:LEU:HD13	1:514:A:PHE:HA	6	0.4	0.17	0.38
(1,984)	1:513:A:LEU:HD21	1:514:A:PHE:HA	6	0.4	0.17	0.38
(1,984)	1:513:A:LEU:HD22	1:514:A:PHE:HA	6	0.4	0.17	0.38
(1,984)	1:513:A:LEU:HD23	1:514:A:PHE:HA	6	0.4	0.17	0.38
(1,1143)	1:550:A:LEU:HD11	1:551:A:ARG:H	6	0.24	0.06	0.23
(1,1143)	1:550:A:LEU:HD12	1:551:A:ARG:H	6	0.24	0.06	0.23

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1143)	1:550:A:LEU:HD13	1:551:A:ARG:H	6	0.24	0.06	0.23
(1,1143)	1:550:A:LEU:HD21	1:551:A:ARG:H	6	0.24	0.06	0.23
(1,1143)	1:550:A:LEU:HD22	1:551:A:ARG:H	6	0.24	0.06	0.23
(1,1143)	1:550:A:LEU:HD23	1:551:A:ARG:H	6	0.24	0.06	0.23
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD11	5	0.57	0.35	0.36
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD12	5	0.57	0.35	0.36
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD13	5	0.57	0.35	0.36
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD21	5	0.57	0.35	0.36
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD22	5	0.57	0.35	0.36
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD23	5	0.57	0.35	0.36
(1,1146)	1:550:A:LEU:HD11	1:551:A:ARG:HD2	5	0.37	0.15	0.45
(1,1146)	1:550:A:LEU:HD11	1:551:A:ARG:HD3	5	0.37	0.15	0.45
(1,1146)	1:550:A:LEU:HD12	1:551:A:ARG:HD2	5	0.37	0.15	0.45
(1,1146)	1:550:A:LEU:HD12	1:551:A:ARG:HD3	5	0.37	0.15	0.45
(1,1146)	1:550:A:LEU:HD13	1:551:A:ARG:HD2	5	0.37	0.15	0.45
(1,1146)	1:550:A:LEU:HD13	1:551:A:ARG:HD3	5	0.37	0.15	0.45
(1,1146)	1:550:A:LEU:HD21	1:551:A:ARG:HD2	5	0.37	0.15	0.45
(1,1146)	1:550:A:LEU:HD21	1:551:A:ARG:HD3	5	0.37	0.15	0.45
(1,1146)	1:550:A:LEU:HD22	1:551:A:ARG:HD2	5	0.37	0.15	0.45
(1,1146)	1:550:A:LEU:HD22	1:551:A:ARG:HD3	5	0.37	0.15	0.45
(1,1146)	1:550:A:LEU:HD23	1:551:A:ARG:HD2	5	0.37	0.15	0.45
(1,1146)	1:550:A:LEU:HD23	1:551:A:ARG:HD3	5	0.37	0.15	0.45
(1,987)	1:513:A:LEU:HD11	1:515:A:ALA:H	5	0.3	0.1	0.27
(1,987)	1:513:A:LEU:HD12	1:515:A:ALA:H	5	0.3	0.1	0.27
(1,987)	1:513:A:LEU:HD13	1:515:A:ALA:H	5	0.3	0.1	0.27
(1,987)	1:513:A:LEU:HD21	1:515:A:ALA:H	5	0.3	0.1	0.27
(1,987)	1:513:A:LEU:HD22	1:515:A:ALA:H	5	0.3	0.1	0.27
(1,987)	1:513:A:LEU:HD23	1:515:A:ALA:H	5	0.3	0.1	0.27
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD11	4	0.34	0.07	0.32
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD12	4	0.34	0.07	0.32
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD13	4	0.34	0.07	0.32
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD21	4	0.34	0.07	0.32
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD22	4	0.34	0.07	0.32
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD23	4	0.34	0.07	0.32
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD11	4	0.34	0.07	0.32
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD12	4	0.34	0.07	0.32
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD13	4	0.34	0.07	0.32
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD21	4	0.34	0.07	0.32
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD22	4	0.34	0.07	0.32
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD23	4	0.34	0.07	0.32
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD11	4	0.32	0.08	0.33
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD12	4	0.32	0.08	0.33

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD13	4	0.32	0.08	0.33
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD21	4	0.32	0.08	0.33
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD22	4	0.32	0.08	0.33
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD23	4	0.32	0.08	0.33
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD11	4	0.32	0.08	0.33
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD12	4	0.32	0.08	0.33
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD13	4	0.32	0.08	0.33
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD21	4	0.32	0.08	0.33
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD22	4	0.32	0.08	0.33
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD23	4	0.32	0.08	0.33
(1,1042)	1:527:A:LEU:HD11	1:531:A:ALA:H	4	0.14	0.02	0.14
(1,1042)	1:527:A:LEU:HD12	1:531:A:ALA:H	4	0.14	0.02	0.14
(1,1042)	1:527:A:LEU:HD13	1:531:A:ALA:H	4	0.14	0.02	0.14
(1,1042)	1:527:A:LEU:HD21	1:531:A:ALA:H	4	0.14	0.02	0.14
(1,1042)	1:527:A:LEU:HD22	1:531:A:ALA:H	4	0.14	0.02	0.14
(1,1042)	1:527:A:LEU:HD23	1:531:A:ALA:H	4	0.14	0.02	0.14
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD11	3	0.67	0.15	0.75
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD12	3	0.67	0.15	0.75
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD13	3	0.67	0.15	0.75
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD21	3	0.67	0.15	0.75
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD22	3	0.67	0.15	0.75
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD23	3	0.67	0.15	0.75
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD11	3	0.67	0.15	0.75
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD12	3	0.67	0.15	0.75
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD13	3	0.67	0.15	0.75
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD21	3	0.67	0.15	0.75
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD22	3	0.67	0.15	0.75
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD23	3	0.67	0.15	0.75
(1,1151)	1:550:A:LEU:HD11	1:556:A:ASP:HB2	3	0.48	0.12	0.54
(1,1151)	1:550:A:LEU:HD11	1:556:A:ASP:HB3	3	0.48	0.12	0.54
(1,1151)	1:550:A:LEU:HD12	1:556:A:ASP:HB2	3	0.48	0.12	0.54
(1,1151)	1:550:A:LEU:HD12	1:556:A:ASP:HB3	3	0.48	0.12	0.54
(1,1151)	1:550:A:LEU:HD13	1:556:A:ASP:HB2	3	0.48	0.12	0.54
(1,1151)	1:550:A:LEU:HD13	1:556:A:ASP:HB3	3	0.48	0.12	0.54
(1,1151)	1:550:A:LEU:HD21	1:556:A:ASP:HB2	3	0.48	0.12	0.54
(1,1151)	1:550:A:LEU:HD21	1:556:A:ASP:HB3	3	0.48	0.12	0.54
(1,1151)	1:550:A:LEU:HD22	1:556:A:ASP:HB2	3	0.48	0.12	0.54
(1,1151)	1:550:A:LEU:HD22	1:556:A:ASP:HB3	3	0.48	0.12	0.54
(1,1151)	1:550:A:LEU:HD23	1:556:A:ASP:HB2	3	0.48	0.12	0.54
(1,1151)	1:550:A:LEU:HD23	1:556:A:ASP:HB3	3	0.48	0.12	0.54
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG11	3	0.32	0.15	0.31
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG12	3	0.32	0.15	0.31

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG13	3	0.32	0.15	0.31
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG21	3	0.32	0.15	0.31
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG22	3	0.32	0.15	0.31
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG23	3	0.32	0.15	0.31
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG11	3	0.32	0.15	0.31
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG12	3	0.32	0.15	0.31
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG13	3	0.32	0.15	0.31
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG21	3	0.32	0.15	0.31
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG22	3	0.32	0.15	0.31
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG23	3	0.32	0.15	0.31
(1,988)	1:513:A:LEU:HD11	1:516:A:ALA:H	3	0.29	0.11	0.27
(1,988)	1:513:A:LEU:HD12	1:516:A:ALA:H	3	0.29	0.11	0.27
(1,988)	1:513:A:LEU:HD13	1:516:A:ALA:H	3	0.29	0.11	0.27
(1,988)	1:513:A:LEU:HD21	1:516:A:ALA:H	3	0.29	0.11	0.27
(1,988)	1:513:A:LEU:HD22	1:516:A:ALA:H	3	0.29	0.11	0.27
(1,988)	1:513:A:LEU:HD23	1:516:A:ALA:H	3	0.29	0.11	0.27
(1,964)	1:477:A:LEU:HD11	1:478:A:PRO:HD2	3	0.25	0.11	0.23
(1,964)	1:477:A:LEU:HD11	1:478:A:PRO:HD3	3	0.25	0.11	0.23
(1,964)	1:477:A:LEU:HD12	1:478:A:PRO:HD2	3	0.25	0.11	0.23
(1,964)	1:477:A:LEU:HD12	1:478:A:PRO:HD3	3	0.25	0.11	0.23
(1,964)	1:477:A:LEU:HD13	1:478:A:PRO:HD2	3	0.25	0.11	0.23
(1,964)	1:477:A:LEU:HD13	1:478:A:PRO:HD3	3	0.25	0.11	0.23
(1,964)	1:477:A:LEU:HD21	1:478:A:PRO:HD2	3	0.25	0.11	0.23
(1,964)	1:477:A:LEU:HD21	1:478:A:PRO:HD3	3	0.25	0.11	0.23
(1,964)	1:477:A:LEU:HD22	1:478:A:PRO:HD2	3	0.25	0.11	0.23
(1,964)	1:477:A:LEU:HD22	1:478:A:PRO:HD3	3	0.25	0.11	0.23
(1,964)	1:477:A:LEU:HD23	1:478:A:PRO:HD2	3	0.25	0.11	0.23
(1,964)	1:477:A:LEU:HD23	1:478:A:PRO:HD3	3	0.25	0.11	0.23
(1,613)	1:562:A:THR:HG21	1:566:A:LEU:HG	3	0.22	0.01	0.22
(1,613)	1:562:A:THR:HG22	1:566:A:LEU:HG	3	0.22	0.01	0.22
(1,613)	1:562:A:THR:HG23	1:566:A:LEU:HG	3	0.22	0.01	0.22
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD11	3	0.18	0.01	0.19
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD12	3	0.18	0.01	0.19
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD13	3	0.18	0.01	0.19
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD21	3	0.18	0.01	0.19
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD22	3	0.18	0.01	0.19
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD23	3	0.18	0.01	0.19
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG11	3	0.18	0.04	0.2
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG12	3	0.18	0.04	0.2
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG13	3	0.18	0.04	0.2
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG21	3	0.18	0.04	0.2
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG22	3	0.18	0.04	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG23	3	0.18	0.04	0.2
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG11	3	0.18	0.04	0.2
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG12	3	0.18	0.04	0.2
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG13	3	0.18	0.04	0.2
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG21	3	0.18	0.04	0.2
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG22	3	0.18	0.04	0.2
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG23	3	0.18	0.04	0.2
(1,1012)	1:521:A:VAL:HG11	1:525:A:ASP:H	2	0.7	0.1	0.7
(1,1012)	1:521:A:VAL:HG12	1:525:A:ASP:H	2	0.7	0.1	0.7
(1,1012)	1:521:A:VAL:HG13	1:525:A:ASP:H	2	0.7	0.1	0.7
(1,1012)	1:521:A:VAL:HG21	1:525:A:ASP:H	2	0.7	0.1	0.7
(1,1012)	1:521:A:VAL:HG22	1:525:A:ASP:H	2	0.7	0.1	0.7
(1,1012)	1:521:A:VAL:HG23	1:525:A:ASP:H	2	0.7	0.1	0.7
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD11	2	0.6	0.04	0.6
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD12	2	0.6	0.04	0.6
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD13	2	0.6	0.04	0.6
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD21	2	0.6	0.04	0.6
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD22	2	0.6	0.04	0.6
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD23	2	0.6	0.04	0.6
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD11	2	0.6	0.04	0.6
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD12	2	0.6	0.04	0.6
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD13	2	0.6	0.04	0.6
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD21	2	0.6	0.04	0.6
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD22	2	0.6	0.04	0.6
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD23	2	0.6	0.04	0.6
(1,1013)	1:521:A:VAL:HG11	1:525:A:ASP:HB3	2	0.36	0.01	0.36
(1,1013)	1:521:A:VAL:HG12	1:525:A:ASP:HB3	2	0.36	0.01	0.36
(1,1013)	1:521:A:VAL:HG13	1:525:A:ASP:HB3	2	0.36	0.01	0.36
(1,1013)	1:521:A:VAL:HG21	1:525:A:ASP:HB3	2	0.36	0.01	0.36
(1,1013)	1:521:A:VAL:HG22	1:525:A:ASP:HB3	2	0.36	0.01	0.36
(1,1013)	1:521:A:VAL:HG23	1:525:A:ASP:HB3	2	0.36	0.01	0.36
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD11	2	0.24	0.12	0.24
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD12	2	0.24	0.12	0.24
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD13	2	0.24	0.12	0.24
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD21	2	0.24	0.12	0.24
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD22	2	0.24	0.12	0.24
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD23	2	0.24	0.12	0.24
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD11	2	0.24	0.12	0.24
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD12	2	0.24	0.12	0.24
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD13	2	0.24	0.12	0.24
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD21	2	0.24	0.12	0.24
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD22	2	0.24	0.12	0.24

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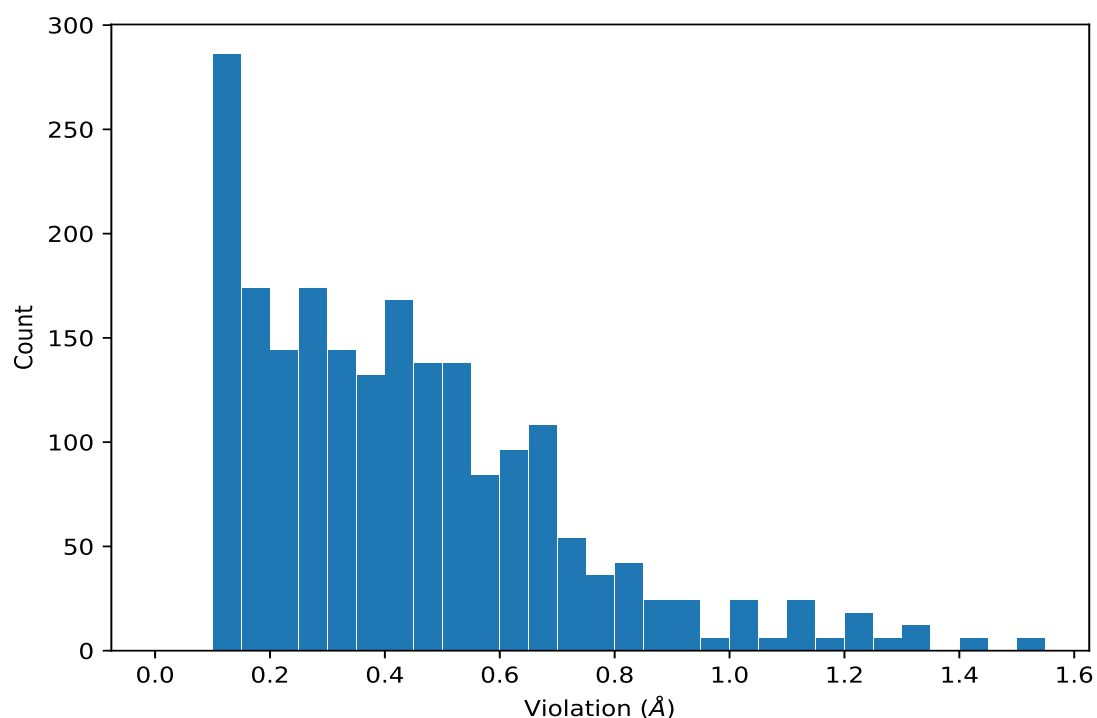
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD23	2	0.24	0.12	0.24
(1,1202)	1:566:A:LEU:HD11	1:569:A:GLN:HB2	2	0.22	0.07	0.22
(1,1202)	1:566:A:LEU:HD11	1:569:A:GLN:HB3	2	0.22	0.07	0.22
(1,1202)	1:566:A:LEU:HD12	1:569:A:GLN:HB2	2	0.22	0.07	0.22
(1,1202)	1:566:A:LEU:HD12	1:569:A:GLN:HB3	2	0.22	0.07	0.22
(1,1202)	1:566:A:LEU:HD13	1:569:A:GLN:HB2	2	0.22	0.07	0.22
(1,1202)	1:566:A:LEU:HD13	1:569:A:GLN:HB3	2	0.22	0.07	0.22
(1,1202)	1:566:A:LEU:HD21	1:569:A:GLN:HB2	2	0.22	0.07	0.22
(1,1202)	1:566:A:LEU:HD21	1:569:A:GLN:HB3	2	0.22	0.07	0.22
(1,1202)	1:566:A:LEU:HD22	1:569:A:GLN:HB2	2	0.22	0.07	0.22
(1,1202)	1:566:A:LEU:HD22	1:569:A:GLN:HB3	2	0.22	0.07	0.22
(1,1202)	1:566:A:LEU:HD23	1:569:A:GLN:HB2	2	0.22	0.07	0.22
(1,1202)	1:566:A:LEU:HD23	1:569:A:GLN:HB3	2	0.22	0.07	0.22
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG11	2	0.17	0.03	0.17
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG12	2	0.17	0.03	0.17
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG13	2	0.17	0.03	0.17
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG21	2	0.17	0.03	0.17
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG22	2	0.17	0.03	0.17
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG23	2	0.17	0.03	0.17
(1,30)	1:507:A:TRP:HH2	1:512:A:THR:HB	2	0.14	0.02	0.14
(1,487)	1:488:A:ARG:H	1:489:A:GLY:HA2	2	0.12	0.02	0.12
(1,487)	1:488:A:ARG:H	1:489:A:GLY:HA3	2	0.12	0.02	0.12
(1,608)	1:522:A:ALA:H	1:525:A:ASP:HA	2	0.1	0.0	0.1

