



Full wwPDB NMR Structure Validation Report ⓘ

Mar 5, 2026 – 08:35 AM UTC

PDB ID : 2LZU / pdb_00002lzu
BMRB ID : 18778
Title : Solution structure of LIMD2
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Deposited on : 2012-10-10

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

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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 : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

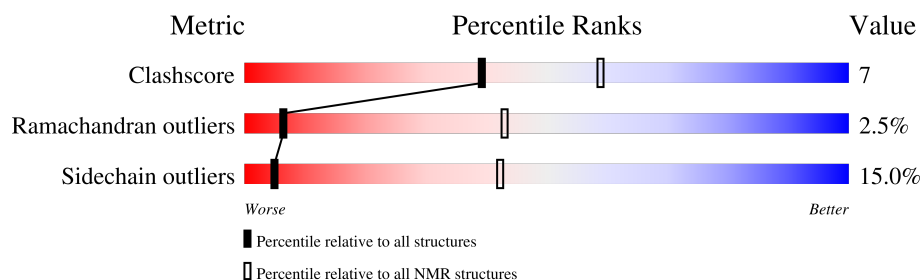
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 73%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

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

Mol	Chain	Length	Quality of chain
1	A	72	56% 22% • 18%

2 Ensemble composition and analysis

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

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:41-A:99 (59)	0.43	10

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

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

The models can be grouped into 3 clusters. No single-model clusters were found.

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

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 1144 atoms, of which 562 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called LIM domain-containing protein 2.

Mol	Chain	Residues	Atoms						Trace
1	A	72	Total	C	H	N	O	S	0
			1142	368	562	102	102	8	

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

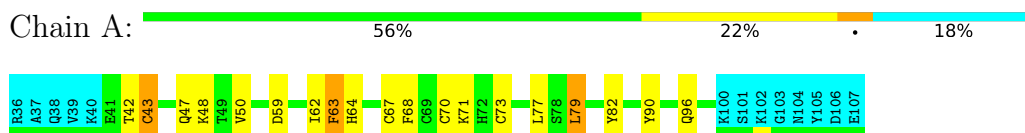
Mol	Chain	Residues	Atoms	
2	A	2	Total	Zn
			2	2

4 Residue-property plots

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: LIM domain-containing protein 2

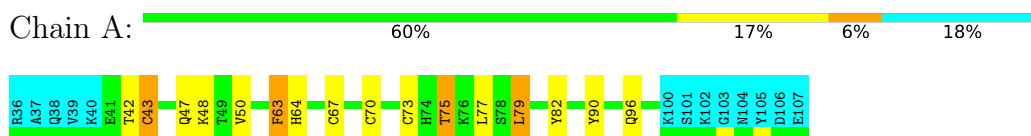


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

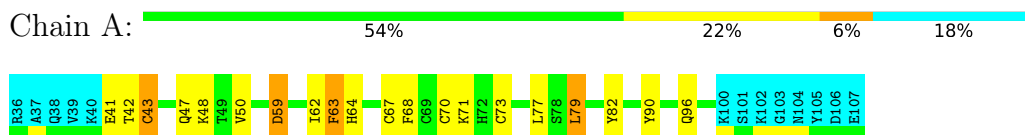
4.2.1 Score per residue for model 1

- Molecule 1: LIM domain-containing protein 2



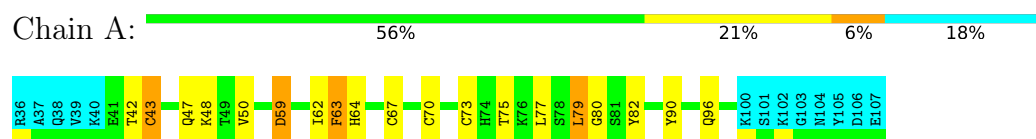
4.2.2 Score per residue for model 2

- Molecule 1: LIM domain-containing protein 2



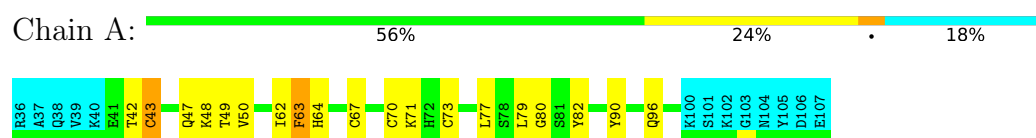
4.2.3 Score per residue for model 3

- Molecule 1: LIM domain-containing protein 2



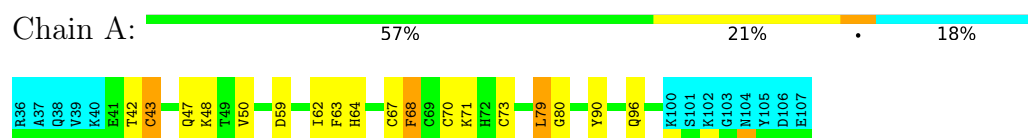
4.2.4 Score per residue for model 4

- Molecule 1: LIM domain-containing protein 2



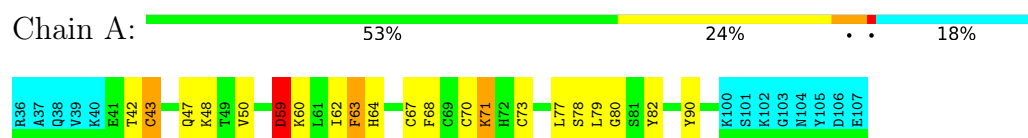
4.2.5 Score per residue for model 5

- Molecule 1: LIM domain-containing protein 2



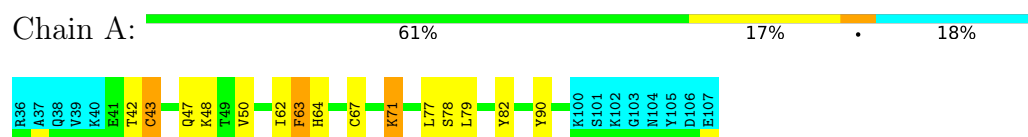
4.2.6 Score per residue for model 6

- Molecule 1: LIM domain-containing protein 2



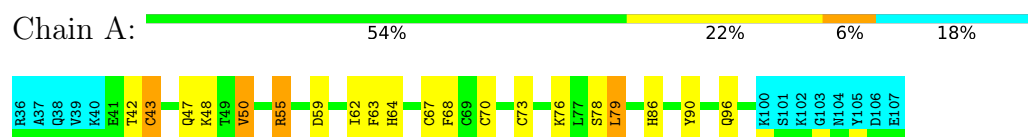
4.2.7 Score per residue for model 7

- Molecule 1: LIM domain-containing protein 2



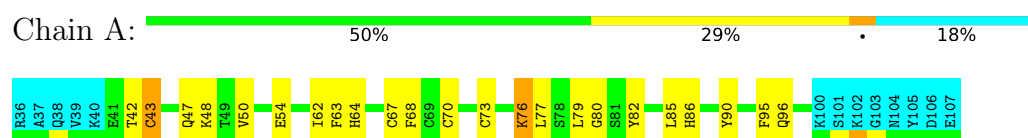
4.2.8 Score per residue for model 8

- Molecule 1: LIM domain-containing protein 2



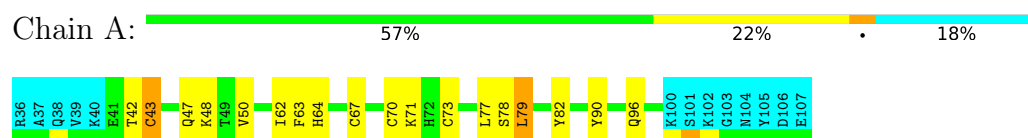
4.2.9 Score per residue for model 9

- Molecule 1: LIM domain-containing protein 2



4.2.10 Score per residue for model 10 (medoid)

- Molecule 1: LIM domain-containing protein 2



5 Refinement protocol and experimental data overview

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

Of the 450 calculated structures, 10 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
ARIA	structure solution	2.3
CNS	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	3
Total number of shifts	1396
Number of shifts mapped to atoms	1396
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	73%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

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	1.29±0.03	0±0/488 (0.0± 0.1%)	1.21±0.03	2±1/658 (0.2± 0.1%)
All	All	1.29	2/4880 (0.0%)	1.22	16/6580 (0.2%)

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	41	GLU	C-N	-5.78	1.25	1.33	2	1
1	A	55	ARG	C-N	-5.03	1.26	1.33	8	1

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	59	ASP	CA-CB-CG	6.75	119.35	112.60	3	3
1	A	63	PHE	N-CA-C	5.84	117.13	108.60	6	8
1	A	68	PHE	CA-CB-CG	5.42	119.22	113.80	2	5

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	473	453	451	7±1
All	All	4750	4530	4510	67

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 7.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:43:CYS:O	1:A:47:GLN:HA	0.67	1.89	2	10
1:A:64:HIS:HB2	1:A:67:CYS:SG	0.66	2.30	1	10
1:A:70:CYS:HB3	1:A:73:CYS:O	0.55	2.02	8	9
1:A:43:CYS:HA	1:A:62:ILE:O	0.55	2.01	5	9
1:A:43:CYS:HB3	1:A:48:LYS:O	0.53	2.03	5	10
1:A:77:LEU:HD13	1:A:82:TYR:HB2	0.48	1.84	1	7
1:A:85:LEU:HG	1:A:86:HIS:N	0.48	2.24	9	1
1:A:54:GLU:O	1:A:64:HIS:HA	0.48	2.09	9	1
1:A:77:LEU:HD13	1:A:82:TYR:CB	0.47	2.40	9	3
1:A:71:LYS:HA	1:A:71:LYS:HE3	0.44	1.90	6	2
1:A:77:LEU:O	1:A:82:TYR:HB3	0.43	2.12	3	1
1:A:76:LYS:HD2	1:A:76:LYS:H	0.41	1.75	9	1
1:A:85:LEU:HB2	1:A:95:PHE:CE1	0.41	2.51	9	1
1:A:73:CYS:SG	1:A:75:THR:HB	0.40	2.57	1	1
1:A:50:VAL:HG11	1:A:55:ARG:HA	0.40	1.92	8	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	59/72 (82%)	54±1 (91±2%)	4±1 (7±2%)	2±1 (3±2%)	6	43
All	All	590/720 (82%)	535 (91%)	40 (7%)	15 (3%)	6	43

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	79	LEU	6
1	A	80	GLY	5
1	A	59	ASP	3
1	A	60	LYS	1

6.3.2 Protein sidechains

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	52/63 (83%)	44±1 (85±2%)	8±1 (15±2%)	5	42
All	All	520/630 (83%)	442 (85%)	78 (15%)	5	42

All 14 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	42	THR	10
1	A	43	CYS	10
1	A	50	VAL	10
1	A	79	LEU	10
1	A	90	TYR	10
1	A	63	PHE	8
1	A	71	LYS	6
1	A	78	SER	4
1	A	59	ASP	3
1	A	75	THR	2
1	A	76	LYS	2
1	A	49	THR	1
1	A	68	PHE	1
1	A	86	HIS	1

6.3.3 RNA

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 oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

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 73% for the well-defined parts and 63% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping [i](#)

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

Total number of shifts	305
Number of shifts mapped to atoms	305
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing [i](#)

No chemical shift referencing corrections were calculated (not enough data).

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 38%, i.e. 305 atoms were assigned a chemical shift out of a possible 798. 0 out of 8 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	55/293 (19%)	55/118 (47%)	0/118 (0%)	0/57 (0%)
Sidechain	205/391 (52%)	205/256 (80%)	0/123 (0%)	0/12 (0%)
Aromatic	45/114 (39%)	45/57 (79%)	0/50 (0%)	0/7 (0%)
Overall	305/798 (38%)	305/431 (71%)	0/291 (0%)	0/76 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 31%, i.e. 305 atoms were assigned a chemical shift out of a possible 978. 0 out of 9 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	55/359 (15%)	55/145 (38%)	0/144 (0%)	0/70 (0%)
Sidechain	205/496 (41%)	205/321 (64%)	0/155 (0%)	0/20 (0%)
Aromatic	45/123 (37%)	45/61 (74%)	0/55 (0%)	0/7 (0%)
Overall	305/978 (31%)	305/527 (58%)	0/354 (0%)	0/97 (0%)

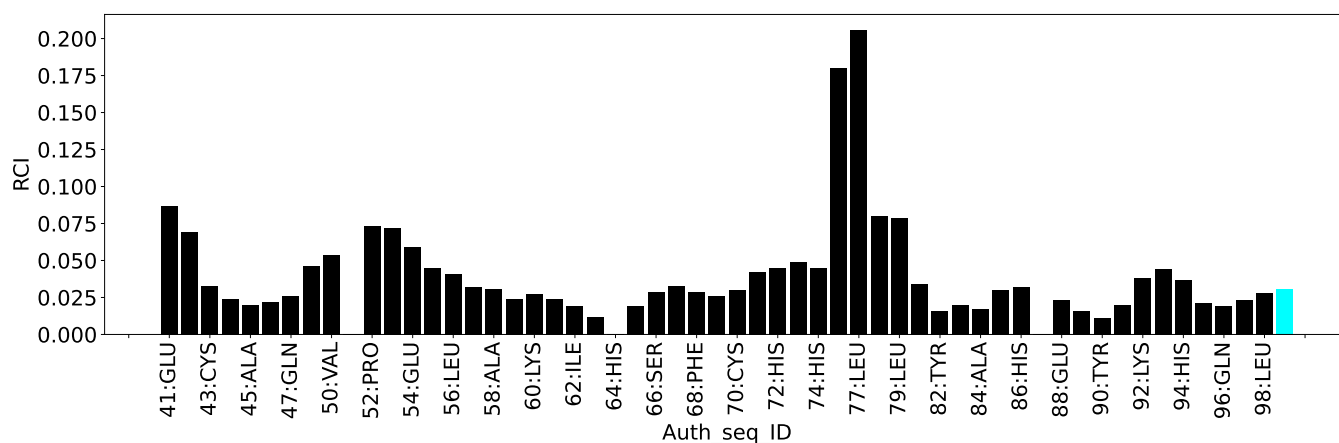
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain A:



7.2 Chemical shift list 2

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_2*

7.2.1 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	617
Number of shifts mapped to atoms	617
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	76

7.2.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	51	1.64 ± 0.28	Should be applied
$^{13}\text{C}_\beta$	47	1.37 ± 0.31	Should be applied
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	60	0.11 ± 0.90	None needed (< 0.5 ppm)

7.2.3 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 73%, i.e. 581 atoms were assigned a chemical shift out of a possible 798. 0 out of 8 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	218/293 (74%)	113/118 (96%)	51/118 (43%)	54/57 (95%)
Sidechain	318/391 (81%)	233/256 (91%)	85/123 (69%)	0/12 (0%)
Aromatic	45/114 (39%)	45/57 (79%)	0/50 (0%)	0/7 (0%)
Overall	581/798 (73%)	391/431 (91%)	136/291 (47%)	54/76 (71%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 63%, i.e. 617 atoms were assigned a chemical shift out of a possible 978. 0 out of 9 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	237/359 (66%)	126/145 (87%)	51/144 (35%)	60/70 (86%)
Sidechain	335/496 (68%)	250/321 (78%)	85/155 (55%)	0/20 (0%)
Aromatic	45/123 (37%)	45/61 (74%)	0/55 (0%)	0/7 (0%)
Overall	617/978 (63%)	421/527 (80%)	136/354 (38%)	60/97 (62%)

7.2.4 Statistically unusual chemical shifts ⓘ

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
2	A	93	PRO	CG	52.90	21.69 – 32.72	23.3
2	A	49	THR	CG2	46.81	16.06 – 27.03	23.0
2	A	56	LEU	CG	51.61	21.37 – 32.19	22.9
2	A	61	LEU	CG	51.58	21.37 – 32.19	22.9
2	A	52	PRO	CG	52.28	21.69 – 32.72	22.7
2	A	98	LEU	CG	51.31	21.37 – 32.19	22.7
2	A	48	LYS	CG	49.84	19.35 – 30.45	22.5
2	A	85	LEU	CG	50.71	21.37 – 32.19	22.1
2	A	48	LYS	CD	53.09	23.50 – 34.42	22.1
2	A	42	THR	CG2	45.75	16.06 – 27.03	22.1
2	A	77	LEU	CG	49.00	21.37 – 32.19	20.5
2	A	62	ILE	CG2	42.83	10.93 – 24.12	19.2
2	A	50	VAL	CG1	45.31	14.71 – 28.29	17.5
2	A	57	VAL	CG1	45.21	14.71 – 28.29	17.5
2	A	78	SER	CB	38.82	56.28 – 71.32	-16.6
2	A	56	LEU	CD1	50.80	16.71 – 32.55	16.5
2	A	61	LEU	CD1	50.77	16.71 – 32.55	16.5
2	A	93	PRO	CA	39.06	55.85 – 70.84	-16.2
2	A	49	THR	CB	41.94	61.12 – 78.27	-16.2
2	A	84	ALA	CB	47.32	10.19 – 27.75	16.1
2	A	52	PRO	CA	39.32	55.85 – 70.84	-16.0
2	A	75	THR	CB	42.23	61.12 – 78.27	-16.0
2	A	57	VAL	CG2	45.21	13.71 – 28.88	15.8
2	A	79	LEU	CD1	49.44	16.71 – 32.55	15.7
2	A	77	LEU	CD1	49.40	16.71 – 32.55	15.7
2	A	50	VAL	CG2	44.90	13.71 – 28.88	15.6
2	A	85	LEU	CD2	49.90	15.73 – 32.47	15.4
2	A	98	LEU	CD1	48.88	16.71 – 32.55	15.3
2	A	56	LEU	CD2	49.62	15.73 – 32.47	15.2
2	A	42	THR	CB	43.78	61.12 – 78.27	-15.1
2	A	45	ALA	CB	45.11	10.19 – 27.75	14.9
2	A	62	ILE	CG1	52.76	19.24 – 36.26	14.7
2	A	85	LEU	CD1	47.87	16.71 – 32.55	14.7
2	A	62	ILE	CD1	37.00	5.18 – 21.60	14.4
2	A	79	LEU	CD2	47.81	15.73 – 32.47	14.2
2	A	61	LEU	CD2	47.53	15.73 – 32.47	14.0
2	A	97	GLN	CB	53.75	20.34 – 37.98	13.9
2	A	44	ALA	CB	43.08	10.19 – 27.75	13.7

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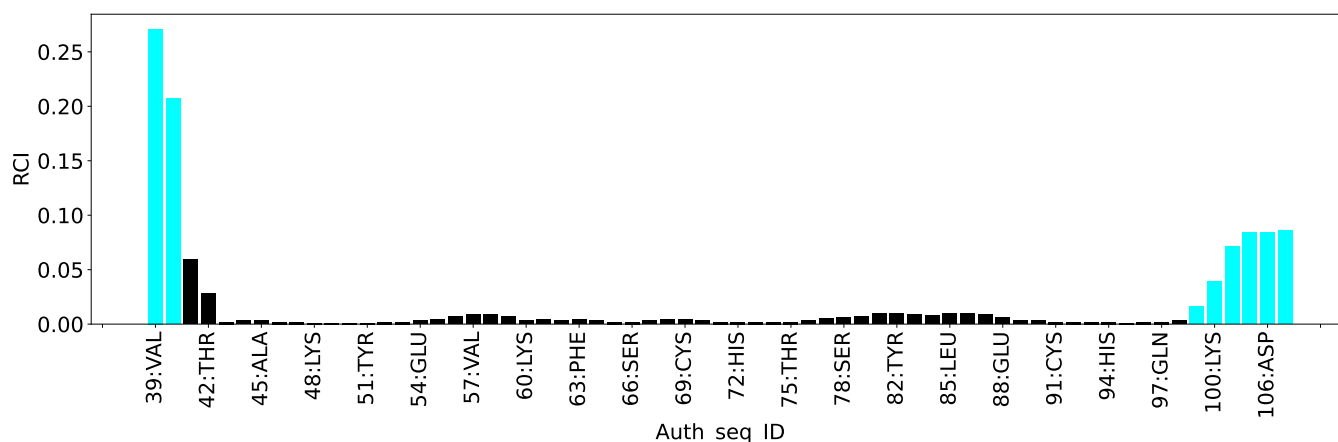
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List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
2	A	98	LEU	CD2	46.84	15.73 – 32.47	13.6
2	A	77	LEU	CD2	46.79	15.73 – 32.47	13.6
2	A	60	LYS	CB	55.94	24.03 – 41.47	13.3
2	A	96	GLN	CB	52.53	20.34 – 37.98	13.2
2	A	66	SER	CA	32.63	48.46 – 68.96	-12.7
2	A	65	ASN	CA	30.60	44.28 – 62.79	-12.4
2	A	97	GLN	CA	30.87	46.17 – 66.97	-12.4
2	A	76	LYS	CA	30.35	46.18 – 67.77	-12.3
2	A	47	GLN	CA	31.16	46.17 – 66.97	-12.2
2	A	96	GLN	CA	31.20	46.17 – 66.97	-12.2
2	A	92	LYS	CB	53.91	24.03 – 41.47	12.1
2	A	60	LYS	CA	31.16	46.18 – 67.77	-12.0
2	A	71	LYS	CA	31.16	46.18 – 67.77	-12.0
2	A	47	GLN	CB	50.14	20.34 – 37.98	11.9
2	A	53	MET	CA	30.35	45.26 – 67.07	-11.8
2	A	55	ARG	CA	30.35	45.44 – 68.13	-11.7
2	A	42	THR	CA	32.75	49.41 – 75.05	-11.5
2	A	94	HIS	CB	53.88	19.76 – 40.75	11.2
2	A	62	ILE	CA	31.97	48.30 – 75.08	-11.1
2	A	72	HIS	CA	31.41	45.04 – 67.94	-10.9
2	A	53	MET	CB	55.94	22.22 – 43.61	10.8
2	A	99	PHE	CA	30.75	45.38 – 70.89	-10.7
2	A	86	HIS	CB	52.74	19.76 – 40.75	10.7
2	A	89	PHE	CA	30.90	45.38 – 70.89	-10.7
2	A	50	VAL	CA	33.13	48.38 – 76.73	-10.4
2	A	74	HIS	CB	51.88	19.76 – 40.75	10.3
2	A	75	THR	CA	35.89	49.41 – 75.05	-10.3
2	A	92	LYS	CA	34.89	46.18 – 67.77	-10.2
2	A	94	HIS	CA	33.30	45.04 – 67.94	-10.1
2	A	49	THR	CA	36.94	49.41 – 75.05	-9.9
2	A	95	PHE	CA	34.12	45.38 – 70.89	-9.4
2	A	43	CYS	CA	30.35	40.80 – 75.33	-8.0
2	A	91	CYS	CA	30.35	40.80 – 75.33	-8.0
2	A	73	CYS	CA	30.75	40.80 – 75.33	-7.9
2	A	70	CYS	CA	31.16	40.80 – 75.33	-7.8
2	A	46	CYS	CA	31.38	40.80 – 75.33	-7.7
2	A	67	CYS	CA	33.44	40.80 – 75.33	-7.1
2	A	87	GLY	N	128.59	91.59 – 127.52	5.3

7.2.5 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:



7.3 Chemical shift list 3

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_3*

7.3.1 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	474
Number of shifts mapped to atoms	474
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

7.3.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	0	—	None (insufficient data)
$^{13}\text{C}_\beta$	0	—	None (insufficient data)
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	60	0.12 ± 0.98	None needed (< 0.5 ppm)

7.3.3 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 55%, i.e. 438 atoms were assigned a chemical shift out of a possible 798. 0 out of 8 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	166/293 (57%)	112/118 (95%)	0/118 (0%)	54/57 (95%)
Sidechain	227/391 (58%)	227/256 (89%)	0/123 (0%)	0/12 (0%)
Aromatic	45/114 (39%)	45/57 (79%)	0/50 (0%)	0/7 (0%)
Overall	438/798 (55%)	384/431 (89%)	0/291 (0%)	54/76 (71%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 48%, i.e. 474 atoms were assigned a chemical shift out of a possible 978. 0 out of 9 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	185/359 (52%)	125/145 (86%)	0/144 (0%)	60/70 (86%)
Sidechain	244/496 (49%)	244/321 (76%)	0/155 (0%)	0/20 (0%)
Aromatic	45/123 (37%)	45/61 (74%)	0/55 (0%)	0/7 (0%)
Overall	474/978 (48%)	414/527 (79%)	0/354 (0%)	60/97 (62%)

7.3.4 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.

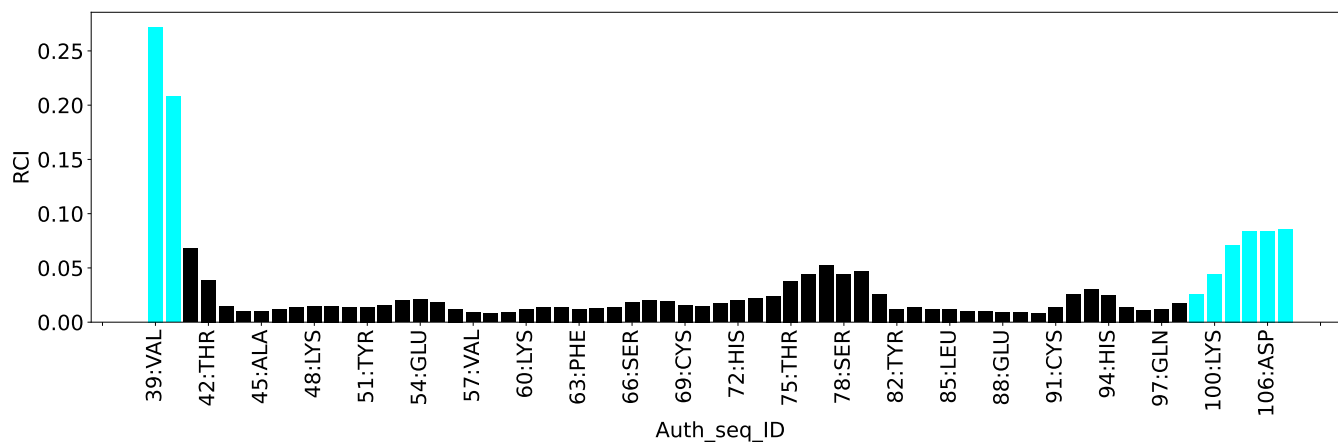
List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
3	A	87	GLY	N	128.59	91.59 – 127.52	5.3

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

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication

of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition. If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	1179
Intra-residue ($ i-j =0$)	549
Sequential ($ i-j =1$)	211
Medium range ($ i-j >1$ and $ i-j <5$)	124
Long range ($ i-j \geq 5$)	271
Inter-chain	0
Hydrogen bond restraints	24
Disulfide bond restraints	0
Total dihedral-angle restraints	126
Number of unmapped restraints	0
Number of restraints per residue	17.6
Number of long range restraints per residue ¹	3.8

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	39.2	0.2
0.2-0.5 (Medium)	74.9	0.5
>0.5 (Large)	27.1	1.14

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	25.8	4.9
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis ⓘ

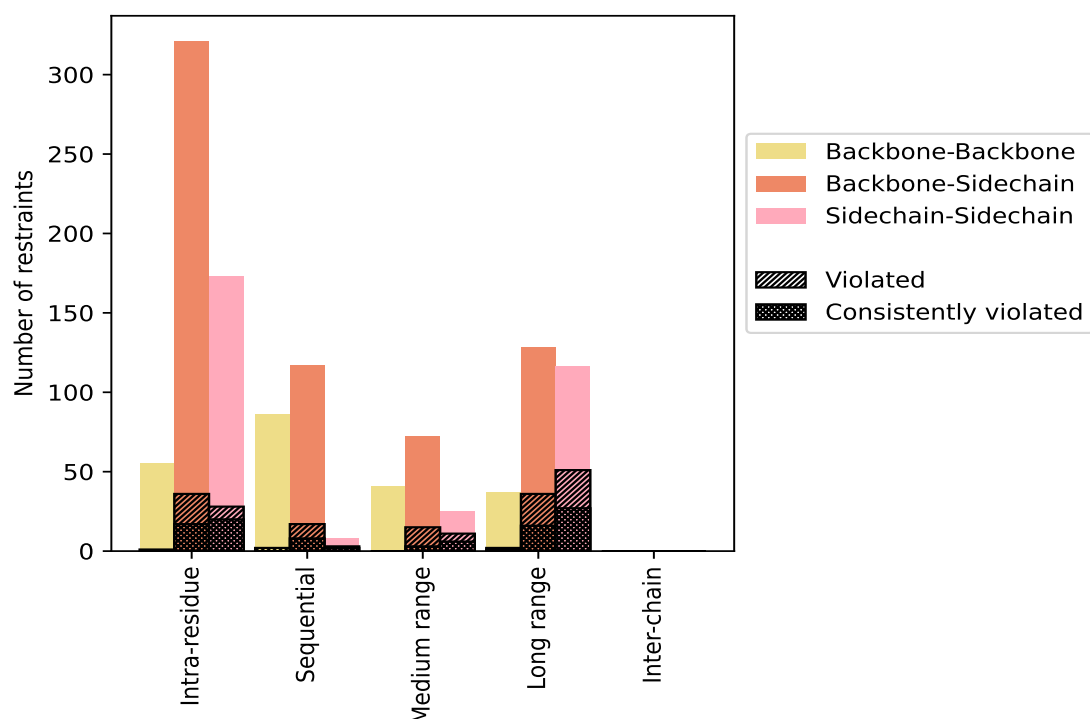
9.1 Summary of distance violations ⓘ

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

Restraints type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	549	46.6	65	11.8	5.5	37	6.7	3.1
Backbone-Backbone	55	4.7	1	1.8	0.1	0	0.0	0.0
Backbone-Sidechain	321	27.2	36	11.2	3.1	17	5.3	1.4
Sidechain-Sidechain	173	14.7	28	16.2	2.4	20	11.6	1.7
Sequential ($i-j =1$)	211	17.9	22	10.4	1.9	10	4.7	0.8
Backbone-Backbone	86	7.3	2	2.3	0.2	0	0.0	0.0
Backbone-Sidechain	117	9.9	17	14.5	1.4	8	6.8	0.7
Sidechain-Sidechain	8	0.7	3	37.5	0.3	2	25.0	0.2
Medium range ($i-j >1$ & $i-j <5$)	124	10.5	26	21.0	2.2	9	7.3	0.8
Backbone-Backbone	41	3.5	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	58	4.9	15	25.9	1.3	3	5.2	0.3
Sidechain-Sidechain	25	2.1	11	44.0	0.9	6	24.0	0.5
Long range ($i-j \geq 5$)	271	23.0	89	32.8	7.5	44	16.2	3.7
Backbone-Backbone	37	3.1	2	5.4	0.2	1	2.7	0.1
Backbone-Sidechain	118	10.0	36	30.5	3.1	16	13.6	1.4
Sidechain-Sidechain	116	9.8	51	44.0	4.3	27	23.3	2.3
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	24	2.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1179	100.0	202	17.1	17.1	100	8.5	8.5
Backbone-Backbone	219	18.6	5	2.3	0.4	1	0.5	0.1
Backbone-Sidechain	638	54.1	104	16.3	8.8	44	6.9	3.7
Sidechain-Sidechain	322	27.3	93	28.9	7.9	55	17.1	4.7

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

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



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

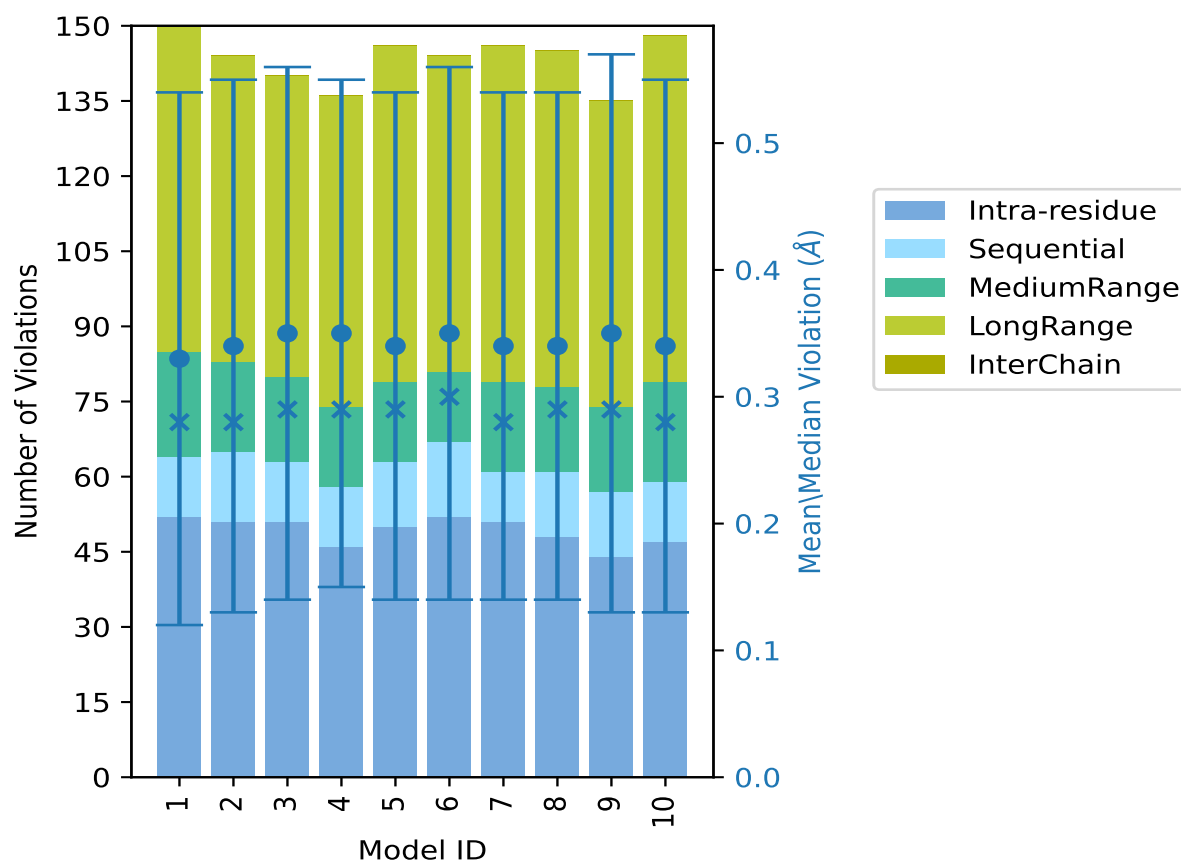
9.2 Distance violation statistics for each model [i](#)

