



Full wwPDB NMR Structure Validation Report ⓘ

May 22, 2024 – 08:11 PM EDT

PDB ID : 8UWU
BMRB ID : 31125
Title : EmrE structure in the proton-bound state (WT/L51I heterodimer)
Authors : Li, J.; Sae Her, A.; Besch, A.; Ramirez, B.; Cames, M.; Banigan, J.R.;
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Deposited on : 2023-11-08

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with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

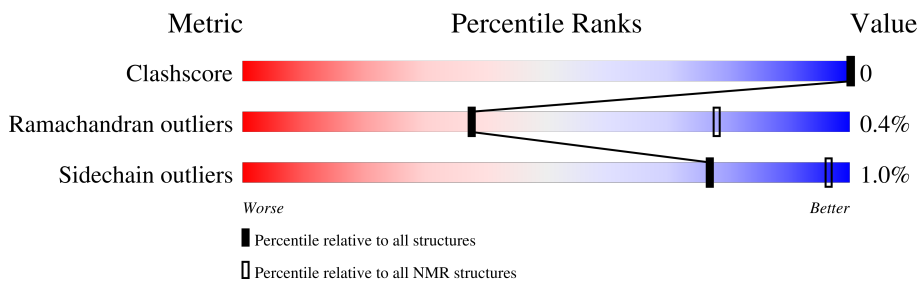
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36.2

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
SOLUTION NMR, SOLID-STATE NMR

The overall completeness of chemical shifts assignment is 30%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	110	91% 6%
2	B	110	95%

2 Ensemble composition and analysis

This entry contains 10 models. Model 3 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *fewest violations*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:3-A:105, B:1-B:110 (213)	0.76	3

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 3 clusters. No single-model clusters were found.

Cluster number	Models
1	2, 3, 4, 7, 9, 10
2	1, 5
3	6, 8

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 3440 atoms, of which 1756 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called SMR family multidrug efflux protein EmrE.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	110	1720	564	878	130	141	7	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	51	ILE	LEU	engineered mutation	UNP A0A2X7QID6

- Molecule 2 is a protein called SMR family multidrug efflux protein EmrE.

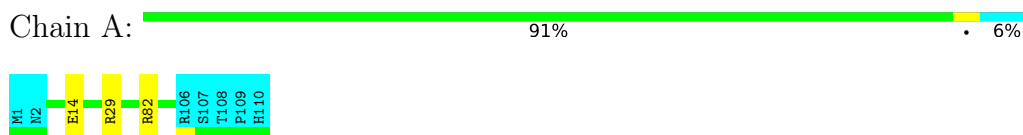
Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
2	B	110	1720	564	878	130	141	7	0

4 Residue-property plots [i](#)

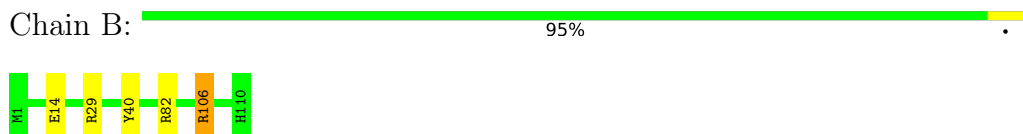
4.1 Average score per residue in the NMR ensemble

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: SMR family multidrug efflux protein EmrE



- Molecule 2: SMR family multidrug efflux protein EmrE

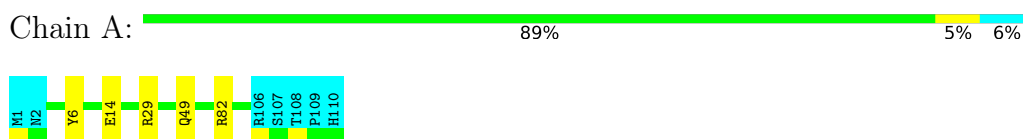


4.2 Scores per residue for each member of the ensemble

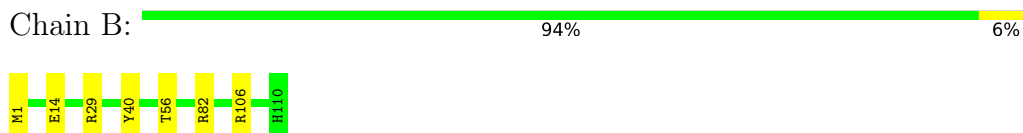
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: SMR family multidrug efflux protein EmrE

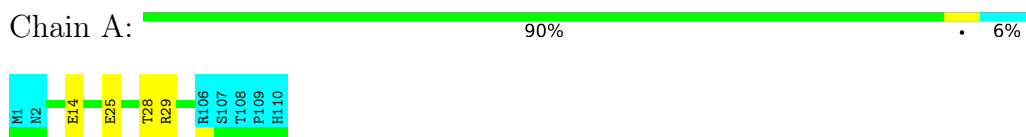


- Molecule 2: SMR family multidrug efflux protein EmrE

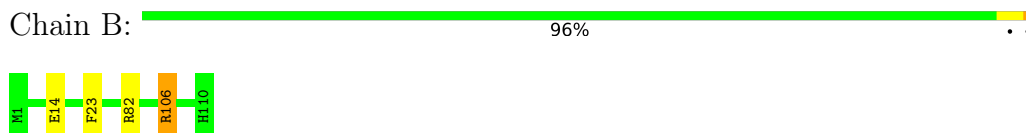


4.2.2 Score per residue for model 2

- Molecule 1: SMR family multidrug efflux protein EmrE

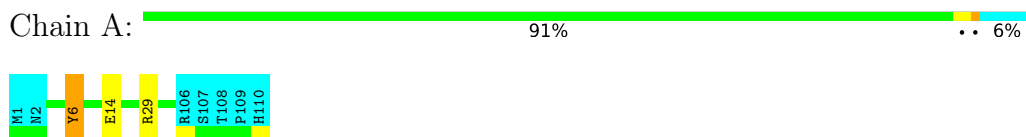


- Molecule 2: SMR family multidrug efflux protein EmrE

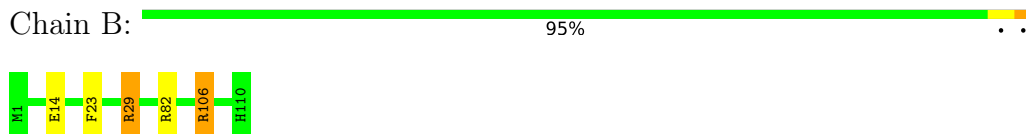


4.2.3 Score per residue for model 3 (medoid)

- Molecule 1: SMR family multidrug efflux protein EmrE

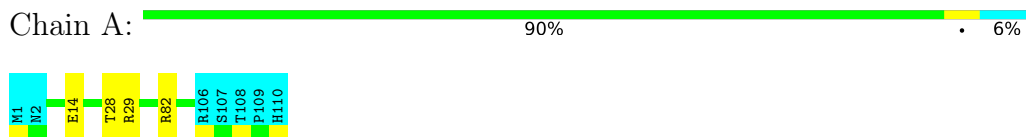


- Molecule 2: SMR family multidrug efflux protein EmrE

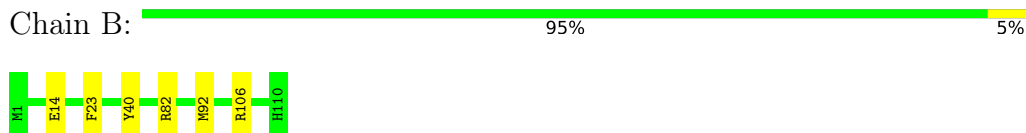


4.2.4 Score per residue for model 4

- Molecule 1: SMR family multidrug efflux protein EmrE

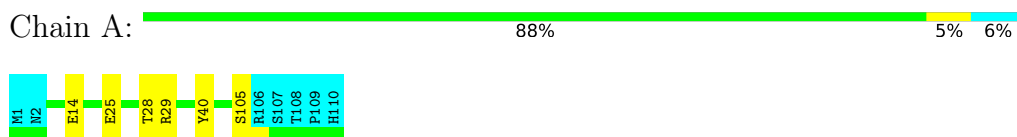


- Molecule 2: SMR family multidrug efflux protein EmrE

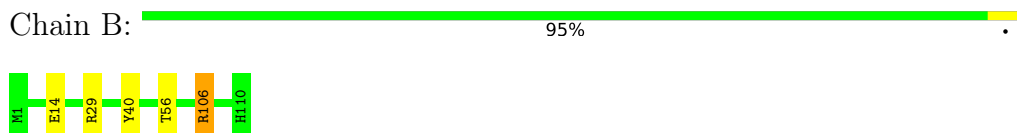


4.2.5 Score per residue for model 5

- Molecule 1: SMR family multidrug efflux protein EmrE

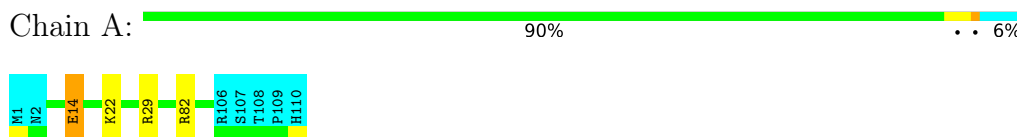


- Molecule 2: SMR family multidrug efflux protein EmrE

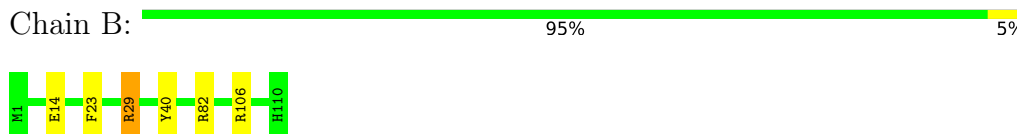


4.2.6 Score per residue for model 6

- Molecule 1: SMR family multidrug efflux protein EmrE

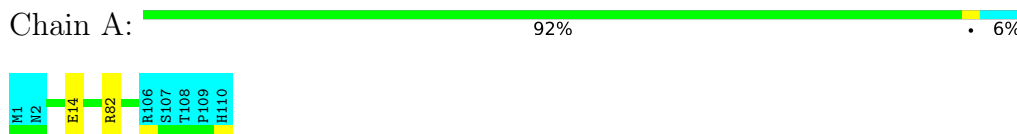


- Molecule 2: SMR family multidrug efflux protein EmrE

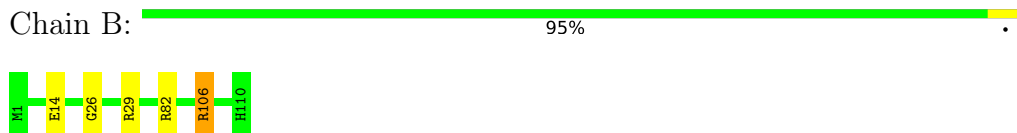


4.2.7 Score per residue for model 7

- Molecule 1: SMR family multidrug efflux protein EmrE

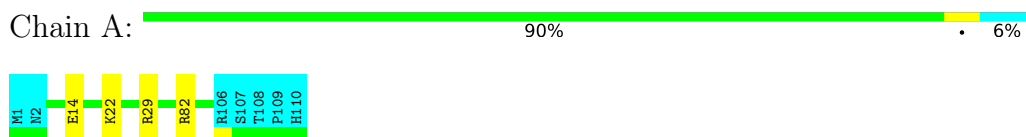


- Molecule 2: SMR family multidrug efflux protein EmrE

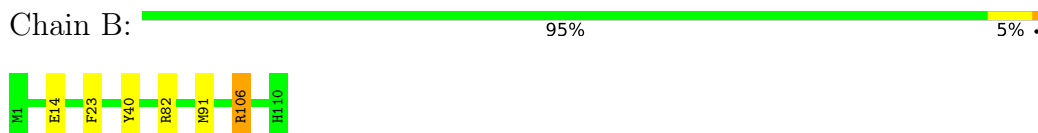


4.2.8 Score per residue for model 8

- Molecule 1: SMR family multidrug efflux protein EmrE

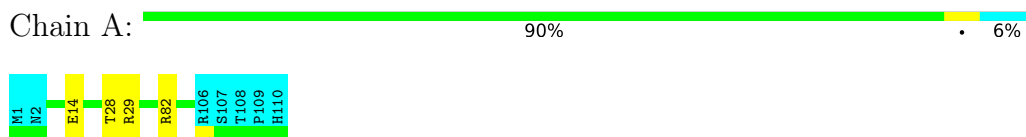


- Molecule 2: SMR family multidrug efflux protein EmrE

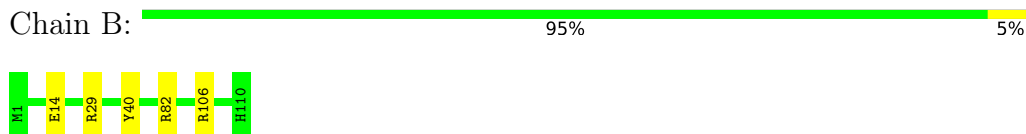


4.2.9 Score per residue for model 9

- Molecule 1: SMR family multidrug efflux protein EmrE

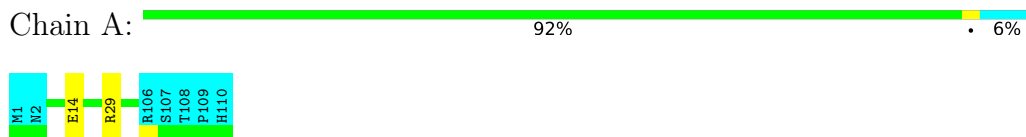


- Molecule 2: SMR family multidrug efflux protein EmrE

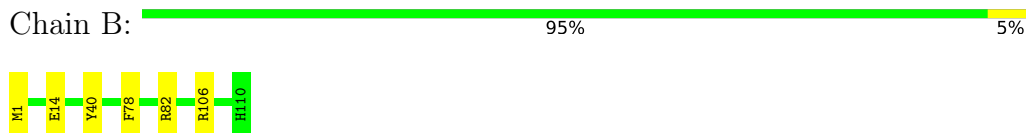


4.2.10 Score per residue for model 10

- Molecule 1: SMR family multidrug efflux protein EmrE



- Molecule 2: SMR family multidrug efflux protein EmrE



5 Refinement protocol and experimental data overview

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

Of the 100000 calculated structures, 10 were deposited, based on the following criterion: *back calculated data agree with experimental NMR data*.

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

Software name	Classification	Version
X-PLOR NIH	structure calculation	
GROMACS	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	907
Number of shifts mapped to atoms	907
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	30%

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

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	0.83±0.01	1±0/806 (0.1± 0.0%)	0.93±0.03	2±1/1102 (0.2± 0.1%)
2	B	0.84±0.01	1±0/865 (0.1± 0.0%)	1.04±0.04	5±1/1180 (0.4± 0.1%)
All	All	0.84	20/16710 (0.1%)	0.99	74/22820 (0.3%)

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
2	B	0.0±0.0	0.4±0.5
All	All	0	5

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	B	14	GLU	CD-OE2	11.74	1.38	1.25	4	10
1	A	14	GLU	CD-OE2	11.44	1.38	1.25	5	10

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	29	ARG	NE-CZ-NH1	12.17	126.39	120.30	8	8
2	B	29	ARG	NE-CZ-NH2	-11.28	114.66	120.30	9	2
2	B	82	ARG	NE-CZ-NH1	10.87	125.74	120.30	10	8
2	B	29	ARG	NE-CZ-NH1	10.35	125.47	120.30	9	6
2	B	106	ARG	NE-CZ-NH1	10.22	125.41	120.30	10	9
1	A	29	ARG	NE-CZ-NH2	-8.73	115.93	120.30	8	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	B	82	ARG	NE-CZ-NH2	-8.70	115.95	120.30	7	5
1	A	82	ARG	NE-CZ-NH2	-7.71	116.45	120.30	7	2
2	B	106	ARG	NE-CZ-NH2	-7.59	116.51	120.30	5	2
1	A	6	TYR	CB-CG-CD2	-7.58	116.45	121.00	1	1
1	A	82	ARG	NE-CZ-NH1	7.15	123.88	120.30	9	5
1	A	6	TYR	CB-CG-CD1	6.90	125.14	121.00	1	1
2	B	23	PHE	CB-CG-CD1	6.78	125.55	120.80	8	5
2	B	23	PHE	CB-CG-CD2	-6.33	116.37	120.80	8	5
1	A	40	TYR	CB-CG-CD2	5.94	124.56	121.00	5	1
2	B	40	TYR	CB-CG-CD1	-5.94	117.44	121.00	1	5
2	B	40	TYR	CB-CG-CD2	5.75	124.45	121.00	1	5
1	A	40	TYR	CB-CG-CD1	-5.66	117.60	121.00	5	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)
2	B	29	ARG	Sidechain	2
2	B	106	ARG	Sidechain	2
1	A	6	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
All	All	16260	17000	16980	-

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

There are no clashes.

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	103/110 (94%)	100±1 (97±1%)	2±1 (2±1%)	1±1 (1±1%)	29	74
2	B	108/110 (98%)	105±1 (97±1%)	3±1 (3±1%)	0±0 (0±0%)	50	82
All	All	2110/2200 (96%)	2048 (97%)	54 (3%)	8 (0%)	38	78

All 4 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	28	THR	4
1	A	25	GLU	2
2	B	26	GLY	1
2	B	78	PHE	1

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	82/89 (92%)	81±1 (99±1%)	1±1 (1±1%)	79	97
2	B	89/89 (100%)	88±1 (99±1%)	1±1 (1±1%)	74	96
All	All	1710/1780 (96%)	1693 (99%)	17 (1%)	77	96

All 11 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)
2	B	106	ARG	4
2	B	1	MET	2
2	B	56	THR	2

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Mol	Chain	Res	Type	Models (Total)
1	A	22	LYS	2
1	A	49	GLN	1
1	A	6	TYR	1
2	B	92	MET	1
1	A	105	SER	1
1	A	14	GLU	1
1	A	82	ARG	1
2	B	91	MET	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [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 30% for the well-defined parts and 30% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chemical_shifts_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	907
Number of shifts mapped to atoms	907
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

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
$^{13}\text{C}_\alpha$	208	-0.97 ± 0.08	Should be checked
$^{13}\text{C}_\beta$	137	0.15 ± 0.10	None needed (< 0.5 ppm)
$^{13}\text{C}'$	189	-0.53 ± 0.10	Should be applied
^{15}N	204	0.57 ± 0.20	Should be applied

7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 30%, i.e. 881 atoms were assigned a chemical shift out of a possible 2934. 0 out of 41 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	745/1071 (70%)	163/441 (37%)	388/426 (91%)	194/204 (95%)
Sidechain	136/1570 (9%)	0/1064 (0%)	136/482 (28%)	0/24 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	0/293 (0%)	0/142 (0%)	0/142 (0%)	0/9 (0%)
Overall	881/2934 (30%)	163/1647 (10%)	524/1050 (50%)	194/237 (82%)

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 30%, i.e. 900 atoms were assigned a chemical shift out of a possible 3030. 0 out of 41 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	763/1104 (69%)	167/454 (37%)	397/440 (90%)	199/210 (95%)
Sidechain	137/1626 (8%)	0/1100 (0%)	137/498 (28%)	0/28 (0%)
Aromatic	0/300 (0%)	0/146 (0%)	0/144 (0%)	0/10 (0%)
Overall	900/3030 (30%)	167/1700 (10%)	534/1082 (49%)	199/248 (80%)

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

7.1.4 Statistically unusual chemical shifts [i](#)

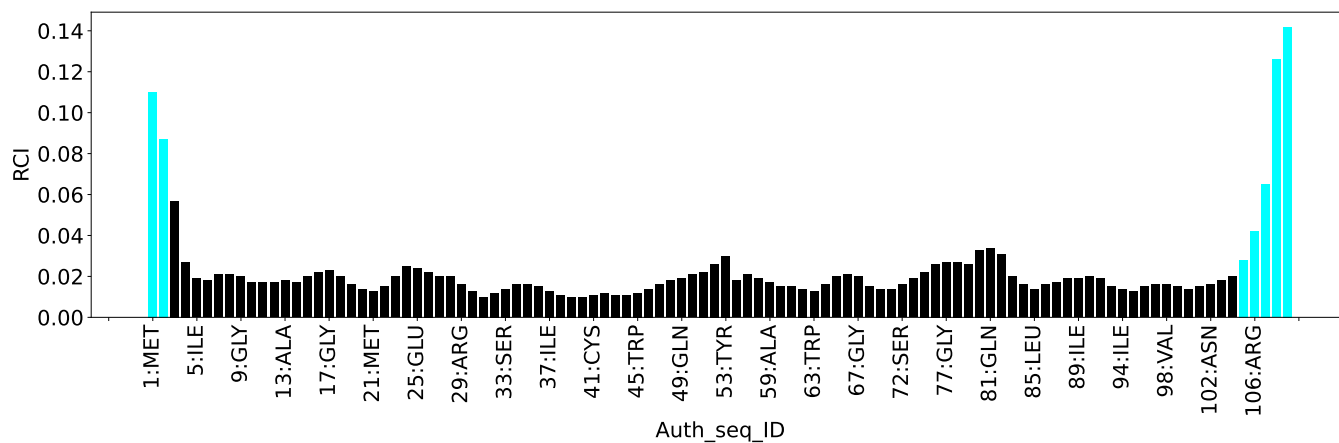
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	B	55	PRO	N	103.60	108.67 – 162.11	-6.0

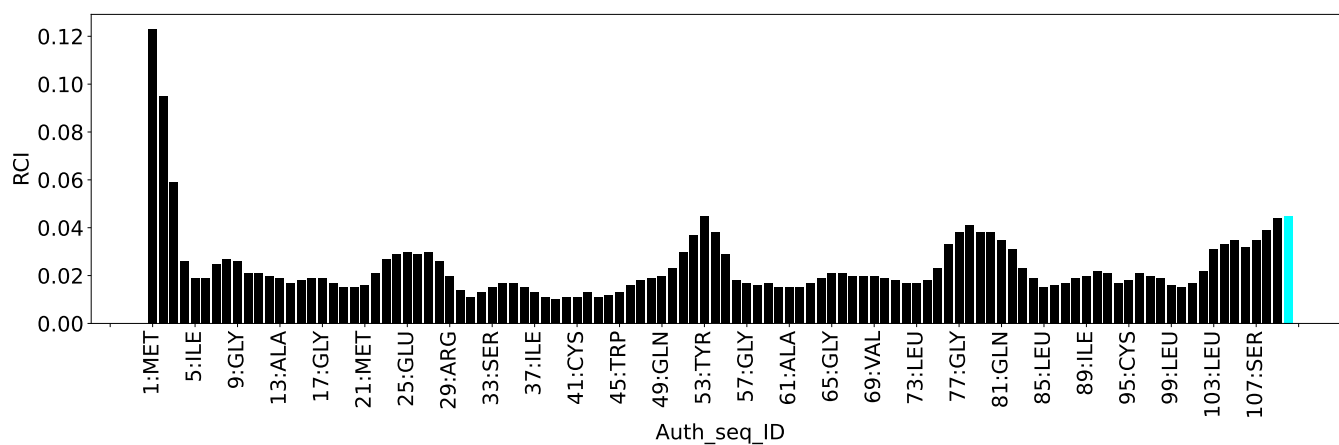
7.1.5 Random Coil Index (RCI) plots [i](#)

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:



Random coil index (RCI) for chain B:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	1164
Intra-residue ($ i-j =0$)	1
Sequential ($ i-j =1$)	26
Medium range ($ i-j >1$ and $ i-j <5$)	51
Long range ($ i-j \geq 5$)	477
Inter-chain	393
Hydrogen bond restraints	216
Disulfide bond restraints	0
Total dihedral-angle restraints	360
Number of unmapped restraints	0
Number of restraints per residue	6.9
Number of long range restraints per residue ¹	2.2

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	7.0	0.2
0.2-0.5 (Medium)	15.8	0.5
>0.5 (Large)	57.4	8.55

8.2.2 Average number of dihedral-angle violations per model

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)	10.3	9.78
10.0-20.0 (Medium)	5.4	19.98
>20.0 (Large)	8.6	158.98