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)
(1,1144)	1:550:A:LEU:HD11	1:551:A:ARG:HA	2	1.53
(1,1144)	1:550:A:LEU:HD12	1:551:A:ARG:HA	2	1.53
(1,1144)	1:550:A:LEU:HD13	1:551:A:ARG:HA	2	1.53
(1,1144)	1:550:A:LEU:HD21	1:551:A:ARG:HA	2	1.53
(1,1144)	1:550:A:LEU:HD22	1:551:A:ARG:HA	2	1.53
(1,1144)	1:550:A:LEU:HD23	1:551:A:ARG:HA	2	1.53
(1,1144)	1:550:A:LEU:HD11	1:551:A:ARG:HA	11	1.44
(1,1144)	1:550:A:LEU:HD12	1:551:A:ARG:HA	11	1.44
(1,1144)	1:550:A:LEU:HD13	1:551:A:ARG:HA	11	1.44
(1,1144)	1:550:A:LEU:HD21	1:551:A:ARG:HA	11	1.44
(1,1144)	1:550:A:LEU:HD22	1:551:A:ARG:HA	11	1.44
(1,1144)	1:550:A:LEU:HD23	1:551:A:ARG:HA	11	1.44
(1,1144)	1:550:A:LEU:HD11	1:551:A:ARG:HA	4	1.31
(1,1144)	1:550:A:LEU:HD12	1:551:A:ARG:HA	4	1.31
(1,1144)	1:550:A:LEU:HD13	1:551:A:ARG:HA	4	1.31
(1,1144)	1:550:A:LEU:HD21	1:551:A:ARG:HA	4	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1144)	1:550:A:LEU:HD22	1:551:A:ARG:HA	4	1.31
(1,1144)	1:550:A:LEU:HD23	1:551:A:ARG:HA	4	1.31
(1,1144)	1:550:A:LEU:HD11	1:551:A:ARG:HA	10	1.31
(1,1144)	1:550:A:LEU:HD12	1:551:A:ARG:HA	10	1.31
(1,1144)	1:550:A:LEU:HD13	1:551:A:ARG:HA	10	1.31
(1,1144)	1:550:A:LEU:HD21	1:551:A:ARG:HA	10	1.31
(1,1144)	1:550:A:LEU:HD22	1:551:A:ARG:HA	10	1.31
(1,1144)	1:550:A:LEU:HD23	1:551:A:ARG:HA	10	1.31
(1,1144)	1:550:A:LEU:HD11	1:551:A:ARG:HA	3	1.26
(1,1144)	1:550:A:LEU:HD12	1:551:A:ARG:HA	3	1.26
(1,1144)	1:550:A:LEU:HD13	1:551:A:ARG:HA	3	1.26
(1,1144)	1:550:A:LEU:HD21	1:551:A:ARG:HA	3	1.26
(1,1144)	1:550:A:LEU:HD22	1:551:A:ARG:HA	3	1.26
(1,1144)	1:550:A:LEU:HD23	1:551:A:ARG:HA	3	1.26
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG2	12	1.23
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG3	12	1.23
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG2	12	1.23
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG3	12	1.23
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG2	12	1.23
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG3	12	1.23
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG2	12	1.23
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG3	12	1.23
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG2	12	1.23
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG3	12	1.23
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG2	12	1.23
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG3	12	1.23
(1,1144)	1:550:A:LEU:HD11	1:551:A:ARG:HA	7	1.22
(1,1144)	1:550:A:LEU:HD12	1:551:A:ARG:HA	7	1.22
(1,1144)	1:550:A:LEU:HD13	1:551:A:ARG:HA	7	1.22
(1,1144)	1:550:A:LEU:HD21	1:551:A:ARG:HA	7	1.22
(1,1144)	1:550:A:LEU:HD22	1:551:A:ARG:HA	7	1.22
(1,1144)	1:550:A:LEU:HD23	1:551:A:ARG:HA	7	1.22
(1,1144)	1:550:A:LEU:HD11	1:551:A:ARG:HA	6	1.19
(1,1144)	1:550:A:LEU:HD12	1:551:A:ARG:HA	6	1.19
(1,1144)	1:550:A:LEU:HD13	1:551:A:ARG:HA	6	1.19
(1,1144)	1:550:A:LEU:HD21	1:551:A:ARG:HA	6	1.19
(1,1144)	1:550:A:LEU:HD22	1:551:A:ARG:HA	6	1.19
(1,1144)	1:550:A:LEU:HD23	1:551:A:ARG:HA	6	1.19
(1,989)	1:513:A:LEU:HD11	1:517:A:ILE:H	15	1.13
(1,989)	1:513:A:LEU:HD12	1:517:A:ILE:H	15	1.13
(1,989)	1:513:A:LEU:HD13	1:517:A:ILE:H	15	1.13
(1,989)	1:513:A:LEU:HD21	1:517:A:ILE:H	15	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,989)	1:513:A:LEU:HD22	1:517:A:ILE:H	15	1.13
(1,989)	1:513:A:LEU:HD23	1:517:A:ILE:H	15	1.13
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG2	5	1.12
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG3	5	1.12
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG2	5	1.12
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG3	5	1.12
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG2	5	1.12
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG3	5	1.12
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG2	5	1.12
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG3	5	1.12
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG2	5	1.12
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG3	5	1.12
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG2	5	1.12
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG3	5	1.12
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD11	9	1.11
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD12	9	1.11
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD13	9	1.11
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD21	9	1.11
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD22	9	1.11
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD23	9	1.11
(1,1150)	1:550:A:LEU:HD11	1:556:A:ASP:HA	10	1.05
(1,1150)	1:550:A:LEU:HD12	1:556:A:ASP:HA	10	1.05
(1,1150)	1:550:A:LEU:HD13	1:556:A:ASP:HA	10	1.05
(1,1150)	1:550:A:LEU:HD21	1:556:A:ASP:HA	10	1.05
(1,1150)	1:550:A:LEU:HD22	1:556:A:ASP:HA	10	1.05
(1,1150)	1:550:A:LEU:HD23	1:556:A:ASP:HA	10	1.05
(1,1023)	1:524:A:ASN:HA	1:527:A:LEU:HD11	15	1.03
(1,1023)	1:524:A:ASN:HA	1:527:A:LEU:HD12	15	1.03
(1,1023)	1:524:A:ASN:HA	1:527:A:LEU:HD13	15	1.03
(1,1023)	1:524:A:ASN:HA	1:527:A:LEU:HD21	15	1.03
(1,1023)	1:524:A:ASN:HA	1:527:A:LEU:HD22	15	1.03
(1,1023)	1:524:A:ASN:HA	1:527:A:LEU:HD23	15	1.03
(1,1144)	1:550:A:LEU:HD11	1:551:A:ARG:HA	12	1.0
(1,1144)	1:550:A:LEU:HD12	1:551:A:ARG:HA	12	1.0
(1,1144)	1:550:A:LEU:HD13	1:551:A:ARG:HA	12	1.0
(1,1144)	1:550:A:LEU:HD21	1:551:A:ARG:HA	12	1.0
(1,1144)	1:550:A:LEU:HD22	1:551:A:ARG:HA	12	1.0
(1,1144)	1:550:A:LEU:HD23	1:551:A:ARG:HA	12	1.0
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG2	6	1.0
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG3	6	1.0
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG2	6	1.0
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG3	6	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG2	6	1.0
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG3	6	1.0
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG2	6	1.0
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG3	6	1.0
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG2	6	1.0
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG3	6	1.0
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG2	6	1.0
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG3	6	1.0
(1,1144)	1:550:A:LEU:HD11	1:551:A:ARG:HA	1	0.97
(1,1144)	1:550:A:LEU:HD12	1:551:A:ARG:HA	1	0.97
(1,1144)	1:550:A:LEU:HD13	1:551:A:ARG:HA	1	0.97
(1,1144)	1:550:A:LEU:HD21	1:551:A:ARG:HA	1	0.97
(1,1144)	1:550:A:LEU:HD22	1:551:A:ARG:HA	1	0.97
(1,1144)	1:550:A:LEU:HD23	1:551:A:ARG:HA	1	0.97
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG11	5	0.95
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG12	5	0.95
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG13	5	0.95
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG21	5	0.95
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG22	5	0.95
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG23	5	0.95
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG11	2	0.91
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG12	2	0.91
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG13	2	0.91
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG21	2	0.91
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG22	2	0.91
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG23	2	0.91
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB2	7	0.9
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB3	7	0.9
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB2	7	0.9
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB3	7	0.9
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB2	7	0.9
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB3	7	0.9
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB2	7	0.9
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB3	7	0.9
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB2	7	0.9
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB3	7	0.9
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB2	7	0.9
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB3	7	0.9
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG11	11	0.89
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG12	11	0.89
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG13	11	0.89
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG21	11	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG22	11	0.89
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG23	11	0.89
(1,1150)	1:550:A:LEU:HD11	1:556:A:ASP:HA	4	0.89
(1,1150)	1:550:A:LEU:HD12	1:556:A:ASP:HA	4	0.89
(1,1150)	1:550:A:LEU:HD13	1:556:A:ASP:HA	4	0.89
(1,1150)	1:550:A:LEU:HD21	1:556:A:ASP:HA	4	0.89
(1,1150)	1:550:A:LEU:HD22	1:556:A:ASP:HA	4	0.89
(1,1150)	1:550:A:LEU:HD23	1:556:A:ASP:HA	4	0.89
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB2	1	0.89
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB3	1	0.89
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB2	1	0.89
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB3	1	0.89
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB2	1	0.89
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB3	1	0.89
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB2	1	0.89
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB3	1	0.89
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB2	1	0.89
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB3	1	0.89
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB2	1	0.89
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB3	1	0.89
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG11	15	0.85
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG12	15	0.85
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG13	15	0.85
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG21	15	0.85
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG22	15	0.85
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG23	15	0.85
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD11	14	0.84
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD12	14	0.84
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD13	14	0.84
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD21	14	0.84
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD22	14	0.84
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD23	14	0.84
(1,989)	1:513:A:LEU:HD11	1:517:A:ILE:H	11	0.83
(1,989)	1:513:A:LEU:HD12	1:517:A:ILE:H	11	0.83
(1,989)	1:513:A:LEU:HD13	1:517:A:ILE:H	11	0.83
(1,989)	1:513:A:LEU:HD21	1:517:A:ILE:H	11	0.83
(1,989)	1:513:A:LEU:HD22	1:517:A:ILE:H	11	0.83
(1,989)	1:513:A:LEU:HD23	1:517:A:ILE:H	11	0.83
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD11	8	0.8
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD12	8	0.8
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD13	8	0.8
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD21	8	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD22	8	0.8
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD23	8	0.8
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD11	8	0.8
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD12	8	0.8
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD13	8	0.8
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD21	8	0.8
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD22	8	0.8
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD23	8	0.8
(1,1150)	1:550:A:LEU:HD11	1:556:A:ASP:HA	3	0.8
(1,1150)	1:550:A:LEU:HD12	1:556:A:ASP:HA	3	0.8
(1,1150)	1:550:A:LEU:HD13	1:556:A:ASP:HA	3	0.8
(1,1150)	1:550:A:LEU:HD21	1:556:A:ASP:HA	3	0.8
(1,1150)	1:550:A:LEU:HD22	1:556:A:ASP:HA	3	0.8
(1,1150)	1:550:A:LEU:HD23	1:556:A:ASP:HA	3	0.8
(1,1012)	1:521:A:VAL:HG11	1:525:A:ASP:H	5	0.8
(1,1012)	1:521:A:VAL:HG12	1:525:A:ASP:H	5	0.8
(1,1012)	1:521:A:VAL:HG13	1:525:A:ASP:H	5	0.8
(1,1012)	1:521:A:VAL:HG21	1:525:A:ASP:H	5	0.8
(1,1012)	1:521:A:VAL:HG22	1:525:A:ASP:H	5	0.8
(1,1012)	1:521:A:VAL:HG23	1:525:A:ASP:H	5	0.8
(1,1163)	1:553:A:ILE:HB	1:554:A:VAL:HG11	10	0.78
(1,1163)	1:553:A:ILE:HB	1:554:A:VAL:HG12	10	0.78
(1,1163)	1:553:A:ILE:HB	1:554:A:VAL:HG13	10	0.78
(1,1163)	1:553:A:ILE:HB	1:554:A:VAL:HG21	10	0.78
(1,1163)	1:553:A:ILE:HB	1:554:A:VAL:HG22	10	0.78
(1,1163)	1:553:A:ILE:HB	1:554:A:VAL:HG23	10	0.78
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG11	13	0.78
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG12	13	0.78
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG13	13	0.78
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG21	13	0.78
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG22	13	0.78
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG23	13	0.78
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD21	4	0.78
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD22	4	0.78
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD21	4	0.78
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD22	4	0.78
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD21	4	0.78
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD22	4	0.78
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD21	4	0.78
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD22	4	0.78
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD21	4	0.78
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD22	4	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD21	4	0.78
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD22	4	0.78
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD11	15	0.75
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD12	15	0.75
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD13	15	0.75
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD21	15	0.75
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD22	15	0.75
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD23	15	0.75
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD11	15	0.75
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD12	15	0.75
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD13	15	0.75
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD21	15	0.75
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD22	15	0.75
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD23	15	0.75
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE1	7	0.73
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE2	7	0.73
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE3	7	0.73
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE1	7	0.73
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE2	7	0.73
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE3	7	0.73
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE1	7	0.73
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE2	7	0.73
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE3	7	0.73
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE1	7	0.73
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE2	7	0.73
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE3	7	0.73
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE1	7	0.73
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE2	7	0.73
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE3	7	0.73
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE1	7	0.73
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE2	7	0.73
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE3	7	0.73
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE1	9	0.71
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE2	9	0.71
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE3	9	0.71
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE1	9	0.71
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE2	9	0.71
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE3	9	0.71
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE1	9	0.71
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE2	9	0.71
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE3	9	0.71
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE1	9	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE2	9	0.71
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE3	9	0.71
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE1	9	0.71
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE2	9	0.71
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE3	9	0.71
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE1	9	0.71
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE2	9	0.71
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE3	9	0.71
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE1	12	0.71
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE2	12	0.71
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE3	12	0.71
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE1	12	0.71
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE2	12	0.71
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE3	12	0.71
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE1	12	0.71
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE2	12	0.71
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE3	12	0.71
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE1	12	0.71
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE2	12	0.71
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE3	12	0.71
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE1	12	0.71
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE2	12	0.71
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE3	12	0.71
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE1	12	0.71
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE2	12	0.71
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE3	12	0.71
(1,1150)	1:550:A:LEU:HD11	1:556:A:ASP:HA	1	0.69
(1,1150)	1:550:A:LEU:HD12	1:556:A:ASP:HA	1	0.69
(1,1150)	1:550:A:LEU:HD13	1:556:A:ASP:HA	1	0.69
(1,1150)	1:550:A:LEU:HD21	1:556:A:ASP:HA	1	0.69
(1,1150)	1:550:A:LEU:HD22	1:556:A:ASP:HA	1	0.69
(1,1150)	1:550:A:LEU:HD23	1:556:A:ASP:HA	1	0.69
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD11	3	0.69
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD12	3	0.69
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD13	3	0.69
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD21	3	0.69
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD22	3	0.69
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD23	3	0.69
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD11	3	0.69
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD12	3	0.69
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD13	3	0.69
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD21	3	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD22	3	0.69
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD23	3	0.69
(1,984)	1:513:A:LEU:HD11	1:514:A:PHE:HA	11	0.69
(1,984)	1:513:A:LEU:HD12	1:514:A:PHE:HA	11	0.69
(1,984)	1:513:A:LEU:HD13	1:514:A:PHE:HA	11	0.69
(1,984)	1:513:A:LEU:HD21	1:514:A:PHE:HA	11	0.69
(1,984)	1:513:A:LEU:HD22	1:514:A:PHE:HA	11	0.69
(1,984)	1:513:A:LEU:HD23	1:514:A:PHE:HA	11	0.69
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD11	12	0.68
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD12	12	0.68
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD13	12	0.68
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD21	12	0.68
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD22	12	0.68
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD23	12	0.68
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD11	12	0.68
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD12	12	0.68
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD13	12	0.68
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD21	12	0.68
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD22	12	0.68
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD23	12	0.68
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG11	6	0.67
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG12	6	0.67
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG13	6	0.67
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG21	6	0.67
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG22	6	0.67
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG23	6	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD11	1	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD12	1	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD13	1	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD21	1	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD22	1	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD23	1	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD11	1	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD12	1	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD13	1	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD21	1	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD22	1	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD23	1	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD11	4	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD12	4	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD13	4	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD21	4	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD22	4	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD23	4	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD11	4	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD12	4	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD13	4	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD21	4	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD22	4	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD23	4	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD11	6	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD12	6	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD13	6	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD21	6	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD22	6	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD23	6	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD11	6	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD12	6	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD13	6	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD21	6	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD22	6	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD23	6	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD11	8	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD12	8	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD13	8	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD21	8	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD22	8	0.67
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD23	8	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD11	8	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD12	8	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD13	8	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD21	8	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD22	8	0.67
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD23	8	0.67
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE1	10	0.67
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE2	10	0.67
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE3	10	0.67
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE1	10	0.67
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE2	10	0.67
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE3	10	0.67
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE1	10	0.67
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE2	10	0.67
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE3	10	0.67
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE1	10	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE2	10	0.67
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE3	10	0.67
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE1	10	0.67
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE2	10	0.67
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE3	10	0.67
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE1	10	0.67
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE2	10	0.67
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE3	10	0.67
(1,1150)	1:550:A:LEU:HD11	1:556:A:ASP:HA	2	0.64
(1,1150)	1:550:A:LEU:HD12	1:556:A:ASP:HA	2	0.64
(1,1150)	1:550:A:LEU:HD13	1:556:A:ASP:HA	2	0.64
(1,1150)	1:550:A:LEU:HD21	1:556:A:ASP:HA	2	0.64
(1,1150)	1:550:A:LEU:HD22	1:556:A:ASP:HA	2	0.64
(1,1150)	1:550:A:LEU:HD23	1:556:A:ASP:HA	2	0.64
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD11	5	0.64
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD12	5	0.64
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD13	5	0.64
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD21	5	0.64
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD22	5	0.64
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD23	5	0.64
