Full wwPDB NMR Structure Validation Report (i)

Feb 22, 2024 – 12:13 pm GMT

PDB ID	:	8OQB
BMRB ID	:	34803
Title	:	Solution structure of 6xHIS-tagged wild-type Gaussia luciferase
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Deposited on	:	2023-04-12

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/NMRValidationReportHelp
with specific help available everywhere you see the (i) 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 (i)) were used in the production of this report:

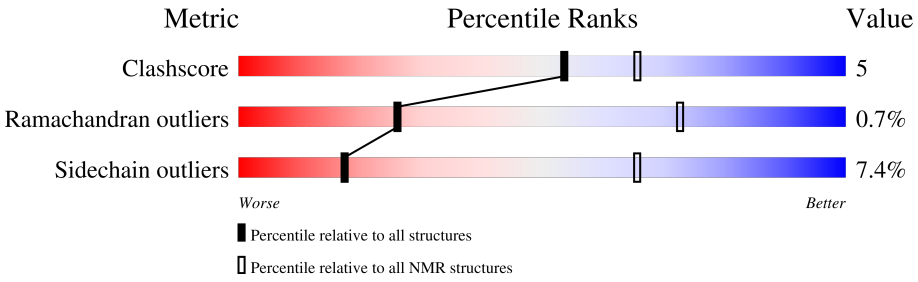
Cyrange	:	Kirchner and Güntert (2011)
NmrClust	:	Kelley et al. (1996)
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

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 96%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	175	39% 5% • 39% 17%

2 Ensemble composition and analysis

This entry contains 20 models. Model 12 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:45-A:76, A:102-A:147 (78)	1.54	12

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

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

The models can be grouped into 6 clusters. No single-model clusters were found.

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

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 2221 atoms, of which 1123 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Luciferase.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	146	2221	688	1123	192	205	13	0

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP Q9BLZ2
A	2	HIS	-	expression tag	UNP Q9BLZ2
A	3	HIS	-	expression tag	UNP Q9BLZ2
A	4	HIS	-	expression tag	UNP Q9BLZ2
A	5	HIS	-	expression tag	UNP Q9BLZ2
A	6	HIS	-	expression tag	UNP Q9BLZ2
A	7	HIS	-	expression tag	UNP Q9BLZ2

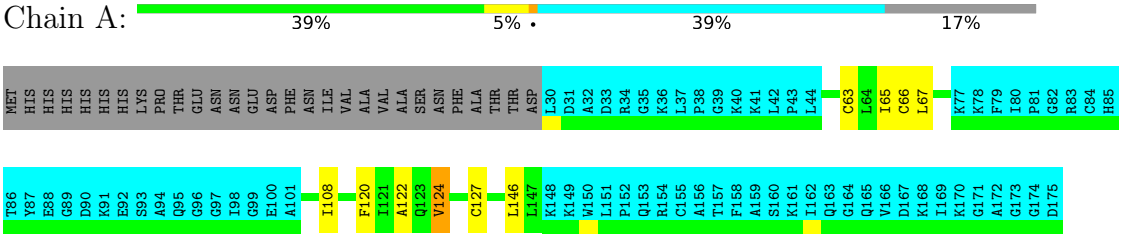
4 Residue-property plots

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: Luciferase

Chain A:



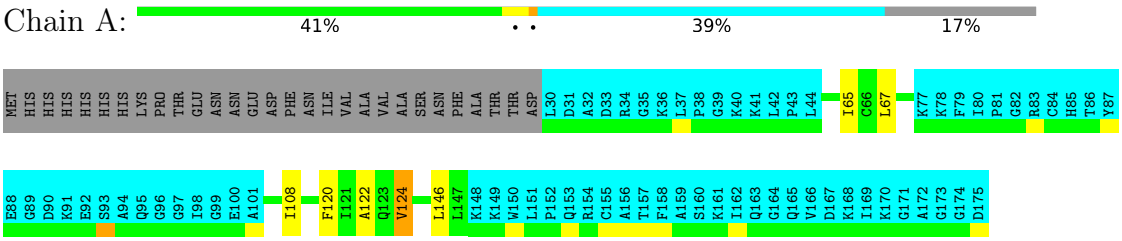
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

• Molecule 1: Luciferase

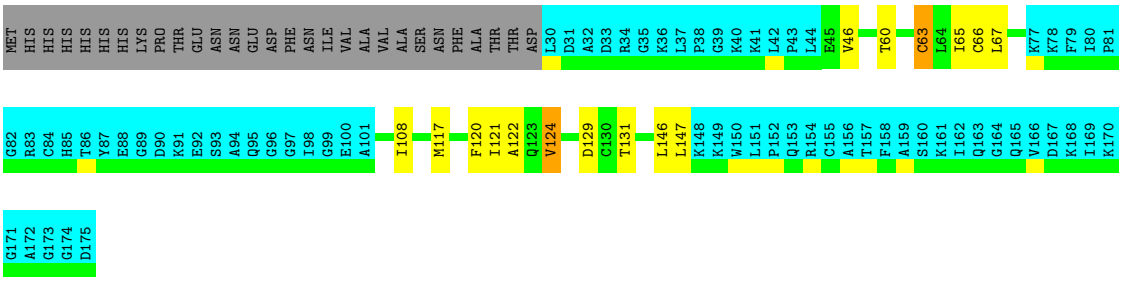
Chain A:



4.2.2 Score per residue for model 2

• Molecule 1: Luciferase

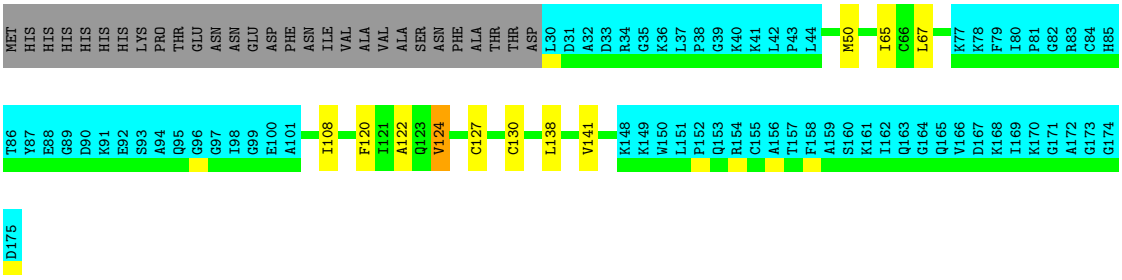
Chain A:



4.2.3 Score per residue for model 3

• Molecule 1: Luciferase

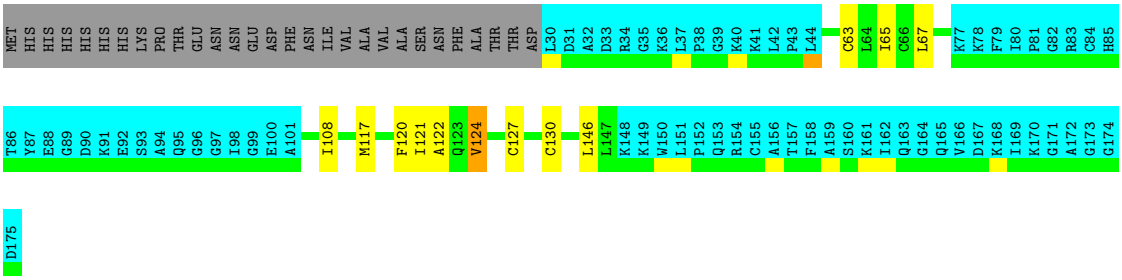
Chain A:



4.2.4 Score per residue for model 4

• Molecule 1: Luciferase

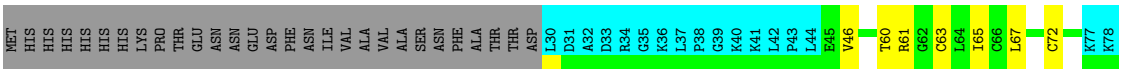
Chain A:

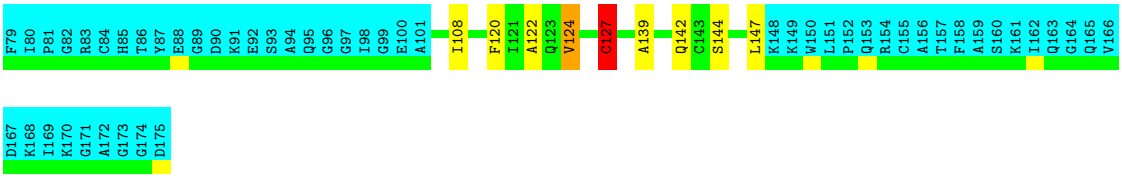


4.2.5 Score per residue for model 5

• Molecule 1: Luciferase

Chain A:

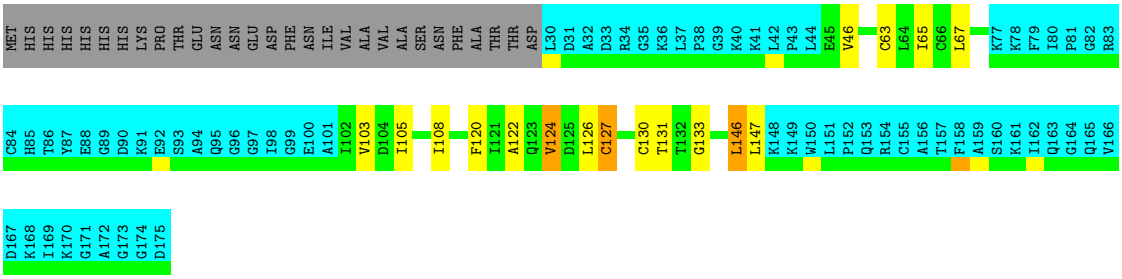




4.2.6 Score per residue for model 6

• Molecule 1: Luciferase

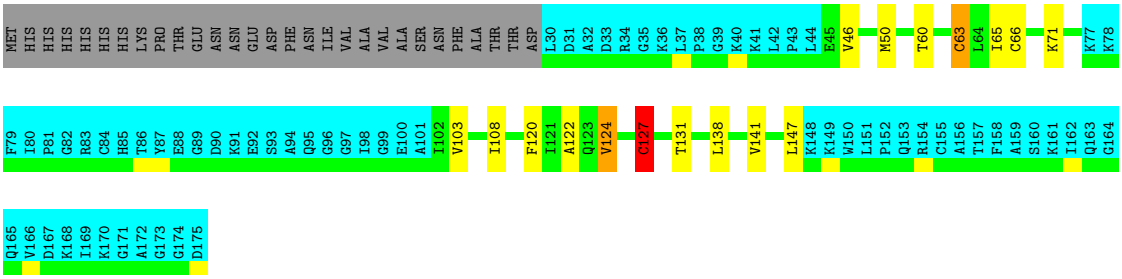
Chain A: 35% 8% • 39% 17%



4.2.7 Score per residue for model 7

• Molecule 1: Luciferase

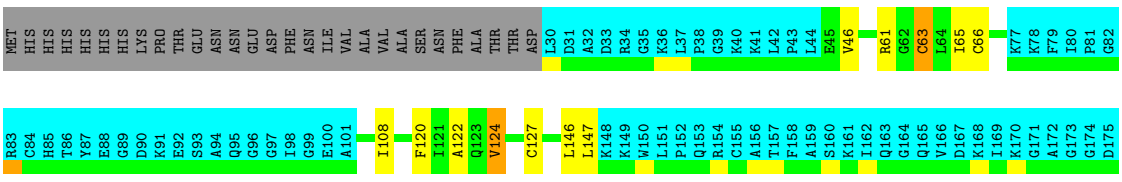
Chain A: 35% 8% •• 39% 17%



4.2.8 Score per residue for model 8

• Molecule 1: Luciferase

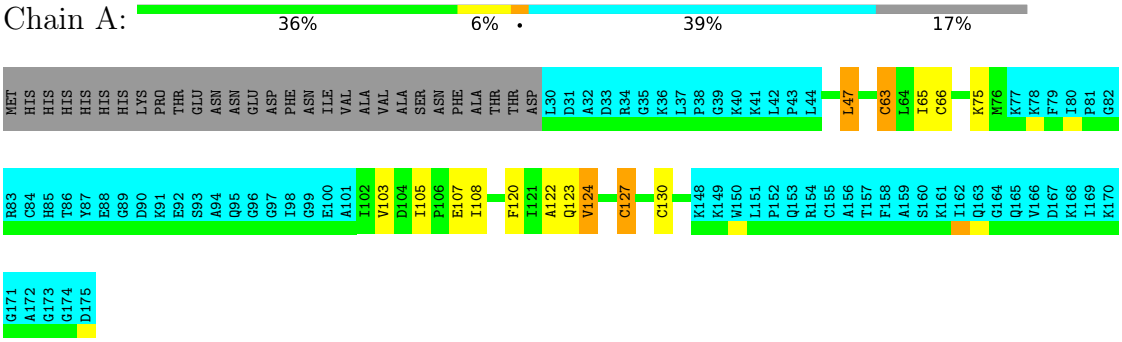
Chain A: 38% 6% • 39% 17%



4.2.9 Score per residue for model 9

• Molecule 1: Luciferase

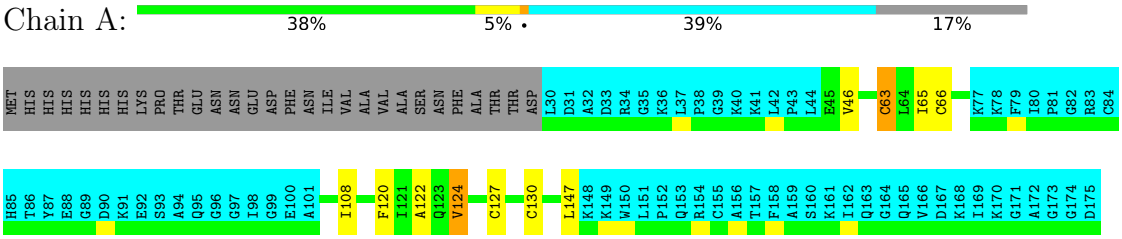
Chain A:



4.2.10 Score per residue for model 10

• Molecule 1: Luciferase

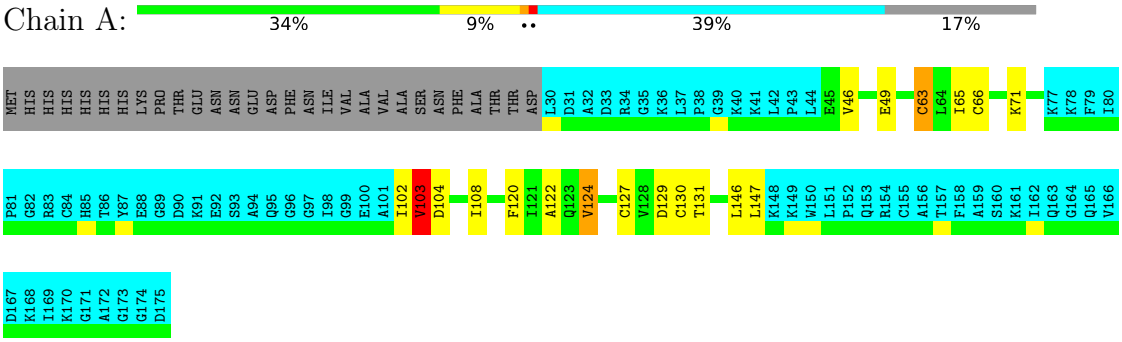
Chain A:



4.2.11 Score per residue for model 11

• Molecule 1: Luciferase

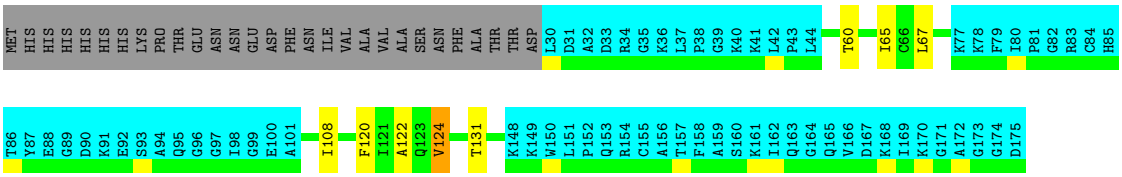
Chain A:



4.2.12 Score per residue for model 12 (medoid)

• Molecule 1: Luciferase

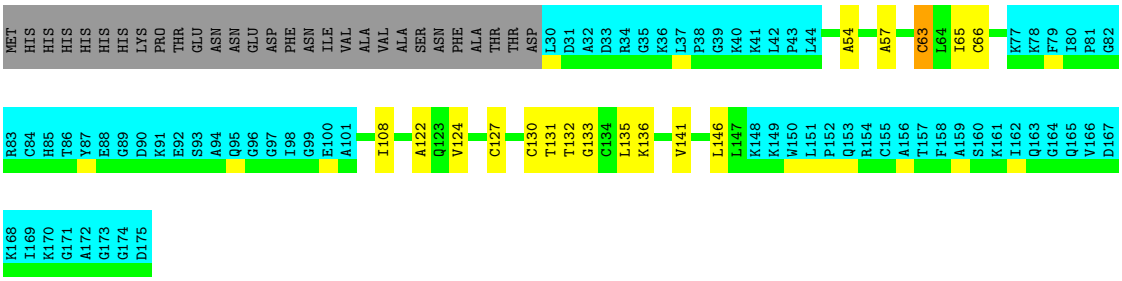
Chain A:



4.2.13 Score per residue for model 13

- Molecule 1: Luciferase

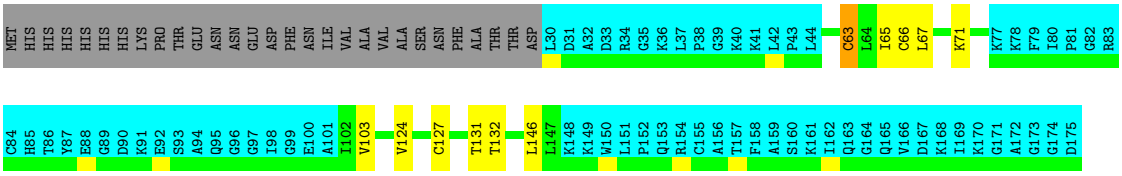
Chain A:



4.2.14 Score per residue for model 14

- Molecule 1: Luciferase

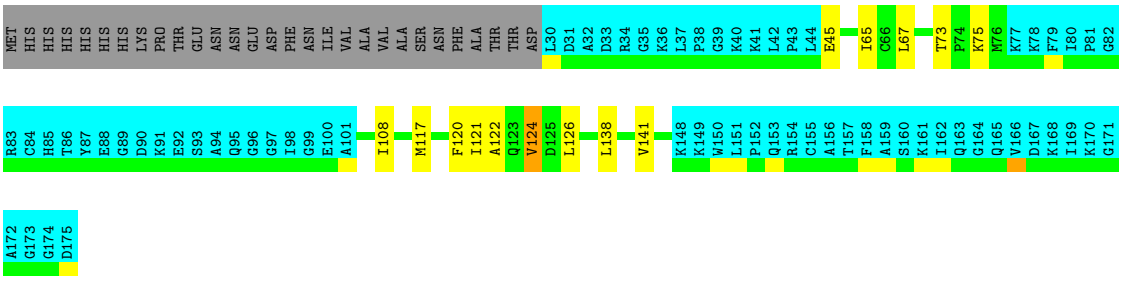
Chain A:



4.2.15 Score per residue for model 15

- Molecule 1: Luciferase

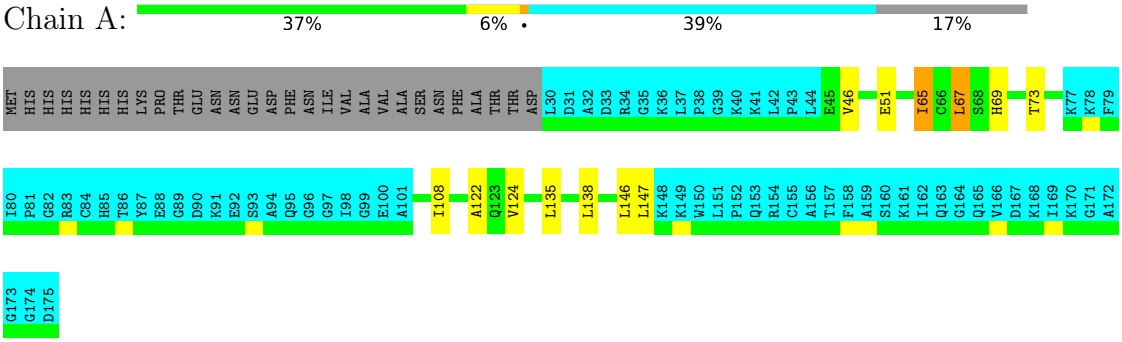
Chain A:



4.2.16 Score per residue for model 16

• Molecule 1: Luciferase

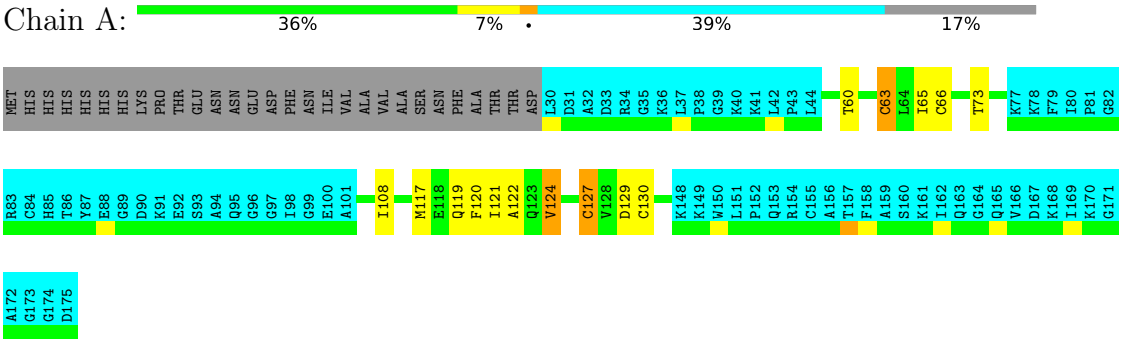
Chain A:



4.2.17 Score per residue for model 17

• Molecule 1: Luciferase

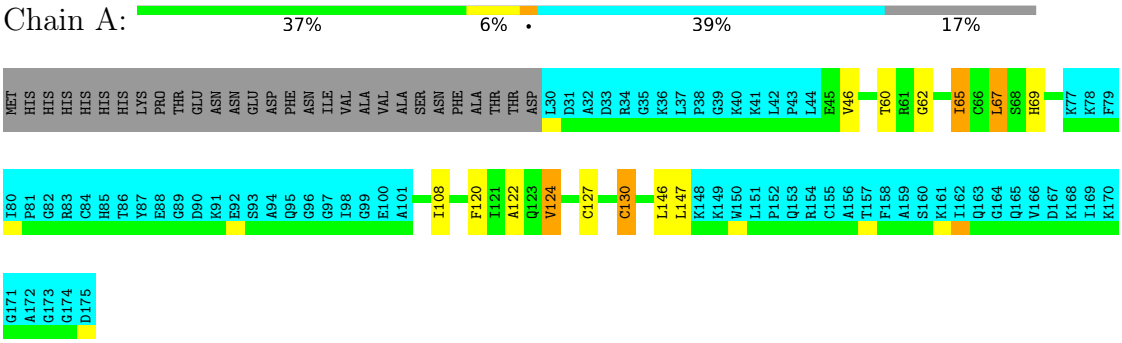
Chain A:



4.2.18 Score per residue for model 18

• Molecule 1: Luciferase

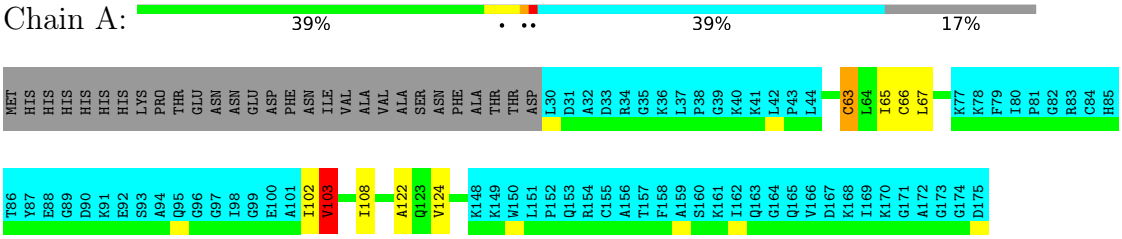
Chain A:



4.2.19 Score per residue for model 19

• Molecule 1: Luciferase

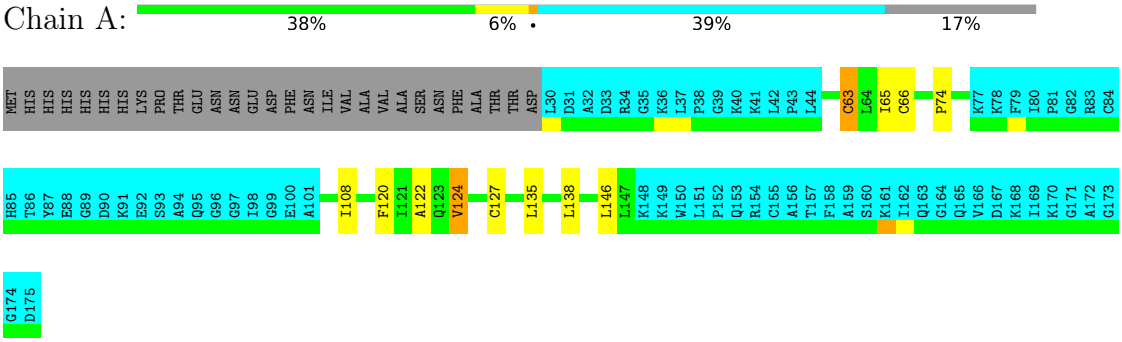
Chain A:



4.2.20 Score per residue for model 20

• Molecule 1: Luciferase

Chain A:



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy.*

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

Software name	Classification	Version
X-PLOR NIH	refinement	2.34
CYANA	refinement	3.98.13
X-PLOR NIH	structure calculation	2.34

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	2212
Number of shifts mapped to atoms	1846
Number of unparsed shifts	0
Number of shifts with mapping errors	366
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	96%

6 Model quality

6.1 Standard geometry

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts

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	585	596	596	6±2
All	All	11700	11920	11920	129

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 5.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:108:ILE:HD13	1:A:122:ALA:HB1	0.73	1.58	3	11
1:A:108:ILE:CD1	1:A:122:ALA:HB1	0.61	2.25	3	17
1:A:71:LYS:HE3	1:A:103:VAL:HG22	0.57	1.77	14	1
1:A:71:LYS:CE	1:A:103:VAL:HG22	0.56	2.31	14	1
1:A:120:PHE:O	1:A:124:VAL:HG12	0.55	2.02	15	16
1:A:127:CYS:SG	1:A:127:CYS:O	0.55	2.65	6	13
1:A:46:VAL:HG13	1:A:147:LEU:HD11	0.54	1.78	2	9
1:A:129:ASP:O	1:A:131:THR:HG23	0.53	2.03	11	2
1:A:139:ALA:HB1	1:A:142:GLN:CD	0.53	2.24	5	1
1:A:46:VAL:HG13	1:A:147:LEU:CD1	0.52	2.34	5	2
1:A:49:GLU:HG3	1:A:146:LEU:HD23	0.50	1.80	11	1
1:A:60:THR:HG21	1:A:129:ASP:O	0.50	2.06	2	2
1:A:54:ALA:O	1:A:57:ALA:HB3	0.48	2.08	13	1
1:A:50:MET:HB3	1:A:141:VAL:HG21	0.47	1.87	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:105:ILE:HG21	1:A:126:LEU:HD11	0.47	1.86	6	1
1:A:138:LEU:O	1:A:141:VAL:HG22	0.46	2.09	7	3
1:A:49:GLU:CG	1:A:146:LEU:HD23	0.46	2.41	11	1
1:A:63:CYS:O	1:A:66:CYS:SG	0.46	2.73	19	11
1:A:103:VAL:HG12	1:A:123:GLN:NE2	0.46	2.25	9	1
1:A:102:ILE:HG22	1:A:104:ASP:H	0.46	1.69	11	1
1:A:60:THR:HG21	1:A:131:THR:HG21	0.46	1.88	12	1
1:A:105:ILE:HG21	1:A:126:LEU:CD1	0.46	2.41	6	1
1:A:60:THR:HG23	1:A:63:CYS:H	0.46	1.69	2	1
1:A:117:MET:CE	1:A:121:ILE:HD11	0.45	2.41	15	1
1:A:65:ILE:HG22	1:A:69:HIS:CD2	0.44	2.47	16	2
1:A:117:MET:O	1:A:121:ILE:HD12	0.44	2.12	2	3
1:A:60:THR:HG21	1:A:131:THR:OG1	0.44	2.13	7	1
1:A:47:LEU:O	1:A:47:LEU:HD13	0.43	2.12	9	1
1:A:132:THR:HG22	1:A:136:LYS:NZ	0.43	2.28	13	1
1:A:73:THR:HG23	1:A:119:GLN:OE1	0.43	2.13	17	1
1:A:51:GLU:OE2	1:A:67:LEU:HD13	0.43	2.12	16	1
1:A:121:ILE:N	1:A:121:ILE:HD13	0.43	2.29	15	1
1:A:117:MET:SD	1:A:121:ILE:HD13	0.42	2.53	4	1
1:A:146:LEU:O	1:A:146:LEU:HD13	0.42	2.14	6	1
1:A:138:LEU:N	1:A:138:LEU:HD12	0.42	2.29	16	1
1:A:102:ILE:HG22	1:A:103:VAL:N	0.42	2.29	19	1
1:A:71:LYS:CB	1:A:103:VAL:HG21	0.42	2.45	11	1
1:A:131:THR:HG22	1:A:133:GLY:H	0.42	1.74	13	2
1:A:50:MET:SD	1:A:138:LEU:HD12	0.42	2.54	7	1
1:A:60:THR:HG22	1:A:61:ARG:N	0.41	2.29	5	1
1:A:135:LEU:N	1:A:135:LEU:HD12	0.41	2.30	13	3
1:A:105:ILE:HG22	1:A:107:GLU:OE1	0.41	2.16	9	1
1:A:60:THR:HG22	1:A:62:GLY:H	0.41	1.76	18	1
1:A:131:THR:HG22	1:A:132:THR:N	0.41	2.31	14	1
1:A:139:ALA:HB1	1:A:142:GLN:NE2	0.40	2.31	5	1
1:A:71:LYS:HE2	1:A:103:VAL:HG21	0.40	1.93	7	1
1:A:67:LEU:HD23	1:A:67:LEU:N	0.40	2.31	18	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	78/175 (45%)	74±2 (95±2%)	4±1 (5±2%)	1±1 (1±1%)	26 73
All	All	1560/3500 (45%)	1477 (95%)	72 (5%)	11 (1%)	26 73

All 7 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	127	CYS	3
1	A	75	LYS	2
1	A	103	VAL	2
1	A	144	SER	1
1	A	141	VAL	1
1	A	130	CYS	1
1	A	74	PRO	1

6.3.2 Protein sidechains (i)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	68/145 (47%)	63±1 (93±2%)	5±1 (7±2%)	17 65
All	All	1360/2900 (47%)	1259 (93%)	101 (7%)	17 65

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

Mol	Chain	Res	Type	Models (Total)
1	A	65	ILE	20
1	A	124	VAL	20
1	A	63	CYS	14
1	A	67	LEU	12
1	A	146	LEU	10
1	A	130	CYS	9
1	A	127	CYS	5
1	A	103	VAL	3
1	A	73	THR	2
1	A	72	CYS	1

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Mol	Chain	Res	Type	Models (Total)
1	A	61	ARG	1
1	A	47	LEU	1
1	A	45	GLU	1
1	A	126	LEU	1
1	A	138	LEU	1

6.3.3 RNA

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates

There are no monosaccharides in this entry.

6.6 Ligand geometry

There are no ligands in this entry.

6.7 Other polymers

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 96% for the well-defined parts and 95% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *starch_ output*

7.1.1 Bookkeeping

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

Total number of shifts	2212
Number of shifts mapped to atoms	1846
Number of unparsed shifts	0
Number of shifts with mapping errors	366
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	12

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

- No matching atom found in the structure. All 366 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	1	MET	N	123.098	0.010	.
1	A	1	MET	H	8.236	0.010	.
1	A	1	MET	CA	55.23	0.010	.
1	A	1	MET	HA	4.046	0.010	.
1	A	1	MET	CB	33.335	0.010	.
1	A	1	MET	HB2	2.081	0.010	.
1	A	1	MET	HB3	2.082	0.010	.
1	A	1	MET	CG	30.952	0.010	.
1	A	1	MET	HG2	2.471	0.010	.
1	A	1	MET	HG3	2.521	0.010	.
1	A	1	MET	HE1	0.874	0.010	.
1	A	1	MET	HE2	0.874	0.010	.
1	A	1	MET	HE3	0.874	0.010	.
1	A	1	MET	CE	16.945	0.010	.

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	1	MET	C	176.97	0.010	.
1	A	2	HIS	N	120.843	0.010	.
1	A	2	HIS	H	8.411	0.010	.
1	A	2	HIS	CA	57.282	0.010	.
1	A	2	HIS	HA	4.244	0.010	.
1	A	2	HIS	CB	29.899	0.010	.
1	A	2	HIS	HB2	1.979	0.010	.
1	A	2	HIS	HB3	2.074	0.010	.
1	A	2	HIS	ND1	121.847	0.010	.
1	A	2	HIS	CD2	119.62	0.010	.
1	A	2	HIS	HD1	7.584	0.010	.
1	A	2	HIS	CE1	132.132	0.010	.
1	A	2	HIS	HD2	7.288	0.010	.
1	A	2	HIS	HE1	7.568	0.010	.
1	A	2	HIS	C	176.991	0.010	.
1	A	3	HIS	N	115.931	0.010	.
1	A	3	HIS	H	8.168	0.010	.
1	A	3	HIS	CA	54.825	0.010	.
1	A	3	HIS	HA	4.883	0.010	.
1	A	3	HIS	CB	30.019	0.010	.
1	A	3	HIS	HB2	3.163	0.010	.
1	A	3	HIS	HB3	3.603	0.010	.
1	A	3	HIS	ND1	121.776	0.010	.
1	A	3	HIS	CD2	118.34	0.010	.
1	A	3	HIS	HD1	7.81	0.010	.
1	A	3	HIS	CE1	132.128	0.010	.
1	A	3	HIS	HD2	6.804	0.010	.
1	A	3	HIS	HE1	7.571	0.010	.
1	A	3	HIS	C	174.397	0.010	.
1	A	4	HIS	N	121.993	0.010	.
1	A	4	HIS	H	8.421	0.010	.
1	A	4	HIS	CA	57.153	0.010	.
1	A	4	HIS	HA	4.261	0.010	.
1	A	4	HIS	CB	30.186	0.010	.
1	A	4	HIS	HB2	1.974	0.010	.
1	A	4	HIS	HB3	3.079	0.010	.
1	A	4	HIS	ND1	121.882	0.010	.
1	A	4	HIS	CD2	119.798	0.010	.
1	A	4	HIS	HD1	7.81	0.010	.
1	A	4	HIS	CE1	132.098	0.010	.
1	A	4	HIS	HD2	7.039	0.010	.

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	4	HIS	HE1	7.573	0.010	.
1	A	4	HIS	C	174.153	0.010	.
1	A	5	HIS	N	123.13	0.010	.
1	A	5	HIS	H	8.435	0.010	.
1	A	5	HIS	CA	56.505	0.010	.
1	A	5	HIS	HA	4.285	0.010	.
1	A	5	HIS	CB	30.455	0.010	.
1	A	5	HIS	HB2	1.912	0.010	.
1	A	5	HIS	HB3	2.053	0.010	.
1	A	5	HIS	ND1	121.999	0.010	.
1	A	5	HIS	CD2	118.333	0.010	.
1	A	5	HIS	HD1	7.594	0.010	.
1	A	5	HIS	CE1	133.45	0.010	.
1	A	5	HIS	HD2	6.804	0.010	.
1	A	5	HIS	HE1	7.131	0.010	.
1	A	5	HIS	C	176.586	0.010	.
1	A	6	HIS	N	109.092	0.010	.
1	A	6	HIS	H	7.849	0.010	.
1	A	6	HIS	CA	62.424	0.010	.
1	A	6	HIS	HA	4.269	0.010	.
1	A	6	HIS	CB	30.343	0.010	.
1	A	6	HIS	HB2	1.917	0.010	.
1	A	6	HIS	HB3	2.066	0.010	.
1	A	6	HIS	ND1	120.422	0.010	.
1	A	6	HIS	CD2	118.339	0.010	.
1	A	6	HIS	HD1	8.179	0.010	.
1	A	6	HIS	CE1	132.126	0.010	.
1	A	6	HIS	HD2	6.803	0.010	.
1	A	6	HIS	HE1	7.567	0.010	.
1	A	6	HIS	C	175.746	0.010	.
1	A	7	HIS	N	123.287	0.010	.
1	A	7	HIS	H	8.174	0.010	.
1	A	7	HIS	CA	55.842	0.010	.
1	A	7	HIS	HA	4.604	0.010	.
1	A	7	HIS	CB	30.127	0.010	.
1	A	7	HIS	HB2	3.087	0.010	.
1	A	7	HIS	HB3	3.141	0.010	.
1	A	7	HIS	ND1	117.927	0.010	.
1	A	7	HIS	CD2	119.978	0.010	.
1	A	7	HIS	HD1	8.031	0.010	.
1	A	7	HIS	CE1	136.48	0.010	.

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	7	HIS	HD2	7.098	0.010	.
1	A	7	HIS	HE1	7.127	0.010	.
1	A	7	HIS	C	174.5	0.010	.
1	A	8	LYS	N	124.387	0.010	.
1	A	8	LYS	H	8.387	0.010	.
1	A	8	LYS	CA	54.399	0.010	.
1	A	8	LYS	HA	4.583	0.010	.
1	A	8	LYS	CB	32.699	0.010	.
1	A	8	LYS	HB2	1.684	0.010	.
1	A	8	LYS	HB3	1.688	0.010	.
1	A	8	LYS	CG	24.667	0.000	.
1	A	8	LYS	HG2	0.728	0.010	.
1	A	8	LYS	HG3	1.093	0.010	.
1	A	8	LYS	CD	29.205	0.010	.
1	A	8	LYS	HD2	1.447	0.010	.
1	A	8	LYS	HD3	1.681	0.010	.
1	A	8	LYS	CE	42.147	0.000	.
1	A	8	LYS	HE2	2.709	0.010	.
1	A	8	LYS	HE3	2.723	0.010	.
1	A	8	LYS	C	174.481	0.010	.
1	A	9	PRO	CA	63.551	0.000	.
1	A	9	PRO	HA	4.466	0.000	.
1	A	9	PRO	CB	32.033	0.000	.
1	A	9	PRO	HB2	1.957	0.000	.
1	A	9	PRO	HB3	2.32	0.000	.
1	A	9	PRO	CG	27.502	0.000	.
1	A	9	PRO	HG2	2.012	0.000	.
1	A	9	PRO	HG3	2.038	0.000	.
1	A	9	PRO	CD	50.766	0.000	.
1	A	9	PRO	HD2	3.664	0.000	.
1	A	9	PRO	HD3	3.778	0.000	.
1	A	9	PRO	C	177.087	0.010	.
1	A	10	THR	N	113.115	0.000	.
1	A	10	THR	H	8.044	0.000	.
1	A	10	THR	CA	61.971	0.000	.
1	A	10	THR	HA	4.292	0.000	.
1	A	10	THR	CB	69.707	0.000	.
1	A	10	THR	HB	4.25	0.000	.
1	A	10	THR	HG21	1.207	0.000	.
1	A	10	THR	HG22	1.207	0.000	.
1	A	10	THR	HG23	1.207	0.000	.

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	10	THR	HG1	4.676	0.000	.
1	A	10	THR	CG2	21.781	0.000	.
1	A	10	THR	C	174.657	0.010	.
1	A	11	GLU	N	122.655	0.000	.
1	A	11	GLU	H	8.297	0.000	.
1	A	11	GLU	CA	56.46	0.000	.
1	A	11	GLU	HA	4.312	0.000	.
1	A	11	GLU	CB	30.484	0.000	.
1	A	11	GLU	HB2	1.922	0.000	.
1	A	11	GLU	HB3	2.049	0.000	.
1	A	11	GLU	CG	36.302	0.010	.
1	A	11	GLU	HG2	2.236	0.010	.
1	A	11	GLU	HG3	2.237	0.000	.
1	A	11	GLU	C	175.97	0.000	.
1	A	12	ASN	N	119.463	0.000	.
1	A	12	ASN	H	8.402	0.000	.
1	A	12	ASN	CA	53.402	0.000	.
1	A	12	ASN	HA	4.679	0.000	.
1	A	12	ASN	CB	39.088	0.000	.
1	A	12	ASN	HB2	2.724	0.000	.
1	A	12	ASN	HB3	2.809	0.000	.
1	A	12	ASN	ND2	108.585	0.010	.
1	A	12	ASN	HD21	8.074	0.010	.
1	A	12	ASN	HD22	8.209	0.010	.
1	A	12	ASN	C	174.908	0.000	.
1	A	13	ASN	N	119.493	0.000	.
1	A	13	ASN	H	8.4	0.000	.
1	A	13	ASN	CA	53.427	0.000	.
1	A	13	ASN	HA	4.685	0.000	.
1	A	13	ASN	CB	39.075	0.000	.
1	A	13	ASN	HB2	2.722	0.000	.
1	A	13	ASN	HB3	2.807	0.000	.
1	A	13	ASN	ND2	120.65	0.010	.
1	A	13	ASN	HD21	8.177	0.010	.
1	A	13	ASN	HD22	8.279	0.010	.
1	A	13	ASN	C	175.146	0.000	.
1	A	14	GLU	N	120.617	0.000	.
1	A	14	GLU	H	8.284	0.000	.
1	A	14	GLU	CA	56.48	0.000	.
1	A	14	GLU	HA	4.31	0.000	.
1	A	14	GLU	CB	30.479	0.000	.