9 Distance violation analysis i

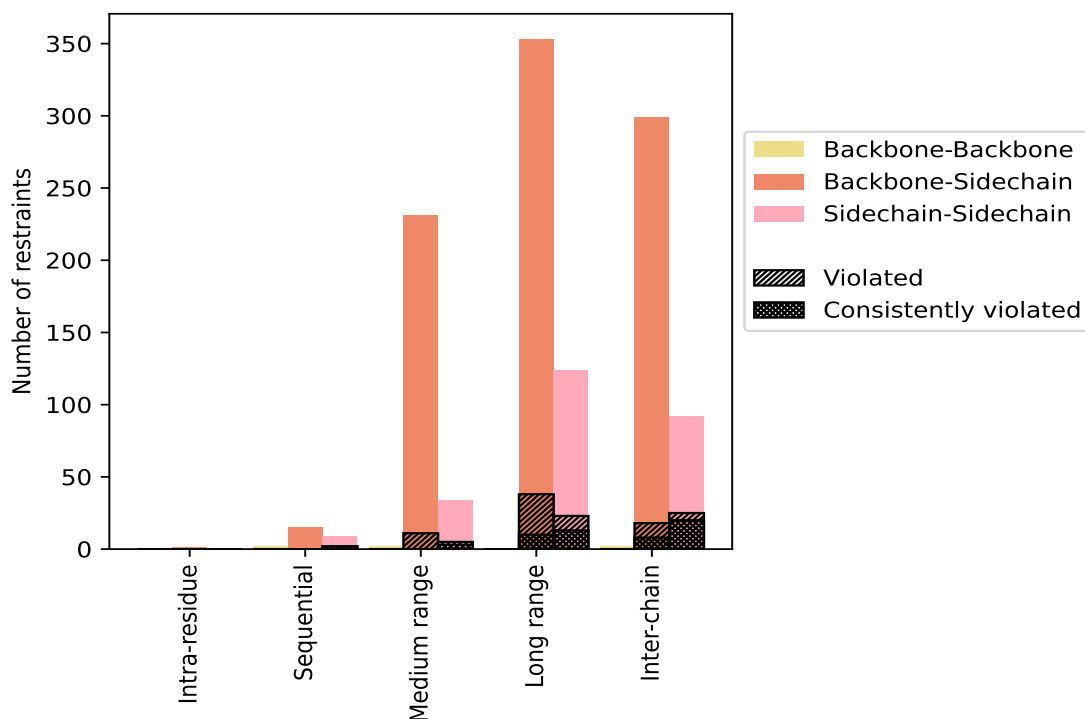
9.1 Summary of distance violations i

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	1	0.1	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	1	0.1	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
Sequential ($i-j =1$)	26	2.2	2	7.7	0.2	2	7.7	0.2
Backbone-Backbone	2	0.2	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	15	1.3	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	9	0.8	2	22.2	0.2	2	22.2	0.2
Medium range ($i-j >1$ & $i-j <5$)	51	4.4	5	9.8	0.4	3	5.9	0.3
Backbone-Backbone	2	0.2	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	15	1.3	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	34	2.9	5	14.7	0.4	3	8.8	0.3
Long range ($i-j \geq 5$)	477	41.0	61	12.8	5.2	23	4.8	2.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	353	30.3	38	10.8	3.3	10	2.8	0.9
Sidechain-Sidechain	124	10.7	23	18.5	2.0	13	10.5	1.1
Inter-chain	393	33.8	43	10.9	3.7	28	7.1	2.4
Backbone-Backbone	2	0.2	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	299	25.7	18	6.0	1.5	8	2.7	0.7
Sidechain-Sidechain	92	7.9	25	27.2	2.1	20	21.7	1.7
Hydrogen bond	216	18.6	11	5.1	0.9	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1164	100.0	122	10.5	10.5	56	4.8	4.8
Backbone-Backbone	6	0.5	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	899	77.2	67	7.5	5.8	18	2.0	1.5
Sidechain-Sidechain	259	22.3	55	21.2	4.7	38	14.7	3.3

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

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



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

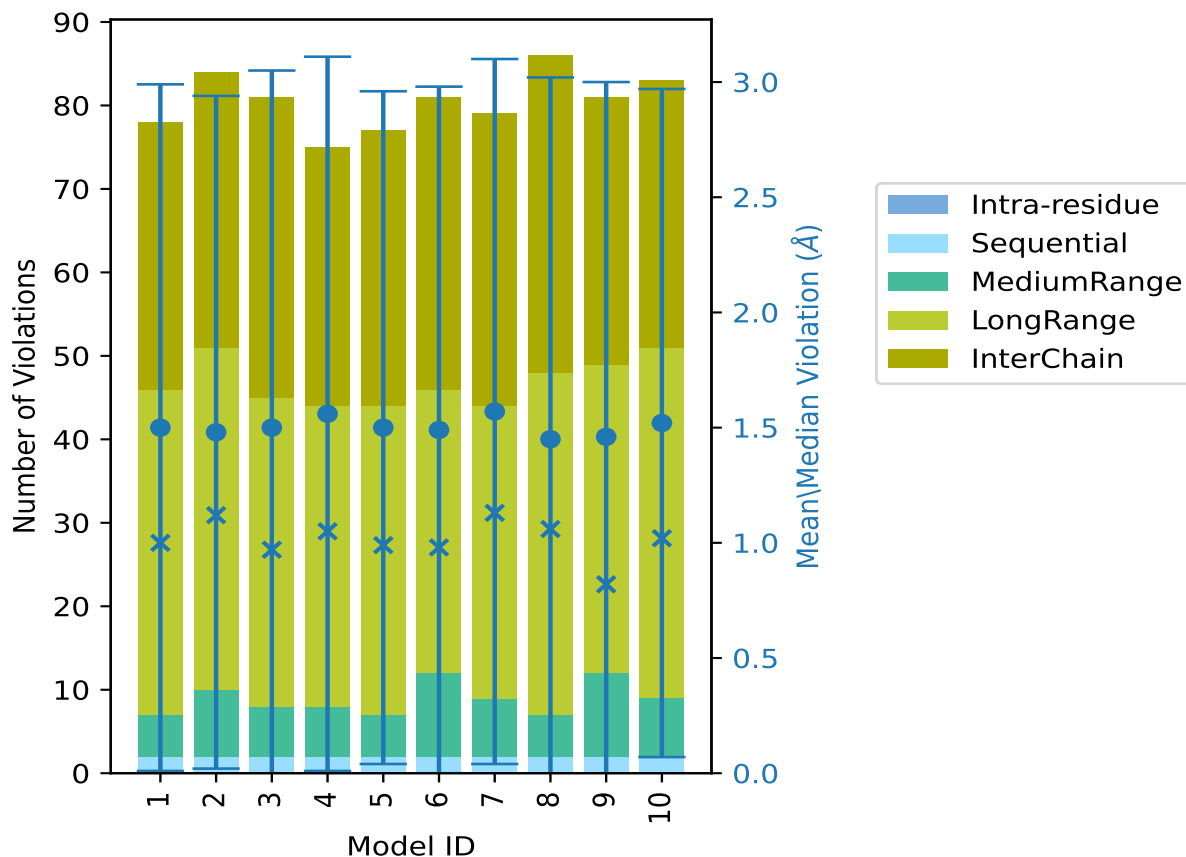
9.2 Distance violation statistics for each model [i](#)

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	0	2	5	39	32	78	1.5	7.81	1.49	1.0
2	0	2	8	41	33	84	1.48	7.9	1.46	1.12
3	0	2	6	37	36	81	1.5	8.26	1.55	0.97
4	0	2	6	36	31	75	1.56	7.86	1.55	1.05
5	0	2	5	37	33	77	1.5	7.68	1.46	0.99
6	0	2	10	34	35	81	1.49	7.88	1.49	0.98
7	0	2	7	35	35	79	1.57	7.98	1.53	1.13
8	0	2	5	41	38	86	1.45	8.55	1.57	1.06
9	0	2	10	37	32	81	1.46	8.12	1.54	0.82
10	0	2	7	42	32	83	1.52	7.39	1.45	1.02

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 [i](#)

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, 837(IR:1, SQ:24, MR:46, LR:416, IC:350) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	0	14	2	16	1	10.0
0	0	0	3	3	6	2	20.0
0	0	0	2	5	7	3	30.0

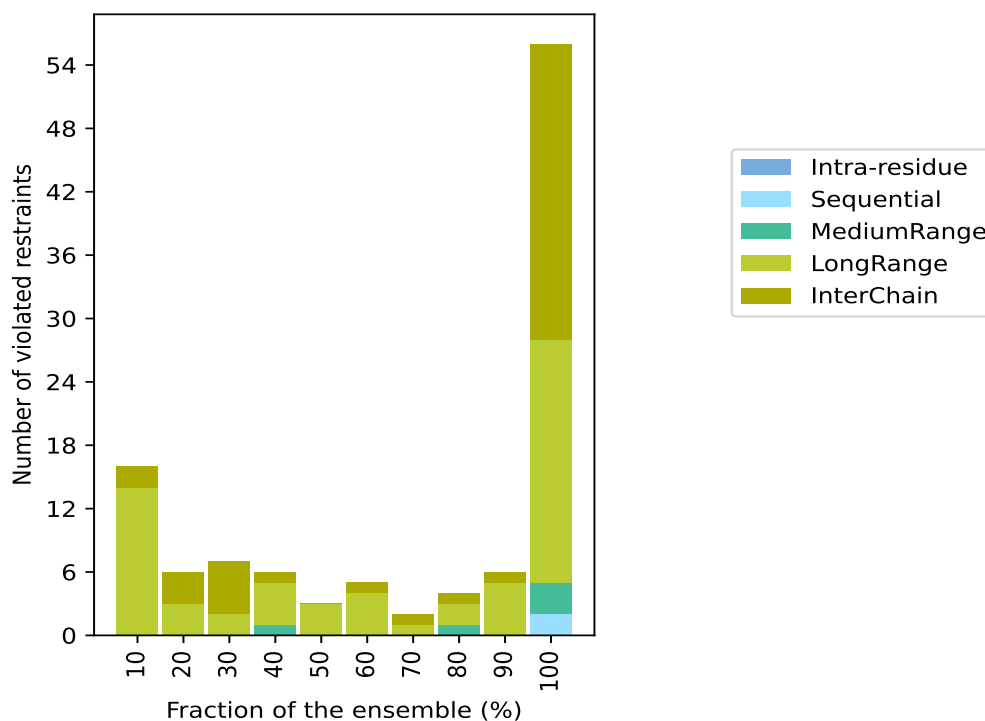
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	1	4	1	6	4	40.0
0	0	0	3	0	3	5	50.0
0	0	0	4	1	5	6	60.0
0	0	0	1	1	2	7	70.0
0	0	1	2	1	4	8	80.0
0	0	0	5	1	6	9	90.0
0	2	3	23	28	56	10	100.0

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](#)

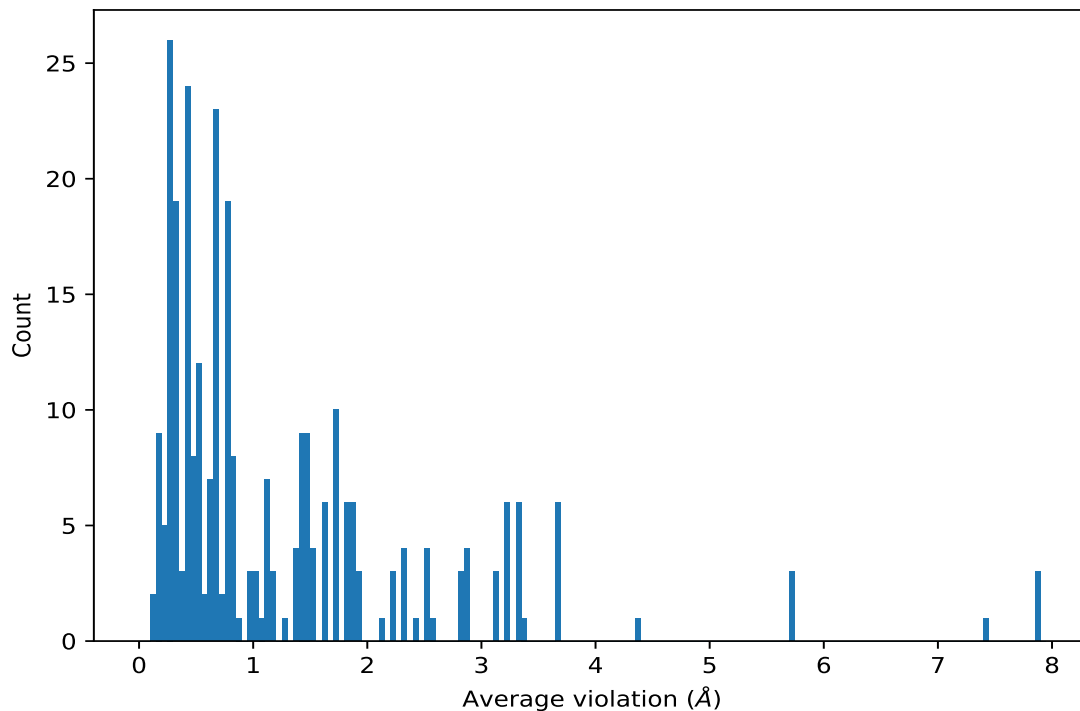


9.4 Most violated distance restraints in the ensemble [i](#)

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)
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD11	10	7.89	0.37	7.89
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD12	10	7.89	0.37	7.89
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD13	10	7.89	0.37	7.89
(1,11)	1:26:A:GLY:CA	1:31:A:TRP:CE3	10	7.4	0.29	7.35
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD11	10	5.73	0.34	5.68
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD12	10	5.73	0.34	5.68
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD13	10	5.73	0.34	5.68
(6,532)	2:41:B:CYS:SG	1:38:A:ILE:H	10	4.39	0.44	4.49
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG11	10	3.66	0.31	3.7
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG12	10	3.66	0.31	3.7
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG13	10	3.66	0.31	3.7
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG21	10	3.66	0.31	3.7
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG22	10	3.66	0.31	3.7
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG23	10	3.66	0.31	3.7
(6,24)	1:5:A:ILE:CG1	1:50:A:THR:H	10	3.35	0.31	3.4

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD11	10	3.31	0.48	3.44
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD12	10	3.31	0.48	3.44
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD13	10	3.31	0.48	3.44
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD21	10	3.31	0.48	3.44
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD22	10	3.31	0.48	3.44
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD23	10	3.31	0.48	3.44
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG11	10	3.2	0.33	3.28
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG12	10	3.2	0.33	3.28
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG13	10	3.2	0.33	3.28
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG21	10	3.2	0.33	3.28
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG22	10	3.2	0.33	3.28
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG23	10	3.2	0.33	3.28
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD11	10	3.11	0.18	3.08
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD12	10	3.11	0.18	3.08
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD13	10	3.11	0.18	3.08
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD11	10	2.9	0.17	2.88
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD12	10	2.9	0.17	2.88
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD13	10	2.9	0.17	2.88
(6,55)	1:95:A:CYS:SG	1:57:A:GLY:H	10	2.86	0.59	3.06
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD11	10	2.84	1.19	3.48
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD12	10	2.84	1.19	3.48
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD13	10	2.84	1.19	3.48
(6,59)	1:95:A:CYS:SG	1:62:A:ILE:H	10	2.59	0.63	2.69
(6,270)	2:5:B:ILE:CG1	1:13:A:ALA:H	10	2.53	0.34	2.41
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD11	10	2.5	0.37	2.51
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD12	10	2.5	0.37	2.51
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD13	10	2.5	0.37	2.51
(6,569)	1:41:A:CYS:SG	2:26:B:GLY:H	10	2.43	0.74	2.42
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD11	10	2.33	0.48	2.24
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD12	10	2.33	0.48	2.24
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD13	10	2.33	0.48	2.24
(6,144)	2:39:B:CYS:SG	2:24:B:SER:H	10	2.33	0.42	2.4
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD11	10	2.22	0.14	2.2
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD12	10	2.22	0.14	2.2
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD13	10	2.22	0.14	2.2
(6,353)	2:39:B:CYS:SG	1:40:A:TYR:H	10	2.11	0.25	2.22
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD11	10	1.94	0.13	1.98
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD12	10	1.94	0.13	1.98
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD13	10	1.94	0.13	1.98
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD11	10	1.87	0.27	1.84
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD12	10	1.87	0.27	1.84
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD13	10	1.87	0.27	1.84

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD21	10	1.87	0.27	1.84
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD22	10	1.87	0.27	1.84
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD23	10	1.87	0.27	1.84
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD11	10	1.81	0.36	1.85
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD12	10	1.81	0.36	1.85
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD13	10	1.81	0.36	1.85
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD21	10	1.81	0.36	1.85
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD22	10	1.81	0.36	1.85
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD23	10	1.81	0.36	1.85
(6,315)	2:5:B:ILE:CG1	1:83:A:LEU:H	10	1.74	0.7	2.02
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD11	10	1.73	0.27	1.85
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD12	10	1.73	0.27	1.85
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD13	10	1.73	0.27	1.85
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD11	10	1.72	0.47	1.77
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD12	10	1.72	0.47	1.77
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD13	10	1.72	0.47	1.77
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD11	10	1.71	0.19	1.7
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD12	10	1.71	0.19	1.7
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD13	10	1.71	0.19	1.7
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD11	10	1.64	0.5	1.76
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD12	10	1.64	0.5	1.76
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD13	10	1.64	0.5	1.76
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD21	10	1.64	0.5	1.76
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD22	10	1.64	0.5	1.76
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD23	10	1.64	0.5	1.76
(6,71)	1:95:A:CYS:SG	1:106:A:ARG:H	10	1.5	0.48	1.65
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD11	10	1.5	0.61	1.42
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD12	10	1.5	0.61	1.42
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD13	10	1.5	0.61	1.42
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD11	10	1.46	0.44	1.57
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD12	10	1.46	0.44	1.57
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD13	10	1.46	0.44	1.57
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD11	10	1.46	0.44	1.57
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD12	10	1.46	0.44	1.57
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD13	10	1.46	0.44	1.57
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD11	10	1.46	0.44	1.57
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD12	10	1.46	0.44	1.57
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD13	10	1.46	0.44	1.57
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD11	10	1.43	0.22	1.4
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD12	10	1.43	0.22	1.4
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD13	10	1.43	0.22	1.4
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD11	10	1.42	0.33	1.28

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD12	10	1.42	0.33	1.28
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD13	10	1.42	0.33	1.28
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD21	10	1.42	0.33	1.28
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD22	10	1.42	0.33	1.28
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD23	10	1.42	0.33	1.28
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD11	10	1.38	0.78	1.34
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD12	10	1.38	0.78	1.34
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD13	10	1.38	0.78	1.34
(6,129)	2:39:B:CYS:SG	2:4:B:TYR:H	10	1.36	0.27	1.29
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD11	10	1.17	0.34	1.25
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD12	10	1.17	0.34	1.25
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD13	10	1.17	0.34	1.25
(6,357)	2:39:B:CYS:SG	1:48:A:ALA:H	10	1.12	0.19	1.02
(1,50)	2:60:B:TYR:CB	2:63:B:TRP:CD1	10	1.08	0.05	1.08
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD11	10	1.02	0.32	0.98
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD12	10	1.02	0.32	0.98
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD13	10	1.02	0.32	0.98
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD11	10	0.97	0.32	0.94
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD12	10	0.97	0.32	0.94
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD13	10	0.97	0.32	0.94
(1,69)	2:56:B:THR:CB	2:60:B:TYR:CD1	10	0.89	0.19	0.89
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD11	10	0.81	0.28	0.87
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD12	10	0.81	0.28	0.87
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD13	10	0.81	0.28	0.87
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD21	10	0.81	0.28	0.87
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD22	10	0.81	0.28	0.87
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD23	10	0.81	0.28	0.87
(1,51)	2:60:B:TYR:CB	2:63:B:TRP:CE2	10	0.8	0.11	0.84
(6,354)	2:39:B:CYS:SG	1:42:A:ALA:H	10	0.79	0.29	0.88
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD11	10	0.76	0.66	0.45
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD12	10	0.76	0.66	0.45
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD13	10	0.76	0.66	0.45
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD21	10	0.76	0.66	0.45
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD22	10	0.76	0.66	0.45
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD23	10	0.76	0.66	0.45
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD11	10	0.76	0.66	0.45
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD12	10	0.76	0.66	0.45
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD13	10	0.76	0.66	0.45
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD21	10	0.76	0.66	0.45
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD22	10	0.76	0.66	0.45
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD23	10	0.76	0.66	0.45
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD11	10	0.76	0.66	0.45

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD12	10	0.76	0.66	0.45
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD13	10	0.76	0.66	0.45
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD21	10	0.76	0.66	0.45
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD22	10	0.76	0.66	0.45
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD23	10	0.76	0.66	0.45
(6,355)	2:39:B:CYS:SG	1:43:A:SER:H	10	0.74	0.27	0.83
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD11	10	0.7	0.32	0.68
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD12	10	0.7	0.32	0.68
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD13	10	0.7	0.32	0.68
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD21	10	0.7	0.32	0.68
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD22	10	0.7	0.32	0.68
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD23	10	0.7	0.32	0.68
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD11	10	0.67	0.42	0.58
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD12	10	0.67	0.42	0.58
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD13	10	0.67	0.42	0.58
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD11	10	0.67	0.42	0.58
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD12	10	0.67	0.42	0.58
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD13	10	0.67	0.42	0.58
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD11	10	0.67	0.42	0.58
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD12	10	0.67	0.42	0.58
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD13	10	0.67	0.42	0.58
(6,625)	1:41:A:CYS:SG	1:31:A:TRP:H	10	0.65	0.19	0.7
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD11	10	0.65	0.28	0.65
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD12	10	0.65	0.28	0.65
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD13	10	0.65	0.28	0.65
(6,66)	1:95:A:CYS:SG	1:87:A:ALA:H	10	0.59	0.14	0.56
(1,21)	1:11:A:ILE:CG2	1:63:A:TRP:CE3	10	0.57	0.17	0.52
(1,1)	1:63:A:TRP:HZ3	2:63:B:TRP:HH2	10	0.47	0.2	0.49
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD11	10	0.44	0.13	0.48
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD12	10	0.44	0.13	0.48
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD13	10	0.44	0.13	0.48
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD11	10	0.44	0.13	0.48
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD12	10	0.44	0.13	0.48
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD13	10	0.44	0.13	0.48
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD11	10	0.44	0.13	0.48
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD12	10	0.44	0.13	0.48
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD13	10	0.44	0.13	0.48
(1,55)	2:63:B:TRP:CD1	2:64:B:SER:CB	10	0.37	0.13	0.42
(6,476)	2:41:B:CYS:SG	2:47:B:LEU:H	10	0.26	0.1	0.27
(6,125)	2:5:B:ILE:CG1	2:108:B:THR:H	9	1.27	0.75	1.14
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG11	9	1.12	0.42	1.19
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG12	9	1.12	0.42	1.19