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD11	5	0.64
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD12	5	0.64
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD13	5	0.64
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD21	5	0.64
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD22	5	0.64
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD23	5	0.64
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD11	9	0.64
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD12	9	0.64
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD13	9	0.64
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD21	9	0.64
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD22	9	0.64
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD23	9	0.64
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD11	9	0.64
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD12	9	0.64
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD13	9	0.64
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD21	9	0.64
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD22	9	0.64
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD23	9	0.64
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG11	14	0.63
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG12	14	0.63
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG13	14	0.63
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG21	14	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG22	14	0.63
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG23	14	0.63
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD11	10	0.63
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD12	10	0.63
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD13	10	0.63
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD21	10	0.63
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD22	10	0.63
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD23	10	0.63
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD11	10	0.63
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD12	10	0.63
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD13	10	0.63
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD21	10	0.63
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD22	10	0.63
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD23	10	0.63
(1,1027)	1:524:A:ASN:HD21	1:527:A:LEU:HD11	15	0.63
(1,1027)	1:524:A:ASN:HD21	1:527:A:LEU:HD12	15	0.63
(1,1027)	1:524:A:ASN:HD21	1:527:A:LEU:HD13	15	0.63
(1,1027)	1:524:A:ASN:HD21	1:527:A:LEU:HD21	15	0.63
(1,1027)	1:524:A:ASN:HD21	1:527:A:LEU:HD22	15	0.63
(1,1027)	1:524:A:ASN:HD21	1:527:A:LEU:HD23	15	0.63
(1,1027)	1:524:A:ASN:HD22	1:527:A:LEU:HD11	15	0.63
(1,1027)	1:524:A:ASN:HD22	1:527:A:LEU:HD12	15	0.63
(1,1027)	1:524:A:ASN:HD22	1:527:A:LEU:HD13	15	0.63
(1,1027)	1:524:A:ASN:HD22	1:527:A:LEU:HD21	15	0.63
(1,1027)	1:524:A:ASN:HD22	1:527:A:LEU:HD22	15	0.63
(1,1027)	1:524:A:ASN:HD22	1:527:A:LEU:HD23	15	0.63
(1,1177)	1:558:A:LEU:HD11	1:561:A:SER:HB2	2	0.62
(1,1177)	1:558:A:LEU:HD11	1:561:A:SER:HB3	2	0.62
(1,1177)	1:558:A:LEU:HD12	1:561:A:SER:HB2	2	0.62
(1,1177)	1:558:A:LEU:HD12	1:561:A:SER:HB3	2	0.62
(1,1177)	1:558:A:LEU:HD13	1:561:A:SER:HB2	2	0.62
(1,1177)	1:558:A:LEU:HD13	1:561:A:SER:HB3	2	0.62
(1,1177)	1:558:A:LEU:HD21	1:561:A:SER:HB2	2	0.62
(1,1177)	1:558:A:LEU:HD21	1:561:A:SER:HB3	2	0.62
(1,1177)	1:558:A:LEU:HD22	1:561:A:SER:HB2	2	0.62
(1,1177)	1:558:A:LEU:HD22	1:561:A:SER:HB3	2	0.62
(1,1177)	1:558:A:LEU:HD23	1:561:A:SER:HB2	2	0.62
(1,1177)	1:558:A:LEU:HD23	1:561:A:SER:HB3	2	0.62
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD11	15	0.62
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD12	15	0.62
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD13	15	0.62
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD21	15	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD22	15	0.62
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD23	15	0.62
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD11	15	0.62
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD12	15	0.62
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD13	15	0.62
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD21	15	0.62
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD22	15	0.62
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD23	15	0.62
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG2	8	0.61
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG3	8	0.61
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG2	8	0.61
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG3	8	0.61
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG2	8	0.61
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG3	8	0.61
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG2	8	0.61
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG3	8	0.61
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG2	8	0.61
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG3	8	0.61
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG2	8	0.61
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG3	8	0.61
(1,1150)	1:550:A:LEU:HD11	1:556:A:ASP:HA	12	0.6
(1,1150)	1:550:A:LEU:HD12	1:556:A:ASP:HA	12	0.6
(1,1150)	1:550:A:LEU:HD13	1:556:A:ASP:HA	12	0.6
(1,1150)	1:550:A:LEU:HD21	1:556:A:ASP:HA	12	0.6
(1,1150)	1:550:A:LEU:HD22	1:556:A:ASP:HA	12	0.6
(1,1150)	1:550:A:LEU:HD23	1:556:A:ASP:HA	12	0.6
(1,1012)	1:521:A:VAL:HG11	1:525:A:ASP:H	1	0.6
(1,1012)	1:521:A:VAL:HG12	1:525:A:ASP:H	1	0.6
(1,1012)	1:521:A:VAL:HG13	1:525:A:ASP:H	1	0.6
(1,1012)	1:521:A:VAL:HG21	1:525:A:ASP:H	1	0.6
(1,1012)	1:521:A:VAL:HG22	1:525:A:ASP:H	1	0.6
(1,1012)	1:521:A:VAL:HG23	1:525:A:ASP:H	1	0.6
(1,1151)	1:550:A:LEU:HD11	1:556:A:ASP:HB2	4	0.59
(1,1151)	1:550:A:LEU:HD11	1:556:A:ASP:HB3	4	0.59
(1,1151)	1:550:A:LEU:HD12	1:556:A:ASP:HB2	4	0.59
(1,1151)	1:550:A:LEU:HD12	1:556:A:ASP:HB3	4	0.59
(1,1151)	1:550:A:LEU:HD13	1:556:A:ASP:HB2	4	0.59
(1,1151)	1:550:A:LEU:HD13	1:556:A:ASP:HB3	4	0.59
(1,1151)	1:550:A:LEU:HD21	1:556:A:ASP:HB2	4	0.59
(1,1151)	1:550:A:LEU:HD21	1:556:A:ASP:HB3	4	0.59
(1,1151)	1:550:A:LEU:HD22	1:556:A:ASP:HB2	4	0.59
(1,1151)	1:550:A:LEU:HD22	1:556:A:ASP:HB3	4	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1151)	1:550:A:LEU:HD23	1:556:A:ASP:HB2	4	0.59
(1,1151)	1:550:A:LEU:HD23	1:556:A:ASP:HB3	4	0.59
(1,1150)	1:550:A:LEU:HD11	1:556:A:ASP:HA	7	0.58
(1,1150)	1:550:A:LEU:HD12	1:556:A:ASP:HA	7	0.58
(1,1150)	1:550:A:LEU:HD13	1:556:A:ASP:HA	7	0.58
(1,1150)	1:550:A:LEU:HD21	1:556:A:ASP:HA	7	0.58
(1,1150)	1:550:A:LEU:HD22	1:556:A:ASP:HA	7	0.58
(1,1150)	1:550:A:LEU:HD23	1:556:A:ASP:HA	7	0.58
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE1	11	0.56
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE2	11	0.56
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE3	11	0.56
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE1	11	0.56
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE2	11	0.56
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE3	11	0.56
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE1	11	0.56
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE2	11	0.56
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE3	11	0.56
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE1	11	0.56
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE2	11	0.56
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE3	11	0.56
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE1	11	0.56
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE2	11	0.56
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE3	11	0.56
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE1	11	0.56
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE2	11	0.56
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE3	11	0.56
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD11	13	0.55
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD12	13	0.55
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD13	13	0.55
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD21	13	0.55
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD22	13	0.55
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD23	13	0.55
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD11	2	0.55
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD12	2	0.55
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD13	2	0.55
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD21	2	0.55
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD22	2	0.55
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD23	2	0.55
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD11	2	0.55
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD12	2	0.55
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD13	2	0.55
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD21	2	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD22	2	0.55
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD23	2	0.55
(1,989)	1:513:A:LEU:HD11	1:517:A:ILE:H	7	0.55
(1,989)	1:513:A:LEU:HD12	1:517:A:ILE:H	7	0.55
(1,989)	1:513:A:LEU:HD13	1:517:A:ILE:H	7	0.55
(1,989)	1:513:A:LEU:HD21	1:517:A:ILE:H	7	0.55
(1,989)	1:513:A:LEU:HD22	1:517:A:ILE:H	7	0.55
(1,989)	1:513:A:LEU:HD23	1:517:A:ILE:H	7	0.55
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD11	1	0.55
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD12	1	0.55
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD13	1	0.55
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD21	1	0.55
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD22	1	0.55
(1,375)	1:556:A:ASP:HB2	1:559:A:LEU:HD23	1	0.55
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD11	1	0.55
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD12	1	0.55
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD13	1	0.55
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD21	1	0.55
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD22	1	0.55
(1,375)	1:556:A:ASP:HB3	1:559:A:LEU:HD23	1	0.55
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG11	1	0.54
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG12	1	0.54
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG13	1	0.54
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG21	1	0.54
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG22	1	0.54
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG23	1	0.54
(1,1151)	1:550:A:LEU:HD11	1:556:A:ASP:HB2	1	0.54
(1,1151)	1:550:A:LEU:HD11	1:556:A:ASP:HB3	1	0.54
(1,1151)	1:550:A:LEU:HD12	1:556:A:ASP:HB2	1	0.54
(1,1151)	1:550:A:LEU:HD12	1:556:A:ASP:HB3	1	0.54
(1,1151)	1:550:A:LEU:HD13	1:556:A:ASP:HB2	1	0.54
(1,1151)	1:550:A:LEU:HD13	1:556:A:ASP:HB3	1	0.54
(1,1151)	1:550:A:LEU:HD21	1:556:A:ASP:HB2	1	0.54
(1,1151)	1:550:A:LEU:HD21	1:556:A:ASP:HB3	1	0.54
(1,1151)	1:550:A:LEU:HD22	1:556:A:ASP:HB2	1	0.54
(1,1151)	1:550:A:LEU:HD22	1:556:A:ASP:HB3	1	0.54
(1,1151)	1:550:A:LEU:HD23	1:556:A:ASP:HB2	1	0.54
(1,1151)	1:550:A:LEU:HD23	1:556:A:ASP:HB3	1	0.54
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG11	13	0.54
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG12	13	0.54
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG13	13	0.54
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG21	13	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG22	13	0.54
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG23	13	0.54
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG11	13	0.54
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG12	13	0.54
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG13	13	0.54
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG21	13	0.54
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG22	13	0.54
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG23	13	0.54
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD11	13	0.54
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD12	13	0.54
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD13	13	0.54
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD21	13	0.54
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD22	13	0.54
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD23	13	0.54
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD11	13	0.54
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD12	13	0.54
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD13	13	0.54
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD21	13	0.54
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD22	13	0.54
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD23	13	0.54
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG11	7	0.53
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG12	7	0.53
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG13	7	0.53
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG21	7	0.53
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG22	7	0.53
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG23	7	0.53
(1,1146)	1:550:A:LEU:HD11	1:551:A:ARG:HD2	10	0.53
(1,1146)	1:550:A:LEU:HD11	1:551:A:ARG:HD3	10	0.53
(1,1146)	1:550:A:LEU:HD12	1:551:A:ARG:HD2	10	0.53
(1,1146)	1:550:A:LEU:HD12	1:551:A:ARG:HD3	10	0.53
(1,1146)	1:550:A:LEU:HD13	1:551:A:ARG:HD2	10	0.53
(1,1146)	1:550:A:LEU:HD13	1:551:A:ARG:HD3	10	0.53
(1,1146)	1:550:A:LEU:HD21	1:551:A:ARG:HD2	10	0.53
(1,1146)	1:550:A:LEU:HD21	1:551:A:ARG:HD3	10	0.53
(1,1146)	1:550:A:LEU:HD22	1:551:A:ARG:HD2	10	0.53
(1,1146)	1:550:A:LEU:HD22	1:551:A:ARG:HD3	10	0.53
(1,1146)	1:550:A:LEU:HD23	1:551:A:ARG:HD2	10	0.53
(1,1146)	1:550:A:LEU:HD23	1:551:A:ARG:HD3	10	0.53
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG11	4	0.52
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG12	4	0.52
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG13	4	0.52
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG21	4	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG22	4	0.52
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG23	4	0.52
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG2	15	0.52
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG3	15	0.52
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG2	15	0.52
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG3	15	0.52
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG2	15	0.52
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG3	15	0.52
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG2	15	0.52
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG3	15	0.52
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG2	15	0.52
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG3	15	0.52
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG2	15	0.52
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG3	15	0.52
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG11	9	0.51
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG12	9	0.51
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG13	9	0.51
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG21	9	0.51
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG22	9	0.51
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG23	9	0.51
(1,989)	1:513:A:LEU:HD11	1:517:A:ILE:H	4	0.51
(1,989)	1:513:A:LEU:HD12	1:517:A:ILE:H	4	0.51
(1,989)	1:513:A:LEU:HD13	1:517:A:ILE:H	4	0.51
(1,989)	1:513:A:LEU:HD21	1:517:A:ILE:H	4	0.51
(1,989)	1:513:A:LEU:HD22	1:517:A:ILE:H	4	0.51
(1,989)	1:513:A:LEU:HD23	1:517:A:ILE:H	4	0.51
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB2	10	0.51
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB3	10	0.51
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB2	10	0.51
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB3	10	0.51
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB2	10	0.51
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB3	10	0.51
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB2	10	0.51
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB3	10	0.51
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB2	10	0.51
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB3	10	0.51
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB2	10	0.51
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB3	10	0.51
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG11	8	0.5
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG12	8	0.5
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG13	8	0.5
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG21	8	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG22	8	0.5
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG23	8	0.5
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG11	8	0.5
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG12	8	0.5
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG13	8	0.5
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG21	8	0.5
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG22	8	0.5
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG23	8	0.5
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG11	3	0.5
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG12	3	0.5
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG13	3	0.5
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG21	3	0.5
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG22	3	0.5
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG23	3	0.5
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG11	3	0.5
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG12	3	0.5
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG13	3	0.5
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG21	3	0.5
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG22	3	0.5
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG23	3	0.5
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG2	3	0.5
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG3	3	0.5
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG2	3	0.5
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG3	3	0.5
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG2	3	0.5
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG3	3	0.5
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG2	3	0.5
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG3	3	0.5
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG2	3	0.5
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG3	3	0.5
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG2	3	0.5
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG3	3	0.5
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD11	14	0.49
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD12	14	0.49
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD13	14	0.49
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD21	14	0.49
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD22	14	0.49
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD23	14	0.49
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD11	14	0.49
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD12	14	0.49
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD13	14	0.49
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD21	14	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD22	14	0.49
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD23	14	0.49
(1,1146)	1:550:A:LEU:HD11	1:551:A:ARG:HD2	3	0.48
(1,1146)	1:550:A:LEU:HD11	1:551:A:ARG:HD3	3	0.48
(1,1146)	1:550:A:LEU:HD12	1:551:A:ARG:HD2	3	0.48
(1,1146)	1:550:A:LEU:HD12	1:551:A:ARG:HD3	3	0.48
(1,1146)	1:550:A:LEU:HD13	1:551:A:ARG:HD2	3	0.48
(1,1146)	1:550:A:LEU:HD13	1:551:A:ARG:HD3	3	0.48
(1,1146)	1:550:A:LEU:HD21	1:551:A:ARG:HD2	3	0.48
(1,1146)	1:550:A:LEU:HD21	1:551:A:ARG:HD3	3	0.48
(1,1146)	1:550:A:LEU:HD22	1:551:A:ARG:HD2	3	0.48
(1,1146)	1:550:A:LEU:HD22	1:551:A:ARG:HD3	3	0.48
(1,1146)	1:550:A:LEU:HD23	1:551:A:ARG:HD2	3	0.48
(1,1146)	1:550:A:LEU:HD23	1:551:A:ARG:HD3	3	0.48
(1,984)	1:513:A:LEU:HD11	1:514:A:PHE:HA	6	0.48
(1,984)	1:513:A:LEU:HD12	1:514:A:PHE:HA	6	0.48
(1,984)	1:513:A:LEU:HD13	1:514:A:PHE:HA	6	0.48
(1,984)	1:513:A:LEU:HD21	1:514:A:PHE:HA	6	0.48
(1,984)	1:513:A:LEU:HD22	1:514:A:PHE:HA	6	0.48
(1,984)	1:513:A:LEU:HD23	1:514:A:PHE:HA	6	0.48
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD11	2	0.47
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD12	2	0.47
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD13	2	0.47
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD21	2	0.47
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD22	2	0.47
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD23	2	0.47
(1,1025)	1:524:A:ASN:HB2	1:527:A:LEU:HD11	15	0.47
(1,1025)	1:524:A:ASN:HB2	1:527:A:LEU:HD12	15	0.47
(1,1025)	1:524:A:ASN:HB2	1:527:A:LEU:HD13	15	0.47
(1,1025)	1:524:A:ASN:HB2	1:527:A:LEU:HD21	15	0.47
(1,1025)	1:524:A:ASN:HB2	1:527:A:LEU:HD22	15	0.47
(1,1025)	1:524:A:ASN:HB2	1:527:A:LEU:HD23	15	0.47
(1,1025)	1:524:A:ASN:HB3	1:527:A:LEU:HD11	15	0.47
(1,1025)	1:524:A:ASN:HB3	1:527:A:LEU:HD12	15	0.47
(1,1025)	1:524:A:ASN:HB3	1:527:A:LEU:HD13	15	0.47
(1,1025)	1:524:A:ASN:HB3	1:527:A:LEU:HD21	15	0.47
(1,1025)	1:524:A:ASN:HB3	1:527:A:LEU:HD22	15	0.47
(1,1025)	1:524:A:ASN:HB3	1:527:A:LEU:HD23	15	0.47
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG11	12	0.46
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG12	12	0.46
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG13	12	0.46
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG21	12	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG22	12	0.46
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG23	12	0.46
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG11	12	0.46
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG12	12	0.46
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG13	12	0.46
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG21	12	0.46
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG22	12	0.46
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG23	12	0.46
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE1	6	0.46
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE2	6	0.46
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE3	6	0.46
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE1	6	0.46
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE2	6	0.46
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE3	6	0.46
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE1	6	0.46
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE2	6	0.46
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE3	6	0.46
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE1	6	0.46
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE2	6	0.46
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE3	6	0.46
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE1	6	0.46
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE2	6	0.46
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE3	6	0.46
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE1	6	0.46
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE2	6	0.46
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE3	6	0.46
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD11	5	0.45
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD12	5	0.45
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD13	5	0.45
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD21	5	0.45
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD22	5	0.45
(1,1229)	1:587:A:GLY:HA2	1:589:A:LEU:HD23	5	0.45
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD11	5	0.45
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD12	5	0.45
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD13	5	0.45
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD21	5	0.45
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD22	5	0.45
(1,1229)	1:587:A:GLY:HA3	1:589:A:LEU:HD23	5	0.45
(1,1146)	1:550:A:LEU:HD11	1:551:A:ARG:HD2	11	0.45
(1,1146)	1:550:A:LEU:HD11	1:551:A:ARG:HD3	11	0.45
(1,1146)	1:550:A:LEU:HD12	1:551:A:ARG:HD2	11	0.45
(1,1146)	1:550:A:LEU:HD12	1:551:A:ARG:HD3	11	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1146)	1:550:A:LEU:HD13	1:551:A:ARG:HD2	11	0.45
(1,1146)	1:550:A:LEU:HD13	1:551:A:ARG:HD3	11	0.45
(1,1146)	1:550:A:LEU:HD21	1:551:A:ARG:HD2	11	0.45
(1,1146)	1:550:A:LEU:HD21	1:551:A:ARG:HD3	11	0.45
(1,1146)	1:550:A:LEU:HD22	1:551:A:ARG:HD2	11	0.45
(1,1146)	1:550:A:LEU:HD22	1:551:A:ARG:HD3	11	0.45
(1,1146)	1:550:A:LEU:HD23	1:551:A:ARG:HD2	11	0.45
(1,1146)	1:550:A:LEU:HD23	1:551:A:ARG:HD3	11	0.45
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD11	4	0.45
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD12	4	0.45
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD13	4	0.45