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	14	GLU	HB2	1.881	0.000	.
1	A	14	GLU	HB3	2.046	0.000	.
1	A	14	GLU	CG	36.303	0.000	.
1	A	14	GLU	HG2	2.233	0.010	.
1	A	14	GLU	HG3	2.234	0.000	.
1	A	14	GLU	C	175.878	0.000	.
1	A	15	ASP	N	120.621	0.000	.
1	A	15	ASP	H	8.281	0.000	.
1	A	15	ASP	CA	54.579	0.000	.
1	A	15	ASP	HA	4.59	0.000	.
1	A	15	ASP	CB	41.707	0.000	.
1	A	15	ASP	HB2	2.553	0.000	.
1	A	15	ASP	HB3	2.66	0.000	.
1	A	15	ASP	C	175.265	0.000	.
1	A	16	PHE	N	120.554	0.010	.
1	A	16	PHE	H	8.271	0.010	.
1	A	16	PHE	CA	58.165	0.010	.
1	A	16	PHE	HA	4.571	0.010	.
1	A	16	PHE	CB	39.608	0.010	.
1	A	16	PHE	HB2	3.066	0.010	.
1	A	16	PHE	HB3	3.175	0.010	.
1	A	16	PHE	CD1	133.487	0.010	.
1	A	16	PHE	HD1	7.224	0.010	.
1	A	16	PHE	CE1	133.453	0.010	.
1	A	16	PHE	HE1	7.127	0.010	.
1	A	16	PHE	CZ	124.869	0.010	.
1	A	16	PHE	HZ	7.236	0.010	.
1	A	16	PHE	CE2	129.904	0.010	.
1	A	16	PHE	HE2	7.564	0.010	.
1	A	16	PHE	CD2	131.99	0.010	.
1	A	16	PHE	HD2	7.225	0.010	.
1	A	16	PHE	C	175.386	0.010	.
1	A	17	ASN	N	125.481	0.010	.
1	A	17	ASN	H	8.018	0.010	.
1	A	17	ASN	CA	59.675	0.010	.
1	A	17	ASN	HA	4.127	0.010	.
1	A	17	ASN	CB	38.56	0.010	.
1	A	17	ASN	HB2	1.856	0.010	.
1	A	17	ASN	HB3	1.89	0.010	.
1	A	17	ASN	ND2	117.902	0.010	.
1	A	17	ASN	HD21	8.043	0.010	.

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	17	ASN	HD22	8.183	0.010	.
1	A	17	ASN	C	174.361	0.010	.
1	A	18	ILE	N	119.444	0.010	.
1	A	18	ILE	H	7.997	0.000	.
1	A	18	ILE	CA	61.461	0.000	.
1	A	18	ILE	HA	4.213	0.000	.
1	A	18	ILE	CB	38.684	0.000	.
1	A	18	ILE	HB	1.896	0.000	.
1	A	18	ILE	HG21	0.914	0.000	.
1	A	18	ILE	HG22	0.914	0.000	.
1	A	18	ILE	HG23	0.914	0.000	.
1	A	18	ILE	CG2	17.64	0.000	.
1	A	18	ILE	CG1	27.342	0.000	.
1	A	18	ILE	HG12	1.193	0.000	.
1	A	18	ILE	HG13	1.467	0.000	.
1	A	18	ILE	HD11	0.9	0.010	.
1	A	18	ILE	HD12	0.9	0.010	.
1	A	18	ILE	HD13	0.9	0.010	.
1	A	18	ILE	CD1	17.643	0.000	.
1	A	18	ILE	C	176.885	0.000	.
1	A	19	VAL	N	112.195	0.000	.
1	A	19	VAL	H	8.42	0.000	.
1	A	19	VAL	CA	64.115	0.000	.
1	A	19	VAL	HA	3.972	0.000	.
1	A	19	VAL	CB	31.536	0.000	.
1	A	19	VAL	HB	2.275	0.000	.
1	A	19	VAL	HG11	0.941	0.000	.
1	A	19	VAL	HG12	0.941	0.000	.
1	A	19	VAL	HG13	0.941	0.000	.
1	A	19	VAL	HG21	1.045	0.000	.
1	A	19	VAL	HG22	1.045	0.000	.
1	A	19	VAL	HG23	1.045	0.000	.
1	A	19	VAL	CG1	18.966	0.000	.
1	A	19	VAL	CG2	21.605	0.010	.
1	A	19	VAL	C	173.948	0.010	.
1	A	20	ALA	N	118.139	0.000	.
1	A	20	ALA	H	8.521	0.000	.
1	A	20	ALA	CA	55.202	0.010	.
1	A	20	ALA	HA	4.205	0.010	.
1	A	20	ALA	HB1	1.423	0.010	.
1	A	20	ALA	HB2	1.423	0.010	.

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	20	ALA	HB3	1.423	0.010	.
1	A	20	ALA	CB	18.473	0.010	.
1	A	20	ALA	C	177.735	0.010	.
1	A	21	VAL	N	118.576	0.010	.
1	A	21	VAL	H	7.582	0.010	.
1	A	21	VAL	CA	67.298	0.010	.
1	A	21	VAL	HA	3.196	0.010	.
1	A	21	VAL	CB	31.166	0.000	.
1	A	21	VAL	HB	2.078	0.010	.
1	A	21	VAL	HG11	0.867	0.010	.
1	A	21	VAL	HG12	0.867	0.010	.
1	A	21	VAL	HG13	0.867	0.010	.
1	A	21	VAL	HG21	0.496	0.010	.
1	A	21	VAL	HG22	0.496	0.010	.
1	A	21	VAL	HG23	0.496	0.010	.
1	A	21	VAL	CG1	22.113	0.010	.
1	A	21	VAL	CG2	23.505	0.010	.
1	A	21	VAL	C	179.56	0.010	.
1	A	22	ALA	N	119.258	0.010	.
1	A	22	ALA	H	8.536	0.010	.
1	A	22	ALA	CA	54.861	0.010	.
1	A	22	ALA	HA	4.201	0.010	.
1	A	22	ALA	HB1	1.588	0.010	.
1	A	22	ALA	HB2	1.588	0.010	.
1	A	22	ALA	HB3	1.588	0.010	.
1	A	22	ALA	CB	18.671	0.010	.
1	A	22	ALA	C	177.624	0.010	.
1	A	23	SER	N	112.889	0.010	.
1	A	23	SER	H	6.986	0.010	.
1	A	23	SER	CA	59.579	0.010	.
1	A	23	SER	HA	4.311	0.010	.
1	A	23	SER	CB	59.541	0.010	.
1	A	23	SER	HB2	4.002	0.010	.
1	A	23	SER	HB3	4.315	0.010	.
1	A	23	SER	HG	4.108	0.010	.
1	A	23	SER	C	178.644	0.010	.
1	A	24	ASN	N	117.97	0.010	.
1	A	24	ASN	H	8.241	0.010	.
1	A	24	ASN	CA	60.794	0.010	.
1	A	24	ASN	HA	4.203	0.010	.
1	A	24	ASN	CB	38.678	0.010	.

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	24	ASN	HB2	1.854	0.010	.
1	A	24	ASN	HB3	1.857	0.010	.
1	A	24	ASN	ND2	117.857	0.010	.
1	A	24	ASN	HD21	8.029	0.010	.
1	A	24	ASN	HD22	8.162	0.010	.
1	A	24	ASN	C	175.399	0.010	.
1	A	25	PHE	N	123.303	0.010	.
1	A	25	PHE	H	8.241	0.010	.
1	A	25	PHE	CA	58.171	0.010	.
1	A	25	PHE	HA	4.199	0.010	.
1	A	25	PHE	CB	39.625	0.010	.
1	A	25	PHE	HB2	3.065	0.010	.
1	A	25	PHE	HB3	3.174	0.010	.
1	A	25	PHE	CD1	131.972	0.010	.
1	A	25	PHE	HD1	7.131	0.010	.
1	A	25	PHE	CE1	132.129	0.010	.
1	A	25	PHE	HE1	7.119	0.010	.
1	A	25	PHE	CZ	124.857	0.010	.
1	A	25	PHE	HZ	7.249	0.010	.
1	A	25	PHE	CE2	127.648	0.010	.
1	A	25	PHE	HE2	7.562	0.010	.
1	A	25	PHE	CD2	133.454	0.010	.
1	A	25	PHE	HD2	8.165	0.010	.
1	A	25	PHE	C	176.697	0.010	.
1	A	26	ALA	N	125.479	0.010	.
1	A	26	ALA	H	8.019	0.010	.
1	A	26	ALA	CA	53.552	0.000	.
1	A	26	ALA	HA	4.198	0.000	.
1	A	26	ALA	HB1	1.387	0.000	.
1	A	26	ALA	HB2	1.387	0.000	.
1	A	26	ALA	HB3	1.387	0.000	.
1	A	26	ALA	CB	19.205	0.000	.
1	A	26	ALA	C	178.177	0.010	.
1	A	27	THR	N	117.87	0.000	.
1	A	27	THR	H	8.164	0.000	.
1	A	27	THR	CA	62.275	0.010	.
1	A	27	THR	HA	4.341	0.000	.
1	A	27	THR	CB	69.424	0.010	.
1	A	27	THR	HB	4.334	0.000	.
1	A	27	THR	HG21	1.213	0.000	.
1	A	27	THR	HG22	1.213	0.000	.

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	27	THR	HG23	1.213	0.000	.
1	A	27	THR	HG1	2.014	0.010	.
1	A	27	THR	CG2	21.748	0.000	.
1	A	27	THR	C	177.108	0.010	.
1	A	28	THR	N	114.638	0.000	.
1	A	28	THR	H	7.878	0.000	.
1	A	28	THR	CA	61.324	0.000	.
1	A	28	THR	HA	4.428	0.000	.
1	A	28	THR	CB	70.312	0.000	.
1	A	28	THR	HB	4.203	0.000	.
1	A	28	THR	HG21	1.18	0.000	.
1	A	28	THR	HG22	1.18	0.000	.
1	A	28	THR	HG23	1.18	0.000	.
1	A	28	THR	HG1	4.426	0.010	.
1	A	28	THR	CG2	21.554	0.000	.
1	A	28	THR	C	173.77	0.000	.
1	A	29	ASP	N	122.091	0.000	.
1	A	29	ASP	H	8.347	0.000	.
1	A	29	ASP	CA	54.547	0.000	.
1	A	29	ASP	HA	4.583	0.000	.
1	A	29	ASP	CB	41.318	0.000	.
1	A	29	ASP	HB2	2.618	0.000	.
1	A	29	ASP	HB3	2.748	0.000	.
1	A	29	ASP	C	176.401	0.010	.

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	175	-0.22 ± 0.18	None needed (< 0.5 ppm)
$^{13}C_{\beta}$	159	0.12 ± 0.10	None needed (< 0.5 ppm)
$^{13}C'$	175	-0.31 ± 0.16	None needed (< 0.5 ppm)
^{15}N	166	0.67 ± 0.24	Should be applied

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 96%, i.e. 989 atoms were assigned a chemical shift out of a possible 1028. 0 out of 14 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	387/387 (100%)	157/157 (100%)	156/156 (100%)	74/74 (100%)
Sidechain	576/614 (94%)	394/402 (98%)	177/195 (91%)	5/17 (29%)
Aromatic	26/27 (96%)	13/14 (93%)	12/12 (100%)	1/1 (100%)
Overall	989/1028 (96%)	564/573 (98%)	345/363 (95%)	80/92 (87%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 95%, i.e. 1835 atoms were assigned a chemical shift out of a possible 1923. 0 out of 20 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	730/730 (100%)	300/300 (100%)	292/292 (100%)	138/138 (100%)
Sidechain	1033/1118 (92%)	705/725 (97%)	319/352 (91%)	9/41 (22%)
Aromatic	72/75 (96%)	36/38 (95%)	33/34 (97%)	3/3 (100%)
Overall	1835/1923 (95%)	1041/1063 (98%)	644/678 (95%)	150/182 (82%)

7.1.4 Statistically unusual chemical shifts (i)

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

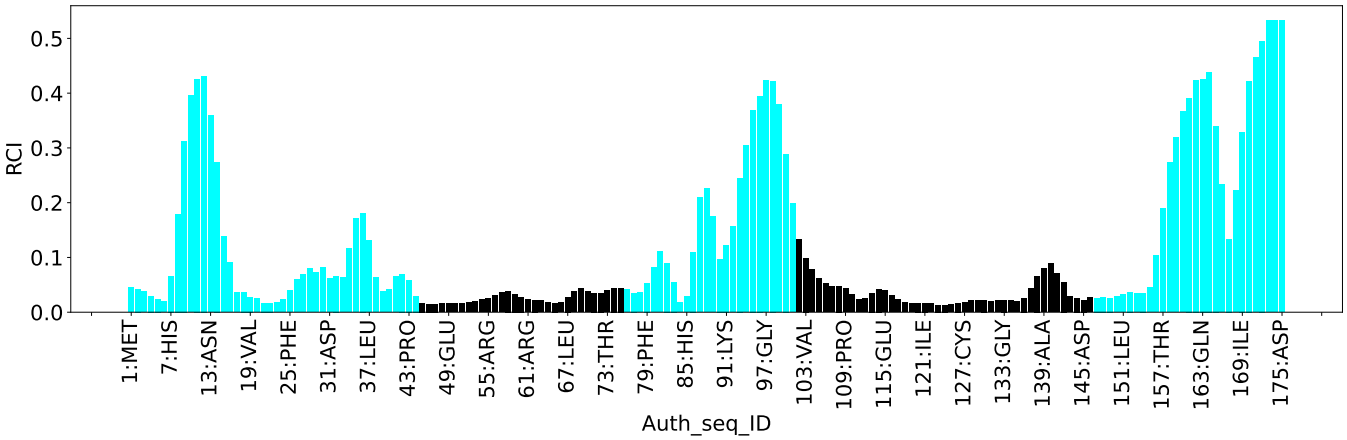
List Id	Chain	Res	Type	Atom	Shift, *ppm*	Expected range, *ppm*	Z-score
1	A	60	THR	HG1	7.54	0.08 – 2.19	30.4
1	A	157	THR	HG1	4.68	0.08 – 2.19	16.8
1	A	10	THR	HG1	4.68	0.08 – 2.19	16.8
1	A	132	THR	HG1	4.67	0.08 – 2.19	16.8
1	A	86	THR	HG1	4.48	0.08 – 2.19	15.8
1	A	28	THR	HG1	4.43	0.08 – 2.19	15.6
1	A	131	THR	HG1	3.90	0.08 – 2.19	13.1
1	A	120	PHE	CZ	119.86	121.82 – 136.66	-6.3
1	A	121	ILE	CG1	17.56	19.24 – 36.26	-6.0
1	A	108	ILE	CG1	17.64	19.24 – 36.26	-5.9
1	A	75	LYS	CE	37.02	37.57 – 46.21	-5.6
1	A	165	GLN	NE2	120.87	103.38 – 120.35	5.3

7.1.5 Random Coil Index (RCI) plots (i)

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

bars.

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	1567
Intra-residue (|i-j|=0)	332
Sequential (|i-j|=1)	507
Medium range (|i-j|>1 and |i-j|<5)	473
Long range (|i-j|≥5)	255
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	152
Number of unmapped restraints	4
Number of restraints per residue	9.8
Number of long range restraints per residue[1]	1.5

[1]Long 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)	40.1	0.2
0.2-0.5 (Medium)	8.7	0.5
>0.5 (Large)	0.1	0.53

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	4.7	7.91
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis (i)

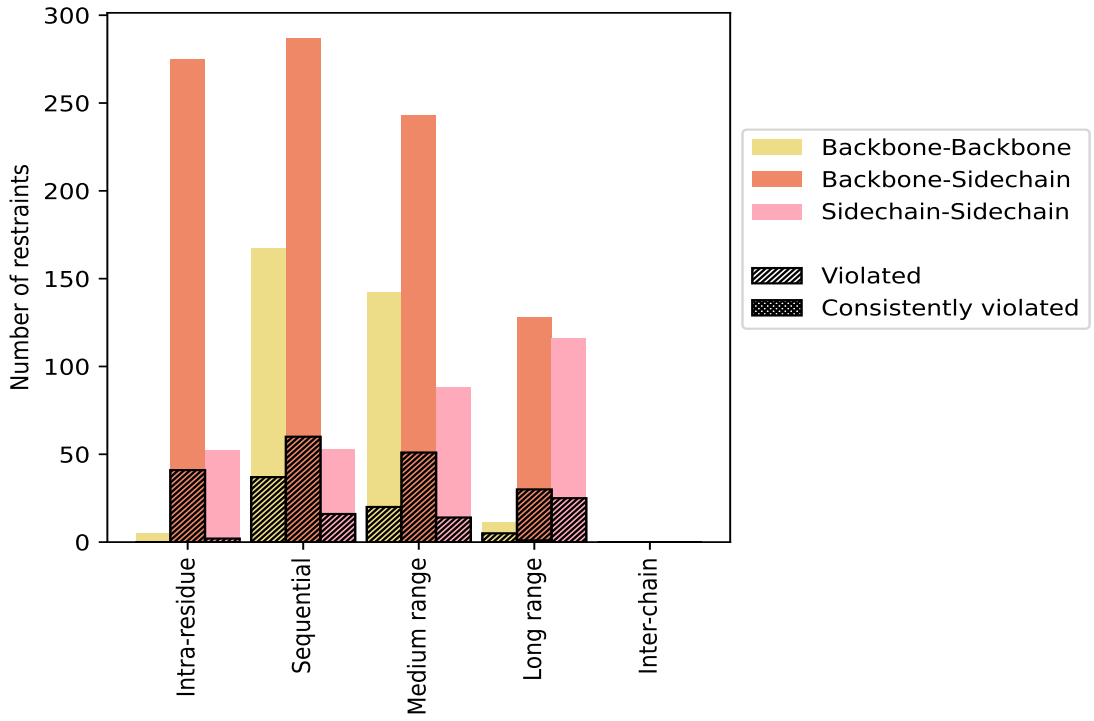
9.1 Summary of distance violations (i)

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

Restraints type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
Intra-residue (|i-j|=0)	332	21.2	43	13.0	2.7	0	0.0	0.0
Backbone-Backbone	5	0.3	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	275	17.5	41	14.9	2.6	0	0.0	0.0
Sidechain-Sidechain	52	3.3	2	3.8	0.1	0	0.0	0.0
Sequential (|i-j|=1)	507	32.4	113	22.3	7.2	0	0.0	0.0
Backbone-Backbone	167	10.7	37	22.2	2.4	0	0.0	0.0
Backbone-Sidechain	287	18.3	60	20.9	3.8	0	0.0	0.0
Sidechain-Sidechain	53	3.4	16	30.2	1.0	0	0.0	0.0
Medium range (|i-j|>1 & |i-j|<5)	473	30.2	85	18.0	5.4	0	0.0	0.0
Backbone-Backbone	142	9.1	20	14.1	1.3	0	0.0	0.0
Backbone-Sidechain	243	15.5	51	21.0	3.3	0	0.0	0.0
Sidechain-Sidechain	88	5.6	14	15.9	0.9	0	0.0	0.0
Long range (|i-j|≥5)	255	16.3	60	23.5	3.8	1	0.4	0.1
Backbone-Backbone	11	0.7	5	45.5	0.3	0	0.0	0.0
Backbone-Sidechain	128	8.2	30	23.4	1.9	1	0.8	0.1
Sidechain-Sidechain	116	7.4	25	21.6	1.6	0	0.0	0.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1567	100.0	301	19.2	19.2	1	0.1	0.1
Backbone-Backbone	325	20.7	62	19.1	4.0	0	0.0	0.0
Backbone-Sidechain	933	59.5	182	19.5	11.6	1	0.1	0.1
Sidechain-Sidechain	309	19.7	57	18.4	3.6	0	0.0	0.0

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

9.1.1 Bar chart : Distribution of distance restraints and violations



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

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	7	14	15	12	0	48	0.16	0.32	0.06	0.13
2	8	12	15	11	0	46	0.15	0.25	0.04	0.14
3	7	13	14	13	0	47	0.16	0.36	0.06	0.14
4	6	13	16	10	0	45	0.16	0.37	0.05	0.15
5	7	18	19	18	0	62	0.16	0.37	0.05	0.15
6	7	23	15	12	0	57	0.16	0.32	0.05	0.15
7	6	20	17	16	0	59	0.16	0.42	0.06	0.14
8	5	18	14	15	0	52	0.16	0.37	0.06	0.14
9	7	19	12	15	0	53	0.16	0.48	0.08	0.14
10	7	23	15	20	0	65	0.17	0.5	0.07	0.15
11	6	26	12	18	0	62	0.16	0.42	0.07	0.13