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG13	9	1.12	0.42	1.19
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG21	9	1.12	0.42	1.19
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG22	9	1.12	0.42	1.19
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG23	9	1.12	0.42	1.19
(6,351)	2:39:B:CYS:SG	1:38:A:ILE:H	9	0.63	0.26	0.68
(6,638)	1:41:A:CYS:SG	1:71:A:ILE:H	9	0.61	0.16	0.6
(1,63)	2:14:B:GLU:CA	2:63:B:TRP:CE3	9	0.47	0.15	0.57
(1,12)	1:27:A:PHE:CD2	1:36:A:THR:CA	9	0.44	0.18	0.45
(6,124)	2:5:B:ILE:CG1	2:106:B:ARG:H	8	0.81	0.79	0.5
(6,146)	2:39:B:CYS:SG	2:26:B:GLY:H	8	0.74	0.39	0.65
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD11	8	0.47	0.25	0.4
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD12	8	0.47	0.25	0.4
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD13	8	0.47	0.25	0.4
(1,57)	2:60:B:TYR:CZ	2:63:B:TRP:CD1	8	0.24	0.07	0.24
(6,94)	2:5:B:ILE:CG1	2:53:B:TYR:H	7	0.65	0.38	0.62
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD11	7	0.51	0.35	0.41
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD12	7	0.51	0.35	0.41
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD13	7	0.51	0.35	0.41
(3,175)	2:65:B:GLY:O	2:69:B:VAL:H	7	0.29	0.09	0.3
(3,176)	2:69:B:VAL:N	2:65:B:GLY:O	7	0.26	0.08	0.24
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD11	6	0.46	0.43	0.26
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD12	6	0.46	0.43	0.26
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD13	6	0.46	0.43	0.26
(6,241)	2:95:B:CYS:SG	2:77:B:GLY:H	6	0.44	0.18	0.43
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD11	6	0.4	0.34	0.29
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD12	6	0.4	0.34	0.29
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD13	6	0.4	0.34	0.29
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD11	6	0.4	0.34	0.29
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD12	6	0.4	0.34	0.29
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD13	6	0.4	0.34	0.29
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD11	6	0.4	0.34	0.29
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD12	6	0.4	0.34	0.29
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD13	6	0.4	0.34	0.29
(6,520)	2:41:B:CYS:SG	1:11:A:ILE:H	6	0.28	0.13	0.29
(6,149)	2:39:B:CYS:SG	2:29:B:ARG:H	6	0.25	0.1	0.26
(6,49)	1:95:A:CYS:SG	1:22:A:LYS:H	5	0.32	0.11	0.28
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD11	5	0.32	0.18	0.26
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD12	5	0.32	0.18	0.26
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD13	5	0.32	0.18	0.26
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD21	5	0.32	0.18	0.26
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD22	5	0.32	0.18	0.26
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD23	5	0.32	0.18	0.26

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD11	5	0.32	0.18	0.26
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD12	5	0.32	0.18	0.26
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD13	5	0.32	0.18	0.26
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD21	5	0.32	0.18	0.26
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD22	5	0.32	0.18	0.26
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD23	5	0.32	0.18	0.26
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD11	5	0.32	0.18	0.26
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD12	5	0.32	0.18	0.26
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD13	5	0.32	0.18	0.26
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD21	5	0.32	0.18	0.26
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD22	5	0.32	0.18	0.26
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD23	5	0.32	0.18	0.26
(6,621)	1:41:A:CYS:SG	1:26:A:GLY:H	5	0.27	0.12	0.24
(6,658)	1:5:A:ILE:CG1	1:58:A:ILE:HD11	4	0.66	0.23	0.75
(6,658)	1:5:A:ILE:CG1	1:58:A:ILE:HD12	4	0.66	0.23	0.75
(6,658)	1:5:A:ILE:CG1	1:58:A:ILE:HD13	4	0.66	0.23	0.75
(6,62)	1:95:A:CYS:SG	1:77:A:GLY:H	4	0.64	0.56	0.37
(6,570)	1:41:A:CYS:SG	2:28:B:THR:H	4	0.62	0.24	0.72
(6,673)	2:5:B:ILE:CG1	2:71:B:ILE:HD11	4	0.44	0.24	0.44
(6,673)	2:5:B:ILE:CG1	2:71:B:ILE:HD12	4	0.44	0.24	0.44
(6,673)	2:5:B:ILE:CG1	2:71:B:ILE:HD13	4	0.44	0.24	0.44
(6,58)	1:95:A:CYS:SG	1:61:A:ALA:H	4	0.29	0.2	0.22
(1,58)	2:60:B:TYR:CB	2:63:B:TRP:CD1	4	0.13	0.01	0.14
(6,609)	1:41:A:CYS:SG	2:110:B:HIS:H	3	0.42	0.13	0.46
(6,470)	2:41:B:CYS:SG	2:27:B:PHE:H	3	0.36	0.2	0.35
(6,533)	2:41:B:CYS:SG	1:39:A:CYS:H	3	0.29	0.09	0.35
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD11	3	0.26	0.14	0.16
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD12	3	0.26	0.14	0.16
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD13	3	0.26	0.14	0.16
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD21	3	0.26	0.14	0.16
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD22	3	0.26	0.14	0.16
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD23	3	0.26	0.14	0.16
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD11	3	0.26	0.14	0.16
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD12	3	0.26	0.14	0.16
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD13	3	0.26	0.14	0.16
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD21	3	0.26	0.14	0.16
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD22	3	0.26	0.14	0.16
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD23	3	0.26	0.14	0.16
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD11	3	0.26	0.14	0.16
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD12	3	0.26	0.14	0.16
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD13	3	0.26	0.14	0.16
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD21	3	0.26	0.14	0.16

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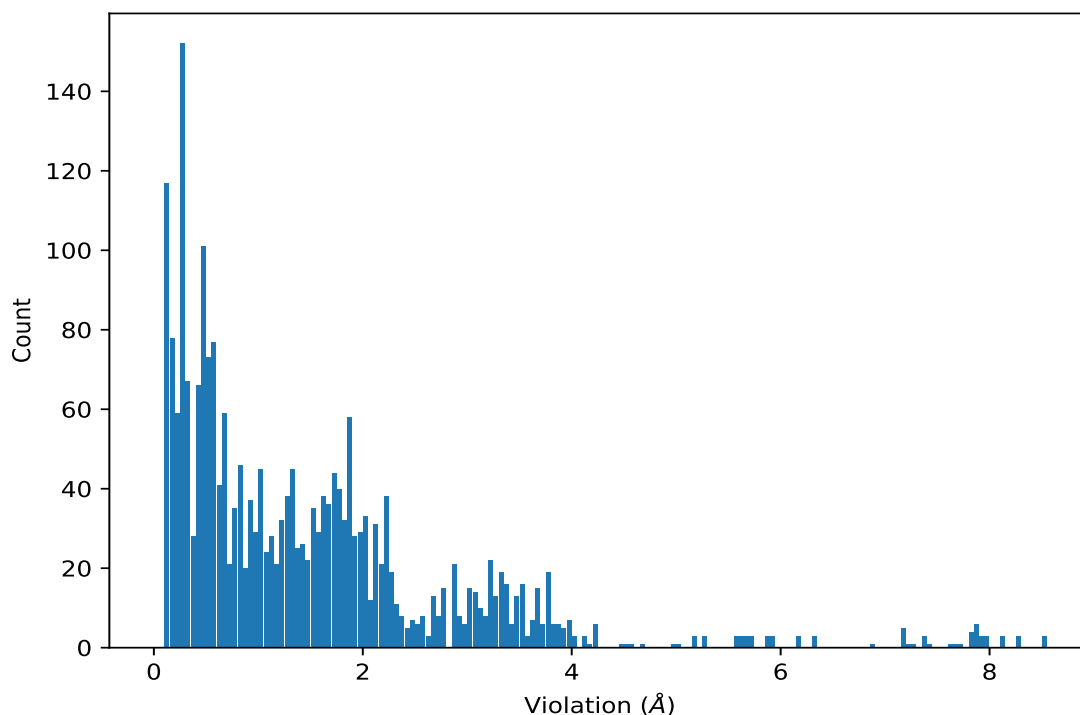
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD22	3	0.26	0.14	0.16
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD23	3	0.26	0.14	0.16
(1,18)	1:11:A:ILE:CB	1:63:A:TRP:CE3	3	0.22	0.07	0.23
(6,453)	2:95:B:CYS:SG	1:104:A:LEU:H	3	0.22	0.05	0.23
(3,67)	1:65:A:GLY:O	1:69:A:VAL:H	3	0.17	0.05	0.16
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG11	3	0.16	0.05	0.13
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG12	3	0.16	0.05	0.13
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG13	3	0.16	0.05	0.13
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG21	3	0.16	0.05	0.13
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG22	3	0.16	0.05	0.13
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG23	3	0.16	0.05	0.13
(6,815)	2:95:B:CYS:SG	1:58:A:ILE:HD11	2	0.61	0.4	0.61
(6,815)	2:95:B:CYS:SG	1:58:A:ILE:HD12	2	0.61	0.4	0.61
(6,815)	2:95:B:CYS:SG	1:58:A:ILE:HD13	2	0.61	0.4	0.61
(5,41)	2:83:B:LEU:HD21	2:88:B:ILE:HD11	2	0.54	0.02	0.54
(5,41)	2:83:B:LEU:HD21	2:88:B:ILE:HD12	2	0.54	0.02	0.54
(5,41)	2:83:B:LEU:HD21	2:88:B:ILE:HD13	2	0.54	0.02	0.54
(5,41)	2:83:B:LEU:HD22	2:88:B:ILE:HD11	2	0.54	0.02	0.54
(5,41)	2:83:B:LEU:HD22	2:88:B:ILE:HD12	2	0.54	0.02	0.54
(5,41)	2:83:B:LEU:HD22	2:88:B:ILE:HD13	2	0.54	0.02	0.54
(5,41)	2:83:B:LEU:HD23	2:88:B:ILE:HD11	2	0.54	0.02	0.54
(5,41)	2:83:B:LEU:HD23	2:88:B:ILE:HD12	2	0.54	0.02	0.54
(5,41)	2:83:B:LEU:HD23	2:88:B:ILE:HD13	2	0.54	0.02	0.54
(6,363)	2:39:B:CYS:SG	1:60:A:TYR:H	2	0.38	0.05	0.38
(1,8)	1:94:A:ILE:CB	2:97:B:GLY:CA	2	0.22	0.02	0.22
(3,191)	2:73:B:LEU:O	2:77:B:GLY:H	2	0.22	0.04	0.22
(6,169)	2:39:B:CYS:SG	2:64:B:SER:H	2	0.18	0.07	0.18
(3,68)	1:69:A:VAL:N	1:65:A:GLY:O	2	0.16	0.04	0.16
(6,464)	2:41:B:CYS:SG	2:13:B:ALA:H	2	0.15	0.01	0.15