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD21	4	0.45
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD22	4	0.45
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD23	4	0.45
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD11	4	0.45
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD12	4	0.45
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD13	4	0.45
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD21	4	0.45
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD22	4	0.45
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD23	4	0.45
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB2	11	0.45
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB3	11	0.45
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB2	11	0.45
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB3	11	0.45
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB2	11	0.45
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB3	11	0.45
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB2	11	0.45
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB3	11	0.45
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB2	11	0.45
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB3	11	0.45
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB2	11	0.45
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB3	11	0.45
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG2	2	0.45
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG3	2	0.45
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG2	2	0.45
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG3	2	0.45
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG2	2	0.45
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG3	2	0.45
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG2	2	0.45
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG3	2	0.45
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG2	2	0.45
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG3	2	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG2	2	0.45
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG3	2	0.45
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD11	7	0.44
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD12	7	0.44
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD13	7	0.44
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD21	7	0.44
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD22	7	0.44
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD23	7	0.44
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD11	9	0.44
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD12	9	0.44
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD13	9	0.44
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD21	9	0.44
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD22	9	0.44
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD23	9	0.44
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD11	9	0.44
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD12	9	0.44
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD13	9	0.44
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD21	9	0.44
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD22	9	0.44
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD23	9	0.44
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB1	5	0.44
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB2	5	0.44
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB3	5	0.44
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB1	5	0.44
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB2	5	0.44
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB3	5	0.44
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB1	5	0.44
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB2	5	0.44
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB3	5	0.44
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB1	5	0.44
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB2	5	0.44
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB3	5	0.44
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB1	5	0.44
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB2	5	0.44
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB3	5	0.44
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB1	5	0.44
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB2	5	0.44
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB3	5	0.44
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB1	13	0.44
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB2	13	0.44
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB3	13	0.44
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB1	13	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB2	13	0.44
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB3	13	0.44
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB1	13	0.44
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB2	13	0.44
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB3	13	0.44
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB1	13	0.44
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB2	13	0.44
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB3	13	0.44
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB1	13	0.44
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB2	13	0.44
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB3	13	0.44
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB1	13	0.44
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB2	13	0.44
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB3	13	0.44
(1,988)	1:513:A:LEU:HD11	1:516:A:ALA:H	3	0.44
(1,988)	1:513:A:LEU:HD12	1:516:A:ALA:H	3	0.44
(1,988)	1:513:A:LEU:HD13	1:516:A:ALA:H	3	0.44
(1,988)	1:513:A:LEU:HD21	1:516:A:ALA:H	3	0.44
(1,988)	1:513:A:LEU:HD22	1:516:A:ALA:H	3	0.44
(1,988)	1:513:A:LEU:HD23	1:516:A:ALA:H	3	0.44
(1,984)	1:513:A:LEU:HD11	1:514:A:PHE:HA	14	0.44
(1,984)	1:513:A:LEU:HD12	1:514:A:PHE:HA	14	0.44
(1,984)	1:513:A:LEU:HD13	1:514:A:PHE:HA	14	0.44
(1,984)	1:513:A:LEU:HD21	1:514:A:PHE:HA	14	0.44
(1,984)	1:513:A:LEU:HD22	1:514:A:PHE:HA	14	0.44
(1,984)	1:513:A:LEU:HD23	1:514:A:PHE:HA	14	0.44
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD21	1	0.43
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD22	1	0.43
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD21	1	0.43
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD22	1	0.43
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD21	1	0.43
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD22	1	0.43
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD21	1	0.43
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD22	1	0.43
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD21	1	0.43
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD22	1	0.43
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD21	1	0.43
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD22	1	0.43
(1,987)	1:513:A:LEU:HD11	1:515:A:ALA:H	5	0.43
(1,987)	1:513:A:LEU:HD12	1:515:A:ALA:H	5	0.43
(1,987)	1:513:A:LEU:HD13	1:515:A:ALA:H	5	0.43
(1,987)	1:513:A:LEU:HD21	1:515:A:ALA:H	5	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,987)	1:513:A:LEU:HD22	1:515:A:ALA:H	5	0.43
(1,987)	1:513:A:LEU:HD23	1:515:A:ALA:H	5	0.43
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD11	10	0.42
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD12	10	0.42
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD13	10	0.42
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD21	10	0.42
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD22	10	0.42
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD23	10	0.42
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD11	4	0.42
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD12	4	0.42
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD13	4	0.42
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD21	4	0.42
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD22	4	0.42
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD23	4	0.42
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD11	4	0.42
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD12	4	0.42
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD13	4	0.42
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD21	4	0.42
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD22	4	0.42
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD23	4	0.42
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE1	13	0.42
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE2	13	0.42
(1,1016)	1:521:A:VAL:HG11	1:526:A:MET:HE3	13	0.42
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE1	13	0.42
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE2	13	0.42
(1,1016)	1:521:A:VAL:HG12	1:526:A:MET:HE3	13	0.42
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE1	13	0.42
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE2	13	0.42
(1,1016)	1:521:A:VAL:HG13	1:526:A:MET:HE3	13	0.42
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE1	13	0.42
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE2	13	0.42
(1,1016)	1:521:A:VAL:HG21	1:526:A:MET:HE3	13	0.42
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE1	13	0.42
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE2	13	0.42
(1,1016)	1:521:A:VAL:HG22	1:526:A:MET:HE3	13	0.42
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE1	13	0.42
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE2	13	0.42
(1,1016)	1:521:A:VAL:HG23	1:526:A:MET:HE3	13	0.42
(1,989)	1:513:A:LEU:HD11	1:517:A:ILE:H	3	0.41
(1,989)	1:513:A:LEU:HD12	1:517:A:ILE:H	3	0.41
(1,989)	1:513:A:LEU:HD13	1:517:A:ILE:H	3	0.41
(1,989)	1:513:A:LEU:HD21	1:517:A:ILE:H	3	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,989)	1:513:A:LEU:HD22	1:517:A:ILE:H	3	0.41
(1,989)	1:513:A:LEU:HD23	1:517:A:ILE:H	3	0.41
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG11	2	0.4
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG12	2	0.4
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG13	2	0.4
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG21	2	0.4
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG22	2	0.4
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG23	2	0.4
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG11	8	0.4
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG12	8	0.4
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG13	8	0.4
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG21	8	0.4
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG22	8	0.4
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG23	8	0.4
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB1	6	0.4
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB2	6	0.4
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB3	6	0.4
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB1	6	0.4
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB2	6	0.4
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB3	6	0.4
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB1	6	0.4
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB2	6	0.4
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB3	6	0.4
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB1	6	0.4
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB2	6	0.4
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB3	6	0.4
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB1	6	0.4
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB2	6	0.4
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB3	6	0.4
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB1	6	0.4
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB2	6	0.4
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB3	6	0.4
(1,964)	1:477:A:LEU:HD11	1:478:A:PRO:HD2	12	0.4
(1,964)	1:477:A:LEU:HD11	1:478:A:PRO:HD3	12	0.4
(1,964)	1:477:A:LEU:HD12	1:478:A:PRO:HD2	12	0.4
(1,964)	1:477:A:LEU:HD12	1:478:A:PRO:HD3	12	0.4
(1,964)	1:477:A:LEU:HD13	1:478:A:PRO:HD2	12	0.4
(1,964)	1:477:A:LEU:HD13	1:478:A:PRO:HD3	12	0.4
(1,964)	1:477:A:LEU:HD21	1:478:A:PRO:HD2	12	0.4
(1,964)	1:477:A:LEU:HD21	1:478:A:PRO:HD3	12	0.4
(1,964)	1:477:A:LEU:HD22	1:478:A:PRO:HD2	12	0.4
(1,964)	1:477:A:LEU:HD22	1:478:A:PRO:HD3	12	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,964)	1:477:A:LEU:HD23	1:478:A:PRO:HD2	12	0.4
(1,964)	1:477:A:LEU:HD23	1:478:A:PRO:HD3	12	0.4
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG11	5	0.39
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG12	5	0.39
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG13	5	0.39
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG21	5	0.39
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG22	5	0.39
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG23	5	0.39
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG11	13	0.39
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG12	13	0.39
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG13	13	0.39
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG21	13	0.39
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG22	13	0.39
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG23	13	0.39
(1,987)	1:513:A:LEU:HD11	1:515:A:ALA:H	11	0.39
(1,987)	1:513:A:LEU:HD12	1:515:A:ALA:H	11	0.39
(1,987)	1:513:A:LEU:HD13	1:515:A:ALA:H	11	0.39
(1,987)	1:513:A:LEU:HD21	1:515:A:ALA:H	11	0.39
(1,987)	1:513:A:LEU:HD22	1:515:A:ALA:H	11	0.39
(1,987)	1:513:A:LEU:HD23	1:515:A:ALA:H	11	0.39
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD11	1	0.38
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD12	1	0.38
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD13	1	0.38
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD21	1	0.38
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD22	1	0.38
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD23	1	0.38
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD11	1	0.38
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD12	1	0.38
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD13	1	0.38
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD21	1	0.38
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD22	1	0.38
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD23	1	0.38
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD11	11	0.37
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD12	11	0.37
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD13	11	0.37
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD21	11	0.37
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD22	11	0.37
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD23	11	0.37
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD11	11	0.37
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD12	11	0.37
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD13	11	0.37
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD21	11	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD22	11	0.37
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD23	11	0.37
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD21	11	0.37
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD22	11	0.37
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD21	11	0.37
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD22	11	0.37
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD21	11	0.37
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD22	11	0.37
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD21	11	0.37
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD22	11	0.37
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD21	11	0.37
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD22	11	0.37
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD21	11	0.37
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD22	11	0.37
(1,1013)	1:521:A:VAL:HG11	1:525:A:ASP:HB3	5	0.37
(1,1013)	1:521:A:VAL:HG12	1:525:A:ASP:HB3	5	0.37
(1,1013)	1:521:A:VAL:HG13	1:525:A:ASP:HB3	5	0.37
(1,1013)	1:521:A:VAL:HG21	1:525:A:ASP:HB3	5	0.37
(1,1013)	1:521:A:VAL:HG22	1:525:A:ASP:HB3	5	0.37
(1,1013)	1:521:A:VAL:HG23	1:525:A:ASP:HB3	5	0.37
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG2	14	0.37
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG3	14	0.37
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG2	14	0.37
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG3	14	0.37
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG2	14	0.37
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG3	14	0.37
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG2	14	0.37
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG3	14	0.37
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG2	14	0.37
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG3	14	0.37
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG2	14	0.37
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG3	14	0.37
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD11	14	0.36
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD12	14	0.36
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD13	14	0.36
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD21	14	0.36
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD22	14	0.36
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD23	14	0.36
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD11	2	0.36
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD12	2	0.36
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD13	2	0.36
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD21	2	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD22	2	0.36
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD23	2	0.36
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD11	2	0.36
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD12	2	0.36
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD13	2	0.36
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD21	2	0.36
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD22	2	0.36
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD23	2	0.36
(1,1144)	1:550:A:LEU:HD11	1:551:A:ARG:HA	5	0.36
(1,1144)	1:550:A:LEU:HD12	1:551:A:ARG:HA	5	0.36
(1,1144)	1:550:A:LEU:HD13	1:551:A:ARG:HA	5	0.36
(1,1144)	1:550:A:LEU:HD21	1:551:A:ARG:HA	5	0.36
(1,1144)	1:550:A:LEU:HD22	1:551:A:ARG:HA	5	0.36
(1,1144)	1:550:A:LEU:HD23	1:551:A:ARG:HA	5	0.36
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG11	3	0.36
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG12	3	0.36
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG13	3	0.36
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG21	3	0.36
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG22	3	0.36
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG23	3	0.36
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG11	3	0.36
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG12	3	0.36
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG13	3	0.36
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG21	3	0.36
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG22	3	0.36
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG23	3	0.36
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD21	2	0.36
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD22	2	0.36
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD21	2	0.36
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD22	2	0.36
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD21	2	0.36
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD22	2	0.36
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD21	2	0.36
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD22	2	0.36
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD21	2	0.36
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD22	2	0.36
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD21	2	0.36
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD22	2	0.36
(1,1013)	1:521:A:VAL:HG11	1:525:A:ASP:HB3	1	0.36
(1,1013)	1:521:A:VAL:HG12	1:525:A:ASP:HB3	1	0.36
(1,1013)	1:521:A:VAL:HG13	1:525:A:ASP:HB3	1	0.36
(1,1013)	1:521:A:VAL:HG21	1:525:A:ASP:HB3	1	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1013)	1:521:A:VAL:HG22	1:525:A:ASP:HB3	1	0.36
(1,1013)	1:521:A:VAL:HG23	1:525:A:ASP:HB3	1	0.36
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD11	3	0.36
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD12	3	0.36
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD13	3	0.36
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD21	3	0.36
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD22	3	0.36
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD23	3	0.36
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG11	4	0.35
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG12	4	0.35
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG13	4	0.35
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG21	4	0.35
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG22	4	0.35
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG23	4	0.35
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB1	10	0.35
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB2	10	0.35
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB3	10	0.35
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB1	10	0.35
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB2	10	0.35
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB3	10	0.35
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB1	10	0.35
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB2	10	0.35
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB3	10	0.35
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB1	10	0.35
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB2	10	0.35
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB3	10	0.35
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB1	10	0.35
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB2	10	0.35
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB3	10	0.35
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB1	10	0.35
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB2	10	0.35
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB3	10	0.35
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD11	1	0.35
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD12	1	0.35
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD13	1	0.35
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD21	1	0.35
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD22	1	0.35
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD23	1	0.35
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD11	1	0.35
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD12	1	0.35
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD13	1	0.35
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD21	1	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD22	1	0.35
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD23	1	0.35
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB2	9	0.35
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB3	9	0.35
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB2	9	0.35
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB3	9	0.35
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB2	9	0.35
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB3	9	0.35
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB2	9	0.35
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB3	9	0.35
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB2	9	0.35
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB3	9	0.35
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB2	9	0.35
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB3	9	0.35
(1,1144)	1:550:A:LEU:HD11	1:551:A:ARG:HA	9	0.34
(1,1144)	1:550:A:LEU:HD12	1:551:A:ARG:HA	9	0.34
(1,1144)	1:550:A:LEU:HD13	1:551:A:ARG:HA	9	0.34
(1,1144)	1:550:A:LEU:HD21	1:551:A:ARG:HA	9	0.34
(1,1144)	1:550:A:LEU:HD22	1:551:A:ARG:HA	9	0.34
(1,1144)	1:550:A:LEU:HD23	1:551:A:ARG:HA	9	0.34
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG11	10	0.34
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG12	10	0.34
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG13	10	0.34
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG21	10	0.34
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG22	10	0.34
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG23	10	0.34
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG11	10	0.34
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG12	10	0.34
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG13	10	0.34
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG21	10	0.34