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	52	12	21	65	0	150	0.33	1.05	0.21	0.28
2	51	14	18	61	0	144	0.34	0.99	0.21	0.28
3	51	12	17	60	0	140	0.35	1.11	0.21	0.29
4	46	12	16	62	0	136	0.35	0.97	0.2	0.29
5	50	13	16	67	0	146	0.34	0.99	0.2	0.29
6	52	15	14	63	0	144	0.35	0.99	0.21	0.3
7	51	10	18	67	0	146	0.34	1.05	0.2	0.28
8	48	13	17	67	0	145	0.34	0.97	0.2	0.29
9	44	13	17	61	0	135	0.35	1.14	0.22	0.29
10	47	12	20	69	0	148	0.34	1.0	0.21	0.28

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, 953(IR:484, SQ:189, MR:98, LR:182, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
6	4	3	12	0	25	1	10.0
4	3	3	8	0	18	2	20.0
1	1	1	4	0	7	3	30.0

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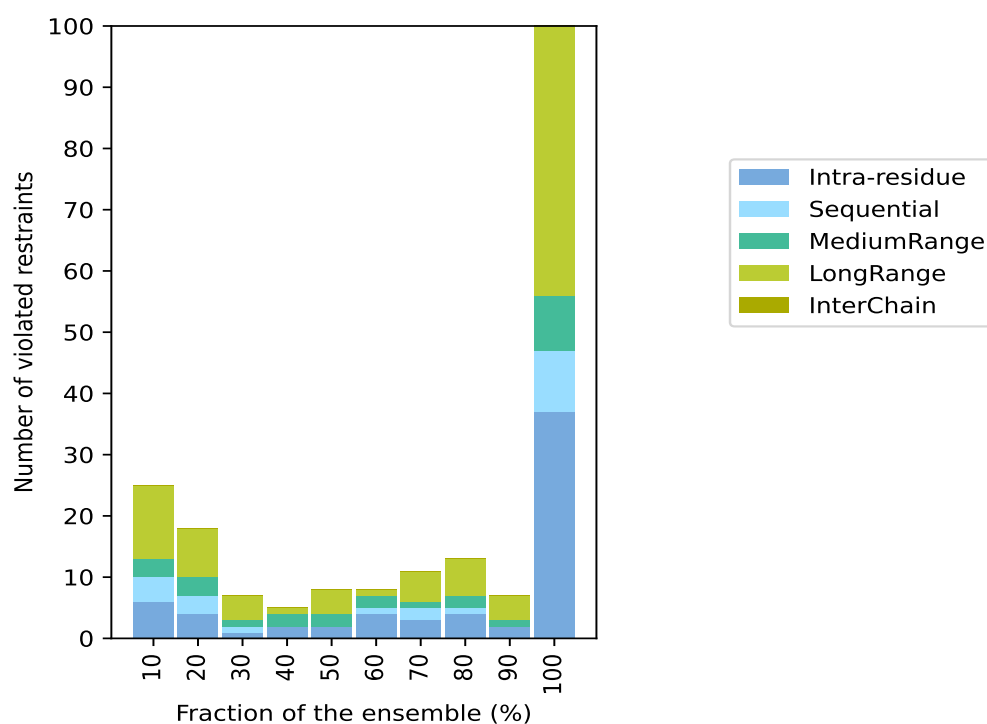
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
2	0	2	1	0	5	4	40.0
2	0	2	4	0	8	5	50.0
4	1	2	1	0	8	6	60.0
3	2	1	5	0	11	7	70.0
4	1	2	6	0	13	8	80.0
2	0	1	4	0	7	9	90.0
37	10	9	44	0	100	10	100.0

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](#)

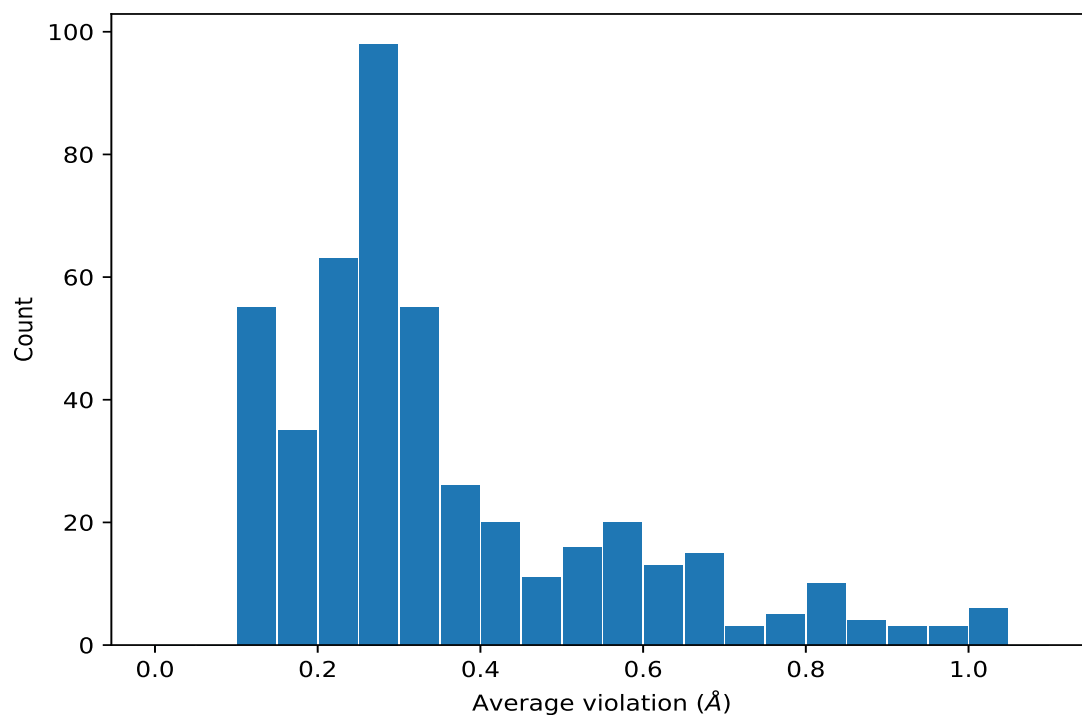


9.4 Most violated distance restraints in the ensemble [i](#)

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)
(1,1149)	1:57:A:VAL:HG21	1:62:A:ILE:HG23	10	1.02	0.06	1.0
(1,1149)	1:57:A:VAL:HG22	1:62:A:ILE:HG23	10	1.02	0.06	1.0
(1,1149)	1:57:A:VAL:HG22	1:62:A:ILE:HG22	10	1.02	0.06	1.0
(1,1149)	1:57:A:VAL:HG21	1:62:A:ILE:HG21	10	1.02	0.06	1.0
(1,1149)	1:57:A:VAL:HG23	1:62:A:ILE:HG23	10	1.02	0.06	1.0
(1,1149)	1:57:A:VAL:HG23	1:62:A:ILE:HG22	10	1.02	0.06	1.0
(1,1061)	1:98:A:LEU:HD12	1:98:A:LEU:HA	10	0.96	0.02	0.96
(1,1061)	1:98:A:LEU:HD11	1:98:A:LEU:HA	10	0.96	0.02	0.96
(1,1061)	1:98:A:LEU:HD13	1:98:A:LEU:HA	10	0.96	0.02	0.96
(1,344)	1:47:A:GLN:H	1:44:A:ALA:HB1	10	0.94	0.03	0.94
(1,344)	1:47:A:GLN:H	1:44:A:ALA:HB2	10	0.94	0.03	0.94
(1,344)	1:47:A:GLN:H	1:44:A:ALA:HB3	10	0.94	0.03	0.94
(1,1113)	1:82:A:TYR:HA	1:83:A:ALA:HB3	10	0.87	0.04	0.88
(1,1113)	1:82:A:TYR:HA	1:83:A:ALA:HB1	10	0.87	0.04	0.88
(1,1113)	1:82:A:TYR:HA	1:83:A:ALA:HB2	10	0.87	0.04	0.88

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1113)	1:84:A:ALA:HA	1:83:A:ALA:HB1	10	0.87	0.04	0.88
(1,1063)	1:44:A:ALA:H	1:50:A:VAL:HG11	10	0.85	0.08	0.85
(1,1063)	1:44:A:ALA:H	1:50:A:VAL:HG13	10	0.85	0.08	0.85
(1,1151)	1:63:A:PHE:HD1	1:58:A:ALA:HB1	10	0.8	0.09	0.82
(1,1151)	1:63:A:PHE:HD1	1:58:A:ALA:HB2	10	0.8	0.09	0.82
(1,1151)	1:63:A:PHE:HD1	1:58:A:ALA:HB3	10	0.8	0.09	0.82
(1,1027)	1:62:A:ILE:HD12	1:57:A:VAL:HG11	10	0.8	0.1	0.82
(1,1027)	1:62:A:ILE:HD12	1:57:A:VAL:HG12	10	0.8	0.1	0.82
(1,1027)	1:62:A:ILE:HD12	1:57:A:VAL:HG13	10	0.8	0.1	0.82
(1,1027)	1:62:A:ILE:HD13	1:57:A:VAL:HG11	10	0.8	0.1	0.82
(1,1027)	1:62:A:ILE:HD13	1:57:A:VAL:HG13	10	0.8	0.1	0.82
(1,1093)	1:82:A:TYR:HD1	1:77:A:LEU:HD13	10	0.77	0.1	0.79
(1,1093)	1:82:A:TYR:HD2	1:77:A:LEU:HD13	10	0.77	0.1	0.79
(1,1093)	1:89:A:PHE:HD2	1:77:A:LEU:HD11	10	0.77	0.1	0.79
(1,1093)	1:82:A:TYR:HD2	1:77:A:LEU:HD11	10	0.77	0.1	0.79
(1,1093)	1:82:A:TYR:HD2	1:77:A:LEU:HD12	10	0.77	0.1	0.79
(1,892)	1:68:A:PHE:HE2	1:58:A:ALA:HB3	10	0.72	0.07	0.74
(1,892)	1:68:A:PHE:HE2	1:58:A:ALA:HB2	10	0.72	0.07	0.74
(1,892)	1:68:A:PHE:HE2	1:58:A:ALA:HB1	10	0.72	0.07	0.74
(1,1134)	1:89:A:PHE:HE1	1:44:A:ALA:HB2	10	0.7	0.08	0.72
(1,1134)	1:89:A:PHE:HE1	1:44:A:ALA:HB3	10	0.7	0.08	0.72
(1,1134)	1:89:A:PHE:HE2	1:44:A:ALA:HB1	10	0.7	0.08	0.72
(1,1134)	1:89:A:PHE:HE1	1:44:A:ALA:HB1	10	0.7	0.08	0.72
(1,120)	1:62:A:ILE:H	1:62:A:ILE:HG23	10	0.68	0.01	0.68
(1,120)	1:62:A:ILE:H	1:62:A:ILE:HG22	10	0.68	0.01	0.68
(1,120)	1:62:A:ILE:H	1:62:A:ILE:HG21	10	0.68	0.01	0.68
(1,1074)	1:68:A:PHE:H	1:56:A:LEU:HD12	10	0.68	0.03	0.68
(1,1074)	1:68:A:PHE:H	1:56:A:LEU:HD11	10	0.68	0.03	0.68
(1,1074)	1:68:A:PHE:H	1:56:A:LEU:HD13	10	0.68	0.03	0.68
(1,442)	1:59:A:ASP:H	1:79:A:LEU:HD23	10	0.67	0.15	0.66
(1,442)	1:59:A:ASP:H	1:79:A:LEU:HD21	10	0.67	0.15	0.66
(1,442)	1:59:A:ASP:H	1:79:A:LEU:HD22	10	0.67	0.15	0.66
(1,1076)	1:71:A:LYS:H	1:75:A:THR:H	10	0.66	0.06	0.66
(1,1076)	1:75:A:THR:H	1:91:A:CYS:H	10	0.66	0.06	0.66
(1,420)	1:56:A:LEU:H	1:56:A:LEU:HD12	10	0.63	0.03	0.64
(1,420)	1:56:A:LEU:H	1:56:A:LEU:HD11	10	0.63	0.03	0.64
(1,420)	1:56:A:LEU:H	1:56:A:LEU:HD13	10	0.63	0.03	0.64
(1,1024)	1:56:A:LEU:HD11	1:79:A:LEU:HD13	10	0.63	0.09	0.63
(1,1024)	1:56:A:LEU:HD11	1:79:A:LEU:HD12	10	0.63	0.09	0.63
(1,1024)	1:56:A:LEU:HD13	1:79:A:LEU:HD12	10	0.63	0.09	0.63
(1,1024)	1:56:A:LEU:HD13	1:79:A:LEU:HD13	10	0.63	0.09	0.63
(1,1024)	1:56:A:LEU:HD12	1:79:A:LEU:HD13	10	0.63	0.09	0.63

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1024)	1:56:A:LEU:HD12	1:79:A:LEU:HD11	10	0.63	0.09	0.63
(1,1024)	1:56:A:LEU:HD11	1:79:A:LEU:HD11	10	0.63	0.09	0.63
(1,1122)	1:58:A:ALA:HA	1:56:A:LEU:HD22	10	0.61	0.06	0.62
(1,1122)	1:56:A:LEU:HD22	1:56:A:LEU:HA	10	0.61	0.06	0.62
(1,1122)	1:58:A:ALA:HA	1:56:A:LEU:HD21	10	0.61	0.06	0.62
(1,1107)	1:85:A:LEU:HD12	1:99:A:PHE:HD2	10	0.6	0.01	0.6
(1,1107)	1:85:A:LEU:HD13	1:99:A:PHE:HD2	10	0.6	0.01	0.6
(1,1107)	1:85:A:LEU:HD11	1:99:A:PHE:HD2	10	0.6	0.01	0.6
(1,510)	1:69:A:CYS:H	1:68:A:PHE:HD2	10	0.59	0.08	0.61
(1,510)	1:69:A:CYS:H	1:68:A:PHE:HD1	10	0.59	0.08	0.61
(1,1062)	1:98:A:LEU:HD23	1:90:A:TYR:HE2	10	0.59	0.04	0.58
(1,1062)	1:98:A:LEU:HD22	1:90:A:TYR:HE2	10	0.59	0.04	0.58
(1,1062)	1:98:A:LEU:HD21	1:90:A:TYR:HE2	10	0.59	0.04	0.58
(1,1138)	1:57:A:VAL:HG22	1:58:A:ALA:HA	10	0.57	0.07	0.6
(1,1138)	1:57:A:VAL:HG23	1:58:A:ALA:HA	10	0.57	0.07	0.6
(1,1138)	1:57:A:VAL:HG22	1:61:A:LEU:HA	10	0.57	0.07	0.6
(1,1138)	1:57:A:VAL:HG21	1:58:A:ALA:HA	10	0.57	0.07	0.6
(1,1138)	1:57:A:VAL:HG23	1:61:A:LEU:HA	10	0.57	0.07	0.6
(1,1140)	1:61:A:LEU:HA	1:61:A:LEU:HD12	10	0.57	0.08	0.6
(1,1140)	1:75:A:THR:HG23	1:74:A:HIS:HA	10	0.57	0.08	0.6
(1,1140)	1:61:A:LEU:HA	1:61:A:LEU:HD11	10	0.57	0.08	0.6
(1,1140)	1:75:A:THR:HG21	1:74:A:HIS:HA	10	0.57	0.08	0.6
(1,766)	1:62:A:ILE:HG12	1:62:A:ILE:HG22	10	0.57	0.02	0.56
(1,766)	1:62:A:ILE:HG12	1:62:A:ILE:HG23	10	0.57	0.02	0.56
(1,766)	1:62:A:ILE:HG12	1:62:A:ILE:HG21	10	0.57	0.02	0.56
(1,1146)	1:85:A:LEU:HD12	1:85:A:LEU:HB3	10	0.54	0.02	0.54
(1,1146)	1:85:A:LEU:HD13	1:85:A:LEU:HB3	10	0.54	0.02	0.54
(1,1146)	1:85:A:LEU:HD11	1:85:A:LEU:HB3	10	0.54	0.02	0.54
(1,1050)	1:57:A:VAL:HG13	1:56:A:LEU:HA	10	0.53	0.1	0.52
(1,1050)	1:57:A:VAL:HG11	1:56:A:LEU:HA	10	0.53	0.1	0.52
(1,1050)	1:57:A:VAL:HG21	1:58:A:ALA:HA	10	0.53	0.1	0.52
(1,1050)	1:57:A:VAL:HG12	1:56:A:LEU:HA	10	0.53	0.1	0.52
(1,493)	1:65:A:ASN:H	1:50:A:VAL:HG22	10	0.53	0.15	0.55
(1,493)	1:65:A:ASN:H	1:50:A:VAL:HG23	10	0.53	0.15	0.55
(1,493)	1:65:A:ASN:H	1:50:A:VAL:HG21	10	0.53	0.15	0.55
(1,1045)	1:68:A:PHE:HE2	1:77:A:LEU:HD11	10	0.5	0.05	0.5
(1,1045)	1:68:A:PHE:HE2	1:77:A:LEU:HD13	10	0.5	0.05	0.5
(1,1045)	1:68:A:PHE:HE2	1:77:A:LEU:HD12	10	0.5	0.05	0.5
(1,1115)	1:77:A:LEU:HD13	1:91:A:CYS:HA	10	0.5	0.04	0.5
(1,1115)	1:77:A:LEU:HD12	1:91:A:CYS:HA	10	0.5	0.04	0.5
(1,1115)	1:77:A:LEU:HD11	1:91:A:CYS:HA	10	0.5	0.04	0.5
(1,38)	1:50:A:VAL:H	1:50:A:VAL:HG12	10	0.47	0.03	0.46

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,38)	1:50:A:VAL:H	1:50:A:VAL:HG11	10	0.47	0.03	0.46
(1,1047)	1:77:A:LEU:HB3	1:77:A:LEU:HD11	10	0.47	0.02	0.47
(1,1047)	1:77:A:LEU:HB3	1:77:A:LEU:HD13	10	0.47	0.02	0.47
(1,1047)	1:77:A:LEU:HB3	1:77:A:LEU:HD12	10	0.47	0.02	0.47
(1,1104)	1:82:A:TYR:HD2	1:79:A:LEU:HD22	10	0.45	0.03	0.46
(1,1104)	1:90:A:TYR:HD2	1:98:A:LEU:HB2	10	0.45	0.03	0.46
(1,1104)	1:82:A:TYR:HD2	1:79:A:LEU:HD23	10	0.45	0.03	0.46
(1,1148)	1:57:A:VAL:HG23	1:60:A:LYS:HG3	10	0.44	0.12	0.45
(1,1148)	1:57:A:VAL:HG21	1:60:A:LYS:HG3	10	0.44	0.12	0.45
(1,1148)	1:57:A:VAL:HG22	1:60:A:LYS:HG3	10	0.44	0.12	0.45
(1,30)	1:49:A:THR:H	1:49:A:THR:HG21	10	0.43	0.06	0.43
(1,30)	1:49:A:THR:H	1:49:A:THR:HG22	10	0.43	0.06	0.43
(1,30)	1:49:A:THR:H	1:49:A:THR:HG23	10	0.43	0.06	0.43
(1,1090)	1:67:A:CYS:H	1:79:A:LEU:HB2	10	0.42	0.05	0.42
(1,85)	1:56:A:LEU:HD21	1:56:A:LEU:HB2	10	0.42	0.01	0.42
(1,85)	1:56:A:LEU:HD23	1:56:A:LEU:HB2	10	0.42	0.01	0.42
(1,904)	1:84:A:ALA:HB1	1:89:A:PHE:HA	10	0.41	0.04	0.42
(1,904)	1:84:A:ALA:HB3	1:89:A:PHE:HA	10	0.41	0.04	0.42
(1,904)	1:84:A:ALA:HB2	1:89:A:PHE:HA	10	0.41	0.04	0.42
(1,169)	1:74:A:HIS:HB3	1:75:A:THR:H	10	0.41	0.02	0.41
(1,169)	1:74:A:HIS:HB2	1:75:A:THR:H	10	0.41	0.02	0.41
(1,122)	1:62:A:ILE:HB	1:62:A:ILE:HD12	10	0.4	0.01	0.4
(1,122)	1:62:A:ILE:HB	1:62:A:ILE:HD13	10	0.4	0.01	0.4
(1,122)	1:62:A:ILE:HB	1:62:A:ILE:HD11	10	0.4	0.01	0.4
(1,470)	1:63:A:PHE:H	1:62:A:ILE:HD11	10	0.4	0.02	0.4
(1,470)	1:63:A:PHE:H	1:62:A:ILE:HD12	10	0.4	0.02	0.4
(1,470)	1:63:A:PHE:H	1:62:A:ILE:HD13	10	0.4	0.02	0.4
(1,998)	1:79:A:LEU:HD21	1:79:A:LEU:HB3	10	0.39	0.02	0.39
(1,998)	1:79:A:LEU:HD22	1:79:A:LEU:HB3	10	0.39	0.02	0.39
(1,998)	1:79:A:LEU:HD23	1:79:A:LEU:HB3	10	0.39	0.02	0.39
(1,846)	1:89:A:PHE:HD1	1:45:A:ALA:HB3	10	0.38	0.07	0.39
(1,846)	1:89:A:PHE:HD1	1:45:A:ALA:HB1	10	0.38	0.07	0.39
(1,846)	1:89:A:PHE:HD1	1:45:A:ALA:HB2	10	0.38	0.07	0.39
(1,846)	1:89:A:PHE:HD2	1:45:A:ALA:HB1	10	0.38	0.07	0.39
(1,975)	1:95:A:PHE:HB3	1:83:A:ALA:HB1	10	0.38	0.13	0.34
(1,975)	1:95:A:PHE:HB3	1:83:A:ALA:HB3	10	0.38	0.13	0.34
(1,975)	1:95:A:PHE:HB3	1:83:A:ALA:HB2	10	0.38	0.13	0.34
(1,1080)	1:81:A:SER:H	1:79:A:LEU:HB2	10	0.38	0.19	0.36
(1,1147)	1:61:A:LEU:HD23	1:61:A:LEU:HD11	10	0.38	0.01	0.38
(1,1147)	1:61:A:LEU:HD23	1:61:A:LEU:HD12	10	0.38	0.01	0.38
(1,1147)	1:61:A:LEU:HD21	1:61:A:LEU:HD12	10	0.38	0.01	0.38
(1,1147)	1:61:A:LEU:HD22	1:61:A:LEU:HD12	10	0.38	0.01	0.38

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1147)	1:61:A:LEU:HB3	1:61:A:LEU:HD11	10	0.38	0.01	0.38
(1,1147)	1:61:A:LEU:HD21	1:61:A:LEU:HD13	10	0.38	0.01	0.38
(1,864)	1:86:A:HIS:HD2	1:85:A:LEU:HD11	10	0.37	0.04	0.36
(1,864)	1:86:A:HIS:HD2	1:85:A:LEU:HD12	10	0.37	0.04	0.36
(1,864)	1:86:A:HIS:HD2	1:85:A:LEU:HD13	10	0.37	0.04	0.36
(1,742)	1:44:A:ALA:HA	1:44:A:ALA:HB1	10	0.36	0.01	0.36
(1,742)	1:44:A:ALA:HA	1:44:A:ALA:HB2	10	0.36	0.01	0.36
(1,742)	1:44:A:ALA:HA	1:44:A:ALA:HB3	10	0.36	0.01	0.36
(1,1028)	1:61:A:LEU:HD23	1:61:A:LEU:HD11	10	0.35	0.02	0.36
(1,1028)	1:61:A:LEU:HD23	1:61:A:LEU:HD12	10	0.35	0.02	0.36
(1,1028)	1:61:A:LEU:HD21	1:61:A:LEU:HD12	10	0.35	0.02	0.36
(1,1028)	1:61:A:LEU:HD22	1:61:A:LEU:HD12	10	0.35	0.02	0.36
(1,1028)	1:61:A:LEU:HD22	1:61:A:LEU:HD13	10	0.35	0.02	0.36
(1,1028)	1:61:A:LEU:HD21	1:61:A:LEU:HD13	10	0.35	0.02	0.36
(1,1041)	1:79:A:LEU:HD21	1:58:A:ALA:HB2	10	0.35	0.12	0.36
(1,1041)	1:79:A:LEU:HD22	1:58:A:ALA:HB2	10	0.35	0.12	0.36
(1,1041)	1:79:A:LEU:HD22	1:58:A:ALA:HB3	10	0.35	0.12	0.36
(1,1041)	1:79:A:LEU:HD23	1:58:A:ALA:HB3	10	0.35	0.12	0.36
(1,1041)	1:79:A:LEU:HD22	1:58:A:ALA:HB1	10	0.35	0.12	0.36
(1,1041)	1:79:A:LEU:HD23	1:58:A:ALA:HB1	10	0.35	0.12	0.36
(1,784)	1:77:A:LEU:HA	1:77:A:LEU:HD11	10	0.35	0.02	0.34
(1,784)	1:77:A:LEU:HA	1:77:A:LEU:HD13	10	0.35	0.02	0.34
(1,784)	1:77:A:LEU:HA	1:77:A:LEU:HD12	10	0.35	0.02	0.34
(1,45)	1:43:A:CYS:HA	1:50:A:VAL:HG22	10	0.34	0.04	0.34
(1,45)	1:43:A:CYS:HA	1:50:A:VAL:HG23	10	0.34	0.04	0.34
(1,45)	1:43:A:CYS:HA	1:50:A:VAL:HG21	10	0.34	0.04	0.34
(1,1136)	1:50:A:VAL:HG12	1:64:A:HIS:HE1	10	0.33	0.07	0.34
(1,1136)	1:50:A:VAL:HG11	1:64:A:HIS:HE1	10	0.33	0.07	0.34
(1,869)	1:89:A:PHE:HE2	1:58:A:ALA:HB1	10	0.33	0.03	0.34
(1,869)	1:89:A:PHE:HE2	1:58:A:ALA:HB2	10	0.33	0.03	0.34
(1,869)	1:89:A:PHE:HE2	1:58:A:ALA:HB3	10	0.33	0.03	0.34
(1,869)	1:89:A:PHE:HE1	1:58:A:ALA:HB3	10	0.33	0.03	0.34
(1,791)	1:83:A:ALA:HA	1:83:A:ALA:HB3	10	0.32	0.01	0.32
(1,791)	1:83:A:ALA:HA	1:83:A:ALA:HB1	10	0.32	0.01	0.32
(1,791)	1:83:A:ALA:HA	1:83:A:ALA:HB2	10	0.32	0.01	0.32
(1,1094)	1:63:A:PHE:HE2	1:63:A:PHE:HD2	10	0.32	0.01	0.32
(1,36)	1:50:A:VAL:HG12	1:54:A:GLU:HB3	10	0.32	0.11	0.32
(1,36)	1:50:A:VAL:HG13	1:54:A:GLU:HB3	10	0.32	0.11	0.32
(1,36)	1:50:A:VAL:HG11	1:54:A:GLU:HB3	10	0.32	0.11	0.32
(1,124)	1:63:A:PHE:HA	1:63:A:PHE:HD1	10	0.31	0.03	0.32
(1,743)	1:45:A:ALA:HA	1:45:A:ALA:HB3	10	0.31	0.01	0.31
(1,743)	1:45:A:ALA:HA	1:45:A:ALA:HB1	10	0.31	0.01	0.31

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,743)	1:45:A:ALA:HA	1:45:A:ALA:HB2	10	0.31	0.01	0.31
(1,1086)	1:95:A:PHE:H	1:97:A:GLN:HB2	10	0.3	0.05	0.32
(1,549)	1:73:A:CYS:H	1:90:A:TYR:HD1	10	0.3	0.16	0.3
(1,549)	1:73:A:CYS:H	1:90:A:TYR:HD2	10	0.3	0.16	0.3
(1,1119)	1:93:A:PRO:HA	1:93:A:PRO:HB2	10	0.3	0.01	0.3
(1,796)	1:86:A:HIS:HE1	1:85:A:LEU:HD22	10	0.3	0.01	0.3
(1,796)	1:86:A:HIS:HE1	1:85:A:LEU:HD21	10	0.3	0.01	0.3
(1,796)	1:86:A:HIS:HE1	1:85:A:LEU:HD23	10	0.3	0.01	0.3
(1,186)	1:77:A:LEU:HD22	1:91:A:CYS:HB2	10	0.29	0.06	0.3
(1,186)	1:77:A:LEU:HD23	1:91:A:CYS:HB2	10	0.29	0.06	0.3
(1,186)	1:77:A:LEU:HD21	1:91:A:CYS:HB2	10	0.29	0.06	0.3
(1,1029)	1:79:A:LEU:HD13	1:79:A:LEU:HD23	10	0.29	0.03	0.3
(1,1029)	1:79:A:LEU:HD12	1:79:A:LEU:HD23	10	0.29	0.03	0.3
(1,1029)	1:79:A:LEU:HD13	1:79:A:LEU:HD21	10	0.29	0.03	0.3
(1,1029)	1:79:A:LEU:HD11	1:79:A:LEU:HD22	10	0.29	0.03	0.3
(1,1029)	1:79:A:LEU:HD11	1:79:A:LEU:HD21	10	0.29	0.03	0.3
(1,1029)	1:79:A:LEU:HD13	1:79:A:LEU:HD22	10	0.29	0.03	0.3
(1,1029)	1:79:A:LEU:HD11	1:79:A:LEU:HD23	10	0.29	0.03	0.3
(1,818)	1:90:A:TYR:HD1	1:90:A:TYR:HE1	10	0.29	0.01	0.29
(1,160)	1:72:A:HIS:HB2	1:90:A:TYR:HE2	10	0.29	0.1	0.29
(1,160)	1:72:A:HIS:HB2	1:90:A:TYR:HE1	10	0.29	0.1	0.29
(1,1114)	1:69:A:CYS:HA	1:77:A:LEU:HD21	10	0.28	0.11	0.3
(1,1114)	1:69:A:CYS:HA	1:77:A:LEU:HD22	10	0.28	0.11	0.3
(1,1114)	1:69:A:CYS:HA	1:77:A:LEU:HD23	10	0.28	0.11	0.3
(1,1096)	1:63:A:PHE:HD1	1:68:A:PHE:HE1	10	0.28	0.02	0.28
(1,1036)	1:58:A:ALA:HA	1:58:A:ALA:HB3	10	0.28	0.02	0.28
(1,1036)	1:58:A:ALA:HA	1:58:A:ALA:HB2	10	0.28	0.02	0.28
(1,1036)	1:58:A:ALA:HA	1:58:A:ALA:HB1	10	0.28	0.02	0.28
(1,182)	1:77:A:LEU:HD13	1:91:A:CYS:HA	10	0.28	0.04	0.28
(1,182)	1:77:A:LEU:HD12	1:91:A:CYS:HA	10	0.28	0.04	0.28
(1,182)	1:77:A:LEU:HD11	1:91:A:CYS:HA	10	0.28	0.04	0.28
(1,821)	1:95:A:PHE:HD1	1:95:A:PHE:HE1	10	0.28	0.02	0.28
(1,821)	1:95:A:PHE:HE2	1:95:A:PHE:HD2	10	0.28	0.02	0.28
(1,189)	1:91:A:CYS:H	1:77:A:LEU:HD21	10	0.27	0.06	0.28
(1,189)	1:91:A:CYS:H	1:77:A:LEU:HD23	10	0.27	0.06	0.28
(1,189)	1:91:A:CYS:H	1:77:A:LEU:HD22	10	0.27	0.06	0.28
(1,751)	1:50:A:VAL:HA	1:50:A:VAL:HG21	10	0.27	0.02	0.26
(1,751)	1:50:A:VAL:HA	1:50:A:VAL:HG22	10	0.27	0.02	0.26
(1,751)	1:50:A:VAL:HA	1:50:A:VAL:HG23	10	0.27	0.02	0.26
(1,955)	1:63:A:PHE:HB2	1:63:A:PHE:HD2	10	0.26	0.02	0.26
(1,955)	1:63:A:PHE:HB2	1:63:A:PHE:HD1	10	0.26	0.02	0.26
(1,1141)	1:49:A:THR:HB	1:49:A:THR:HG22	10	0.26	0.04	0.26

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1141)	1:49:A:THR:HB	1:49:A:THR:HG23	10	0.26	0.04	0.26
(1,1141)	1:57:A:VAL:HG22	1:60:A:LYS:HA	10	0.26	0.04	0.26
(1,1141)	1:49:A:THR:HB	1:49:A:THR:HG21	10	0.26	0.04	0.26
(1,1141)	1:57:A:VAL:HG21	1:60:A:LYS:HA	10	0.26	0.04	0.26
(1,207)	1:85:A:LEU:HD12	1:99:A:PHE:HD2	10	0.25	0.01	0.25
(1,207)	1:85:A:LEU:HD13	1:99:A:PHE:HD2	10	0.25	0.01	0.25
(1,207)	1:85:A:LEU:HD11	1:99:A:PHE:HD2	10	0.25	0.01	0.25
(1,1155)	1:98:A:LEU:HD21	1:98:A:LEU:HD13	10	0.25	0.02	0.26
(1,1155)	1:98:A:LEU:HD23	1:98:A:LEU:HD13	10	0.25	0.02	0.26
(1,1155)	1:98:A:LEU:HD22	1:98:A:LEU:HD13	10	0.25	0.02	0.26
(1,1155)	1:98:A:LEU:HD21	1:98:A:LEU:HD11	10	0.25	0.02	0.26
(1,1155)	1:98:A:LEU:HD23	1:98:A:LEU:HD12	10	0.25	0.02	0.26
(1,1155)	1:98:A:LEU:HD22	1:98:A:LEU:HD11	10	0.25	0.02	0.26
(1,808)	1:98:A:LEU:HD21	1:98:A:LEU:HD13	10	0.25	0.02	0.25
(1,808)	1:98:A:LEU:HD23	1:98:A:LEU:HD13	10	0.25	0.02	0.25
(1,808)	1:98:A:LEU:HD22	1:98:A:LEU:HD13	10	0.25	0.02	0.25
(1,808)	1:98:A:LEU:HD21	1:98:A:LEU:HD11	10	0.25	0.02	0.25
(1,808)	1:98:A:LEU:HD23	1:98:A:LEU:HD12	10	0.25	0.02	0.25
(1,808)	1:98:A:LEU:HD22	1:98:A:LEU:HD11	10	0.25	0.02	0.25
(1,862)	1:51:A:TYR:HD1	1:49:A:THR:HG22	10	0.25	0.04	0.26
(1,862)	1:51:A:TYR:HD1	1:49:A:THR:HG23	10	0.25	0.04	0.26
(1,862)	1:51:A:TYR:HD1	1:49:A:THR:HG21	10	0.25	0.04	0.26
(1,1030)	1:42:A:THR:HG22	1:49:A:THR:HG21	10	0.25	0.03	0.24
(1,1030)	1:42:A:THR:HG23	1:49:A:THR:HG22	10	0.25	0.03	0.24
(1,1030)	1:42:A:THR:HG21	1:49:A:THR:HG21	10	0.25	0.03	0.24
(1,1030)	1:42:A:THR:HG22	1:49:A:THR:HG23	10	0.25	0.03	0.24
(1,1030)	1:42:A:THR:HG21	1:49:A:THR:HG23	10	0.25	0.03	0.24
(1,1030)	1:42:A:THR:HG23	1:49:A:THR:HG21	10	0.25	0.03	0.24
(1,1030)	1:42:A:THR:HG21	1:49:A:THR:HG22	10	0.25	0.03	0.24
(1,940)	1:45:A:ALA:HB1	1:67:A:CYS:HB2	10	0.24	0.04	0.24
(1,940)	1:45:A:ALA:HB2	1:67:A:CYS:HB2	10	0.24	0.04	0.24
(1,940)	1:45:A:ALA:HB3	1:67:A:CYS:HB2	10	0.24	0.04	0.24
(1,759)	1:57:A:VAL:HG13	1:57:A:VAL:HA	10	0.24	0.02	0.24
(1,759)	1:57:A:VAL:HG11	1:57:A:VAL:HA	10	0.24	0.02	0.24
(1,759)	1:57:A:VAL:HG12	1:57:A:VAL:HA	10	0.24	0.02	0.24
(1,748)	1:49:A:THR:HB	1:49:A:THR:HG22	10	0.22	0.02	0.23
(1,748)	1:49:A:THR:HB	1:49:A:THR:HG23	10	0.22	0.02	0.23
(1,748)	1:49:A:THR:HB	1:49:A:THR:HG21	10	0.22	0.02	0.23
(1,1003)	1:82:A:TYR:HD2	1:79:A:LEU:HD22	10	0.22	0.03	0.22
(1,1003)	1:82:A:TYR:HD2	1:79:A:LEU:HD23	10	0.22	0.03	0.22
(1,1003)	1:82:A:TYR:HD2	1:79:A:LEU:HD21	10	0.22	0.03	0.22
(1,845)	1:63:A:PHE:HE2	1:45:A:ALA:HB2	10	0.22	0.03	0.22