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)
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD11	8	8.55
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD12	8	8.55
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD13	8	8.55
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD11	3	8.26
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD12	3	8.26
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD13	3	8.26
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD11	9	8.12
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD12	9	8.12
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD13	9	8.12
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD11	7	7.98
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD12	7	7.98
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD13	7	7.98
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD11	2	7.9
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD12	2	7.9
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD13	2	7.9
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD11	6	7.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD12	6	7.88
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD13	6	7.88
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD11	4	7.86
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD12	4	7.86
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD13	4	7.86
(1,11)	1:26:A:GLY:CA	1:31:A:TRP:CE3	8	7.85
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD11	1	7.81
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD12	1	7.81
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD13	1	7.81
(1,11)	1:26:A:GLY:CA	1:31:A:TRP:CE3	9	7.72
(1,11)	1:26:A:GLY:CA	1:31:A:TRP:CE3	5	7.68
(1,11)	1:26:A:GLY:CA	1:31:A:TRP:CE3	4	7.61
(1,11)	1:26:A:GLY:CA	1:31:A:TRP:CE3	6	7.41
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD11	10	7.39
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD12	10	7.39
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD13	10	7.39
(1,11)	1:26:A:GLY:CA	1:31:A:TRP:CE3	10	7.28
(1,11)	1:26:A:GLY:CA	1:31:A:TRP:CE3	1	7.22
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD11	5	7.19
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD12	5	7.19
(6,745)	2:41:B:CYS:SG	1:37:A:ILE:HD13	5	7.19
(1,11)	1:26:A:GLY:CA	1:31:A:TRP:CE3	7	7.19
(1,11)	1:26:A:GLY:CA	1:31:A:TRP:CE3	3	7.17
(1,11)	1:26:A:GLY:CA	1:31:A:TRP:CE3	2	6.89
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD11	8	6.31
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD12	8	6.31
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD13	8	6.31
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD11	3	6.16
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD12	3	6.16
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD13	3	6.16
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD11	9	5.94
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD12	9	5.94
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD13	9	5.94
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD11	7	5.87
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD12	7	5.87
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD13	7	5.87
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD11	6	5.72
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD12	6	5.72
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD13	6	5.72
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD11	4	5.65
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD12	4	5.65
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD13	4	5.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD11	2	5.62
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD12	2	5.62
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD13	2	5.62
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD11	1	5.57
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD12	1	5.57
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD13	1	5.57
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD11	10	5.25
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD12	10	5.25
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD13	10	5.25
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD11	5	5.19
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD12	5	5.19
(6,731)	2:39:B:CYS:SG	1:37:A:ILE:HD13	5	5.19
(6,532)	2:41:B:CYS:SG	1:38:A:ILE:H	8	5.02
(6,532)	2:41:B:CYS:SG	1:38:A:ILE:H	3	4.97
(6,532)	2:41:B:CYS:SG	1:38:A:ILE:H	2	4.67
(6,532)	2:41:B:CYS:SG	1:38:A:ILE:H	6	4.55
(6,532)	2:41:B:CYS:SG	1:38:A:ILE:H	7	4.53
(6,532)	2:41:B:CYS:SG	1:38:A:ILE:H	9	4.45
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG11	8	4.2
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG12	8	4.2
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG13	8	4.2
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG21	8	4.2
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG22	8	4.2
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG23	8	4.2
(6,532)	2:41:B:CYS:SG	1:38:A:ILE:H	1	4.19
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD11	5	4.14
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD12	5	4.14
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD13	5	4.14
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD11	1	4.03
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD12	1	4.03
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD13	1	4.03
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG11	9	3.98
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG12	9	3.98
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG13	9	3.98
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG21	9	3.98
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG22	9	3.98
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG23	9	3.98
(6,532)	2:41:B:CYS:SG	1:38:A:ILE:H	10	3.98
(6,24)	1:5:A:ILE:CG1	1:50:A:THR:H	8	3.94
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD11	4	3.92
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD12	4	3.92
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD13	4	3.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,532)	2:41:B:CYS:SG	1:38:A:ILE:H	4	3.92
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG11	3	3.87
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG12	3	3.87
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG13	3	3.87
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG21	3	3.87
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG22	3	3.87
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG23	3	3.87
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG11	7	3.83
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG12	7	3.83
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG13	7	3.83
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG21	7	3.83
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG22	7	3.83
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG23	7	3.83
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG11	8	3.8
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG12	8	3.8
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG13	8	3.8
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG21	8	3.8
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG22	8	3.8
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG23	8	3.8
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG11	6	3.8
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG12	6	3.8
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG13	6	3.8
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG21	6	3.8
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG22	6	3.8
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG23	6	3.8
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD11	6	3.75
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD12	6	3.75
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD13	6	3.75
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD21	6	3.75
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD22	6	3.75
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD23	6	3.75
(6,55)	1:95:A:CYS:SG	1:57:A:GLY:H	4	3.75
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD11	3	3.72
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD12	3	3.72
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD13	3	3.72
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD21	3	3.72
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD22	3	3.72
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD23	3	3.72
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD11	8	3.69
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD12	8	3.69
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD13	8	3.69
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD21	8	3.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD22	8	3.69
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD23	8	3.69
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD11	2	3.68
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD12	2	3.68
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD13	2	3.68
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD21	2	3.68
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD22	2	3.68
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD23	2	3.68
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD11	2	3.66
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD12	2	3.66
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD13	2	3.66
(6,59)	1:95:A:CYS:SG	1:62:A:ILE:H	4	3.64
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG11	2	3.61
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG12	2	3.61
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG13	2	3.61
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG21	2	3.61
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG22	2	3.61
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG23	2	3.61
(6,532)	2:41:B:CYS:SG	1:38:A:ILE:H	5	3.58
(6,24)	1:5:A:ILE:CG1	1:50:A:THR:H	9	3.58
(6,24)	1:5:A:ILE:CG1	1:50:A:THR:H	6	3.56
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD11	10	3.53
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD12	10	3.53
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD13	10	3.53
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG11	9	3.52
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG12	9	3.52
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG13	9	3.52
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG21	9	3.52
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG22	9	3.52
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG23	9	3.52
(6,24)	1:5:A:ILE:CG1	1:50:A:THR:H	7	3.51
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG11	4	3.5
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG12	4	3.5
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG13	4	3.5
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG21	4	3.5
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG22	4	3.5
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG23	4	3.5
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD11	10	3.49
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD12	10	3.49
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD13	10	3.49
(6,24)	1:5:A:ILE:CG1	1:50:A:THR:H	4	3.48
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD11	7	3.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD12	7	3.47
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD13	7	3.47
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD11	1	3.47
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD12	1	3.47
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD13	1	3.47
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD21	1	3.47
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD22	1	3.47
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD23	1	3.47
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD11	7	3.42
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD12	7	3.42
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD13	7	3.42
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD21	7	3.42
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD22	7	3.42
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD23	7	3.42
(6,569)	1:41:A:CYS:SG	2:26:B:GLY:H	3	3.4
(6,569)	1:41:A:CYS:SG	2:26:B:GLY:H	10	3.39
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG11	6	3.38
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG12	6	3.38
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG13	6	3.38
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG21	6	3.38
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG22	6	3.38
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG23	6	3.38
(6,55)	1:95:A:CYS:SG	1:57:A:GLY:H	7	3.38
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG11	3	3.37
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG12	3	3.37
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG13	3	3.37
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG21	3	3.37
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG22	3	3.37
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG23	3	3.37
(6,55)	1:95:A:CYS:SG	1:57:A:GLY:H	1	3.35
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG11	10	3.33
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG12	10	3.33
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG13	10	3.33
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG21	10	3.33
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG22	10	3.33
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG23	10	3.33
(6,24)	1:5:A:ILE:CG1	1:50:A:THR:H	5	3.33
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG11	5	3.32
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG12	5	3.32
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG13	5	3.32
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG21	5	3.32
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG22	5	3.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG23	5	3.32
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG11	7	3.31
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG12	7	3.31
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG13	7	3.31
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG21	7	3.31
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG22	7	3.31
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG23	7	3.31
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD11	1	3.27
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD12	1	3.27
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD13	1	3.27
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD11	9	3.26
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD12	9	3.26
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD13	9	3.26
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD21	9	3.26
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD22	9	3.26
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD23	9	3.26
(6,270)	2:5:B:ILE:CG1	1:13:A:ALA:H	10	3.26
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD11	8	3.25
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD12	8	3.25
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD13	8	3.25
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG11	2	3.24
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG12	2	3.24
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG13	2	3.24
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG21	2	3.24
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG22	2	3.24
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG23	2	3.24
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD11	6	3.24
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD12	6	3.24
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD13	6	3.24
(6,569)	1:41:A:CYS:SG	2:26:B:GLY:H	9	3.22
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD11	4	3.21
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD12	4	3.21
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD13	4	3.21
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD21	4	3.21
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD22	4	3.21
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD23	4	3.21
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD11	8	3.2
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD12	8	3.2
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD13	8	3.2
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD11	7	3.2
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD12	7	3.2
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD13	7	3.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG11	1	3.19
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG12	1	3.19
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG13	1	3.19
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG21	1	3.19
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG22	1	3.19
(6,737)	2:39:B:CYS:SG	1:34:A:VAL:HG23	1	3.19
(6,24)	1:5:A:ILE:CG1	1:50:A:THR:H	10	3.18
(6,59)	1:95:A:CYS:SG	1:62:A:ILE:H	7	3.16
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD11	10	3.14
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD12	10	3.14
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD13	10	3.14
(6,55)	1:95:A:CYS:SG	1:57:A:GLY:H	2	3.14
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD11	3	3.1
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD12	3	3.1
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD13	3	3.1
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD11	7	3.1
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD12	7	3.1
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD13	7	3.1
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD11	10	3.09
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD12	10	3.09
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD13	10	3.09
(6,24)	1:5:A:ILE:CG1	1:50:A:THR:H	1	3.09
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD11	4	3.07
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD12	4	3.07
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD13	4	3.07
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG11	4	3.06
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG12	4	3.06
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG13	4	3.06
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG21	4	3.06
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG22	4	3.06
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG23	4	3.06
(6,55)	1:95:A:CYS:SG	1:57:A:GLY:H	5	3.06
(6,59)	1:95:A:CYS:SG	1:62:A:ILE:H	3	3.05
(6,55)	1:95:A:CYS:SG	1:57:A:GLY:H	3	3.05
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD11	7	3.03
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD12	7	3.03
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD13	7	3.03
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD11	10	3.03
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD12	10	3.03
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD13	10	3.03
(6,24)	1:5:A:ILE:CG1	1:50:A:THR:H	2	3.02
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD11	6	3.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD12	6	3.01
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD13	6	3.01
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD11	5	3.0
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD12	5	3.0
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD13	5	3.0
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD11	2	2.99
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD12	2	2.99
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD13	2	2.99
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD11	6	2.97
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD12	6	2.97
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD13	6	2.97
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD11	2	2.94
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD12	2	2.94
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD13	2	2.94
(6,144)	2:39:B:CYS:SG	2:24:B:SER:H	9	2.94
(6,59)	1:95:A:CYS:SG	1:62:A:ILE:H	1	2.93
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD11	9	2.91
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD12	9	2.91
(6,679)	2:5:B:ILE:CG1	2:94:B:ILE:HD13	9	2.91
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD11	5	2.9
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD12	5	2.9
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD13	5	2.9
(6,270)	2:5:B:ILE:CG1	1:13:A:ALA:H	4	2.89
(6,59)	1:95:A:CYS:SG	1:62:A:ILE:H	5	2.89
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG11	10	2.88
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG12	10	2.88
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG13	10	2.88
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG21	10	2.88
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG22	10	2.88
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG23	10	2.88
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD11	4	2.87
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD12	4	2.87
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD13	4	2.87
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD11	9	2.87
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD12	9	2.87
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD13	9	2.87
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD11	10	2.87
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD12	10	2.87
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD13	10	2.87
(6,24)	1:5:A:ILE:CG1	1:50:A:THR:H	3	2.85
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG11	1	2.78
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG12	1	2.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG13	1	2.78
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG21	1	2.78
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG22	1	2.78
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG23	1	2.78
(6,315)	2:5:B:ILE:CG1	1:83:A:LEU:H	6	2.78
(6,270)	2:5:B:ILE:CG1	1:13:A:ALA:H	8	2.78
(6,125)	2:5:B:ILE:CG1	2:108:B:THR:H	10	2.78
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD11	3	2.75
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD12	3	2.75
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD13	3	2.75
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD11	4	2.75
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD12	4	2.75
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD13	4	2.75
(6,569)	1:41:A:CYS:SG	2:26:B:GLY:H	5	2.71
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD11	10	2.7
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD12	10	2.7
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD13	10	2.7
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD21	10	2.7
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD22	10	2.7
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD23	10	2.7
(6,144)	2:39:B:CYS:SG	2:24:B:SER:H	5	2.7
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG11	5	2.69
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG12	5	2.69
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG13	5	2.69
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG21	5	2.69
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG22	5	2.69
(6,751)	2:41:B:CYS:SG	1:34:A:VAL:HG23	5	2.69
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD11	3	2.69
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD12	3	2.69
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD13	3	2.69
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD11	1	2.68
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD12	1	2.68
(6,710)	2:39:B:CYS:SG	2:68:B:ILE:HD13	1	2.68
(6,144)	2:39:B:CYS:SG	2:24:B:SER:H	3	2.67
(6,144)	2:39:B:CYS:SG	2:24:B:SER:H	1	2.62
(6,569)	1:41:A:CYS:SG	2:26:B:GLY:H	4	2.61
(6,55)	1:95:A:CYS:SG	1:57:A:GLY:H	10	2.61
(6,124)	2:5:B:ILE:CG1	2:106:B:ARG:H	10	2.59
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD11	2	2.58
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD12	2	2.58
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD13	2	2.58
(6,270)	2:5:B:ILE:CG1	1:13:A:ALA:H	2	2.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD11	4	2.56
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD12	4	2.56
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD13	4	2.56
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD11	7	2.53
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD12	7	2.53
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD13	7	2.53
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD11	5	2.51
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD12	5	2.51
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD13	5	2.51
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD11	9	2.49
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD12	9	2.49
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD13	9	2.49
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD11	4	2.49
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD12	4	2.49
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD13	4	2.49
(6,59)	1:95:A:CYS:SG	1:62:A:ILE:H	2	2.49
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD11	7	2.41
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD12	7	2.41
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD13	7	2.41
(6,270)	2:5:B:ILE:CG1	1:13:A:ALA:H	7	2.41
(6,270)	2:5:B:ILE:CG1	1:13:A:ALA:H	9	2.41
(6,144)	2:39:B:CYS:SG	2:24:B:SER:H	7	2.4
(6,270)	2:5:B:ILE:CG1	1:13:A:ALA:H	6	2.39
(6,144)	2:39:B:CYS:SG	2:24:B:SER:H	2	2.39
(6,353)	2:39:B:CYS:SG	1:40:A:TYR:H	2	2.38
(6,353)	2:39:B:CYS:SG	1:40:A:TYR:H	8	2.37
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD11	8	2.35
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD12	8	2.35
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD13	8	2.35
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD11	3	2.33
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD12	3	2.33
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD13	3	2.33
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD21	3	2.33
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD22	3	2.33
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD23	3	2.33
(6,55)	1:95:A:CYS:SG	1:57:A:GLY:H	9	2.32
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD11	8	2.31
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD12	8	2.31
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD13	8	2.31
(6,270)	2:5:B:ILE:CG1	1:13:A:ALA:H	3	2.31
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD11	1	2.3
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD12	1	2.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD13	1	2.3
(6,315)	2:5:B:ILE:CG1	1:83:A:LEU:H	1	2.3
(6,59)	1:95:A:CYS:SG	1:62:A:ILE:H	9	2.29
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD11	2	2.28
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD12	2	2.28
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD13	2	2.28
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD21	2	2.28
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD22	2	2.28
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD23	2	2.28
(6,144)	2:39:B:CYS:SG	2:24:B:SER:H	4	2.28
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD11	3	2.27
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD12	3	2.27
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD13	3	2.27
(6,353)	2:39:B:CYS:SG	1:40:A:TYR:H	1	2.27
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD11	6	2.26
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD12	6	2.26
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD13	6	2.26
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD11	1	2.24
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD12	1	2.24
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD13	1	2.24
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD11	10	2.24
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD12	10	2.24
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD13	10	2.24
(6,353)	2:39:B:CYS:SG	1:40:A:TYR:H	6	2.24
(6,55)	1:95:A:CYS:SG	1:57:A:GLY:H	6	2.24
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD11	8	2.23
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD12	8	2.23
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD13	8	2.23
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD21	8	2.23
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD22	8	2.23
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD23	8	2.23
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD11	6	2.23
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD12	6	2.23
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD13	6	2.23
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD11	8	2.22
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD12	8	2.22
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD13	8	2.22
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD21	8	2.22
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD22	8	2.22
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD23	8	2.22
(6,569)	1:41:A:CYS:SG	2:26:B:GLY:H	7	2.22
(6,353)	2:39:B:CYS:SG	1:40:A:TYR:H	3	2.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,353)	2:39:B:CYS:SG	1:40:A:TYR:H	5	2.22
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD11	6	2.21
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD12	6	2.21
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD13	6	2.21
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD21	6	2.21
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD22	6	2.21
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD23	6	2.21
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD11	5	2.2
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD12	5	2.2
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD13	5	2.2
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD21	5	2.2
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD22	5	2.2
(6,750)	2:41:B:CYS:SG	1:7:A:LEU:HD23	5	2.2
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD11	5	2.19
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD12	5	2.19
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD13	5	2.19
(6,315)	2:5:B:ILE:CG1	1:83:A:LEU:H	2	2.19
(6,270)	2:5:B:ILE:CG1	1:13:A:ALA:H	1	2.19
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD11	5	2.18
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD12	5	2.18
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD13	5	2.18
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD11	2	2.17
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD12	2	2.17
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD13	2	2.17
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD21	2	2.17
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD22	2	2.17
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD23	2	2.17
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD11	1	2.17
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD12	1	2.17
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD13	1	2.17
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD11	9	2.16
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD12	9	2.16
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD13	9	2.16
(6,315)	2:5:B:ILE:CG1	1:83:A:LEU:H	9	2.15
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD11	6	2.14
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD12	6	2.14
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD13	6	2.14
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD11	3	2.13
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD12	3	2.13
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD13	3	2.13
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD21	3	2.13
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD22	3	2.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD23	3	2.13
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD11	10	2.13
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD12	10	2.13
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD13	10	2.13
(6,71)	1:95:A:CYS:SG	1:106:A:ARG:H	1	2.1
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD11	8	2.1
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD12	8	2.1
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD13	8	2.1
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD21	8	2.1
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD22	8	2.1
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD23	8	2.1
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD11	8	2.1
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD12	8	2.1
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD13	8	2.1
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD21	8	2.1
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD22	8	2.1
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD23	8	2.1
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD11	8	2.1
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD12	8	2.1
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD13	8	2.1
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD21	8	2.1
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD22	8	2.1
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD23	8	2.1
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD11	8	2.09
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD12	8	2.09
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD13	8	2.09
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD11	10	2.08
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD12	10	2.08
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD13	10	2.08
(6,59)	1:95:A:CYS:SG	1:62:A:ILE:H	10	2.08
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD11	2	2.07
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD12	2	2.07
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD13	2	2.07
(6,270)	2:5:B:ILE:CG1	1:13:A:ALA:H	5	2.07
(6,353)	2:39:B:CYS:SG	1:40:A:TYR:H	9	2.06
(6,353)	2:39:B:CYS:SG	1:40:A:TYR:H	7	2.05
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD11	9	2.04
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD12	9	2.04
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD13	9	2.04
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD11	2	2.04
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD12	2	2.04
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD13	2	2.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD11	7	2.04
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD12	7	2.04
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD13	7	2.04
(6,315)	2:5:B:ILE:CG1	1:83:A:LEU:H	5	2.04
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD11	1	2.02
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD12	1	2.02
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD13	1	2.02
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD21	1	2.02
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD22	1	2.02
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD23	1	2.02
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD11	8	2.02
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD12	8	2.02
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD13	8	2.02
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD11	8	2.02
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD12	8	2.02
(6,693)	2:5:B:ILE:CG1	1:68:A:ILE:HD13	8	2.02
(6,569)	1:41:A:CYS:SG	2:26:B:GLY:H	2	2.02
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD11	4	2.01
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD12	4	2.01
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD13	4	2.01
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD11	10	2.01
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD12	10	2.01
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD13	10	2.01
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD11	9	2.0
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD12	9	2.0
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD13	9	2.0
(6,315)	2:5:B:ILE:CG1	1:83:A:LEU:H	3	1.99
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD11	4	1.98
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD12	4	1.98
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD13	4	1.98
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD11	5	1.97
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD12	5	1.97
(6,744)	2:41:B:CYS:SG	1:68:A:ILE:HD13	5	1.97
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD11	2	1.97
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD12	2	1.97
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD13	2	1.97
(6,144)	2:39:B:CYS:SG	2:24:B:SER:H	10	1.97
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD11	1	1.96
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD12	1	1.96
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD13	1	1.96
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD21	1	1.96
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD22	1	1.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD23	1	1.96
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD11	6	1.96
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD12	6	1.96
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD13	6	1.96
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD21	6	1.96
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD22	6	1.96
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD23	6	1.96
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD11	9	1.96
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD12	9	1.96
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD13	9	1.96
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD11	2	1.96
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD12	2	1.96
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD13	2	1.96
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD11	3	1.95
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD12	3	1.95
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD13	3	1.95
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD11	1	1.94
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD12	1	1.94
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD13	1	1.94
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD21	1	1.94
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD22	1	1.94
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD23	1	1.94
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD11	7	1.93
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD12	7	1.93
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD13	7	1.93
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD11	6	1.92
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD12	6	1.92
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD13	6	1.92
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD11	6	1.92
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD12	6	1.92
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD13	6	1.92
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD11	6	1.92
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD12	6	1.92
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD13	6	1.92
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD11	5	1.91
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD12	5	1.91
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD13	5	1.91
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD21	5	1.91
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD22	5	1.91
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD23	5	1.91
(6,71)	1:95:A:CYS:SG	1:106:A:ARG:H	5	1.91
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD11	9	1.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD12	9	1.9
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD13	9	1.9
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD21	9	1.9
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD22	9	1.9
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD23	9	1.9
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD11	7	1.9
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD12	7	1.9
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD13	7	1.9
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD11	2	1.9
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD12	2	1.9
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD13	2	1.9
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD11	5	1.89
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD12	5	1.89
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD13	5	1.89
(6,569)	1:41:A:CYS:SG	2:26:B:GLY:H	6	1.89
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD11	3	1.88
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD12	3	1.88
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD13	3	1.88
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD11	6	1.88
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD12	6	1.88
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD13	6	1.88
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD21	6	1.88
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD22	6	1.88
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD23	6	1.88
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD11	6	1.88
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD12	6	1.88
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD13	6	1.88
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD21	6	1.88
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD22	6	1.88
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD23	6	1.88
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD11	6	1.88
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD12	6	1.88
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD13	6	1.88
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD21	6	1.88
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD22	6	1.88
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD23	6	1.88
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD11	8	1.87
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD12	8	1.87
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD13	8	1.87
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD21	8	1.87
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD22	8	1.87
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD23	8	1.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD11	3	1.87
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD12	3	1.87
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD13	3	1.87
(6,59)	1:95:A:CYS:SG	1:62:A:ILE:H	6	1.87
(6,129)	2:39:B:CYS:SG	2:4:B:TYR:H	5	1.86
(6,71)	1:95:A:CYS:SG	1:106:A:ARG:H	9	1.86
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD11	9	1.85
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD12	9	1.85
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD13	9	1.85
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD21	9	1.85
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD22	9	1.85
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD23	9	1.85
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD11	9	1.85
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD12	9	1.85
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD13	9	1.85
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD11	7	1.84
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD12	7	1.84
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD13	7	1.84
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD21	7	1.84
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD22	7	1.84
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD23	7	1.84
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD11	5	1.84
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD12	5	1.84
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD13	5	1.84
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD11	2	1.83
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD12	2	1.83
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD13	2	1.83
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD21	2	1.83
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD22	2	1.83
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD23	2	1.83
(6,125)	2:5:B:ILE:CG1	2:108:B:THR:H	7	1.83
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD11	10	1.82
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD12	10	1.82
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD13	10	1.82
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD21	10	1.82
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD22	10	1.82
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD23	10	1.82
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD11	7	1.82
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD12	7	1.82
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD13	7	1.82
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD11	6	1.82
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD12	6	1.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD13	6	1.82
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD11	3	1.81
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD12	3	1.81
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD13	3	1.81
(6,569)	1:41:A:CYS:SG	2:26:B:GLY:H	8	1.81
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG11	9	1.79
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG12	9	1.79
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG13	9	1.79
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG21	9	1.79
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG22	9	1.79
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG23	9	1.79
(6,71)	1:95:A:CYS:SG	1:106:A:ARG:H	3	1.79
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD11	4	1.78
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD12	4	1.78
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD13	4	1.78
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD21	4	1.78
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD22	4	1.78
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD23	4	1.78
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD11	7	1.78
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD12	7	1.78
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD13	7	1.78
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD11	9	1.78
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD12	9	1.78
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD13	9	1.78
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD11	9	1.78
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD12	9	1.78
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD13	9	1.78
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD11	9	1.78
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD12	9	1.78
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD13	9	1.78
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD11	3	1.77
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD12	3	1.77
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD13	3	1.77
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD11	6	1.77
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD12	6	1.77
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD13	6	1.77
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD21	6	1.77
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD22	6	1.77