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG22	10	0.34
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG23	10	0.34
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD11	15	0.34
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD12	15	0.34
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD13	15	0.34
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD21	15	0.34
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD22	15	0.34
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD23	15	0.34
(1,1143)	1:550:A:LEU:HD11	1:551:A:ARG:H	11	0.33
(1,1143)	1:550:A:LEU:HD12	1:551:A:ARG:H	11	0.33
(1,1143)	1:550:A:LEU:HD13	1:551:A:ARG:H	11	0.33
(1,1143)	1:550:A:LEU:HD21	1:551:A:ARG:H	11	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1143)	1:550:A:LEU:HD22	1:551:A:ARG:H	11	0.33
(1,1143)	1:550:A:LEU:HD23	1:551:A:ARG:H	11	0.33
(1,984)	1:513:A:LEU:HD11	1:514:A:PHE:HA	5	0.33
(1,984)	1:513:A:LEU:HD12	1:514:A:PHE:HA	5	0.33
(1,984)	1:513:A:LEU:HD13	1:514:A:PHE:HA	5	0.33
(1,984)	1:513:A:LEU:HD21	1:514:A:PHE:HA	5	0.33
(1,984)	1:513:A:LEU:HD22	1:514:A:PHE:HA	5	0.33
(1,984)	1:513:A:LEU:HD23	1:514:A:PHE:HA	5	0.33
(1,1151)	1:550:A:LEU:HD11	1:556:A:ASP:HB2	10	0.32
(1,1151)	1:550:A:LEU:HD11	1:556:A:ASP:HB3	10	0.32
(1,1151)	1:550:A:LEU:HD12	1:556:A:ASP:HB2	10	0.32
(1,1151)	1:550:A:LEU:HD12	1:556:A:ASP:HB3	10	0.32
(1,1151)	1:550:A:LEU:HD13	1:556:A:ASP:HB2	10	0.32
(1,1151)	1:550:A:LEU:HD13	1:556:A:ASP:HB3	10	0.32
(1,1151)	1:550:A:LEU:HD21	1:556:A:ASP:HB2	10	0.32
(1,1151)	1:550:A:LEU:HD21	1:556:A:ASP:HB3	10	0.32
(1,1151)	1:550:A:LEU:HD22	1:556:A:ASP:HB2	10	0.32
(1,1151)	1:550:A:LEU:HD22	1:556:A:ASP:HB3	10	0.32
(1,1151)	1:550:A:LEU:HD23	1:556:A:ASP:HB2	10	0.32
(1,1151)	1:550:A:LEU:HD23	1:556:A:ASP:HB3	10	0.32
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG11	6	0.31
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG12	6	0.31
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG13	6	0.31
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG21	6	0.31
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG22	6	0.31
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG23	6	0.31
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG11	15	0.31
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG12	15	0.31
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG13	15	0.31
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG21	15	0.31
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG22	15	0.31
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG23	15	0.31
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD21	14	0.31
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD22	14	0.31
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD21	14	0.31
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD22	14	0.31
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD21	14	0.31
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD22	14	0.31
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD21	14	0.31
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD22	14	0.31
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD21	14	0.31
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD22	14	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD21	14	0.31
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD22	14	0.31
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG11	2	0.31
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG12	2	0.31
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG13	2	0.31
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG21	2	0.31
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG22	2	0.31
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG23	2	0.31
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG11	2	0.31
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG12	2	0.31
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG13	2	0.31
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG21	2	0.31
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG22	2	0.31
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG23	2	0.31
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB2	13	0.31
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB3	13	0.31
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB2	13	0.31
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB3	13	0.31
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB2	13	0.31
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB3	13	0.31
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB2	13	0.31
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB3	13	0.31
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB2	13	0.31
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB3	13	0.31
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB2	13	0.31
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB3	13	0.31
(1,1143)	1:550:A:LEU:HD11	1:551:A:ARG:H	2	0.3
(1,1143)	1:550:A:LEU:HD12	1:551:A:ARG:H	2	0.3
(1,1143)	1:550:A:LEU:HD13	1:551:A:ARG:H	2	0.3
(1,1143)	1:550:A:LEU:HD21	1:551:A:ARG:H	2	0.3
(1,1143)	1:550:A:LEU:HD22	1:551:A:ARG:H	2	0.3
(1,1143)	1:550:A:LEU:HD23	1:551:A:ARG:H	2	0.3
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG11	2	0.3
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG12	2	0.3
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG13	2	0.3
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG21	2	0.3
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG22	2	0.3
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG23	2	0.3
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG11	2	0.3
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG12	2	0.3
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG13	2	0.3
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG21	2	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG22	2	0.3
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG23	2	0.3
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD21	12	0.3
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD22	12	0.3
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD21	12	0.3
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD22	12	0.3
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD21	12	0.3
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD22	12	0.3
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD21	12	0.3
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD22	12	0.3
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD21	12	0.3
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD22	12	0.3
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD21	12	0.3
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD22	12	0.3
(1,1202)	1:566:A:LEU:HD11	1:569:A:GLN:HB2	3	0.29
(1,1202)	1:566:A:LEU:HD11	1:569:A:GLN:HB3	3	0.29
(1,1202)	1:566:A:LEU:HD12	1:569:A:GLN:HB2	3	0.29
(1,1202)	1:566:A:LEU:HD12	1:569:A:GLN:HB3	3	0.29
(1,1202)	1:566:A:LEU:HD13	1:569:A:GLN:HB2	3	0.29
(1,1202)	1:566:A:LEU:HD13	1:569:A:GLN:HB3	3	0.29
(1,1202)	1:566:A:LEU:HD21	1:569:A:GLN:HB2	3	0.29
(1,1202)	1:566:A:LEU:HD21	1:569:A:GLN:HB3	3	0.29
(1,1202)	1:566:A:LEU:HD22	1:569:A:GLN:HB2	3	0.29
(1,1202)	1:566:A:LEU:HD22	1:569:A:GLN:HB3	3	0.29
(1,1202)	1:566:A:LEU:HD23	1:569:A:GLN:HB2	3	0.29
(1,1202)	1:566:A:LEU:HD23	1:569:A:GLN:HB3	3	0.29
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD11	11	0.29
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD12	11	0.29
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD13	11	0.29
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD21	11	0.29
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD22	11	0.29
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD23	11	0.29
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD11	11	0.29
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD12	11	0.29
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD13	11	0.29
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD21	11	0.29
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD22	11	0.29
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD23	11	0.29
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD11	9	0.28
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD12	9	0.28
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD13	9	0.28
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD21	9	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD22	9	0.28
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD23	9	0.28
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD11	9	0.28
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD12	9	0.28
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD13	9	0.28
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD21	9	0.28
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD22	9	0.28
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD23	9	0.28
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD11	11	0.27
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD12	11	0.27
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD13	11	0.27
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD21	11	0.27
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD22	11	0.27
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD23	11	0.27
(1,1150)	1:550:A:LEU:HD11	1:556:A:ASP:HA	11	0.27
(1,1150)	1:550:A:LEU:HD12	1:556:A:ASP:HA	11	0.27
(1,1150)	1:550:A:LEU:HD13	1:556:A:ASP:HA	11	0.27
(1,1150)	1:550:A:LEU:HD21	1:556:A:ASP:HA	11	0.27
(1,1150)	1:550:A:LEU:HD22	1:556:A:ASP:HA	11	0.27
(1,1150)	1:550:A:LEU:HD23	1:556:A:ASP:HA	11	0.27
(1,1146)	1:550:A:LEU:HD11	1:551:A:ARG:HD2	2	0.27
(1,1146)	1:550:A:LEU:HD11	1:551:A:ARG:HD3	2	0.27
(1,1146)	1:550:A:LEU:HD12	1:551:A:ARG:HD2	2	0.27
(1,1146)	1:550:A:LEU:HD12	1:551:A:ARG:HD3	2	0.27
(1,1146)	1:550:A:LEU:HD13	1:551:A:ARG:HD2	2	0.27
(1,1146)	1:550:A:LEU:HD13	1:551:A:ARG:HD3	2	0.27
(1,1146)	1:550:A:LEU:HD21	1:551:A:ARG:HD2	2	0.27
(1,1146)	1:550:A:LEU:HD21	1:551:A:ARG:HD3	2	0.27
(1,1146)	1:550:A:LEU:HD22	1:551:A:ARG:HD2	2	0.27
(1,1146)	1:550:A:LEU:HD22	1:551:A:ARG:HD3	2	0.27
(1,1146)	1:550:A:LEU:HD23	1:551:A:ARG:HD2	2	0.27
(1,1146)	1:550:A:LEU:HD23	1:551:A:ARG:HD3	2	0.27
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD11	14	0.27
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD12	14	0.27
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD13	14	0.27
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD21	14	0.27
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD22	14	0.27
(1,1021)	1:523:A:GLU:HG2	1:527:A:LEU:HD23	14	0.27
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD11	14	0.27
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD12	14	0.27
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD13	14	0.27
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD21	14	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD22	14	0.27
(1,1021)	1:523:A:GLU:HG3	1:527:A:LEU:HD23	14	0.27
(1,988)	1:513:A:LEU:HD11	1:516:A:ALA:H	4	0.27
(1,988)	1:513:A:LEU:HD12	1:516:A:ALA:H	4	0.27
(1,988)	1:513:A:LEU:HD13	1:516:A:ALA:H	4	0.27
(1,988)	1:513:A:LEU:HD21	1:516:A:ALA:H	4	0.27
(1,988)	1:513:A:LEU:HD22	1:516:A:ALA:H	4	0.27
(1,988)	1:513:A:LEU:HD23	1:516:A:ALA:H	4	0.27
(1,987)	1:513:A:LEU:HD11	1:515:A:ALA:H	6	0.27
(1,987)	1:513:A:LEU:HD12	1:515:A:ALA:H	6	0.27
(1,987)	1:513:A:LEU:HD13	1:515:A:ALA:H	6	0.27
(1,987)	1:513:A:LEU:HD21	1:515:A:ALA:H	6	0.27
(1,987)	1:513:A:LEU:HD22	1:515:A:ALA:H	6	0.27
(1,987)	1:513:A:LEU:HD23	1:515:A:ALA:H	6	0.27
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG11	9	0.26
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG12	9	0.26
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG13	9	0.26
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG21	9	0.26
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG22	9	0.26
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG23	9	0.26
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB1	3	0.26
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB2	3	0.26
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB3	3	0.26
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB1	3	0.26
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB2	3	0.26
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB3	3	0.26
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB1	3	0.26
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB2	3	0.26
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB3	3	0.26
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB1	3	0.26
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB2	3	0.26
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB3	3	0.26
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB1	3	0.26
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB2	3	0.26
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB3	3	0.26
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB1	3	0.26
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB2	3	0.26
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB3	3	0.26
(1,987)	1:513:A:LEU:HD11	1:515:A:ALA:H	14	0.26
(1,987)	1:513:A:LEU:HD12	1:515:A:ALA:H	14	0.26
(1,987)	1:513:A:LEU:HD13	1:515:A:ALA:H	14	0.26
(1,987)	1:513:A:LEU:HD21	1:515:A:ALA:H	14	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,987)	1:513:A:LEU:HD22	1:515:A:ALA:H	14	0.26
(1,987)	1:513:A:LEU:HD23	1:515:A:ALA:H	14	0.26
(1,984)	1:513:A:LEU:HD11	1:514:A:PHE:HA	7	0.26
(1,984)	1:513:A:LEU:HD12	1:514:A:PHE:HA	7	0.26
(1,984)	1:513:A:LEU:HD13	1:514:A:PHE:HA	7	0.26
(1,984)	1:513:A:LEU:HD21	1:514:A:PHE:HA	7	0.26
(1,984)	1:513:A:LEU:HD22	1:514:A:PHE:HA	7	0.26
(1,984)	1:513:A:LEU:HD23	1:514:A:PHE:HA	7	0.26
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD11	9	0.25
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD12	9	0.25
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD13	9	0.25
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD21	9	0.25
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD22	9	0.25
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD23	9	0.25
(1,1143)	1:550:A:LEU:HD11	1:551:A:ARG:H	3	0.25
(1,1143)	1:550:A:LEU:HD12	1:551:A:ARG:H	3	0.25
(1,1143)	1:550:A:LEU:HD13	1:551:A:ARG:H	3	0.25
(1,1143)	1:550:A:LEU:HD21	1:551:A:ARG:H	3	0.25
(1,1143)	1:550:A:LEU:HD22	1:551:A:ARG:H	3	0.25
(1,1143)	1:550:A:LEU:HD23	1:551:A:ARG:H	3	0.25
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG11	15	0.25
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG12	15	0.25
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG13	15	0.25
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG21	15	0.25
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG22	15	0.25
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG23	15	0.25
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG11	15	0.25
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG12	15	0.25
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG13	15	0.25
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG21	15	0.25
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG22	15	0.25
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG23	15	0.25
(1,1105)	1:536:A:LEU:HD11	1:546:A:PHE:HZ	7	0.24
(1,1105)	1:536:A:LEU:HD12	1:546:A:PHE:HZ	7	0.24
(1,1105)	1:536:A:LEU:HD13	1:546:A:PHE:HZ	7	0.24
(1,1105)	1:536:A:LEU:HD21	1:546:A:PHE:HZ	7	0.24
(1,1105)	1:536:A:LEU:HD22	1:546:A:PHE:HZ	7	0.24
(1,1105)	1:536:A:LEU:HD23	1:546:A:PHE:HZ	7	0.24
(1,613)	1:562:A:THR:HG21	1:566:A:LEU:HG	12	0.24
(1,613)	1:562:A:THR:HG22	1:566:A:LEU:HG	12	0.24
(1,613)	1:562:A:THR:HG23	1:566:A:LEU:HG	12	0.24
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD11	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD12	4	0.23
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD13	4	0.23
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD21	4	0.23
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD22	4	0.23
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD23	4	0.23
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG11	3	0.23
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG12	3	0.23
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG13	3	0.23
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG21	3	0.23
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG22	3	0.23
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG23	3	0.23
(1,1150)	1:550:A:LEU:HD11	1:556:A:ASP:HA	6	0.23
(1,1150)	1:550:A:LEU:HD12	1:556:A:ASP:HA	6	0.23
(1,1150)	1:550:A:LEU:HD13	1:556:A:ASP:HA	6	0.23
(1,1150)	1:550:A:LEU:HD21	1:556:A:ASP:HA	6	0.23
(1,1150)	1:550:A:LEU:HD22	1:556:A:ASP:HA	6	0.23
(1,1150)	1:550:A:LEU:HD23	1:556:A:ASP:HA	6	0.23
(1,964)	1:477:A:LEU:HD11	1:478:A:PRO:HD2	5	0.23
(1,964)	1:477:A:LEU:HD11	1:478:A:PRO:HD3	5	0.23
(1,964)	1:477:A:LEU:HD12	1:478:A:PRO:HD2	5	0.23
(1,964)	1:477:A:LEU:HD12	1:478:A:PRO:HD3	5	0.23
(1,964)	1:477:A:LEU:HD13	1:478:A:PRO:HD2	5	0.23
(1,964)	1:477:A:LEU:HD13	1:478:A:PRO:HD3	5	0.23
(1,964)	1:477:A:LEU:HD21	1:478:A:PRO:HD2	5	0.23
(1,964)	1:477:A:LEU:HD21	1:478:A:PRO:HD3	5	0.23
(1,964)	1:477:A:LEU:HD22	1:478:A:PRO:HD2	5	0.23
(1,964)	1:477:A:LEU:HD22	1:478:A:PRO:HD3	5	0.23
(1,964)	1:477:A:LEU:HD23	1:478:A:PRO:HD2	5	0.23
(1,964)	1:477:A:LEU:HD23	1:478:A:PRO:HD3	5	0.23
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD11	11	0.22
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD12	11	0.22
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD13	11	0.22
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD21	11	0.22
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD22	11	0.22
(1,1030)	1:526:A:MET:HG2	1:527:A:LEU:HD23	11	0.22
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD11	11	0.22
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD12	11	0.22
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD13	11	0.22
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD21	11	0.22
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD22	11	0.22
(1,1030)	1:526:A:MET:HG3	1:527:A:LEU:HD23	11	0.22
(1,613)	1:562:A:THR:HG21	1:566:A:LEU:HG	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,613)	1:562:A:THR:HG22	1:566:A:LEU:HG	3	0.22
(1,613)	1:562:A:THR:HG23	1:566:A:LEU:HG	3	0.22
(1,1143)	1:550:A:LEU:HD11	1:551:A:ARG:H	7	0.21
(1,1143)	1:550:A:LEU:HD12	1:551:A:ARG:H	7	0.21
(1,1143)	1:550:A:LEU:HD13	1:551:A:ARG:H	7	0.21
(1,1143)	1:550:A:LEU:HD21	1:551:A:ARG:H	7	0.21
(1,1143)	1:550:A:LEU:HD22	1:551:A:ARG:H	7	0.21
(1,1143)	1:550:A:LEU:HD23	1:551:A:ARG:H	7	0.21
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG11	6	0.21
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG12	6	0.21
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG13	6	0.21
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG21	6	0.21
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG22	6	0.21
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG23	6	0.21
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG11	6	0.21
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG12	6	0.21
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG13	6	0.21
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG21	6	0.21
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG22	6	0.21
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG23	6	0.21
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD11	7	0.21
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD12	7	0.21
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD13	7	0.21
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD21	7	0.21
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD22	7	0.21
(1,1073)	1:534:A:GLN:HB2	1:536:A:LEU:HD23	7	0.21
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD11	7	0.21
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD12	7	0.21
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD13	7	0.21
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD21	7	0.21
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD22	7	0.21
(1,1073)	1:534:A:GLN:HB3	1:536:A:LEU:HD23	7	0.21
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB2	6	0.21
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB3	6	0.21
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB2	6	0.21
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB3	6	0.21
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB2	6	0.21
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB3	6	0.21
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB2	6	0.21
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB3	6	0.21
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB2	6	0.21
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB3	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB2	6	0.21
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB3	6	0.21
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB2	12	0.21
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB3	12	0.21
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB2	12	0.21
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB3	12	0.21
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB2	12	0.21
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB3	12	0.21
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB2	12	0.21
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB3	12	0.21
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB2	12	0.21
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB3	12	0.21
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB2	12	0.21
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB3	12	0.21
(1,613)	1:562:A:THR:HG21	1:566:A:LEU:HG	15	0.21
(1,613)	1:562:A:THR:HG22	1:566:A:LEU:HG	15	0.21
(1,613)	1:562:A:THR:HG23	1:566:A:LEU:HG	15	0.21
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG11	12	0.2
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG12	12	0.2
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG13	12	0.2
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG21	12	0.2
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG22	12	0.2
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG23	12	0.2
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG11	10	0.2
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG12	10	0.2
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG13	10	0.2
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG21	10	0.2
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG22	10	0.2
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG23	10	0.2
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG11	10	0.2
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG12	10	0.2
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG13	10	0.2
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG21	10	0.2
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG22	10	0.2
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG23	10	0.2
(1,1132)	1:548:A:ARG:HA	1:548:A:ARG:HG2	3	0.2
(1,1132)	1:548:A:ARG:HA	1:548:A:ARG:HG3	3	0.2
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG11	6	0.2
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG12	6	0.2
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG13	6	0.2
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG21	6	0.2
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG22	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG23	6	0.2
(1,971)	1:481:A:LEU:HD11	1:482:A:GLU:H	7	0.2
(1,971)	1:481:A:LEU:HD12	1:482:A:GLU:H	7	0.2
(1,971)	1:481:A:LEU:HD13	1:482:A:GLU:H	7	0.2
(1,971)	1:481:A:LEU:HD21	1:482:A:GLU:H	7	0.2
(1,971)	1:481:A:LEU:HD22	1:482:A:GLU:H	7	0.2
(1,971)	1:481:A:LEU:HD23	1:482:A:GLU:H	7	0.2
(1,898)	1:476:A:ASP:H	1:477:A:LEU:H	11	0.2
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD11	10	0.19
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD12	10	0.19
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD13	10	0.19
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD21	10	0.19
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD22	10	0.19
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD23	10	0.19
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD11	13	0.19
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD12	13	0.19
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD13	13	0.19
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD21	13	0.19
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD22	13	0.19
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD23	13	0.19
(1,1161)	1:553:A:ILE:H	1:554:A:VAL:HG11	2	0.19
(1,1161)	1:553:A:ILE:H	1:554:A:VAL:HG12	2	0.19
(1,1161)	1:553:A:ILE:H	1:554:A:VAL:HG13	2	0.19
(1,1161)	1:553:A:ILE:H	1:554:A:VAL:HG21	2	0.19
(1,1161)	1:553:A:ILE:H	1:554:A:VAL:HG22	2	0.19
(1,1161)	1:553:A:ILE:H	1:554:A:VAL:HG23	2	0.19
(1,1144)	1:550:A:LEU:HD11	1:551:A:ARG:HA	15	0.19