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,845)	1:63:A:PHE:HE2	1:45:A:ALA:HB3	10	0.22	0.03	0.22
(1,845)	1:63:A:PHE:HE2	1:45:A:ALA:HB1	10	0.22	0.03	0.22
(1,280)	1:77:A:LEU:HD12	1:77:A:LEU:HD13	10	0.22	0.01	0.22
(1,280)	1:77:A:LEU:HD12	1:77:A:LEU:HD11	10	0.22	0.01	0.22
(1,280)	1:77:A:LEU:HD11	1:77:A:LEU:HD13	10	0.22	0.01	0.22
(1,978)	1:77:A:LEU:HD12	1:89:A:PHE:HB2	10	0.21	0.03	0.21
(1,978)	1:77:A:LEU:HD11	1:89:A:PHE:HB2	10	0.21	0.03	0.21
(1,978)	1:77:A:LEU:HD13	1:89:A:PHE:HB2	10	0.21	0.03	0.21
(1,881)	1:72:A:HIS:HE1	1:98:A:LEU:HD21	10	0.21	0.07	0.18
(1,881)	1:72:A:HIS:HE1	1:98:A:LEU:HD23	10	0.21	0.07	0.18
(1,881)	1:72:A:HIS:HE1	1:98:A:LEU:HD22	10	0.21	0.07	0.18
(1,188)	1:92:A:LYS:H	1:77:A:LEU:HD23	10	0.21	0.04	0.2
(1,188)	1:92:A:LYS:H	1:77:A:LEU:HD21	10	0.21	0.04	0.2
(1,188)	1:92:A:LYS:H	1:77:A:LEU:HD22	10	0.21	0.04	0.2
(1,944)	1:42:A:THR:HB	1:42:A:THR:HG23	10	0.2	0.01	0.2
(1,944)	1:42:A:THR:HB	1:42:A:THR:HG21	10	0.2	0.01	0.2
(1,944)	1:42:A:THR:HB	1:42:A:THR:HG22	10	0.2	0.01	0.2
(1,377)	1:51:A:TYR:H	1:50:A:VAL:HG21	10	0.2	0.04	0.2
(1,377)	1:51:A:TYR:H	1:50:A:VAL:HG22	10	0.2	0.04	0.2
(1,377)	1:51:A:TYR:H	1:50:A:VAL:HG23	10	0.2	0.04	0.2
(1,1131)	1:56:A:LEU:HG	1:56:A:LEU:HA	10	0.2	0.03	0.2
(1,923)	1:42:A:THR:HA	1:49:A:THR:HG21	10	0.2	0.03	0.21
(1,923)	1:42:A:THR:HA	1:49:A:THR:HG22	10	0.2	0.03	0.21
(1,923)	1:42:A:THR:HA	1:49:A:THR:HG23	10	0.2	0.03	0.21
(1,1121)	1:43:A:CYS:HA	1:50:A:VAL:HG22	10	0.18	0.04	0.17
(1,1121)	1:43:A:CYS:HA	1:50:A:VAL:HG23	10	0.18	0.04	0.17
(1,1121)	1:43:A:CYS:HA	1:50:A:VAL:HG21	10	0.18	0.04	0.17
(1,43)	1:43:A:CYS:HB3	1:50:A:VAL:HG21	10	0.18	0.01	0.18
(1,43)	1:43:A:CYS:HB3	1:50:A:VAL:HG22	10	0.18	0.01	0.18
(1,43)	1:43:A:CYS:HB3	1:50:A:VAL:HG23	10	0.18	0.01	0.18
(1,883)	1:61:A:LEU:HD13	1:63:A:PHE:HZ	10	0.16	0.01	0.16
(1,883)	1:61:A:LEU:HD11	1:63:A:PHE:HZ	10	0.16	0.01	0.16
(1,883)	1:61:A:LEU:HD12	1:63:A:PHE:HZ	10	0.16	0.01	0.16
(1,118)	1:62:A:ILE:HB	1:62:A:ILE:HG21	10	0.16	0.01	0.16
(1,118)	1:62:A:ILE:HB	1:62:A:ILE:HG23	10	0.16	0.01	0.16
(1,118)	1:62:A:ILE:HB	1:62:A:ILE:HG22	10	0.16	0.01	0.16
(1,891)	1:68:A:PHE:HE1	1:56:A:LEU:HD12	10	0.15	0.02	0.15
(1,891)	1:68:A:PHE:HE1	1:56:A:LEU:HD11	10	0.15	0.02	0.15
(1,891)	1:68:A:PHE:HE1	1:56:A:LEU:HD13	10	0.15	0.02	0.15
(1,769)	1:63:A:PHE:HE1	1:63:A:PHE:HZ	10	0.13	0.01	0.13
(1,933)	1:49:A:THR:HA	1:49:A:THR:HB	10	0.12	0.01	0.12
(1,927)	1:94:A:HIS:HE1	1:73:A:CYS:HB2	10	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,309)	1:43:A:CYS:H	1:62:A:ILE:HG21	9	0.45	0.11	0.38
(1,309)	1:43:A:CYS:H	1:62:A:ILE:HG23	9	0.45	0.11	0.38
(1,309)	1:43:A:CYS:H	1:62:A:ILE:HG22	9	0.45	0.11	0.38
(1,93)	1:58:A:ALA:HA	1:79:A:LEU:HD23	9	0.3	0.14	0.28
(1,93)	1:58:A:ALA:HA	1:79:A:LEU:HD21	9	0.3	0.14	0.28
(1,93)	1:58:A:ALA:HA	1:79:A:LEU:HD22	9	0.3	0.14	0.28
(1,1078)	1:77:A:LEU:H	1:68:A:PHE:HD2	9	0.3	0.11	0.3
(1,854)	1:82:A:TYR:HE2	1:79:A:LEU:HD11	9	0.21	0.02	0.21
(1,854)	1:82:A:TYR:HE2	1:79:A:LEU:HD13	9	0.21	0.02	0.21
(1,854)	1:82:A:TYR:HE2	1:79:A:LEU:HD12	9	0.21	0.02	0.21
(1,1098)	1:95:A:PHE:HA	1:90:A:TYR:HE2	9	0.19	0.04	0.2
(1,1098)	1:95:A:PHE:HA	1:99:A:PHE:HD2	9	0.19	0.04	0.2
(1,41)	1:50:A:VAL:HG11	1:50:A:VAL:HG22	9	0.13	0.02	0.13
(1,41)	1:50:A:VAL:HG13	1:50:A:VAL:HG23	9	0.13	0.02	0.13
(1,41)	1:50:A:VAL:HG11	1:50:A:VAL:HG21	9	0.13	0.02	0.13
(1,41)	1:50:A:VAL:HG11	1:50:A:VAL:HG23	9	0.13	0.02	0.13
(1,41)	1:50:A:VAL:HG13	1:50:A:VAL:HG21	9	0.13	0.02	0.13
(1,916)	1:52:A:PRO:HA	1:52:A:PRO:HB2	9	0.11	0.0	0.11
(1,1071)	1:65:A:ASN:H	1:54:A:GLU:HB2	8	0.36	0.12	0.35
(1,866)	1:95:A:PHE:HD2	1:83:A:ALA:HB2	8	0.33	0.18	0.29
(1,866)	1:95:A:PHE:HD2	1:83:A:ALA:HB1	8	0.33	0.18	0.29
(1,866)	1:95:A:PHE:HD2	1:83:A:ALA:HB3	8	0.33	0.18	0.29
(1,866)	1:95:A:PHE:HD1	1:83:A:ALA:HB3	8	0.33	0.18	0.29
(1,866)	1:95:A:PHE:HD1	1:83:A:ALA:HB1	8	0.33	0.18	0.29
(1,1087)	1:96:A:GLN:H	1:83:A:ALA:HB2	8	0.29	0.13	0.3
(1,1087)	1:96:A:GLN:H	1:83:A:ALA:HB3	8	0.29	0.13	0.3
(1,1087)	1:96:A:GLN:H	1:83:A:ALA:HB1	8	0.29	0.13	0.3
(1,867)	1:82:A:TYR:HE1	1:58:A:ALA:HB3	8	0.29	0.1	0.27
(1,867)	1:82:A:TYR:HE2	1:58:A:ALA:HB1	8	0.29	0.1	0.27
(1,867)	1:82:A:TYR:HE1	1:58:A:ALA:HB2	8	0.29	0.1	0.27
(1,867)	1:82:A:TYR:HE2	1:58:A:ALA:HB2	8	0.29	0.1	0.27
(1,867)	1:82:A:TYR:HE2	1:58:A:ALA:HB3	8	0.29	0.1	0.27
(1,1097)	1:84:A:ALA:HA	1:89:A:PHE:HD2	8	0.27	0.1	0.24
(1,1097)	1:84:A:ALA:HA	1:89:A:PHE:HD1	8	0.27	0.1	0.24
(1,275)	1:99:A:PHE:HB2	1:85:A:LEU:HD21	8	0.26	0.02	0.26
(1,275)	1:99:A:PHE:HB2	1:85:A:LEU:HD23	8	0.26	0.02	0.26
(1,275)	1:99:A:PHE:HB2	1:85:A:LEU:HD22	8	0.26	0.02	0.26
(1,1056)	1:84:A:ALA:HA	1:89:A:PHE:HD2	8	0.24	0.1	0.2
(1,1056)	1:84:A:ALA:HA	1:89:A:PHE:HD1	8	0.24	0.1	0.2
(1,192)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	8	0.17	0.04	0.19
(1,192)	1:79:A:LEU:HB2	1:79:A:LEU:HD11	8	0.17	0.04	0.19
(1,192)	1:79:A:LEU:HB2	1:79:A:LEU:HD13	8	0.17	0.04	0.19

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,48)	1:50:A:VAL:HG22	1:63:A:PHE:H	8	0.16	0.03	0.16
(1,48)	1:50:A:VAL:HG21	1:63:A:PHE:H	8	0.16	0.03	0.16
(1,48)	1:50:A:VAL:HG23	1:63:A:PHE:H	8	0.16	0.03	0.16
(1,146)	1:70:A:CYS:HA	1:77:A:LEU:HD12	8	0.15	0.05	0.12
(1,146)	1:70:A:CYS:HA	1:77:A:LEU:HD11	8	0.15	0.05	0.12
(1,146)	1:70:A:CYS:HA	1:77:A:LEU:HD13	8	0.15	0.05	0.12
(1,29)	1:50:A:VAL:H	1:49:A:THR:HG22	8	0.15	0.04	0.14
(1,29)	1:50:A:VAL:H	1:49:A:THR:HG21	8	0.15	0.04	0.14
(1,785)	1:78:A:SER:HB2	1:78:A:SER:HA	8	0.15	0.01	0.15
(1,264)	1:97:A:GLN:H	1:97:A:GLN:HB3	8	0.12	0.0	0.12
(1,868)	1:95:A:PHE:HE2	1:83:A:ALA:HB1	7	0.35	0.09	0.38
(1,868)	1:95:A:PHE:HE2	1:83:A:ALA:HB3	7	0.35	0.09	0.38
(1,868)	1:95:A:PHE:HE1	1:83:A:ALA:HB3	7	0.35	0.09	0.38
(1,868)	1:95:A:PHE:HE2	1:83:A:ALA:HB2	7	0.35	0.09	0.38
(1,868)	1:95:A:PHE:HE1	1:83:A:ALA:HB1	7	0.35	0.09	0.38
(1,1058)	1:61:A:LEU:H	1:59:A:ASP:HB2	7	0.33	0.05	0.31
(1,46)	1:43:A:CYS:H	1:50:A:VAL:HG23	7	0.25	0.06	0.24
(1,46)	1:43:A:CYS:H	1:50:A:VAL:HG22	7	0.25	0.06	0.24
(1,1109)	1:95:A:PHE:HE1	1:85:A:LEU:HA	7	0.25	0.05	0.27
(1,1004)	1:69:A:CYS:HA	1:77:A:LEU:HD21	7	0.21	0.05	0.18
(1,1004)	1:69:A:CYS:HA	1:77:A:LEU:HD22	7	0.21	0.05	0.18
(1,1004)	1:69:A:CYS:HA	1:77:A:LEU:HD23	7	0.21	0.05	0.18
(1,1006)	1:75:A:THR:HB	1:75:A:THR:HG23	7	0.2	0.01	0.21
(1,1006)	1:75:A:THR:HB	1:75:A:THR:HG21	7	0.2	0.01	0.21
(1,737)	1:68:A:PHE:H	1:68:A:PHE:HD1	7	0.18	0.03	0.17
(1,534)	1:71:A:LYS:H	1:77:A:LEU:HD12	7	0.18	0.05	0.18
(1,534)	1:71:A:LYS:H	1:77:A:LEU:HD11	7	0.18	0.05	0.18
(1,534)	1:71:A:LYS:H	1:77:A:LEU:HD13	7	0.18	0.05	0.18
(1,616)	1:84:A:ALA:H	1:83:A:ALA:HB1	7	0.16	0.03	0.17
(1,616)	1:84:A:ALA:H	1:83:A:ALA:HB3	7	0.16	0.03	0.17
(1,616)	1:84:A:ALA:H	1:83:A:ALA:HB2	7	0.16	0.03	0.17
(1,824)	1:89:A:PHE:HD2	1:63:A:PHE:HZ	7	0.13	0.02	0.12
(1,824)	1:89:A:PHE:HD1	1:63:A:PHE:HZ	7	0.13	0.02	0.12
(1,931)	1:95:A:PHE:HA	1:99:A:PHE:HD2	7	0.11	0.01	0.11
(1,639)	1:88:A:GLU:H	1:84:A:ALA:HB1	6	0.31	0.09	0.29
(1,639)	1:88:A:GLU:H	1:84:A:ALA:HB3	6	0.31	0.09	0.29
(1,639)	1:88:A:GLU:H	1:84:A:ALA:HB2	6	0.31	0.09	0.29
(1,1081)	1:88:A:GLU:H	1:90:A:TYR:HE1	6	0.23	0.06	0.24
(1,1095)	1:99:A:PHE:HE2	1:90:A:TYR:HD1	6	0.19	0.07	0.16
(1,972)	1:71:A:LYS:HG2	1:71:A:LYS:HE2	6	0.17	0.02	0.18
(1,205)	1:84:A:ALA:H	1:84:A:ALA:HB2	6	0.17	0.03	0.17
(1,205)	1:84:A:ALA:H	1:84:A:ALA:HB1	6	0.17	0.03	0.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,205)	1:84:A:ALA:H	1:84:A:ALA:HB3	6	0.17	0.03	0.17
(1,607)	1:83:A:ALA:H	1:82:A:TYR:HE1	6	0.15	0.04	0.13
(1,781)	1:71:A:LYS:HG2	1:71:A:LYS:HE2	6	0.14	0.02	0.15
(1,1014)	1:79:A:LEU:HD13	1:79:A:LEU:HG	6	0.12	0.01	0.12
(1,1014)	1:79:A:LEU:HD11	1:79:A:LEU:HG	6	0.12	0.01	0.12
(1,853)	1:84:A:ALA:HB2	1:82:A:TYR:HE1	5	0.36	0.15	0.47
(1,853)	1:84:A:ALA:HB3	1:82:A:TYR:HE1	5	0.36	0.15	0.47
(1,629)	1:87:A:GLY:H	1:84:A:ALA:HB1	5	0.31	0.14	0.34
(1,629)	1:87:A:GLY:H	1:84:A:ALA:HB3	5	0.31	0.14	0.34
(1,629)	1:87:A:GLY:H	1:84:A:ALA:HB2	5	0.31	0.14	0.34
(1,889)	1:79:A:LEU:HD21	1:68:A:PHE:HE1	5	0.27	0.11	0.22
(1,889)	1:79:A:LEU:HD22	1:68:A:PHE:HE1	5	0.27	0.11	0.22
(1,889)	1:79:A:LEU:HD23	1:68:A:PHE:HE1	5	0.27	0.11	0.22
(1,109)	1:61:A:LEU:H	1:61:A:LEU:HD21	5	0.23	0.06	0.27
(1,109)	1:61:A:LEU:H	1:61:A:LEU:HD22	5	0.23	0.06	0.27
(1,109)	1:61:A:LEU:H	1:61:A:LEU:HD23	5	0.23	0.06	0.27
(1,217)	1:89:A:PHE:HA	1:89:A:PHE:HD1	5	0.14	0.03	0.14
(1,877)	1:94:A:HIS:HE1	1:73:A:CYS:HA	5	0.13	0.02	0.14
(1,77)	1:55:A:ARG:HB3	1:50:A:VAL:HB	5	0.13	0.02	0.13
(1,1009)	1:70:A:CYS:HB3	1:77:A:LEU:HD23	5	0.13	0.02	0.12
(1,1009)	1:70:A:CYS:HB3	1:77:A:LEU:HD22	5	0.13	0.02	0.12
(1,1009)	1:70:A:CYS:HB3	1:77:A:LEU:HD21	5	0.13	0.02	0.12
(1,861)	1:49:A:THR:HG22	1:51:A:TYR:HE1	4	0.27	0.03	0.27
(1,861)	1:49:A:THR:HG23	1:51:A:TYR:HE1	4	0.27	0.03	0.27
(1,604)	1:82:A:TYR:H	1:77:A:LEU:HD22	4	0.25	0.02	0.24
(1,604)	1:82:A:TYR:H	1:77:A:LEU:HD23	4	0.25	0.02	0.24
(1,1123)	1:44:A:ALA:HA	1:47:A:GLN:HG3	4	0.12	0.0	0.12
(1,1123)	1:97:A:GLN:HG3	1:97:A:GLN:HA	4	0.12	0.0	0.12
(1,753)	1:51:A:TYR:HB2	1:51:A:TYR:HD1	4	0.11	0.0	0.11
(1,547)	1:73:A:CYS:H	1:73:A:CYS:HB2	4	0.11	0.01	0.11
(1,1011)	1:70:A:CYS:HB3	1:75:A:THR:HG22	3	0.31	0.02	0.31
(1,1011)	1:70:A:CYS:HB3	1:75:A:THR:HG23	3	0.31	0.02	0.31
(1,1011)	1:70:A:CYS:HB3	1:75:A:THR:HG21	3	0.31	0.02	0.31
(1,601)	1:82:A:TYR:H	1:92:A:LYS:HD2	3	0.26	0.06	0.24
(1,554)	1:75:A:THR:H	1:75:A:THR:HG22	3	0.22	0.05	0.25
(1,554)	1:75:A:THR:H	1:75:A:THR:HG23	3	0.22	0.05	0.25
(1,554)	1:75:A:THR:H	1:75:A:THR:HG21	3	0.22	0.05	0.25
(1,943)	1:70:A:CYS:HB2	1:75:A:THR:HG22	3	0.22	0.02	0.21
(1,943)	1:70:A:CYS:HB2	1:75:A:THR:HG23	3	0.22	0.02	0.21
(1,943)	1:70:A:CYS:HB2	1:75:A:THR:HG21	3	0.22	0.02	0.21
(1,437)	1:59:A:ASP:H	1:60:A:LYS:H	3	0.21	0.01	0.21
(1,719)	1:103:A:GLY:H	1:92:A:LYS:H	3	0.17	0.05	0.14