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD23	6	1.77
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD11	7	1.76
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD12	7	1.76
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD13	7	1.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD21	7	1.76
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD22	7	1.76
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD23	7	1.76
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD11	1	1.73
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD12	1	1.73
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD13	1	1.73
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD11	10	1.73
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD12	10	1.73
(6,730)	2:39:B:CYS:SG	1:68:A:ILE:HD13	10	1.73
(6,55)	1:95:A:CYS:SG	1:57:A:GLY:H	8	1.73
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD11	10	1.73
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD12	10	1.73
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD13	10	1.73
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD11	10	1.73
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD12	10	1.73
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD13	10	1.73
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD11	10	1.73
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD12	10	1.73
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD13	10	1.73
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD11	1	1.72
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD12	1	1.72
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD13	1	1.72
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD11	6	1.72
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD12	6	1.72
(6,671)	2:5:B:ILE:CG1	2:58:B:ILE:HD13	6	1.72
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD11	3	1.71
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD12	3	1.71
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD13	3	1.71
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD21	3	1.71
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD22	3	1.71
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD23	3	1.71
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD11	8	1.71
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD12	8	1.71
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD13	8	1.71
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD11	8	1.71
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD12	8	1.71
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD13	8	1.71
(6,129)	2:39:B:CYS:SG	2:4:B:TYR:H	7	1.71
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD11	3	1.71
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD12	3	1.71
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD13	3	1.71
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD11	3	1.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD12	3	1.71
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD13	3	1.71
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD11	3	1.71
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD12	3	1.71
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD13	3	1.71
(6,144)	2:39:B:CYS:SG	2:24:B:SER:H	8	1.7
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD11	4	1.69
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD12	4	1.69
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD13	4	1.69
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD21	4	1.69
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD22	4	1.69
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD23	4	1.69
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD11	5	1.69
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD12	5	1.69
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD13	5	1.69
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD21	5	1.69
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD22	5	1.69
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD23	5	1.69
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD11	6	1.69
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD12	6	1.69
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD13	6	1.69
(6,353)	2:39:B:CYS:SG	1:40:A:TYR:H	10	1.69
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD11	3	1.67
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD12	3	1.67
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD13	3	1.67
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD11	7	1.67
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD12	7	1.67
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD13	7	1.67
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD21	7	1.67
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD22	7	1.67
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD23	7	1.67
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD11	6	1.66
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD12	6	1.66
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD13	6	1.66
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD11	5	1.66
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD12	5	1.66
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD13	5	1.66
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD11	7	1.66
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD12	7	1.66
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD13	7	1.66
(6,71)	1:95:A:CYS:SG	1:106:A:ARG:H	6	1.66
(6,125)	2:5:B:ILE:CG1	2:108:B:THR:H	1	1.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD11	9	1.64
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD12	9	1.64
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD13	9	1.64
(6,71)	1:95:A:CYS:SG	1:106:A:ARG:H	10	1.64
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD11	7	1.63
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD12	7	1.63
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD13	7	1.63
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG11	3	1.63
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG12	3	1.63
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG13	3	1.63
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG21	3	1.63
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG22	3	1.63
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG23	3	1.63
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD11	2	1.62
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD12	2	1.62
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD13	2	1.62
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD11	2	1.62
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD12	2	1.62
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD13	2	1.62
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD11	2	1.62
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD12	2	1.62
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD13	2	1.62
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD11	2	1.62
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD12	2	1.62
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD13	2	1.62
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD11	2	1.61
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD12	2	1.61
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD13	2	1.61
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD11	3	1.61
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD12	3	1.61
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD13	3	1.61
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD11	4	1.6
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD12	4	1.6
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD13	4	1.6
(6,353)	2:39:B:CYS:SG	1:40:A:TYR:H	4	1.6
(6,144)	2:39:B:CYS:SG	2:24:B:SER:H	6	1.6
(6,62)	1:95:A:CYS:SG	1:77:A:GLY:H	8	1.6
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD11	2	1.58
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD12	2	1.58
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD13	2	1.58
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD11	2	1.58
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD12	2	1.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD13	2	1.58
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD11	2	1.58
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD12	2	1.58
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD13	2	1.58
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD11	9	1.57
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD12	9	1.57
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD13	9	1.57
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD21	9	1.57
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD22	9	1.57
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD23	9	1.57
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD11	8	1.56
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD12	8	1.56
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD13	8	1.56
(6,129)	2:39:B:CYS:SG	2:4:B:TYR:H	4	1.56
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD11	8	1.55
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD12	8	1.55
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD13	8	1.55
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD11	4	1.55
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD12	4	1.55
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD13	4	1.55
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD21	4	1.55
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD22	4	1.55
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD23	4	1.55
(6,125)	2:5:B:ILE:CG1	2:108:B:THR:H	5	1.55
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD11	8	1.54
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD12	8	1.54
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD13	8	1.54
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD11	3	1.53
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD12	3	1.53
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD13	3	1.53
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD11	5	1.52
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD12	5	1.52
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD13	5	1.52
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD11	8	1.52
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD12	8	1.52
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD13	8	1.52
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD11	8	1.52
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD12	8	1.52
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD13	8	1.52
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD11	8	1.52
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD12	8	1.52
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD13	8	1.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD11	10	1.5
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD12	10	1.5
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD13	10	1.5
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD21	10	1.5
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD22	10	1.5
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD23	10	1.5
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD11	5	1.5
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD12	5	1.5
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD13	5	1.5
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD21	5	1.5
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD22	5	1.5
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD23	5	1.5
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD11	4	1.5
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD12	4	1.5
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD13	4	1.5
(6,124)	2:5:B:ILE:CG1	2:106:B:ARG:H	7	1.5
(6,71)	1:95:A:CYS:SG	1:106:A:ARG:H	8	1.5
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD11	5	1.49
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD12	5	1.49
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD13	5	1.49
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD21	5	1.49
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD22	5	1.49
(6,753)	2:41:B:CYS:SG	1:20:A:LEU:HD23	5	1.49
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD11	3	1.48
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD12	3	1.48
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD13	3	1.48
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG11	2	1.48
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG12	2	1.48
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG13	2	1.48
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG21	2	1.48
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG22	2	1.48
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG23	2	1.48
(6,59)	1:95:A:CYS:SG	1:62:A:ILE:H	8	1.48
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD11	6	1.47
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD12	6	1.47
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD13	6	1.47
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD11	10	1.46
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD12	10	1.46
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD13	10	1.46
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD11	10	1.45
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD12	10	1.45
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD13	10	1.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD21	10	1.45
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD22	10	1.45
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD23	10	1.45
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD11	1	1.45
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD12	1	1.45
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD13	1	1.45
(6,357)	2:39:B:CYS:SG	1:48:A:ALA:H	1	1.45
(6,129)	2:39:B:CYS:SG	2:4:B:TYR:H	1	1.45
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD11	1	1.43
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD12	1	1.43
(6,709)	2:39:B:CYS:SG	2:71:B:ILE:HD13	1	1.43
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD11	7	1.43
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD12	7	1.43
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD13	7	1.43
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD11	7	1.43
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD12	7	1.43
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD13	7	1.43
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD11	7	1.43
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD12	7	1.43
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD13	7	1.43
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD11	8	1.41
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD12	8	1.41
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD13	8	1.41
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD11	10	1.4
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD12	10	1.4
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD13	10	1.4
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD11	2	1.39
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD12	2	1.39
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD13	2	1.39
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD11	9	1.39
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD12	9	1.39
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD13	9	1.39
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD11	6	1.37
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD12	6	1.37
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD13	6	1.37
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD11	1	1.36
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD12	1	1.36
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD13	1	1.36
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD11	1	1.36
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD12	1	1.36
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD13	1	1.36
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD11	1	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD12	1	1.36
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD13	1	1.36
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD11	2	1.35
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD12	2	1.35
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD13	2	1.35
(6,129)	2:39:B:CYS:SG	2:4:B:TYR:H	9	1.35
(6,357)	2:39:B:CYS:SG	1:48:A:ALA:H	2	1.34
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD11	4	1.33
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD12	4	1.33
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD13	4	1.33
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD21	4	1.33
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD22	4	1.33
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD23	4	1.33
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD11	4	1.33
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD12	4	1.33
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD13	4	1.33
(6,146)	2:39:B:CYS:SG	2:26:B:GLY:H	5	1.33
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD11	7	1.32
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD12	7	1.32
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD13	7	1.32
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD11	7	1.32
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD12	7	1.32
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD13	7	1.32
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD21	7	1.32
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD22	7	1.32
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD23	7	1.32
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD11	4	1.32
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD12	4	1.32
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD13	4	1.32
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD11	4	1.32
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD12	4	1.32
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD13	4	1.32
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD11	4	1.32
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD12	4	1.32
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD13	4	1.32
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD11	3	1.31
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD12	3	1.31
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD13	3	1.31
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD21	3	1.31
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD22	3	1.31
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD23	3	1.31
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD11	10	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD12	10	1.31
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD13	10	1.31
(6,357)	2:39:B:CYS:SG	1:48:A:ALA:H	5	1.31
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD11	2	1.3
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD12	2	1.3
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD13	2	1.3
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD11	4	1.3
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD12	4	1.3
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD13	4	1.3
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD11	1	1.29
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD12	1	1.29
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD13	1	1.29
(6,94)	2:5:B:ILE:CG1	2:53:B:TYR:H	10	1.28
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD11	4	1.27
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD12	4	1.27
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD13	4	1.27
(6,315)	2:5:B:ILE:CG1	1:83:A:LEU:H	8	1.27
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD11	5	1.27
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD12	5	1.27
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD13	5	1.27
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD11	5	1.27
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD12	5	1.27
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD13	5	1.27
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD11	5	1.27
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD12	5	1.27
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD13	5	1.27
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD11	6	1.26
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD12	6	1.26
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD13	6	1.26
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD21	6	1.26
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD22	6	1.26
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD23	6	1.26
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD11	1	1.26
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD12	1	1.26
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD13	1	1.26
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD11	8	1.25
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD12	8	1.25
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD13	8	1.25
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD21	8	1.25
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD22	8	1.25
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD23	8	1.25
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD11	2	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD12	2	1.25
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD13	2	1.25
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD11	4	1.25
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD12	4	1.25
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD13	4	1.25
(6,315)	2:5:B:ILE:CG1	1:83:A:LEU:H	4	1.24
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD11	2	1.23
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD12	2	1.23
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD13	2	1.23
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD21	2	1.23
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD22	2	1.23
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD23	2	1.23
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD11	4	1.23
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD12	4	1.23
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD13	4	1.23
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD21	4	1.23
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD22	4	1.23
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD23	4	1.23
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD11	7	1.23
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD12	7	1.23
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD13	7	1.23
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD11	6	1.23
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD12	6	1.23
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD13	6	1.23
(6,129)	2:39:B:CYS:SG	2:4:B:TYR:H	10	1.23
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD11	9	1.22
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD12	9	1.22
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD13	9	1.22
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD21	9	1.22
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD22	9	1.22
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD23	9	1.22
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD11	5	1.21
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD12	5	1.21
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD13	5	1.21
(6,357)	2:39:B:CYS:SG	1:48:A:ALA:H	6	1.21
(6,129)	2:39:B:CYS:SG	2:4:B:TYR:H	2	1.21
(6,71)	1:95:A:CYS:SG	1:106:A:ARG:H	2	1.21
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG11	6	1.2
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG12	6	1.2
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG13	6	1.2
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG21	6	1.2
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG22	6	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG23	6	1.2
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG11	8	1.19
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG12	8	1.19
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG13	8	1.19
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG21	8	1.19
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG22	8	1.19
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG23	8	1.19
(6,354)	2:39:B:CYS:SG	1:42:A:ALA:H	8	1.18
(6,315)	2:5:B:ILE:CG1	1:83:A:LEU:H	7	1.18
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD11	9	1.17
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD12	9	1.17
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD13	9	1.17
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD11	8	1.16
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD12	8	1.16
(6,659)	1:5:A:ILE:CG1	1:68:A:ILE:HD13	8	1.16
(6,146)	2:39:B:CYS:SG	2:26:B:GLY:H	2	1.16
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD11	1	1.15
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD12	1	1.15
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD13	1	1.15
(1,69)	2:56:B:THR:CB	2:60:B:TYR:CD1	1	1.15
(6,125)	2:5:B:ILE:CG1	2:108:B:THR:H	2	1.14
(6,125)	2:5:B:ILE:CG1	2:108:B:THR:H	4	1.14
(1,50)	2:60:B:TYR:CB	2:63:B:TRP:CD1	6	1.14
(1,50)	2:60:B:TYR:CB	2:63:B:TRP:CD1	7	1.14
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD11	6	1.13
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD12	6	1.13
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD13	6	1.13
(6,146)	2:39:B:CYS:SG	2:26:B:GLY:H	7	1.13
(6,129)	2:39:B:CYS:SG	2:4:B:TYR:H	8	1.13
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD11	6	1.13
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD12	6	1.13
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD13	6	1.13
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD11	6	1.13
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD12	6	1.13
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD13	6	1.13
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD11	6	1.13
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD12	6	1.13
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD13	6	1.13
(1,69)	2:56:B:THR:CB	2:60:B:TYR:CD1	9	1.13
(1,50)	2:60:B:TYR:CB	2:63:B:TRP:CD1	10	1.13
(1,50)	2:60:B:TYR:CB	2:63:B:TRP:CD1	5	1.12
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD11	8	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD12	8	1.11
(6,820)	2:95:B:CYS:SG	1:100:A:ILE:HD13	8	1.11
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD11	8	1.09
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD12	8	1.09
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD13	8	1.09
(1,50)	2:60:B:TYR:CB	2:63:B:TRP:CD1	2	1.09
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD11	10	1.07
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD12	10	1.07
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD13	10	1.07
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD11	9	1.07
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD12	9	1.07
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD13	9	1.07
(6,129)	2:39:B:CYS:SG	2:4:B:TYR:H	3	1.07
(6,87)	2:5:B:ILE:CG1	2:34:B:VAL:H	10	1.07
(1,50)	2:60:B:TYR:CB	2:63:B:TRP:CD1	9	1.07
(6,355)	2:39:B:CYS:SG	1:43:A:SER:H	8	1.06
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD11	1	1.05
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD12	1	1.05
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD13	1	1.05
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD11	4	1.05
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD12	4	1.05
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD13	4	1.05
(6,357)	2:39:B:CYS:SG	1:48:A:ALA:H	9	1.05
(6,351)	2:39:B:CYS:SG	1:38:A:ILE:H	8	1.05
(1,50)	2:60:B:TYR:CB	2:63:B:TRP:CD1	3	1.05
(1,50)	2:60:B:TYR:CB	2:63:B:TRP:CD1	4	1.05
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD11	10	1.02
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD12	10	1.02
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD13	10	1.02
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD21	10	1.02
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD22	10	1.02
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD23	10	1.02
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD11	10	1.02
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD12	10	1.02
(6,690)	2:5:B:ILE:CG1	1:71:A:ILE:HD13	10	1.02
(6,569)	1:41:A:CYS:SG	2:26:B:GLY:H	1	1.02
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD11	2	1.02
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD12	2	1.02
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD13	2	1.02
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD21	2	1.02
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD22	2	1.02
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD23	2	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD11	2	1.02
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD12	2	1.02
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD13	2	1.02
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD21	2	1.02
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD22	2	1.02
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD23	2	1.02
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD11	2	1.02
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD12	2	1.02
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD13	2	1.02
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD21	2	1.02
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD22	2	1.02
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD23	2	1.02
(6,815)	2:95:B:CYS:SG	1:58:A:ILE:HD11	7	1.01
(6,815)	2:95:B:CYS:SG	1:58:A:ILE:HD12	7	1.01
(6,815)	2:95:B:CYS:SG	1:58:A:ILE:HD13	7	1.01
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD11	10	1.01
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD12	10	1.01
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD13	10	1.01
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD21	10	1.01
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD22	10	1.01
(6,736)	2:39:B:CYS:SG	1:7:A:LEU:HD23	10	1.01
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD11	1	1.01
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD12	1	1.01
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD13	1	1.01
(6,357)	2:39:B:CYS:SG	1:48:A:ALA:H	3	1.0
(6,357)	2:39:B:CYS:SG	1:48:A:ALA:H	8	1.0
(6,354)	2:39:B:CYS:SG	1:42:A:ALA:H	3	1.0
(1,50)	2:60:B:TYR:CB	2:63:B:TRP:CD1	1	1.0
(1,50)	2:60:B:TYR:CB	2:63:B:TRP:CD1	8	1.0
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD11	3	0.99
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD12	3	0.99
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD13	3	0.99
(6,357)	2:39:B:CYS:SG	1:48:A:ALA:H	10	0.99
(6,94)	2:5:B:ILE:CG1	2:53:B:TYR:H	5	0.99
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD11	10	0.98
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD12	10	0.98
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD13	10	0.98
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD21	10	0.98
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD22	10	0.98
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD23	10	0.98
(6,129)	2:39:B:CYS:SG	2:4:B:TYR:H	6	0.98
(1,69)	2:56:B:THR:CB	2:60:B:TYR:CD1	10	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD11	3	0.97
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD12	3	0.97
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD13	3	0.97
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD21	3	0.97
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD22	3	0.97
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD23	3	0.97
(6,357)	2:39:B:CYS:SG	1:48:A:ALA:H	7	0.97
(6,355)	2:39:B:CYS:SG	1:43:A:SER:H	1	0.97
(1,51)	2:60:B:TYR:CB	2:63:B:TRP:CE2	5	0.97
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD11	8	0.96
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD12	8	0.96
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD13	8	0.96
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD21	8	0.96
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD22	8	0.96
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD23	8	0.96
(6,355)	2:39:B:CYS:SG	1:43:A:SER:H	6	0.96
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD11	3	0.95
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD12	3	0.95
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD13	3	0.95
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD11	2	0.95
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD12	2	0.95
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD13	2	0.95
(6,354)	2:39:B:CYS:SG	1:42:A:ALA:H	2	0.95
(1,69)	2:56:B:THR:CB	2:60:B:TYR:CD1	5	0.95
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG11	1	0.94
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG12	1	0.94
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG13	1	0.94
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG21	1	0.94
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG22	1	0.94
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG23	1	0.94
(6,354)	2:39:B:CYS:SG	1:42:A:ALA:H	1	0.94
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD11	9	0.93
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD12	9	0.93
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD13	9	0.93
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD11	3	0.93
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD12	3	0.93
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD13	3	0.93
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD21	3	0.93
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD22	3	0.93
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD23	3	0.93
(1,51)	2:60:B:TYR:CB	2:63:B:TRP:CE2	10	0.93
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD11	1	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD12	1	0.92
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD13	1	0.92
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD21	1	0.92
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD22	1	0.92
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD23	1	0.92
(6,354)	2:39:B:CYS:SG	1:42:A:ALA:H	6	0.92
(1,69)	2:56:B:THR:CB	2:60:B:TYR:CD1	6	0.92
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD11	10	0.91
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD12	10	0.91
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD13	10	0.91
(6,351)	2:39:B:CYS:SG	1:38:A:ILE:H	3	0.91
(6,66)	1:95:A:CYS:SG	1:87:A:ALA:H	8	0.89
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD11	5	0.88
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD12	5	0.88
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD13	5	0.88
(6,625)	1:41:A:CYS:SG	1:31:A:TRP:H	6	0.88
(6,625)	1:41:A:CYS:SG	1:31:A:TRP:H	10	0.88
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD11	1	0.87
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD12	1	0.87
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD13	1	0.87
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD21	1	0.87
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD22	1	0.87
(6,808)	2:95:B:CYS:SG	2:85:B:LEU:HD23	1	0.87
(1,51)	2:60:B:TYR:CB	2:63:B:TRP:CE2	6	0.87
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD11	8	0.86
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD12	8	0.86
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD13	8	0.86
(6,355)	2:39:B:CYS:SG	1:43:A:SER:H	2	0.86
(6,146)	2:39:B:CYS:SG	2:26:B:GLY:H	1	0.86
(1,69)	2:56:B:THR:CB	2:60:B:TYR:CD1	3	0.86
(1,69)	2:56:B:THR:CB	2:60:B:TYR:CD1	7	0.86
(6,658)	1:5:A:ILE:CG1	1:58:A:ILE:HD11	9	0.85
(6,658)	1:5:A:ILE:CG1	1:58:A:ILE:HD12	9	0.85
(6,658)	1:5:A:ILE:CG1	1:58:A:ILE:HD13	9	0.85
(1,69)	2:56:B:THR:CB	2:60:B:TYR:CD1	2	0.85
(1,51)	2:60:B:TYR:CB	2:63:B:TRP:CE2	3	0.85
(1,21)	1:11:A:ILE:CG2	1:63:A:TRP:CE3	1	0.85
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD11	4	0.84
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD12	4	0.84
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD13	4	0.84
(6,357)	2:39:B:CYS:SG	1:48:A:ALA:H	4	0.84
(6,355)	2:39:B:CYS:SG	1:43:A:SER:H	5	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,354)	2:39:B:CYS:SG	1:42:A:ALA:H	5	0.84
(6,94)	2:5:B:ILE:CG1	2:53:B:TYR:H	7	0.84
(1,51)	2:60:B:TYR:CB	2:63:B:TRP:CE2	7	0.84
(1,1)	1:63:A:TRP:HZ3	2:63:B:TRP:HH2	10	0.84
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD11	7	0.83
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD12	7	0.83
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD13	7	0.83
(6,658)	1:5:A:ILE:CG1	1:58:A:ILE:HD11	6	0.83
(6,658)	1:5:A:ILE:CG1	1:58:A:ILE:HD12	6	0.83
(6,658)	1:5:A:ILE:CG1	1:58:A:ILE:HD13	6	0.83
(1,51)	2:60:B:TYR:CB	2:63:B:TRP:CE2	2	0.83
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD11	9	0.82
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD12	9	0.82
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD13	9	0.82
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD21	9	0.82
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD22	9	0.82
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD23	9	0.82
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD11	9	0.82
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD12	9	0.82
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD13	9	0.82
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD21	9	0.82
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD22	9	0.82
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD23	9	0.82
(6,638)	1:41:A:CYS:SG	1:71:A:ILE:H	2	0.82
(6,570)	1:41:A:CYS:SG	2:28:B:THR:H	10	0.82
(6,355)	2:39:B:CYS:SG	1:43:A:SER:H	3	0.82
(6,71)	1:95:A:CYS:SG	1:106:A:ARG:H	7	0.82
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD11	8	0.81
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD12	8	0.81
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD13	8	0.81
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD11	5	0.81
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD12	5	0.81
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD13	5	0.81
(1,69)	2:56:B:THR:CB	2:60:B:TYR:CD1	4	0.81
(6,354)	2:39:B:CYS:SG	1:42:A:ALA:H	9	0.8
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD11	10	0.79
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD12	10	0.79
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD13	10	0.79
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD11	9	0.79
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD12	9	0.79
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD13	9	0.79
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD11	5	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD12	5	0.79
(6,715)	2:39:B:CYS:SG	2:94:B:ILE:HD13	5	0.79
(6,625)	1:41:A:CYS:SG	1:31:A:TRP:H	4	0.79
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD11	4	0.79
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD12	4	0.79
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD13	4	0.79
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD11	4	0.79
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD12	4	0.79
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD13	4	0.79
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD11	4	0.79
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD12	4	0.79
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD13	4	0.79
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD11	9	0.78
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD12	9	0.78
(6,677)	2:5:B:ILE:CG1	2:101:B:ILE:HD13	9	0.78
(6,638)	1:41:A:CYS:SG	1:71:A:ILE:H	7	0.78
(6,124)	2:5:B:ILE:CG1	2:106:B:ARG:H	2	0.78
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD11	3	0.77
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD12	3	0.77
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD13	3	0.77
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD11	7	0.76
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD12	7	0.76
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD13	7	0.76
(6,673)	2:5:B:ILE:CG1	2:71:B:ILE:HD11	3	0.76
(6,673)	2:5:B:ILE:CG1	2:71:B:ILE:HD12	3	0.76
(6,673)	2:5:B:ILE:CG1	2:71:B:ILE:HD13	3	0.76
(1,51)	2:60:B:TYR:CB	2:63:B:TRP:CE2	1	0.76
(6,625)	1:41:A:CYS:SG	1:31:A:TRP:H	8	0.75
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD11	4	0.74
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD12	4	0.74
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD13	4	0.74
(6,351)	2:39:B:CYS:SG	1:38:A:ILE:H	2	0.74
(1,21)	1:11:A:ILE:CG2	1:63:A:TRP:CE3	8	0.74
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD11	9	0.73
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD12	9	0.73
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD13	9	0.73
(6,570)	1:41:A:CYS:SG	2:28:B:THR:H	3	0.73
(1,21)	1:11:A:ILE:CG2	1:63:A:TRP:CE3	10	0.73
(6,354)	2:39:B:CYS:SG	1:42:A:ALA:H	7	0.72
(1,51)	2:60:B:TYR:CB	2:63:B:TRP:CE2	9	0.72
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD11	4	0.71
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD12	4	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD13	4	0.71
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD21	4	0.71
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD22	4	0.71
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD23	4	0.71
(6,625)	1:41:A:CYS:SG	1:31:A:TRP:H	7	0.71
(6,66)	1:95:A:CYS:SG	1:87:A:ALA:H	6	0.71
(1,12)	1:27:A:PHE:CD2	1:36:A:THR:CA	6	0.71
(6,625)	1:41:A:CYS:SG	1:31:A:TRP:H	5	0.7
(6,570)	1:41:A:CYS:SG	2:28:B:THR:H	7	0.7
(6,355)	2:39:B:CYS:SG	1:43:A:SER:H	7	0.7
(6,351)	2:39:B:CYS:SG	1:38:A:ILE:H	9	0.7
(6,638)	1:41:A:CYS:SG	1:71:A:ILE:H	3	0.69
(6,125)	2:5:B:ILE:CG1	2:108:B:THR:H	9	0.69
(6,66)	1:95:A:CYS:SG	1:87:A:ALA:H	2	0.69
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD11	9	0.68
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD12	9	0.68
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD13	9	0.68
(6,638)	1:41:A:CYS:SG	1:71:A:ILE:H	4	0.68
(6,351)	2:39:B:CYS:SG	1:38:A:ILE:H	7	0.68
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD11	6	0.68
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD12	6	0.68
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD13	6	0.68
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD21	6	0.68
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD22	6	0.68
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD23	6	0.68
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD11	6	0.68
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD12	6	0.68
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD13	6	0.68
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD21	6	0.68
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD22	6	0.68
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD23	6	0.68
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD11	6	0.68
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD12	6	0.68
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD13	6	0.68
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD21	6	0.68
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD22	6	0.68
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD23	6	0.68
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG11	5	0.67
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG12	5	0.67
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG13	5	0.67
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG21	5	0.67
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG22	5	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG23	5	0.67
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG11	7	0.67
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG12	7	0.67
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG13	7	0.67
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG21	7	0.67
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG22	7	0.67
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG23	7	0.67
(6,658)	1:5:A:ILE:CG1	1:58:A:ILE:HD11	4	0.67
(6,658)	1:5:A:ILE:CG1	1:58:A:ILE:HD12	4	0.67
(6,658)	1:5:A:ILE:CG1	1:58:A:ILE:HD13	4	0.67
(1,21)	1:11:A:ILE:CG2	1:63:A:TRP:CE3	4	0.67
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD11	10	0.66
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD12	10	0.66
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD13	10	0.66
(6,241)	2:95:B:CYS:SG	2:77:B:GLY:H	2	0.66
(1,1)	1:63:A:TRP:HZ3	2:63:B:TRP:HH2	2	0.66
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD11	1	0.65
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD12	1	0.65
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD13	1	0.65
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD21	1	0.65
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD22	1	0.65
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD23	1	0.65
(1,51)	2:60:B:TYR:CB	2:63:B:TRP:CE2	8	0.65
(1,1)	1:63:A:TRP:HZ3	2:63:B:TRP:HH2	4	0.65
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD11	6	0.64
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD12	6	0.64
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD13	6	0.64
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD21	6	0.64
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD22	6	0.64
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD23	6	0.64
(6,625)	1:41:A:CYS:SG	1:31:A:TRP:H	2	0.64
(6,351)	2:39:B:CYS:SG	1:38:A:ILE:H	6	0.64
(1,63)	2:14:B:GLU:CA	2:63:B:TRP:CE3	6	0.64
(1,51)	2:60:B:TYR:CB	2:63:B:TRP:CE2	4	0.63
(1,12)	1:27:A:PHE:CD2	1:36:A:THR:CA	9	0.63
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD11	5	0.62
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD12	5	0.62
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD13	5	0.62
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD21	5	0.62
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD22	5	0.62
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD23	5	0.62
(6,355)	2:39:B:CYS:SG	1:43:A:SER:H	9	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,94)	2:5:B:ILE:CG1	2:53:B:TYR:H	1	0.62
(6,58)	1:95:A:CYS:SG	1:61:A:ALA:H	4	0.62
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD11	1	0.62
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD12	1	0.62
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD13	1	0.62
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD11	1	0.62
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD12	1	0.62
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD13	1	0.62
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD11	1	0.62
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD12	1	0.62
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD13	1	0.62
(6,470)	2:41:B:CYS:SG	2:27:B:PHE:H	3	0.61
(6,241)	2:95:B:CYS:SG	2:77:B:GLY:H	1	0.61
(6,66)	1:95:A:CYS:SG	1:87:A:ALA:H	9	0.61
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD11	6	0.61
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD12	6	0.61
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD13	6	0.61
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD11	6	0.61
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD12	6	0.61
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD13	6	0.61
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD11	6	0.61
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD12	6	0.61
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD13	6	0.61
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD11	5	0.6
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD12	5	0.6