(1,1144)	1:550:A:LEU:HD12	1:551:A:ARG:HA	15	0.19
(1,1144)	1:550:A:LEU:HD13	1:551:A:ARG:HA	15	0.19
(1,1144)	1:550:A:LEU:HD21	1:551:A:ARG:HA	15	0.19
(1,1144)	1:550:A:LEU:HD22	1:551:A:ARG:HA	15	0.19
(1,1144)	1:550:A:LEU:HD23	1:551:A:ARG:HA	15	0.19
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD21	9	0.19
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD22	9	0.19
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD21	9	0.19
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD22	9	0.19
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD21	9	0.19
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD22	9	0.19
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD21	9	0.19
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD22	9	0.19
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD21	9	0.19
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD22	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD21	9	0.19
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD22	9	0.19
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD11	2	0.19
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD12	2	0.19
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD13	2	0.19
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD21	2	0.19
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD22	2	0.19
(1,957)	1:476:A:ASP:HA	1:477:A:LEU:HD23	2	0.19
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD11	1	0.18
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD12	1	0.18
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD13	1	0.18
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD21	1	0.18
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD22	1	0.18
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD23	1	0.18
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG11	8	0.18
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG12	8	0.18
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG13	8	0.18
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG21	8	0.18
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG22	8	0.18
(1,1154)	1:551:A:ARG:HA	1:554:A:VAL:HG23	8	0.18
(1,1145)	1:550:A:LEU:HD11	1:551:A:ARG:HB2	11	0.18
(1,1145)	1:550:A:LEU:HD11	1:551:A:ARG:HB3	11	0.18
(1,1145)	1:550:A:LEU:HD12	1:551:A:ARG:HB2	11	0.18
(1,1145)	1:550:A:LEU:HD12	1:551:A:ARG:HB3	11	0.18
(1,1145)	1:550:A:LEU:HD13	1:551:A:ARG:HB2	11	0.18
(1,1145)	1:550:A:LEU:HD13	1:551:A:ARG:HB3	11	0.18
(1,1145)	1:550:A:LEU:HD21	1:551:A:ARG:HB2	11	0.18
(1,1145)	1:550:A:LEU:HD21	1:551:A:ARG:HB3	11	0.18
(1,1145)	1:550:A:LEU:HD22	1:551:A:ARG:HB2	11	0.18
(1,1145)	1:550:A:LEU:HD22	1:551:A:ARG:HB3	11	0.18
(1,1145)	1:550:A:LEU:HD23	1:551:A:ARG:HB2	11	0.18
(1,1145)	1:550:A:LEU:HD23	1:551:A:ARG:HB3	11	0.18
(1,1143)	1:550:A:LEU:HD11	1:551:A:ARG:H	6	0.18
(1,1143)	1:550:A:LEU:HD12	1:551:A:ARG:H	6	0.18
(1,1143)	1:550:A:LEU:HD13	1:551:A:ARG:H	6	0.18
(1,1143)	1:550:A:LEU:HD21	1:551:A:ARG:H	6	0.18
(1,1143)	1:550:A:LEU:HD22	1:551:A:ARG:H	6	0.18
(1,1143)	1:550:A:LEU:HD23	1:551:A:ARG:H	6	0.18
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG11	9	0.18
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG12	9	0.18
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG13	9	0.18
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG21	9	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG22	9	0.18
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG23	9	0.18
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG11	9	0.18
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG12	9	0.18
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG13	9	0.18
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG21	9	0.18
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG22	9	0.18
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG23	9	0.18
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB1	14	0.18
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB2	14	0.18
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB3	14	0.18
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB1	14	0.18
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB2	14	0.18
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB3	14	0.18
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB1	14	0.18
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB2	14	0.18
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB3	14	0.18
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB1	14	0.18
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB2	14	0.18
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB3	14	0.18
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB1	14	0.18
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB2	14	0.18
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB3	14	0.18
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB1	14	0.18
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB2	14	0.18
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB3	14	0.18
(1,984)	1:513:A:LEU:HD11	1:514:A:PHE:HA	15	0.18
(1,984)	1:513:A:LEU:HD12	1:514:A:PHE:HA	15	0.18
(1,984)	1:513:A:LEU:HD13	1:514:A:PHE:HA	15	0.18
(1,984)	1:513:A:LEU:HD21	1:514:A:PHE:HA	15	0.18
(1,984)	1:513:A:LEU:HD22	1:514:A:PHE:HA	15	0.18
(1,984)	1:513:A:LEU:HD23	1:514:A:PHE:HA	15	0.18
(1,988)	1:513:A:LEU:HD11	1:516:A:ALA:H	11	0.17
(1,988)	1:513:A:LEU:HD12	1:516:A:ALA:H	11	0.17
(1,988)	1:513:A:LEU:HD13	1:516:A:ALA:H	11	0.17
(1,988)	1:513:A:LEU:HD21	1:516:A:ALA:H	11	0.17
(1,988)	1:513:A:LEU:HD22	1:516:A:ALA:H	11	0.17
(1,988)	1:513:A:LEU:HD23	1:516:A:ALA:H	11	0.17
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD11	2	0.16
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD12	2	0.16
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD13	2	0.16
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD21	2	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD22	2	0.16
(1,1193)	1:565:A:THR:HB	1:566:A:LEU:HD23	2	0.16
(1,1187)	1:562:A:THR:HA	1:566:A:LEU:HD11	8	0.16
(1,1187)	1:562:A:THR:HA	1:566:A:LEU:HD12	8	0.16
(1,1187)	1:562:A:THR:HA	1:566:A:LEU:HD13	8	0.16
(1,1187)	1:562:A:THR:HA	1:566:A:LEU:HD21	8	0.16
(1,1187)	1:562:A:THR:HA	1:566:A:LEU:HD22	8	0.16
(1,1187)	1:562:A:THR:HA	1:566:A:LEU:HD23	8	0.16
(1,1143)	1:550:A:LEU:HD11	1:551:A:ARG:H	4	0.16
(1,1143)	1:550:A:LEU:HD12	1:551:A:ARG:H	4	0.16
(1,1143)	1:550:A:LEU:HD13	1:551:A:ARG:H	4	0.16
(1,1143)	1:550:A:LEU:HD21	1:551:A:ARG:H	4	0.16
(1,1143)	1:550:A:LEU:HD22	1:551:A:ARG:H	4	0.16
(1,1143)	1:550:A:LEU:HD23	1:551:A:ARG:H	4	0.16
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG11	14	0.16
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG12	14	0.16
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG13	14	0.16
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG21	14	0.16
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG22	14	0.16
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG23	14	0.16
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB1	15	0.16
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB2	15	0.16
(1,1043)	1:527:A:LEU:HD11	1:531:A:ALA:HB3	15	0.16
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB1	15	0.16
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB2	15	0.16
(1,1043)	1:527:A:LEU:HD12	1:531:A:ALA:HB3	15	0.16
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB1	15	0.16
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB2	15	0.16
(1,1043)	1:527:A:LEU:HD13	1:531:A:ALA:HB3	15	0.16
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB1	15	0.16
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB2	15	0.16
(1,1043)	1:527:A:LEU:HD21	1:531:A:ALA:HB3	15	0.16
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB1	15	0.16
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB2	15	0.16
(1,1043)	1:527:A:LEU:HD22	1:531:A:ALA:HB3	15	0.16
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB1	15	0.16
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB2	15	0.16
(1,1043)	1:527:A:LEU:HD23	1:531:A:ALA:HB3	15	0.16
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG2	13	0.16
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG3	13	0.16
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG2	13	0.16
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG3	13	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG2	13	0.16
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG3	13	0.16
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG2	13	0.16
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG3	13	0.16
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG2	13	0.16
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG3	13	0.16
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG2	13	0.16
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG3	13	0.16
(1,929)	1:507:A:TRP:HA	1:507:A:TRP:HD1	10	0.16
(1,688)	1:567:A:GLN:HA	1:568:A:ASN:HB3	8	0.16
(1,30)	1:507:A:TRP:HH2	1:512:A:THR:HB	15	0.16
(1,25)	1:512:A:THR:HA	1:512:A:THR:HG21	4	0.16
(1,25)	1:512:A:THR:HA	1:512:A:THR:HG22	4	0.16
(1,25)	1:512:A:THR:HA	1:512:A:THR:HG23	4	0.16
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD11	8	0.15
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD12	8	0.15
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD13	8	0.15
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD21	8	0.15
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD22	8	0.15
(1,1192)	1:565:A:THR:HA	1:566:A:LEU:HD23	8	0.15
(1,1171)	1:554:A:VAL:HG11	1:558:A:LEU:HG	6	0.15
(1,1171)	1:554:A:VAL:HG12	1:558:A:LEU:HG	6	0.15
(1,1171)	1:554:A:VAL:HG13	1:558:A:LEU:HG	6	0.15
(1,1171)	1:554:A:VAL:HG21	1:558:A:LEU:HG	6	0.15
(1,1171)	1:554:A:VAL:HG22	1:558:A:LEU:HG	6	0.15
(1,1171)	1:554:A:VAL:HG23	1:558:A:LEU:HG	6	0.15
(1,1144)	1:550:A:LEU:HD11	1:551:A:ARG:HA	14	0.15
(1,1144)	1:550:A:LEU:HD12	1:551:A:ARG:HA	14	0.15
(1,1144)	1:550:A:LEU:HD13	1:551:A:ARG:HA	14	0.15
(1,1144)	1:550:A:LEU:HD21	1:551:A:ARG:HA	14	0.15
(1,1144)	1:550:A:LEU:HD22	1:551:A:ARG:HA	14	0.15
(1,1144)	1:550:A:LEU:HD23	1:551:A:ARG:HA	14	0.15
(1,1042)	1:527:A:LEU:HD11	1:531:A:ALA:H	5	0.15
(1,1042)	1:527:A:LEU:HD12	1:531:A:ALA:H	5	0.15
(1,1042)	1:527:A:LEU:HD13	1:531:A:ALA:H	5	0.15
(1,1042)	1:527:A:LEU:HD21	1:531:A:ALA:H	5	0.15
(1,1042)	1:527:A:LEU:HD22	1:531:A:ALA:H	5	0.15
(1,1042)	1:527:A:LEU:HD23	1:531:A:ALA:H	5	0.15
(1,1042)	1:527:A:LEU:HD11	1:531:A:ALA:H	6	0.15
(1,1042)	1:527:A:LEU:HD12	1:531:A:ALA:H	6	0.15
(1,1042)	1:527:A:LEU:HD13	1:531:A:ALA:H	6	0.15
(1,1042)	1:527:A:LEU:HD21	1:531:A:ALA:H	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1042)	1:527:A:LEU:HD22	1:531:A:ALA:H	6	0.15
(1,1042)	1:527:A:LEU:HD23	1:531:A:ALA:H	6	0.15
(1,987)	1:513:A:LEU:HD11	1:515:A:ALA:H	3	0.15
(1,987)	1:513:A:LEU:HD12	1:515:A:ALA:H	3	0.15
(1,987)	1:513:A:LEU:HD13	1:515:A:ALA:H	3	0.15
(1,987)	1:513:A:LEU:HD21	1:515:A:ALA:H	3	0.15
(1,987)	1:513:A:LEU:HD22	1:515:A:ALA:H	3	0.15
(1,987)	1:513:A:LEU:HD23	1:515:A:ALA:H	3	0.15
(1,487)	1:488:A:ARG:H	1:489:A:GLY:HA2	2	0.15
(1,487)	1:488:A:ARG:H	1:489:A:GLY:HA3	2	0.15
(1,1202)	1:566:A:LEU:HD11	1:569:A:GLN:HB2	2	0.14
(1,1202)	1:566:A:LEU:HD11	1:569:A:GLN:HB3	2	0.14
(1,1202)	1:566:A:LEU:HD12	1:569:A:GLN:HB2	2	0.14
(1,1202)	1:566:A:LEU:HD12	1:569:A:GLN:HB3	2	0.14
(1,1202)	1:566:A:LEU:HD13	1:569:A:GLN:HB2	2	0.14
(1,1202)	1:566:A:LEU:HD13	1:569:A:GLN:HB3	2	0.14
(1,1202)	1:566:A:LEU:HD21	1:569:A:GLN:HB2	2	0.14
(1,1202)	1:566:A:LEU:HD21	1:569:A:GLN:HB3	2	0.14
(1,1202)	1:566:A:LEU:HD22	1:569:A:GLN:HB2	2	0.14
(1,1202)	1:566:A:LEU:HD22	1:569:A:GLN:HB3	2	0.14
(1,1202)	1:566:A:LEU:HD23	1:569:A:GLN:HB2	2	0.14
(1,1202)	1:566:A:LEU:HD23	1:569:A:GLN:HB3	2	0.14
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG11	14	0.14
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG12	14	0.14
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG13	14	0.14
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG21	14	0.14
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG22	14	0.14
(1,1008)	1:520:A:LYS:HE2	1:521:A:VAL:HG23	14	0.14
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG11	14	0.14
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG12	14	0.14
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG13	14	0.14
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG21	14	0.14
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG22	14	0.14
(1,1008)	1:520:A:LYS:HE3	1:521:A:VAL:HG23	14	0.14
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG11	12	0.14
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG12	12	0.14
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG13	12	0.14
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG21	12	0.14
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG22	12	0.14
(1,990)	1:514:A:PHE:HB3	1:521:A:VAL:HG23	12	0.14
(1,989)	1:513:A:LEU:HD11	1:517:A:ILE:H	2	0.14
(1,989)	1:513:A:LEU:HD12	1:517:A:ILE:H	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,989)	1:513:A:LEU:HD13	1:517:A:ILE:H	2	0.14
(1,989)	1:513:A:LEU:HD21	1:517:A:ILE:H	2	0.14
(1,989)	1:513:A:LEU:HD22	1:517:A:ILE:H	2	0.14
(1,989)	1:513:A:LEU:HD23	1:517:A:ILE:H	2	0.14
(1,989)	1:513:A:LEU:HD11	1:517:A:ILE:H	13	0.14
(1,989)	1:513:A:LEU:HD12	1:517:A:ILE:H	13	0.14
(1,989)	1:513:A:LEU:HD13	1:517:A:ILE:H	13	0.14
(1,989)	1:513:A:LEU:HD21	1:517:A:ILE:H	13	0.14
(1,989)	1:513:A:LEU:HD22	1:517:A:ILE:H	13	0.14
(1,989)	1:513:A:LEU:HD23	1:517:A:ILE:H	13	0.14
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB2	14	0.14
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB3	14	0.14
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB2	14	0.14
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB3	14	0.14
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB2	14	0.14
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB3	14	0.14
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB2	14	0.14
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB3	14	0.14
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB2	14	0.14
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB3	14	0.14
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB2	14	0.14
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB3	14	0.14
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG2	10	0.14
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG3	10	0.14
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG2	10	0.14
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG3	10	0.14
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG2	10	0.14
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG3	10	0.14
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG2	10	0.14
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG3	10	0.14
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG2	10	0.14
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG3	10	0.14
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG2	10	0.14
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG3	10	0.14
(1,1201)	1:566:A:LEU:HD11	1:567:A:GLN:HE21	9	0.13
(1,1201)	1:566:A:LEU:HD11	1:567:A:GLN:HE22	9	0.13
(1,1201)	1:566:A:LEU:HD12	1:567:A:GLN:HE21	9	0.13
(1,1201)	1:566:A:LEU:HD12	1:567:A:GLN:HE22	9	0.13
(1,1201)	1:566:A:LEU:HD13	1:567:A:GLN:HE21	9	0.13
(1,1201)	1:566:A:LEU:HD13	1:567:A:GLN:HE22	9	0.13
(1,1201)	1:566:A:LEU:HD21	1:567:A:GLN:HE21	9	0.13
(1,1201)	1:566:A:LEU:HD21	1:567:A:GLN:HE22	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1201)	1:566:A:LEU:HD22	1:567:A:GLN:HE21	9	0.13
(1,1201)	1:566:A:LEU:HD22	1:567:A:GLN:HE22	9	0.13
(1,1201)	1:566:A:LEU:HD23	1:567:A:GLN:HE21	9	0.13
(1,1201)	1:566:A:LEU:HD23	1:567:A:GLN:HE22	9	0.13
(1,1169)	1:554:A:VAL:HG11	1:558:A:LEU:H	6	0.13
(1,1169)	1:554:A:VAL:HG12	1:558:A:LEU:H	6	0.13
(1,1169)	1:554:A:VAL:HG13	1:558:A:LEU:H	6	0.13
(1,1169)	1:554:A:VAL:HG21	1:558:A:LEU:H	6	0.13
(1,1169)	1:554:A:VAL:HG22	1:558:A:LEU:H	6	0.13
(1,1169)	1:554:A:VAL:HG23	1:558:A:LEU:H	6	0.13
(1,1146)	1:550:A:LEU:HD11	1:551:A:ARG:HD2	14	0.13
(1,1146)	1:550:A:LEU:HD11	1:551:A:ARG:HD3	14	0.13
(1,1146)	1:550:A:LEU:HD12	1:551:A:ARG:HD2	14	0.13
(1,1146)	1:550:A:LEU:HD12	1:551:A:ARG:HD3	14	0.13
(1,1146)	1:550:A:LEU:HD13	1:551:A:ARG:HD2	14	0.13
(1,1146)	1:550:A:LEU:HD13	1:551:A:ARG:HD3	14	0.13
(1,1146)	1:550:A:LEU:HD21	1:551:A:ARG:HD2	14	0.13
(1,1146)	1:550:A:LEU:HD21	1:551:A:ARG:HD3	14	0.13
(1,1146)	1:550:A:LEU:HD22	1:551:A:ARG:HD2	14	0.13
(1,1146)	1:550:A:LEU:HD22	1:551:A:ARG:HD3	14	0.13
(1,1146)	1:550:A:LEU:HD23	1:551:A:ARG:HD2	14	0.13
(1,1146)	1:550:A:LEU:HD23	1:551:A:ARG:HD3	14	0.13
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG11	5	0.13
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG12	5	0.13
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG13	5	0.13
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG21	5	0.13
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG22	5	0.13
(1,1136)	1:549:A:LYS:HB2	1:552:A:VAL:HG23	5	0.13
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG11	5	0.13
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG12	5	0.13
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG13	5	0.13
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG21	5	0.13
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG22	5	0.13
(1,1136)	1:549:A:LYS:HB3	1:552:A:VAL:HG23	5	0.13
(1,1042)	1:527:A:LEU:HD11	1:531:A:ALA:H	14	0.13
(1,1042)	1:527:A:LEU:HD12	1:531:A:ALA:H	14	0.13
(1,1042)	1:527:A:LEU:HD13	1:531:A:ALA:H	14	0.13
(1,1042)	1:527:A:LEU:HD21	1:531:A:ALA:H	14	0.13
(1,1042)	1:527:A:LEU:HD22	1:531:A:ALA:H	14	0.13
(1,1042)	1:527:A:LEU:HD23	1:531:A:ALA:H	14	0.13
(1,964)	1:477:A:LEU:HD11	1:478:A:PRO:HD2	6	0.13
(1,964)	1:477:A:LEU:HD11	1:478:A:PRO:HD3	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,964)	1:477:A:LEU:HD12	1:478:A:PRO:HD2	6	0.13
(1,964)	1:477:A:LEU:HD12	1:478:A:PRO:HD3	6	0.13
(1,964)	1:477:A:LEU:HD13	1:478:A:PRO:HD2	6	0.13
(1,964)	1:477:A:LEU:HD13	1:478:A:PRO:HD3	6	0.13
(1,964)	1:477:A:LEU:HD21	1:478:A:PRO:HD2	6	0.13
(1,964)	1:477:A:LEU:HD21	1:478:A:PRO:HD3	6	0.13
(1,964)	1:477:A:LEU:HD22	1:478:A:PRO:HD2	6	0.13
(1,964)	1:477:A:LEU:HD22	1:478:A:PRO:HD3	6	0.13
(1,964)	1:477:A:LEU:HD23	1:478:A:PRO:HD2	6	0.13
(1,964)	1:477:A:LEU:HD23	1:478:A:PRO:HD3	6	0.13
(1,897)	1:475:A:LYS:HA	1:476:A:ASP:H	8	0.13
(1,896)	1:475:A:LYS:H	1:476:A:ASP:H	4	0.13
(1,688)	1:567:A:GLN:HA	1:568:A:ASN:HB3	9	0.13
(1,688)	1:567:A:GLN:HA	1:568:A:ASN:HB3	13	0.13
(1,633)	1:527:A:LEU:H	1:528:A:LEU:HG	2	0.13
(1,633)	1:527:A:LEU:H	1:528:A:LEU:HG	9	0.13
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD11	9	0.12
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD12	9	0.12
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD13	9	0.12
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD21	9	0.12
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD22	9	0.12
(1,1174)	1:557:A:ASP:HB2	1:558:A:LEU:HD23	9	0.12
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD11	9	0.12
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD12	9	0.12
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD13	9	0.12
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD21	9	0.12
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD22	9	0.12
(1,1174)	1:557:A:ASP:HB3	1:558:A:LEU:HD23	9	0.12
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG11	3	0.12
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG12	3	0.12
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG13	3	0.12
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG21	3	0.12
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG22	3	0.12
(1,1140)	1:550:A:LEU:H	1:552:A:VAL:HG23	3	0.12
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG11	15	0.12
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG12	15	0.12
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG13	15	0.12
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG21	15	0.12
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG22	15	0.12
(1,1137)	1:549:A:LYS:HE2	1:552:A:VAL:HG23	15	0.12
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG11	15	0.12
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG12	15	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG13	15	0.12
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG21	15	0.12
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG22	15	0.12
(1,1137)	1:549:A:LYS:HE3	1:552:A:VAL:HG23	15	0.12
(1,1091)	1:536:A:LEU:HD11	1:541:A:MET:H	11	0.12
(1,1091)	1:536:A:LEU:HD12	1:541:A:MET:H	11	0.12
(1,1091)	1:536:A:LEU:HD13	1:541:A:MET:H	11	0.12
(1,1091)	1:536:A:LEU:HD21	1:541:A:MET:H	11	0.12
(1,1091)	1:536:A:LEU:HD22	1:541:A:MET:H	11	0.12
(1,1091)	1:536:A:LEU:HD23	1:541:A:MET:H	11	0.12
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG2	9	0.12
(1,963)	1:477:A:LEU:HD11	1:478:A:PRO:HG3	9	0.12
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG2	9	0.12
(1,963)	1:477:A:LEU:HD12	1:478:A:PRO:HG3	9	0.12
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG2	9	0.12
(1,963)	1:477:A:LEU:HD13	1:478:A:PRO:HG3	9	0.12
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG2	9	0.12
(1,963)	1:477:A:LEU:HD21	1:478:A:PRO:HG3	9	0.12
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG2	9	0.12
(1,963)	1:477:A:LEU:HD22	1:478:A:PRO:HG3	9	0.12
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG2	9	0.12
(1,963)	1:477:A:LEU:HD23	1:478:A:PRO:HG3	9	0.12
(1,880)	1:573:A:LYS:HA	1:574:A:GLU:H	12	0.12
(1,751)	1:536:A:LEU:HA	1:542:A:THR:H	7	0.12
(1,688)	1:567:A:GLN:HA	1:568:A:ASN:HB3	1	0.12
(1,688)	1:567:A:GLN:HA	1:568:A:ASN:HB3	6	0.12
(1,688)	1:567:A:GLN:HA	1:568:A:ASN:HB3	12	0.12
(1,688)	1:567:A:GLN:HA	1:568:A:ASN:HB3	15	0.12
(1,633)	1:527:A:LEU:H	1:528:A:LEU:HG	5	0.12
(1,633)	1:527:A:LEU:H	1:528:A:LEU:HG	8	0.12
(1,590)	1:470:A:THR:HA	1:471:A:LEU:H	6	0.12
(1,576)	1:481:A:LEU:HA	1:482:A:GLU:H	7	0.12
(1,522)	1:550:A:LEU:H	1:551:A:ARG:HD2	10	0.12
(1,522)	1:550:A:LEU:H	1:551:A:ARG:HD3	10	0.12
(1,316)	1:549:A:LYS:HA	1:552:A:VAL:HB	7	0.12
(1,1042)	1:527:A:LEU:HD11	1:531:A:ALA:H	3	0.11
(1,1042)	1:527:A:LEU:HD12	1:531:A:ALA:H	3	0.11
(1,1042)	1:527:A:LEU:HD13	1:531:A:ALA:H	3	0.11
(1,1042)	1:527:A:LEU:HD21	1:531:A:ALA:H	3	0.11
(1,1042)	1:527:A:LEU:HD22	1:531:A:ALA:H	3	0.11
(1,1042)	1:527:A:LEU:HD23	1:531:A:ALA:H	3	0.11
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD21	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1041)	1:527:A:LEU:HD11	1:530:A:ASN:HD22	8	0.11
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD21	8	0.11
(1,1041)	1:527:A:LEU:HD12	1:530:A:ASN:HD22	8	0.11
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD21	8	0.11
(1,1041)	1:527:A:LEU:HD13	1:530:A:ASN:HD22	8	0.11
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD21	8	0.11
(1,1041)	1:527:A:LEU:HD21	1:530:A:ASN:HD22	8	0.11
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD21	8	0.11
(1,1041)	1:527:A:LEU:HD22	1:530:A:ASN:HD22	8	0.11
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD21	8	0.11
(1,1041)	1:527:A:LEU:HD23	1:530:A:ASN:HD22	8	0.11
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB2	8	0.11
(1,972)	1:481:A:LEU:HD11	1:482:A:GLU:HB3	8	0.11
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB2	8	0.11
(1,972)	1:481:A:LEU:HD12	1:482:A:GLU:HB3	8	0.11
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB2	8	0.11
(1,972)	1:481:A:LEU:HD13	1:482:A:GLU:HB3	8	0.11
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB2	8	0.11
(1,972)	1:481:A:LEU:HD21	1:482:A:GLU:HB3	8	0.11
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB2	8	0.11
(1,972)	1:481:A:LEU:HD22	1:482:A:GLU:HB3	8	0.11
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB2	8	0.11
(1,972)	1:481:A:LEU:HD23	1:482:A:GLU:HB3	8	0.11
(1,688)	1:567:A:GLN:HA	1:568:A:ASN:HB3	14	0.11
(1,643)	1:536:A:LEU:HA	1:546:A:PHE:HD1	3	0.11
(1,643)	1:536:A:LEU:HA	1:546:A:PHE:HD2	3	0.11
(1,633)	1:527:A:LEU:H	1:528:A:LEU:HG	1	0.11
(1,633)	1:527:A:LEU:H	1:528:A:LEU:HG	3	0.11
(1,633)	1:527:A:LEU:H	1:528:A:LEU:HG	6	0.11
(1,633)	1:527:A:LEU:H	1:528:A:LEU:HG	10	0.11
(1,558)	1:493:A:ALA:HB1	1:494:A:ASN:HA	4	0.11
(1,558)	1:493:A:ALA:HB2	1:494:A:ASN:HA	4	0.11
(1,558)	1:493:A:ALA:HB3	1:494:A:ASN:HA	4	0.11
(1,492)	1:506:A:PRO:HA	1:507:A:TRP:HD1	6	0.11
(1,30)	1:507:A:TRP:HH2	1:512:A:THR:HB	7	0.11
(1,688)	1:567:A:GLN:HA	1:568:A:ASN:HB3	5	0.1
(1,633)	1:527:A:LEU:H	1:528:A:LEU:HG	7	0.1
(1,630)	1:506:A:PRO:HA	1:508:A:MET:HE1	12	0.1
(1,630)	1:506:A:PRO:HA	1:508:A:MET:HE2	12	0.1
(1,630)	1:506:A:PRO:HA	1:508:A:MET:HE3	12	0.1
(1,608)	1:522:A:ALA:H	1:525:A:ASP:HA	7	0.1
(1,608)	1:522:A:ALA:H	1:525:A:ASP:HA	13	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,487)	1:488:A:ARG:H	1:489:A:GLY:HA2	9	0.1
(1,487)	1:488:A:ARG:H	1:489:A:GLY:HA3	9	0.1
(1,221)	1:528:A:LEU:H	1:528:A:LEU:HD11	4	0.1
(1,221)	1:528:A:LEU:H	1:528:A:LEU:HD12	4	0.1
(1,221)	1:528:A:LEU:H	1:528:A:LEU:HD13	4	0.1
(1,27)	1:563:A:ILE:HB	1:564:A:THR:HA	13	0.1