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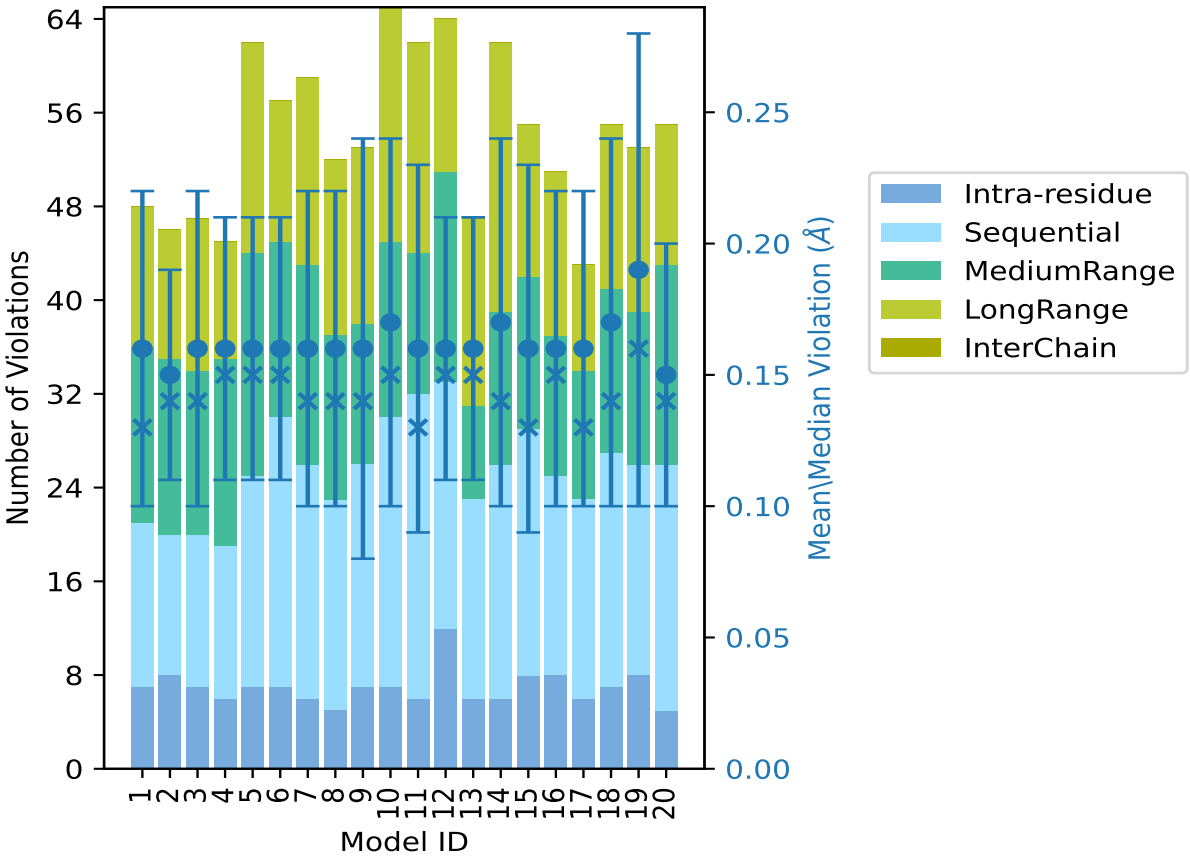
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
12	12	21	18	13	0	64	0.16	0.35	0.05	0.15
13	6	17	8	16	0	47	0.16	0.33	0.05	0.15
14	6	20	13	23	0	62	0.17	0.37	0.07	0.14
15	8	21	13	13	0	55	0.16	0.44	0.07	0.13
16	8	17	12	14	0	51	0.16	0.37	0.06	0.15
17	6	17	11	9	0	43	0.16	0.36	0.06	0.13
18	7	20	14	14	0	55	0.17	0.5	0.07	0.14
19	8	18	13	14	0	53	0.19	0.53	0.09	0.16
20	5	21	17	12	0	55	0.15	0.33	0.05	0.14

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

9.2.1 Bar graph : Distance 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

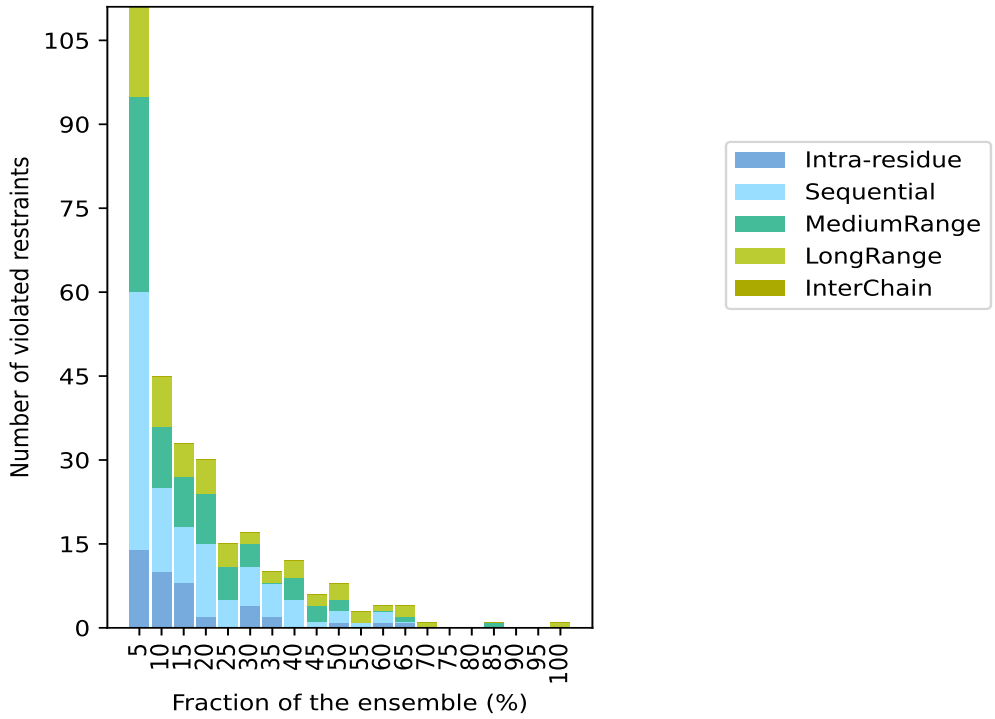
9.3 Distance violation statistics for the ensemble (i)

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, 1266(IR:289, SQ:394, MR:388, LR:195, 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]	%
14	46	35	16	0	111	1	5.0
10	15	11	9	0	45	2	10.0
8	10	9	6	0	33	3	15.0
2	13	9	6	0	30	4	20.0
0	5	6	4	0	15	5	25.0
4	7	4	2	0	17	6	30.0
2	6	0	2	0	10	7	35.0
0	5	4	3	0	12	8	40.0
0	1	3	2	0	6	9	45.0
1	2	2	3	0	8	10	50.0
0	1	0	2	0	3	11	55.0
1	2	0	1	0	4	12	60.0
1	0	1	2	0	4	13	65.0
0	0	0	1	0	1	14	70.0
0	0	0	0	0	0	15	75.0
0	0	0	0	0	0	16	80.0
0	0	1	0	0	1	17	85.0
0	0	0	0	0	0	18	90.0
0	0	0	0	0	0	19	95.0
0	0	0	1	0	1	20	100.0

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

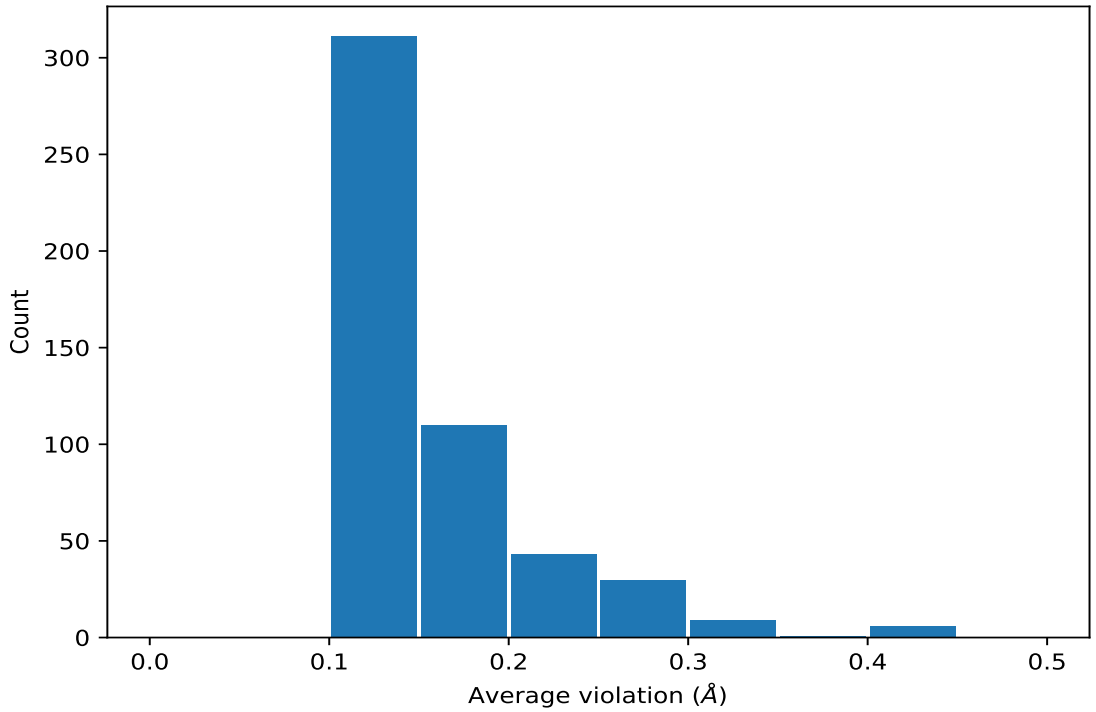
9.3.1 Bar graph : Distance violation statistics for the ensemble



9.4 Most violated distance restraints in the ensemble

9.4.1 Histogram : Distribution of mean distance violations

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

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)
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	20	0.17	0.04	0.15
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	20	0.17	0.04	0.15
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	20	0.17	0.04	0.15
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	17	0.26	0.06	0.25
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	17	0.26	0.06	0.25
(1,554)	1:76:A:MET:HE1	1:122:A:ALA:H	14	0.16	0.05	0.17
(1,554)	1:76:A:MET:HE2	1:122:A:ALA:H	14	0.16	0.05	0.17
(1,554)	1:76:A:MET:HE3	1:122:A:ALA:H	14	0.16	0.05	0.17
(1,1494)	1:66:A:CYS:HA	1:124:A:VAL:H	13	0.21	0.07	0.23
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD11	13	0.15	0.04	0.15
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD12	13	0.15	0.04	0.15
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD13	13	0.15	0.04	0.15
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD21	13	0.15	0.04	0.15
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD22	13	0.15	0.04	0.15
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD23	13	0.15	0.04	0.15
(1,1483)	1:65:A:ILE:HG12	1:126:A:LEU:H	13	0.14	0.03	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD11	13	0.14	0.02	0.14
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD12	13	0.14	0.02	0.14
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD13	13	0.14	0.02	0.14
(1,1468)	1:59:A:CYS:HB3	1:64:A:LEU:H	12	0.17	0.03	0.17
(1,1118)	1:129:A:ASP:HB2	1:130:A:CYS:H	12	0.15	0.03	0.15
(1,1118)	1:129:A:ASP:HB3	1:130:A:CYS:H	12	0.15	0.03	0.15
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD11	12	0.14	0.03	0.15
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD12	12	0.14	0.03	0.15
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD13	12	0.14	0.03	0.15
(1,143)	1:47:A:LEU:HD11	1:48:A:LYS:H	12	0.12	0.02	0.12
(1,143)	1:47:A:LEU:HD12	1:48:A:LYS:H	12	0.12	0.02	0.12
(1,143)	1:47:A:LEU:HD13	1:48:A:LYS:H	12	0.12	0.02	0.12
(1,143)	1:47:A:LEU:HD21	1:48:A:LYS:H	12	0.12	0.02	0.12
(1,143)	1:47:A:LEU:HD22	1:48:A:LYS:H	12	0.12	0.02	0.12
(1,143)	1:47:A:LEU:HD23	1:48:A:LYS:H	12	0.12	0.02	0.12
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE1	11	0.16	0.04	0.15
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE2	11	0.16	0.04	0.15
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE3	11	0.16	0.04	0.15
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE1	11	0.16	0.04	0.15
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE2	11	0.16	0.04	0.15
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE3	11	0.16	0.04	0.15
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE1	11	0.16	0.04	0.15
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE2	11	0.16	0.04	0.15
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE3	11	0.16	0.04	0.15
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE1	11	0.15	0.05	0.13
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE2	11	0.15	0.05	0.13
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE3	11	0.15	0.05	0.13
(1,830)	1:108:A:ILE:HD11	1:114:A:LEU:HG	11	0.15	0.03	0.14
(1,830)	1:108:A:ILE:HD12	1:114:A:LEU:HG	11	0.15	0.03	0.14
(1,830)	1:108:A:ILE:HD13	1:114:A:LEU:HG	11	0.15	0.03	0.14
(1,535)	1:75:A:LYS:H	1:116:A:PRO:HB2	10	0.18	0.06	0.18
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE2	10	0.18	0.09	0.14
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE3	10	0.18	0.09	0.14
(1,592)	1:88:A:GLU:HA	1:89:A:GLY:H	10	0.17	0.02	0.18
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD11	10	0.16	0.03	0.17
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD12	10	0.16	0.03	0.17
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD13	10	0.16	0.03	0.17
(1,235)	1:50:A:MET:HE1	1:147:A:LEU:HA	10	0.14	0.02	0.14
(1,235)	1:50:A:MET:HE2	1:147:A:LEU:HA	10	0.14	0.02	0.14
(1,235)	1:50:A:MET:HE3	1:147:A:LEU:HA	10	0.14	0.02	0.14
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD11	10	0.14	0.02	0.14
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD12	10	0.14	0.02	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD13	10	0.14	0.02	0.14
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB2	10	0.12	0.01	0.12
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB3	10	0.12	0.01	0.12
(1,932)	1:114:A:LEU:HG	1:119:A:GLN:H	10	0.12	0.01	0.11
(1,799)	1:106:A:PRO:HA	1:108:A:ILE:H	9	0.19	0.01	0.19
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD21	9	0.19	0.04	0.19
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD22	9	0.19	0.04	0.19
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD23	9	0.19	0.04	0.19
(1,1096)	1:127:A:CYS:H	1:129:A:ASP:H	9	0.18	0.02	0.18
(1,530)	1:75:A:LYS:HB2	1:116:A:PRO:HB2	9	0.15	0.03	0.15
(1,530)	1:75:A:LYS:HB3	1:116:A:PRO:HB2	9	0.15	0.03	0.15
(1,707)	1:102:A:ILE:HB	1:103:A:VAL:H	9	0.13	0.03	0.12
(1,760)	1:105:A:ILE:HD11	1:123:A:GLN:H	9	0.13	0.02	0.12
(1,760)	1:105:A:ILE:HD12	1:123:A:GLN:H	9	0.13	0.02	0.12
(1,760)	1:105:A:ILE:HD13	1:123:A:GLN:H	9	0.13	0.02	0.12
(1,1421)	1:169:A:ILE:HG21	1:170:A:LYS:H	8	0.21	0.04	0.2
(1,1421)	1:169:A:ILE:HG22	1:170:A:LYS:H	8	0.21	0.04	0.2
(1,1421)	1:169:A:ILE:HG23	1:170:A:LYS:H	8	0.21	0.04	0.2
(1,796)	1:105:A:ILE:H	1:123:A:GLN:HA	8	0.18	0.07	0.15
(1,1227)	1:146:A:LEU:HD11	1:150:A:TRP:HD1	8	0.18	0.03	0.18
(1,1227)	1:146:A:LEU:HD12	1:150:A:TRP:HD1	8	0.18	0.03	0.18
(1,1227)	1:146:A:LEU:HD13	1:150:A:TRP:HD1	8	0.18	0.03	0.18
(1,1227)	1:146:A:LEU:HD21	1:150:A:TRP:HD1	8	0.18	0.03	0.18
(1,1227)	1:146:A:LEU:HD22	1:150:A:TRP:HD1	8	0.18	0.03	0.18
(1,1227)	1:146:A:LEU:HD23	1:150:A:TRP:HD1	8	0.18	0.03	0.18
(1,900)	1:113:A:ASP:H	1:114:A:LEU:HG	8	0.17	0.01	0.17
(1,959)	1:117:A:MET:HG2	1:120:A:PHE:H	8	0.16	0.05	0.18
(1,959)	1:117:A:MET:HG3	1:120:A:PHE:H	8	0.16	0.05	0.18
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG21	8	0.15	0.03	0.15
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG22	8	0.15	0.03	0.15
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG23	8	0.15	0.03	0.15
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD21	8	0.14	0.02	0.14
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD22	8	0.14	0.02	0.14
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD23	8	0.14	0.02	0.14
(1,1037)	1:123:A:GLN:HA	1:126:A:LEU:H	8	0.14	0.02	0.14
(1,765)	1:105:A:ILE:HG12	1:124:A:VAL:H	8	0.13	0.02	0.13
(1,765)	1:105:A:ILE:HG13	1:124:A:VAL:H	8	0.13	0.02	0.13
(1,761)	1:105:A:ILE:HD11	1:124:A:VAL:H	8	0.13	0.01	0.12
(1,761)	1:105:A:ILE:HD12	1:124:A:VAL:H	8	0.13	0.01	0.12
(1,761)	1:105:A:ILE:HD13	1:124:A:VAL:H	8	0.13	0.01	0.12
(1,1455)	1:51:A:GLU:HB2	1:54:A:ALA:H	8	0.13	0.02	0.13
(1,818)	1:107:A:GLU:H	1:108:A:ILE:HG12	8	0.12	0.01	0.11