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD13	5	0.6
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD11	6	0.6
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD12	6	0.6
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD13	6	0.6
(6,638)	1:41:A:CYS:SG	1:71:A:ILE:H	5	0.6
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD11	8	0.6
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD12	8	0.6
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD13	8	0.6
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD11	8	0.6
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD12	8	0.6
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD13	8	0.6
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD11	8	0.6
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD12	8	0.6
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD13	8	0.6
(1,63)	2:14:B:GLU:CA	2:63:B:TRP:CE3	3	0.59
(1,12)	1:27:A:PHE:CD2	1:36:A:THR:CA	5	0.59
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD11	8	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD12	8	0.58
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD13	8	0.58
(6,119)	2:5:B:ILE:CG1	2:97:B:GLY:H	10	0.58
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD11	2	0.58
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD12	2	0.58
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD13	2	0.58
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD11	2	0.58
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD12	2	0.58
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD13	2	0.58
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD11	2	0.58
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD12	2	0.58
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD13	2	0.58
(1,63)	2:14:B:GLU:CA	2:63:B:TRP:CE3	4	0.58
(1,63)	2:14:B:GLU:CA	2:63:B:TRP:CE3	9	0.58
(1,12)	1:27:A:PHE:CD2	1:36:A:THR:CA	1	0.58
(6,66)	1:95:A:CYS:SG	1:87:A:ALA:H	3	0.57
(5,41)	2:83:B:LEU:HD21	2:88:B:ILE:HD11	6	0.57
(5,41)	2:83:B:LEU:HD21	2:88:B:ILE:HD12	6	0.57
(5,41)	2:83:B:LEU:HD21	2:88:B:ILE:HD13	6	0.57
(5,41)	2:83:B:LEU:HD22	2:88:B:ILE:HD11	6	0.57
(5,41)	2:83:B:LEU:HD22	2:88:B:ILE:HD12	6	0.57
(5,41)	2:83:B:LEU:HD22	2:88:B:ILE:HD13	6	0.57
(5,41)	2:83:B:LEU:HD23	2:88:B:ILE:HD11	6	0.57
(5,41)	2:83:B:LEU:HD23	2:88:B:ILE:HD12	6	0.57
(5,41)	2:83:B:LEU:HD23	2:88:B:ILE:HD13	6	0.57
(1,63)	2:14:B:GLU:CA	2:63:B:TRP:CE3	10	0.57
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD11	6	0.56
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD12	6	0.56
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD13	6	0.56
(6,638)	1:41:A:CYS:SG	1:71:A:ILE:H	10	0.56
(6,609)	1:41:A:CYS:SG	2:110:B:HIS:H	9	0.56
(6,66)	1:95:A:CYS:SG	1:87:A:ALA:H	5	0.56
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD11	3	0.56
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD12	3	0.56
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD13	3	0.56
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD11	3	0.56
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD12	3	0.56
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD13	3	0.56
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD11	3	0.56
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD12	3	0.56
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD13	3	0.56
(3,213)	2:97:B:GLY:O	2:101:B:ILE:H	9	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD11	6	0.55
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD12	6	0.55
(6,818)	2:95:B:CYS:SG	1:89:A:ILE:HD13	6	0.55
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD11	2	0.55
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD12	2	0.55
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD13	2	0.55
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD21	2	0.55
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD22	2	0.55
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD23	2	0.55
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD11	5	0.55
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD12	5	0.55
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD13	5	0.55
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD21	5	0.55
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD22	5	0.55
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD23	5	0.55
(6,638)	1:41:A:CYS:SG	1:71:A:ILE:H	1	0.55
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG11	4	0.54
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG12	4	0.54
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG13	4	0.54
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG21	4	0.54
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG22	4	0.54
(6,683)	2:5:B:ILE:CG1	2:34:B:VAL:HG23	4	0.54
(6,638)	1:41:A:CYS:SG	1:71:A:ILE:H	9	0.54
(6,625)	1:41:A:CYS:SG	1:31:A:TRP:H	9	0.54
(6,125)	2:5:B:ILE:CG1	2:108:B:THR:H	3	0.54
(6,66)	1:95:A:CYS:SG	1:87:A:ALA:H	10	0.54
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD11	10	0.53
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD12	10	0.53
(6,740)	2:41:B:CYS:SG	1:11:A:ILE:HD13	10	0.53
(6,673)	2:5:B:ILE:CG1	2:71:B:ILE:HD11	9	0.53
(6,673)	2:5:B:ILE:CG1	2:71:B:ILE:HD12	9	0.53
(6,673)	2:5:B:ILE:CG1	2:71:B:ILE:HD13	9	0.53
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD11	7	0.53
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD12	7	0.53
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD13	7	0.53
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD21	7	0.53
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD22	7	0.53
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD23	7	0.53
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD11	7	0.53
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD12	7	0.53
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD13	7	0.53
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD21	7	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD22	7	0.53
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD23	7	0.53
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD11	7	0.53
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD12	7	0.53
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD13	7	0.53
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD21	7	0.53
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD22	7	0.53
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD23	7	0.53
(1,21)	1:11:A:ILE:CG2	1:63:A:TRP:CE3	7	0.53
(1,1)	1:63:A:TRP:HZ3	2:63:B:TRP:HH2	5	0.53
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD11	7	0.52
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD12	7	0.52
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD13	7	0.52
(6,124)	2:5:B:ILE:CG1	2:106:B:ARG:H	8	0.52
(5,41)	2:83:B:LEU:HD21	2:88:B:ILE:HD11	8	0.52
(5,41)	2:83:B:LEU:HD21	2:88:B:ILE:HD12	8	0.52
(5,41)	2:83:B:LEU:HD21	2:88:B:ILE:HD13	8	0.52
(5,41)	2:83:B:LEU:HD22	2:88:B:ILE:HD11	8	0.52
(5,41)	2:83:B:LEU:HD22	2:88:B:ILE:HD12	8	0.52
(5,41)	2:83:B:LEU:HD22	2:88:B:ILE:HD13	8	0.52
(5,41)	2:83:B:LEU:HD23	2:88:B:ILE:HD11	8	0.52
(5,41)	2:83:B:LEU:HD23	2:88:B:ILE:HD12	8	0.52
(5,41)	2:83:B:LEU:HD23	2:88:B:ILE:HD13	8	0.52
(1,21)	1:11:A:ILE:CG2	1:63:A:TRP:CE3	9	0.52
(6,239)	2:95:B:CYS:SG	2:75:B:SER:H	5	0.51
(6,71)	1:95:A:CYS:SG	1:106:A:ARG:H	4	0.51
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD11	7	0.51
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD12	7	0.51
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD13	7	0.51
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD11	7	0.51
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD12	7	0.51
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD13	7	0.51
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD11	7	0.51
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD12	7	0.51
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD13	7	0.51
(1,21)	1:11:A:ILE:CG2	1:63:A:TRP:CE3	5	0.51
(1,1)	1:63:A:TRP:HZ3	2:63:B:TRP:HH2	7	0.51
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD11	7	0.5
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD12	7	0.5
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD13	7	0.5
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD11	7	0.5
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD12	7	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD13	7	0.5
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD11	7	0.5
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD12	7	0.5
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD13	7	0.5
(3,214)	2:101:B:ILE:N	2:97:B:GLY:O	9	0.5
(6,124)	2:5:B:ILE:CG1	2:106:B:ARG:H	3	0.49
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD11	6	0.48
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD12	6	0.48
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD13	6	0.48
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD21	6	0.48
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD22	6	0.48
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD23	6	0.48
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD11	8	0.48
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD12	8	0.48
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD13	8	0.48
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD21	8	0.48
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD22	8	0.48
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD23	8	0.48
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD11	1	0.48
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD12	1	0.48
(6,678)	2:5:B:ILE:CG1	2:100:B:ILE:HD13	1	0.48
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD11	1	0.48
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD12	1	0.48
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD13	1	0.48
(6,621)	1:41:A:CYS:SG	1:26:A:GLY:H	10	0.48
(6,66)	1:95:A:CYS:SG	1:87:A:ALA:H	7	0.48
(6,49)	1:95:A:CYS:SG	1:22:A:LYS:H	6	0.48
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD11	4	0.48
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD12	4	0.48
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD13	4	0.48
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD11	4	0.48
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD12	4	0.48
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD13	4	0.48
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD11	4	0.48
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD12	4	0.48
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD13	4	0.48
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD11	6	0.48
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD12	6	0.48
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD13	6	0.48
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD11	6	0.48
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD12	6	0.48
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD13	6	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD11	6	0.48
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD12	6	0.48
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD13	6	0.48
(1,55)	2:63:B:TRP:CD1	2:64:B:SER:CB	5	0.48
(1,55)	2:63:B:TRP:CD1	2:64:B:SER:CB	9	0.48
(1,21)	1:11:A:ILE:CG2	1:63:A:TRP:CE3	2	0.48
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD11	4	0.47
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD12	4	0.47
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD13	4	0.47
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD21	4	0.47
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD22	4	0.47
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD23	4	0.47
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD11	4	0.47
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD12	4	0.47
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD13	4	0.47
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD21	4	0.47
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD22	4	0.47
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD23	4	0.47
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD11	4	0.47
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD12	4	0.47
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD13	4	0.47
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD21	4	0.47
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD22	4	0.47
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD23	4	0.47
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD11	10	0.47
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD12	10	0.47
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD13	10	0.47
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD11	10	0.47
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD12	10	0.47
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD13	10	0.47
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD11	10	0.47
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD12	10	0.47
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD13	10	0.47
(1,55)	2:63:B:TRP:CD1	2:64:B:SER:CB	1	0.47
(1,1)	1:63:A:TRP:HZ3	2:63:B:TRP:HH2	1	0.47
(6,609)	1:41:A:CYS:SG	2:110:B:HIS:H	8	0.46
(6,476)	2:41:B:CYS:SG	2:47:B:LEU:H	2	0.46
(6,66)	1:95:A:CYS:SG	1:87:A:ALA:H	1	0.46
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD11	8	0.46
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD12	8	0.46
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD13	8	0.46
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD21	8	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD22	8	0.46
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD23	8	0.46
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD11	8	0.46
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD12	8	0.46
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD13	8	0.46
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD21	8	0.46
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD22	8	0.46
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD23	8	0.46
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD11	8	0.46
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD12	8	0.46
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD13	8	0.46
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD21	8	0.46
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD22	8	0.46
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD23	8	0.46
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD11	5	0.45
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD12	5	0.45
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD13	5	0.45
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD11	9	0.45
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD12	9	0.45
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD13	9	0.45
(1,55)	2:63:B:TRP:CD1	2:64:B:SER:CB	8	0.45
(1,12)	1:27:A:PHE:CD2	1:36:A:THR:CA	8	0.45
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD11	6	0.44
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD12	6	0.44
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD13	6	0.44
(6,520)	2:41:B:CYS:SG	1:11:A:ILE:H	6	0.44
(6,146)	2:39:B:CYS:SG	2:26:B:GLY:H	4	0.44
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD11	5	0.44
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD12	5	0.44
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD13	5	0.44
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD21	5	0.44
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD22	5	0.44
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD23	5	0.44
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD11	5	0.44
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD12	5	0.44
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD13	5	0.44
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD21	5	0.44
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD22	5	0.44
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD23	5	0.44
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD11	5	0.44
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD12	5	0.44
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD13	5	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD21	5	0.44
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD22	5	0.44
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD23	5	0.44
(6,520)	2:41:B:CYS:SG	1:11:A:ILE:H	3	0.43
(6,363)	2:39:B:CYS:SG	1:60:A:TYR:H	8	0.43
(6,241)	2:95:B:CYS:SG	2:77:B:GLY:H	5	0.43
(6,241)	2:95:B:CYS:SG	2:77:B:GLY:H	10	0.43
(1,69)	2:56:B:THR:CB	2:60:B:TYR:CD1	8	0.43
(1,63)	2:14:B:GLU:CA	2:63:B:TRP:CE3	2	0.43
(1,55)	2:63:B:TRP:CD1	2:64:B:SER:CB	2	0.43
(1,21)	1:11:A:ILE:CG2	1:63:A:TRP:CE3	6	0.43
(6,123)	2:5:B:ILE:CG1	2:105:B:SER:H	10	0.42
(6,49)	1:95:A:CYS:SG	1:22:A:LYS:H	5	0.42
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD11	3	0.42
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD12	3	0.42
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD13	3	0.42
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD11	3	0.42
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD12	3	0.42
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD13	3	0.42
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD11	3	0.42
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD12	3	0.42
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD13	3	0.42
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD11	4	0.41
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD12	4	0.41
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD13	4	0.41
(6,351)	2:39:B:CYS:SG	1:38:A:ILE:H	5	0.41
(3,175)	2:65:B:GLY:O	2:69:B:VAL:H	3	0.41
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD11	9	0.4
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD12	9	0.4
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD13	9	0.4
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD21	9	0.4
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD22	9	0.4
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD23	9	0.4
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD11	9	0.4
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD12	9	0.4
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD13	9	0.4
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD21	9	0.4
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD22	9	0.4
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD23	9	0.4
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD11	9	0.4
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD12	9	0.4
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD13	9	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD21	9	0.4
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD22	9	0.4
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD23	9	0.4
(1,55)	2:63:B:TRP:CD1	2:64:B:SER:CB	7	0.4
(6,62)	1:95:A:CYS:SG	1:77:A:GLY:H	6	0.39
(3,176)	2:69:B:VAL:N	2:65:B:GLY:O	3	0.39
(1,57)	2:60:B:TYR:CZ	2:63:B:TRP:CD1	4	0.39
(6,241)	2:95:B:CYS:SG	2:77:B:GLY:H	4	0.38
(6,26)	1:5:A:ILE:CG1	1:58:A:ILE:H	8	0.38
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD11	9	0.38
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD12	9	0.38
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD13	9	0.38
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD11	9	0.38
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD12	9	0.38
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD13	9	0.38
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD11	9	0.38
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD12	9	0.38
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD13	9	0.38
(3,175)	2:65:B:GLY:O	2:69:B:VAL:H	4	0.38
(1,55)	2:63:B:TRP:CD1	2:64:B:SER:CB	3	0.38
(1,55)	2:63:B:TRP:CD1	2:64:B:SER:CB	4	0.38
(6,354)	2:39:B:CYS:SG	1:42:A:ALA:H	10	0.37
(6,351)	2:39:B:CYS:SG	1:38:A:ILE:H	1	0.37
(6,146)	2:39:B:CYS:SG	2:26:B:GLY:H	10	0.37
(1,63)	2:14:B:GLU:CA	2:63:B:TRP:CE3	1	0.37
(1,12)	1:27:A:PHE:CD2	1:36:A:THR:CA	7	0.37
(6,625)	1:41:A:CYS:SG	1:31:A:TRP:H	3	0.36
(6,533)	2:41:B:CYS:SG	1:39:A:CYS:H	8	0.36
(6,149)	2:39:B:CYS:SG	2:29:B:ARG:H	2	0.36
(6,146)	2:39:B:CYS:SG	2:26:B:GLY:H	8	0.36
(6,122)	2:5:B:ILE:CG1	2:104:B:LEU:H	10	0.36
(6,66)	1:95:A:CYS:SG	1:87:A:ALA:H	4	0.36
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD11	7	0.35
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD12	7	0.35
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD13	7	0.35
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD21	7	0.35
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD22	7	0.35
(6,824)	2:95:B:CYS:SG	1:85:A:LEU:HD23	7	0.35
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD11	1	0.35
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD12	1	0.35
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD13	1	0.35
(6,673)	2:5:B:ILE:CG1	2:71:B:ILE:HD11	1	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,673)	2:5:B:ILE:CG1	2:71:B:ILE:HD12	1	0.35
(6,673)	2:5:B:ILE:CG1	2:71:B:ILE:HD13	1	0.35
(6,533)	2:41:B:CYS:SG	1:39:A:CYS:H	3	0.35
(6,470)	2:41:B:CYS:SG	2:27:B:PHE:H	8	0.35
(6,355)	2:39:B:CYS:SG	1:43:A:SER:H	10	0.35
(6,149)	2:39:B:CYS:SG	2:29:B:ARG:H	8	0.35
(6,62)	1:95:A:CYS:SG	1:77:A:GLY:H	2	0.35
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD11	2	0.35
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD12	2	0.35
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD13	2	0.35
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD11	2	0.35
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD12	2	0.35
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD13	2	0.35
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD11	2	0.35
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD12	2	0.35
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD13	2	0.35
(1,1)	1:63:A:TRP:HZ3	2:63:B:TRP:HH2	6	0.35
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD11	2	0.34
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD12	2	0.34
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD13	2	0.34
(6,476)	2:41:B:CYS:SG	2:47:B:LEU:H	10	0.34
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD11	3	0.34
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD12	3	0.34
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD13	3	0.34
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD21	3	0.34
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD22	3	0.34
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD23	3	0.34
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD11	3	0.34
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD12	3	0.34
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD13	3	0.34
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD21	3	0.34
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD22	3	0.34
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD23	3	0.34
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD11	3	0.34
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD12	3	0.34
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD13	3	0.34
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD21	3	0.34
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD22	3	0.34
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD23	3	0.34
(3,176)	2:69:B:VAL:N	2:65:B:GLY:O	4	0.34
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD11	7	0.33
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD12	7	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD13	7	0.33
(1,1)	1:63:A:TRP:HZ3	2:63:B:TRP:HH2	8	0.33
(6,363)	2:39:B:CYS:SG	1:60:A:TYR:H	6	0.32
(6,124)	2:5:B:ILE:CG1	2:106:B:ARG:H	1	0.32
(6,94)	2:5:B:ILE:CG1	2:53:B:TYR:H	4	0.32
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD11	9	0.32
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD12	9	0.32
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD13	9	0.32
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD11	9	0.32
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD12	9	0.32
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD13	9	0.32
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD11	9	0.32
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD12	9	0.32
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD13	9	0.32
(6,146)	2:39:B:CYS:SG	2:26:B:GLY:H	6	0.31
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD11	2	0.3
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD12	2	0.3
(6,813)	2:95:B:CYS:SG	1:71:A:ILE:HD13	2	0.3
(6,621)	1:41:A:CYS:SG	1:26:A:GLY:H	4	0.3
(6,520)	2:41:B:CYS:SG	1:11:A:ILE:H	8	0.3
(6,476)	2:41:B:CYS:SG	2:47:B:LEU:H	1	0.3
(6,476)	2:41:B:CYS:SG	2:47:B:LEU:H	6	0.3
(6,260)	2:95:B:CYS:SG	2:110:B:HIS:H	2	0.3
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD11	5	0.3
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD12	5	0.3
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD13	5	0.3
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD11	5	0.3
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD12	5	0.3
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD13	5	0.3
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD11	5	0.3
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD12	5	0.3
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD13	5	0.3
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD11	10	0.3
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD12	10	0.3
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD13	10	0.3
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD11	10	0.3
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD12	10	0.3
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD13	10	0.3
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD11	10	0.3
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD12	10	0.3
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD13	10	0.3
(3,175)	2:65:B:GLY:O	2:69:B:VAL:H	1	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,175)	2:65:B:GLY:O	2:69:B:VAL:H	2	0.3
(1,18)	1:11:A:ILE:CB	1:63:A:TRP:CE3	1	0.3
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD11	7	0.29
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD12	7	0.29
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD13	7	0.29
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD21	7	0.29
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD22	7	0.29
(6,771)	1:41:A:CYS:SG	2:30:B:LEU:HD23	7	0.29
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD11	5	0.29
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD12	5	0.29
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD13	5	0.29
(6,476)	2:41:B:CYS:SG	2:47:B:LEU:H	7	0.29
(6,120)	2:5:B:ILE:CG1	2:102:B:ASN:H	10	0.29
(6,94)	2:5:B:ILE:CG1	2:53:B:TYR:H	9	0.29
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD11	3	0.28
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD12	3	0.28
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD13	3	0.28
(6,658)	1:5:A:ILE:CG1	1:58:A:ILE:HD11	8	0.28
(6,658)	1:5:A:ILE:CG1	1:58:A:ILE:HD12	8	0.28
(6,658)	1:5:A:ILE:CG1	1:58:A:ILE:HD13	8	0.28
(6,625)	1:41:A:CYS:SG	1:31:A:TRP:H	1	0.28
(6,49)	1:95:A:CYS:SG	1:22:A:LYS:H	10	0.28
(3,176)	2:69:B:VAL:N	2:65:B:GLY:O	2	0.28
(1,63)	2:14:B:GLU:CA	2:63:B:TRP:CE3	8	0.28
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD11	3	0.27
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD12	3	0.27
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD13	3	0.27
(6,520)	2:41:B:CYS:SG	1:11:A:ILE:H	2	0.27
(6,453)	2:95:B:CYS:SG	1:104:A:LEU:H	9	0.27
(6,149)	2:39:B:CYS:SG	2:29:B:ARG:H	6	0.27
(6,49)	1:95:A:CYS:SG	1:22:A:LYS:H	2	0.27
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD11	5	0.27
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD12	5	0.27
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD13	5	0.27
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD11	5	0.27
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD12	5	0.27
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD13	5	0.27
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD11	5	0.27
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD12	5	0.27
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD13	5	0.27
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD11	9	0.27
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD12	9	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD13	9	0.27
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD21	9	0.27
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD22	9	0.27
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD23	9	0.27
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD11	9	0.27
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD12	9	0.27
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD13	9	0.27
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD21	9	0.27
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD22	9	0.27
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD23	9	0.27
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD11	9	0.27
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD12	9	0.27
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD13	9	0.27
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD21	9	0.27
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD22	9	0.27
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD23	9	0.27
(1,57)	2:60:B:TYR:CZ	2:63:B:TRP:CD1	2	0.27
(1,57)	2:60:B:TYR:CZ	2:63:B:TRP:CD1	6	0.27
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD11	9	0.26
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD12	9	0.26
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD13	9	0.26
(6,315)	2:5:B:ILE:CG1	1:83:A:LEU:H	10	0.26
(6,149)	2:39:B:CYS:SG	2:29:B:ARG:H	4	0.26
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD11	3	0.26
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD12	3	0.26
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD13	3	0.26
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD21	3	0.26
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD22	3	0.26
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD23	3	0.26
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD11	3	0.26
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD12	3	0.26
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD13	3	0.26
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD21	3	0.26
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD22	3	0.26
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD23	3	0.26
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD11	3	0.26
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD12	3	0.26
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD13	3	0.26
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD21	3	0.26
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD22	3	0.26
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD23	3	0.26
(3,191)	2:73:B:LEU:O	2:77:B:GLY:H	2	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,175)	2:65:B:GLY:O	2:69:B:VAL:H	9	0.26
(6,476)	2:41:B:CYS:SG	2:47:B:LEU:H	4	0.25
(6,169)	2:39:B:CYS:SG	2:64:B:SER:H	8	0.25
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD11	1	0.25
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD12	1	0.25
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD13	1	0.25
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD11	1	0.25
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD12	1	0.25
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD13	1	0.25
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD11	1	0.25
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD12	1	0.25
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD13	1	0.25
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD11	5	0.25
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD12	5	0.25
(5,30)	2:58:B:ILE:HD11	2:100:B:ILE:HD13	5	0.25
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD11	5	0.25
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD12	5	0.25
(5,30)	2:58:B:ILE:HD12	2:100:B:ILE:HD13	5	0.25
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD11	5	0.25
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD12	5	0.25
(5,30)	2:58:B:ILE:HD13	2:100:B:ILE:HD13	5	0.25
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD11	10	0.25
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD12	10	0.25
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD13	10	0.25
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD21	10	0.25
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD22	10	0.25
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD23	10	0.25
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD11	10	0.25
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD12	10	0.25
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD13	10	0.25
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD21	10	0.25
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD22	10	0.25
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD23	10	0.25
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD11	10	0.25
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD12	10	0.25
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD13	10	0.25
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD21	10	0.25
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD22	10	0.25
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD23	10	0.25
(1,21)	1:11:A:ILE:CG2	1:63:A:TRP:CE3	3	0.25
(1,12)	1:27:A:PHE:CD2	1:36:A:THR:CA	2	0.25
(6,621)	1:41:A:CYS:SG	1:26:A:GLY:H	2	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,609)	1:41:A:CYS:SG	2:110:B:HIS:H	6	0.24
(6,174)	2:39:B:CYS:SG	2:68:B:ILE:H	8	0.24
(6,58)	1:95:A:CYS:SG	1:61:A:ALA:H	1	0.24
(3,176)	2:69:B:VAL:N	2:65:B:GLY:O	1	0.24
(3,176)	2:69:B:VAL:N	2:65:B:GLY:O	9	0.24
(1,57)	2:60:B:TYR:CZ	2:63:B:TRP:CD1	7	0.24
(1,57)	2:60:B:TYR:CZ	2:63:B:TRP:CD1	10	0.24
(1,12)	1:27:A:PHE:CD2	1:36:A:THR:CA	4	0.24
(1,8)	1:94:A:ILE:CB	2:97:B:GLY:CA	4	0.24
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG11	3	0.23
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG12	3	0.23
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG13	3	0.23
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG21	3	0.23
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG22	3	0.23
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG23	3	0.23
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD11	1	0.23
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD12	1	0.23
(6,735)	2:39:B:CYS:SG	1:94:A:ILE:HD13	1	0.23
(6,638)	1:41:A:CYS:SG	1:71:A:ILE:H	8	0.23
(6,453)	2:95:B:CYS:SG	1:104:A:LEU:H	6	0.23
(3,67)	1:65:A:GLY:O	1:69:A:VAL:H	9	0.23
(1,57)	2:60:B:TYR:CZ	2:63:B:TRP:CD1	8	0.23
(1,18)	1:11:A:ILE:CB	1:63:A:TRP:CE3	10	0.23
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD11	3	0.22
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD12	3	0.22
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD13	3	0.22
(6,621)	1:41:A:CYS:SG	1:26:A:GLY:H	7	0.22
(6,815)	2:95:B:CYS:SG	1:58:A:ILE:HD11	8	0.21
(6,815)	2:95:B:CYS:SG	1:58:A:ILE:HD12	8	0.21
(6,815)	2:95:B:CYS:SG	1:58:A:ILE:HD13	8	0.21
(6,570)	1:41:A:CYS:SG	2:28:B:THR:H	4	0.21
(6,62)	1:95:A:CYS:SG	1:77:A:GLY:H	7	0.21
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD11	10	0.21
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD12	10	0.21
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD13	10	0.21
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD21	10	0.21
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD22	10	0.21
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD23	10	0.21
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD11	10	0.21
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD12	10	0.21
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD13	10	0.21
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD21	10	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD22	10	0.21
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD23	10	0.21
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD11	10	0.21
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD12	10	0.21
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD13	10	0.21
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD21	10	0.21
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD22	10	0.21
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD23	10	0.21
(3,159)	2:45:B:TRP:O	2:49:B:GLN:H	6	0.21
(1,63)	2:14:B:GLU:CA	2:63:B:TRP:CE3	7	0.21
(1,8)	1:94:A:ILE:CB	2:97:B:GLY:CA	3	0.21
(6,480)	2:41:B:CYS:SG	2:53:B:TYR:H	2	0.2
(6,476)	2:41:B:CYS:SG	2:47:B:LEU:H	3	0.2
(3,175)	2:65:B:GLY:O	2:69:B:VAL:H	6	0.2
(3,68)	1:69:A:VAL:N	1:65:A:GLY:O	9	0.2
(1,57)	2:60:B:TYR:CZ	2:63:B:TRP:CD1	9	0.2
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD11	4	0.19
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD12	4	0.19
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD13	4	0.19
(6,355)	2:39:B:CYS:SG	1:43:A:SER:H	4	0.19
(6,58)	1:95:A:CYS:SG	1:61:A:ALA:H	7	0.19
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD11	1	0.19
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD12	1	0.19
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD13	1	0.19
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD11	1	0.19
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD12	1	0.19
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD13	1	0.19
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD11	1	0.19
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD12	1	0.19
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD13	1	0.19
(3,176)	2:69:B:VAL:N	2:65:B:GLY:O	6	0.19
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD11	7	0.18
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD12	7	0.18
(6,669)	2:5:B:ILE:CG1	2:68:B:ILE:HD13	7	0.18
(6,476)	2:41:B:CYS:SG	2:47:B:LEU:H	8	0.18
(6,351)	2:39:B:CYS:SG	1:38:A:ILE:H	10	0.18
(6,94)	2:5:B:ILE:CG1	2:53:B:TYR:H	2	0.18
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD11	8	0.18
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD12	8	0.18
(5,12)	1:89:A:ILE:HD11	1:88:A:ILE:HD13	8	0.18
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD11	8	0.18
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD12	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,12)	1:89:A:ILE:HD12	1:88:A:ILE:HD13	8	0.18
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD11	8	0.18
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD12	8	0.18
(5,12)	1:89:A:ILE:HD13	1:88:A:ILE:HD13	8	0.18
(1,12)	1:27:A:PHE:CD2	1:36:A:THR:CA	3	0.18
(1,1)	1:63:A:TRP:HZ3	2:63:B:TRP:HH2	9	0.18
(6,49)	1:95:A:CYS:SG	1:22:A:LYS:H	8	0.17
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD11	1	0.17
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD12	1	0.17
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD13	1	0.17
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD21	1	0.17
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD22	1	0.17
(5,49)	2:89:B:ILE:HD11	1:104:A:LEU:HD23	1	0.17
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD11	1	0.17
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD12	1	0.17
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD13	1	0.17
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD21	1	0.17
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD22	1	0.17
(5,49)	2:89:B:ILE:HD12	1:104:A:LEU:HD23	1	0.17
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD11	1	0.17
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD12	1	0.17
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD13	1	0.17
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD21	1	0.17
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD22	1	0.17
(5,49)	2:89:B:ILE:HD13	1:104:A:LEU:HD23	1	0.17
(3,191)	2:73:B:LEU:O	2:77:B:GLY:H	10	0.17
(3,63)	1:63:A:TRP:O	1:67:A:GLY:H	5	0.17
(1,9)	2:94:B:ILE:CB	1:97:A:GLY:CA	5	0.17
(1,1)	1:63:A:TRP:HZ3	2:63:B:TRP:HH2	3	0.17
(6,533)	2:41:B:CYS:SG	1:39:A:CYS:H	2	0.16
(6,476)	2:41:B:CYS:SG	2:47:B:LEU:H	5	0.16
(6,464)	2:41:B:CYS:SG	2:13:B:ALA:H	10	0.16
(6,350)	2:39:B:CYS:SG	1:37:A:ILE:H	8	0.16
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD11	6	0.16
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD12	6	0.16
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD13	6	0.16
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD21	6	0.16
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD22	6	0.16
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD23	6	0.16
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD11	6	0.16
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD12	6	0.16
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD13	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD21	6	0.16
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD22	6	0.16
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD23	6	0.16
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD11	6	0.16
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD12	6	0.16
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD13	6	0.16
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD21	6	0.16
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD22	6	0.16
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD23	6	0.16
(3,67)	1:65:A:GLY:O	1:69:A:VAL:H	6	0.16
(6,453)	2:95:B:CYS:SG	1:104:A:LEU:H	3	0.15
(6,354)	2:39:B:CYS:SG	1:42:A:ALA:H	4	0.15
(6,149)	2:39:B:CYS:SG	2:29:B:ARG:H	1	0.15
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD11	5	0.15
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD12	5	0.15
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD13	5	0.15
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD21	5	0.15
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD22	5	0.15
(5,48)	1:89:A:ILE:HD11	2:104:B:LEU:HD23	5	0.15
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD11	5	0.15
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD12	5	0.15
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD13	5	0.15
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD21	5	0.15
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD22	5	0.15
(5,48)	1:89:A:ILE:HD12	2:104:B:LEU:HD23	5	0.15
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD11	5	0.15
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD12	5	0.15
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD13	5	0.15
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD21	5	0.15
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD22	5	0.15
(5,48)	1:89:A:ILE:HD13	2:104:B:LEU:HD23	5	0.15
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD11	10	0.15
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD12	10	0.15
(5,35)	2:68:B:ILE:HD11	2:94:B:ILE:HD13	10	0.15
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD11	10	0.15
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD12	10	0.15
(5,35)	2:68:B:ILE:HD12	2:94:B:ILE:HD13	10	0.15
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD11	10	0.15
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD12	10	0.15
(5,35)	2:68:B:ILE:HD13	2:94:B:ILE:HD13	10	0.15
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD11	8	0.15
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD12	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD13	8	0.15
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD21	8	0.15
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD22	8	0.15
(5,5)	1:58:A:ILE:HD11	1:103:A:LEU:HD23	8	0.15
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD11	8	0.15
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD12	8	0.15
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD13	8	0.15
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD21	8	0.15
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD22	8	0.15
(5,5)	1:58:A:ILE:HD12	1:103:A:LEU:HD23	8	0.15
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD11	8	0.15
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD12	8	0.15
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD13	8	0.15
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD21	8	0.15
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD22	8	0.15
(5,5)	1:58:A:ILE:HD13	1:103:A:LEU:HD23	8	0.15
(3,175)	2:65:B:GLY:O	2:69:B:VAL:H	7	0.15
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD11	1	0.14
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD12	1	0.14
(6,698)	2:5:B:ILE:CG1	1:94:A:ILE:HD13	1	0.14
(6,520)	2:41:B:CYS:SG	1:11:A:ILE:H	1	0.14
(6,464)	2:41:B:CYS:SG	2:13:B:ALA:H	9	0.14
(6,125)	2:5:B:ILE:CG1	2:108:B:THR:H	8	0.14
(6,124)	2:5:B:ILE:CG1	2:106:B:ARG:H	9	0.14
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD11	9	0.14
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD12	9	0.14
(5,7)	1:68:A:ILE:HD11	1:94:A:ILE:HD13	9	0.14
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD11	9	0.14
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD12	9	0.14
(5,7)	1:68:A:ILE:HD12	1:94:A:ILE:HD13	9	0.14
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD11	9	0.14
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD12	9	0.14
(5,7)	1:68:A:ILE:HD13	1:94:A:ILE:HD13	9	0.14
(3,176)	2:69:B:VAL:N	2:65:B:GLY:O	7	0.14
(1,58)	2:60:B:TYR:CB	2:63:B:TRP:CD1	6	0.14
(1,58)	2:60:B:TYR:CB	2:63:B:TRP:CD1	7	0.14
(1,55)	2:63:B:TRP:CD1	2:64:B:SER:CB	6	0.14
(1,18)	1:11:A:ILE:CB	1:63:A:TRP:CE3	8	0.14
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG11	2	0.13
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG12	2	0.13
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG13	2	0.13
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG21	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG22	2	0.13
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG23	2	0.13
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG11	7	0.13
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG12	7	0.13
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG13	7	0.13
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG21	7	0.13
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG22	7	0.13
(6,755)	2:41:B:CYS:SG	1:69:A:VAL:HG23	7	0.13
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD11	5	0.13
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD12	5	0.13
(6,733)	2:39:B:CYS:SG	1:101:A:ILE:HD13	5	0.13
(3,83)	1:73:A:LEU:O	1:77:A:GLY:H	10	0.13
(1,58)	2:60:B:TYR:CB	2:63:B:TRP:CD1	10	0.13
(1,13)	1:27:A:PHE:CG	1:36:A:THR:CA	5	0.13
(6,673)	2:5:B:ILE:CG1	2:71:B:ILE:HD11	2	0.12
(6,673)	2:5:B:ILE:CG1	2:71:B:ILE:HD12	2	0.12
(6,673)	2:5:B:ILE:CG1	2:71:B:ILE:HD13	2	0.12
(6,621)	1:41:A:CYS:SG	1:26:A:GLY:H	3	0.12
(6,128)	2:39:B:CYS:SG	2:2:B:ASN:H	5	0.12
(6,124)	2:5:B:ILE:CG1	2:106:B:ARG:H	5	0.12
(3,68)	1:69:A:VAL:N	1:65:A:GLY:O	6	0.12
(3,67)	1:65:A:GLY:O	1:69:A:VAL:H	8	0.12
(1,58)	2:60:B:TYR:CB	2:63:B:TRP:CD1	5	0.12
(1,15)	1:10:A:ALA:CB	1:63:A:TRP:CE3	3	0.12
(6,793)	2:95:B:CYS:SG	2:58:B:ILE:HD11	1	0.11
(6,793)	2:95:B:CYS:SG	2:58:B:ILE:HD12	1	0.11
(6,793)	2:95:B:CYS:SG	2:58:B:ILE:HD13	1	0.11
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD11	2	0.11
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD12	2	0.11
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD13	2	0.11
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD21	2	0.11
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD22	2	0.11
(6,718)	2:39:B:CYS:SG	2:30:B:LEU:HD23	2	0.11
(6,520)	2:41:B:CYS:SG	1:11:A:ILE:H	7	0.11
(6,476)	2:41:B:CYS:SG	2:47:B:LEU:H	9	0.11
(6,470)	2:41:B:CYS:SG	2:27:B:PHE:H	9	0.11
(6,241)	2:95:B:CYS:SG	2:77:B:GLY:H	3	0.11
(6,169)	2:39:B:CYS:SG	2:64:B:SER:H	2	0.11
(1,57)	2:60:B:TYR:CZ	2:63:B:TRP:CD1	3	0.11
(1,55)	2:63:B:TRP:CD1	2:64:B:SER:CB	10	0.11
(6,149)	2:39:B:CYS:SG	2:29:B:ARG:H	5	0.1
(6,58)	1:95:A:CYS:SG	1:61:A:ALA:H	3	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,171)	2:63:B:TRP:O	2:67:B:GLY:H	2	0.1