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

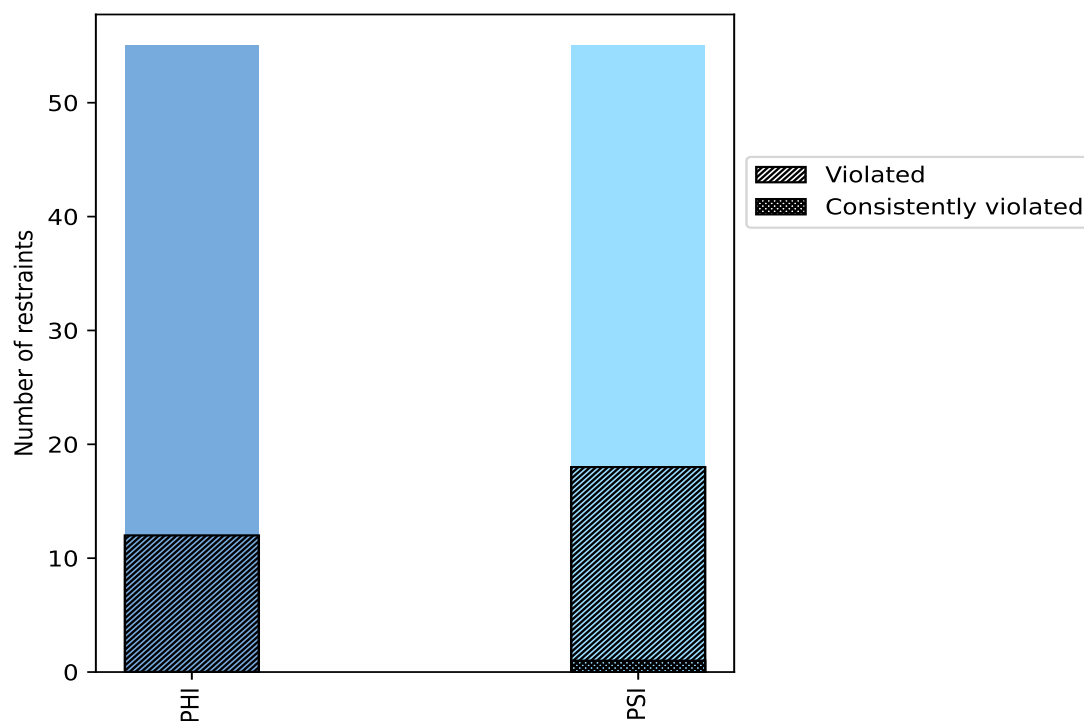
10.1 Summary of dihedral-angle violations [i](#)

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
PHI	55	50.0	12	21.8	10.9	0	0.0	0.0
PSI	55	50.0	18	32.7	16.4	1	1.8	0.9
Total	110	100.0	30	27.3	27.3	1	0.9	0.9

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](#)



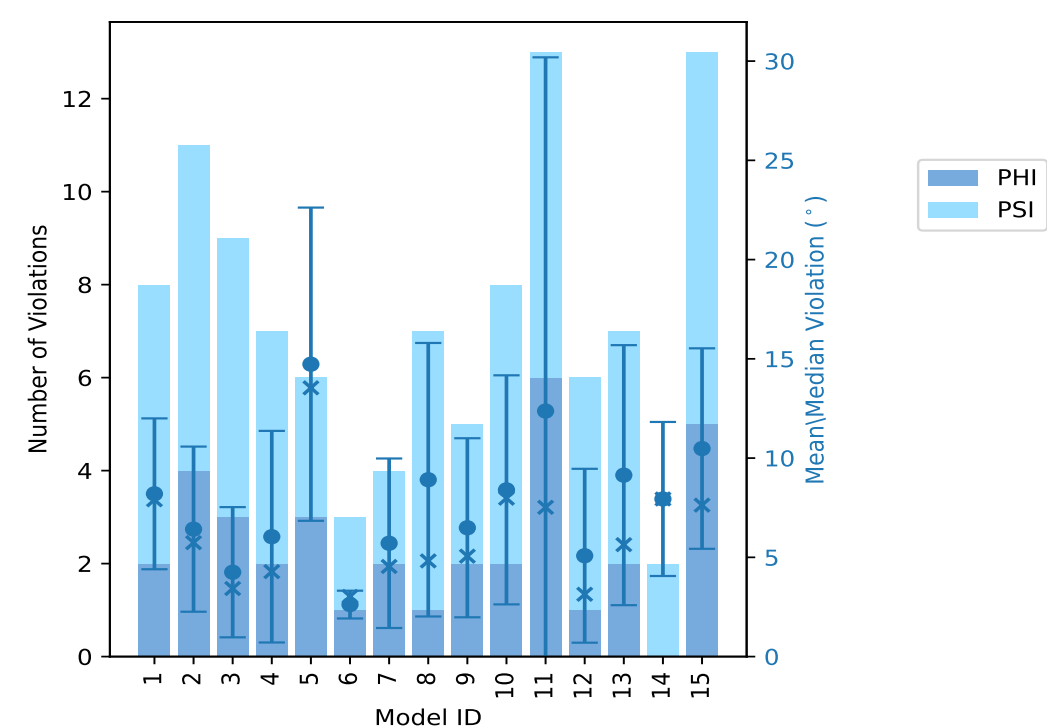
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model ⓘ

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 (°)
	PHI	PSI	Total				
1	2	6	8	8.2	16.9	3.8	7.9
2	4	7	11	6.42	13.96	4.16	5.74
3	3	6	9	4.25	11.42	3.28	3.43
4	2	5	7	6.04	17.07	5.33	4.28
5	3	3	6	14.73	30.63	7.89	13.54
6	1	2	3	2.62	3.2	0.7	3.03
7	2	2	4	5.71	12.02	4.27	4.54
8	1	6	7	8.91	22.5	6.89	4.82
9	2	3	5	6.49	15.36	4.51	5.06
10	2	6	8	8.4	20.05	5.77	7.98
11	6	7	13	12.37	72.58	17.82	7.52
12	1	5	6	5.08	13.72	4.38	3.14
13	2	5	7	9.14	22.47	6.55	5.64
14	0	2	2	7.94	11.82	3.88	7.94
15	5	8	13	10.48	17.97	5.05	7.63

10.2.1 Bar graph : Dihedral violation statistics for each model ⓘ



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

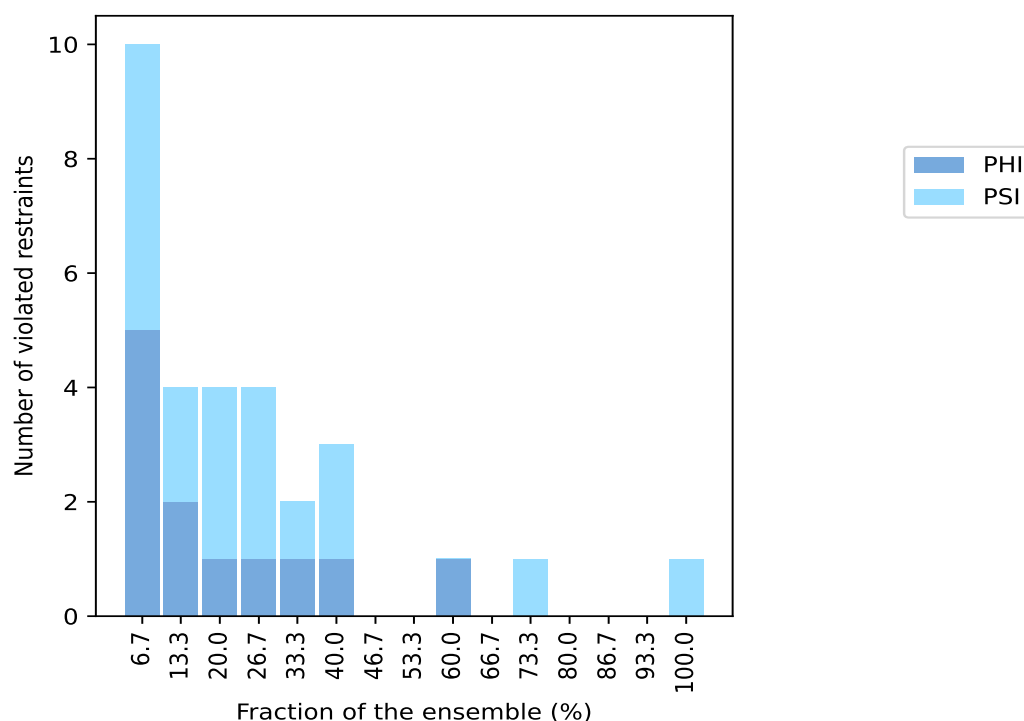
10.3 Dihedral-angle violation statistics for the ensemble [i](#)

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	
PHI	PSI	Total	Count ¹	%
5	5	10	1	6.7
2	2	4	2	13.3
1	3	4	3	20.0
1	3	4	4	26.7
1	1	2	5	33.3
1	2	3	6	40.0
0	0	0	7	46.7
0	0	0	8	53.3
1	0	1	9	60.0
0	0	0	10	66.7
0	1	1	11	73.3
0	0	0	12	80.0
0	0	0	13	86.7
0	0	0	14	93.3
0	1	1	15	100.0

¹ Number of models with violations

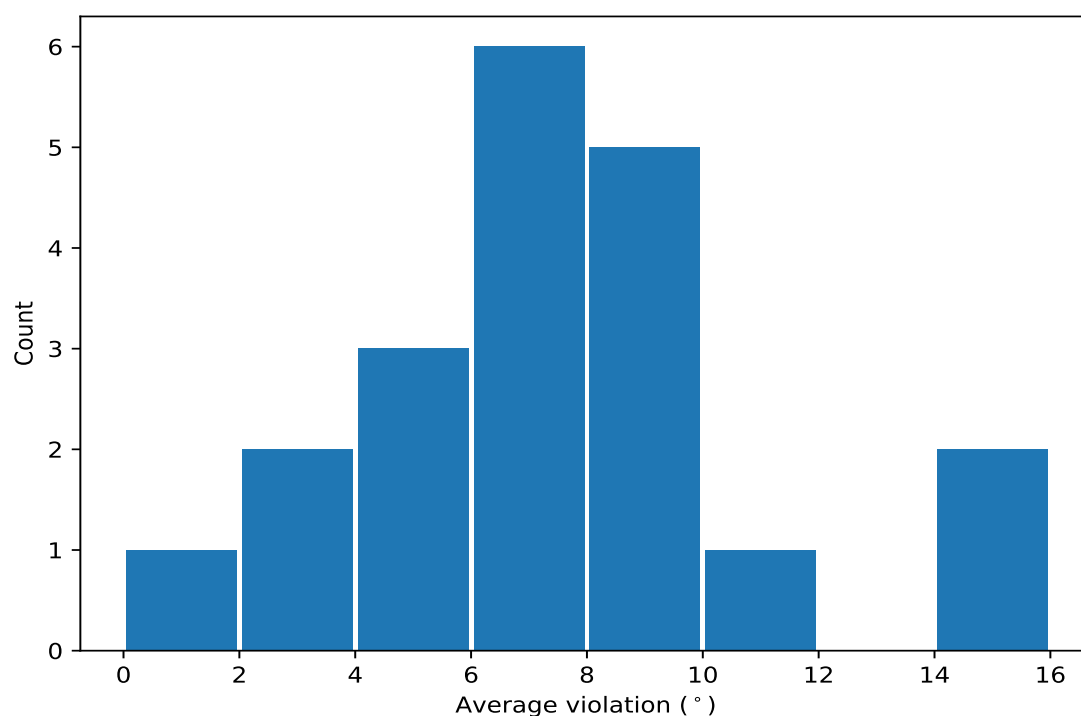
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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.