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD11	7	0.31	0.05	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD12	7	0.31	0.05	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD13	7	0.31	0.05	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD21	7	0.31	0.05	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD22	7	0.31	0.05	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD23	7	0.31	0.05	0.31
(1,1404)	1:168:A:LYS:HA	1:168:A:LYS:HD2	7	0.21	0.04	0.22
(1,1404)	1:168:A:LYS:HA	1:168:A:LYS:HD3	7	0.21	0.04	0.22
(1,1095)	1:127:A:CYS:H	1:128:A:VAL:H	7	0.19	0.03	0.2
(1,386)	1:63:A:CYS:HB2	1:64:A:LEU:H	7	0.17	0.04	0.15
(1,1525)	1:114:A:LEU:H	1:119:A:GLN:HG3	7	0.17	0.04	0.14
(1,1517)	1:108:A:ILE:HG21	1:122:A:ALA:HA	7	0.16	0.02	0.15
(1,1517)	1:108:A:ILE:HG22	1:122:A:ALA:HA	7	0.16	0.02	0.15
(1,1517)	1:108:A:ILE:HG23	1:122:A:ALA:HA	7	0.16	0.02	0.15
(1,1397)	1:166:A:VAL:H	1:166:A:VAL:HB	7	0.15	0.02	0.16
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD11	7	0.14	0.04	0.13
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD12	7	0.14	0.04	0.13
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD13	7	0.14	0.04	0.13
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD11	7	0.14	0.04	0.13
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD12	7	0.14	0.04	0.13
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD13	7	0.14	0.04	0.13
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB1	7	0.12	0.02	0.11
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB2	7	0.12	0.02	0.11
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB3	7	0.12	0.02	0.11
(1,170)	1:48:A:LYS:H	1:49:A:GLU:HB2	7	0.12	0.02	0.11
(1,1405)	1:168:A:LYS:HA	1:168:A:LYS:HE2	6	0.25	0.12	0.18
(1,1405)	1:168:A:LYS:HA	1:168:A:LYS:HE3	6	0.25	0.12	0.18
(1,1411)	1:168:A:LYS:HE2	1:169:A:ILE:H	6	0.19	0.06	0.18
(1,1411)	1:168:A:LYS:HE3	1:169:A:ILE:H	6	0.19	0.06	0.18
(1,584)	1:87:A:TYR:HB2	1:88:A:GLU:H	6	0.18	0.05	0.18
(1,584)	1:87:A:TYR:HB3	1:88:A:GLU:H	6	0.18	0.05	0.18
(1,1080)	1:126:A:LEU:H	1:126:A:LEU:HB3	6	0.18	0.01	0.17
(1,1052)	1:124:A:VAL:HB	1:127:A:CYS:H	6	0.16	0.04	0.15
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD11	6	0.15	0.04	0.15
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD12	6	0.15	0.04	0.15
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD13	6	0.15	0.04	0.15
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD11	6	0.15	0.04	0.15
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD12	6	0.15	0.04	0.15
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD13	6	0.15	0.04	0.15
(1,1511)	1:103:A:VAL:HB	1:111:A:PHE:HE2	6	0.14	0.03	0.15
(1,638)	1:93:A:SER:H	1:94:A:ALA:HA	6	0.14	0.03	0.12
(1,876)	1:111:A:PHE:HB2	1:112:A:LYS:H	6	0.13	0.02	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,415)	1:65:A:ILE:HG21	1:68:A:SER:HA	6	0.13	0.03	0.12
(1,415)	1:65:A:ILE:HG22	1:68:A:SER:HA	6	0.13	0.03	0.12
(1,415)	1:65:A:ILE:HG23	1:68:A:SER:HA	6	0.13	0.03	0.12
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD11	6	0.12	0.02	0.12
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD12	6	0.12	0.02	0.12
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD13	6	0.12	0.02	0.12
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD11	6	0.12	0.02	0.11
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD12	6	0.12	0.02	0.11
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD13	6	0.12	0.02	0.11
(1,1126)	1:130:A:CYS:H	1:131:A:THR:HA	6	0.12	0.01	0.11
(1,1121)	1:129:A:ASP:H	1:130:A:CYS:HB2	6	0.12	0.01	0.12
(1,1121)	1:129:A:ASP:H	1:130:A:CYS:HB3	6	0.12	0.01	0.12
(1,426)	1:66:A:CYS:HA	1:70:A:ILE:H	6	0.11	0.01	0.12
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG21	6	0.11	0.01	0.11
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG22	6	0.11	0.01	0.11
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG23	6	0.11	0.01	0.11
(1,1116)	1:129:A:ASP:HB3	1:130:A:CYS:H	6	0.1	0.0	0.1
(1,1520)	1:108:A:ILE:HD11	1:111:A:PHE:HD2	5	0.19	0.1	0.13
(1,1520)	1:108:A:ILE:HD12	1:111:A:PHE:HD2	5	0.19	0.1	0.13
(1,1520)	1:108:A:ILE:HD13	1:111:A:PHE:HD2	5	0.19	0.1	0.13
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD11	5	0.18	0.07	0.16
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD12	5	0.18	0.07	0.16
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD13	5	0.18	0.07	0.16
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD11	5	0.18	0.07	0.16
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD12	5	0.18	0.07	0.16
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD13	5	0.18	0.07	0.16
(1,1330)	1:155:A:CYS:H	1:156:A:ALA:HA	5	0.18	0.02	0.18
(1,1264)	1:148:A:LYS:HD2	1:149:A:LYS:H	5	0.18	0.04	0.2
(1,1264)	1:148:A:LYS:HD3	1:149:A:LYS:H	5	0.18	0.04	0.2
(1,1323)	1:150:A:TRP:HZ2	1:162:A:ILE:HG12	5	0.17	0.05	0.18
(1,1323)	1:150:A:TRP:HZ2	1:162:A:ILE:HG13	5	0.17	0.05	0.18
(1,658)	1:97:A:GLY:HA2	1:98:A:ILE:H	5	0.16	0.04	0.13
(1,658)	1:97:A:GLY:HA3	1:98:A:ILE:H	5	0.16	0.04	0.13
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD11	5	0.16	0.03	0.16
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD12	5	0.16	0.03	0.16
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD13	5	0.16	0.03	0.16
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD11	5	0.16	0.03	0.16
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD12	5	0.16	0.03	0.16
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD13	5	0.16	0.03	0.16
(1,369)	1:62:A:GLY:HA2	1:65:A:ILE:H	5	0.15	0.03	0.14
(1,346)	1:59:A:CYS:HA	1:134:A:CYS:H	5	0.15	0.03	0.14
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG21	5	0.14	0.02	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG22	5	0.14	0.02	0.14
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG23	5	0.14	0.02	0.14
(1,352)	1:60:A:THR:H	1:63:A:CYS:HB2	5	0.14	0.02	0.14
(1,732)	1:103:A:VAL:H	1:104:A:ASP:HA	5	0.13	0.03	0.12
(1,1342)	1:157:A:THR:H	1:158:A:PHE:H	5	0.12	0.02	0.12
(2,1)	1:66:A:CYS:H	1:70:A:ILE:H	5	0.12	0.01	0.11
(1,919)	1:114:A:LEU:HD11	1:118:A:GLU:HB3	5	0.11	0.01	0.11
(1,919)	1:114:A:LEU:HD12	1:118:A:GLU:HB3	5	0.11	0.01	0.11
(1,919)	1:114:A:LEU:HD13	1:118:A:GLU:HB3	5	0.11	0.01	0.11
(1,598)	1:88:A:GLU:HG2	1:89:A:GLY:H	4	0.31	0.04	0.32
(1,598)	1:88:A:GLU:HG3	1:89:A:GLY:H	4	0.31	0.04	0.32
(1,615)	1:91:A:LYS:HB2	1:92:A:GLU:HG2	4	0.3	0.13	0.34
(1,615)	1:91:A:LYS:HB2	1:92:A:GLU:HG3	4	0.3	0.13	0.34
(1,615)	1:91:A:LYS:HB3	1:92:A:GLU:HG2	4	0.3	0.13	0.34
(1,615)	1:91:A:LYS:HB3	1:92:A:GLU:HG3	4	0.3	0.13	0.34
(1,64)	1:44:A:LEU:HD11	1:45:A:GLU:HA	4	0.25	0.1	0.26
(1,64)	1:44:A:LEU:HD12	1:45:A:GLU:HA	4	0.25	0.1	0.26
(1,64)	1:44:A:LEU:HD13	1:45:A:GLU:HA	4	0.25	0.1	0.26
(1,64)	1:44:A:LEU:HD21	1:45:A:GLU:HA	4	0.25	0.1	0.26
(1,64)	1:44:A:LEU:HD22	1:45:A:GLU:HA	4	0.25	0.1	0.26
(1,64)	1:44:A:LEU:HD23	1:45:A:GLU:HA	4	0.25	0.1	0.26
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD11	4	0.21	0.04	0.22
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD12	4	0.21	0.04	0.22
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD13	4	0.21	0.04	0.22
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD21	4	0.21	0.04	0.22
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD22	4	0.21	0.04	0.22
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD23	4	0.21	0.04	0.22
(1,1389)	1:165:A:GLN:HG2	1:167:A:ASP:H	4	0.2	0.09	0.18
(1,1389)	1:165:A:GLN:HG3	1:167:A:ASP:H	4	0.2	0.09	0.18
(1,502)	1:71:A:LYS:HB2	1:103:A:VAL:HB	4	0.19	0.03	0.2
(1,502)	1:71:A:LYS:HB3	1:103:A:VAL:HB	4	0.19	0.03	0.2
(1,1372)	1:163:A:GLN:HA	1:164:A:GLY:H	4	0.18	0.0	0.18
(1,1346)	1:158:A:PHE:H	1:158:A:PHE:HB2	4	0.17	0.0	0.17
(1,1346)	1:158:A:PHE:H	1:158:A:PHE:HB3	4	0.17	0.0	0.17
(1,691)	1:100:A:GLU:HG2	1:101:A:ALA:H	4	0.16	0.05	0.14
(1,691)	1:100:A:GLU:HG3	1:101:A:ALA:H	4	0.16	0.05	0.14
(1,682)	1:99:A:GLY:HA2	1:100:A:GLU:HG2	4	0.15	0.03	0.14
(1,682)	1:99:A:GLY:HA2	1:100:A:GLU:HG3	4	0.15	0.03	0.14
(1,682)	1:99:A:GLY:HA3	1:100:A:GLU:HG2	4	0.15	0.03	0.14
(1,682)	1:99:A:GLY:HA3	1:100:A:GLU:HG3	4	0.15	0.03	0.14
(1,1489)	1:65:A:ILE:HG13	1:127:A:CYS:H	4	0.15	0.03	0.14
(1,1056)	1:124:A:VAL:HG11	1:127:A:CYS:H	4	0.14	0.05	0.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1056)	1:124:A:VAL:HG12	1:127:A:CYS:H	4	0.14	0.05	0.12
(1,1056)	1:124:A:VAL:HG13	1:127:A:CYS:H	4	0.14	0.05	0.12
(1,277)	1:52:A:ALA:H	1:53:A:ASN:HB2	4	0.14	0.02	0.14
(1,599)	1:88:A:GLU:HG2	1:90:A:ASP:H	4	0.14	0.01	0.14
(1,599)	1:88:A:GLU:HG3	1:90:A:ASP:H	4	0.14	0.01	0.14
(1,1513)	1:103:A:VAL:HG11	1:111:A:PHE:HE2	4	0.14	0.02	0.14
(1,1513)	1:103:A:VAL:HG12	1:111:A:PHE:HE2	4	0.14	0.02	0.14
(1,1513)	1:103:A:VAL:HG13	1:111:A:PHE:HE2	4	0.14	0.02	0.14
(1,1513)	1:103:A:VAL:HG21	1:111:A:PHE:HE2	4	0.14	0.02	0.14
(1,1513)	1:103:A:VAL:HG22	1:111:A:PHE:HE2	4	0.14	0.02	0.14
(1,1513)	1:103:A:VAL:HG23	1:111:A:PHE:HE2	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD11	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD12	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD13	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD21	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD22	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD23	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD11	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD12	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD13	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD21	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD22	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD23	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD11	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD12	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD13	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD21	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD22	4	0.14	0.02	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD23	4	0.14	0.02	0.14
(1,2)	1:31:A:ASP:HA	1:34:A:ARG:HD2	4	0.13	0.0	0.13
(1,2)	1:31:A:ASP:HA	1:34:A:ARG:HD3	4	0.13	0.0	0.13
(1,580)	1:86:A:THR:HG21	1:87:A:TYR:HD1	4	0.13	0.04	0.12
(1,580)	1:86:A:THR:HG21	1:87:A:TYR:HD2	4	0.13	0.04	0.12
(1,580)	1:86:A:THR:HG22	1:87:A:TYR:HD1	4	0.13	0.04	0.12
(1,580)	1:86:A:THR:HG22	1:87:A:TYR:HD2	4	0.13	0.04	0.12
(1,580)	1:86:A:THR:HG23	1:87:A:TYR:HD1	4	0.13	0.04	0.12
(1,580)	1:86:A:THR:HG23	1:87:A:TYR:HD2	4	0.13	0.04	0.12
(1,1315)	1:150:A:TRP:HH2	1:162:A:ILE:HB	4	0.13	0.01	0.13
(1,373)	1:62:A:GLY:H	1:65:A:ILE:HD11	4	0.13	0.02	0.13
(1,373)	1:62:A:GLY:H	1:65:A:ILE:HD12	4	0.13	0.02	0.13
(1,373)	1:62:A:GLY:H	1:65:A:ILE:HD13	4	0.13	0.02	0.13
(1,898)	1:113:A:ASP:H	1:114:A:LEU:HD11	4	0.13	0.02	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,898)	1:113:A:ASP:H	1:114:A:LEU:HD12	4	0.13	0.02	0.13
(1,898)	1:113:A:ASP:H	1:114:A:LEU:HD13	4	0.13	0.02	0.13
(1,1280)	1:149:A:LYS:HD2	1:150:A:TRP:HD1	4	0.13	0.01	0.12
(1,1280)	1:149:A:LYS:HD3	1:150:A:TRP:HD1	4	0.13	0.01	0.12
(1,341)	1:57:A:ALA:H	1:137:A:GLY:H	4	0.12	0.02	0.12
(1,9)	1:31:A:ASP:H	1:34:A:ARG:HG2	4	0.12	0.03	0.11
(1,9)	1:31:A:ASP:H	1:34:A:ARG:HG3	4	0.12	0.03	0.11
(1,1474)	1:64:A:LEU:H	1:67:A:LEU:H	4	0.12	0.02	0.11
(1,175)	1:49:A:GLU:HA	1:52:A:ALA:HB1	4	0.12	0.01	0.12
(1,175)	1:49:A:GLU:HA	1:52:A:ALA:HB2	4	0.12	0.01	0.12
(1,175)	1:49:A:GLU:HA	1:52:A:ALA:HB3	4	0.12	0.01	0.12
(1,604)	1:89:A:GLY:HA2	1:90:A:ASP:H	4	0.11	0.01	0.12
(1,604)	1:89:A:GLY:HA3	1:90:A:ASP:H	4	0.11	0.01	0.12
(1,1290)	1:149:A:LYS:HE2	1:150:A:TRP:HZ2	4	0.11	0.01	0.11
(1,1290)	1:149:A:LYS:HE3	1:150:A:TRP:HZ2	4	0.11	0.01	0.11
(1,891)	1:112:A:LYS:H	1:113:A:ASP:HB2	4	0.11	0.01	0.11
(1,891)	1:112:A:LYS:H	1:113:A:ASP:HB3	4	0.11	0.01	0.11
(1,1110)	1:128:A:VAL:H	1:128:A:VAL:HG11	4	0.11	0.01	0.11
(1,1110)	1:128:A:VAL:H	1:128:A:VAL:HG12	4	0.11	0.01	0.11
(1,1110)	1:128:A:VAL:H	1:128:A:VAL:HG13	4	0.11	0.01	0.11
(1,1356)	1:161:A:LYS:HA	1:162:A:ILE:H	3	0.35	0.08	0.31
(1,1430)	1:170:A:LYS:H	1:170:A:LYS:HG2	3	0.27	0.03	0.29
(1,1430)	1:170:A:LYS:H	1:170:A:LYS:HG3	3	0.27	0.03	0.29
(1,1282)	1:149:A:LYS:HD2	1:150:A:TRP:HE3	3	0.26	0.07	0.29
(1,1282)	1:149:A:LYS:HD3	1:150:A:TRP:HE3	3	0.26	0.07	0.29
(1,1339)	1:157:A:THR:HA	1:158:A:PHE:H	3	0.22	0.02	0.22
(1,693)	1:100:A:GLU:H	1:100:A:GLU:HB2	3	0.22	0.03	0.24
(1,693)	1:100:A:GLU:H	1:100:A:GLU:HB3	3	0.22	0.03	0.24
(1,608)	1:90:A:ASP:HB2	1:92:A:GLU:H	3	0.22	0.03	0.24
(1,608)	1:90:A:ASP:HB3	1:92:A:GLU:H	3	0.22	0.03	0.24
(1,589)	1:87:A:TYR:H	1:87:A:TYR:HD1	3	0.21	0.06	0.17
(1,589)	1:87:A:TYR:H	1:87:A:TYR:HD2	3	0.21	0.06	0.17
(1,953)	1:117:A:MET:HE1	1:118:A:GLU:HA	3	0.2	0.0	0.2
(1,953)	1:117:A:MET:HE2	1:118:A:GLU:HA	3	0.2	0.0	0.2
(1,953)	1:117:A:MET:HE3	1:118:A:GLU:HA	3	0.2	0.0	0.2
(1,351)	1:60:A:THR:H	1:63:A:CYS:HB3	3	0.2	0.04	0.2
(1,1429)	1:170:A:LYS:H	1:170:A:LYS:HB2	3	0.19	0.01	0.19
(1,1429)	1:170:A:LYS:H	1:170:A:LYS:HB3	3	0.19	0.01	0.19
(1,948)	1:117:A:MET:HA	1:117:A:MET:HE1	3	0.19	0.0	0.19
(1,948)	1:117:A:MET:HA	1:117:A:MET:HE2	3	0.19	0.0	0.19
(1,948)	1:117:A:MET:HA	1:117:A:MET:HE3	3	0.19	0.0	0.19
(1,1375)	1:163:A:GLN:H	1:163:A:GLN:HB2	3	0.18	0.06	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1375)	1:163:A:GLN:H	1:163:A:GLN:HB3	3	0.18	0.06	0.2
(1,507)	1:71:A:LYS:HE2	1:104:A:ASP:H	3	0.18	0.05	0.21
(1,507)	1:71:A:LYS:HE3	1:104:A:ASP:H	3	0.18	0.05	0.21
(1,733)	1:103:A:VAL:H	1:104:A:ASP:HB2	3	0.16	0.04	0.17
(1,733)	1:103:A:VAL:H	1:104:A:ASP:HB3	3	0.16	0.04	0.17
(1,1312)	1:150:A:TRP:HE1	1:162:A:ILE:HG21	3	0.15	0.04	0.16
(1,1312)	1:150:A:TRP:HE1	1:162:A:ILE:HG22	3	0.15	0.04	0.16
(1,1312)	1:150:A:TRP:HE1	1:162:A:ILE:HG23	3	0.15	0.04	0.16
(1,711)	1:102:A:ILE:HG21	1:103:A:VAL:H	3	0.15	0.03	0.16
(1,711)	1:102:A:ILE:HG22	1:103:A:VAL:H	3	0.15	0.03	0.16
(1,711)	1:102:A:ILE:HG23	1:103:A:VAL:H	3	0.15	0.03	0.16
(1,1256)	1:147:A:LEU:H	1:150:A:TRP:H	3	0.14	0.0	0.14
(1,67)	1:44:A:LEU:HD11	1:46:A:VAL:H	3	0.14	0.03	0.16
(1,67)	1:44:A:LEU:HD12	1:46:A:VAL:H	3	0.14	0.03	0.16
(1,67)	1:44:A:LEU:HD13	1:46:A:VAL:H	3	0.14	0.03	0.16
(1,67)	1:44:A:LEU:HD21	1:46:A:VAL:H	3	0.14	0.03	0.16
(1,67)	1:44:A:LEU:HD22	1:46:A:VAL:H	3	0.14	0.03	0.16
(1,67)	1:44:A:LEU:HD23	1:46:A:VAL:H	3	0.14	0.03	0.16
(1,142)	1:47:A:LEU:HD11	1:48:A:LYS:HG2	3	0.14	0.02	0.14
(1,142)	1:47:A:LEU:HD11	1:48:A:LYS:HG3	3	0.14	0.02	0.14
(1,142)	1:47:A:LEU:HD12	1:48:A:LYS:HG2	3	0.14	0.02	0.14
(1,142)	1:47:A:LEU:HD12	1:48:A:LYS:HG3	3	0.14	0.02	0.14
(1,142)	1:47:A:LEU:HD13	1:48:A:LYS:HG2	3	0.14	0.02	0.14
(1,142)	1:47:A:LEU:HD13	1:48:A:LYS:HG3	3	0.14	0.02	0.14
(1,142)	1:47:A:LEU:HD21	1:48:A:LYS:HG2	3	0.14	0.02	0.14
(1,142)	1:47:A:LEU:HD21	1:48:A:LYS:HG3	3	0.14	0.02	0.14
(1,142)	1:47:A:LEU:HD22	1:48:A:LYS:HG2	3	0.14	0.02	0.14
(1,142)	1:47:A:LEU:HD22	1:48:A:LYS:HG3	3	0.14	0.02	0.14
(1,142)	1:47:A:LEU:HD23	1:48:A:LYS:HG2	3	0.14	0.02	0.14
(1,142)	1:47:A:LEU:HD23	1:48:A:LYS:HG3	3	0.14	0.02	0.14
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD11	3	0.14	0.01	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD12	3	0.14	0.01	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD13	3	0.14	0.01	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD21	3	0.14	0.01	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD22	3	0.14	0.01	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD23	3	0.14	0.01	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD11	3	0.14	0.01	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD12	3	0.14	0.01	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD13	3	0.14	0.01	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD21	3	0.14	0.01	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD22	3	0.14	0.01	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD23	3	0.14	0.01	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,544)	1:76:A:MET:HB2	1:117:A:MET:H	3	0.14	0.0	0.14
(1,544)	1:76:A:MET:HB3	1:117:A:MET:H	3	0.14	0.0	0.14
(1,47)	1:43:A:PRO:HB3	1:45:A:GLU:H	3	0.13	0.03	0.12
(1,1299)	1:149:A:LYS:H	1:149:A:LYS:HE3	3	0.13	0.03	0.11
(1,540)	1:75:A:LYS:H	1:78:A:LYS:HB2	3	0.13	0.02	0.11
(1,540)	1:75:A:LYS:H	1:78:A:LYS:HB3	3	0.13	0.02	0.11
(1,757)	1:105:A:ILE:HD11	1:122:A:ALA:HB1	3	0.12	0.0	0.12
(1,757)	1:105:A:ILE:HD11	1:122:A:ALA:HB2	3	0.12	0.0	0.12
(1,757)	1:105:A:ILE:HD11	1:122:A:ALA:HB3	3	0.12	0.0	0.12
(1,757)	1:105:A:ILE:HD12	1:122:A:ALA:HB1	3	0.12	0.0	0.12
(1,757)	1:105:A:ILE:HD12	1:122:A:ALA:HB2	3	0.12	0.0	0.12
(1,757)	1:105:A:ILE:HD12	1:122:A:ALA:HB3	3	0.12	0.0	0.12
(1,757)	1:105:A:ILE:HD13	1:122:A:ALA:HB1	3	0.12	0.0	0.12
(1,757)	1:105:A:ILE:HD13	1:122:A:ALA:HB2	3	0.12	0.0	0.12
(1,757)	1:105:A:ILE:HD13	1:122:A:ALA:HB3	3	0.12	0.0	0.12
(1,1338)	1:157:A:THR:HA	1:157:A:THR:HG21	3	0.12	0.0	0.12
(1,1338)	1:157:A:THR:HA	1:157:A:THR:HG22	3	0.12	0.0	0.12
(1,1338)	1:157:A:THR:HA	1:157:A:THR:HG23	3	0.12	0.0	0.12
(1,816)	1:107:A:GLU:H	1:108:A:ILE:HD11	3	0.12	0.01	0.12
(1,816)	1:107:A:GLU:H	1:108:A:ILE:HD12	3	0.12	0.01	0.12
(1,816)	1:107:A:GLU:H	1:108:A:ILE:HD13	3	0.12	0.01	0.12
(1,1484)	1:65:A:ILE:HG12	1:127:A:CYS:HB3	3	0.12	0.01	0.13
(1,1550)	1:120:A:PHE:HE1	1:124:A:VAL:HG21	3	0.12	0.02	0.11
(1,1550)	1:120:A:PHE:HE1	1:124:A:VAL:HG22	3	0.12	0.02	0.11
(1,1550)	1:120:A:PHE:HE1	1:124:A:VAL:HG23	3	0.12	0.02	0.11
(1,1383)	1:165:A:GLN:HA	1:166:A:VAL:H	3	0.11	0.02	0.1
(1,859)	1:109:A:PRO:HA	1:111:A:PHE:H	3	0.11	0.01	0.12
(1,169)	1:48:A:LYS:H	1:49:A:GLU:HA	3	0.11	0.01	0.11
(1,1255)	1:147:A:LEU:H	1:150:A:TRP:HD1	3	0.11	0.01	0.1
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG11	2	0.42	0.0	0.42
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG12	2	0.42	0.0	0.42
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG13	2	0.42	0.0	0.42
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG21	2	0.42	0.0	0.42
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG22	2	0.42	0.0	0.42
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG23	2	0.42	0.0	0.42
(1,1361)	1:162:A:ILE:HA	1:163:A:GLN:H	2	0.37	0.0	0.37
(1,622)	1:91:A:LYS:H	1:92:A:GLU:H	2	0.29	0.03	0.29
(1,616)	1:91:A:LYS:HB2	1:92:A:GLU:H	2	0.28	0.13	0.28
(1,616)	1:91:A:LYS:HB3	1:92:A:GLU:H	2	0.28	0.13	0.28
(1,697)	1:101:A:ALA:HA	1:102:A:ILE:HD11	2	0.27	0.1	0.27
(1,697)	1:101:A:ALA:HA	1:102:A:ILE:HD12	2	0.27	0.1	0.27
(1,697)	1:101:A:ALA:HA	1:102:A:ILE:HD13	2	0.27	0.1	0.27