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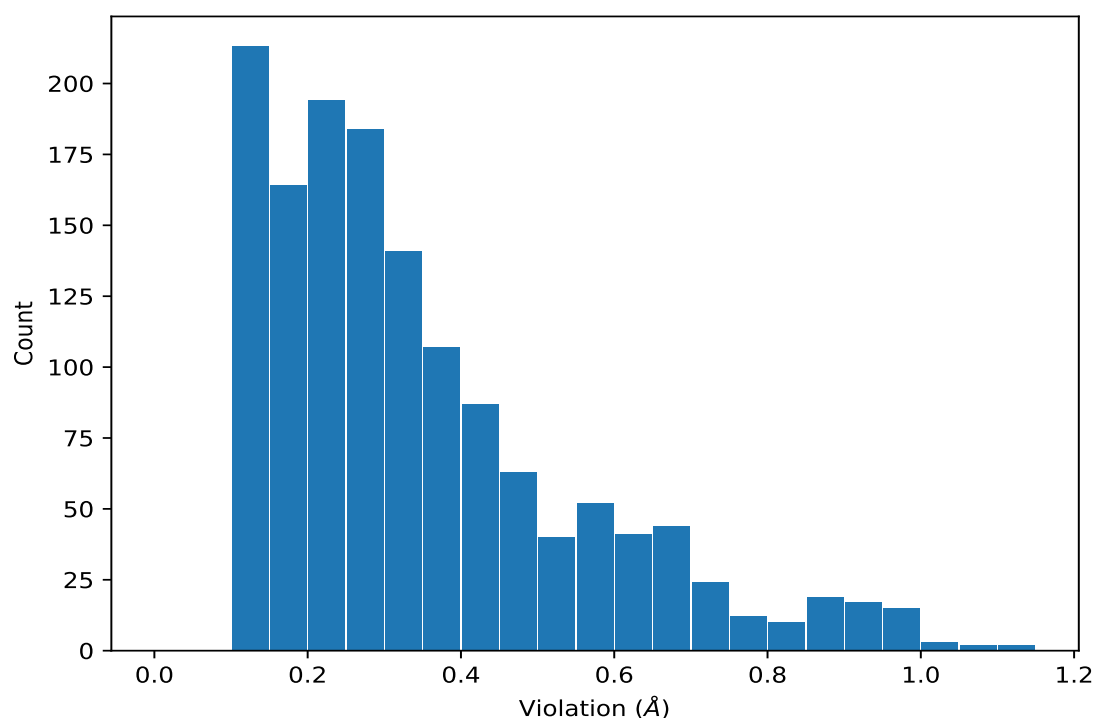
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,229)	1:91:A:CYS:HB3	1:93:A:PRO:HD2	3	0.11	0.0	0.11
(1,1049)	1:61:A:LEU:H	1:57:A:VAL:HG22	2	0.22	0.11	0.22
(1,815)	1:44:A:ALA:HB2	1:89:A:PHE:HZ	2	0.2	0.0	0.2
(1,815)	1:44:A:ALA:HB1	1:89:A:PHE:HZ	2	0.2	0.0	0.2
(1,1120)	1:49:A:THR:HA	1:42:A:THR:HG21	2	0.2	0.04	0.2
(1,1120)	1:49:A:THR:HA	1:42:A:THR:HG22	2	0.2	0.04	0.2
(1,443)	1:59:A:ASP:H	1:57:A:VAL:HG23	2	0.18	0.04	0.18
(1,443)	1:59:A:ASP:H	1:57:A:VAL:HG21	2	0.18	0.04	0.18
(1,1106)	1:44:A:ALA:HB2	1:89:A:PHE:HZ	2	0.15	0.0	0.15
(1,1106)	1:44:A:ALA:HB1	1:89:A:PHE:HZ	2	0.15	0.0	0.15
(1,76)	1:55:A:ARG:HB3	1:50:A:VAL:HG12	2	0.14	0.02	0.14
(1,18)	1:42:A:THR:HG22	1:47:A:GLN:HA	2	0.14	0.01	0.14
(1,18)	1:42:A:THR:HG23	1:47:A:GLN:HA	2	0.14	0.01	0.14
(1,1152)	1:50:A:VAL:HG11	1:63:A:PHE:HA	2	0.14	0.02	0.14
(1,1152)	1:50:A:VAL:HG13	1:63:A:PHE:HA	2	0.14	0.02	0.14
(1,297)	1:42:A:THR:H	1:42:A:THR:HG23	2	0.13	0.01	0.13
(1,297)	1:42:A:THR:H	1:42:A:THR:HG21	2	0.13	0.01	0.13
(1,153)	1:71:A:LYS:HA	1:71:A:LYS:HE2	2	0.12	0.02	0.12
(1,555)	1:76:A:LYS:H	1:75:A:THR:HG22	2	0.12	0.01	0.12
(1,595)	1:82:A:TYR:H	1:82:A:TYR:HD1	2	0.12	0.01	0.12
(1,300)	1:42:A:THR:H	1:41:A:GLU:HG3	2	0.12	0.01	0.12
(1,1077)	1:75:A:THR:H	1:74:A:HIS:HA	2	0.12	0.02	0.12
(1,735)	1:43:A:CYS:H	1:47:A:GLN:HB3	2	0.12	0.0	0.12
(1,96)	1:60:A:LYS:H	1:60:A:LYS:HA	2	0.11	0.0	0.11
(1,265)	1:96:A:GLN:HG3	1:103:A:GLY:H	2	0.11	0.0	0.11
(1,858)	1:44:A:ALA:HB3	1:63:A:PHE:HE2	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1149)	1:57:A:VAL:HG21	1:62:A:ILE:HG23	9	1.14
(1,1149)	1:57:A:VAL:HG22	1:62:A:ILE:HG22	3	1.11
(1,1149)	1:57:A:VAL:HG23	1:62:A:ILE:HG22	7	1.05
(1,1063)	1:44:A:ALA:H	1:50:A:VAL:HG11	1	1.05
(1,1149)	1:57:A:VAL:HG21	1:62:A:ILE:HG23	1	1.04
(1,1149)	1:57:A:VAL:HG23	1:62:A:ILE:HG22	10	1.0
(1,1061)	1:98:A:LEU:HD11	1:98:A:LEU:HA	3	1.0
(1,1149)	1:57:A:VAL:HG22	1:62:A:ILE:HG23	2	0.99
(1,1149)	1:57:A:VAL:HG21	1:62:A:ILE:HG23	5	0.99
(1,344)	1:47:A:GLN:H	1:44:A:ALA:HB3	6	0.99
(1,344)	1:47:A:GLN:H	1:44:A:ALA:HB1	9	0.98
(1,1149)	1:57:A:VAL:HG23	1:62:A:ILE:HG23	6	0.97
(1,1061)	1:98:A:LEU:HD12	1:98:A:LEU:HA	4	0.97
(1,1061)	1:98:A:LEU:HD11	1:98:A:LEU:HA	5	0.97
(1,1061)	1:98:A:LEU:HD13	1:98:A:LEU:HA	7	0.97
(1,1061)	1:98:A:LEU:HD12	1:98:A:LEU:HA	8	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1149)	1:57:A:VAL:HG21	1:62:A:ILE:HG21	4	0.96
(1,1061)	1:98:A:LEU:HD11	1:98:A:LEU:HA	9	0.96
(1,344)	1:47:A:GLN:H	1:44:A:ALA:HB2	10	0.96
(1,1061)	1:98:A:LEU:HD12	1:98:A:LEU:HA	6	0.95
(1,344)	1:47:A:GLN:H	1:44:A:ALA:HB1	1	0.95
(1,344)	1:47:A:GLN:H	1:44:A:ALA:HB2	3	0.95
(1,1151)	1:63:A:PHE:HD1	1:58:A:ALA:HB1	6	0.94
(1,1149)	1:57:A:VAL:HG23	1:62:A:ILE:HG23	8	0.94
(1,442)	1:59:A:ASP:H	1:79:A:LEU:HD22	9	0.94
(1,344)	1:47:A:GLN:H	1:44:A:ALA:HB3	5	0.94
(1,1093)	1:82:A:TYR:HD2	1:77:A:LEU:HD12	9	0.93
(1,1061)	1:98:A:LEU:HD12	1:98:A:LEU:HA	1	0.93
(1,1061)	1:98:A:LEU:HD11	1:98:A:LEU:HA	2	0.93
(1,344)	1:47:A:GLN:H	1:44:A:ALA:HB2	8	0.93
(1,344)	1:47:A:GLN:H	1:44:A:ALA:HB3	4	0.92
(1,1113)	1:82:A:TYR:HA	1:83:A:ALA:HB2	3	0.91
(1,1113)	1:84:A:ALA:HA	1:83:A:ALA:HB1	10	0.91
(1,1061)	1:98:A:LEU:HD11	1:98:A:LEU:HA	10	0.91
(1,1027)	1:62:A:ILE:HD12	1:57:A:VAL:HG12	4	0.91
(1,344)	1:47:A:GLN:H	1:44:A:ALA:HB2	2	0.91
(1,344)	1:47:A:GLN:H	1:44:A:ALA:HB1	7	0.91
(1,1027)	1:62:A:ILE:HD12	1:57:A:VAL:HG11	1	0.9
(1,1027)	1:62:A:ILE:HD12	1:57:A:VAL:HG13	6	0.9
(1,1113)	1:82:A:TYR:HA	1:83:A:ALA:HB1	2	0.89
(1,1113)	1:82:A:TYR:HA	1:83:A:ALA:HB2	8	0.89
(1,1151)	1:63:A:PHE:HD1	1:58:A:ALA:HB2	2	0.88
(1,1113)	1:82:A:TYR:HA	1:83:A:ALA:HB2	5	0.88
(1,1113)	1:82:A:TYR:HA	1:83:A:ALA:HB1	9	0.88
(1,1063)	1:44:A:ALA:H	1:50:A:VAL:HG13	10	0.88
(1,1027)	1:62:A:ILE:HD13	1:57:A:VAL:HG13	10	0.88
(1,442)	1:59:A:ASP:H	1:79:A:LEU:HD22	5	0.88
(1,1113)	1:82:A:TYR:HA	1:83:A:ALA:HB1	6	0.87
(1,1113)	1:82:A:TYR:HA	1:83:A:ALA:HB2	4	0.86
(1,1093)	1:82:A:TYR:HD2	1:77:A:LEU:HD11	6	0.86
(1,1063)	1:44:A:ALA:H	1:50:A:VAL:HG13	9	0.86
(1,1151)	1:63:A:PHE:HD1	1:58:A:ALA:HB1	3	0.85
(1,1134)	1:89:A:PHE:HE1	1:44:A:ALA:HB3	6	0.85
(1,1063)	1:44:A:ALA:H	1:50:A:VAL:HG13	2	0.85
(1,1063)	1:44:A:ALA:H	1:50:A:VAL:HG11	3	0.85
(1,1063)	1:44:A:ALA:H	1:50:A:VAL:HG13	6	0.85
(1,1027)	1:62:A:ILE:HD12	1:57:A:VAL:HG11	8	0.85
(1,892)	1:68:A:PHE:HE2	1:58:A:ALA:HB3	8	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1151)	1:63:A:PHE:HD1	1:58:A:ALA:HB3	5	0.84
(1,1113)	1:82:A:TYR:HA	1:83:A:ALA:HB3	1	0.84
(1,1093)	1:82:A:TYR:HD1	1:77:A:LEU:HD13	2	0.84
(1,1063)	1:44:A:ALA:H	1:50:A:VAL:HG11	4	0.83
(1,1063)	1:44:A:ALA:H	1:50:A:VAL:HG13	7	0.83
(1,1151)	1:63:A:PHE:HD1	1:58:A:ALA:HB2	4	0.82
(1,1093)	1:89:A:PHE:HD2	1:77:A:LEU:HD11	5	0.82
(1,1151)	1:63:A:PHE:HD1	1:58:A:ALA:HB3	9	0.81
(1,1151)	1:63:A:PHE:HD1	1:58:A:ALA:HB2	10	0.81
(1,1093)	1:82:A:TYR:HD2	1:77:A:LEU:HD13	10	0.8
(1,1080)	1:81:A:SER:H	1:79:A:LEU:HB2	3	0.79
(1,1151)	1:63:A:PHE:HD1	1:58:A:ALA:HB1	1	0.78
(1,1113)	1:82:A:TYR:HA	1:83:A:ALA:HB1	7	0.78
(1,1093)	1:82:A:TYR:HD1	1:77:A:LEU:HD13	1	0.78
(1,1027)	1:62:A:ILE:HD12	1:57:A:VAL:HG11	2	0.78
(1,1024)	1:56:A:LEU:HD11	1:79:A:LEU:HD12	2	0.77
(1,892)	1:68:A:PHE:HE2	1:58:A:ALA:HB2	9	0.77
(1,1076)	1:71:A:LYS:H	1:75:A:THR:H	10	0.76
(1,892)	1:68:A:PHE:HE2	1:58:A:ALA:HB1	4	0.76
(1,892)	1:68:A:PHE:HE2	1:58:A:ALA:HB3	10	0.76
(1,1134)	1:89:A:PHE:HE1	1:44:A:ALA:HB3	5	0.75
(1,1027)	1:62:A:ILE:HD12	1:57:A:VAL:HG11	7	0.75
(1,1134)	1:89:A:PHE:HE1	1:44:A:ALA:HB2	1	0.74
(1,1063)	1:44:A:ALA:H	1:50:A:VAL:HG13	5	0.74
(1,1063)	1:44:A:ALA:H	1:50:A:VAL:HG13	8	0.74
(1,1024)	1:56:A:LEU:HD12	1:79:A:LEU:HD13	6	0.74
(1,892)	1:68:A:PHE:HE2	1:58:A:ALA:HB2	7	0.74
(1,866)	1:95:A:PHE:HD2	1:83:A:ALA:HB2	7	0.74
(1,1134)	1:89:A:PHE:HE1	1:44:A:ALA:HB3	10	0.73
(1,1093)	1:82:A:TYR:HD2	1:77:A:LEU:HD11	8	0.73
(1,1074)	1:68:A:PHE:H	1:56:A:LEU:HD12	1	0.73
(1,1027)	1:62:A:ILE:HD13	1:57:A:VAL:HG11	9	0.73
(1,892)	1:68:A:PHE:HE2	1:58:A:ALA:HB3	1	0.73
(1,442)	1:59:A:ASP:H	1:79:A:LEU:HD23	3	0.73
(1,1134)	1:89:A:PHE:HE1	1:44:A:ALA:HB3	4	0.72
(1,1134)	1:89:A:PHE:HE1	1:44:A:ALA:HB1	9	0.72
(1,1024)	1:56:A:LEU:HD13	1:79:A:LEU:HD12	5	0.72
(1,892)	1:68:A:PHE:HE2	1:58:A:ALA:HB1	5	0.72
(1,442)	1:59:A:ASP:H	1:79:A:LEU:HD23	10	0.72
(1,1076)	1:75:A:THR:H	1:91:A:CYS:H	5	0.71
(1,1076)	1:71:A:LYS:H	1:75:A:THR:H	8	0.71
(1,1050)	1:57:A:VAL:HG13	1:56:A:LEU:HA	8	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,493)	1:65:A:ASN:H	1:50:A:VAL:HG23	2	0.71
(1,1076)	1:75:A:THR:H	1:91:A:CYS:H	6	0.7
(1,1074)	1:68:A:PHE:H	1:56:A:LEU:HD11	3	0.7
(1,120)	1:62:A:ILE:H	1:62:A:ILE:HG23	9	0.7
(1,1093)	1:82:A:TYR:HD2	1:77:A:LEU:HD13	4	0.69
(1,1074)	1:68:A:PHE:H	1:56:A:LEU:HD12	2	0.69
(1,1074)	1:68:A:PHE:H	1:56:A:LEU:HD11	4	0.69
(1,1074)	1:68:A:PHE:H	1:56:A:LEU:HD12	10	0.69
(1,120)	1:62:A:ILE:H	1:62:A:ILE:HG23	2	0.69
(1,120)	1:62:A:ILE:H	1:62:A:ILE:HG21	4	0.69
(1,120)	1:62:A:ILE:H	1:62:A:ILE:HG21	5	0.69
(1,1140)	1:61:A:LEU:HA	1:61:A:LEU:HD11	10	0.68
(1,1134)	1:89:A:PHE:HE1	1:44:A:ALA:HB2	3	0.68
(1,1122)	1:56:A:LEU:HD22	1:56:A:LEU:HA	6	0.68
(1,1074)	1:68:A:PHE:H	1:56:A:LEU:HD13	8	0.68
(1,1074)	1:68:A:PHE:H	1:56:A:LEU:HD13	9	0.68
(1,493)	1:65:A:ASN:H	1:50:A:VAL:HG21	5	0.68
(1,442)	1:59:A:ASP:H	1:79:A:LEU:HD21	4	0.68
(1,420)	1:56:A:LEU:H	1:56:A:LEU:HD12	10	0.68
(1,120)	1:62:A:ILE:H	1:62:A:ILE:HG23	1	0.68
(1,120)	1:62:A:ILE:H	1:62:A:ILE:HG22	3	0.68
(1,120)	1:62:A:ILE:H	1:62:A:ILE:HG23	6	0.68
(1,120)	1:62:A:ILE:H	1:62:A:ILE:HG22	7	0.68
(1,120)	1:62:A:ILE:H	1:62:A:ILE:HG23	8	0.68
(1,120)	1:62:A:ILE:H	1:62:A:ILE:HG22	10	0.68
(1,1148)	1:57:A:VAL:HG22	1:60:A:LYS:HG3	7	0.67
(1,1122)	1:56:A:LEU:HD22	1:56:A:LEU:HA	5	0.67
(1,1122)	1:56:A:LEU:HD22	1:56:A:LEU:HA	9	0.67
(1,1076)	1:71:A:LYS:H	1:75:A:THR:H	2	0.67
(1,1062)	1:98:A:LEU:HD23	1:90:A:TYR:HE2	1	0.67
(1,1024)	1:56:A:LEU:HD12	1:79:A:LEU:HD13	9	0.67
(1,510)	1:69:A:CYS:H	1:68:A:PHE:HD1	2	0.67
(1,510)	1:69:A:CYS:H	1:68:A:PHE:HD2	10	0.67
(1,420)	1:56:A:LEU:H	1:56:A:LEU:HD12	1	0.67
(1,1138)	1:57:A:VAL:HG23	1:61:A:LEU:HA	7	0.66
(1,1122)	1:56:A:LEU:HD22	1:56:A:LEU:HA	4	0.66
(1,1076)	1:71:A:LYS:H	1:75:A:THR:H	4	0.66
(1,1027)	1:62:A:ILE:HD12	1:57:A:VAL:HG12	5	0.66
(1,510)	1:69:A:CYS:H	1:68:A:PHE:HD2	3	0.66
(1,420)	1:56:A:LEU:H	1:56:A:LEU:HD13	7	0.66
(1,1151)	1:63:A:PHE:HD1	1:58:A:ALA:HB3	7	0.65
(1,1140)	1:61:A:LEU:HA	1:61:A:LEU:HD12	1	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1134)	1:89:A:PHE:HE1	1:44:A:ALA:HB2	2	0.65
(1,1074)	1:68:A:PHE:H	1:56:A:LEU:HD13	6	0.65
(1,1024)	1:56:A:LEU:HD11	1:79:A:LEU:HD13	1	0.65
(1,892)	1:68:A:PHE:HE2	1:58:A:ALA:HB2	3	0.65
(1,420)	1:56:A:LEU:H	1:56:A:LEU:HD11	3	0.65
(1,420)	1:56:A:LEU:H	1:56:A:LEU:HD11	4	0.65
(1,1140)	1:61:A:LEU:HA	1:61:A:LEU:HD11	3	0.64
(1,1076)	1:71:A:LYS:H	1:75:A:THR:H	1	0.64
(1,1050)	1:57:A:VAL:HG21	1:58:A:ALA:HA	6	0.64
(1,1027)	1:62:A:ILE:HD12	1:57:A:VAL:HG12	3	0.64
(1,442)	1:59:A:ASP:H	1:79:A:LEU:HD22	7	0.64
(1,1151)	1:63:A:PHE:HD1	1:58:A:ALA:HB1	8	0.63
(1,1140)	1:61:A:LEU:HA	1:61:A:LEU:HD12	8	0.63
(1,1138)	1:57:A:VAL:HG21	1:58:A:ALA:HA	8	0.63
(1,1122)	1:58:A:ALA:HA	1:56:A:LEU:HD21	7	0.63
(1,1093)	1:82:A:TYR:HD2	1:77:A:LEU:HD12	7	0.63
(1,1076)	1:71:A:LYS:H	1:75:A:THR:H	9	0.63
(1,1074)	1:68:A:PHE:H	1:56:A:LEU:HD13	7	0.63
(1,549)	1:73:A:CYS:H	1:90:A:TYR:HD2	8	0.63
(1,510)	1:69:A:CYS:H	1:68:A:PHE:HD2	7	0.63
(1,493)	1:65:A:ASN:H	1:50:A:VAL:HG23	7	0.63
(1,420)	1:56:A:LEU:H	1:56:A:LEU:HD13	8	0.63
(1,1140)	1:61:A:LEU:HA	1:61:A:LEU:HD12	7	0.62
(1,1138)	1:57:A:VAL:HG22	1:58:A:ALA:HA	5	0.62
(1,1134)	1:89:A:PHE:HE2	1:44:A:ALA:HB1	7	0.62
(1,1107)	1:85:A:LEU:HD13	1:99:A:PHE:HD2	10	0.62
(1,1093)	1:82:A:TYR:HD2	1:77:A:LEU:HD13	3	0.62
(1,1074)	1:68:A:PHE:H	1:56:A:LEU:HD11	5	0.62
(1,892)	1:68:A:PHE:HE2	1:58:A:ALA:HB2	2	0.62
(1,892)	1:68:A:PHE:HE2	1:58:A:ALA:HB1	6	0.62
(1,510)	1:69:A:CYS:H	1:68:A:PHE:HD2	9	0.62
(1,493)	1:65:A:ASN:H	1:50:A:VAL:HG23	9	0.62
(1,442)	1:59:A:ASP:H	1:79:A:LEU:HD21	8	0.62
(1,1122)	1:58:A:ALA:HA	1:56:A:LEU:HD22	10	0.61
(1,1107)	1:85:A:LEU:HD11	1:99:A:PHE:HD2	9	0.61
(1,1062)	1:98:A:LEU:HD22	1:90:A:TYR:HE2	2	0.61
(1,1062)	1:98:A:LEU:HD23	1:90:A:TYR:HE2	8	0.61
(1,1024)	1:56:A:LEU:HD13	1:79:A:LEU:HD12	3	0.61
(1,420)	1:56:A:LEU:H	1:56:A:LEU:HD13	9	0.61
(1,1138)	1:57:A:VAL:HG22	1:58:A:ALA:HA	9	0.6
(1,1138)	1:57:A:VAL:HG21	1:58:A:ALA:HA	10	0.6
(1,1107)	1:85:A:LEU:HD12	1:99:A:PHE:HD2	1	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1107)	1:85:A:LEU:HD13	1:99:A:PHE:HD2	4	0.6
(1,1107)	1:85:A:LEU:HD11	1:99:A:PHE:HD2	8	0.6
(1,1062)	1:98:A:LEU:HD23	1:90:A:TYR:HE2	4	0.6
(1,1050)	1:57:A:VAL:HG13	1:56:A:LEU:HA	7	0.6
(1,510)	1:69:A:CYS:H	1:68:A:PHE:HD1	5	0.6
(1,1140)	1:61:A:LEU:HA	1:61:A:LEU:HD11	9	0.59
(1,1138)	1:57:A:VAL:HG22	1:58:A:ALA:HA	1	0.59
(1,1115)	1:77:A:LEU:HD11	1:91:A:CYS:HA	7	0.59
(1,1107)	1:85:A:LEU:HD13	1:99:A:PHE:HD2	2	0.59
(1,1107)	1:85:A:LEU:HD13	1:99:A:PHE:HD2	5	0.59
(1,1107)	1:85:A:LEU:HD11	1:99:A:PHE:HD2	6	0.59
(1,1107)	1:85:A:LEU:HD13	1:99:A:PHE:HD2	7	0.59
(1,1062)	1:98:A:LEU:HD21	1:90:A:TYR:HE2	10	0.59
(1,1041)	1:79:A:LEU:HD21	1:58:A:ALA:HB2	3	0.59
(1,766)	1:62:A:ILE:HG12	1:62:A:ILE:HG22	6	0.59
(1,510)	1:69:A:CYS:H	1:68:A:PHE:HD2	8	0.59
(1,420)	1:56:A:LEU:H	1:56:A:LEU:HD12	2	0.59
(1,420)	1:56:A:LEU:H	1:56:A:LEU:HD11	5	0.59
(1,1146)	1:85:A:LEU:HD13	1:85:A:LEU:HB3	7	0.58
(1,1107)	1:85:A:LEU:HD12	1:99:A:PHE:HD2	3	0.58
(1,1087)	1:96:A:GLN:H	1:83:A:ALA:HB3	10	0.58
(1,1076)	1:71:A:LYS:H	1:75:A:THR:H	7	0.58
(1,1050)	1:57:A:VAL:HG13	1:56:A:LEU:HA	2	0.58
(1,766)	1:62:A:ILE:HG12	1:62:A:ILE:HG22	1	0.58
(1,766)	1:62:A:ILE:HG12	1:62:A:ILE:HG23	5	0.58
(1,766)	1:62:A:ILE:HG12	1:62:A:ILE:HG23	9	0.58
(1,420)	1:56:A:LEU:H	1:56:A:LEU:HD13	6	0.58
(1,309)	1:43:A:CYS:H	1:62:A:ILE:HG23	3	0.58
(1,1140)	1:75:A:THR:HG21	1:74:A:HIS:HA	4	0.57
(1,1138)	1:57:A:VAL:HG22	1:61:A:LEU:HA	3	0.57
(1,1122)	1:58:A:ALA:HA	1:56:A:LEU:HD22	2	0.57
(1,1080)	1:81:A:SER:H	1:79:A:LEU:HB2	6	0.57
(1,1062)	1:98:A:LEU:HD22	1:90:A:TYR:HE2	5	0.57
(1,1062)	1:98:A:LEU:HD23	1:90:A:TYR:HE2	6	0.57
(1,1062)	1:98:A:LEU:HD23	1:90:A:TYR:HE2	9	0.57
(1,1045)	1:68:A:PHE:HE2	1:77:A:LEU:HD12	9	0.57
(1,1024)	1:56:A:LEU:HD12	1:79:A:LEU:HD11	8	0.57
(1,975)	1:95:A:PHE:HB3	1:83:A:ALA:HB3	2	0.57
(1,975)	1:95:A:PHE:HB3	1:83:A:ALA:HB3	10	0.57
(1,766)	1:62:A:ILE:HG12	1:62:A:ILE:HG21	4	0.57
(1,309)	1:43:A:CYS:H	1:62:A:ILE:HG21	1	0.57
(1,309)	1:43:A:CYS:H	1:62:A:ILE:HG21	6	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1146)	1:85:A:LEU:HD13	1:85:A:LEU:HB3	4	0.56
(1,1146)	1:85:A:LEU:HD11	1:85:A:LEU:HB3	8	0.56
(1,1138)	1:57:A:VAL:HG23	1:58:A:ALA:HA	2	0.56
(1,1122)	1:58:A:ALA:HA	1:56:A:LEU:HD22	8	0.56
(1,1024)	1:56:A:LEU:HD13	1:79:A:LEU:HD13	4	0.56
(1,766)	1:62:A:ILE:HG12	1:62:A:ILE:HG23	2	0.56
(1,766)	1:62:A:ILE:HG12	1:62:A:ILE:HG22	3	0.56
(1,766)	1:62:A:ILE:HG12	1:62:A:ILE:HG22	10	0.56
(1,30)	1:49:A:THR:H	1:49:A:THR:HG21	1	0.56
(1,1146)	1:85:A:LEU:HD12	1:85:A:LEU:HB3	1	0.55
(1,1062)	1:98:A:LEU:HD21	1:90:A:TYR:HE2	3	0.55
(1,493)	1:65:A:ASN:H	1:50:A:VAL:HG23	4	0.55
(1,493)	1:65:A:ASN:H	1:50:A:VAL:HG23	6	0.55
(1,309)	1:43:A:CYS:H	1:62:A:ILE:HG22	4	0.55
(1,93)	1:58:A:ALA:HA	1:79:A:LEU:HD22	9	0.55
(1,1146)	1:85:A:LEU:HD13	1:85:A:LEU:HB3	2	0.54
(1,1076)	1:71:A:LYS:H	1:75:A:THR:H	3	0.54
(1,1062)	1:98:A:LEU:HD21	1:90:A:TYR:HE2	7	0.54
(1,766)	1:62:A:ILE:HG12	1:62:A:ILE:HG22	7	0.54
(1,1146)	1:85:A:LEU:HD11	1:85:A:LEU:HB3	6	0.53
(1,1146)	1:85:A:LEU:HD11	1:85:A:LEU:HB3	9	0.53
(1,1115)	1:77:A:LEU:HD12	1:91:A:CYS:HA	3	0.53
(1,1115)	1:77:A:LEU:HD13	1:91:A:CYS:HA	6	0.53
(1,1050)	1:57:A:VAL:HG13	1:56:A:LEU:HA	1	0.53
(1,1045)	1:68:A:PHE:HE2	1:77:A:LEU:HD13	4	0.53
(1,1045)	1:68:A:PHE:HE2	1:77:A:LEU:HD12	7	0.53
(1,1045)	1:68:A:PHE:HE2	1:77:A:LEU:HD11	8	0.53
(1,1024)	1:56:A:LEU:HD11	1:79:A:LEU:HD11	10	0.53
(1,766)	1:62:A:ILE:HG12	1:62:A:ILE:HG23	8	0.53
(1,38)	1:50:A:VAL:H	1:50:A:VAL:HG12	3	0.53
(1,1146)	1:85:A:LEU:HD12	1:85:A:LEU:HB3	3	0.52
(1,1134)	1:89:A:PHE:HE1	1:44:A:ALA:HB2	8	0.52
(1,1122)	1:58:A:ALA:HA	1:56:A:LEU:HD22	1	0.52
(1,1071)	1:65:A:ASN:H	1:54:A:GLU:HB2	5	0.52
(1,1050)	1:57:A:VAL:HG11	1:56:A:LEU:HA	3	0.52
(1,1050)	1:57:A:VAL:HG11	1:56:A:LEU:HA	4	0.52
(1,975)	1:95:A:PHE:HB3	1:83:A:ALA:HB2	6	0.52
(1,846)	1:89:A:PHE:HD1	1:45:A:ALA:HB1	2	0.52
(1,493)	1:65:A:ASN:H	1:50:A:VAL:HG21	3	0.52
(1,493)	1:65:A:ASN:H	1:50:A:VAL:HG23	8	0.52
(1,442)	1:59:A:ASP:H	1:79:A:LEU:HD23	1	0.52
(1,1122)	1:58:A:ALA:HA	1:56:A:LEU:HD22	3	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,510)	1:69:A:CYS:H	1:68:A:PHE:HD2	6	0.51
(1,38)	1:50:A:VAL:H	1:50:A:VAL:HG12	1	0.51
(1,30)	1:49:A:THR:H	1:49:A:THR:HG22	9	0.51
(1,1148)	1:57:A:VAL:HG23	1:60:A:LYS:HG3	1	0.5
(1,1146)	1:85:A:LEU:HD13	1:85:A:LEU:HB3	5	0.5
(1,1146)	1:85:A:LEU:HD13	1:85:A:LEU:HB3	10	0.5
(1,1138)	1:57:A:VAL:HG21	1:58:A:ALA:HA	6	0.5
(1,1115)	1:77:A:LEU:HD13	1:91:A:CYS:HA	2	0.5
(1,1115)	1:77:A:LEU:HD12	1:91:A:CYS:HA	4	0.5
(1,1080)	1:81:A:SER:H	1:79:A:LEU:HB2	4	0.5
(1,1071)	1:65:A:ASN:H	1:54:A:GLU:HB2	4	0.5
(1,1047)	1:77:A:LEU:HB3	1:77:A:LEU:HD11	1	0.5
(1,1045)	1:68:A:PHE:HE2	1:77:A:LEU:HD11	6	0.5
(1,1115)	1:77:A:LEU:HD11	1:91:A:CYS:HA	9	0.49
(1,1104)	1:90:A:TYR:HD2	1:98:A:LEU:HB2	9	0.49
(1,1090)	1:67:A:CYS:H	1:79:A:LEU:HB2	7	0.49
(1,1047)	1:77:A:LEU:HB3	1:77:A:LEU:HD12	4	0.49
(1,1047)	1:77:A:LEU:HB3	1:77:A:LEU:HD11	9	0.49
(1,1047)	1:77:A:LEU:HB3	1:77:A:LEU:HD12	10	0.49
(1,1045)	1:68:A:PHE:HE2	1:77:A:LEU:HD11	1	0.49
(1,1045)	1:68:A:PHE:HE2	1:77:A:LEU:HD11	2	0.49
(1,1045)	1:68:A:PHE:HE2	1:77:A:LEU:HD13	10	0.49
(1,889)	1:79:A:LEU:HD22	1:68:A:PHE:HE1	2	0.49
(1,853)	1:84:A:ALA:HB2	1:82:A:TYR:HE1	5	0.49
(1,629)	1:87:A:GLY:H	1:84:A:ALA:HB2	6	0.49
(1,549)	1:73:A:CYS:H	1:90:A:TYR:HD1	4	0.49
(1,510)	1:69:A:CYS:H	1:68:A:PHE:HD2	1	0.49
(1,442)	1:59:A:ASP:H	1:79:A:LEU:HD21	2	0.49
(1,38)	1:50:A:VAL:H	1:50:A:VAL:HG11	8	0.49
(1,38)	1:50:A:VAL:H	1:50:A:VAL:HG11	9	0.49
(1,1148)	1:57:A:VAL:HG22	1:60:A:LYS:HG3	8	0.48
(1,1115)	1:77:A:LEU:HD13	1:91:A:CYS:HA	1	0.48
(1,1115)	1:77:A:LEU:HD13	1:91:A:CYS:HA	8	0.48
(1,1104)	1:82:A:TYR:HD2	1:79:A:LEU:HD23	4	0.48
(1,1047)	1:77:A:LEU:HB3	1:77:A:LEU:HD13	6	0.48
(1,868)	1:95:A:PHE:HE2	1:83:A:ALA:HB2	7	0.48
(1,867)	1:82:A:TYR:HE1	1:58:A:ALA:HB2	6	0.48
(1,853)	1:84:A:ALA:HB2	1:82:A:TYR:HE1	3	0.48
(1,1148)	1:57:A:VAL:HG23	1:60:A:LYS:HG3	5	0.47
(1,1115)	1:77:A:LEU:HD12	1:91:A:CYS:HA	10	0.47
(1,1097)	1:84:A:ALA:HA	1:89:A:PHE:HD1	7	0.47
(1,1090)	1:67:A:CYS:H	1:79:A:LEU:HB2	4	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1071)	1:65:A:ASN:H	1:54:A:GLU:HB2	6	0.47
(1,1045)	1:68:A:PHE:HE2	1:77:A:LEU:HD13	5	0.47
(1,1024)	1:56:A:LEU:HD12	1:79:A:LEU:HD11	7	0.47
(1,975)	1:95:A:PHE:HB3	1:83:A:ALA:HB1	1	0.47
(1,864)	1:86:A:HIS:HD2	1:85:A:LEU:HD13	8	0.47
(1,853)	1:84:A:ALA:HB3	1:82:A:TYR:HE1	9	0.47
(1,639)	1:88:A:GLU:H	1:84:A:ALA:HB2	6	0.47
(1,38)	1:50:A:VAL:H	1:50:A:VAL:HG11	7	0.47
(1,1148)	1:57:A:VAL:HG23	1:60:A:LYS:HG3	9	0.46
(1,1140)	1:75:A:THR:HG23	1:74:A:HIS:HA	2	0.46
(1,1104)	1:90:A:TYR:HD2	1:98:A:LEU:HB2	5	0.46
(1,1104)	1:90:A:TYR:HD2	1:98:A:LEU:HB2	7	0.46
(1,1104)	1:82:A:TYR:HD2	1:79:A:LEU:HD23	8	0.46
(1,1104)	1:90:A:TYR:HD2	1:98:A:LEU:HB2	10	0.46
(1,1090)	1:67:A:CYS:H	1:79:A:LEU:HB2	6	0.46
(1,1090)	1:67:A:CYS:H	1:79:A:LEU:HB2	10	0.46
(1,1078)	1:77:A:LEU:H	1:68:A:PHE:HD2	5	0.46
(1,1050)	1:57:A:VAL:HG12	1:56:A:LEU:HA	10	0.46
(1,1047)	1:77:A:LEU:HB3	1:77:A:LEU:HD13	2	0.46
(1,1047)	1:77:A:LEU:HB3	1:77:A:LEU:HD13	8	0.46
(1,904)	1:84:A:ALA:HB3	1:89:A:PHE:HA	10	0.46
(1,160)	1:72:A:HIS:HB2	1:90:A:TYR:HE1	3	0.46
(1,38)	1:50:A:VAL:H	1:50:A:VAL:HG11	2	0.46
(1,38)	1:50:A:VAL:H	1:50:A:VAL:HG11	6	0.46
(1,30)	1:49:A:THR:H	1:49:A:THR:HG23	7	0.46
(1,1140)	1:75:A:THR:HG23	1:74:A:HIS:HA	5	0.45
(1,1140)	1:75:A:THR:HG23	1:74:A:HIS:HA	6	0.45
(1,1047)	1:77:A:LEU:HB3	1:77:A:LEU:HD12	5	0.45
(1,1041)	1:79:A:LEU:HD22	1:58:A:ALA:HB1	6	0.45
(1,904)	1:84:A:ALA:HB1	1:89:A:PHE:HA	7	0.45
(1,442)	1:59:A:ASP:H	1:79:A:LEU:HD21	6	0.45
(1,93)	1:58:A:ALA:HA	1:79:A:LEU:HD23	3	0.45
(1,38)	1:50:A:VAL:H	1:50:A:VAL:HG12	4	0.45
(1,30)	1:49:A:THR:H	1:49:A:THR:HG21	10	0.45
(1,1148)	1:57:A:VAL:HG21	1:60:A:LYS:HG3	3	0.44
(1,1148)	1:57:A:VAL:HG22	1:60:A:LYS:HG3	10	0.44
(1,1104)	1:82:A:TYR:HD2	1:79:A:LEU:HD22	1	0.44
(1,1056)	1:84:A:ALA:HA	1:89:A:PHE:HD1	7	0.44
(1,904)	1:84:A:ALA:HB1	1:89:A:PHE:HA	2	0.44
(1,904)	1:84:A:ALA:HB1	1:89:A:PHE:HA	8	0.44
(1,866)	1:95:A:PHE:HD1	1:83:A:ALA:HB1	10	0.44
(1,846)	1:89:A:PHE:HD2	1:45:A:ALA:HB1	7	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,510)	1:69:A:CYS:H	1:68:A:PHE:HD2	4	0.44
(1,169)	1:74:A:HIS:HB2	1:75:A:THR:H	10	0.44
(1,45)	1:43:A:CYS:HA	1:50:A:VAL:HG22	1	0.44
(1,36)	1:50:A:VAL:HG12	1:54:A:GLU:HB3	8	0.44
(1,30)	1:49:A:THR:H	1:49:A:THR:HG21	3	0.44
(1,1136)	1:50:A:VAL:HG12	1:64:A:HIS:HE1	1	0.43
(1,1104)	1:90:A:TYR:HD2	1:98:A:LEU:HB2	2	0.43
(1,1090)	1:67:A:CYS:H	1:79:A:LEU:HB2	8	0.43
(1,1047)	1:77:A:LEU:HB3	1:77:A:LEU:HD12	3	0.43
(1,1047)	1:77:A:LEU:HB3	1:77:A:LEU:HD11	7	0.43
(1,998)	1:79:A:LEU:HD21	1:79:A:LEU:HB3	9	0.43
(1,904)	1:84:A:ALA:HB3	1:89:A:PHE:HA	5	0.43
(1,846)	1:89:A:PHE:HD1	1:45:A:ALA:HB1	5	0.43
(1,470)	1:63:A:PHE:H	1:62:A:ILE:HD12	3	0.43
(1,169)	1:74:A:HIS:HB2	1:75:A:THR:H	6	0.43
(1,169)	1:74:A:HIS:HB3	1:75:A:THR:H	9	0.43
(1,93)	1:58:A:ALA:HA	1:79:A:LEU:HD22	5	0.43
(1,85)	1:56:A:LEU:HD23	1:56:A:LEU:HB2	6	0.43
(1,38)	1:50:A:VAL:H	1:50:A:VAL:HG11	5	0.43
(1,36)	1:50:A:VAL:HG12	1:54:A:GLU:HB3	3	0.43
(1,1138)	1:57:A:VAL:HG22	1:58:A:ALA:HA	4	0.42
(1,1115)	1:77:A:LEU:HD12	1:91:A:CYS:HA	5	0.42
(1,1114)	1:69:A:CYS:HA	1:77:A:LEU:HD23	7	0.42
(1,1078)	1:77:A:LEU:H	1:68:A:PHE:HD2	6	0.42
(1,1058)	1:61:A:LEU:H	1:59:A:ASP:HB2	9	0.42
(1,1041)	1:79:A:LEU:HD23	1:58:A:ALA:HB3	5	0.42
(1,904)	1:84:A:ALA:HB1	1:89:A:PHE:HA	1	0.42
(1,846)	1:89:A:PHE:HD1	1:45:A:ALA:HB2	9	0.42
(1,470)	1:63:A:PHE:H	1:62:A:ILE:HD11	1	0.42
(1,85)	1:56:A:LEU:HD21	1:56:A:LEU:HB2	3	0.42
(1,85)	1:56:A:LEU:HD23	1:56:A:LEU:HB2	4	0.42
(1,85)	1:56:A:LEU:HD23	1:56:A:LEU:HB2	7	0.42
(1,85)	1:56:A:LEU:HD21	1:56:A:LEU:HB2	8	0.42
(1,85)	1:56:A:LEU:HD23	1:56:A:LEU:HB2	9	0.42
(1,85)	1:56:A:LEU:HD21	1:56:A:LEU:HB2	10	0.42
(1,38)	1:50:A:VAL:H	1:50:A:VAL:HG11	10	0.42
(1,36)	1:50:A:VAL:HG12	1:54:A:GLU:HB3	1	0.42
(1,30)	1:49:A:THR:H	1:49:A:THR:HG23	5	0.42
(1,1136)	1:50:A:VAL:HG11	1:64:A:HIS:HE1	6	0.41
(1,1114)	1:69:A:CYS:HA	1:77:A:LEU:HD23	10	0.41
(1,1104)	1:90:A:TYR:HD2	1:98:A:LEU:HB2	3	0.41
(1,998)	1:79:A:LEU:HD23	1:79:A:LEU:HB3	6	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,904)	1:84:A:ALA:HB2	1:89:A:PHE:HA	4	0.41
(1,629)	1:87:A:GLY:H	1:84:A:ALA:HB3	5	0.41
(1,470)	1:63:A:PHE:H	1:62:A:ILE:HD12	9	0.41
(1,470)	1:63:A:PHE:H	1:62:A:ILE:HD13	10	0.41
(1,169)	1:74:A:HIS:HB2	1:75:A:THR:H	3	0.41
(1,169)	1:74:A:HIS:HB2	1:75:A:THR:H	4	0.41
(1,169)	1:74:A:HIS:HB2	1:75:A:THR:H	5	0.41
(1,169)	1:74:A:HIS:HB3	1:75:A:THR:H	7	0.41
(1,122)	1:62:A:ILE:HB	1:62:A:ILE:HD13	2	0.41
(1,122)	1:62:A:ILE:HB	1:62:A:ILE:HD13	5	0.41
(1,122)	1:62:A:ILE:HB	1:62:A:ILE:HD13	6	0.41
(1,122)	1:62:A:ILE:HB	1:62:A:ILE:HD13	9	0.41
(1,122)	1:62:A:ILE:HB	1:62:A:ILE:HD11	10	0.41
(1,85)	1:56:A:LEU:HD21	1:56:A:LEU:HB2	1	0.41
(1,85)	1:56:A:LEU:HD23	1:56:A:LEU:HB2	5	0.41
(1,30)	1:49:A:THR:H	1:49:A:THR:HG23	6	0.41
(1,1147)	1:61:A:LEU:HD23	1:61:A:LEU:HD11	3	0.4
(1,1136)	1:50:A:VAL:HG11	1:64:A:HIS:HE1	10	0.4
(1,1114)	1:69:A:CYS:HA	1:77:A:LEU:HD22	9	0.4
(1,1090)	1:67:A:CYS:H	1:79:A:LEU:HB2	5	0.4
(1,1080)	1:81:A:SER:H	1:79:A:LEU:HB2	7	0.4
(1,1050)	1:57:A:VAL:HG13	1:56:A:LEU:HA	9	0.4
(1,998)	1:79:A:LEU:HD21	1:79:A:LEU:HB3	1	0.4
(1,998)	1:79:A:LEU:HD22	1:79:A:LEU:HB3	2	0.4
(1,998)	1:79:A:LEU:HD22	1:79:A:LEU:HB3	3	0.4
(1,868)	1:95:A:PHE:HE1	1:83:A:ALA:HB1	10	0.4
(1,470)	1:63:A:PHE:H	1:62:A:ILE:HD12	5	0.4
(1,470)	1:63:A:PHE:H	1:62:A:ILE:HD12	6	0.4
(1,186)	1:77:A:LEU:HD21	1:91:A:CYS:HB2	10	0.4
(1,169)	1:74:A:HIS:HB3	1:75:A:THR:H	1	0.4
(1,169)	1:74:A:HIS:HB2	1:75:A:THR:H	8	0.4
(1,122)	1:62:A:ILE:HB	1:62:A:ILE:HD12	1	0.4
(1,122)	1:62:A:ILE:HB	1:62:A:ILE:HD13	3	0.4
(1,122)	1:62:A:ILE:HB	1:62:A:ILE:HD13	4	0.4
(1,122)	1:62:A:ILE:HB	1:62:A:ILE:HD13	8	0.4
(1,85)	1:56:A:LEU:HD21	1:56:A:LEU:HB2	2	0.4
(1,36)	1:50:A:VAL:HG12	1:54:A:GLU:HB3	2	0.4
(1,1148)	1:57:A:VAL:HG21	1:60:A:LYS:HG3	2	0.39
(1,1147)	1:61:A:LEU:HD23	1:61:A:LEU:HD11	1	0.39
(1,1147)	1:61:A:LEU:HD23	1:61:A:LEU:HD11	8	0.39
(1,1104)	1:90:A:TYR:HD2	1:98:A:LEU:HB2	6	0.39
(1,1090)	1:67:A:CYS:H	1:79:A:LEU:HB2	2	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1078)	1:77:A:LEU:H	1:68:A:PHE:HD2	4	0.39
(1,1045)	1:68:A:PHE:HE2	1:77:A:LEU:HD13	3	0.39
(1,881)	1:72:A:HIS:HE1	1:98:A:LEU:HD22	7	0.39
(1,868)	1:95:A:PHE:HE2	1:83:A:ALA:HB1	3	0.39
(1,867)	1:82:A:TYR:HE1	1:58:A:ALA:HB3	3	0.39
(1,846)	1:89:A:PHE:HD1	1:45:A:ALA:HB3	1	0.39
(1,846)	1:89:A:PHE:HD1	1:45:A:ALA:HB3	10	0.39
(1,742)	1:44:A:ALA:HA	1:44:A:ALA:HB2	2	0.39
(1,470)	1:63:A:PHE:H	1:62:A:ILE:HD12	2	0.39
(1,470)	1:63:A:PHE:H	1:62:A:ILE:HD12	7	0.39
(1,122)	1:62:A:ILE:HB	1:62:A:ILE:HD13	7	0.39
(1,30)	1:49:A:THR:H	1:49:A:THR:HG22	2	0.39
(1,1147)	1:61:A:LEU:HD23	1:61:A:LEU:HD12	2	0.38
(1,1147)	1:61:A:LEU:HD21	1:61:A:LEU:HD12	4	0.38
(1,1147)	1:61:A:LEU:HD21	1:61:A:LEU:HD13	10	0.38
(1,1136)	1:50:A:VAL:HG12	1:64:A:HIS:HE1	3	0.38
(1,1136)	1:50:A:VAL:HG12	1:64:A:HIS:HE1	4	0.38