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

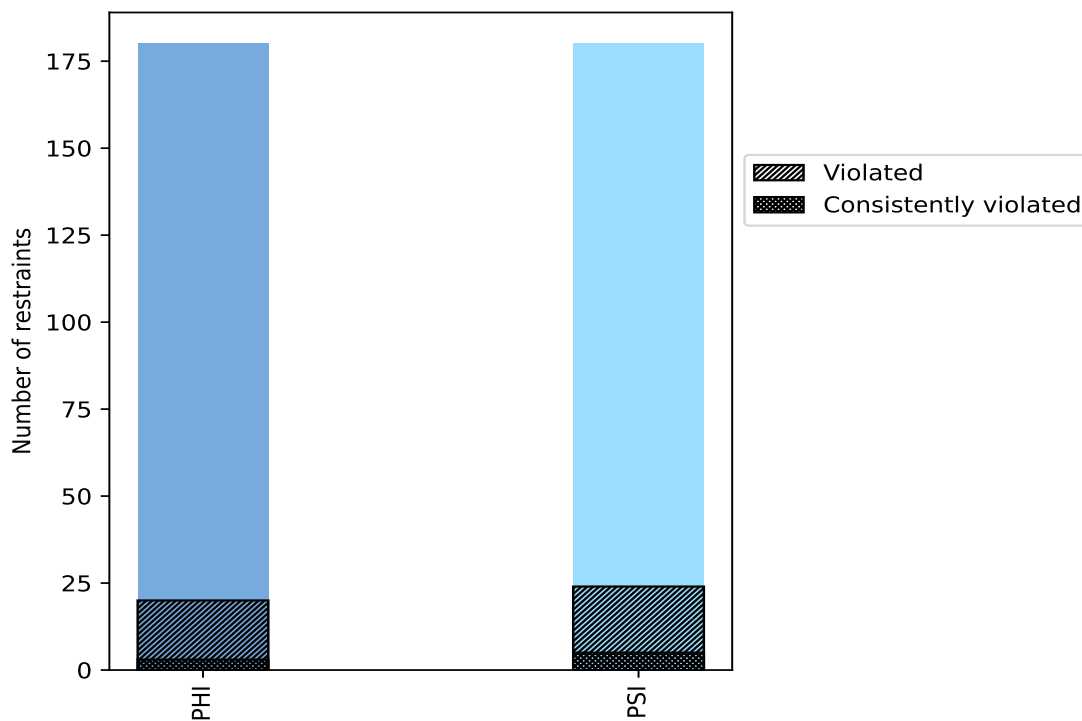
10.1 Summary of dihedral-angle violations [i](#)

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	180	50.0	20	11.1	5.6	3	1.7	0.8
PSI	180	50.0	24	13.3	6.7	5	2.8	1.4
Total	360	100.0	44	12.2	12.2	8	2.2	2.2

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

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



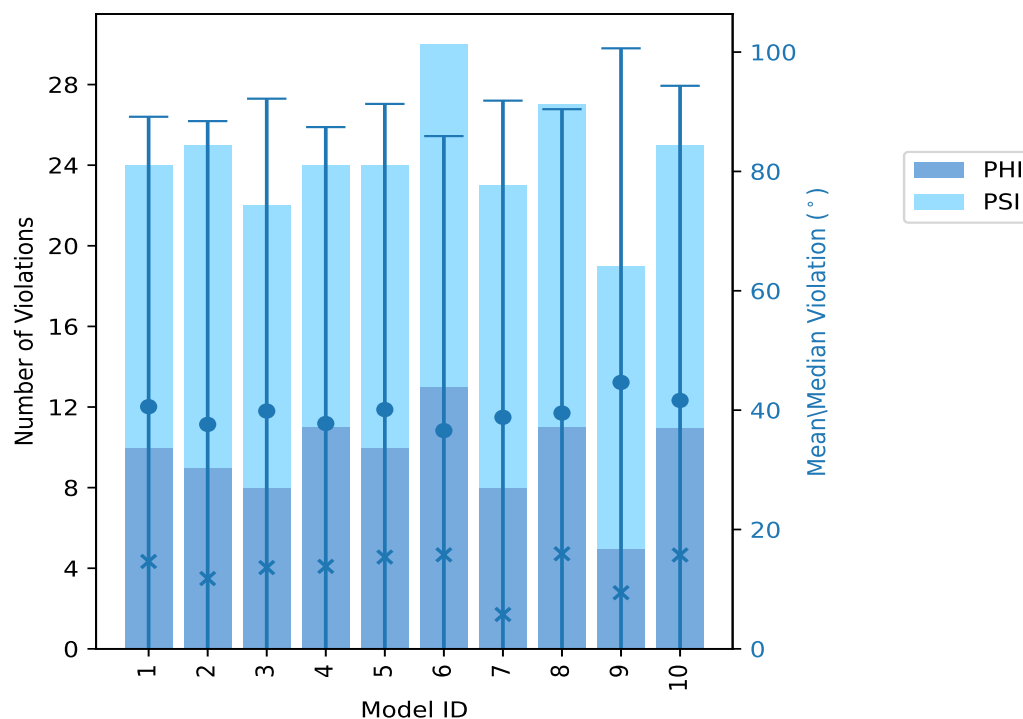
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PHI	PSI	Total				
1	10	14	24	40.58	154.12	48.58	14.64
2	9	16	25	37.61	154.59	50.82	11.78
3	8	14	22	39.85	155.0	52.34	13.62
4	11	13	24	37.76	150.15	49.67	13.82
5	10	14	24	40.09	157.24	51.22	15.38
6	13	17	30	36.57	157.84	49.35	15.76
7	8	15	23	38.8	149.26	53.06	5.76
8	11	16	27	39.51	158.98	50.92	15.93
9	5	14	19	44.65	156.9	55.98	9.41
10	11	14	25	41.63	155.03	52.72	15.73

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



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

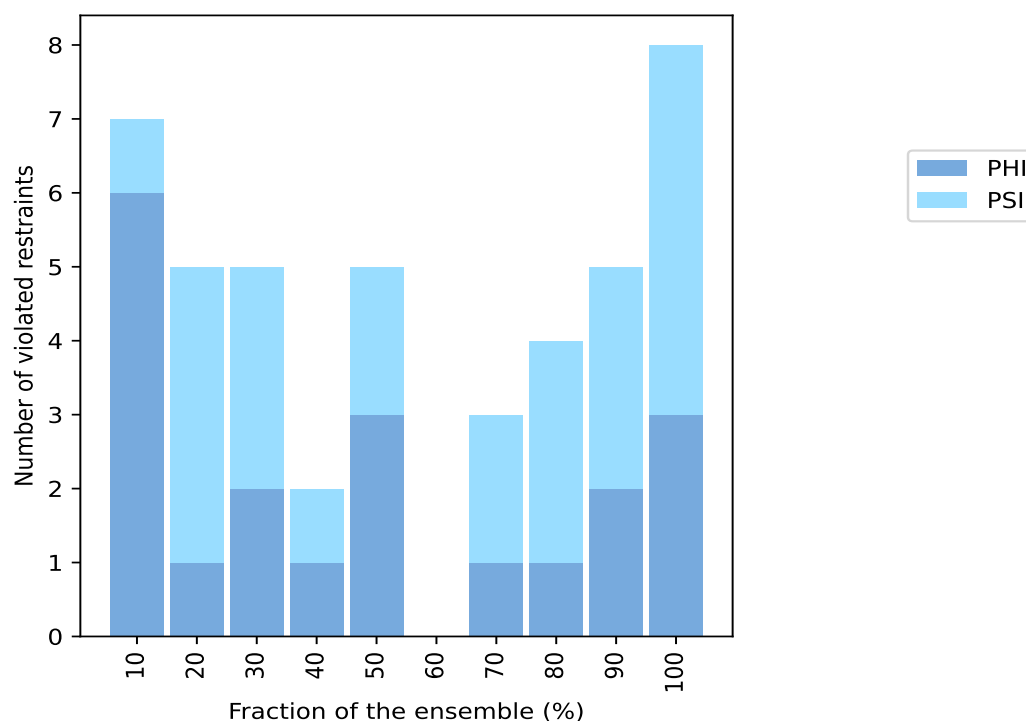
10.3 Dihedral-angle violation statistics for the ensemble [i](#)

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

Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
6	1	7	1	10.0
1	4	5	2	20.0
2	3	5	3	30.0
1	1	2	4	40.0
3	2	5	5	50.0
0	0	0	6	60.0
1	2	3	7	70.0
1	3	4	8	80.0
2	3	5	9	90.0
3	5	8	10	100.0

¹ Number of models with violations

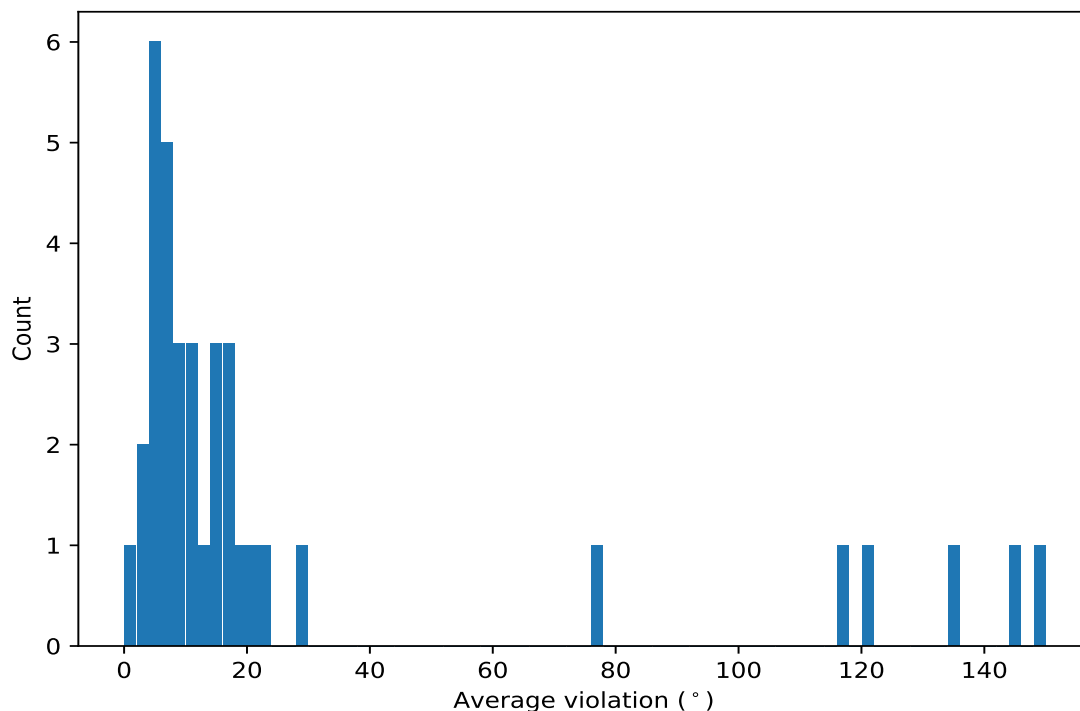
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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
(1,172)	1:105:A:SER:N	1:105:A:SER:CA	1:105:A:SER:C	1:106:A:ARG:N	10	149.5	15.19	155.01
(1,174)	1:106:A:ARG:N	1:106:A:ARG:CA	1:106:A:ARG:C	1:107:A:SER:N	10	144.41	4.86	145.74
(1,216)	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	2:25:B:GLU:N	10	135.87	10.72	137.44
(1,311)	2:77:B:GLY:C	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	10	120.7	5.26	121.78
(1,360)	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	2:108:B:THR:N	10	116.77	38.86	128.08
(1,312)	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	2:79:B:PHE:N	10	77.33	15.82	78.52
(1,1)	1:1:A:MET:C	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	10	29.18	10.32	32.3
(1,267)	2:54:B:ILE:C	2:55:B:PRO:N	2:55:B:PRO:CA	2:55:B:PRO:C	10	6.64	1.43	6.82
(1,169)	1:103:A:LEU:C	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	9	15.67	4.17	16.62
(1,130)	1:81:A:GLN:N	1:81:A:GLN:CA	1:81:A:GLN:C	1:82:A:ARG:N	9	14.92	7.53	14.43
(1,86)	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	1:50:A:THR:N	9	6.57	1.61	6.28
(1,213)	2:22:B:LYS:C	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	9	5.7	3.54	4.88
(1,266)	2:54:B:ILE:N	2:54:B:ILE:CA	2:54:B:ILE:C	2:55:B:PRO:N	9	5.11	1.71	4.22

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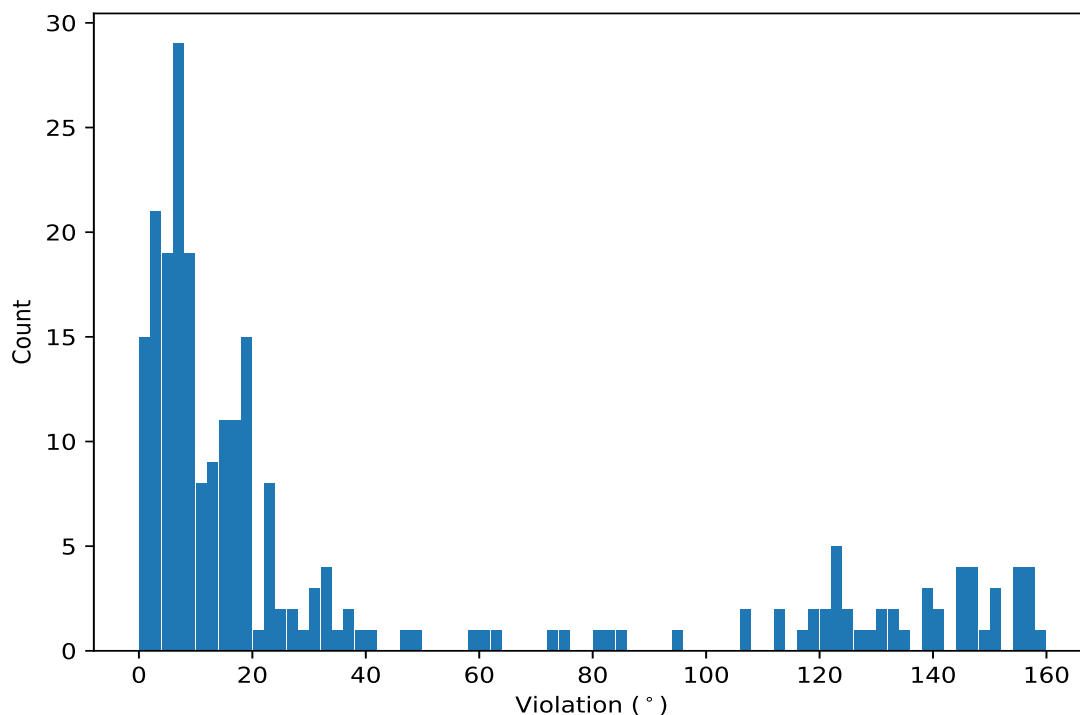
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,214)	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	2:24:B:SER:N	8	23.59	5.33	22.58
(1,359)	2:106:B:ARG:C	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	8	20.5	14.96	21.02
(1,170)	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	1:105:A:SER:N	8	16.46	1.85	15.83
(1,126)	1:78:A:PHE:N	1:78:A:PHE:CA	1:78:A:PHE:C	1:79:A:PHE:N	8	10.5	6.68	9.82
(1,355)	2:104:B:LEU:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	7	17.29	6.83	17.63
(1,264)	2:53:B:TYR:N	2:53:B:TYR:CA	2:53:B:TYR:C	2:54:B:ILE:N	7	16.56	10.05	17.35
(1,124)	1:77:A:GLY:N	1:77:A:GLY:CA	1:77:A:GLY:C	1:78:A:PHE:N	7	7.07	5.56	6.8
(1,215)	2:23:B:PHE:C	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	5	15.11	7.51	17.79
(1,351)	2:102:B:ASN:C	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	5	9.98	1.78	9.69
(1,46)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:GLU:N	5	6.29	1.52	6.9
(1,136)	1:84:A:ASP:N	1:84:A:ASP:CA	1:84:A:ASP:C	1:85:A:LEU:N	5	6.22	2.5	6.21
(1,85)	1:48:A:ALA:C	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	5	2.07	0.32	2.17
(1,125)	1:77:A:GLY:C	1:78:A:PHE:N	1:78:A:PHE:CA	1:78:A:PHE:C	4	9.19	1.06	8.84
(1,352)	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	2:104:B:LEU:N	4	5.24	3.08	5.18
(1,218)	2:30:B:LEU:N	2:30:B:LEU:CA	2:30:B:LEU:C	2:31:B:TRP:N	3	13.19	1.01	13.7
(1,354)	2:104:B:LEU:N	2:104:B:LEU:CA	2:104:B:LEU:C	2:105:B:SER:N	3	5.4	1.77	5.95
(1,265)	2:53:B:TYR:C	2:54:B:ILE:N	2:54:B:ILE:CA	2:54:B:ILE:C	3	4.31	1.81	3.19
(1,45)	1:23:A:PHE:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	3	3.48	1.65	4.01
(1,168)	1:103:A:LEU:N	1:103:A:LEU:CA	1:103:A:LEU:C	1:104:A:LEU:N	3	1.98	0.33	2.2
(1,310)	2:76:B:TRP:N	2:76:B:TRP:CA	2:76:B:TRP:C	2:77:B:GLY:N	2	19.7	3.34	19.7
(1,262)	2:52:B:ALA:N	2:52:B:ALA:CA	2:52:B:ALA:C	2:53:B:TYR:N	2	10.23	8.76	10.23
(1,356)	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	2:106:B:ARG:N	2	10.14	3.64	10.14
(1,309)	2:75:B:SER:C	2:76:B:TRP:N	2:76:B:TRP:CA	2:76:B:TRP:C	2	8.14	1.98	8.14
(1,2)	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	1:3:A:PRO:N	2	4.71	2.57	4.71