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG11	2	0.26	0.06	0.26
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG12	2	0.26	0.06	0.26
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG13	2	0.26	0.06	0.26
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG21	2	0.26	0.06	0.26
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG22	2	0.26	0.06	0.26
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG23	2	0.26	0.06	0.26
(1,1334)	1:156:A:ALA:HB1	1:158:A:PHE:H	2	0.23	0.06	0.23
(1,1334)	1:156:A:ALA:HB2	1:158:A:PHE:H	2	0.23	0.06	0.23
(1,1334)	1:156:A:ALA:HB3	1:158:A:PHE:H	2	0.23	0.06	0.23
(1,690)	1:100:A:GLU:HB2	1:101:A:ALA:H	2	0.22	0.01	0.22
(1,690)	1:100:A:GLU:HB3	1:101:A:ALA:H	2	0.22	0.01	0.22
(1,1090)	1:127:A:CYS:HB2	1:130:A:CYS:H	2	0.22	0.02	0.22
(1,1090)	1:127:A:CYS:HB3	1:130:A:CYS:H	2	0.22	0.02	0.22
(1,574)	1:78:A:LYS:H	1:78:A:LYS:HE2	2	0.21	0.0	0.21
(1,574)	1:78:A:LYS:H	1:78:A:LYS:HE3	2	0.21	0.0	0.21
(1,1314)	1:150:A:TRP:HE3	1:162:A:ILE:HG21	2	0.2	0.03	0.2
(1,1314)	1:150:A:TRP:HE3	1:162:A:ILE:HG22	2	0.2	0.03	0.2
(1,1314)	1:150:A:TRP:HE3	1:162:A:ILE:HG23	2	0.2	0.03	0.2
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD11	2	0.2	0.08	0.2
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD12	2	0.2	0.08	0.2
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD13	2	0.2	0.08	0.2
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD21	2	0.2	0.08	0.2
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD22	2	0.2	0.08	0.2
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD23	2	0.2	0.08	0.2
(1,727)	1:103:A:VAL:HG11	1:123:A:GLN:HA	2	0.19	0.02	0.19
(1,727)	1:103:A:VAL:HG12	1:123:A:GLN:HA	2	0.19	0.02	0.19
(1,727)	1:103:A:VAL:HG13	1:123:A:GLN:HA	2	0.19	0.02	0.19
(1,727)	1:103:A:VAL:HG21	1:123:A:GLN:HA	2	0.19	0.02	0.19
(1,727)	1:103:A:VAL:HG22	1:123:A:GLN:HA	2	0.19	0.02	0.19
(1,727)	1:103:A:VAL:HG23	1:123:A:GLN:HA	2	0.19	0.02	0.19
(1,506)	1:71:A:LYS:HE2	1:103:A:VAL:H	2	0.18	0.04	0.18
(1,506)	1:71:A:LYS:HE3	1:103:A:VAL:H	2	0.18	0.04	0.18
(1,508)	1:71:A:LYS:HE2	1:72:A:CYS:H	2	0.16	0.04	0.16
(1,508)	1:71:A:LYS:HE3	1:72:A:CYS:H	2	0.16	0.04	0.16
(1,1400)	1:166:A:VAL:H	1:167:A:ASP:H	2	0.16	0.06	0.16
(1,1453)	1:50:A:MET:HG2	1:141:A:VAL:HG11	2	0.16	0.01	0.16
(1,1453)	1:50:A:MET:HG2	1:141:A:VAL:HG12	2	0.16	0.01	0.16
(1,1453)	1:50:A:MET:HG2	1:141:A:VAL:HG13	2	0.16	0.01	0.16
(1,1453)	1:50:A:MET:HG3	1:141:A:VAL:HG11	2	0.16	0.01	0.16
(1,1453)	1:50:A:MET:HG3	1:141:A:VAL:HG12	2	0.16	0.01	0.16
(1,1453)	1:50:A:MET:HG3	1:141:A:VAL:HG13	2	0.16	0.01	0.16
(1,1441)	1:31:A:ASP:HB2	1:35:A:GLY:H	2	0.16	0.01	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1441)	1:31:A:ASP:HB3	1:35:A:GLY:H	2	0.16	0.01	0.16
(1,1351)	1:160:A:SER:HA	1:161:A:LYS:H	2	0.16	0.02	0.16
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD11	2	0.15	0.02	0.15
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD12	2	0.15	0.02	0.15
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD13	2	0.15	0.02	0.15
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD21	2	0.15	0.02	0.15
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD22	2	0.15	0.02	0.15
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD23	2	0.15	0.02	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD11	2	0.15	0.0	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD12	2	0.15	0.0	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD13	2	0.15	0.0	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD21	2	0.15	0.0	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD22	2	0.15	0.0	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD23	2	0.15	0.0	0.15
(1,34)	1:35:A:GLY:H	1:36:A:LYS:HA	2	0.15	0.04	0.15
(1,652)	1:96:A:GLY:HA2	1:100:A:GLU:H	2	0.15	0.02	0.15
(1,652)	1:96:A:GLY:HA3	1:100:A:GLU:H	2	0.15	0.02	0.15
(1,1417)	1:169:A:ILE:HB	1:169:A:ILE:HD11	2	0.15	0.0	0.15
(1,1417)	1:169:A:ILE:HB	1:169:A:ILE:HD12	2	0.15	0.0	0.15
(1,1417)	1:169:A:ILE:HB	1:169:A:ILE:HD13	2	0.15	0.0	0.15
(1,326)	1:56:A:LYS:H	1:56:A:LYS:HD2	2	0.14	0.03	0.14
(1,326)	1:56:A:LYS:H	1:56:A:LYS:HD3	2	0.14	0.03	0.14
(1,1391)	1:165:A:GLN:H	1:165:A:GLN:HG2	2	0.14	0.01	0.14
(1,1391)	1:165:A:GLN:H	1:165:A:GLN:HG3	2	0.14	0.01	0.14
(1,1418)	1:169:A:ILE:HB	1:170:A:LYS:H	2	0.14	0.03	0.14
(1,606)	1:90:A:ASP:HA	1:91:A:LYS:H	2	0.14	0.02	0.14
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG11	2	0.13	0.02	0.13
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG12	2	0.13	0.02	0.13
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG13	2	0.13	0.02	0.13
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG21	2	0.13	0.02	0.13
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG22	2	0.13	0.02	0.13
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG23	2	0.13	0.02	0.13
(2,2)	1:102:A:ILE:HD11	1:105:A:ILE:HD11	2	0.13	0.02	0.13
(2,2)	1:102:A:ILE:HD11	1:105:A:ILE:HD12	2	0.13	0.02	0.13
(2,2)	1:102:A:ILE:HD11	1:105:A:ILE:HD13	2	0.13	0.02	0.13
(2,2)	1:102:A:ILE:HD12	1:105:A:ILE:HD11	2	0.13	0.02	0.13
(2,2)	1:102:A:ILE:HD12	1:105:A:ILE:HD12	2	0.13	0.02	0.13
(2,2)	1:102:A:ILE:HD12	1:105:A:ILE:HD13	2	0.13	0.02	0.13
(2,2)	1:102:A:ILE:HD13	1:105:A:ILE:HD11	2	0.13	0.02	0.13
(2,2)	1:102:A:ILE:HD13	1:105:A:ILE:HD12	2	0.13	0.02	0.13
(2,2)	1:102:A:ILE:HD13	1:105:A:ILE:HD13	2	0.13	0.02	0.13
(1,37)	1:36:A:LYS:H	1:36:A:LYS:HB2	2	0.12	0.01	0.12

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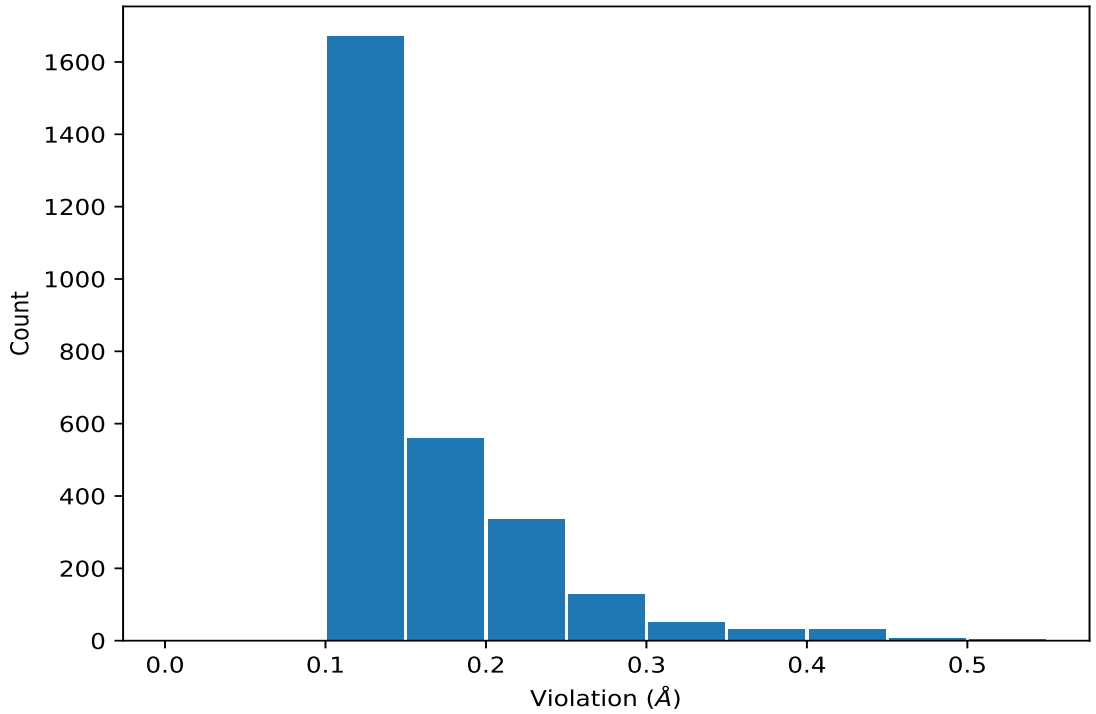
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,37)	1:36:A:LYS:H	1:36:A:LYS:HB3	2	0.12	0.01	0.12
(1,348)	1:60:A:THR:H	1:131:A:THR:HB	2	0.12	0.02	0.12
(1,118)	1:46:A:VAL:HG11	1:150:A:TRP:HZ2	2	0.12	0.01	0.12
(1,118)	1:46:A:VAL:HG12	1:150:A:TRP:HZ2	2	0.12	0.01	0.12
(1,118)	1:46:A:VAL:HG13	1:150:A:TRP:HZ2	2	0.12	0.01	0.12
(1,118)	1:46:A:VAL:HG21	1:150:A:TRP:HZ2	2	0.12	0.01	0.12
(1,118)	1:46:A:VAL:HG22	1:150:A:TRP:HZ2	2	0.12	0.01	0.12
(1,118)	1:46:A:VAL:HG23	1:150:A:TRP:HZ2	2	0.12	0.01	0.12
(1,600)	1:88:A:GLU:H	1:88:A:GLU:HB2	2	0.12	0.01	0.12
(1,600)	1:88:A:GLU:H	1:88:A:GLU:HB3	2	0.12	0.01	0.12
(1,617)	1:91:A:LYS:HB2	1:93:A:SER:H	2	0.12	0.0	0.12
(1,617)	1:91:A:LYS:HB3	1:93:A:SER:H	2	0.12	0.0	0.12
(1,628)	1:92:A:GLU:H	1:92:A:GLU:HB2	2	0.12	0.01	0.12
(1,628)	1:92:A:GLU:H	1:92:A:GLU:HB3	2	0.12	0.01	0.12
(1,1413)	1:168:A:LYS:H	1:168:A:LYS:HB2	2	0.12	0.0	0.12
(1,1413)	1:168:A:LYS:H	1:168:A:LYS:HB3	2	0.12	0.0	0.12
(1,374)	1:63:A:CYS:HA	1:129:A:ASP:H	2	0.11	0.0	0.11
(1,436)	1:66:A:CYS:H	1:69:A:HIS:HB2	2	0.11	0.0	0.11
(1,436)	1:66:A:CYS:H	1:69:A:HIS:HB3	2	0.11	0.0	0.11
(1,1072)	1:125:A:ASP:H	1:127:A:CYS:H	2	0.11	0.0	0.11
(1,1442)	1:43:A:PRO:HB2	1:46:A:VAL:HG11	2	0.11	0.01	0.11
(1,1442)	1:43:A:PRO:HB2	1:46:A:VAL:HG12	2	0.11	0.01	0.11
(1,1442)	1:43:A:PRO:HB2	1:46:A:VAL:HG13	2	0.11	0.01	0.11
(1,1287)	1:149:A:LYS:HE3	1:150:A:TRP:HE1	2	0.11	0.0	0.11
(1,417)	1:65:A:ILE:HG21	1:69:A:HIS:H	2	0.1	0.0	0.1
(1,417)	1:65:A:ILE:HG22	1:69:A:HIS:H	2	0.1	0.0	0.1
(1,417)	1:65:A:ILE:HG23	1:69:A:HIS:H	2	0.1	0.0	0.1
(1,625)	1:92:A:GLU:HB2	1:93:A:SER:HB2	2	0.1	0.0	0.1
(1,625)	1:92:A:GLU:HB2	1:93:A:SER:HB3	2	0.1	0.0	0.1
(1,625)	1:92:A:GLU:HB3	1:93:A:SER:HB2	2	0.1	0.0	0.1
(1,625)	1:92:A:GLU:HB3	1:93:A:SER:HB3	2	0.1	0.0	0.1
(1,1393)	1:166:A:VAL:HA	1:167:A:ASP:H	2	0.1	0.0	0.1