(1,1086)	1:95:A:PHE:H	1:97:A:GLN:HB2	4	0.38
(1,1071)	1:65:A:ASN:H	1:54:A:GLU:HB2	7	0.38
(1,1050)	1:57:A:VAL:HG11	1:56:A:LEU:HA	5	0.38
(1,1041)	1:79:A:LEU:HD22	1:58:A:ALA:HB2	2	0.38
(1,998)	1:79:A:LEU:HD23	1:79:A:LEU:HB3	4	0.38
(1,998)	1:79:A:LEU:HD23	1:79:A:LEU:HB3	8	0.38
(1,868)	1:95:A:PHE:HE2	1:83:A:ALA:HB3	8	0.38
(1,864)	1:86:A:HIS:HD2	1:85:A:LEU:HD13	6	0.38
(1,864)	1:86:A:HIS:HD2	1:85:A:LEU:HD12	7	0.38
(1,784)	1:77:A:LEU:HA	1:77:A:LEU:HD11	8	0.38
(1,742)	1:44:A:ALA:HA	1:44:A:ALA:HB3	6	0.38
(1,639)	1:88:A:GLU:H	1:84:A:ALA:HB1	2	0.38
(1,549)	1:73:A:CYS:H	1:90:A:TYR:HD1	1	0.38
(1,309)	1:43:A:CYS:H	1:62:A:ILE:HG23	10	0.38
(1,189)	1:91:A:CYS:H	1:77:A:LEU:HD23	6	0.38
(1,169)	1:74:A:HIS:HB2	1:75:A:THR:H	2	0.38
(1,1148)	1:57:A:VAL:HG22	1:60:A:LYS:HG3	6	0.37
(1,1147)	1:61:A:LEU:HD22	1:61:A:LEU:HD12	5	0.37
(1,1080)	1:81:A:SER:H	1:79:A:LEU:HB2	2	0.37
(1,1058)	1:61:A:LEU:H	1:59:A:ASP:HB2	1	0.37
(1,1041)	1:79:A:LEU:HD21	1:58:A:ALA:HB2	10	0.37
(1,1028)	1:61:A:LEU:HD23	1:61:A:LEU:HD11	3	0.37
(1,998)	1:79:A:LEU:HD23	1:79:A:LEU:HB3	5	0.37
(1,998)	1:79:A:LEU:HD21	1:79:A:LEU:HB3	7	0.37
(1,998)	1:79:A:LEU:HD22	1:79:A:LEU:HB3	10	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,904)	1:84:A:ALA:HB2	1:89:A:PHE:HA	6	0.37
(1,864)	1:86:A:HIS:HD2	1:85:A:LEU:HD11	1	0.37
(1,864)	1:86:A:HIS:HD2	1:85:A:LEU:HD12	4	0.37
(1,742)	1:44:A:ALA:HA	1:44:A:ALA:HB2	3	0.37
(1,742)	1:44:A:ALA:HA	1:44:A:ALA:HB3	9	0.37
(1,470)	1:63:A:PHE:H	1:62:A:ILE:HD12	4	0.37
(1,309)	1:43:A:CYS:H	1:62:A:ILE:HG23	7	0.37
(1,182)	1:77:A:LEU:HD11	1:91:A:CYS:HA	7	0.37
(1,160)	1:72:A:HIS:HB2	1:90:A:TYR:HE2	4	0.37
(1,45)	1:43:A:CYS:HA	1:50:A:VAL:HG23	2	0.37
(1,45)	1:43:A:CYS:HA	1:50:A:VAL:HG21	3	0.37
(1,30)	1:49:A:THR:H	1:49:A:THR:HG21	8	0.37
(1,1147)	1:61:A:LEU:HD23	1:61:A:LEU:HD11	6	0.36
(1,1147)	1:61:A:LEU:HB3	1:61:A:LEU:HD11	9	0.36
(1,1090)	1:67:A:CYS:H	1:79:A:LEU:HB2	1	0.36
(1,1090)	1:67:A:CYS:H	1:79:A:LEU:HB2	3	0.36
(1,1090)	1:67:A:CYS:H	1:79:A:LEU:HB2	9	0.36
(1,1086)	1:95:A:PHE:H	1:97:A:GLN:HB2	8	0.36
(1,1086)	1:95:A:PHE:H	1:97:A:GLN:HB2	10	0.36
(1,1041)	1:79:A:LEU:HD23	1:58:A:ALA:HB1	9	0.36
(1,1028)	1:61:A:LEU:HD23	1:61:A:LEU:HD11	1	0.36
(1,1028)	1:61:A:LEU:HD23	1:61:A:LEU:HD12	2	0.36
(1,1028)	1:61:A:LEU:HD21	1:61:A:LEU:HD12	4	0.36
(1,1028)	1:61:A:LEU:HD23	1:61:A:LEU:HD11	8	0.36
(1,904)	1:84:A:ALA:HB3	1:89:A:PHE:HA	3	0.36
(1,904)	1:84:A:ALA:HB1	1:89:A:PHE:HA	9	0.36
(1,869)	1:89:A:PHE:HE2	1:58:A:ALA:HB1	8	0.36
(1,864)	1:86:A:HIS:HD2	1:85:A:LEU:HD12	5	0.36
(1,864)	1:86:A:HIS:HD2	1:85:A:LEU:HD12	10	0.36
(1,784)	1:77:A:LEU:HA	1:77:A:LEU:HD11	2	0.36
(1,784)	1:77:A:LEU:HA	1:77:A:LEU:HD13	5	0.36
(1,784)	1:77:A:LEU:HA	1:77:A:LEU:HD11	6	0.36
(1,742)	1:44:A:ALA:HA	1:44:A:ALA:HB1	1	0.36
(1,742)	1:44:A:ALA:HA	1:44:A:ALA:HB2	4	0.36
(1,742)	1:44:A:ALA:HA	1:44:A:ALA:HB1	8	0.36
(1,493)	1:65:A:ASN:H	1:50:A:VAL:HG23	10	0.36
(1,160)	1:72:A:HIS:HB2	1:90:A:TYR:HE2	10	0.36
(1,124)	1:63:A:PHE:HA	1:63:A:PHE:HD1	10	0.36
(1,46)	1:43:A:CYS:H	1:50:A:VAL:HG23	1	0.36
(1,1147)	1:61:A:LEU:HD21	1:61:A:LEU:HD12	7	0.35
(1,1097)	1:84:A:ALA:HA	1:89:A:PHE:HD2	8	0.35
(1,1080)	1:81:A:SER:H	1:79:A:LEU:HB2	5	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1078)	1:77:A:LEU:H	1:68:A:PHE:HD2	3	0.35
(1,1028)	1:61:A:LEU:HD21	1:61:A:LEU:HD13	10	0.35
(1,975)	1:95:A:PHE:HB3	1:83:A:ALA:HB1	4	0.35
(1,869)	1:89:A:PHE:HE2	1:58:A:ALA:HB1	2	0.35
(1,869)	1:89:A:PHE:HE2	1:58:A:ALA:HB1	10	0.35
(1,864)	1:86:A:HIS:HD2	1:85:A:LEU:HD11	3	0.35
(1,846)	1:89:A:PHE:HD1	1:45:A:ALA:HB2	8	0.35
(1,784)	1:77:A:LEU:HA	1:77:A:LEU:HD12	9	0.35
(1,742)	1:44:A:ALA:HA	1:44:A:ALA:HB3	5	0.35
(1,742)	1:44:A:ALA:HA	1:44:A:ALA:HB3	7	0.35
(1,742)	1:44:A:ALA:HA	1:44:A:ALA:HB2	10	0.35
(1,549)	1:73:A:CYS:H	1:90:A:TYR:HD1	3	0.35
(1,470)	1:63:A:PHE:H	1:62:A:ILE:HD12	8	0.35
(1,309)	1:43:A:CYS:H	1:62:A:ILE:HG21	2	0.35
(1,186)	1:77:A:LEU:HD21	1:91:A:CYS:HB2	8	0.35
(1,186)	1:77:A:LEU:HD23	1:91:A:CYS:HB2	9	0.35
(1,160)	1:72:A:HIS:HB2	1:90:A:TYR:HE2	6	0.35
(1,124)	1:63:A:PHE:HA	1:63:A:PHE:HD1	5	0.35
(1,1087)	1:96:A:GLN:H	1:83:A:ALA:HB2	1	0.34
(1,1029)	1:79:A:LEU:HD13	1:79:A:LEU:HD21	6	0.34
(1,1029)	1:79:A:LEU:HD13	1:79:A:LEU:HD22	9	0.34
(1,1028)	1:61:A:LEU:HD22	1:61:A:LEU:HD12	5	0.34
(1,1011)	1:70:A:CYS:HB3	1:75:A:THR:HG21	7	0.34
(1,975)	1:95:A:PHE:HB3	1:83:A:ALA:HB3	9	0.34
(1,869)	1:89:A:PHE:HE2	1:58:A:ALA:HB1	1	0.34
(1,869)	1:89:A:PHE:HE2	1:58:A:ALA:HB2	5	0.34
(1,869)	1:89:A:PHE:HE1	1:58:A:ALA:HB3	7	0.34
(1,869)	1:89:A:PHE:HE2	1:58:A:ALA:HB3	9	0.34
(1,868)	1:95:A:PHE:HE2	1:83:A:ALA:HB3	5	0.34
(1,864)	1:86:A:HIS:HD2	1:85:A:LEU:HD13	9	0.34
(1,846)	1:89:A:PHE:HD1	1:45:A:ALA:HB2	4	0.34
(1,791)	1:83:A:ALA:HA	1:83:A:ALA:HB2	4	0.34
(1,791)	1:83:A:ALA:HA	1:83:A:ALA:HB2	8	0.34
(1,784)	1:77:A:LEU:HA	1:77:A:LEU:HD11	1	0.34
(1,784)	1:77:A:LEU:HA	1:77:A:LEU:HD12	7	0.34
(1,784)	1:77:A:LEU:HA	1:77:A:LEU:HD13	10	0.34
(1,629)	1:87:A:GLY:H	1:84:A:ALA:HB1	2	0.34
(1,601)	1:82:A:TYR:H	1:92:A:LYS:HD2	8	0.34
(1,45)	1:43:A:CYS:HA	1:50:A:VAL:HG23	8	0.34
(1,45)	1:43:A:CYS:HA	1:50:A:VAL:HG23	10	0.34
(1,1095)	1:99:A:PHE:HE2	1:90:A:TYR:HD1	9	0.33
(1,1094)	1:63:A:PHE:HE2	1:63:A:PHE:HD2	2	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1094)	1:63:A:PHE:HE2	1:63:A:PHE:HD2	5	0.33
(1,1094)	1:63:A:PHE:HE2	1:63:A:PHE:HD2	7	0.33
(1,1087)	1:96:A:GLN:H	1:83:A:ALA:HB3	2	0.33
(1,1049)	1:61:A:LEU:H	1:57:A:VAL:HG22	2	0.33
(1,1028)	1:61:A:LEU:HD23	1:61:A:LEU:HD11	6	0.33
(1,1028)	1:61:A:LEU:HD22	1:61:A:LEU:HD13	9	0.33
(1,866)	1:95:A:PHE:HD2	1:83:A:ALA:HB3	8	0.33
(1,864)	1:86:A:HIS:HD2	1:85:A:LEU:HD12	2	0.33
(1,846)	1:89:A:PHE:HD1	1:45:A:ALA:HB2	6	0.33
(1,791)	1:83:A:ALA:HA	1:83:A:ALA:HB2	5	0.33
(1,791)	1:83:A:ALA:HA	1:83:A:ALA:HB2	7	0.33
(1,791)	1:83:A:ALA:HA	1:83:A:ALA:HB1	9	0.33
(1,784)	1:77:A:LEU:HA	1:77:A:LEU:HD13	4	0.33
(1,639)	1:88:A:GLU:H	1:84:A:ALA:HB3	5	0.33
(1,309)	1:43:A:CYS:H	1:62:A:ILE:HG21	8	0.33
(1,124)	1:63:A:PHE:HA	1:63:A:PHE:HD1	1	0.33
(1,45)	1:43:A:CYS:HA	1:50:A:VAL:HG23	6	0.33
(1,45)	1:43:A:CYS:HA	1:50:A:VAL:HG23	7	0.33
(1,36)	1:50:A:VAL:HG12	1:54:A:GLU:HB3	6	0.33
(1,30)	1:49:A:THR:H	1:49:A:THR:HG21	4	0.33
(1,1094)	1:63:A:PHE:HE2	1:63:A:PHE:HD2	1	0.32
(1,1094)	1:63:A:PHE:HE2	1:63:A:PHE:HD2	3	0.32
(1,1094)	1:63:A:PHE:HE2	1:63:A:PHE:HD2	6	0.32
(1,1094)	1:63:A:PHE:HE2	1:63:A:PHE:HD2	8	0.32
(1,1094)	1:63:A:PHE:HE2	1:63:A:PHE:HD2	9	0.32
(1,1087)	1:96:A:GLN:H	1:83:A:ALA:HB1	4	0.32
(1,1086)	1:95:A:PHE:H	1:97:A:GLN:HB2	1	0.32
(1,1086)	1:95:A:PHE:H	1:97:A:GLN:HB2	7	0.32
(1,1071)	1:65:A:ASN:H	1:54:A:GLU:HB2	9	0.32
(1,1058)	1:61:A:LEU:H	1:59:A:ASP:HB2	5	0.32
(1,1056)	1:84:A:ALA:HA	1:89:A:PHE:HD2	8	0.32
(1,1028)	1:61:A:LEU:HD21	1:61:A:LEU:HD12	7	0.32
(1,868)	1:95:A:PHE:HE1	1:83:A:ALA:HB3	6	0.32
(1,791)	1:83:A:ALA:HA	1:83:A:ALA:HB3	1	0.32
(1,791)	1:83:A:ALA:HA	1:83:A:ALA:HB1	2	0.32
(1,791)	1:83:A:ALA:HA	1:83:A:ALA:HB3	3	0.32
(1,791)	1:83:A:ALA:HA	1:83:A:ALA:HB3	10	0.32
(1,743)	1:45:A:ALA:HA	1:45:A:ALA:HB2	4	0.32
(1,743)	1:45:A:ALA:HA	1:45:A:ALA:HB1	5	0.32
(1,743)	1:45:A:ALA:HA	1:45:A:ALA:HB2	6	0.32
(1,549)	1:73:A:CYS:H	1:90:A:TYR:HD1	7	0.32
(1,309)	1:43:A:CYS:H	1:62:A:ILE:HG21	9	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,189)	1:91:A:CYS:H	1:77:A:LEU:HD22	4	0.32
(1,160)	1:72:A:HIS:HB2	1:90:A:TYR:HE2	8	0.32
(1,124)	1:63:A:PHE:HA	1:63:A:PHE:HD1	3	0.32
(1,124)	1:63:A:PHE:HA	1:63:A:PHE:HD1	6	0.32
(1,46)	1:43:A:CYS:H	1:50:A:VAL:HG22	6	0.32
(1,42)	1:50:A:VAL:HG21	1:41:A:GLU:HB3	10	0.32
(1,1119)	1:93:A:PRO:HA	1:93:A:PRO:HB2	2	0.31
(1,1119)	1:93:A:PRO:HA	1:93:A:PRO:HB2	3	0.31
(1,1119)	1:93:A:PRO:HA	1:93:A:PRO:HB2	4	0.31
(1,1119)	1:93:A:PRO:HA	1:93:A:PRO:HB2	8	0.31
(1,1114)	1:69:A:CYS:HA	1:77:A:LEU:HD21	3	0.31
(1,1114)	1:69:A:CYS:HA	1:77:A:LEU:HD23	8	0.31
(1,1096)	1:63:A:PHE:HD1	1:68:A:PHE:HE1	3	0.31
(1,1094)	1:63:A:PHE:HE2	1:63:A:PHE:HD2	4	0.31
(1,1094)	1:63:A:PHE:HE2	1:63:A:PHE:HD2	10	0.31
(1,1086)	1:95:A:PHE:H	1:97:A:GLN:HB2	3	0.31
(1,1058)	1:61:A:LEU:H	1:59:A:ASP:HB2	4	0.31
(1,1058)	1:61:A:LEU:H	1:59:A:ASP:HB2	10	0.31
(1,1036)	1:58:A:ALA:HA	1:58:A:ALA:HB1	6	0.31
(1,1029)	1:79:A:LEU:HD13	1:79:A:LEU:HD23	2	0.31
(1,1011)	1:70:A:CYS:HB3	1:75:A:THR:HG23	3	0.31
(1,869)	1:89:A:PHE:HE2	1:58:A:ALA:HB2	4	0.31
(1,867)	1:82:A:TYR:HE1	1:58:A:ALA:HB2	9	0.31
(1,861)	1:49:A:THR:HG22	1:51:A:TYR:HE1	8	0.31
(1,796)	1:86:A:HIS:HE1	1:85:A:LEU:HD21	4	0.31
(1,796)	1:86:A:HIS:HE1	1:85:A:LEU:HD21	5	0.31
(1,796)	1:86:A:HIS:HE1	1:85:A:LEU:HD23	6	0.31
(1,796)	1:86:A:HIS:HE1	1:85:A:LEU:HD22	8	0.31
(1,784)	1:77:A:LEU:HA	1:77:A:LEU:HD13	3	0.31
(1,751)	1:50:A:VAL:HA	1:50:A:VAL:HG23	5	0.31
(1,743)	1:45:A:ALA:HA	1:45:A:ALA:HB2	3	0.31
(1,743)	1:45:A:ALA:HA	1:45:A:ALA:HB2	9	0.31
(1,743)	1:45:A:ALA:HA	1:45:A:ALA:HB3	10	0.31
(1,189)	1:91:A:CYS:H	1:77:A:LEU:HD23	2	0.31
(1,186)	1:77:A:LEU:HD22	1:91:A:CYS:HB2	1	0.31
(1,182)	1:77:A:LEU:HD12	1:91:A:CYS:HA	3	0.31
(1,182)	1:77:A:LEU:HD13	1:91:A:CYS:HA	6	0.31
(1,124)	1:63:A:PHE:HA	1:63:A:PHE:HD1	4	0.31
(1,45)	1:43:A:CYS:HA	1:50:A:VAL:HG21	5	0.31
(1,45)	1:43:A:CYS:HA	1:50:A:VAL:HG23	9	0.31
(1,36)	1:50:A:VAL:HG12	1:54:A:GLU:HB3	7	0.31
(1,1141)	1:49:A:THR:HB	1:49:A:THR:HG21	6	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1136)	1:50:A:VAL:HG11	1:64:A:HIS:HE1	9	0.3
(1,1119)	1:93:A:PRO:HA	1:93:A:PRO:HB2	7	0.3
(1,1119)	1:93:A:PRO:HA	1:93:A:PRO:HB2	9	0.3
(1,1119)	1:93:A:PRO:HA	1:93:A:PRO:HB2	10	0.3
(1,1114)	1:69:A:CYS:HA	1:77:A:LEU:HD21	1	0.3
(1,1097)	1:84:A:ALA:HA	1:89:A:PHE:HD2	1	0.3
(1,1096)	1:63:A:PHE:HD1	1:68:A:PHE:HE1	8	0.3
(1,1078)	1:77:A:LEU:H	1:68:A:PHE:HD2	8	0.3
(1,1071)	1:65:A:ASN:H	1:54:A:GLU:HB2	2	0.3
(1,1036)	1:58:A:ALA:HA	1:58:A:ALA:HB2	2	0.3
(1,1036)	1:58:A:ALA:HA	1:58:A:ALA:HB1	4	0.3
(1,1030)	1:42:A:THR:HG22	1:49:A:THR:HG21	1	0.3
(1,1029)	1:79:A:LEU:HD12	1:79:A:LEU:HD23	3	0.3
(1,1029)	1:79:A:LEU:HD13	1:79:A:LEU:HD21	5	0.3
(1,975)	1:95:A:PHE:HB3	1:83:A:ALA:HB3	5	0.3
(1,955)	1:63:A:PHE:HB2	1:63:A:PHE:HD2	1	0.3
(1,940)	1:45:A:ALA:HB1	1:67:A:CYS:HB2	1	0.3
(1,866)	1:95:A:PHE:HD2	1:83:A:ALA:HB3	5	0.3
(1,821)	1:95:A:PHE:HD1	1:95:A:PHE:HE1	8	0.3
(1,821)	1:95:A:PHE:HD1	1:95:A:PHE:HE1	9	0.3
(1,818)	1:90:A:TYR:HD1	1:90:A:TYR:HE1	2	0.3
(1,818)	1:90:A:TYR:HD1	1:90:A:TYR:HE1	8	0.3
(1,818)	1:90:A:TYR:HD1	1:90:A:TYR:HE1	9	0.3
(1,796)	1:86:A:HIS:HE1	1:85:A:LEU:HD23	7	0.3
(1,791)	1:83:A:ALA:HA	1:83:A:ALA:HB2	6	0.3
(1,751)	1:50:A:VAL:HA	1:50:A:VAL:HG22	7	0.3
(1,743)	1:45:A:ALA:HA	1:45:A:ALA:HB1	2	0.3
(1,743)	1:45:A:ALA:HA	1:45:A:ALA:HB2	8	0.3
(1,275)	1:99:A:PHE:HB2	1:85:A:LEU:HD21	8	0.3
(1,189)	1:91:A:CYS:H	1:77:A:LEU:HD21	1	0.3
(1,186)	1:77:A:LEU:HD23	1:91:A:CYS:HB2	4	0.3
(1,186)	1:77:A:LEU:HD21	1:91:A:CYS:HB2	6	0.3
(1,45)	1:43:A:CYS:HA	1:50:A:VAL:HG23	4	0.3
(1,1141)	1:49:A:THR:HB	1:49:A:THR:HG22	3	0.29
(1,1136)	1:50:A:VAL:HG11	1:64:A:HIS:HE1	2	0.29
(1,1136)	1:50:A:VAL:HG11	1:64:A:HIS:HE1	5	0.29
(1,1119)	1:93:A:PRO:HA	1:93:A:PRO:HB2	5	0.29
(1,1119)	1:93:A:PRO:HA	1:93:A:PRO:HB2	6	0.29
(1,1109)	1:95:A:PHE:HE1	1:85:A:LEU:HA	8	0.29
(1,1096)	1:63:A:PHE:HD1	1:68:A:PHE:HE1	7	0.29
(1,1096)	1:63:A:PHE:HD1	1:68:A:PHE:HE1	9	0.29
(1,1086)	1:95:A:PHE:H	1:97:A:GLN:HB2	5	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1081)	1:88:A:GLU:H	1:90:A:TYR:HE1	1	0.29
(1,1081)	1:88:A:GLU:H	1:90:A:TYR:HE1	10	0.29
(1,1036)	1:58:A:ALA:HA	1:58:A:ALA:HB2	3	0.29
(1,1029)	1:79:A:LEU:HD13	1:79:A:LEU:HD23	1	0.29
(1,1029)	1:79:A:LEU:HD11	1:79:A:LEU:HD23	10	0.29
(1,955)	1:63:A:PHE:HB2	1:63:A:PHE:HD2	6	0.29
(1,869)	1:89:A:PHE:HE2	1:58:A:ALA:HB1	3	0.29
(1,862)	1:51:A:TYR:HD1	1:49:A:THR:HG21	7	0.29
(1,821)	1:95:A:PHE:HD1	1:95:A:PHE:HE1	2	0.29
(1,818)	1:90:A:TYR:HD1	1:90:A:TYR:HE1	1	0.29
(1,818)	1:90:A:TYR:HD1	1:90:A:TYR:HE1	4	0.29
(1,818)	1:90:A:TYR:HD1	1:90:A:TYR:HE1	5	0.29
(1,796)	1:86:A:HIS:HE1	1:85:A:LEU:HD22	1	0.29
(1,796)	1:86:A:HIS:HE1	1:85:A:LEU:HD22	2	0.29
(1,796)	1:86:A:HIS:HE1	1:85:A:LEU:HD22	3	0.29
(1,796)	1:86:A:HIS:HE1	1:85:A:LEU:HD23	9	0.29
(1,751)	1:50:A:VAL:HA	1:50:A:VAL:HG22	4	0.29
(1,743)	1:45:A:ALA:HA	1:45:A:ALA:HB3	1	0.29
(1,743)	1:45:A:ALA:HA	1:45:A:ALA:HB1	7	0.29
(1,604)	1:82:A:TYR:H	1:77:A:LEU:HD23	5	0.29
(1,189)	1:91:A:CYS:H	1:77:A:LEU:HD22	3	0.29
(1,188)	1:92:A:LYS:H	1:77:A:LEU:HD22	7	0.29
(1,124)	1:63:A:PHE:HA	1:63:A:PHE:HD1	9	0.29
(1,109)	1:61:A:LEU:H	1:61:A:LEU:HD23	7	0.29
(1,93)	1:58:A:ALA:HA	1:79:A:LEU:HD21	8	0.29
(1,36)	1:50:A:VAL:HG12	1:54:A:GLU:HB3	5	0.29
(1,36)	1:50:A:VAL:HG11	1:54:A:GLU:HB3	9	0.29
(1,1155)	1:98:A:LEU:HD22	1:98:A:LEU:HD11	7	0.28
(1,1141)	1:49:A:THR:HB	1:49:A:THR:HG22	1	0.28
(1,1141)	1:57:A:VAL:HG22	1:60:A:LYS:HA	9	0.28
(1,1121)	1:43:A:CYS:HA	1:50:A:VAL:HG22	1	0.28
(1,1119)	1:93:A:PRO:HA	1:93:A:PRO:HB2	1	0.28
(1,1114)	1:69:A:CYS:HA	1:77:A:LEU:HD22	2	0.28
(1,1109)	1:95:A:PHE:HE1	1:85:A:LEU:HA	2	0.28
(1,1109)	1:95:A:PHE:HE1	1:85:A:LEU:HA	5	0.28
(1,1096)	1:63:A:PHE:HD1	1:68:A:PHE:HE1	2	0.28
(1,1096)	1:63:A:PHE:HD1	1:68:A:PHE:HE1	4	0.28
(1,1096)	1:63:A:PHE:HD1	1:68:A:PHE:HE1	5	0.28
(1,1087)	1:96:A:GLN:H	1:83:A:ALA:HB2	6	0.28
(1,1058)	1:61:A:LEU:H	1:59:A:ASP:HB2	7	0.28
(1,1041)	1:79:A:LEU:HD23	1:58:A:ALA:HB1	7	0.28
(1,1036)	1:58:A:ALA:HA	1:58:A:ALA:HB1	5	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1036)	1:58:A:ALA:HA	1:58:A:ALA:HB2	9	0.28
(1,1036)	1:58:A:ALA:HA	1:58:A:ALA:HB3	10	0.28
(1,1030)	1:42:A:THR:HG21	1:49:A:THR:HG21	3	0.28
(1,1029)	1:79:A:LEU:HD11	1:79:A:LEU:HD21	8	0.28
(1,1011)	1:70:A:CYS:HB3	1:75:A:THR:HG22	1	0.28
(1,1004)	1:69:A:CYS:HA	1:77:A:LEU:HD23	7	0.28
(1,975)	1:95:A:PHE:HB3	1:83:A:ALA:HB3	7	0.28
(1,940)	1:45:A:ALA:HB1	1:67:A:CYS:HB2	10	0.28
(1,869)	1:89:A:PHE:HE2	1:58:A:ALA:HB3	6	0.28
(1,867)	1:82:A:TYR:HE2	1:58:A:ALA:HB1	5	0.28
(1,862)	1:51:A:TYR:HD1	1:49:A:THR:HG21	5	0.28
(1,862)	1:51:A:TYR:HD1	1:49:A:THR:HG22	10	0.28
(1,861)	1:49:A:THR:HG22	1:51:A:TYR:HE1	1	0.28
(1,821)	1:95:A:PHE:HE2	1:95:A:PHE:HD2	3	0.28
(1,821)	1:95:A:PHE:HD1	1:95:A:PHE:HE1	4	0.28
(1,821)	1:95:A:PHE:HD1	1:95:A:PHE:HE1	7	0.28
(1,818)	1:90:A:TYR:HD1	1:90:A:TYR:HE1	6	0.28
(1,818)	1:90:A:TYR:HD1	1:90:A:TYR:HE1	7	0.28
(1,818)	1:90:A:TYR:HD1	1:90:A:TYR:HE1	10	0.28
(1,808)	1:98:A:LEU:HD22	1:98:A:LEU:HD11	7	0.28
(1,549)	1:73:A:CYS:H	1:90:A:TYR:HD1	10	0.28
(1,534)	1:71:A:LYS:H	1:77:A:LEU:HD11	5	0.28
(1,275)	1:99:A:PHE:HB2	1:85:A:LEU:HD21	1	0.28
(1,207)	1:85:A:LEU:HD13	1:99:A:PHE:HD2	10	0.28
(1,186)	1:77:A:LEU:HD22	1:91:A:CYS:HB2	5	0.28
(1,182)	1:77:A:LEU:HD13	1:91:A:CYS:HA	2	0.28
(1,182)	1:77:A:LEU:HD12	1:91:A:CYS:HA	4	0.28
(1,124)	1:63:A:PHE:HA	1:63:A:PHE:HD1	2	0.28
(1,109)	1:61:A:LEU:H	1:61:A:LEU:HD21	6	0.28
(1,93)	1:58:A:ALA:HA	1:79:A:LEU:HD23	10	0.28
(1,1155)	1:98:A:LEU:HD21	1:98:A:LEU:HD13	1	0.27
(1,1155)	1:98:A:LEU:HD21	1:98:A:LEU:HD13	9	0.27
(1,1141)	1:57:A:VAL:HG22	1:60:A:LYS:HA	5	0.27
(1,1109)	1:95:A:PHE:HE1	1:85:A:LEU:HA	3	0.27
(1,1097)	1:84:A:ALA:HA	1:89:A:PHE:HD2	4	0.27
(1,1096)	1:63:A:PHE:HD1	1:68:A:PHE:HE1	1	0.27
(1,1096)	1:63:A:PHE:HD1	1:68:A:PHE:HE1	6	0.27
(1,1086)	1:95:A:PHE:H	1:97:A:GLN:HB2	6	0.27
(1,1081)	1:88:A:GLU:H	1:90:A:TYR:HE1	4	0.27
(1,1071)	1:65:A:ASN:H	1:54:A:GLU:HB2	10	0.27
(1,1058)	1:61:A:LEU:H	1:59:A:ASP:HB2	8	0.27
(1,1056)	1:84:A:ALA:HA	1:89:A:PHE:HD2	1	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1036)	1:58:A:ALA:HA	1:58:A:ALA:HB3	1	0.27
(1,1030)	1:42:A:THR:HG21	1:49:A:THR:HG21	10	0.27
(1,1004)	1:69:A:CYS:HA	1:77:A:LEU:HD23	10	0.27
(1,1003)	1:82:A:TYR:HD2	1:79:A:LEU:HD23	6	0.27
(1,955)	1:63:A:PHE:HB2	1:63:A:PHE:HD2	4	0.27
(1,940)	1:45:A:ALA:HB2	1:67:A:CYS:HB2	5	0.27
(1,866)	1:95:A:PHE:HD2	1:83:A:ALA:HB3	4	0.27
(1,862)	1:51:A:TYR:HD1	1:49:A:THR:HG22	3	0.27
(1,821)	1:95:A:PHE:HD1	1:95:A:PHE:HE1	10	0.27
(1,818)	1:90:A:TYR:HD1	1:90:A:TYR:HE1	3	0.27
(1,808)	1:98:A:LEU:HD21	1:98:A:LEU:HD13	1	0.27
(1,796)	1:86:A:HIS:HE1	1:85:A:LEU:HD22	10	0.27
(1,759)	1:57:A:VAL:HG12	1:57:A:VAL:HA	6	0.27
(1,759)	1:57:A:VAL:HG13	1:57:A:VAL:HA	8	0.27
(1,751)	1:50:A:VAL:HA	1:50:A:VAL:HG22	6	0.27
(1,751)	1:50:A:VAL:HA	1:50:A:VAL:HG22	10	0.27
(1,275)	1:99:A:PHE:HB2	1:85:A:LEU:HD21	2	0.27
(1,275)	1:99:A:PHE:HB2	1:85:A:LEU:HD22	7	0.27
(1,189)	1:91:A:CYS:H	1:77:A:LEU:HD23	8	0.27
(1,182)	1:77:A:LEU:HD11	1:91:A:CYS:HA	9	0.27
(1,124)	1:63:A:PHE:HA	1:63:A:PHE:HD1	7	0.27
(1,109)	1:61:A:LEU:H	1:61:A:LEU:HD22	3	0.27
(1,1155)	1:98:A:LEU:HD23	1:98:A:LEU:HD12	5	0.26
(1,1155)	1:98:A:LEU:HD21	1:98:A:LEU:HD11	8	0.26
(1,1155)	1:98:A:LEU:HD22	1:98:A:LEU:HD13	10	0.26
(1,1141)	1:49:A:THR:HB	1:49:A:THR:HG23	2	0.26
(1,1141)	1:57:A:VAL:HG21	1:60:A:LYS:HA	7	0.26
(1,1080)	1:81:A:SER:H	1:79:A:LEU:HB2	9	0.26
(1,1041)	1:79:A:LEU:HD22	1:58:A:ALA:HB3	4	0.26
(1,1041)	1:79:A:LEU:HD22	1:58:A:ALA:HB2	8	0.26
(1,1036)	1:58:A:ALA:HA	1:58:A:ALA:HB3	8	0.26
(1,1029)	1:79:A:LEU:HD13	1:79:A:LEU:HD21	4	0.26
(1,1004)	1:69:A:CYS:HA	1:77:A:LEU:HD22	9	0.26
(1,978)	1:77:A:LEU:HD12	1:89:A:PHE:HB2	6	0.26
(1,955)	1:63:A:PHE:HB2	1:63:A:PHE:HD2	3	0.26
(1,955)	1:63:A:PHE:HB2	1:63:A:PHE:HD1	10	0.26
(1,940)	1:45:A:ALA:HB3	1:67:A:CYS:HB2	3	0.26
(1,881)	1:72:A:HIS:HE1	1:98:A:LEU:HD23	5	0.26
(1,867)	1:82:A:TYR:HE2	1:58:A:ALA:HB3	8	0.26
(1,862)	1:51:A:TYR:HD1	1:49:A:THR:HG22	8	0.26
(1,861)	1:49:A:THR:HG23	1:51:A:TYR:HE1	9	0.26
(1,853)	1:84:A:ALA:HB2	1:82:A:TYR:HE1	2	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,821)	1:95:A:PHE:HD1	1:95:A:PHE:HE1	6	0.26
(1,808)	1:98:A:LEU:HD23	1:98:A:LEU:HD12	5	0.26
(1,808)	1:98:A:LEU:HD21	1:98:A:LEU:HD13	9	0.26
(1,751)	1:50:A:VAL:HA	1:50:A:VAL:HG22	2	0.26
(1,751)	1:50:A:VAL:HA	1:50:A:VAL:HG23	3	0.26
(1,751)	1:50:A:VAL:HA	1:50:A:VAL:HG22	8	0.26
(1,554)	1:75:A:THR:H	1:75:A:THR:HG21	7	0.26
(1,377)	1:51:A:TYR:H	1:50:A:VAL:HG22	7	0.26
(1,377)	1:51:A:TYR:H	1:50:A:VAL:HG22	10	0.26
(1,275)	1:99:A:PHE:HB2	1:85:A:LEU:HD22	6	0.26
(1,207)	1:85:A:LEU:HD13	1:99:A:PHE:HD2	4	0.26
(1,207)	1:85:A:LEU:HD11	1:99:A:PHE:HD2	9	0.26
(1,189)	1:91:A:CYS:H	1:77:A:LEU:HD22	5	0.26
(1,188)	1:92:A:LYS:H	1:77:A:LEU:HD23	3	0.26
(1,182)	1:77:A:LEU:HD13	1:91:A:CYS:HA	1	0.26
(1,182)	1:77:A:LEU:HD13	1:91:A:CYS:HA	8	0.26
(1,160)	1:72:A:HIS:HB2	1:90:A:TYR:HE2	9	0.26
(1,146)	1:70:A:CYS:HA	1:77:A:LEU:HD11	5	0.26
(1,1136)	1:50:A:VAL:HG11	1:64:A:HIS:HE1	8	0.25
(1,1131)	1:56:A:LEU:HG	1:56:A:LEU:HA	2	0.25
(1,1098)	1:95:A:PHE:HA	1:99:A:PHE:HD2	5	0.25
(1,1095)	1:99:A:PHE:HE2	1:90:A:TYR:HD1	3	0.25
(1,1078)	1:77:A:LEU:H	1:68:A:PHE:HD2	2	0.25
(1,955)	1:63:A:PHE:HB2	1:63:A:PHE:HD1	5	0.25
(1,940)	1:45:A:ALA:HB3	1:67:A:CYS:HB2	4	0.25
(1,939)	1:60:A:LYS:HA	1:60:A:LYS:HB2	1	0.25
(1,889)	1:79:A:LEU:HD23	1:68:A:PHE:HE1	5	0.25
(1,862)	1:51:A:TYR:HD1	1:49:A:THR:HG23	2	0.25
(1,845)	1:63:A:PHE:HE2	1:45:A:ALA:HB2	10	0.25
(1,821)	1:95:A:PHE:HD1	1:95:A:PHE:HE1	1	0.25
(1,821)	1:95:A:PHE:HD1	1:95:A:PHE:HE1	5	0.25
(1,808)	1:98:A:LEU:HD21	1:98:A:LEU:HD11	8	0.25
(1,808)	1:98:A:LEU:HD22	1:98:A:LEU:HD13	10	0.25
(1,751)	1:50:A:VAL:HA	1:50:A:VAL:HG22	9	0.25
(1,639)	1:88:A:GLU:H	1:84:A:ALA:HB3	10	0.25
(1,604)	1:82:A:TYR:H	1:77:A:LEU:HD22	8	0.25
(1,554)	1:75:A:THR:H	1:75:A:THR:HG23	3	0.25
(1,275)	1:99:A:PHE:HB2	1:85:A:LEU:HD23	4	0.25
(1,207)	1:85:A:LEU:HD12	1:99:A:PHE:HD2	1	0.25
(1,207)	1:85:A:LEU:HD13	1:99:A:PHE:HD2	2	0.25
(1,207)	1:85:A:LEU:HD11	1:99:A:PHE:HD2	6	0.25
(1,207)	1:85:A:LEU:HD13	1:99:A:PHE:HD2	7	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,207)	1:85:A:LEU:HD11	1:99:A:PHE:HD2	8	0.25
(1,186)	1:77:A:LEU:HD23	1:91:A:CYS:HB2	2	0.25
(1,182)	1:77:A:LEU:HD12	1:91:A:CYS:HA	10	0.25
(1,124)	1:63:A:PHE:HA	1:63:A:PHE:HD1	8	0.25
(1,117)	1:62:A:ILE:HG21	1:55:A:ARG:HG3	10	0.25
(1,93)	1:58:A:ALA:HA	1:79:A:LEU:HD22	7	0.25
(1,46)	1:43:A:CYS:H	1:50:A:VAL:HG22	4	0.25
(1,1155)	1:98:A:LEU:HD23	1:98:A:LEU:HD13	2	0.24
(1,1155)	1:98:A:LEU:HD22	1:98:A:LEU:HD13	3	0.24
(1,1131)	1:56:A:LEU:HG	1:56:A:LEU:HA	1	0.24
(1,1109)	1:95:A:PHE:HE1	1:85:A:LEU:HA	6	0.24
(1,1098)	1:95:A:PHE:HA	1:99:A:PHE:HD2	10	0.24
(1,1096)	1:63:A:PHE:HD1	1:68:A:PHE:HE1	10	0.24
(1,1087)	1:96:A:GLN:H	1:83:A:ALA:HB3	9	0.24
(1,1030)	1:42:A:THR:HG23	1:49:A:THR:HG22	2	0.24
(1,1030)	1:42:A:THR:HG22	1:49:A:THR:HG23	5	0.24
(1,1003)	1:82:A:TYR:HD2	1:79:A:LEU:HD23	2	0.24
(1,1003)	1:82:A:TYR:HD2	1:79:A:LEU:HD22	3	0.24
(1,1003)	1:82:A:TYR:HD2	1:79:A:LEU:HD21	9	0.24
(1,978)	1:77:A:LEU:HD11	1:89:A:PHE:HB2	4	0.24
(1,975)	1:95:A:PHE:HB3	1:83:A:ALA:HB1	8	0.24
(1,955)	1:63:A:PHE:HB2	1:63:A:PHE:HD2	2	0.24
(1,955)	1:63:A:PHE:HB2	1:63:A:PHE:HD2	7	0.24
(1,955)	1:63:A:PHE:HB2	1:63:A:PHE:HD2	9	0.24
(1,943)	1:70:A:CYS:HB2	1:75:A:THR:HG21	7	0.24
(1,940)	1:45:A:ALA:HB3	1:67:A:CYS:HB2	8	0.24
(1,923)	1:42:A:THR:HA	1:49:A:THR:HG21	8	0.24
(1,866)	1:95:A:PHE:HD2	1:83:A:ALA:HB1	3	0.24
(1,862)	1:51:A:TYR:HD1	1:49:A:THR:HG21	6	0.24
(1,854)	1:82:A:TYR:HE2	1:79:A:LEU:HD13	5	0.24
(1,846)	1:89:A:PHE:HD1	1:45:A:ALA:HB2	3	0.24
(1,845)	1:63:A:PHE:HE2	1:45:A:ALA:HB2	1	0.24
(1,845)	1:63:A:PHE:HE2	1:45:A:ALA:HB1	4	0.24
(1,813)	1:89:A:PHE:HE1	1:84:A:ALA:HB1	7	0.24
(1,808)	1:98:A:LEU:HD23	1:98:A:LEU:HD13	2	0.24
(1,759)	1:57:A:VAL:HG13	1:57:A:VAL:HA	2	0.24
(1,759)	1:57:A:VAL:HG11	1:57:A:VAL:HA	4	0.24
(1,759)	1:57:A:VAL:HG13	1:57:A:VAL:HA	7	0.24
(1,748)	1:49:A:THR:HB	1:49:A:THR:HG22	4	0.24
(1,748)	1:49:A:THR:HB	1:49:A:THR:HG21	6	0.24
(1,719)	1:103:A:GLY:H	1:92:A:LYS:H	2	0.24
(1,601)	1:82:A:TYR:H	1:92:A:LYS:HD2	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,275)	1:99:A:PHE:HB2	1:85:A:LEU:HD21	3	0.24
(1,207)	1:85:A:LEU:HD13	1:99:A:PHE:HD2	5	0.24
(1,188)	1:92:A:LYS:H	1:77:A:LEU:HD22	8	0.24
(1,46)	1:43:A:CYS:H	1:50:A:VAL:HG22	10	0.24
(1,1155)	1:98:A:LEU:HD21	1:98:A:LEU:HD11	6	0.23
(1,1131)	1:56:A:LEU:HG	1:56:A:LEU:HA	6	0.23
(1,1120)	1:49:A:THR:HA	1:42:A:THR:HG21	9	0.23
(1,1098)	1:95:A:PHE:HA	1:99:A:PHE:HD2	2	0.23
(1,1098)	1:95:A:PHE:HA	1:99:A:PHE:HD2	6	0.23
(1,1086)	1:95:A:PHE:H	1:97:A:GLN:HB2	2	0.23
(1,1080)	1:81:A:SER:H	1:79:A:LEU:HB2	10	0.23
(1,1056)	1:84:A:ALA:HA	1:89:A:PHE:HD2	4	0.23
(1,1036)	1:58:A:ALA:HA	1:58:A:ALA:HB2	7	0.23
(1,1030)	1:42:A:THR:HG22	1:49:A:THR:HG23	7	0.23
(1,1030)	1:42:A:THR:HG23	1:49:A:THR:HG21	8	0.23
(1,1030)	1:42:A:THR:HG21	1:49:A:THR:HG22	9	0.23
(1,978)	1:77:A:LEU:HD12	1:89:A:PHE:HB2	2	0.23
(1,978)	1:77:A:LEU:HD11	1:89:A:PHE:HB2	10	0.23
(1,944)	1:42:A:THR:HB	1:42:A:THR:HG22	10	0.23
(1,881)	1:72:A:HIS:HE1	1:98:A:LEU:HD22	3	0.23
(1,867)	1:82:A:TYR:HE2	1:58:A:ALA:HB3	10	0.23
(1,861)	1:49:A:THR:HG22	1:51:A:TYR:HE1	10	0.23
(1,854)	1:82:A:TYR:HE2	1:79:A:LEU:HD11	1	0.23
(1,845)	1:63:A:PHE:HE2	1:45:A:ALA:HB1	3	0.23
(1,845)	1:63:A:PHE:HE2	1:45:A:ALA:HB3	5	0.23
(1,808)	1:98:A:LEU:HD22	1:98:A:LEU:HD13	3	0.23
(1,759)	1:57:A:VAL:HG13	1:57:A:VAL:HA	1	0.23
(1,748)	1:49:A:THR:HB	1:49:A:THR:HG22	1	0.23
(1,748)	1:49:A:THR:HB	1:49:A:THR:HG22	3	0.23
(1,748)	1:49:A:THR:HB	1:49:A:THR:HG21	5	0.23
(1,748)	1:49:A:THR:HB	1:49:A:THR:HG21	7	0.23
(1,748)	1:49:A:THR:HB	1:49:A:THR:HG23	9	0.23
(1,737)	1:68:A:PHE:H	1:68:A:PHE:HD1	5	0.23
(1,639)	1:88:A:GLU:H	1:84:A:ALA:HB3	3	0.23
(1,607)	1:83:A:ALA:H	1:82:A:TYR:HE1	3	0.23
(1,604)	1:82:A:TYR:H	1:77:A:LEU:HD23	1	0.23
(1,604)	1:82:A:TYR:H	1:77:A:LEU:HD22	10	0.23
(1,437)	1:59:A:ASP:H	1:60:A:LYS:H	3	0.23
(1,377)	1:51:A:TYR:H	1:50:A:VAL:HG22	4	0.23
(1,275)	1:99:A:PHE:HB2	1:85:A:LEU:HD23	5	0.23
(1,207)	1:85:A:LEU:HD12	1:99:A:PHE:HD2	3	0.23
(1,160)	1:72:A:HIS:HB2	1:90:A:TYR:HE2	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,146)	1:70:A:CYS:HA	1:77:A:LEU:HD12	8	0.23