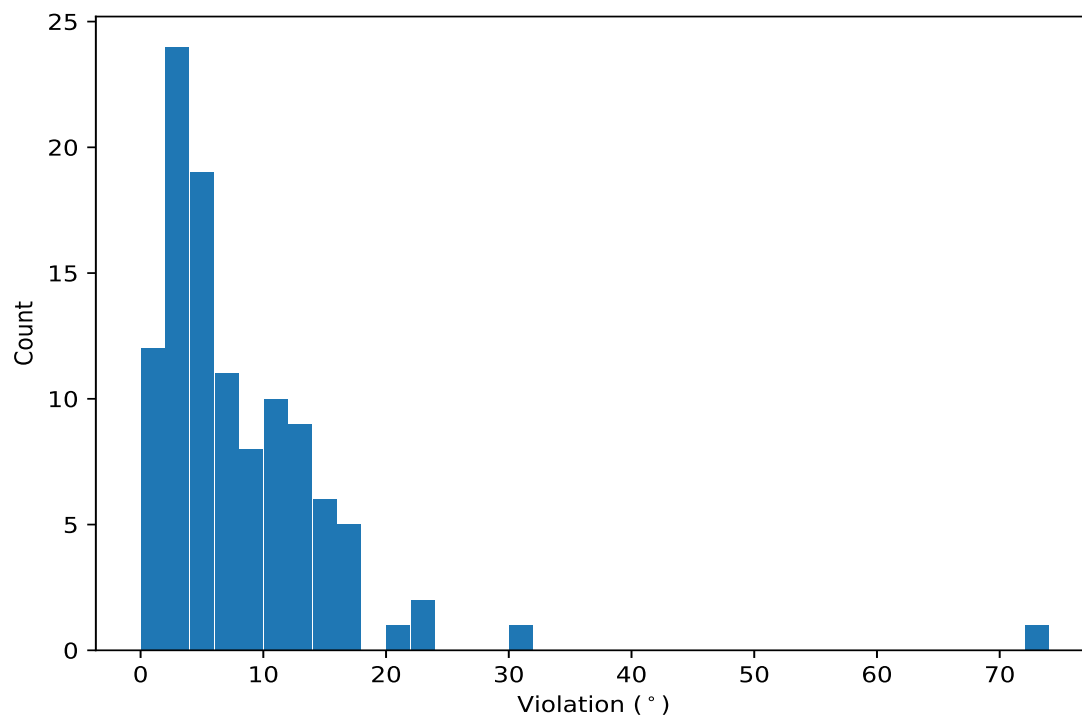
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,30)	1:526:A:MET:N	1:526:A:MET:CA	1:526:A:MET:C	1:527:A:LEU:N	15	6.98	3.73	5.64
(1,10)	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	1:517:A:ILE:N	11	15.05	8.04	15.36
(1,17)	1:519:A:HIS:C	1:520:A:LYS:N	1:520:A:LYS:CA	1:520:A:LYS:C	9	8.83	4.02	8.55
(1,98)	1:561:A:SER:N	1:561:A:SER:CA	1:561:A:SER:C	1:562:A:THR:N	6	6.76	4.22	5.38
(1,9)	1:515:A:ALA:C	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	6	6.39	6.24	2.46
(1,16)	1:519:A:HIS:N	1:519:A:HIS:CA	1:519:A:HIS:C	1:520:A:LYS:N	6	4.76	1.92	3.8
(1,75)	1:548:A:ARG:C	1:549:A:LYS:N	1:549:A:LYS:CA	1:549:A:LYS:C	5	9.54	3.6	8.82
(1,48)	1:535:A:GLN:N	1:535:A:GLN:CA	1:535:A:GLN:C	1:536:A:LEU:N	5	2.6	0.71	2.89
(1,11)	1:516:A:ALA:C	1:517:A:ILE:N	1:517:A:ILE:CA	1:517:A:ILE:C	4	10.67	3.68	12.01
(1,80)	1:551:A:ARG:N	1:551:A:ARG:CA	1:551:A:ARG:C	1:552:A:VAL:N	4	8.22	3.76	8.18
(1,8)	1:515:A:ALA:N	1:515:A:ALA:CA	1:515:A:ALA:C	1:516:A:ALA:N	4	8.06	2.59	7.98
(1,26)	1:524:A:ASN:N	1:524:A:ASN:CA	1:524:A:ASN:C	1:525:A:ASP:N	4	7.18	3.09	8.02
(1,74)	1:548:A:ARG:N	1:548:A:ARG:CA	1:548:A:ARG:C	1:549:A:LYS:N	3	15.41	4.14	16.18
(1,88)	1:556:A:ASP:N	1:556:A:ASP:CA	1:556:A:ASP:C	1:557:A:ASP:N	3	9.44	5.94	13.56
(1,76)	1:549:A:LYS:N	1:549:A:LYS:CA	1:549:A:LYS:C	1:550:A:LEU:N	3	7.91	6.36	3.8
(1,47)	1:534:A:GLN:C	1:535:A:GLN:N	1:535:A:GLN:CA	1:535:A:GLN:C	3	2.97	1.68	1.78
(1,109)	1:566:A:LEU:C	1:567:A:GLN:N	1:567:A:GLN:CA	1:567:A:GLN:C	2	7.4	5.53	7.4
(1,56)	1:539:A:LYS:N	1:539:A:LYS:CA	1:539:A:LYS:C	1:540:A:LYS:N	2	5.43	2.03	5.43
(1,110)	1:567:A:GLN:N	1:567:A:GLN:CA	1:567:A:GLN:C	1:568:A:ASN:N	2	5.05	2.47	5.05
(1,5)	1:513:A:LEU:C	1:514:A:PHE:N	1:514:A:PHE:CA	1:514:A:PHE:C	2	1.95	0.55	1.95

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 (°)
(1,1)	1:511:A:PRO:C	1:512:A:THR:N	1:512:A:THR:CA	1:512:A:THR:C	11	72.58
(1,10)	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	1:517:A:ILE:N	5	30.63
(1,10)	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	1:517:A:ILE:N	8	22.5
(1,10)	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	1:517:A:ILE:N	13	22.47
(1,74)	1:548:A:ARG:N	1:548:A:ARG:CA	1:548:A:ARG:C	1:549:A:LYS:N	10	20.05
(1,10)	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	1:517:A:ILE:N	15	17.97
(1,17)	1:519:A:HIS:C	1:520:A:LYS:N	1:520:A:LYS:CA	1:520:A:LYS:C	15	17.27
(1,10)	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	1:517:A:ILE:N	4	17.07
(1,76)	1:549:A:LYS:N	1:549:A:LYS:CA	1:549:A:LYS:C	1:550:A:LEU:N	1	16.9
(1,74)	1:548:A:ARG:N	1:548:A:ARG:CA	1:548:A:ARG:C	1:549:A:LYS:N	15	16.18
(1,9)	1:515:A:ALA:C	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	8	15.53

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,98)	1:561:A:SER:N	1:561:A:SER:CA	1:561:A:SER:C	1:562:A:THR:N	15	15.43
(1,10)	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	1:517:A:ILE:N	9	15.36
(1,75)	1:548:A:ARG:C	1:549:A:LYS:N	1:549:A:LYS:CA	1:549:A:LYS:C	11	14.88
(1,9)	1:515:A:ALA:C	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	5	14.83
(1,11)	1:516:A:ALA:C	1:517:A:ILE:N	1:517:A:ILE:CA	1:517:A:ILE:C	5	14.0
(1,10)	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	1:517:A:ILE:N	2	13.96
(1,88)	1:556:A:ASP:N	1:556:A:ASP:CA	1:556:A:ASP:C	1:557:A:ASP:N	12	13.72
(1,88)	1:556:A:ASP:N	1:556:A:ASP:CA	1:556:A:ASP:C	1:557:A:ASP:N	13	13.56
(1,80)	1:551:A:ARG:N	1:551:A:ARG:CA	1:551:A:ARG:C	1:552:A:VAL:N	15	13.46
(1,11)	1:516:A:ALA:C	1:517:A:ILE:N	1:517:A:ILE:CA	1:517:A:ILE:C	15	13.31
(1,30)	1:526:A:MET:N	1:526:A:MET:CA	1:526:A:MET:C	1:527:A:LEU:N	5	13.08
(1,109)	1:566:A:LEU:C	1:567:A:GLN:N	1:567:A:GLN:CA	1:567:A:GLN:C	11	12.93
(1,75)	1:548:A:ARG:C	1:549:A:LYS:N	1:549:A:LYS:CA	1:549:A:LYS:C	10	12.27
(1,17)	1:519:A:HIS:C	1:520:A:LYS:N	1:520:A:LYS:CA	1:520:A:LYS:C	7	12.02
(1,10)	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	1:517:A:ILE:N	11	11.91
(1,30)	1:526:A:MET:N	1:526:A:MET:CA	1:526:A:MET:C	1:527:A:LEU:N	2	11.9
(1,30)	1:526:A:MET:N	1:526:A:MET:CA	1:526:A:MET:C	1:527:A:LEU:N	14	11.82
(1,8)	1:515:A:ALA:N	1:515:A:ALA:CA	1:515:A:ALA:C	1:516:A:ALA:N	5	11.45
(1,30)	1:526:A:MET:N	1:526:A:MET:CA	1:526:A:MET:C	1:527:A:LEU:N	3	11.42
(1,17)	1:519:A:HIS:C	1:520:A:LYS:N	1:520:A:LYS:CA	1:520:A:LYS:C	10	10.8
(1,11)	1:516:A:ALA:C	1:517:A:ILE:N	1:517:A:ILE:CA	1:517:A:ILE:C	13	10.71
(1,26)	1:524:A:ASN:N	1:524:A:ASN:CA	1:524:A:ASN:C	1:525:A:ASP:N	10	10.46
(1,30)	1:526:A:MET:N	1:526:A:MET:CA	1:526:A:MET:C	1:527:A:LEU:N	4	10.27
(1,74)	1:548:A:ARG:N	1:548:A:ARG:CA	1:548:A:ARG:C	1:549:A:LYS:N	11	10.0
(1,17)	1:519:A:HIS:C	1:520:A:LYS:N	1:520:A:LYS:CA	1:520:A:LYS:C	2	9.85
(1,8)	1:515:A:ALA:N	1:515:A:ALA:CA	1:515:A:ALA:C	1:516:A:ALA:N	2	9.53
(1,80)	1:551:A:ARG:N	1:551:A:ARG:CA	1:551:A:ARG:C	1:552:A:VAL:N	1	9.25
(1,26)	1:524:A:ASN:N	1:524:A:ASN:CA	1:524:A:ASN:C	1:525:A:ASP:N	8	8.9
(1,75)	1:548:A:ARG:C	1:549:A:LYS:N	1:549:A:LYS:CA	1:549:A:LYS:C	1	8.82
(1,17)	1:519:A:HIS:C	1:520:A:LYS:N	1:520:A:LYS:CA	1:520:A:LYS:C	3	8.55
(1,30)	1:526:A:MET:N	1:526:A:MET:CA	1:526:A:MET:C	1:527:A:LEU:N	1	8.46
(1,98)	1:561:A:SER:N	1:561:A:SER:CA	1:561:A:SER:C	1:562:A:THR:N	11	8.06
(1,16)	1:519:A:HIS:N	1:519:A:HIS:CA	1:519:A:HIS:C	1:520:A:LYS:N	15	7.63
(1,110)	1:567:A:GLN:N	1:567:A:GLN:CA	1:567:A:GLN:C	1:568:A:ASN:N	11	7.52
(1,56)	1:539:A:LYS:N	1:539:A:LYS:CA	1:539:A:LYS:C	1:540:A:LYS:N	12	7.46
(1,17)	1:519:A:HIS:C	1:520:A:LYS:N	1:520:A:LYS:CA	1:520:A:LYS:C	1	7.33
(1,16)	1:519:A:HIS:N	1:519:A:HIS:CA	1:519:A:HIS:C	1:520:A:LYS:N	7	7.22
(1,26)	1:524:A:ASN:N	1:524:A:ASN:CA	1:524:A:ASN:C	1:525:A:ASP:N	15	7.13
(1,80)	1:551:A:ARG:N	1:551:A:ARG:CA	1:551:A:ARG:C	1:552:A:VAL:N	2	7.12
(1,81)	1:551:A:ARG:C	1:552:A:VAL:N	1:552:A:VAL:CA	1:552:A:VAL:C	15	7.05
(1,75)	1:548:A:ARG:C	1:549:A:LYS:N	1:549:A:LYS:CA	1:549:A:LYS:C	15	6.67
(1,8)	1:515:A:ALA:N	1:515:A:ALA:CA	1:515:A:ALA:C	1:516:A:ALA:N	15	6.43
(1,10)	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	1:517:A:ILE:N	1	6.26
(1,30)	1:526:A:MET:N	1:526:A:MET:CA	1:526:A:MET:C	1:527:A:LEU:N	11	5.85
(1,90)	1:557:A:ASP:N	1:557:A:ASP:CA	1:557:A:ASP:C	1:558:A:LEU:N	2	5.74
(1,98)	1:561:A:SER:N	1:561:A:SER:CA	1:561:A:SER:C	1:562:A:THR:N	1	5.66
(1,30)	1:526:A:MET:N	1:526:A:MET:CA	1:526:A:MET:C	1:527:A:LEU:N	15	5.64
(1,17)	1:519:A:HIS:C	1:520:A:LYS:N	1:520:A:LYS:CA	1:520:A:LYS:C	13	5.64
(1,30)	1:526:A:MET:N	1:526:A:MET:CA	1:526:A:MET:C	1:527:A:LEU:N	13	5.62
(1,30)	1:526:A:MET:N	1:526:A:MET:CA	1:526:A:MET:C	1:527:A:LEU:N	10	5.51
(1,47)	1:534:A:GLN:C	1:535:A:GLN:N	1:535:A:GLN:CA	1:535:A:GLN:C	4	5.34

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,98)	1:561:A:SER:N	1:561:A:SER:CA	1:561:A:SER:C	1:562:A:THR:N	9	5.1
(1,75)	1:548:A:ARG:C	1:549:A:LYS:N	1:549:A:LYS:CA	1:549:A:LYS:C	9	5.06
(1,8)	1:515:A:ALA:N	1:515:A:ALA:CA	1:515:A:ALA:C	1:516:A:ALA:N	8	4.82
(1,11)	1:516:A:ALA:C	1:517:A:ILE:N	1:517:A:ILE:CA	1:517:A:ILE:C	11	4.65
(1,17)	1:519:A:HIS:C	1:520:A:LYS:N	1:520:A:LYS:CA	1:520:A:LYS:C	5	4.4
(1,94)	1:559:A:LEU:N	1:559:A:LEU:CA	1:559:A:LEU:C	1:560:A:ARG:N	4	4.28
(1,30)	1:526:A:MET:N	1:526:A:MET:CA	1:526:A:MET:C	1:527:A:LEU:N	8	4.26
(1,16)	1:519:A:HIS:N	1:519:A:HIS:CA	1:519:A:HIS:C	1:520:A:LYS:N	2	4.12
(1,30)	1:526:A:MET:N	1:526:A:MET:CA	1:526:A:MET:C	1:527:A:LEU:N	9	4.08
(1,18)	1:520:A:LYS:N	1:520:A:LYS:CA	1:520:A:LYS:C	1:521:A:VAL:N	14	4.05
(1,10)	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	1:517:A:ILE:N	12	4.03
(1,76)	1:549:A:LYS:N	1:549:A:LYS:CA	1:549:A:LYS:C	1:550:A:LEU:N	3	3.8
(1,17)	1:519:A:HIS:C	1:520:A:LYS:N	1:520:A:LYS:CA	1:520:A:LYS:C	11	3.63
(1,16)	1:519:A:HIS:N	1:519:A:HIS:CA	1:519:A:HIS:C	1:520:A:LYS:N	3	3.49
(1,10)	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	1:517:A:ILE:N	3	3.43
(1,56)	1:539:A:LYS:N	1:539:A:LYS:CA	1:539:A:LYS:C	1:540:A:LYS:N	8	3.4
(1,98)	1:561:A:SER:N	1:561:A:SER:CA	1:561:A:SER:C	1:562:A:THR:N	3	3.36
(1,16)	1:519:A:HIS:N	1:519:A:HIS:CA	1:519:A:HIS:C	1:520:A:LYS:N	13	3.24
(1,48)	1:535:A:GLN:N	1:535:A:GLN:CA	1:535:A:GLN:C	1:536:A:LEU:N	11	3.23
(1,30)	1:526:A:MET:N	1:526:A:MET:CA	1:526:A:MET:C	1:527:A:LEU:N	6	3.2
(1,80)	1:551:A:ARG:N	1:551:A:ARG:CA	1:551:A:ARG:C	1:552:A:VAL:N	6	3.03
(1,76)	1:549:A:LYS:N	1:549:A:LYS:CA	1:549:A:LYS:C	1:550:A:LEU:N	11	3.03
(1,98)	1:561:A:SER:N	1:561:A:SER:CA	1:561:A:SER:C	1:562:A:THR:N	8	2.98
(1,48)	1:535:A:GLN:N	1:535:A:GLN:CA	1:535:A:GLN:C	1:536:A:LEU:N	1	2.95
(1,48)	1:535:A:GLN:N	1:535:A:GLN:CA	1:535:A:GLN:C	1:536:A:LEU:N	2	2.89
(1,16)	1:519:A:HIS:N	1:519:A:HIS:CA	1:519:A:HIS:C	1:520:A:LYS:N	10	2.86
(1,9)	1:515:A:ALA:C	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	9	2.83
(1,84)	1:553:A:ILE:N	1:553:A:ILE:CA	1:553:A:ILE:C	1:554:A:VAL:N	13	2.72
(1,48)	1:535:A:GLN:N	1:535:A:GLN:CA	1:535:A:GLN:C	1:536:A:LEU:N	10	2.7
(1,4)	1:513:A:LEU:N	1:513:A:LEU:CA	1:513:A:LEU:C	1:514:A:PHE:N	4	2.62
(1,110)	1:567:A:GLN:N	1:567:A:GLN:CA	1:567:A:GLN:C	1:568:A:ASN:N	10	2.58
(1,5)	1:513:A:LEU:C	1:514:A:PHE:N	1:514:A:PHE:CA	1:514:A:PHE:C	11	2.5
(1,105)	1:564:A:THR:C	1:565:A:THR:N	1:565:A:THR:CA	1:565:A:THR:C	2	2.26
(1,26)	1:524:A:ASN:N	1:524:A:ASN:CA	1:524:A:ASN:C	1:525:A:ASP:N	12	2.24
(1,9)	1:515:A:ALA:C	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	15	2.1
(1,109)	1:566:A:LEU:C	1:567:A:GLN:N	1:567:A:GLN:CA	1:567:A:GLN:C	7	1.87
(1,30)	1:526:A:MET:N	1:526:A:MET:CA	1:526:A:MET:C	1:527:A:LEU:N	12	1.87
(1,47)	1:534:A:GLN:C	1:535:A:GLN:N	1:535:A:GLN:CA	1:535:A:GLN:C	2	1.78
(1,47)	1:534:A:GLN:C	1:535:A:GLN:N	1:535:A:GLN:CA	1:535:A:GLN:C	3	1.78
(1,30)	1:526:A:MET:N	1:526:A:MET:CA	1:526:A:MET:C	1:527:A:LEU:N	7	1.72
(1,87)	1:555:A:GLY:C	1:556:A:ASP:N	1:556:A:ASP:CA	1:556:A:ASP:C	6	1.63
(1,9)	1:515:A:ALA:C	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	4	1.52
(1,9)	1:515:A:ALA:C	1:516:A:ALA:N	1:516:A:ALA:CA	1:516:A:ALA:C	2	1.5
(1,5)	1:513:A:LEU:C	1:514:A:PHE:N	1:514:A:PHE:CA	1:514:A:PHE:C	3	1.4
(1,48)	1:535:A:GLN:N	1:535:A:GLN:CA	1:535:A:GLN:C	1:536:A:LEU:N	4	1.21
(1,89)	1:556:A:ASP:C	1:557:A:ASP:N	1:557:A:ASP:CA	1:557:A:ASP:C	12	1.14
(1,88)	1:556:A:ASP:N	1:556:A:ASP:CA	1:556:A:ASP:C	1:557:A:ASP:N	3	1.03