[1]Number of violated models, [2]Standard 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)
(1,717)	1:102:A:ILE:H	1:103:A:VAL:HA	19	0.53
(1,1405)	1:168:A:LYS:HA	1:168:A:LYS:HE2	18	0.5
(1,1405)	1:168:A:LYS:HA	1:168:A:LYS:HE3	18	0.5
(1,327)	1:56:A:LYS:H	1:56:A:LYS:HG2	10	0.5
(1,327)	1:56:A:LYS:H	1:56:A:LYS:HG3	10	0.5
(1,1210)	1:146:A:LEU:HA	1:146:A:LEU:HD11	9	0.48
(1,1210)	1:146:A:LEU:HA	1:146:A:LEU:HD12	9	0.48
(1,1210)	1:146:A:LEU:HA	1:146:A:LEU:HD13	9	0.48
(1,1210)	1:146:A:LEU:HA	1:146:A:LEU:HD21	9	0.48
(1,1210)	1:146:A:LEU:HA	1:146:A:LEU:HD22	9	0.48
(1,1210)	1:146:A:LEU:HA	1:146:A:LEU:HD23	9	0.48
(1,1356)	1:161:A:LYS:HA	1:162:A:ILE:H	9	0.46
(1,615)	1:91:A:LYS:HB2	1:92:A:GLU:HG2	15	0.44
(1,615)	1:91:A:LYS:HB2	1:92:A:GLU:HG3	15	0.44
(1,615)	1:91:A:LYS:HB3	1:92:A:GLU:HG2	15	0.44
(1,615)	1:91:A:LYS:HB3	1:92:A:GLU:HG3	15	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG11	11	0.42
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG12	11	0.42
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG13	11	0.42
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG21	11	0.42
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG22	11	0.42
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG23	11	0.42
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG11	19	0.42
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG12	19	0.42
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG13	19	0.42
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG21	19	0.42
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG22	19	0.42
(1,731)	1:103:A:VAL:H	1:103:A:VAL:HG23	19	0.42
(1,615)	1:91:A:LYS:HB2	1:92:A:GLU:HG2	7	0.42
(1,615)	1:91:A:LYS:HB2	1:92:A:GLU:HG3	7	0.42
(1,615)	1:91:A:LYS:HB3	1:92:A:GLU:HG2	7	0.42
(1,615)	1:91:A:LYS:HB3	1:92:A:GLU:HG3	7	0.42
(1,30)	1:34:A:ARG:H	1:34:A:ARG:HB2	19	0.42
(1,30)	1:34:A:ARG:H	1:34:A:ARG:HB3	19	0.42
(1,982)	1:118:A:GLU:H	1:121:A:ILE:HD11	15	0.41
(1,982)	1:118:A:GLU:H	1:121:A:ILE:HD12	15	0.41
(1,982)	1:118:A:GLU:H	1:121:A:ILE:HD13	15	0.41
(1,712)	1:102:A:ILE:HG21	1:104:A:ASP:H	19	0.41
(1,712)	1:102:A:ILE:HG22	1:104:A:ASP:H	19	0.41
(1,712)	1:102:A:ILE:HG23	1:104:A:ASP:H	19	0.41
(1,616)	1:91:A:LYS:HB2	1:92:A:GLU:H	11	0.41
(1,616)	1:91:A:LYS:HB3	1:92:A:GLU:H	11	0.41
(1,609)	1:90:A:ASP:HB2	1:93:A:SER:H	9	0.41
(1,609)	1:90:A:ASP:HB3	1:93:A:SER:H	9	0.41
(1,310)	1:55:A:ARG:H	1:56:A:LYS:HG2	10	0.39
(1,310)	1:55:A:ARG:H	1:56:A:LYS:HG3	10	0.39
(1,1407)	1:168:A:LYS:HA	1:169:A:ILE:H	4	0.37
(1,1361)	1:162:A:ILE:HA	1:163:A:GLN:H	5	0.37
(1,1361)	1:162:A:ILE:HA	1:163:A:GLN:H	14	0.37
(1,697)	1:101:A:ALA:HA	1:102:A:ILE:HD11	11	0.37
(1,697)	1:101:A:ALA:HA	1:102:A:ILE:HD12	11	0.37
(1,697)	1:101:A:ALA:HA	1:102:A:ILE:HD13	11	0.37
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	16	0.37
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	16	0.37
(1,64)	1:44:A:LEU:HD11	1:45:A:GLU:HA	8	0.37
(1,64)	1:44:A:LEU:HD12	1:45:A:GLU:HA	8	0.37
(1,64)	1:44:A:LEU:HD13	1:45:A:GLU:HA	8	0.37
(1,64)	1:44:A:LEU:HD21	1:45:A:GLU:HA	8	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,64)	1:44:A:LEU:HD22	1:45:A:GLU:HA	8	0.37
(1,64)	1:44:A:LEU:HD23	1:45:A:GLU:HA	8	0.37
(1,1520)	1:108:A:ILE:HD11	1:111:A:PHE:HD2	14	0.36
(1,1520)	1:108:A:ILE:HD12	1:111:A:PHE:HD2	14	0.36
(1,1520)	1:108:A:ILE:HD13	1:111:A:PHE:HD2	14	0.36
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD11	3	0.36
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD12	3	0.36
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD13	3	0.36
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD21	3	0.36
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD22	3	0.36
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD23	3	0.36
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD11	17	0.36
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD12	17	0.36
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD13	17	0.36
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD21	17	0.36
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD22	17	0.36
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD23	17	0.36
(1,1389)	1:165:A:GLN:HG2	1:167:A:ASP:H	19	0.35
(1,1389)	1:165:A:GLN:HG3	1:167:A:ASP:H	19	0.35
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE2	12	0.35
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE3	12	0.35
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	14	0.35
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	14	0.35
(1,598)	1:88:A:GLU:HG2	1:89:A:GLY:H	9	0.34
(1,598)	1:88:A:GLU:HG3	1:89:A:GLY:H	9	0.34
(1,535)	1:75:A:LYS:H	1:116:A:PRO:HB2	14	0.34
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG11	16	0.33
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG12	16	0.33
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG13	16	0.33
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG21	16	0.33
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG22	16	0.33
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG23	16	0.33
(1,598)	1:88:A:GLU:HG2	1:89:A:GLY:H	20	0.33
(1,598)	1:88:A:GLU:HG3	1:89:A:GLY:H	20	0.33
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	7	0.33
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	7	0.33
(1,64)	1:44:A:LEU:HD11	1:45:A:GLU:HA	13	0.33
(1,64)	1:44:A:LEU:HD12	1:45:A:GLU:HA	13	0.33
(1,64)	1:44:A:LEU:HD13	1:45:A:GLU:HA	13	0.33
(1,64)	1:44:A:LEU:HD21	1:45:A:GLU:HA	13	0.33
(1,64)	1:44:A:LEU:HD22	1:45:A:GLU:HA	13	0.33
(1,64)	1:44:A:LEU:HD23	1:45:A:GLU:HA	13	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1282)	1:149:A:LYS:HD2	1:150:A:TRP:HE3	18	0.32
(1,1282)	1:149:A:LYS:HD3	1:150:A:TRP:HE3	18	0.32
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD11	1	0.32
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD12	1	0.32
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD13	1	0.32
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD21	1	0.32
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD22	1	0.32
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD23	1	0.32
(1,645)	1:95:A:GLN:HA	1:97:A:GLY:H	8	0.32
(1,622)	1:91:A:LYS:H	1:92:A:GLU:H	6	0.32
(1,1356)	1:161:A:LYS:HA	1:162:A:ILE:H	3	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD11	10	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD12	10	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD13	10	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD21	10	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD22	10	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD23	10	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD11	18	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD12	18	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD13	18	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD21	18	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD22	18	0.31
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD23	18	0.31
(1,598)	1:88:A:GLU:HG2	1:89:A:GLY:H	15	0.31
(1,598)	1:88:A:GLU:HG3	1:89:A:GLY:H	15	0.31
(1,1494)	1:66:A:CYS:HA	1:124:A:VAL:H	5	0.3
(1,1430)	1:170:A:LYS:H	1:170:A:LYS:HG2	12	0.3
(1,1430)	1:170:A:LYS:H	1:170:A:LYS:HG3	12	0.3
(1,796)	1:105:A:ILE:H	1:123:A:GLN:HA	1	0.3
(1,597)	1:88:A:GLU:HB2	1:90:A:ASP:H	6	0.3
(1,597)	1:88:A:GLU:HB3	1:90:A:ASP:H	6	0.3
(1,589)	1:87:A:TYR:H	1:87:A:TYR:HD1	3	0.3
(1,589)	1:87:A:TYR:H	1:87:A:TYR:HD2	3	0.3
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	18	0.3
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	18	0.3
(1,1494)	1:66:A:CYS:HA	1:124:A:VAL:H	12	0.29
(1,1430)	1:170:A:LYS:H	1:170:A:LYS:HG2	3	0.29
(1,1430)	1:170:A:LYS:H	1:170:A:LYS:HG3	3	0.29
(1,1421)	1:169:A:ILE:HG21	1:170:A:LYS:H	14	0.29
(1,1421)	1:169:A:ILE:HG22	1:170:A:LYS:H	14	0.29
(1,1421)	1:169:A:ILE:HG23	1:170:A:LYS:H	14	0.29
(1,1382)	1:165:A:GLN:HA	1:166:A:VAL:HG11	19	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1382)	1:165:A:GLN:HA	1:166:A:VAL:HG12	19	0.29
(1,1382)	1:165:A:GLN:HA	1:166:A:VAL:HG13	19	0.29
(1,1382)	1:165:A:GLN:HA	1:166:A:VAL:HG21	19	0.29
(1,1382)	1:165:A:GLN:HA	1:166:A:VAL:HG22	19	0.29
(1,1382)	1:165:A:GLN:HA	1:166:A:VAL:HG23	19	0.29
(1,1344)	1:158:A:PHE:HA	1:159:A:ALA:H	19	0.29
(1,1334)	1:156:A:ALA:HB1	1:158:A:PHE:H	19	0.29
(1,1334)	1:156:A:ALA:HB2	1:158:A:PHE:H	19	0.29
(1,1334)	1:156:A:ALA:HB3	1:158:A:PHE:H	19	0.29
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD11	14	0.29
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD12	14	0.29
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD13	14	0.29
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD21	14	0.29
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD22	14	0.29
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD23	14	0.29
(1,1282)	1:149:A:LYS:HD2	1:150:A:TRP:HE3	6	0.29
(1,1282)	1:149:A:LYS:HD3	1:150:A:TRP:HE3	6	0.29
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD11	7	0.29
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD12	7	0.29
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD13	7	0.29
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD21	7	0.29
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD22	7	0.29
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD23	7	0.29
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE2	17	0.29
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE3	17	0.29
(1,529)	1:75:A:LYS:HB2	1:116:A:PRO:HB3	20	0.29
(1,529)	1:75:A:LYS:HB3	1:116:A:PRO:HB3	20	0.29
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	8	0.29
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	8	0.29
(1,1411)	1:168:A:LYS:HE2	1:169:A:ILE:H	20	0.28
(1,1411)	1:168:A:LYS:HE3	1:169:A:ILE:H	20	0.28
(1,1494)	1:66:A:CYS:HA	1:124:A:VAL:H	16	0.27
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD21	18	0.27
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD22	18	0.27
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD23	18	0.27
(1,1402)	1:167:A:ASP:H	1:167:A:ASP:HB2	10	0.27
(1,1402)	1:167:A:ASP:H	1:167:A:ASP:HB3	10	0.27
(1,1359)	1:161:A:LYS:H	1:161:A:LYS:HG2	12	0.27
(1,1359)	1:161:A:LYS:H	1:161:A:LYS:HG3	12	0.27
(1,1356)	1:161:A:LYS:HA	1:162:A:ILE:H	8	0.27
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD11	18	0.27
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD12	18	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD13	18	0.27
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD21	18	0.27
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD22	18	0.27
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD23	18	0.27
(1,633)	1:93:A:SER:HA	1:94:A:ALA:H	15	0.27
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	10	0.27
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	10	0.27
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	11	0.27
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	11	0.27
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	17	0.27
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	17	0.27
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	9	0.27
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	9	0.27
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	9	0.27
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD11	5	0.27
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD12	5	0.27
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD13	5	0.27
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD11	5	0.27
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD12	5	0.27
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD13	5	0.27
(1,88)	1:45:A:GLU:HG2	1:46:A:VAL:HA	13	0.27
(1,88)	1:45:A:GLU:HG3	1:46:A:VAL:HA	13	0.27
(1,1494)	1:66:A:CYS:HA	1:124:A:VAL:H	18	0.26
(1,1138)	1:132:A:THR:HB	1:133:A:GLY:H	18	0.26
(1,955)	1:117:A:MET:HE1	1:121:A:ILE:HD11	4	0.26
(1,955)	1:117:A:MET:HE1	1:121:A:ILE:HD12	4	0.26
(1,955)	1:117:A:MET:HE1	1:121:A:ILE:HD13	4	0.26
(1,955)	1:117:A:MET:HE2	1:121:A:ILE:HD11	4	0.26
(1,955)	1:117:A:MET:HE2	1:121:A:ILE:HD12	4	0.26
(1,955)	1:117:A:MET:HE2	1:121:A:ILE:HD13	4	0.26
(1,955)	1:117:A:MET:HE3	1:121:A:ILE:HD11	4	0.26
(1,955)	1:117:A:MET:HE3	1:121:A:ILE:HD12	4	0.26
(1,955)	1:117:A:MET:HE3	1:121:A:ILE:HD13	4	0.26
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE2	5	0.26
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE3	5	0.26
(1,796)	1:105:A:ILE:H	1:123:A:GLN:HA	13	0.26
(1,622)	1:91:A:LYS:H	1:92:A:GLU:H	9	0.26
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD11	16	0.26
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD12	16	0.26
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD13	16	0.26
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD11	16	0.26
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD12	16	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD13	16	0.26
(1,1494)	1:66:A:CYS:HA	1:124:A:VAL:H	15	0.25
(1,1421)	1:169:A:ILE:HG21	1:170:A:LYS:H	17	0.25
(1,1421)	1:169:A:ILE:HG22	1:170:A:LYS:H	17	0.25
(1,1421)	1:169:A:ILE:HG23	1:170:A:LYS:H	17	0.25
(1,1405)	1:168:A:LYS:HA	1:168:A:LYS:HE2	11	0.25
(1,1405)	1:168:A:LYS:HA	1:168:A:LYS:HE3	11	0.25
(1,1375)	1:163:A:GLN:H	1:163:A:GLN:HB2	8	0.25
(1,1375)	1:163:A:GLN:H	1:163:A:GLN:HB3	8	0.25
(1,1339)	1:157:A:THR:HA	1:158:A:PHE:H	14	0.25
(1,693)	1:100:A:GLU:H	1:100:A:GLU:HB2	2	0.25
(1,693)	1:100:A:GLU:H	1:100:A:GLU:HB3	2	0.25
(1,615)	1:91:A:LYS:HB2	1:92:A:GLU:HG2	11	0.25
(1,615)	1:91:A:LYS:HB2	1:92:A:GLU:HG3	11	0.25
(1,615)	1:91:A:LYS:HB3	1:92:A:GLU:HG2	11	0.25
(1,615)	1:91:A:LYS:HB3	1:92:A:GLU:HG3	11	0.25
(1,584)	1:87:A:TYR:HB2	1:88:A:GLU:H	10	0.25
(1,584)	1:87:A:TYR:HB3	1:88:A:GLU:H	10	0.25
(1,554)	1:76:A:MET:HE1	1:122:A:ALA:H	12	0.25
(1,554)	1:76:A:MET:HE2	1:122:A:ALA:H	12	0.25
(1,554)	1:76:A:MET:HE3	1:122:A:ALA:H	12	0.25
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	19	0.25
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	19	0.25
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	1	0.25
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	1	0.25
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	1	0.25
(1,351)	1:60:A:THR:H	1:63:A:CYS:HB3	7	0.25
(1,1494)	1:66:A:CYS:HA	1:124:A:VAL:H	3	0.24
(1,1404)	1:168:A:LYS:HA	1:168:A:LYS:HD2	6	0.24
(1,1404)	1:168:A:LYS:HA	1:168:A:LYS:HD3	6	0.24
(1,1404)	1:168:A:LYS:HA	1:168:A:LYS:HD2	15	0.24
(1,1404)	1:168:A:LYS:HA	1:168:A:LYS:HD3	15	0.24
(1,1323)	1:150:A:TRP:HZ2	1:162:A:ILE:HG12	8	0.24
(1,1323)	1:150:A:TRP:HZ2	1:162:A:ILE:HG13	8	0.24
(1,1095)	1:127:A:CYS:H	1:128:A:VAL:H	14	0.24
(1,1090)	1:127:A:CYS:HB2	1:130:A:CYS:H	5	0.24
(1,1090)	1:127:A:CYS:HB3	1:130:A:CYS:H	5	0.24
(1,693)	1:100:A:GLU:H	1:100:A:GLU:HB2	12	0.24
(1,693)	1:100:A:GLU:H	1:100:A:GLU:HB3	12	0.24
(1,691)	1:100:A:GLU:HG2	1:101:A:ALA:H	1	0.24
(1,691)	1:100:A:GLU:HG3	1:101:A:ALA:H	1	0.24
(1,608)	1:90:A:ASP:HB2	1:92:A:GLU:H	13	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,608)	1:90:A:ASP:HB3	1:92:A:GLU:H	13	0.24
(1,608)	1:90:A:ASP:HB2	1:92:A:GLU:H	17	0.24
(1,608)	1:90:A:ASP:HB3	1:92:A:GLU:H	17	0.24
(1,598)	1:88:A:GLU:HG2	1:89:A:GLY:H	13	0.24
(1,598)	1:88:A:GLU:HG3	1:89:A:GLY:H	13	0.24
(1,537)	1:75:A:LYS:H	1:76:A:MET:HB2	12	0.24
(1,537)	1:75:A:LYS:H	1:76:A:MET:HB3	12	0.24
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD11	2	0.24
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD12	2	0.24
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD13	2	0.24
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD21	2	0.24
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD22	2	0.24
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD23	2	0.24
(1,1525)	1:114:A:LEU:H	1:119:A:GLN:HG3	19	0.23
(1,1520)	1:108:A:ILE:HD11	1:111:A:PHE:HD2	16	0.23
(1,1520)	1:108:A:ILE:HD12	1:111:A:PHE:HD2	16	0.23
(1,1520)	1:108:A:ILE:HD13	1:111:A:PHE:HD2	16	0.23
(1,1494)	1:66:A:CYS:HA	1:124:A:VAL:H	6	0.23
(1,1483)	1:65:A:ILE:HG12	1:126:A:LEU:H	4	0.23
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD21	1	0.23
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD22	1	0.23
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD23	1	0.23
(1,1468)	1:59:A:CYS:HB3	1:64:A:LEU:H	2	0.23
(1,1468)	1:59:A:CYS:HB3	1:64:A:LEU:H	4	0.23
(1,1430)	1:170:A:LYS:H	1:170:A:LYS:HG2	14	0.23
(1,1430)	1:170:A:LYS:H	1:170:A:LYS:HG3	14	0.23
(1,1411)	1:168:A:LYS:HE2	1:169:A:ILE:H	10	0.23
(1,1411)	1:168:A:LYS:HE3	1:169:A:ILE:H	10	0.23
(1,1314)	1:150:A:TRP:HE3	1:162:A:ILE:HG21	19	0.23
(1,1314)	1:150:A:TRP:HE3	1:162:A:ILE:HG22	19	0.23
(1,1314)	1:150:A:TRP:HE3	1:162:A:ILE:HG23	19	0.23
(1,1166)	1:135:A:LEU:HD11	1:136:A:LYS:H	7	0.23
(1,1166)	1:135:A:LEU:HD12	1:136:A:LYS:H	7	0.23
(1,1166)	1:135:A:LEU:HD13	1:136:A:LYS:H	7	0.23
(1,1166)	1:135:A:LEU:HD21	1:136:A:LYS:H	7	0.23
(1,1166)	1:135:A:LEU:HD22	1:136:A:LYS:H	7	0.23
(1,1166)	1:135:A:LEU:HD23	1:136:A:LYS:H	7	0.23
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD11	10	0.23
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD12	10	0.23
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD13	10	0.23
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD21	10	0.23
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD22	10	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD23	10	0.23
(1,1095)	1:127:A:CYS:H	1:128:A:VAL:H	8	0.23
(1,1056)	1:124:A:VAL:HG11	1:127:A:CYS:H	14	0.23
(1,1056)	1:124:A:VAL:HG12	1:127:A:CYS:H	14	0.23
(1,1056)	1:124:A:VAL:HG13	1:127:A:CYS:H	14	0.23
(1,1052)	1:124:A:VAL:HB	1:127:A:CYS:H	4	0.23
(1,690)	1:100:A:GLU:HB2	1:101:A:ALA:H	2	0.23
(1,690)	1:100:A:GLU:HB3	1:101:A:ALA:H	2	0.23
(1,535)	1:75:A:LYS:H	1:116:A:PRO:HB2	7	0.23
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	1	0.23
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	1	0.23
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	2	0.23
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	2	0.23
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE1	14	0.23
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE2	14	0.23
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE3	14	0.23
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE1	14	0.23
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE2	14	0.23
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE3	14	0.23
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE1	14	0.23
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE2	14	0.23
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE3	14	0.23
(1,386)	1:63:A:CYS:HB2	1:64:A:LEU:H	18	0.23
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE1	7	0.23
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE2	7	0.23
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE3	7	0.23
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE1	13	0.23
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE2	13	0.23