(1,46)	1:43:A:CYS:H	1:50:A:VAL:HG22	7	0.23
(1,29)	1:50:A:VAL:H	1:49:A:THR:HG22	4	0.23
(1,1109)	1:95:A:PHE:HE1	1:85:A:LEU:HA	4	0.22
(1,1097)	1:84:A:ALA:HA	1:89:A:PHE:HD2	10	0.22
(1,1030)	1:42:A:THR:HG22	1:49:A:THR:HG21	4	0.22
(1,1030)	1:42:A:THR:HG21	1:49:A:THR:HG23	6	0.22
(1,1029)	1:79:A:LEU:HD11	1:79:A:LEU:HD22	7	0.22
(1,1003)	1:82:A:TYR:HD2	1:79:A:LEU:HD21	7	0.22
(1,1003)	1:82:A:TYR:HD2	1:79:A:LEU:HD22	10	0.22
(1,955)	1:63:A:PHE:HB2	1:63:A:PHE:HD2	8	0.22
(1,940)	1:45:A:ALA:HB2	1:67:A:CYS:HB2	7	0.22
(1,923)	1:42:A:THR:HA	1:49:A:THR:HG22	2	0.22
(1,923)	1:42:A:THR:HA	1:49:A:THR:HG22	9	0.22
(1,909)	1:69:A:CYS:HA	1:77:A:LEU:HD12	8	0.22
(1,889)	1:79:A:LEU:HD21	1:68:A:PHE:HE1	1	0.22
(1,862)	1:51:A:TYR:HD1	1:49:A:THR:HG22	4	0.22
(1,854)	1:82:A:TYR:HE2	1:79:A:LEU:HD13	2	0.22
(1,854)	1:82:A:TYR:HE2	1:79:A:LEU:HD12	8	0.22
(1,845)	1:63:A:PHE:HE2	1:45:A:ALA:HB1	6	0.22
(1,845)	1:63:A:PHE:HE2	1:45:A:ALA:HB1	9	0.22
(1,835)	1:51:A:TYR:HE1	1:49:A:THR:HB	7	0.22
(1,808)	1:98:A:LEU:HD21	1:98:A:LEU:HD11	6	0.22
(1,759)	1:57:A:VAL:HG11	1:57:A:VAL:HA	3	0.22
(1,759)	1:57:A:VAL:HG11	1:57:A:VAL:HA	5	0.22
(1,759)	1:57:A:VAL:HG12	1:57:A:VAL:HA	10	0.22
(1,751)	1:50:A:VAL:HA	1:50:A:VAL:HG21	1	0.22
(1,748)	1:49:A:THR:HB	1:49:A:THR:HG22	10	0.22
(1,737)	1:68:A:PHE:H	1:68:A:PHE:HD1	6	0.22
(1,443)	1:59:A:ASP:H	1:57:A:VAL:HG23	3	0.22
(1,280)	1:77:A:LEU:HD12	1:77:A:LEU:HD13	1	0.22
(1,280)	1:77:A:LEU:HD12	1:77:A:LEU:HD13	2	0.22
(1,280)	1:77:A:LEU:HD12	1:77:A:LEU:HD11	5	0.22
(1,280)	1:77:A:LEU:HD12	1:77:A:LEU:HD13	6	0.22
(1,280)	1:77:A:LEU:HD11	1:77:A:LEU:HD13	7	0.22
(1,280)	1:77:A:LEU:HD11	1:77:A:LEU:HD13	8	0.22
(1,280)	1:77:A:LEU:HD12	1:77:A:LEU:HD11	9	0.22
(1,205)	1:84:A:ALA:H	1:84:A:ALA:HB1	10	0.22
(1,189)	1:91:A:CYS:H	1:77:A:LEU:HD23	10	0.22
(1,1141)	1:57:A:VAL:HG21	1:60:A:LYS:HA	10	0.21
(1,1136)	1:50:A:VAL:HG11	1:64:A:HIS:HE1	7	0.21
(1,1121)	1:43:A:CYS:HA	1:50:A:VAL:HG23	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1121)	1:43:A:CYS:HA	1:50:A:VAL:HG21	3	0.21
(1,1086)	1:95:A:PHE:H	1:97:A:GLN:HB2	9	0.21
(1,1081)	1:88:A:GLU:H	1:90:A:TYR:HE1	7	0.21
(1,1051)	1:60:A:LYS:H	1:60:A:LYS:HB3	1	0.21
(1,1006)	1:75:A:THR:HB	1:75:A:THR:HG21	4	0.21
(1,1006)	1:75:A:THR:HB	1:75:A:THR:HG21	8	0.21
(1,1006)	1:75:A:THR:HB	1:75:A:THR:HG21	9	0.21
(1,1006)	1:75:A:THR:HB	1:75:A:THR:HG23	10	0.21
(1,978)	1:77:A:LEU:HD11	1:89:A:PHE:HB2	5	0.21
(1,978)	1:77:A:LEU:HD13	1:89:A:PHE:HB2	9	0.21
(1,944)	1:42:A:THR:HB	1:42:A:THR:HG23	1	0.21
(1,944)	1:42:A:THR:HB	1:42:A:THR:HG21	2	0.21
(1,944)	1:42:A:THR:HB	1:42:A:THR:HG22	3	0.21
(1,944)	1:42:A:THR:HB	1:42:A:THR:HG23	4	0.21
(1,943)	1:70:A:CYS:HB2	1:75:A:THR:HG23	3	0.21
(1,940)	1:45:A:ALA:HB3	1:67:A:CYS:HB2	6	0.21
(1,923)	1:42:A:THR:HA	1:49:A:THR:HG21	4	0.21
(1,923)	1:42:A:THR:HA	1:49:A:THR:HG23	5	0.21
(1,923)	1:42:A:THR:HA	1:49:A:THR:HG23	7	0.21
(1,867)	1:82:A:TYR:HE2	1:58:A:ALA:HB2	7	0.21
(1,854)	1:82:A:TYR:HE2	1:79:A:LEU:HD11	4	0.21
(1,854)	1:82:A:TYR:HE2	1:79:A:LEU:HD12	7	0.21
(1,748)	1:49:A:THR:HB	1:49:A:THR:HG23	2	0.21
(1,737)	1:68:A:PHE:H	1:68:A:PHE:HD1	10	0.21
(1,639)	1:88:A:GLU:H	1:84:A:ALA:HB1	1	0.21
(1,616)	1:84:A:ALA:H	1:83:A:ALA:HB3	6	0.21
(1,601)	1:82:A:TYR:H	1:92:A:LYS:HD2	6	0.21
(1,534)	1:71:A:LYS:H	1:77:A:LEU:HD12	1	0.21
(1,437)	1:59:A:ASP:H	1:60:A:LYS:H	2	0.21
(1,377)	1:51:A:TYR:H	1:50:A:VAL:HG23	5	0.21
(1,377)	1:51:A:TYR:H	1:50:A:VAL:HG22	6	0.21
(1,280)	1:77:A:LEU:HD12	1:77:A:LEU:HD11	10	0.21
(1,192)	1:79:A:LEU:HB2	1:79:A:LEU:HD13	7	0.21
(1,189)	1:91:A:CYS:H	1:77:A:LEU:HD22	9	0.21
(1,188)	1:92:A:LYS:H	1:77:A:LEU:HD23	5	0.21
(1,186)	1:77:A:LEU:HD22	1:91:A:CYS:HB2	3	0.21
(1,48)	1:50:A:VAL:HG23	1:63:A:PHE:H	4	0.21
(1,46)	1:43:A:CYS:H	1:50:A:VAL:HG23	3	0.21
(1,1155)	1:98:A:LEU:HD21	1:98:A:LEU:HD11	4	0.2
(1,1141)	1:57:A:VAL:HG22	1:60:A:LYS:HA	4	0.2
(1,1141)	1:57:A:VAL:HG21	1:60:A:LYS:HA	8	0.2
(1,1131)	1:56:A:LEU:HG	1:56:A:LEU:HA	4	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1131)	1:56:A:LEU:HG	1:56:A:LEU:HA	9	0.2
(1,1098)	1:95:A:PHE:HA	1:90:A:TYR:HE2	3	0.2
(1,1097)	1:84:A:ALA:HA	1:89:A:PHE:HD2	5	0.2
(1,1097)	1:84:A:ALA:HA	1:89:A:PHE:HD2	9	0.2
(1,1081)	1:88:A:GLU:H	1:90:A:TYR:HE1	2	0.2
(1,1078)	1:77:A:LEU:H	1:68:A:PHE:HD2	7	0.2
(1,1006)	1:75:A:THR:HB	1:75:A:THR:HG23	5	0.2
(1,1003)	1:82:A:TYR:HD2	1:79:A:LEU:HD23	4	0.2
(1,1003)	1:82:A:TYR:HD2	1:79:A:LEU:HD21	5	0.2
(1,944)	1:42:A:THR:HB	1:42:A:THR:HG22	6	0.2
(1,944)	1:42:A:THR:HB	1:42:A:THR:HG23	7	0.2
(1,944)	1:42:A:THR:HB	1:42:A:THR:HG21	8	0.2
(1,943)	1:70:A:CYS:HB2	1:75:A:THR:HG22	1	0.2
(1,940)	1:45:A:ALA:HB2	1:67:A:CYS:HB2	2	0.2
(1,889)	1:79:A:LEU:HD22	1:68:A:PHE:HE1	6	0.2
(1,881)	1:72:A:HIS:HE1	1:98:A:LEU:HD23	2	0.2
(1,862)	1:51:A:TYR:HD1	1:49:A:THR:HG23	9	0.2
(1,854)	1:82:A:TYR:HE2	1:79:A:LEU:HD12	10	0.2
(1,845)	1:63:A:PHE:HE2	1:45:A:ALA:HB3	2	0.2
(1,815)	1:44:A:ALA:HB1	1:89:A:PHE:HZ	7	0.2
(1,815)	1:44:A:ALA:HB2	1:89:A:PHE:HZ	8	0.2
(1,808)	1:98:A:LEU:HD21	1:98:A:LEU:HD11	4	0.2
(1,759)	1:57:A:VAL:HG13	1:57:A:VAL:HA	9	0.2
(1,437)	1:59:A:ASP:H	1:60:A:LYS:H	6	0.2
(1,280)	1:77:A:LEU:HD12	1:77:A:LEU:HD11	3	0.2
(1,280)	1:77:A:LEU:HD12	1:77:A:LEU:HD11	4	0.2
(1,217)	1:89:A:PHE:HA	1:89:A:PHE:HD1	1	0.2
(1,192)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	1	0.2
(1,192)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	4	0.2
(1,192)	1:79:A:LEU:HB2	1:79:A:LEU:HD13	8	0.2
(1,188)	1:92:A:LYS:H	1:77:A:LEU:HD22	6	0.2
(1,182)	1:77:A:LEU:HD12	1:91:A:CYS:HA	5	0.2
(1,43)	1:43:A:CYS:HB3	1:50:A:VAL:HG22	8	0.2
(1,1131)	1:56:A:LEU:HG	1:56:A:LEU:HA	8	0.19
(1,1131)	1:56:A:LEU:HG	1:56:A:LEU:HA	10	0.19
(1,1078)	1:77:A:LEU:H	1:68:A:PHE:HD2	9	0.19
(1,1006)	1:75:A:THR:HB	1:75:A:THR:HG23	2	0.19
(1,1006)	1:75:A:THR:HB	1:75:A:THR:HG23	6	0.19
(1,1003)	1:82:A:TYR:HD2	1:79:A:LEU:HD23	8	0.19
(1,978)	1:77:A:LEU:HD11	1:89:A:PHE:HB2	3	0.19
(1,975)	1:95:A:PHE:HB3	1:83:A:ALA:HB2	3	0.19
(1,972)	1:71:A:LYS:HG2	1:71:A:LYS:HE2	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,972)	1:71:A:LYS:HG2	1:71:A:LYS:HE2	10	0.19
(1,944)	1:42:A:THR:HB	1:42:A:THR:HG23	5	0.19
(1,944)	1:42:A:THR:HB	1:42:A:THR:HG22	9	0.19
(1,881)	1:72:A:HIS:HE1	1:98:A:LEU:HD21	6	0.19
(1,854)	1:82:A:TYR:HE2	1:79:A:LEU:HD11	9	0.19
(1,616)	1:84:A:ALA:H	1:83:A:ALA:HB3	4	0.19
(1,528)	1:71:A:LYS:H	1:72:A:HIS:HB2	8	0.19
(1,377)	1:51:A:TYR:H	1:50:A:VAL:HG22	9	0.19
(1,205)	1:84:A:ALA:H	1:84:A:ALA:HB1	5	0.19
(1,188)	1:92:A:LYS:H	1:77:A:LEU:HD21	4	0.19
(1,160)	1:72:A:HIS:HB2	1:90:A:TYR:HE2	2	0.19
(1,48)	1:50:A:VAL:HG22	1:63:A:PHE:H	1	0.19
(1,43)	1:43:A:CYS:HB3	1:50:A:VAL:HG21	1	0.19
(1,43)	1:43:A:CYS:HB3	1:50:A:VAL:HG22	6	0.19
(1,1095)	1:99:A:PHE:HE2	1:90:A:TYR:HD1	7	0.18
(1,1080)	1:81:A:SER:H	1:79:A:LEU:HB2	8	0.18
(1,1056)	1:84:A:ALA:HA	1:89:A:PHE:HD2	10	0.18
(1,1004)	1:69:A:CYS:HA	1:77:A:LEU:HD21	3	0.18
(1,978)	1:77:A:LEU:HD12	1:89:A:PHE:HB2	1	0.18
(1,978)	1:77:A:LEU:HD12	1:89:A:PHE:HB2	8	0.18
(1,972)	1:71:A:LYS:HG2	1:71:A:LYS:HE2	4	0.18
(1,923)	1:42:A:THR:HA	1:49:A:THR:HG21	3	0.18
(1,923)	1:42:A:THR:HA	1:49:A:THR:HG23	6	0.18
(1,891)	1:68:A:PHE:HE1	1:56:A:LEU:HD11	4	0.18
(1,891)	1:68:A:PHE:HE1	1:56:A:LEU:HD12	10	0.18
(1,883)	1:61:A:LEU:HD13	1:63:A:PHE:HZ	7	0.18
(1,881)	1:72:A:HIS:HE1	1:98:A:LEU:HD21	1	0.18
(1,854)	1:82:A:TYR:HE2	1:79:A:LEU:HD11	6	0.18
(1,748)	1:49:A:THR:HB	1:49:A:THR:HG22	8	0.18
(1,616)	1:84:A:ALA:H	1:83:A:ALA:HB1	3	0.18
(1,534)	1:71:A:LYS:H	1:77:A:LEU:HD12	6	0.18
(1,534)	1:71:A:LYS:H	1:77:A:LEU:HD11	10	0.18
(1,377)	1:51:A:TYR:H	1:50:A:VAL:HG22	8	0.18
(1,205)	1:84:A:ALA:H	1:84:A:ALA:HB3	6	0.18
(1,192)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	6	0.18
(1,188)	1:92:A:LYS:H	1:77:A:LEU:HD23	1	0.18
(1,188)	1:92:A:LYS:H	1:77:A:LEU:HD22	10	0.18
(1,186)	1:77:A:LEU:HD21	1:91:A:CYS:HB2	7	0.18
(1,93)	1:58:A:ALA:HA	1:79:A:LEU:HD21	4	0.18
(1,43)	1:43:A:CYS:HB3	1:50:A:VAL:HG22	2	0.18
(1,43)	1:43:A:CYS:HB3	1:50:A:VAL:HG22	4	0.18
(1,43)	1:43:A:CYS:HB3	1:50:A:VAL:HG22	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1131)	1:56:A:LEU:HG	1:56:A:LEU:HA	3	0.17
(1,1131)	1:56:A:LEU:HG	1:56:A:LEU:HA	7	0.17
(1,1121)	1:43:A:CYS:HA	1:50:A:VAL:HG23	6	0.17
(1,1121)	1:43:A:CYS:HA	1:50:A:VAL:HG23	7	0.17
(1,1121)	1:43:A:CYS:HA	1:50:A:VAL:HG23	8	0.17
(1,1121)	1:43:A:CYS:HA	1:50:A:VAL:HG23	10	0.17
(1,1098)	1:95:A:PHE:HA	1:99:A:PHE:HD2	4	0.17
(1,1098)	1:95:A:PHE:HA	1:99:A:PHE:HD2	7	0.17
(1,1056)	1:84:A:ALA:HA	1:89:A:PHE:HD2	9	0.17
(1,1009)	1:70:A:CYS:HB3	1:77:A:LEU:HD21	7	0.17
(1,1004)	1:69:A:CYS:HA	1:77:A:LEU:HD21	1	0.17
(1,1004)	1:69:A:CYS:HA	1:77:A:LEU:HD23	8	0.17
(1,1003)	1:82:A:TYR:HD2	1:79:A:LEU:HD22	1	0.17
(1,978)	1:77:A:LEU:HD13	1:89:A:PHE:HB2	7	0.17
(1,972)	1:71:A:LYS:HG2	1:71:A:LYS:HE2	2	0.17
(1,972)	1:71:A:LYS:HG2	1:71:A:LYS:HE2	6	0.17
(1,923)	1:42:A:THR:HA	1:49:A:THR:HG21	1	0.17
(1,891)	1:68:A:PHE:HE1	1:56:A:LEU:HD13	6	0.17
(1,889)	1:79:A:LEU:HD23	1:68:A:PHE:HE1	9	0.17
(1,883)	1:61:A:LEU:HD12	1:63:A:PHE:HZ	3	0.17
(1,883)	1:61:A:LEU:HD11	1:63:A:PHE:HZ	4	0.17
(1,883)	1:61:A:LEU:HD13	1:63:A:PHE:HZ	8	0.17
(1,883)	1:61:A:LEU:HD12	1:63:A:PHE:HZ	9	0.17
(1,881)	1:72:A:HIS:HE1	1:98:A:LEU:HD21	8	0.17
(1,881)	1:72:A:HIS:HE1	1:98:A:LEU:HD22	10	0.17
(1,874)	1:85:A:LEU:HD21	1:95:A:PHE:HE1	10	0.17
(1,868)	1:95:A:PHE:HE2	1:83:A:ALA:HB3	4	0.17
(1,862)	1:51:A:TYR:HD1	1:49:A:THR:HG22	1	0.17
(1,845)	1:63:A:PHE:HE2	1:45:A:ALA:HB1	8	0.17
(1,824)	1:89:A:PHE:HD2	1:63:A:PHE:HZ	8	0.17
(1,737)	1:68:A:PHE:H	1:68:A:PHE:HD1	2	0.17
(1,616)	1:84:A:ALA:H	1:83:A:ALA:HB3	8	0.17
(1,607)	1:83:A:ALA:H	1:82:A:TYR:HE1	5	0.17
(1,549)	1:73:A:CYS:H	1:90:A:TYR:HD1	9	0.17
(1,377)	1:51:A:TYR:H	1:50:A:VAL:HG21	1	0.17
(1,188)	1:92:A:LYS:H	1:77:A:LEU:HD21	9	0.17
(1,160)	1:72:A:HIS:HB2	1:90:A:TYR:HE2	5	0.17
(1,118)	1:62:A:ILE:HB	1:62:A:ILE:HG23	3	0.17
(1,118)	1:62:A:ILE:HB	1:62:A:ILE:HG21	7	0.17
(1,118)	1:62:A:ILE:HB	1:62:A:ILE:HG21	8	0.17
(1,109)	1:61:A:LEU:H	1:61:A:LEU:HD21	2	0.17
(1,48)	1:50:A:VAL:HG23	1:63:A:PHE:H	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,46)	1:43:A:CYS:H	1:50:A:VAL:HG23	5	0.17
(1,43)	1:43:A:CYS:HB3	1:50:A:VAL:HG22	9	0.17
(1,43)	1:43:A:CYS:HB3	1:50:A:VAL:HG22	10	0.17
(1,29)	1:50:A:VAL:H	1:49:A:THR:HG22	1	0.17
(1,1131)	1:56:A:LEU:HG	1:56:A:LEU:HA	5	0.16
(1,1120)	1:49:A:THR:HA	1:42:A:THR:HG22	5	0.16
(1,1114)	1:69:A:CYS:HA	1:77:A:LEU:HD21	5	0.16
(1,1056)	1:84:A:ALA:HA	1:89:A:PHE:HD2	5	0.16
(1,891)	1:68:A:PHE:HE1	1:56:A:LEU:HD13	9	0.16
(1,883)	1:61:A:LEU:HD13	1:63:A:PHE:HZ	1	0.16
(1,883)	1:61:A:LEU:HD11	1:63:A:PHE:HZ	5	0.16
(1,881)	1:72:A:HIS:HE1	1:98:A:LEU:HD21	4	0.16
(1,877)	1:94:A:HIS:HE1	1:73:A:CYS:HA	5	0.16
(1,875)	1:86:A:HIS:HD2	1:85:A:LEU:HD22	1	0.16
(1,867)	1:82:A:TYR:HE1	1:58:A:ALA:HB3	2	0.16
(1,866)	1:95:A:PHE:HD1	1:83:A:ALA:HB3	6	0.16
(1,845)	1:63:A:PHE:HE2	1:45:A:ALA:HB3	7	0.16
(1,824)	1:89:A:PHE:HD1	1:63:A:PHE:HZ	7	0.16
(1,785)	1:78:A:SER:HB2	1:78:A:SER:HA	1	0.16
(1,785)	1:78:A:SER:HB2	1:78:A:SER:HA	3	0.16
(1,781)	1:71:A:LYS:HG2	1:71:A:LYS:HE2	5	0.16
(1,781)	1:71:A:LYS:HG2	1:71:A:LYS:HE2	10	0.16
(1,737)	1:68:A:PHE:H	1:68:A:PHE:HD1	1	0.16
(1,737)	1:68:A:PHE:H	1:68:A:PHE:HD1	7	0.16
(1,629)	1:87:A:GLY:H	1:84:A:ALA:HB1	1	0.16
(1,549)	1:73:A:CYS:H	1:90:A:TYR:HD1	6	0.16
(1,534)	1:71:A:LYS:H	1:77:A:LEU:HD11	4	0.16
(1,534)	1:71:A:LYS:H	1:77:A:LEU:HD13	9	0.16
(1,493)	1:65:A:ASN:H	1:50:A:VAL:HG22	1	0.16
(1,377)	1:51:A:TYR:H	1:50:A:VAL:HG22	2	0.16
(1,286)	1:40:A:LYS:H	1:41:A:GLU:HG3	5	0.16
(1,205)	1:84:A:ALA:H	1:84:A:ALA:HB2	2	0.16
(1,189)	1:91:A:CYS:H	1:77:A:LEU:HD21	7	0.16
(1,160)	1:72:A:HIS:HB2	1:90:A:TYR:HE1	7	0.16
(1,118)	1:62:A:ILE:HB	1:62:A:ILE:HG21	1	0.16
(1,118)	1:62:A:ILE:HB	1:62:A:ILE:HG21	2	0.16
(1,118)	1:62:A:ILE:HB	1:62:A:ILE:HG21	6	0.16
(1,118)	1:62:A:ILE:HB	1:62:A:ILE:HG22	9	0.16
(1,118)	1:62:A:ILE:HB	1:62:A:ILE:HG21	10	0.16
(1,77)	1:55:A:ARG:HB3	1:50:A:VAL:HB	8	0.16
(1,76)	1:55:A:ARG:HB3	1:50:A:VAL:HG12	5	0.16
(1,48)	1:50:A:VAL:HG23	1:63:A:PHE:H	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,43)	1:43:A:CYS:HB3	1:50:A:VAL:HG23	3	0.16
(1,43)	1:43:A:CYS:HB3	1:50:A:VAL:HG23	5	0.16
(1,1152)	1:50:A:VAL:HG13	1:63:A:PHE:HA	10	0.15
(1,1148)	1:57:A:VAL:HG23	1:60:A:LYS:HG3	4	0.15
(1,1121)	1:43:A:CYS:HA	1:50:A:VAL:HG21	5	0.15
(1,1121)	1:43:A:CYS:HA	1:50:A:VAL:HG23	9	0.15
(1,1106)	1:44:A:ALA:HB2	1:89:A:PHE:HZ	8	0.15
(1,1097)	1:84:A:ALA:HA	1:89:A:PHE:HD2	2	0.15
(1,1009)	1:70:A:CYS:HB3	1:77:A:LEU:HD23	4	0.15
(1,1004)	1:69:A:CYS:HA	1:77:A:LEU:HD22	2	0.15
(1,891)	1:68:A:PHE:HE1	1:56:A:LEU:HD12	2	0.15
(1,883)	1:61:A:LEU:HD11	1:63:A:PHE:HZ	2	0.15
(1,883)	1:61:A:LEU:HD13	1:63:A:PHE:HZ	6	0.15
(1,883)	1:61:A:LEU:HD12	1:63:A:PHE:HZ	10	0.15
(1,880)	1:50:A:VAL:HG11	1:64:A:HIS:HD2	8	0.15
(1,785)	1:78:A:SER:HB2	1:78:A:SER:HA	2	0.15
(1,785)	1:78:A:SER:HB2	1:78:A:SER:HA	5	0.15
(1,781)	1:71:A:LYS:HG2	1:71:A:LYS:HE2	4	0.15
(1,188)	1:92:A:LYS:H	1:77:A:LEU:HD21	2	0.15
(1,153)	1:71:A:LYS:HA	1:71:A:LYS:HE2	8	0.15
(1,146)	1:70:A:CYS:HA	1:77:A:LEU:HD11	10	0.15
(1,118)	1:62:A:ILE:HB	1:62:A:ILE:HG22	4	0.15
(1,118)	1:62:A:ILE:HB	1:62:A:ILE:HG21	5	0.15
(1,77)	1:55:A:ARG:HB3	1:50:A:VAL:HB	7	0.15
(1,48)	1:50:A:VAL:HG23	1:63:A:PHE:H	7	0.15
(1,48)	1:50:A:VAL:HG23	1:63:A:PHE:H	9	0.15
(1,41)	1:50:A:VAL:HG11	1:50:A:VAL:HG22	1	0.15
(1,41)	1:50:A:VAL:HG11	1:50:A:VAL:HG21	3	0.15
(1,29)	1:50:A:VAL:H	1:49:A:THR:HG21	7	0.15
(1,1121)	1:43:A:CYS:HA	1:50:A:VAL:HG23	4	0.14
(1,1109)	1:95:A:PHE:HE1	1:85:A:LEU:HA	10	0.14
(1,1106)	1:44:A:ALA:HB1	1:89:A:PHE:HZ	7	0.14
(1,1098)	1:95:A:PHE:HA	1:90:A:TYR:HE2	8	0.14
(1,1095)	1:99:A:PHE:HE2	1:90:A:TYR:HD1	5	0.14
(1,1087)	1:96:A:GLN:H	1:83:A:ALA:HB3	7	0.14
(1,1014)	1:79:A:LEU:HD11	1:79:A:LEU:HG	7	0.14
(1,972)	1:71:A:LYS:HG2	1:71:A:LYS:HE2	7	0.14
(1,941)	1:60:A:LYS:HG2	1:60:A:LYS:HA	1	0.14
(1,940)	1:45:A:ALA:HB3	1:67:A:CYS:HB2	9	0.14
(1,933)	1:49:A:THR:HA	1:49:A:THR:HB	9	0.14
(1,927)	1:94:A:HIS:HE1	1:73:A:CYS:HB2	4	0.14
(1,927)	1:94:A:HIS:HE1	1:73:A:CYS:HB2	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,891)	1:68:A:PHE:HE1	1:56:A:LEU:HD12	1	0.14
(1,891)	1:68:A:PHE:HE1	1:56:A:LEU:HD11	3	0.14
(1,891)	1:68:A:PHE:HE1	1:56:A:LEU:HD13	7	0.14
(1,891)	1:68:A:PHE:HE1	1:56:A:LEU:HD13	8	0.14
(1,881)	1:72:A:HIS:HE1	1:98:A:LEU:HD21	9	0.14
(1,877)	1:94:A:HIS:HE1	1:73:A:CYS:HA	3	0.14
(1,877)	1:94:A:HIS:HE1	1:73:A:CYS:HA	6	0.14
(1,785)	1:78:A:SER:HB2	1:78:A:SER:HA	6	0.14
(1,785)	1:78:A:SER:HB2	1:78:A:SER:HA	8	0.14
(1,785)	1:78:A:SER:HB2	1:78:A:SER:HA	10	0.14
(1,781)	1:71:A:LYS:HG2	1:71:A:LYS:HE2	2	0.14
(1,781)	1:71:A:LYS:HG2	1:71:A:LYS:HE2	6	0.14
(1,769)	1:63:A:PHE:HE1	1:63:A:PHE:HZ	7	0.14
(1,769)	1:63:A:PHE:HE1	1:63:A:PHE:HZ	8	0.14
(1,737)	1:68:A:PHE:H	1:68:A:PHE:HD1	3	0.14
(1,736)	1:96:A:GLN:H	1:95:A:PHE:HD2	9	0.14
(1,719)	1:103:A:GLY:H	1:92:A:LYS:H	5	0.14
(1,554)	1:75:A:THR:H	1:75:A:THR:HG22	1	0.14
(1,549)	1:73:A:CYS:H	1:90:A:TYR:HD1	5	0.14
(1,443)	1:59:A:ASP:H	1:57:A:VAL:HG21	7	0.14
(1,297)	1:42:A:THR:H	1:42:A:THR:HG21	3	0.14
(1,217)	1:89:A:PHE:HA	1:89:A:PHE:HD1	3	0.14
(1,217)	1:89:A:PHE:HA	1:89:A:PHE:HD1	10	0.14
(1,205)	1:84:A:ALA:H	1:84:A:ALA:HB1	3	0.14
(1,109)	1:61:A:LEU:H	1:61:A:LEU:HD21	8	0.14
(1,93)	1:58:A:ALA:HA	1:79:A:LEU:HD23	1	0.14
(1,41)	1:50:A:VAL:HG13	1:50:A:VAL:HG23	7	0.14
(1,41)	1:50:A:VAL:HG13	1:50:A:VAL:HG23	8	0.14
(1,36)	1:50:A:VAL:HG13	1:54:A:GLU:HB3	4	0.14
(1,29)	1:50:A:VAL:H	1:49:A:THR:HG21	6	0.14
(1,18)	1:42:A:THR:HG23	1:47:A:GLN:HA	5	0.14
(1,1123)	1:97:A:GLN:HG3	1:97:A:GLN:HA	7	0.13
(1,1095)	1:99:A:PHE:HE2	1:90:A:TYR:HD1	2	0.13
(1,1095)	1:99:A:PHE:HE2	1:90:A:TYR:HD1	6	0.13
(1,1081)	1:88:A:GLU:H	1:90:A:TYR:HE1	8	0.13
(1,1080)	1:81:A:SER:H	1:79:A:LEU:HB2	1	0.13
(1,1078)	1:77:A:LEU:H	1:68:A:PHE:HD2	10	0.13
(1,1077)	1:75:A:THR:H	1:74:A:HIS:HA	9	0.13
(1,1071)	1:65:A:ASN:H	1:54:A:GLU:HB2	1	0.13
(1,1014)	1:79:A:LEU:HD13	1:79:A:LEU:HG	4	0.13
(1,1014)	1:79:A:LEU:HD11	1:79:A:LEU:HG	8	0.13
(1,933)	1:49:A:THR:HA	1:49:A:THR:HB	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,933)	1:49:A:THR:HA	1:49:A:THR:HB	3	0.13
(1,933)	1:49:A:THR:HA	1:49:A:THR:HB	5	0.13
(1,933)	1:49:A:THR:HA	1:49:A:THR:HB	7	0.13
(1,931)	1:95:A:PHE:HA	1:99:A:PHE:HD2	5	0.13
(1,927)	1:94:A:HIS:HE1	1:73:A:CYS:HB2	2	0.13
(1,927)	1:94:A:HIS:HE1	1:73:A:CYS:HB2	3	0.13
(1,927)	1:94:A:HIS:HE1	1:73:A:CYS:HB2	8	0.13
(1,866)	1:95:A:PHE:HD2	1:83:A:ALA:HB2	2	0.13
(1,824)	1:89:A:PHE:HD2	1:63:A:PHE:HZ	10	0.13
(1,785)	1:78:A:SER:HB2	1:78:A:SER:HA	7	0.13
(1,769)	1:63:A:PHE:HE1	1:63:A:PHE:HZ	1	0.13
(1,769)	1:63:A:PHE:HE1	1:63:A:PHE:HZ	3	0.13
(1,769)	1:63:A:PHE:HE1	1:63:A:PHE:HZ	4	0.13
(1,769)	1:63:A:PHE:HE1	1:63:A:PHE:HZ	9	0.13
(1,769)	1:63:A:PHE:HE1	1:63:A:PHE:HZ	10	0.13
(1,711)	1:100:A:LYS:H	1:90:A:TYR:HE2	10	0.13
(1,633)	1:88:A:GLU:H	1:86:A:HIS:HB2	3	0.13
(1,629)	1:87:A:GLY:H	1:84:A:ALA:HB3	10	0.13
(1,616)	1:84:A:ALA:H	1:83:A:ALA:HB1	1	0.13
(1,607)	1:83:A:ALA:H	1:82:A:TYR:HE1	2	0.13
(1,607)	1:83:A:ALA:H	1:82:A:TYR:HE1	6	0.13
(1,595)	1:82:A:TYR:H	1:82:A:TYR:HD1	9	0.13
(1,555)	1:76:A:LYS:H	1:75:A:THR:HG22	6	0.13
(1,377)	1:51:A:TYR:H	1:50:A:VAL:HG23	3	0.13
(1,300)	1:42:A:THR:H	1:41:A:GLU:HG3	2	0.13
(1,192)	1:79:A:LEU:HB2	1:79:A:LEU:HD11	2	0.13
(1,146)	1:70:A:CYS:HA	1:77:A:LEU:HD12	1	0.13
(1,77)	1:55:A:ARG:HB3	1:50:A:VAL:HB	1	0.13
(1,41)	1:50:A:VAL:HG11	1:50:A:VAL:HG23	4	0.13
(1,41)	1:50:A:VAL:HG13	1:50:A:VAL:HG21	5	0.13
(1,29)	1:50:A:VAL:H	1:49:A:THR:HG22	8	0.13
(1,18)	1:42:A:THR:HG22	1:47:A:GLN:HA	9	0.13
(1,1152)	1:50:A:VAL:HG11	1:63:A:PHE:HA	1	0.12
(1,1123)	1:97:A:GLN:HG3	1:97:A:GLN:HA	5	0.12
(1,1123)	1:97:A:GLN:HG3	1:97:A:GLN:HA	6	0.12
(1,1123)	1:44:A:ALA:HA	1:47:A:GLN:HG3	9	0.12
(1,1114)	1:69:A:CYS:HA	1:77:A:LEU:HD22	4	0.12
(1,1114)	1:69:A:CYS:HA	1:77:A:LEU:HD23	6	0.12
(1,1098)	1:95:A:PHE:HA	1:90:A:TYR:HE2	1	0.12
(1,1087)	1:96:A:GLN:H	1:83:A:ALA:HB1	5	0.12
(1,1056)	1:84:A:ALA:HA	1:89:A:PHE:HD2	2	0.12
(1,1014)	1:79:A:LEU:HD13	1:79:A:LEU:HG	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1009)	1:70:A:CYS:HB3	1:77:A:LEU:HD21	10	0.12
(1,933)	1:49:A:THR:HA	1:49:A:THR:HB	2	0.12
(1,933)	1:49:A:THR:HA	1:49:A:THR:HB	6	0.12
(1,933)	1:49:A:THR:HA	1:49:A:THR:HB	8	0.12
(1,933)	1:49:A:THR:HA	1:49:A:THR:HB	10	0.12
(1,931)	1:95:A:PHE:HA	1:99:A:PHE:HD2	1	0.12
(1,931)	1:95:A:PHE:HA	1:99:A:PHE:HD2	8	0.12
(1,927)	1:94:A:HIS:HE1	1:73:A:CYS:HB2	1	0.12
(1,927)	1:94:A:HIS:HE1	1:73:A:CYS:HB2	6	0.12
(1,927)	1:94:A:HIS:HE1	1:73:A:CYS:HB2	7	0.12
(1,923)	1:42:A:THR:HA	1:49:A:THR:HG21	10	0.12
(1,891)	1:68:A:PHE:HE1	1:56:A:LEU:HD11	5	0.12
(1,877)	1:94:A:HIS:HE1	1:73:A:CYS:HA	2	0.12
(1,853)	1:84:A:ALA:HB3	1:82:A:TYR:HE1	6	0.12
(1,824)	1:89:A:PHE:HD2	1:63:A:PHE:HZ	1	0.12
(1,824)	1:89:A:PHE:HD2	1:63:A:PHE:HZ	4	0.12
(1,824)	1:89:A:PHE:HD2	1:63:A:PHE:HZ	9	0.12
(1,769)	1:63:A:PHE:HE1	1:63:A:PHE:HZ	2	0.12
(1,769)	1:63:A:PHE:HE1	1:63:A:PHE:HZ	5	0.12
(1,753)	1:51:A:TYR:HB2	1:51:A:TYR:HD1	8	0.12
(1,735)	1:43:A:CYS:H	1:47:A:GLN:HB3	1	0.12
(1,719)	1:103:A:GLY:H	1:92:A:LYS:H	9	0.12
(1,616)	1:84:A:ALA:H	1:83:A:ALA:HB2	7	0.12
(1,616)	1:84:A:ALA:H	1:83:A:ALA:HB2	9	0.12
(1,607)	1:83:A:ALA:H	1:82:A:TYR:HE1	9	0.12
(1,595)	1:82:A:TYR:H	1:82:A:TYR:HD1	7	0.12
(1,555)	1:76:A:LYS:H	1:75:A:THR:HG22	2	0.12
(1,549)	1:73:A:CYS:H	1:90:A:TYR:HD1	2	0.12
(1,547)	1:73:A:CYS:H	1:73:A:CYS:HB2	6	0.12
(1,547)	1:73:A:CYS:H	1:73:A:CYS:HB2	7	0.12
(1,297)	1:42:A:THR:H	1:42:A:THR:HG23	2	0.12
(1,264)	1:97:A:GLN:H	1:97:A:GLN:HB3	3	0.12
(1,264)	1:97:A:GLN:H	1:97:A:GLN:HB3	5	0.12
(1,264)	1:97:A:GLN:H	1:97:A:GLN:HB3	7	0.12
(1,264)	1:97:A:GLN:H	1:97:A:GLN:HB3	9	0.12
(1,217)	1:89:A:PHE:HA	1:89:A:PHE:HD1	4	0.12
(1,205)	1:84:A:ALA:H	1:84:A:ALA:HB2	1	0.12
(1,192)	1:79:A:LEU:HB2	1:79:A:LEU:HD11	5	0.12
(1,192)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	9	0.12
(1,146)	1:70:A:CYS:HA	1:77:A:LEU:HD12	2	0.12
(1,146)	1:70:A:CYS:HA	1:77:A:LEU:HD12	6	0.12
(1,146)	1:70:A:CYS:HA	1:77:A:LEU:HD13	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,93)	1:58:A:ALA:HA	1:79:A:LEU:HD21	2	0.12
(1,76)	1:55:A:ARG:HB3	1:50:A:VAL:HG12	8	0.12
(1,41)	1:50:A:VAL:HG13	1:50:A:VAL:HG23	2	0.12
(1,36)	1:50:A:VAL:HG12	1:54:A:GLU:HB3	10	0.12
(1,29)	1:50:A:VAL:H	1:49:A:THR:HG22	3	0.12
(1,29)	1:50:A:VAL:H	1:49:A:THR:HG21	5	0.12
(1,29)	1:50:A:VAL:H	1:49:A:THR:HG22	10	0.12
(1,2)	1:41:A:GLU:HG3	1:55:A:ARG:HB2	10	0.12
(1,1145)	1:77:A:LEU:HD23	1:75:A:THR:HG23	9	0.11
(1,1049)	1:61:A:LEU:H	1:57:A:VAL:HG22	3	0.11
(1,1041)	1:79:A:LEU:HD21	1:58:A:ALA:HB2	1	0.11
(1,1014)	1:79:A:LEU:HD13	1:79:A:LEU:HG	1	0.11
(1,1014)	1:79:A:LEU:HD13	1:79:A:LEU:HG	10	0.11
(1,1009)	1:70:A:CYS:HB3	1:77:A:LEU:HD23	2	0.11
(1,1009)	1:70:A:CYS:HB3	1:77:A:LEU:HD22	3	0.11
(1,933)	1:49:A:THR:HA	1:49:A:THR:HB	4	0.11
(1,931)	1:95:A:PHE:HA	1:99:A:PHE:HD2	2	0.11
(1,931)	1:95:A:PHE:HA	1:99:A:PHE:HD2	3	0.11
(1,931)	1:95:A:PHE:HA	1:99:A:PHE:HD2	10	0.11
(1,916)	1:52:A:PRO:HA	1:52:A:PRO:HB2	1	0.11
(1,916)	1:52:A:PRO:HA	1:52:A:PRO:HB2	4	0.11
(1,916)	1:52:A:PRO:HA	1:52:A:PRO:HB2	5	0.11
(1,916)	1:52:A:PRO:HA	1:52:A:PRO:HB2	6	0.11
(1,916)	1:52:A:PRO:HA	1:52:A:PRO:HB2	7	0.11
(1,916)	1:52:A:PRO:HA	1:52:A:PRO:HB2	10	0.11
(1,877)	1:94:A:HIS:HE1	1:73:A:CYS:HA	1	0.11
(1,858)	1:44:A:ALA:HB3	1:63:A:PHE:HE2	10	0.11
(1,781)	1:71:A:LYS:HG2	1:71:A:LYS:HE2	7	0.11
(1,769)	1:63:A:PHE:HE1	1:63:A:PHE:HZ	6	0.11
(1,753)	1:51:A:TYR:HB2	1:51:A:TYR:HD1	2	0.11
(1,753)	1:51:A:TYR:HB2	1:51:A:TYR:HD1	3	0.11
(1,753)	1:51:A:TYR:HB2	1:51:A:TYR:HD1	10	0.11
(1,735)	1:43:A:CYS:H	1:47:A:GLN:HB3	10	0.11
(1,705)	1:99:A:PHE:H	1:90:A:TYR:HE2	7	0.11
(1,607)	1:83:A:ALA:H	1:82:A:TYR:HE1	10	0.11
(1,577)	1:78:A:SER:H	1:82:A:TYR:HB2	1	0.11
(1,447)	1:60:A:LYS:H	1:60:A:LYS:HD3	8	0.11
(1,300)	1:42:A:THR:H	1:41:A:GLU:HG3	8	0.11
(1,265)	1:96:A:GLN:HG3	1:103:A:GLY:H	4	0.11
(1,264)	1:97:A:GLN:H	1:97:A:GLN:HB3	2	0.11
(1,264)	1:97:A:GLN:H	1:97:A:GLN:HB3	4	0.11
(1,264)	1:97:A:GLN:H	1:97:A:GLN:HB3	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,264)	1:97:A:GLN:H	1:97:A:GLN:HB3	8	0.11
(1,229)	1:91:A:CYS:HB3	1:93:A:PRO:HD2	1	0.11
(1,229)	1:91:A:CYS:HB3	1:93:A:PRO:HD2	4	0.11
(1,217)	1:89:A:PHE:HA	1:89:A:PHE:HD1	8	0.11
(1,96)	1:60:A:LYS:H	1:60:A:LYS:HA	3	0.11
(1,77)	1:55:A:ARG:HB3	1:50:A:VAL:HB	4	0.11
(1,77)	1:55:A:ARG:HB3	1:50:A:VAL:HB	6	0.11
(1,48)	1:50:A:VAL:HG21	1:63:A:PHE:H	3	0.11
(1,48)	1:50:A:VAL:HG23	1:63:A:PHE:H	8	0.11
(1,41)	1:50:A:VAL:HG13	1:50:A:VAL:HG23	6	0.11
(1,1077)	1:75:A:THR:H	1:74:A:HIS:HA	10	0.1
(1,931)	1:95:A:PHE:HA	1:99:A:PHE:HD2	6	0.1
(1,927)	1:94:A:HIS:HE1	1:73:A:CYS:HB2	5	0.1
(1,927)	1:94:A:HIS:HE1	1:73:A:CYS:HB2	10	0.1
(1,916)	1:52:A:PRO:HA	1:52:A:PRO:HB2	2	0.1
(1,916)	1:52:A:PRO:HA	1:52:A:PRO:HB2	3	0.1
(1,916)	1:52:A:PRO:HA	1:52:A:PRO:HB2	9	0.1
(1,858)	1:44:A:ALA:HB3	1:63:A:PHE:HE2	4	0.1
(1,844)	1:63:A:PHE:HD2	1:45:A:ALA:HB1	8	0.1
(1,825)	1:95:A:PHE:HD1	1:90:A:TYR:HD2	6	0.1
(1,824)	1:89:A:PHE:HD2	1:63:A:PHE:HZ	5	0.1
(1,778)	1:68:A:PHE:HE1	1:68:A:PHE:HZ	5	0.1
(1,773)	1:66:A:SER:HA	1:66:A:SER:HB2	1	0.1
(1,547)	1:73:A:CYS:H	1:73:A:CYS:HB2	3	0.1
(1,547)	1:73:A:CYS:H	1:73:A:CYS:HB2	5	0.1
(1,534)	1:71:A:LYS:H	1:77:A:LEU:HD12	8	0.1
(1,265)	1:96:A:GLN:HG3	1:103:A:GLY:H	1	0.1
(1,229)	1:91:A:CYS:HB3	1:93:A:PRO:HD2	9	0.1
(1,153)	1:71:A:LYS:HA	1:71:A:LYS:HE2	1	0.1
(1,146)	1:70:A:CYS:HA	1:77:A:LEU:HD11	4	0.1
(1,96)	1:60:A:LYS:H	1:60:A:LYS:HA	2	0.1
(1,41)	1:50:A:VAL:HG13	1:50:A:VAL:HG23	9	0.1