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

10.5 All violated dihedral-angle restraints

10.5.1 Histogram : Distribution of violations

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 (°)
(1,172)	1:105:A:SER:N	1:105:A:SER:CA	1:105:A:SER:C	1:106:A:ARG:N	8	158.98
(1,172)	1:105:A:SER:N	1:105:A:SER:CA	1:105:A:SER:C	1:106:A:ARG:N	6	157.84
(1,360)	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	2:108:B:THR:N	6	157.31
(1,172)	1:105:A:SER:N	1:105:A:SER:CA	1:105:A:SER:C	1:106:A:ARG:N	5	157.24
(1,172)	1:105:A:SER:N	1:105:A:SER:CA	1:105:A:SER:C	1:106:A:ARG:N	9	156.9
(1,172)	1:105:A:SER:N	1:105:A:SER:CA	1:105:A:SER:C	1:106:A:ARG:N	10	155.03
(1,172)	1:105:A:SER:N	1:105:A:SER:CA	1:105:A:SER:C	1:106:A:ARG:N	3	155.0
(1,172)	1:105:A:SER:N	1:105:A:SER:CA	1:105:A:SER:C	1:106:A:ARG:N	2	154.59
(1,172)	1:105:A:SER:N	1:105:A:SER:CA	1:105:A:SER:C	1:106:A:ARG:N	1	154.12
(1,174)	1:106:A:ARG:N	1:106:A:ARG:CA	1:106:A:ARG:C	1:107:A:SER:N	6	151.46
(1,174)	1:106:A:ARG:N	1:106:A:ARG:CA	1:106:A:ARG:C	1:107:A:SER:N	4	150.15
(1,360)	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	2:108:B:THR:N	8	150.07
(1,216)	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	2:25:B:GLU:N	7	149.26
(1,216)	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	2:25:B:GLU:N	10	146.85
(1,174)	1:106:A:ARG:N	1:106:A:ARG:CA	1:106:A:ARG:C	1:107:A:SER:N	5	146.33
(1,174)	1:106:A:ARG:N	1:106:A:ARG:CA	1:106:A:ARG:C	1:107:A:SER:N	10	146.25
(1,174)	1:106:A:ARG:N	1:106:A:ARG:CA	1:106:A:ARG:C	1:107:A:SER:N	3	146.19
(1,216)	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	2:25:B:GLU:N	9	145.58
(1,174)	1:106:A:ARG:N	1:106:A:ARG:CA	1:106:A:ARG:C	1:107:A:SER:N	8	145.29
(1,216)	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	2:25:B:GLU:N	3	145.12
(1,174)	1:106:A:ARG:N	1:106:A:ARG:CA	1:106:A:ARG:C	1:107:A:SER:N	2	144.12

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,216)	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	2:25:B:GLU:N	4	141.42
(1,174)	1:106:A:ARG:N	1:106:A:ARG:CA	1:106:A:ARG:C	1:107:A:SER:N	9	140.9
(1,360)	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	2:108:B:THR:N	10	139.59
(1,174)	1:106:A:ARG:N	1:106:A:ARG:CA	1:106:A:ARG:C	1:107:A:SER:N	7	139.16
(1,172)	1:105:A:SER:N	1:105:A:SER:CA	1:105:A:SER:C	1:106:A:ARG:N	7	138.15
(1,174)	1:106:A:ARG:N	1:106:A:ARG:CA	1:106:A:ARG:C	1:107:A:SER:N	1	134.27
(1,216)	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	2:25:B:GLU:N	5	133.45
(1,216)	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	2:25:B:GLU:N	2	132.18
(1,311)	2:77:B:GLY:C	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	10	130.95
(1,360)	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	2:108:B:THR:N	2	130.13
(1,360)	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	2:108:B:THR:N	7	129.45
(1,360)	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	2:108:B:THR:N	5	126.71
(1,360)	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	2:108:B:THR:N	4	125.72
(1,311)	2:77:B:GLY:C	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	8	124.54
(1,311)	2:77:B:GLY:C	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	3	123.99
(1,216)	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	2:25:B:GLU:N	1	123.6
(1,311)	2:77:B:GLY:C	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	7	122.34
(1,311)	2:77:B:GLY:C	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	9	122.06
(1,216)	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	2:25:B:GLU:N	6	122.03
(1,360)	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	2:108:B:THR:N	1	121.84
(1,311)	2:77:B:GLY:C	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	4	121.5
(1,311)	2:77:B:GLY:C	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	2	119.35
(1,216)	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	2:25:B:GLU:N	8	119.21
(1,311)	2:77:B:GLY:C	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	1	116.27
(1,311)	2:77:B:GLY:C	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	6	113.35
(1,311)	2:77:B:GLY:C	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	5	112.6
(1,172)	1:105:A:SER:N	1:105:A:SER:CA	1:105:A:SER:C	1:106:A:ARG:N	4	107.13
(1,312)	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	2:79:B:PHE:N	9	106.03
(1,312)	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	2:79:B:PHE:N	3	94.21
(1,312)	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	2:79:B:PHE:N	8	85.56
(1,312)	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	2:79:B:PHE:N	6	83.7
(1,312)	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	2:79:B:PHE:N	1	81.76
(1,312)	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	2:79:B:PHE:N	4	75.28
(1,312)	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	2:79:B:PHE:N	5	72.58
(1,312)	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	2:79:B:PHE:N	7	63.33
(1,312)	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	2:79:B:PHE:N	2	61.88
(1,360)	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	2:108:B:THR:N	9	59.79
(1,312)	2:78:B:PHE:N	2:78:B:PHE:CA	2:78:B:PHE:C	2:79:B:PHE:N	10	48.98
(1,1)	1:1:A:MET:C	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	10	46.2
(1,359)	2:106:B:ARG:C	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	10	40.21
(1,1)	1:1:A:MET:C	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	8	38.71
(1,1)	1:1:A:MET:C	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	7	37.67
(1,359)	2:106:B:ARG:C	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	3	37.45
(1,1)	1:1:A:MET:C	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	9	34.84
(1,214)	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	2:24:B:SER:N	5	33.22
(1,1)	1:1:A:MET:C	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	3	33.21
(1,264)	2:53:B:TYR:N	2:53:B:TYR:CA	2:53:B:TYR:C	2:54:B:ILE:N	8	32.57
(1,359)	2:106:B:ARG:C	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	1	32.32
(1,1)	1:1:A:MET:C	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	4	31.39
(1,355)	2:104:B:LEU:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	8	30.94
(1,214)	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	2:24:B:SER:N	6	30.38

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,359)	2:106:B:ARG:C	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	6	28.83
(1,264)	2:53:B:TYR:N	2:53:B:TYR:CA	2:53:B:TYR:C	2:54:B:ILE:N	6	27.29
(1,360)	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	2:108:B:THR:N	3	27.12
(1,214)	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	2:24:B:SER:N	10	25.02
(1,130)	1:81:A:GLN:N	1:81:A:GLN:CA	1:81:A:GLN:C	1:82:A:ARG:N	6	24.67
(1,171)	1:104:A:LEU:C	1:105:A:SER:N	1:105:A:SER:CA	1:105:A:SER:C	4	23.88
(1,130)	1:81:A:GLN:N	1:81:A:GLN:CA	1:81:A:GLN:C	1:82:A:ARG:N	10	23.86
(1,215)	2:23:B:PHE:C	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	6	23.57
(1,126)	1:78:A:PHE:N	1:78:A:PHE:CA	1:78:A:PHE:C	1:79:A:PHE:N	8	23.15
(1,310)	2:76:B:TRP:N	2:76:B:TRP:CA	2:76:B:TRP:C	2:77:B:GLY:N	10	23.03
(1,214)	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	2:24:B:SER:N	7	23.03
(1,130)	1:81:A:GLN:N	1:81:A:GLN:CA	1:81:A:GLN:C	1:82:A:ARG:N	1	22.8
(1,214)	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	2:24:B:SER:N	8	22.13
(1,215)	2:23:B:PHE:C	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	8	21.57
(1,355)	2:104:B:LEU:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	1	19.98
(1,170)	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	1:105:A:SER:N	2	19.83
(1,264)	2:53:B:TYR:N	2:53:B:TYR:CA	2:53:B:TYR:C	2:54:B:ILE:N	2	19.53
(1,1)	1:1:A:MET:C	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	2	19.26
(1,170)	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	1:105:A:SER:N	5	19.07
(1,262)	2:52:B:ALA:N	2:52:B:ALA:CA	2:52:B:ALA:C	2:53:B:TYR:N	6	18.99
(1,214)	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	2:24:B:SER:N	4	18.6
(1,1)	1:1:A:MET:C	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	6	18.47
(1,355)	2:104:B:LEU:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	5	18.32
(1,169)	1:103:A:LEU:C	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	5	18.3
(1,214)	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	2:24:B:SER:N	2	18.29
(1,169)	1:103:A:LEU:C	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	8	18.24
(1,169)	1:103:A:LEU:C	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	2	18.1
(1,169)	1:103:A:LEU:C	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	10	18.07
(1,214)	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	2:24:B:SER:N	1	18.05
(1,263)	2:52:B:ALA:C	2:53:B:TYR:N	2:53:B:TYR:CA	2:53:B:TYR:C	6	17.99
(1,215)	2:23:B:PHE:C	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	7	17.79
(1,355)	2:104:B:LEU:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	7	17.63
(1,130)	1:81:A:GLN:N	1:81:A:GLN:CA	1:81:A:GLN:C	1:82:A:ARG:N	5	17.36
(1,264)	2:53:B:TYR:N	2:53:B:TYR:CA	2:53:B:TYR:C	2:54:B:ILE:N	4	17.35
(1,1)	1:1:A:MET:C	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	5	16.67
(1,169)	1:103:A:LEU:C	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	1	16.62
(1,124)	1:77:A:GLY:N	1:77:A:GLY:CA	1:77:A:GLY:C	1:78:A:PHE:N	3	16.54
(1,310)	2:76:B:TRP:N	2:76:B:TRP:CA	2:76:B:TRP:C	2:77:B:GLY:N	2	16.36
(1,170)	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	1:105:A:SER:N	6	16.06
(1,169)	1:103:A:LEU:C	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	9	16.05
(1,126)	1:78:A:PHE:N	1:78:A:PHE:CA	1:78:A:PHE:C	1:79:A:PHE:N	4	15.97
(1,170)	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	1:105:A:SER:N	8	15.93
(1,169)	1:103:A:LEU:C	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	3	15.9
(1,170)	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	1:105:A:SER:N	10	15.73
(1,170)	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	1:105:A:SER:N	9	15.64
(1,170)	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	1:105:A:SER:N	3	15.57
(1,169)	1:103:A:LEU:C	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	6	15.47
(1,1)	1:1:A:MET:C	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	1	15.43
(1,355)	2:104:B:LEU:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	10	14.97
(1,130)	1:81:A:GLN:N	1:81:A:GLN:CA	1:81:A:GLN:C	1:82:A:ARG:N	4	14.43
(1,218)	2:30:B:LEU:N	2:30:B:LEU:CA	2:30:B:LEU:C	2:31:B:TRP:N	5	14.08

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,170)	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	1:105:A:SER:N	1	13.85
(1,356)	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	2:106:B:ARG:N	8	13.77
(1,218)	2:30:B:LEU:N	2:30:B:LEU:CA	2:30:B:LEU:C	2:31:B:TRP:N	1	13.7
(1,359)	2:106:B:ARG:C	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	4	13.2
(1,126)	1:78:A:PHE:N	1:78:A:PHE:CA	1:78:A:PHE:C	1:79:A:PHE:N	5	13.14
(1,213)	2:22:B:LYS:C	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	5	13.07
(1,124)	1:77:A:GLY:N	1:77:A:GLY:CA	1:77:A:GLY:C	1:78:A:PHE:N	1	12.96
(1,130)	1:81:A:GLN:N	1:81:A:GLN:CA	1:81:A:GLN:C	1:82:A:ARG:N	7	12.79
(1,351)	2:102:B:ASN:C	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	4	12.03
(1,351)	2:102:B:ASN:C	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	1	11.92
(1,218)	2:30:B:LEU:N	2:30:B:LEU:CA	2:30:B:LEU:C	2:31:B:TRP:N	2	11.78
(1,355)	2:104:B:LEU:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	3	11.68
(1,125)	1:77:A:GLY:C	1:78:A:PHE:N	1:78:A:PHE:CA	1:78:A:PHE:C	1	10.91
(1,86)	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	1:50:A:THR:N	10	10.13
(1,309)	2:75:B:SER:C	2:76:B:TRP:N	2:76:B:TRP:CA	2:76:B:TRP:C	2	10.12
(1,126)	1:78:A:PHE:N	1:78:A:PHE:CA	1:78:A:PHE:C	1:79:A:PHE:N	10	10.06
(1,261)	2:51:B:LEU:C	2:52:B:ALA:N	2:52:B:ALA:CA	2:52:B:ALA:C	6	10.04
(1,213)	2:22:B:LYS:C	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	1	9.78
(1,130)	1:81:A:GLN:N	1:81:A:GLN:CA	1:81:A:GLN:C	1:82:A:ARG:N	2	9.74
(1,351)	2:102:B:ASN:C	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	6	9.69
(1,136)	1:84:A:ASP:N	1:84:A:ASP:CA	1:84:A:ASP:C	1:85:A:LEU:N	2	9.62
(1,126)	1:78:A:PHE:N	1:78:A:PHE:CA	1:78:A:PHE:C	1:79:A:PHE:N	1	9.57
(1,352)	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	2:104:B:LEU:N	9	9.41
(1,264)	2:53:B:TYR:N	2:53:B:TYR:CA	2:53:B:TYR:C	2:54:B:ILE:N	1	9.39
(1,125)	1:77:A:GLY:C	1:78:A:PHE:N	1:78:A:PHE:CA	1:78:A:PHE:C	10	9.15
(1,359)	2:106:B:ARG:C	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	2	8.84
(1,126)	1:78:A:PHE:N	1:78:A:PHE:CA	1:78:A:PHE:C	1:79:A:PHE:N	3	8.79
(1,351)	2:102:B:ASN:C	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	10	8.76
(1,125)	1:77:A:GLY:C	1:78:A:PHE:N	1:78:A:PHE:CA	1:78:A:PHE:C	3	8.53
(1,124)	1:77:A:GLY:N	1:77:A:GLY:CA	1:77:A:GLY:C	1:78:A:PHE:N	5	8.37
(1,266)	2:54:B:ILE:N	2:54:B:ILE:CA	2:54:B:ILE:C	2:55:B:PRO:N	2	8.36
(1,125)	1:77:A:GLY:C	1:78:A:PHE:N	1:78:A:PHE:CA	1:78:A:PHE:C	5	8.16
(1,267)	2:54:B:ILE:C	2:55:B:PRO:N	2:55:B:PRO:CA	2:55:B:PRO:C	3	8.15
(1,215)	2:23:B:PHE:C	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	5	8.15
(1,46)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:GLU:N	6	8.04
(1,267)	2:54:B:ILE:C	2:55:B:PRO:N	2:55:B:PRO:CA	2:55:B:PRO:C	4	8.0
(1,267)	2:54:B:ILE:C	2:55:B:PRO:N	2:55:B:PRO:CA	2:55:B:PRO:C	9	7.71
(1,267)	2:54:B:ILE:C	2:55:B:PRO:N	2:55:B:PRO:CA	2:55:B:PRO:C	8	7.61
(1,355)	2:104:B:LEU:C	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	6	7.53
(1,136)	1:84:A:ASP:N	1:84:A:ASP:CA	1:84:A:ASP:C	1:85:A:LEU:N	6	7.5
(1,46)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:GLU:N	9	7.49
(1,351)	2:102:B:ASN:C	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	8	7.48
(1,213)	2:22:B:LYS:C	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	8	7.47
(1,86)	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	1:50:A:THR:N	1	7.44
(1,86)	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	1:50:A:THR:N	4	7.35
(1,2)	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	1:3:A:PRO:N	6	7.28
(1,354)	2:104:B:LEU:N	2:104:B:LEU:CA	2:104:B:LEU:C	2:105:B:SER:N	8	7.23
(1,86)	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	1:50:A:THR:N	6	7.14
(1,46)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:GLU:N	8	6.9
(1,265)	2:53:B:TYR:C	2:54:B:ILE:N	2:54:B:ILE:CA	2:54:B:ILE:C	6	6.86
(1,267)	2:54:B:ILE:C	2:55:B:PRO:N	2:55:B:PRO:CA	2:55:B:PRO:C	1	6.84

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,267)	2:54:B:ILE:C	2:55:B:PRO:N	2:55:B:PRO:CA	2:55:B:PRO:C	5	6.8
(1,124)	1:77:A:GLY:N	1:77:A:GLY:CA	1:77:A:GLY:C	1:78:A:PHE:N	8	6.8
(1,267)	2:54:B:ILE:C	2:55:B:PRO:N	2:55:B:PRO:CA	2:55:B:PRO:C	2	6.72
(1,352)	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	2:104:B:LEU:N	3	6.63
(1,266)	2:54:B:ILE:N	2:54:B:ILE:CA	2:54:B:ILE:C	2:55:B:PRO:N	10	6.6
(1,130)	1:81:A:GLN:N	1:81:A:GLN:CA	1:81:A:GLN:C	1:82:A:ARG:N	9	6.59
(1,267)	2:54:B:ILE:C	2:55:B:PRO:N	2:55:B:PRO:CA	2:55:B:PRO:C	10	6.58
(1,356)	2:105:B:SER:N	2:105:B:SER:CA	2:105:B:SER:C	2:106:B:ARG:N	6	6.5
(1,266)	2:54:B:ILE:N	2:54:B:ILE:CA	2:54:B:ILE:C	2:55:B:PRO:N	6	6.32
(1,86)	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	1:50:A:THR:N	8	6.28
(1,264)	2:53:B:TYR:N	2:53:B:TYR:CA	2:53:B:TYR:C	2:54:B:ILE:N	3	6.22
(1,136)	1:84:A:ASP:N	1:84:A:ASP:CA	1:84:A:ASP:C	1:85:A:LEU:N	5	6.21
(1,309)	2:75:B:SER:C	2:76:B:TRP:N	2:76:B:TRP:CA	2:76:B:TRP:C	10	6.16
(1,266)	2:54:B:ILE:N	2:54:B:ILE:CA	2:54:B:ILE:C	2:55:B:PRO:N	9	6.06
(1,354)	2:104:B:LEU:N	2:104:B:LEU:CA	2:104:B:LEU:C	2:105:B:SER:N	1	5.95
(1,136)	1:84:A:ASP:N	1:84:A:ASP:CA	1:84:A:ASP:C	1:85:A:LEU:N	7	5.76
(1,315)	2:82:B:ARG:C	2:83:B:LEU:N	2:83:B:LEU:CA	2:83:B:LEU:C	8	5.73
(1,86)	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	1:50:A:THR:N	2	5.7
(1,86)	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	1:50:A:THR:N	5	5.54
(1,86)	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	1:50:A:THR:N	3	5.22
(1,45)	1:23:A:PHE:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	7	5.18
(1,213)	2:22:B:LYS:C	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	2	5.0
(1,213)	2:22:B:LYS:C	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	6	4.88
(1,46)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:GLU:N	7	4.88
(1,215)	2:23:B:PHE:C	2:24:B:SER:N	2:24:B:SER:CA	2:24:B:SER:C	1	4.47
(1,86)	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	1:50:A:THR:N	9	4.3
(1,169)	1:103:A:LEU:C	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	7	4.26
(1,266)	2:54:B:ILE:N	2:54:B:ILE:CA	2:54:B:ILE:C	2:55:B:PRO:N	8	4.22
(1,267)	2:54:B:ILE:C	2:55:B:PRO:N	2:55:B:PRO:CA	2:55:B:PRO:C	6	4.2
(1,46)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:GLU:N	4	4.13
(1,213)	2:22:B:LYS:C	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	7	4.1
(1,48)	1:30:A:LEU:N	1:30:A:LEU:CA	1:30:A:LEU:C	1:31:A:TRP:N	3	4.09
(1,45)	1:23:A:PHE:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	4	4.01
(1,133)	1:82:A:ARG:C	1:83:A:LEU:N	1:83:A:LEU:CA	1:83:A:LEU:C	4	3.96
(1,266)	2:54:B:ILE:N	2:54:B:ILE:CA	2:54:B:ILE:C	2:55:B:PRO:N	3	3.95
(1,266)	2:54:B:ILE:N	2:54:B:ILE:CA	2:54:B:ILE:C	2:55:B:PRO:N	7	3.94
(1,266)	2:54:B:ILE:N	2:54:B:ILE:CA	2:54:B:ILE:C	2:55:B:PRO:N	5	3.83
(1,267)	2:54:B:ILE:C	2:55:B:PRO:N	2:55:B:PRO:CA	2:55:B:PRO:C	7	3.76
(1,352)	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	2:104:B:LEU:N	2	3.72
(1,264)	2:53:B:TYR:N	2:53:B:TYR:CA	2:53:B:TYR:C	2:54:B:ILE:N	9	3.6
(1,265)	2:53:B:TYR:C	2:54:B:ILE:N	2:54:B:ILE:CA	2:54:B:ILE:C	8	3.19
(1,354)	2:104:B:LEU:N	2:104:B:LEU:CA	2:104:B:LEU:C	2:105:B:SER:N	7	3.01
(1,213)	2:22:B:LYS:C	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	10	2.94
(1,265)	2:53:B:TYR:C	2:54:B:ILE:N	2:54:B:ILE:CA	2:54:B:ILE:C	2	2.87
(1,266)	2:54:B:ILE:N	2:54:B:ILE:CA	2:54:B:ILE:C	2:55:B:PRO:N	4	2.67
(1,85)	1:48:A:ALA:C	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	6	2.5
(1,213)	2:22:B:LYS:C	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	4	2.45
(1,168)	1:103:A:LEU:N	1:103:A:LEU:CA	1:103:A:LEU:C	1:104:A:LEU:N	9	2.23
(1,124)	1:77:A:GLY:N	1:77:A:GLY:CA	1:77:A:GLY:C	1:78:A:PHE:N	2	2.21
(1,168)	1:103:A:LEU:N	1:103:A:LEU:CA	1:103:A:LEU:C	1:104:A:LEU:N	7	2.2
(1,85)	1:48:A:ALA:C	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	4	2.19

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,85)	1:48:A:ALA:C	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	10	2.17
(1,2)	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	1:3:A:PRO:N	4	2.14
(1,130)	1:81:A:GLN:N	1:81:A:GLN:CA	1:81:A:GLN:C	1:82:A:ARG:N	8	2.0
(1,136)	1:84:A:ASP:N	1:84:A:ASP:CA	1:84:A:ASP:C	1:85:A:LEU:N	10	1.99
(1,85)	1:48:A:ALA:C	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	2	1.97
(1,126)	1:78:A:PHE:N	1:78:A:PHE:CA	1:78:A:PHE:C	1:79:A:PHE:N	7	1.92
(1,359)	2:106:B:ARG:C	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	9	1.71
(1,213)	2:22:B:LYS:C	2:23:B:PHE:N	2:23:B:PHE:CA	2:23:B:PHE:C	3	1.62
(1,124)	1:77:A:GLY:N	1:77:A:GLY:CA	1:77:A:GLY:C	1:78:A:PHE:N	10	1.53
(1,85)	1:48:A:ALA:C	1:49:A:GLN:N	1:49:A:GLN:CA	1:49:A:GLN:C	5	1.53
(1,168)	1:103:A:LEU:N	1:103:A:LEU:CA	1:103:A:LEU:C	1:104:A:LEU:N	3	1.52
(1,262)	2:52:B:ALA:N	2:52:B:ALA:CA	2:52:B:ALA:C	2:53:B:TYR:N	7	1.47
(1,359)	2:106:B:ARG:C	2:107:B:SER:N	2:107:B:SER:CA	2:107:B:SER:C	5	1.42
(1,126)	1:78:A:PHE:N	1:78:A:PHE:CA	1:78:A:PHE:C	1:79:A:PHE:N	9	1.42
(1,317)	2:83:B:LEU:C	2:84:B:ASP:N	2:84:B:ASP:CA	2:84:B:ASP:C	4	1.4
(1,45)	1:23:A:PHE:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	8	1.24
(1,352)	2:103:B:LEU:N	2:103:B:LEU:CA	2:103:B:LEU:C	2:104:B:LEU:N	7	1.21
(1,124)	1:77:A:GLY:N	1:77:A:GLY:CA	1:77:A:GLY:C	1:78:A:PHE:N	6	1.09