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

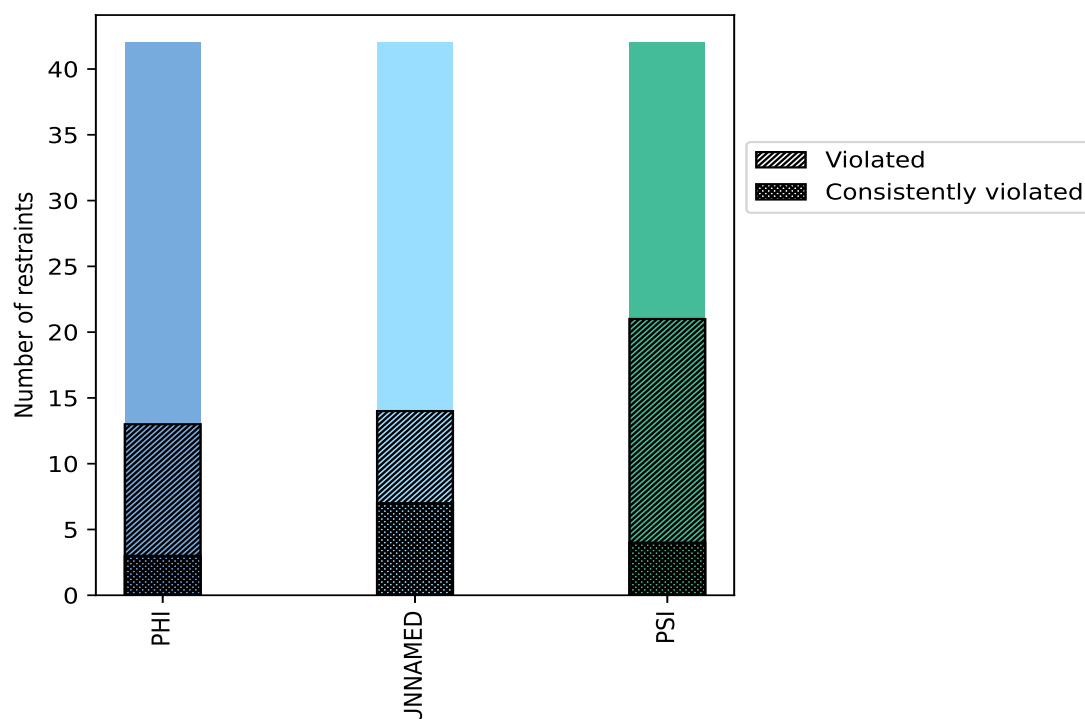
10.1 Summary of dihedral-angle violations [i](#)

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	42	33.3	13	31.0	10.3	3	7.1	2.4
UNNAMED	42	33.3	14	33.3	11.1	7	16.7	5.6
PSI	42	33.3	21	50.0	16.7	4	9.5	3.2
Total	126	100.0	48	38.1	38.1	14	11.1	11.1

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

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



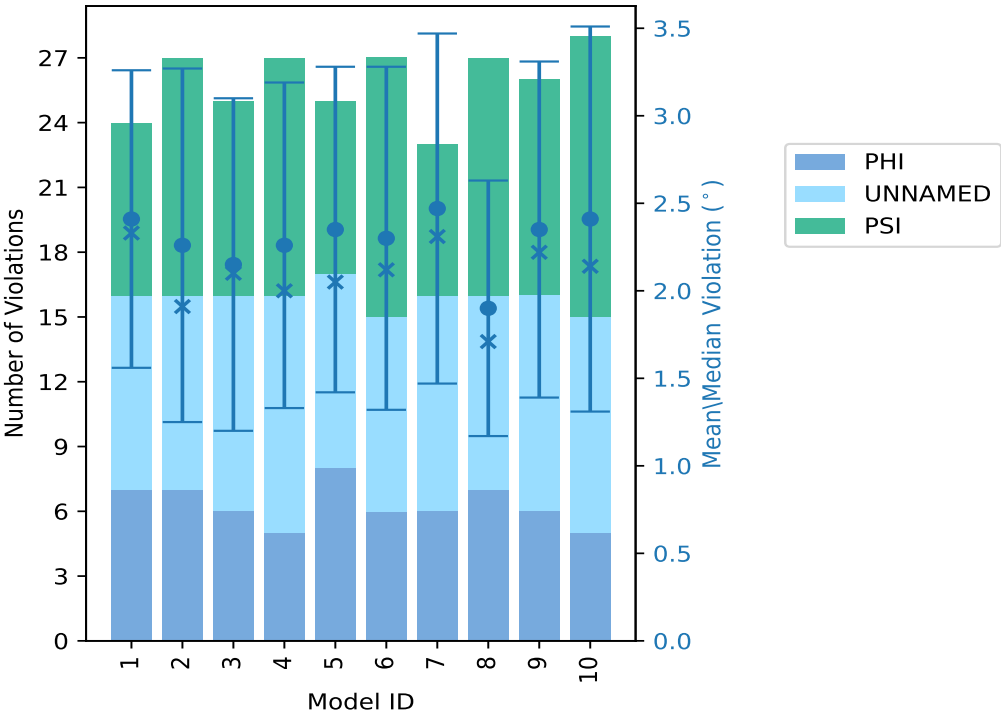
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model ⓘ

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

Model ID	Number of violations				Mean (°)	Max (°)	SD (°)	Median (°)
	PHI	UNNAMED	PSI	Total				
1	7	9	8	24	2.41	3.97	0.85	2.33
2	7	9	11	27	2.26	4.23	1.01	1.91
3	6	10	9	25	2.15	4.9	0.95	2.1
4	5	11	11	27	2.26	4.19	0.93	2.0
5	8	9	8	25	2.35	4.49	0.93	2.05
6	6	9	12	27	2.3	4.62	0.98	2.12
7	6	10	7	23	2.47	4.06	1.0	2.31
8	7	9	11	27	1.9	3.95	0.73	1.71
9	6	10	10	26	2.35	4.0	0.96	2.22
10	5	10	13	28	2.41	4.67	1.1	2.14

10.2.1 Bar graph : Dihedral violation statistics for each model ⓘ



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

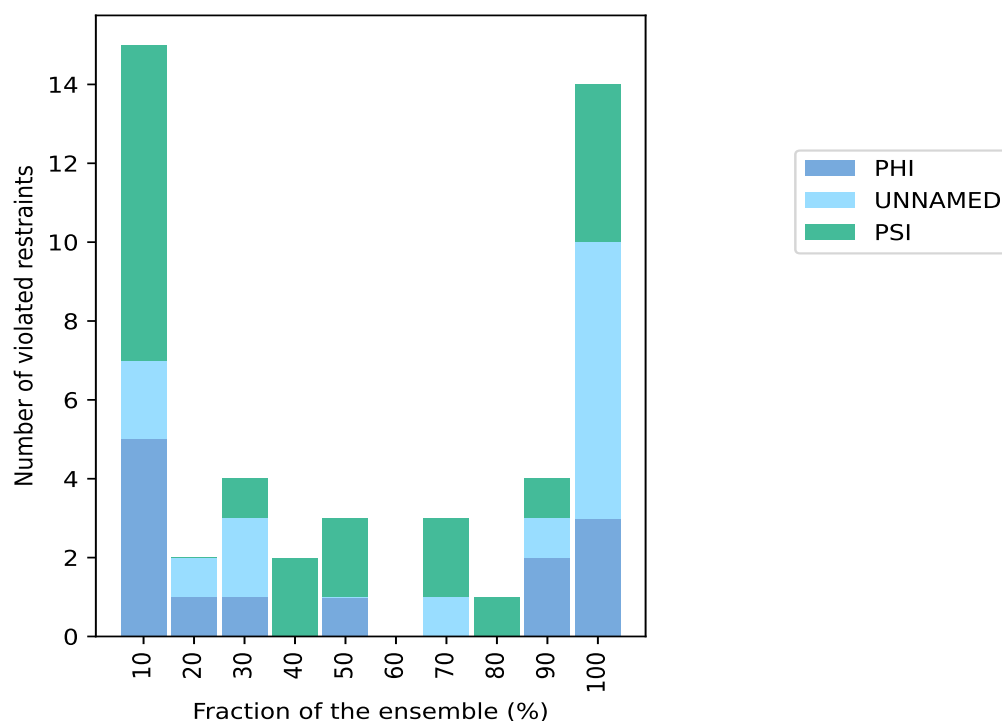
10.3 Dihedral-angle violation statistics for the ensemble [i](#)

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

Number of violated restraints				Fraction of the ensemble	
PHI	UNNAMED	PSI	Total	Count ¹	%
5	2	8	15	1	10.0
1	1	0	2	2	20.0
1	2	1	4	3	30.0
0	0	2	2	4	40.0
1	0	2	3	5	50.0
0	0	0	0	6	60.0
0	1	2	3	7	70.0
0	0	1	1	8	80.0
2	1	1	4	9	90.0
3	7	4	14	10	100.0

¹ Number of models with violations

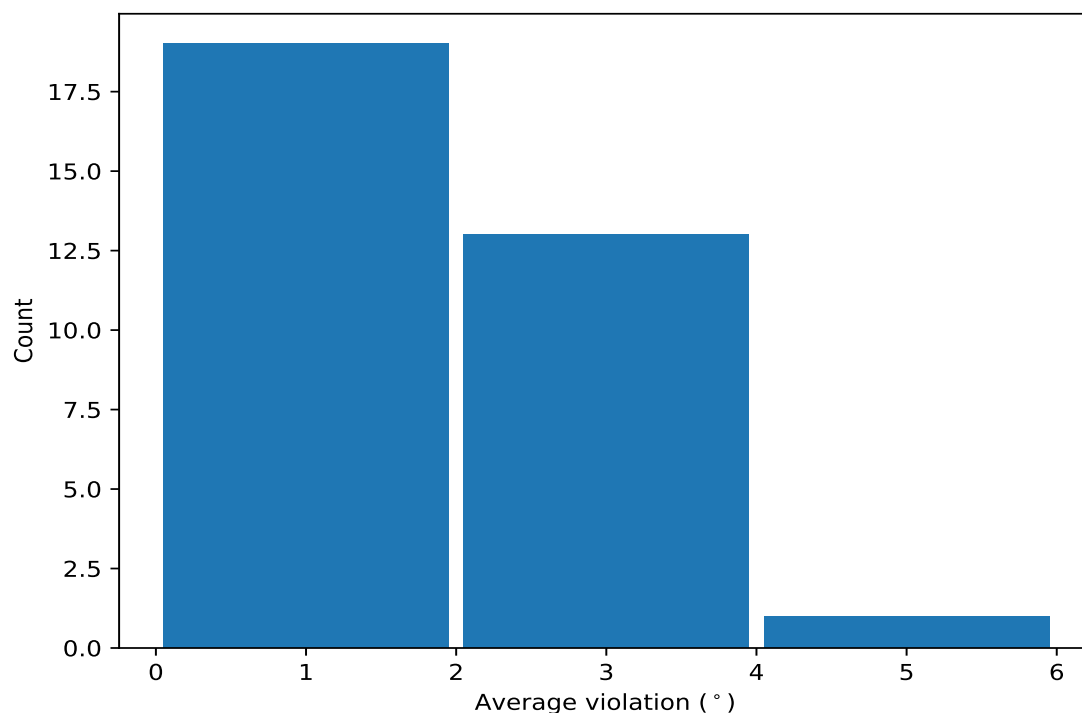
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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
(1,87)	1:46:A:CYS:N	1:46:A:CYS:CA	1:46:A:CYS:CB	1:46:A:CYS:HB2	10	4.02	0.07	4.0
(1,24)	1:58:A:ALA:N	1:58:A:ALA:CA	1:58:A:ALA:C	1:59:A:ASP:N	10	3.76	0.74	3.97
(1,48)	1:78:A:SER:N	1:78:A:SER:CA	1:78:A:SER:C	1:79:A:LEU:N	10	3.73	0.68	3.85
(1,81)	1:97:A:GLN:C	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	10	3.39	0.87	3.46
(1,80)	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	1:98:A:LEU:N	10	2.85	0.8	2.96
(1,107)	1:77:A:LEU:N	1:77:A:LEU:CA	1:77:A:LEU:CB	1:77:A:LEU:HB3	10	2.84	0.34	2.78
(1,33)	1:65:A:ASN:C	1:66:A:SER:N	1:66:A:SER:CA	1:66:A:SER:C	10	2.74	0.53	2.64
(1,116)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB2	10	2.58	0.26	2.55
(1,95)	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:CB	1:63:A:PHE:HB3	10	2.4	0.19	2.39
(1,82)	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	1:99:A:PHE:N	10	2.15	0.64	2.26
(1,100)	1:68:A:PHE:N	1:68:A:PHE:CA	1:68:A:PHE:CB	1:68:A:PHE:HB2	10	2.04	0.2	2.06
(1,117)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB3	10	1.79	0.15	1.8
(1,17)	1:51:A:TYR:C	1:52:A:PRO:N	1:52:A:PRO:CA	1:52:A:PRO:C	10	1.58	0.31	1.62

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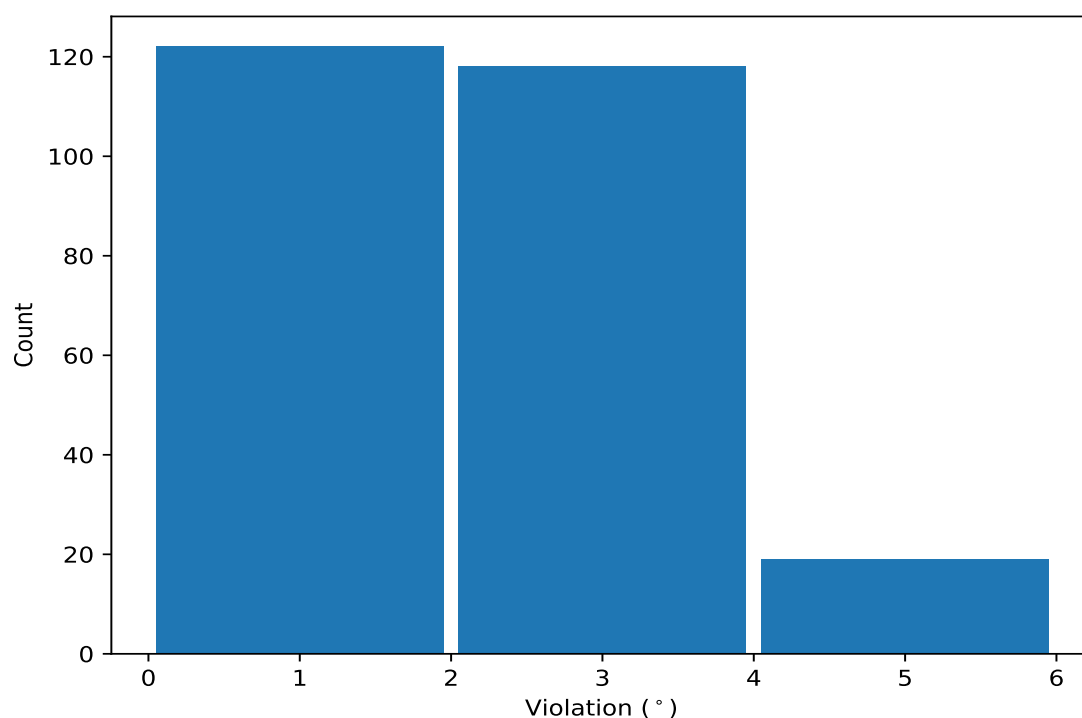
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,125)	1:99:A:PHE:N	1:99:A:PHE:CA	1:99:A:PHE:CB	1:99:A:PHE:HB2	10	1.44	0.17	1.42
(1,91)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB3	9	3.02	0.72	3.34
(1,69)	1:91:A:CYS:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	9	2.25	0.8	2.16
(1,29)	1:62:A:ILE:C	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:C	9	1.91	0.39	2.0
(1,60)	1:86:A:HIS:N	1:86:A:HIS:CA	1:86:A:HIS:C	1:87:A:GLY:N	9	1.78	0.42	1.59
(1,12)	1:48:A:LYS:N	1:48:A:LYS:CA	1:48:A:LYS:C	1:49:A:THR:N	8	1.49	0.31	1.48
(1,90)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB2	7	3.31	0.29	3.41
(1,50)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:TYR:N	7	1.97	0.62	1.91
(1,52)	1:82:A:TYR:N	1:82:A:TYR:CA	1:82:A:TYR:C	1:83:A:ALA:N	7	1.82	0.26	1.86
(1,46)	1:75:A:THR:N	1:75:A:THR:CA	1:75:A:THR:C	1:76:A:LYS:N	5	1.6	0.18	1.54
(1,44)	1:73:A:CYS:N	1:73:A:CYS:CA	1:73:A:CYS:C	1:74:A:HIS:N	5	1.57	0.25	1.53
(1,77)	1:95:A:PHE:C	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	5	1.51	0.46	1.42
(1,2)	1:41:A:GLU:N	1:41:A:GLU:CA	1:41:A:GLU:C	1:42:A:THR:N	4	1.36	0.32	1.29
(1,54)	1:83:A:ALA:N	1:83:A:ALA:CA	1:83:A:ALA:C	1:84:A:ALA:N	4	1.35	0.22	1.24
(1,79)	1:96:A:GLN:C	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	3	1.63	0.41	1.78
(1,22)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:ARG:N	3	1.27	0.15	1.23
(1,126)	1:99:A:PHE:N	1:99:A:PHE:CA	1:99:A:PHE:CB	1:99:A:PHE:HB3	3	1.21	0.05	1.18
(1,113)	1:88:A:GLU:N	1:88:A:GLU:CA	1:88:A:GLU:CB	1:88:A:GLU:HB3	3	1.18	0.12	1.14
(1,114)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:CB	1:89:A:PHE:HB2	2	1.13	0.0	1.13
(1,27)	1:61:A:LEU:C	1:62:A:ILE:N	1:62:A:ILE:CA	1:62:A:ILE:C	2	1.04	0.05	1.04

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 (°)
(1,48)	1:78:A:SER:N	1:78:A:SER:CA	1:78:A:SER:C	1:79:A:LEU:N	3	4.9
(1,81)	1:97:A:GLN:C	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	10	4.67
(1,81)	1:97:A:GLN:C	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	6	4.62
(1,24)	1:58:A:ALA:N	1:58:A:ALA:CA	1:58:A:ALA:C	1:59:A:ASP:N	10	4.56
(1,24)	1:58:A:ALA:N	1:58:A:ALA:CA	1:58:A:ALA:C	1:59:A:ASP:N	5	4.49
(1,48)	1:78:A:SER:N	1:78:A:SER:CA	1:78:A:SER:C	1:79:A:LEU:N	2	4.23
(1,24)	1:58:A:ALA:N	1:58:A:ALA:CA	1:58:A:ALA:C	1:59:A:ASP:N	2	4.21
(1,24)	1:58:A:ALA:N	1:58:A:ALA:CA	1:58:A:ALA:C	1:59:A:ASP:N	4	4.19
(1,87)	1:46:A:CYS:N	1:46:A:CYS:CA	1:46:A:CYS:CB	1:46:A:CYS:HB2	4	4.15
(1,48)	1:78:A:SER:N	1:78:A:SER:CA	1:78:A:SER:C	1:79:A:LEU:N	4	4.11
(1,87)	1:46:A:CYS:N	1:46:A:CYS:CA	1:46:A:CYS:CB	1:46:A:CYS:HB2	6	4.09
(1,87)	1:46:A:CYS:N	1:46:A:CYS:CA	1:46:A:CYS:CB	1:46:A:CYS:HB2	3	4.07
(1,87)	1:46:A:CYS:N	1:46:A:CYS:CA	1:46:A:CYS:CB	1:46:A:CYS:HB2	5	4.07
(1,48)	1:78:A:SER:N	1:78:A:SER:CA	1:78:A:SER:C	1:79:A:LEU:N	7	4.06
(1,69)	1:91:A:CYS:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	2	4.05
(1,33)	1:65:A:ASN:C	1:66:A:SER:N	1:66:A:SER:CA	1:66:A:SER:C	7	4.04
(1,84)	1:99:A:PHE:N	1:99:A:PHE:CA	1:99:A:PHE:C	1:100:A:LYS:N	10	4.02
(1,87)	1:46:A:CYS:N	1:46:A:CYS:CA	1:46:A:CYS:CB	1:46:A:CYS:HB2	2	4.01
(1,87)	1:46:A:CYS:N	1:46:A:CYS:CA	1:46:A:CYS:CB	1:46:A:CYS:HB2	9	4.0
(1,87)	1:46:A:CYS:N	1:46:A:CYS:CA	1:46:A:CYS:CB	1:46:A:CYS:HB2	7	3.99
(1,87)	1:46:A:CYS:N	1:46:A:CYS:CA	1:46:A:CYS:CB	1:46:A:CYS:HB2	10	3.98

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,24)	1:58:A:ALA:N	1:58:A:ALA:CA	1:58:A:ALA:C	1:59:A:ASP:N	1	3.97
(1,24)	1:58:A:ALA:N	1:58:A:ALA:CA	1:58:A:ALA:C	1:59:A:ASP:N	6	3.97
(1,87)	1:46:A:CYS:N	1:46:A:CYS:CA	1:46:A:CYS:CB	1:46:A:CYS:HB2	8	3.95
(1,87)	1:46:A:CYS:N	1:46:A:CYS:CA	1:46:A:CYS:CB	1:46:A:CYS:HB2	1	3.92
(1,48)	1:78:A:SER:N	1:78:A:SER:CA	1:78:A:SER:C	1:79:A:LEU:N	9	3.91
(1,24)	1:58:A:ALA:N	1:58:A:ALA:CA	1:58:A:ALA:C	1:59:A:ASP:N	9	3.91
(1,91)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB3	7	3.89
(1,80)	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	1:98:A:LEU:N	6	3.87
(1,48)	1:78:A:SER:N	1:78:A:SER:CA	1:78:A:SER:C	1:79:A:LEU:N	6	3.79
(1,81)	1:97:A:GLN:C	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	9	3.77
(1,91)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB3	9	3.74
(1,48)	1:78:A:SER:N	1:78:A:SER:CA	1:78:A:SER:C	1:79:A:LEU:N	10	3.74
(1,90)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB2	1	3.73
(1,80)	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	1:98:A:LEU:N	2	3.69
(1,80)	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	1:98:A:LEU:N	5	3.67
(1,81)	1:97:A:GLN:C	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	5	3.62
(1,81)	1:97:A:GLN:C	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	7	3.62
(1,91)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB3	1	3.59
(1,107)	1:77:A:LEU:N	1:77:A:LEU:CA	1:77:A:LEU:CB	1:77:A:LEU:HB3	7	3.56
(1,90)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB2	9	3.55
(1,91)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB3	4	3.54
(1,90)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB2	10	3.48
(1,24)	1:58:A:ALA:N	1:58:A:ALA:CA	1:58:A:ALA:C	1:59:A:ASP:N	8	3.46
(1,80)	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	1:98:A:LEU:N	10	3.43
(1,90)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB2	4	3.41
(1,48)	1:78:A:SER:N	1:78:A:SER:CA	1:78:A:SER:C	1:79:A:LEU:N	5	3.36
(1,91)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB3	10	3.34
(1,81)	1:97:A:GLN:C	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	2	3.29
(1,50)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:TYR:N	1	3.27
(1,81)	1:97:A:GLN:C	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	3	3.26
(1,107)	1:77:A:LEU:N	1:77:A:LEU:CA	1:77:A:LEU:CB	1:77:A:LEU:HB3	1	3.25
(1,90)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB2	7	3.2
(1,33)	1:65:A:ASN:C	1:66:A:SER:N	1:66:A:SER:CA	1:66:A:SER:C	5	3.17
(1,80)	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	1:98:A:LEU:N	3	3.15
(1,116)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB2	6	3.07
(1,82)	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	1:99:A:PHE:N	7	3.04
(1,107)	1:77:A:LEU:N	1:77:A:LEU:CA	1:77:A:LEU:CB	1:77:A:LEU:HB3	10	3.01
(1,69)	1:91:A:CYS:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	9	2.99
(1,90)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB2	5	2.96
(1,33)	1:65:A:ASN:C	1:66:A:SER:N	1:66:A:SER:CA	1:66:A:SER:C	1	2.91
(1,116)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB2	8	2.87
(1,90)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB2	8	2.87
(1,107)	1:77:A:LEU:N	1:77:A:LEU:CA	1:77:A:LEU:CB	1:77:A:LEU:HB3	8	2.83
(1,107)	1:77:A:LEU:N	1:77:A:LEU:CA	1:77:A:LEU:CB	1:77:A:LEU:HB3	9	2.82
(1,33)	1:65:A:ASN:C	1:66:A:SER:N	1:66:A:SER:CA	1:66:A:SER:C	3	2.79
(1,82)	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	1:99:A:PHE:N	5	2.77
(1,81)	1:97:A:GLN:C	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	1	2.76
(1,80)	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	1:98:A:LEU:N	7	2.76
(1,116)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB2	3	2.75
(1,107)	1:77:A:LEU:N	1:77:A:LEU:CA	1:77:A:LEU:CB	1:77:A:LEU:HB3	4	2.75
(1,107)	1:77:A:LEU:N	1:77:A:LEU:CA	1:77:A:LEU:CB	1:77:A:LEU:HB3	2	2.74

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,81)	1:97:A:GLN:C	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	4	2.73
(1,82)	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	1:99:A:PHE:N	4	2.72
(1,33)	1:65:A:ASN:C	1:66:A:SER:N	1:66:A:SER:CA	1:66:A:SER:C	9	2.72
(1,107)	1:77:A:LEU:N	1:77:A:LEU:CA	1:77:A:LEU:CB	1:77:A:LEU:HB3	6	2.69
(1,95)	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:CB	1:63:A:PHE:HB3	6	2.68
(1,95)	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:CB	1:63:A:PHE:HB3	10	2.68
(1,116)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB2	4	2.67
(1,48)	1:78:A:SER:N	1:78:A:SER:CA	1:78:A:SER:C	1:79:A:LEU:N	8	2.61
(1,24)	1:58:A:ALA:N	1:58:A:ALA:CA	1:58:A:ALA:C	1:59:A:ASP:N	7	2.61
(1,116)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB2	7	2.6
(1,91)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB3	2	2.6
(1,48)	1:78:A:SER:N	1:78:A:SER:CA	1:78:A:SER:C	1:79:A:LEU:N	1	2.6
(1,29)	1:62:A:ILE:C	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:C	10	2.59
(1,82)	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	1:99:A:PHE:N	3	2.58
(1,33)	1:65:A:ASN:C	1:66:A:SER:N	1:66:A:SER:CA	1:66:A:SER:C	10	2.57
(1,95)	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:CB	1:63:A:PHE:HB3	1	2.55
(1,60)	1:86:A:HIS:N	1:86:A:HIS:CA	1:86:A:HIS:C	1:87:A:GLY:N	4	2.52
(1,116)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB2	5	2.51
(1,91)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB3	3	2.49
(1,82)	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	1:99:A:PHE:N	9	2.47
(1,116)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB2	10	2.45
(1,107)	1:77:A:LEU:N	1:77:A:LEU:CA	1:77:A:LEU:CB	1:77:A:LEU:HB3	5	2.45
(1,95)	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:CB	1:63:A:PHE:HB3	4	2.44
(1,80)	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	1:98:A:LEU:N	1	2.44
(1,33)	1:65:A:ASN:C	1:66:A:SER:N	1:66:A:SER:CA	1:66:A:SER:C	2	2.44
(1,116)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB2	9	2.42
(1,95)	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:CB	1:63:A:PHE:HB3	5	2.42
(1,100)	1:68:A:PHE:N	1:68:A:PHE:CA	1:68:A:PHE:CB	1:68:A:PHE:HB2	6	2.4
(1,77)	1:95:A:PHE:C	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	2	2.39
(1,33)	1:65:A:ASN:C	1:66:A:SER:N	1:66:A:SER:CA	1:66:A:SER:C	4	2.39
(1,95)	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:CB	1:63:A:PHE:HB3	3	2.36
(1,95)	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:CB	1:63:A:PHE:HB3	9	2.35
(1,69)	1:91:A:CYS:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	1	2.34
(1,69)	1:91:A:CYS:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	6	2.34
(1,107)	1:77:A:LEU:N	1:77:A:LEU:CA	1:77:A:LEU:CB	1:77:A:LEU:HB3	3	2.33
(1,116)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB2	2	2.31
(1,95)	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:CB	1:63:A:PHE:HB3	7	2.31
(1,52)	1:82:A:TYR:N	1:82:A:TYR:CA	1:82:A:TYR:C	1:83:A:ALA:N	1	2.31
(1,100)	1:68:A:PHE:N	1:68:A:PHE:CA	1:68:A:PHE:CB	1:68:A:PHE:HB2	4	2.28
(1,33)	1:65:A:ASN:C	1:66:A:SER:N	1:66:A:SER:CA	1:66:A:SER:C	6	2.26
(1,60)	1:86:A:HIS:N	1:86:A:HIS:CA	1:86:A:HIS:C	1:87:A:GLY:N	10	2.24
(1,50)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:TYR:N	9	2.22
(1,80)	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	1:98:A:LEU:N	9	2.21
(1,24)	1:58:A:ALA:N	1:58:A:ALA:CA	1:58:A:ALA:C	1:59:A:ASP:N	3	2.19
(1,100)	1:68:A:PHE:N	1:68:A:PHE:CA	1:68:A:PHE:CB	1:68:A:PHE:HB2	9	2.18
(1,91)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB3	6	2.18
(1,69)	1:91:A:CYS:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	5	2.16
(1,29)	1:62:A:ILE:C	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:C	6	2.16
(1,95)	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:CB	1:63:A:PHE:HB3	8	2.15
(1,60)	1:86:A:HIS:N	1:86:A:HIS:CA	1:86:A:HIS:C	1:87:A:GLY:N	3	2.15
(1,117)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB3	6	2.12

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,116)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB2	1	2.12
(1,100)	1:68:A:PHE:N	1:68:A:PHE:CA	1:68:A:PHE:CB	1:68:A:PHE:HB2	2	2.11
(1,100)	1:68:A:PHE:N	1:68:A:PHE:CA	1:68:A:PHE:CB	1:68:A:PHE:HB2	3	2.1
(1,95)	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:CB	1:63:A:PHE:HB3	2	2.09
(1,33)	1:65:A:ASN:C	1:66:A:SER:N	1:66:A:SER:CA	1:66:A:SER:C	8	2.09
(1,29)	1:62:A:ILE:C	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:C	1	2.07
(1,82)	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	1:99:A:PHE:N	10	2.05
(1,17)	1:51:A:TYR:C	1:52:A:PRO:N	1:52:A:PRO:CA	1:52:A:PRO:C	6	2.05
(1,12)	1:48:A:LYS:N	1:48:A:LYS:CA	1:48:A:LYS:C	1:49:A:THR:N	5	2.05
(1,79)	1:96:A:GLN:C	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	5	2.04
(1,100)	1:68:A:PHE:N	1:68:A:PHE:CA	1:68:A:PHE:CB	1:68:A:PHE:HB2	5	2.03
(1,29)	1:62:A:ILE:C	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:C	5	2.03
(1,44)	1:73:A:CYS:N	1:73:A:CYS:CA	1:73:A:CYS:C	1:74:A:HIS:N	9	2.01
(1,29)	1:62:A:ILE:C	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:C	4	2.0
(1,51)	1:81:A:SER:C	1:82:A:TYR:N	1:82:A:TYR:CA	1:82:A:TYR:C	1	1.97
(1,50)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:TYR:N	10	1.95
(1,17)	1:51:A:TYR:C	1:52:A:PRO:N	1:52:A:PRO:CA	1:52:A:PRO:C	10	1.95
(1,52)	1:82:A:TYR:N	1:82:A:TYR:CA	1:82:A:TYR:C	1:83:A:ALA:N	6	1.94
(1,29)	1:62:A:ILE:C	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:C	9	1.94
(1,117)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB3	3	1.92
(1,50)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:TYR:N	2	1.91
(1,100)	1:68:A:PHE:N	1:68:A:PHE:CA	1:68:A:PHE:CB	1:68:A:PHE:HB2	10	1.9
(1,69)	1:91:A:CYS:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	7	1.9
(1,46)	1:75:A:THR:N	1:75:A:THR:CA	1:75:A:THR:C	1:76:A:LYS:N	6	1.9
(1,52)	1:82:A:TYR:N	1:82:A:TYR:CA	1:82:A:TYR:C	1:83:A:ALA:N	8	1.89
(1,60)	1:86:A:HIS:N	1:86:A:HIS:CA	1:86:A:HIS:C	1:87:A:GLY:N	2	1.87
(1,100)	1:68:A:PHE:N	1:68:A:PHE:CA	1:68:A:PHE:CB	1:68:A:PHE:HB2	7	1.86
(1,52)	1:82:A:TYR:N	1:82:A:TYR:CA	1:82:A:TYR:C	1:83:A:ALA:N	2	1.86
(1,117)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB3	5	1.83
(1,117)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB3	2	1.82
(1,17)	1:51:A:TYR:C	1:52:A:PRO:N	1:52:A:PRO:CA	1:52:A:PRO:C	1	1.82
(1,2)	1:41:A:GLU:N	1:41:A:GLU:CA	1:41:A:GLU:C	1:42:A:THR:N	2	1.82
(1,80)	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	1:98:A:LEU:N	4	1.81
(1,117)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB3	8	1.8
(1,100)	1:68:A:PHE:N	1:68:A:PHE:CA	1:68:A:PHE:CB	1:68:A:PHE:HB2	1	1.8
(1,82)	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	1:99:A:PHE:N	8	1.8
(1,117)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB3	7	1.79
(1,12)	1:48:A:LYS:N	1:48:A:LYS:CA	1:48:A:LYS:C	1:49:A:THR:N	4	1.79
(1,79)	1:96:A:GLN:C	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	8	1.78
(1,91)	1:59:A:ASP:N	1:59:A:ASP:CA	1:59:A:ASP:CB	1:59:A:ASP:HB3	5	1.77
(1,125)	1:99:A:PHE:N	1:99:A:PHE:CA	1:99:A:PHE:CB	1:99:A:PHE:HB2	7	1.76
(1,117)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB3	10	1.76
(1,82)	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	1:99:A:PHE:N	6	1.76
(1,29)	1:62:A:ILE:C	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:C	3	1.76
(1,100)	1:68:A:PHE:N	1:68:A:PHE:CA	1:68:A:PHE:CB	1:68:A:PHE:HB2	8	1.75
(1,49)	1:80:A:GLY:C	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	7	1.75
(1,54)	1:83:A:ALA:N	1:83:A:ALA:CA	1:83:A:ALA:C	1:84:A:ALA:N	4	1.72
(1,17)	1:51:A:TYR:C	1:52:A:PRO:N	1:52:A:PRO:CA	1:52:A:PRO:C	7	1.72
(1,117)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB3	4	1.71
(1,17)	1:51:A:TYR:C	1:52:A:PRO:N	1:52:A:PRO:CA	1:52:A:PRO:C	8	1.71
(1,50)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:TYR:N	6	1.69

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,52)	1:82:A:TYR:N	1:82:A:TYR:CA	1:82:A:TYR:C	1:83:A:ALA:N	4	1.68
(1,50)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:TYR:N	8	1.68
(1,46)	1:75:A:THR:N	1:75:A:THR:CA	1:75:A:THR:C	1:76:A:LYS:N	9	1.68
(1,125)	1:99:A:PHE:N	1:99:A:PHE:CA	1:99:A:PHE:CB	1:99:A:PHE:HB2	3	1.65
(1,44)	1:73:A:CYS:N	1:73:A:CYS:CA	1:73:A:CYS:C	1:74:A:HIS:N	8	1.64
(1,12)	1:48:A:LYS:N	1:48:A:LYS:CA	1:48:A:LYS:C	1:49:A:THR:N	2	1.64
(1,69)	1:91:A:CYS:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	4	1.63
(1,117)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB3	9	1.62
(1,60)	1:86:A:HIS:N	1:86:A:HIS:CA	1:86:A:HIS:C	1:87:A:GLY:N	6	1.59
(1,60)	1:86:A:HIS:N	1:86:A:HIS:CA	1:86:A:HIS:C	1:87:A:GLY:N	8	1.59
(1,81)	1:97:A:GLN:C	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	8	1.58
(1,60)	1:86:A:HIS:N	1:86:A:HIS:CA	1:86:A:HIS:C	1:87:A:GLY:N	1	1.58
(1,52)	1:82:A:TYR:N	1:82:A:TYR:CA	1:82:A:TYR:C	1:83:A:ALA:N	3	1.58
(1,117)	1:90:A:TYR:N	1:90:A:TYR:CA	1:90:A:TYR:CB	1:90:A:TYR:HB3	1	1.54
(1,46)	1:75:A:THR:N	1:75:A:THR:CA	1:75:A:THR:C	1:76:A:LYS:N	8	1.54
(1,17)	1:51:A:TYR:C	1:52:A:PRO:N	1:52:A:PRO:CA	1:52:A:PRO:C	3	1.54
(1,44)	1:73:A:CYS:N	1:73:A:CYS:CA	1:73:A:CYS:C	1:74:A:HIS:N	2	1.53
(1,46)	1:75:A:THR:N	1:75:A:THR:CA	1:75:A:THR:C	1:76:A:LYS:N	5	1.51
(1,12)	1:48:A:LYS:N	1:48:A:LYS:CA	1:48:A:LYS:C	1:49:A:THR:N	9	1.51
(1,69)	1:91:A:CYS:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	3	1.5
(1,125)	1:99:A:PHE:N	1:99:A:PHE:CA	1:99:A:PHE:CB	1:99:A:PHE:HB2	5	1.48
(1,125)	1:99:A:PHE:N	1:99:A:PHE:CA	1:99:A:PHE:CB	1:99:A:PHE:HB2	9	1.48
(1,80)	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	1:98:A:LEU:N	8	1.48
(1,52)	1:82:A:TYR:N	1:82:A:TYR:CA	1:82:A:TYR:C	1:83:A:ALA:N	10	1.47
(1,2)	1:41:A:GLU:N	1:41:A:GLU:CA	1:41:A:GLU:C	1:42:A:THR:N	10	1.47
(1,125)	1:99:A:PHE:N	1:99:A:PHE:CA	1:99:A:PHE:CB	1:99:A:PHE:HB2	1	1.46
(1,22)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:ARG:N	4	1.46
(1,34)	1:66:A:SER:N	1:66:A:SER:CA	1:66:A:SER:C	1:67:A:CYS:N	10	1.44
(1,12)	1:48:A:LYS:N	1:48:A:LYS:CA	1:48:A:LYS:C	1:49:A:THR:N	6	1.44
(1,77)	1:95:A:PHE:C	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	5	1.43
(1,17)	1:51:A:TYR:C	1:52:A:PRO:N	1:52:A:PRO:CA	1:52:A:PRO:C	4	1.43
(1,77)	1:95:A:PHE:C	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	1	1.42
(1,44)	1:73:A:CYS:N	1:73:A:CYS:CA	1:73:A:CYS:C	1:74:A:HIS:N	6	1.41
(1,125)	1:99:A:PHE:N	1:99:A:PHE:CA	1:99:A:PHE:CB	1:99:A:PHE:HB2	4	1.39
(1,17)	1:51:A:TYR:C	1:52:A:PRO:N	1:52:A:PRO:CA	1:52:A:PRO:C	5	1.39
(1,125)	1:99:A:PHE:N	1:99:A:PHE:CA	1:99:A:PHE:CB	1:99:A:PHE:HB2	2	1.37
(1,60)	1:86:A:HIS:N	1:86:A:HIS:CA	1:86:A:HIS:C	1:87:A:GLY:N	5	1.37
(1,46)	1:75:A:THR:N	1:75:A:THR:CA	1:75:A:THR:C	1:76:A:LYS:N	2	1.36
(1,29)	1:62:A:ILE:C	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:C	7	1.36
(1,113)	1:88:A:GLU:N	1:88:A:GLU:CA	1:88:A:GLU:CB	1:88:A:GLU:HB3	6	1.35
(1,69)	1:91:A:CYS:C	1:92:A:LYS:N	1:92:A:LYS:CA	1:92:A:LYS:C	8	1.35
(1,125)	1:99:A:PHE:N	1:99:A:PHE:CA	1:99:A:PHE:CB	1:99:A:PHE:HB2	6	1.33
(1,125)	1:99:A:PHE:N	1:99:A:PHE:CA	1:99:A:PHE:CB	1:99:A:PHE:HB2	8	1.33
(1,82)	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	1:99:A:PHE:N	1	1.31
(1,126)	1:99:A:PHE:N	1:99:A:PHE:CA	1:99:A:PHE:CB	1:99:A:PHE:HB3	7	1.29
(1,54)	1:83:A:ALA:N	1:83:A:ALA:CA	1:83:A:ALA:C	1:84:A:ALA:N	7	1.28
(1,44)	1:73:A:CYS:N	1:73:A:CYS:CA	1:73:A:CYS:C	1:74:A:HIS:N	4	1.28
(1,12)	1:48:A:LYS:N	1:48:A:LYS:CA	1:48:A:LYS:C	1:49:A:THR:N	7	1.28
(1,29)	1:62:A:ILE:C	1:63:A:PHE:N	1:63:A:PHE:CA	1:63:A:PHE:C	2	1.24
(1,22)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:ARG:N	9	1.23
(1,78)	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	1:97:A:GLN:N	4	1.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,61)	1:87:A:GLY:C	1:88:A:GLU:N	1:88:A:GLU:CA	1:88:A:GLU:C	9	1.2
(1,54)	1:83:A:ALA:N	1:83:A:ALA:CA	1:83:A:ALA:C	1:84:A:ALA:N	8	1.2
(1,12)	1:48:A:LYS:N	1:48:A:LYS:CA	1:48:A:LYS:C	1:49:A:THR:N	3	1.2
(1,77)	1:95:A:PHE:C	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	3	1.19
(1,74)	1:94:A:HIS:N	1:94:A:HIS:CA	1:94:A:HIS:C	1:95:A:PHE:N	10	1.19
(1,54)	1:83:A:ALA:N	1:83:A:ALA:CA	1:83:A:ALA:C	1:84:A:ALA:N	6	1.19
(1,126)	1:99:A:PHE:N	1:99:A:PHE:CA	1:99:A:PHE:CB	1:99:A:PHE:HB3	3	1.18
(1,56)	1:84:A:ALA:N	1:84:A:ALA:CA	1:84:A:ALA:C	1:85:A:LEU:N	10	1.18
(1,126)	1:99:A:PHE:N	1:99:A:PHE:CA	1:99:A:PHE:CB	1:99:A:PHE:HB3	8	1.17
(1,60)	1:86:A:HIS:N	1:86:A:HIS:CA	1:86:A:HIS:C	1:87:A:GLY:N	7	1.15
(1,113)	1:88:A:GLU:N	1:88:A:GLU:CA	1:88:A:GLU:CB	1:88:A:GLU:HB3	2	1.14
(1,114)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:CB	1:89:A:PHE:HB2	4	1.13
(1,114)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:CB	1:89:A:PHE:HB2	10	1.13
(1,72)	1:93:A:PRO:N	1:93:A:PRO:CA	1:93:A:PRO:C	1:94:A:HIS:N	6	1.12
(1,63)	1:88:A:GLU:C	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:C	2	1.12
(1,17)	1:51:A:TYR:C	1:52:A:PRO:N	1:52:A:PRO:CA	1:52:A:PRO:C	2	1.12
(1,17)	1:51:A:TYR:C	1:52:A:PRO:N	1:52:A:PRO:CA	1:52:A:PRO:C	9	1.12
(1,22)	1:54:A:GLU:N	1:54:A:GLU:CA	1:54:A:GLU:C	1:55:A:ARG:N	10	1.11
(1,2)	1:41:A:GLU:N	1:41:A:GLU:CA	1:41:A:GLU:C	1:42:A:THR:N	5	1.11
(1,125)	1:99:A:PHE:N	1:99:A:PHE:CA	1:99:A:PHE:CB	1:99:A:PHE:HB2	10	1.1
(1,77)	1:95:A:PHE:C	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	8	1.1
(1,102)	1:71:A:LYS:N	1:71:A:LYS:CA	1:71:A:LYS:CB	1:71:A:LYS:HB2	3	1.09
(1,27)	1:61:A:LEU:C	1:62:A:ILE:N	1:62:A:ILE:CA	1:62:A:ILE:C	10	1.09
(1,79)	1:96:A:GLN:C	1:97:A:GLN:N	1:97:A:GLN:CA	1:97:A:GLN:C	6	1.08
(1,50)	1:81:A:SER:N	1:81:A:SER:CA	1:81:A:SER:C	1:82:A:TYR:N	3	1.07
(1,113)	1:88:A:GLU:N	1:88:A:GLU:CA	1:88:A:GLU:CB	1:88:A:GLU:HB3	9	1.06
(1,58)	1:85:A:LEU:N	1:85:A:LEU:CA	1:85:A:LEU:C	1:86:A:HIS:N	9	1.06
(1,1)	1:40:A:LYS:C	1:41:A:GLU:N	1:41:A:GLU:CA	1:41:A:GLU:C	8	1.06
(1,12)	1:48:A:LYS:N	1:48:A:LYS:CA	1:48:A:LYS:C	1:49:A:THR:N	1	1.04
(1,115)	1:89:A:PHE:N	1:89:A:PHE:CA	1:89:A:PHE:CB	1:89:A:PHE:HB3	4	1.02
(1,40)	1:69:A:CYS:N	1:69:A:CYS:CA	1:69:A:CYS:C	1:70:A:CYS:N	3	1.02
(1,2)	1:41:A:GLU:N	1:41:A:GLU:CA	1:41:A:GLU:C	1:42:A:THR:N	8	1.02
(1,82)	1:98:A:LEU:N	1:98:A:LEU:CA	1:98:A:LEU:C	1:99:A:PHE:N	2	1.01
(1,27)	1:61:A:LEU:C	1:62:A:ILE:N	1:62:A:ILE:CA	1:62:A:ILE:C	5	1.0