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE3	13	0.23
(1,65)	1:44:A:LEU:HD11	1:45:A:GLU:HB2	13	0.23
(1,65)	1:44:A:LEU:HD11	1:45:A:GLU:HB3	13	0.23
(1,65)	1:44:A:LEU:HD12	1:45:A:GLU:HB2	13	0.23
(1,65)	1:44:A:LEU:HD12	1:45:A:GLU:HB3	13	0.23
(1,65)	1:44:A:LEU:HD13	1:45:A:GLU:HB2	13	0.23
(1,65)	1:44:A:LEU:HD13	1:45:A:GLU:HB3	13	0.23
(1,65)	1:44:A:LEU:HD21	1:45:A:GLU:HB2	13	0.23
(1,65)	1:44:A:LEU:HD21	1:45:A:GLU:HB3	13	0.23
(1,65)	1:44:A:LEU:HD22	1:45:A:GLU:HB2	13	0.23
(1,65)	1:44:A:LEU:HD22	1:45:A:GLU:HB3	13	0.23
(1,65)	1:44:A:LEU:HD23	1:45:A:GLU:HB2	13	0.23
(1,65)	1:44:A:LEU:HD23	1:45:A:GLU:HB3	13	0.23
(1,1461)	1:53:A:ASN:H	1:56:A:LYS:HB2	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1404)	1:168:A:LYS:HA	1:168:A:LYS:HD2	5	0.22
(1,1404)	1:168:A:LYS:HA	1:168:A:LYS:HD3	5	0.22
(1,1404)	1:168:A:LYS:HA	1:168:A:LYS:HD2	17	0.22
(1,1404)	1:168:A:LYS:HA	1:168:A:LYS:HD3	17	0.22
(1,1400)	1:166:A:VAL:H	1:167:A:ASP:H	7	0.22
(1,1339)	1:157:A:THR:HA	1:158:A:PHE:H	17	0.22
(1,1227)	1:146:A:LEU:HD11	1:150:A:TRP:HD1	5	0.22
(1,1227)	1:146:A:LEU:HD12	1:150:A:TRP:HD1	5	0.22
(1,1227)	1:146:A:LEU:HD13	1:150:A:TRP:HD1	5	0.22
(1,1227)	1:146:A:LEU:HD21	1:150:A:TRP:HD1	5	0.22
(1,1227)	1:146:A:LEU:HD22	1:150:A:TRP:HD1	5	0.22
(1,1227)	1:146:A:LEU:HD23	1:150:A:TRP:HD1	5	0.22
(1,1194)	1:141:A:VAL:HA	1:147:A:LEU:HD11	5	0.22
(1,1194)	1:141:A:VAL:HA	1:147:A:LEU:HD12	5	0.22
(1,1194)	1:141:A:VAL:HA	1:147:A:LEU:HD13	5	0.22
(1,959)	1:117:A:MET:HG2	1:120:A:PHE:H	15	0.22
(1,959)	1:117:A:MET:HG3	1:120:A:PHE:H	15	0.22
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD11	14	0.22
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD12	14	0.22
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD13	14	0.22
(1,796)	1:105:A:ILE:H	1:123:A:GLN:HA	15	0.22
(1,690)	1:100:A:GLU:HB2	1:101:A:ALA:H	12	0.22
(1,690)	1:100:A:GLU:HB3	1:101:A:ALA:H	12	0.22
(1,530)	1:75:A:LYS:HB2	1:116:A:PRO:HB2	15	0.22
(1,530)	1:75:A:LYS:HB3	1:116:A:PRO:HB2	15	0.22
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	6	0.22
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	6	0.22
(1,507)	1:71:A:LYS:HE2	1:104:A:ASP:H	10	0.22
(1,507)	1:71:A:LYS:HE3	1:104:A:ASP:H	10	0.22
(1,506)	1:71:A:LYS:HE2	1:103:A:VAL:H	12	0.22
(1,506)	1:71:A:LYS:HE3	1:103:A:VAL:H	12	0.22
(1,502)	1:71:A:LYS:HB2	1:103:A:VAL:HB	13	0.22
(1,502)	1:71:A:LYS:HB3	1:103:A:VAL:HB	13	0.22
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	18	0.22
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	18	0.22
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	18	0.22
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE1	1	0.22
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE2	1	0.22
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE3	1	0.22
(1,1542)	1:116:A:PRO:HA	1:119:A:GLN:HG3	20	0.21
(1,1494)	1:66:A:CYS:HA	1:124:A:VAL:H	1	0.21
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD21	12	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD22	12	0.21
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD23	12	0.21
(1,1404)	1:168:A:LYS:HA	1:168:A:LYS:HD2	13	0.21
(1,1404)	1:168:A:LYS:HA	1:168:A:LYS:HD3	13	0.21
(1,1389)	1:165:A:GLN:HG2	1:167:A:ASP:H	10	0.21
(1,1389)	1:165:A:GLN:HG3	1:167:A:ASP:H	10	0.21
(1,1330)	1:155:A:CYS:H	1:156:A:ALA:HA	15	0.21
(1,1323)	1:150:A:TRP:HZ2	1:162:A:ILE:HG12	19	0.21
(1,1323)	1:150:A:TRP:HZ2	1:162:A:ILE:HG13	19	0.21
(1,1264)	1:148:A:LYS:HD2	1:149:A:LYS:H	18	0.21
(1,1264)	1:148:A:LYS:HD3	1:149:A:LYS:H	18	0.21
(1,1204)	1:145:A:ASP:HA	1:148:A:LYS:HD2	5	0.21
(1,1204)	1:145:A:ASP:HA	1:148:A:LYS:HD3	5	0.21
(1,1118)	1:129:A:ASP:HB2	1:130:A:CYS:H	13	0.21
(1,1118)	1:129:A:ASP:HB3	1:130:A:CYS:H	13	0.21
(1,1096)	1:127:A:CYS:H	1:129:A:ASP:H	9	0.21
(1,1090)	1:127:A:CYS:HB2	1:130:A:CYS:H	7	0.21
(1,1090)	1:127:A:CYS:HB3	1:130:A:CYS:H	7	0.21
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD11	15	0.21
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD12	15	0.21
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD13	15	0.21
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD21	15	0.21
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD22	15	0.21
(1,1068)	1:125:A:ASP:HA	1:126:A:LEU:HD23	15	0.21
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE2	8	0.21
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE3	8	0.21
(1,830)	1:108:A:ILE:HD11	1:114:A:LEU:HG	5	0.21
(1,830)	1:108:A:ILE:HD12	1:114:A:LEU:HG	5	0.21
(1,830)	1:108:A:ILE:HD13	1:114:A:LEU:HG	5	0.21
(1,799)	1:106:A:PRO:HA	1:108:A:ILE:H	18	0.21
(1,727)	1:103:A:VAL:HG11	1:123:A:GLN:HA	14	0.21
(1,727)	1:103:A:VAL:HG12	1:123:A:GLN:HA	14	0.21
(1,727)	1:103:A:VAL:HG13	1:123:A:GLN:HA	14	0.21
(1,727)	1:103:A:VAL:HG21	1:123:A:GLN:HA	14	0.21
(1,727)	1:103:A:VAL:HG22	1:123:A:GLN:HA	14	0.21
(1,727)	1:103:A:VAL:HG23	1:123:A:GLN:HA	14	0.21
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD11	19	0.21
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD12	19	0.21
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD13	19	0.21
(1,658)	1:97:A:GLY:HA2	1:98:A:ILE:H	11	0.21
(1,658)	1:97:A:GLY:HA3	1:98:A:ILE:H	11	0.21
(1,584)	1:87:A:TYR:HB2	1:88:A:GLU:H	20	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,584)	1:87:A:TYR:HB3	1:88:A:GLU:H	20	0.21
(1,574)	1:78:A:LYS:H	1:78:A:LYS:HE2	1	0.21
(1,574)	1:78:A:LYS:H	1:78:A:LYS:HE3	1	0.21
(1,574)	1:78:A:LYS:H	1:78:A:LYS:HE2	12	0.21
(1,574)	1:78:A:LYS:H	1:78:A:LYS:HE3	12	0.21
(1,554)	1:76:A:MET:HE1	1:122:A:ALA:H	10	0.21
(1,554)	1:76:A:MET:HE2	1:122:A:ALA:H	10	0.21
(1,554)	1:76:A:MET:HE3	1:122:A:ALA:H	10	0.21
(1,535)	1:75:A:LYS:H	1:116:A:PRO:HB2	17	0.21
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	5	0.21
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	5	0.21
(1,507)	1:71:A:LYS:HE2	1:104:A:ASP:H	11	0.21
(1,507)	1:71:A:LYS:HE3	1:104:A:ASP:H	11	0.21
(1,502)	1:71:A:LYS:HB2	1:103:A:VAL:HB	1	0.21
(1,502)	1:71:A:LYS:HB3	1:103:A:VAL:HB	1	0.21
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	20	0.21
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	20	0.21
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	20	0.21
(1,1525)	1:114:A:LEU:H	1:119:A:GLN:HG3	18	0.2
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD21	15	0.2
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD22	15	0.2
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD23	15	0.2
(1,1429)	1:170:A:LYS:H	1:170:A:LYS:HB2	1	0.2
(1,1429)	1:170:A:LYS:H	1:170:A:LYS:HB3	1	0.2
(1,1421)	1:169:A:ILE:HG21	1:170:A:LYS:H	4	0.2
(1,1421)	1:169:A:ILE:HG22	1:170:A:LYS:H	4	0.2
(1,1421)	1:169:A:ILE:HG23	1:170:A:LYS:H	4	0.2
(1,1421)	1:169:A:ILE:HG21	1:170:A:LYS:H	12	0.2
(1,1421)	1:169:A:ILE:HG22	1:170:A:LYS:H	12	0.2
(1,1421)	1:169:A:ILE:HG23	1:170:A:LYS:H	12	0.2
(1,1421)	1:169:A:ILE:HG21	1:170:A:LYS:H	15	0.2
(1,1421)	1:169:A:ILE:HG22	1:170:A:LYS:H	15	0.2
(1,1421)	1:169:A:ILE:HG23	1:170:A:LYS:H	15	0.2
(1,1411)	1:168:A:LYS:HE2	1:169:A:ILE:H	11	0.2
(1,1411)	1:168:A:LYS:HE3	1:169:A:ILE:H	11	0.2
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG11	15	0.2
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG12	15	0.2
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG13	15	0.2
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG21	15	0.2
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG22	15	0.2
(1,1398)	1:166:A:VAL:H	1:166:A:VAL:HG23	15	0.2
(1,1386)	1:165:A:GLN:HB2	1:166:A:VAL:H	13	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1386)	1:165:A:GLN:HB3	1:166:A:VAL:H	13	0.2
(1,1375)	1:163:A:GLN:H	1:163:A:GLN:HB2	20	0.2
(1,1375)	1:163:A:GLN:H	1:163:A:GLN:HB3	20	0.2
(1,1339)	1:157:A:THR:HA	1:158:A:PHE:H	12	0.2
(1,1322)	1:150:A:TRP:H	1:162:A:ILE:HG21	10	0.2
(1,1322)	1:150:A:TRP:H	1:162:A:ILE:HG22	10	0.2
(1,1322)	1:150:A:TRP:H	1:162:A:ILE:HG23	10	0.2
(1,1264)	1:148:A:LYS:HD2	1:149:A:LYS:H	6	0.2
(1,1264)	1:148:A:LYS:HD3	1:149:A:LYS:H	6	0.2
(1,1264)	1:148:A:LYS:HD2	1:149:A:LYS:H	10	0.2
(1,1264)	1:148:A:LYS:HD3	1:149:A:LYS:H	10	0.2
(1,1227)	1:146:A:LEU:HD11	1:150:A:TRP:HD1	10	0.2
(1,1227)	1:146:A:LEU:HD12	1:150:A:TRP:HD1	10	0.2
(1,1227)	1:146:A:LEU:HD13	1:150:A:TRP:HD1	10	0.2
(1,1227)	1:146:A:LEU:HD21	1:150:A:TRP:HD1	10	0.2
(1,1227)	1:146:A:LEU:HD22	1:150:A:TRP:HD1	10	0.2
(1,1227)	1:146:A:LEU:HD23	1:150:A:TRP:HD1	10	0.2
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD11	3	0.2
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD12	3	0.2
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD13	3	0.2
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD11	3	0.2
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD12	3	0.2
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD13	3	0.2
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD11	17	0.2
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD12	17	0.2
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD13	17	0.2
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD11	17	0.2
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD12	17	0.2
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD13	17	0.2
(1,1182)	1:138:A:LEU:HB2	1:139:A:ALA:HB1	20	0.2
(1,1182)	1:138:A:LEU:HB2	1:139:A:ALA:HB2	20	0.2
(1,1182)	1:138:A:LEU:HB2	1:139:A:ALA:HB3	20	0.2
(1,1182)	1:138:A:LEU:HB3	1:139:A:ALA:HB1	20	0.2
(1,1182)	1:138:A:LEU:HB3	1:139:A:ALA:HB2	20	0.2
(1,1182)	1:138:A:LEU:HB3	1:139:A:ALA:HB3	20	0.2
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD11	1	0.2
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD12	1	0.2
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD13	1	0.2
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD21	1	0.2
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD22	1	0.2
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD23	1	0.2
(1,1096)	1:127:A:CYS:H	1:129:A:ASP:H	5	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1096)	1:127:A:CYS:H	1:129:A:ASP:H	6	0.2
(1,1095)	1:127:A:CYS:H	1:128:A:VAL:H	3	0.2
(1,1095)	1:127:A:CYS:H	1:128:A:VAL:H	4	0.2
(1,959)	1:117:A:MET:HG2	1:120:A:PHE:H	5	0.2
(1,959)	1:117:A:MET:HG3	1:120:A:PHE:H	5	0.2
(1,959)	1:117:A:MET:HG2	1:120:A:PHE:H	9	0.2
(1,959)	1:117:A:MET:HG3	1:120:A:PHE:H	9	0.2
(1,953)	1:117:A:MET:HE1	1:118:A:GLU:HA	7	0.2
(1,953)	1:117:A:MET:HE2	1:118:A:GLU:HA	7	0.2
(1,953)	1:117:A:MET:HE3	1:118:A:GLU:HA	7	0.2
(1,953)	1:117:A:MET:HE1	1:118:A:GLU:HA	12	0.2
(1,953)	1:117:A:MET:HE2	1:118:A:GLU:HA	12	0.2
(1,953)	1:117:A:MET:HE3	1:118:A:GLU:HA	12	0.2
(1,953)	1:117:A:MET:HE1	1:118:A:GLU:HA	16	0.2
(1,953)	1:117:A:MET:HE2	1:118:A:GLU:HA	16	0.2
(1,953)	1:117:A:MET:HE3	1:118:A:GLU:HA	16	0.2
(1,830)	1:108:A:ILE:HD11	1:114:A:LEU:HG	3	0.2
(1,830)	1:108:A:ILE:HD12	1:114:A:LEU:HG	3	0.2
(1,830)	1:108:A:ILE:HD13	1:114:A:LEU:HG	3	0.2
(1,799)	1:106:A:PRO:HA	1:108:A:ILE:H	9	0.2
(1,733)	1:103:A:VAL:H	1:104:A:ASP:HB2	11	0.2
(1,733)	1:103:A:VAL:H	1:104:A:ASP:HB3	11	0.2
(1,658)	1:97:A:GLY:HA2	1:98:A:ILE:H	8	0.2
(1,658)	1:97:A:GLY:HA3	1:98:A:ILE:H	8	0.2
(1,581)	1:86:A:THR:HG21	1:87:A:TYR:H	8	0.2
(1,581)	1:86:A:THR:HG22	1:87:A:TYR:H	8	0.2
(1,581)	1:86:A:THR:HG23	1:87:A:TYR:H	8	0.2
(1,554)	1:76:A:MET:HE1	1:122:A:ALA:H	6	0.2
(1,554)	1:76:A:MET:HE2	1:122:A:ALA:H	6	0.2
(1,554)	1:76:A:MET:HE3	1:122:A:ALA:H	6	0.2
(1,554)	1:76:A:MET:HE1	1:122:A:ALA:H	8	0.2
(1,554)	1:76:A:MET:HE2	1:122:A:ALA:H	8	0.2
(1,554)	1:76:A:MET:HE3	1:122:A:ALA:H	8	0.2
(1,535)	1:75:A:LYS:H	1:116:A:PRO:HB2	3	0.2
(1,535)	1:75:A:LYS:H	1:116:A:PRO:HB2	15	0.2
(1,517)	1:72:A:CYS:HB2	1:76:A:MET:H	9	0.2
(1,517)	1:72:A:CYS:HB3	1:76:A:MET:H	9	0.2
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	3	0.2
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	3	0.2
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	12	0.2
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	12	0.2
(1,508)	1:71:A:LYS:HE2	1:72:A:CYS:H	14	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,508)	1:71:A:LYS:HE3	1:72:A:CYS:H	14	0.2
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE1	16	0.2
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE2	16	0.2
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE3	16	0.2
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE1	16	0.2
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE2	16	0.2
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE3	16	0.2
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE1	16	0.2
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE2	16	0.2
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE3	16	0.2
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	19	0.2
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	19	0.2
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	19	0.2
(1,386)	1:63:A:CYS:HB2	1:64:A:LEU:H	1	0.2
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD11	12	0.2
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD12	12	0.2
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD13	12	0.2
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD11	12	0.2
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD12	12	0.2
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD13	12	0.2
(1,351)	1:60:A:THR:H	1:63:A:CYS:HB3	5	0.2
(1,346)	1:59:A:CYS:HA	1:134:A:CYS:H	8	0.2
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD11	18	0.2
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD12	18	0.2
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD13	18	0.2
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD21	18	0.2
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD22	18	0.2
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD23	18	0.2
(1,1525)	1:114:A:LEU:H	1:119:A:GLN:HG3	6	0.19
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD11	6	0.19
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD12	6	0.19
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD13	6	0.19
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD11	6	0.19
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD12	6	0.19
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD13	6	0.19
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD11	8	0.19
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD12	8	0.19
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD13	8	0.19
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD11	8	0.19
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD12	8	0.19
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD13	8	0.19
(1,1494)	1:66:A:CYS:HA	1:124:A:VAL:H	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1489)	1:65:A:ILE:HG13	1:127:A:CYS:H	10	0.19
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD21	16	0.19
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD22	16	0.19
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD23	16	0.19
(1,1468)	1:59:A:CYS:HB3	1:64:A:LEU:H	6	0.19
(1,1468)	1:59:A:CYS:HB3	1:64:A:LEU:H	11	0.19
(1,1468)	1:59:A:CYS:HB3	1:64:A:LEU:H	17	0.19
(1,1429)	1:170:A:LYS:H	1:170:A:LYS:HB2	19	0.19
(1,1429)	1:170:A:LYS:H	1:170:A:LYS:HB3	19	0.19
(1,1421)	1:169:A:ILE:HG21	1:170:A:LYS:H	5	0.19
(1,1421)	1:169:A:ILE:HG22	1:170:A:LYS:H	5	0.19
(1,1421)	1:169:A:ILE:HG23	1:170:A:LYS:H	5	0.19
(1,1421)	1:169:A:ILE:HG21	1:170:A:LYS:H	6	0.19
(1,1421)	1:169:A:ILE:HG22	1:170:A:LYS:H	6	0.19
(1,1421)	1:169:A:ILE:HG23	1:170:A:LYS:H	6	0.19
(1,1405)	1:168:A:LYS:HA	1:168:A:LYS:HE2	2	0.19
(1,1405)	1:168:A:LYS:HA	1:168:A:LYS:HE3	2	0.19
(1,1404)	1:168:A:LYS:HA	1:168:A:LYS:HD2	14	0.19
(1,1404)	1:168:A:LYS:HA	1:168:A:LYS:HD3	14	0.19
(1,1397)	1:166:A:VAL:H	1:166:A:VAL:HB	11	0.19
(1,1312)	1:150:A:TRP:HE1	1:162:A:ILE:HG21	7	0.19
(1,1312)	1:150:A:TRP:HE1	1:162:A:ILE:HG22	7	0.19
(1,1312)	1:150:A:TRP:HE1	1:162:A:ILE:HG23	7	0.19
(1,1227)	1:146:A:LEU:HD11	1:150:A:TRP:HD1	12	0.19
(1,1227)	1:146:A:LEU:HD12	1:150:A:TRP:HD1	12	0.19
(1,1227)	1:146:A:LEU:HD13	1:150:A:TRP:HD1	12	0.19
(1,1227)	1:146:A:LEU:HD21	1:150:A:TRP:HD1	12	0.19
(1,1227)	1:146:A:LEU:HD22	1:150:A:TRP:HD1	12	0.19
(1,1227)	1:146:A:LEU:HD23	1:150:A:TRP:HD1	12	0.19
(1,1227)	1:146:A:LEU:HD11	1:150:A:TRP:HD1	19	0.19
(1,1227)	1:146:A:LEU:HD12	1:150:A:TRP:HD1	19	0.19
(1,1227)	1:146:A:LEU:HD13	1:150:A:TRP:HD1	19	0.19
(1,1227)	1:146:A:LEU:HD21	1:150:A:TRP:HD1	19	0.19
(1,1227)	1:146:A:LEU:HD22	1:150:A:TRP:HD1	19	0.19
(1,1227)	1:146:A:LEU:HD23	1:150:A:TRP:HD1	19	0.19
(1,1096)	1:127:A:CYS:H	1:129:A:ASP:H	17	0.19
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG21	8	0.19
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG22	8	0.19
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG23	8	0.19
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG21	14	0.19
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG22	14	0.19
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG23	14	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1080)	1:126:A:LEU:H	1:126:A:LEU:HB3	1	0.19
(1,1080)	1:126:A:LEU:H	1:126:A:LEU:HB3	17	0.19
(1,1052)	1:124:A:VAL:HB	1:127:A:CYS:H	5	0.19
(1,959)	1:117:A:MET:HG2	1:120:A:PHE:H	3	0.19
(1,959)	1:117:A:MET:HG3	1:120:A:PHE:H	3	0.19
(1,948)	1:117:A:MET:HA	1:117:A:MET:HE1	7	0.19
(1,948)	1:117:A:MET:HA	1:117:A:MET:HE2	7	0.19
(1,948)	1:117:A:MET:HA	1:117:A:MET:HE3	7	0.19
(1,948)	1:117:A:MET:HA	1:117:A:MET:HE1	12	0.19
(1,948)	1:117:A:MET:HA	1:117:A:MET:HE2	12	0.19
(1,948)	1:117:A:MET:HA	1:117:A:MET:HE3	12	0.19
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD11	2	0.19
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD12	2	0.19
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD13	2	0.19
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD11	17	0.19
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD12	17	0.19
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD13	17	0.19
(1,830)	1:108:A:ILE:HD11	1:114:A:LEU:HG	16	0.19
(1,830)	1:108:A:ILE:HD12	1:114:A:LEU:HG	16	0.19
(1,830)	1:108:A:ILE:HD13	1:114:A:LEU:HG	16	0.19
(1,799)	1:106:A:PRO:HA	1:108:A:ILE:H	1	0.19
(1,799)	1:106:A:PRO:HA	1:108:A:ILE:H	6	0.19
(1,799)	1:106:A:PRO:HA	1:108:A:ILE:H	10	0.19
(1,799)	1:106:A:PRO:HA	1:108:A:ILE:H	11	0.19
(1,799)	1:106:A:PRO:HA	1:108:A:ILE:H	20	0.19
(1,732)	1:103:A:VAL:H	1:104:A:ASP:HA	11	0.19
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD11	4	0.19
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD12	4	0.19
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD13	4	0.19
(1,682)	1:99:A:GLY:HA2	1:100:A:GLU:HG2	18	0.19
(1,682)	1:99:A:GLY:HA2	1:100:A:GLU:HG3	18	0.19
(1,682)	1:99:A:GLY:HA3	1:100:A:GLU:HG2	18	0.19
(1,682)	1:99:A:GLY:HA3	1:100:A:GLU:HG3	18	0.19
(1,592)	1:88:A:GLU:HA	1:89:A:GLY:H	2	0.19
(1,592)	1:88:A:GLU:HA	1:89:A:GLY:H	7	0.19
(1,592)	1:88:A:GLU:HA	1:89:A:GLY:H	19	0.19
(1,580)	1:86:A:THR:HG21	1:87:A:TYR:HD1	5	0.19
(1,580)	1:86:A:THR:HG21	1:87:A:TYR:HD2	5	0.19
(1,580)	1:86:A:THR:HG22	1:87:A:TYR:HD1	5	0.19
(1,580)	1:86:A:THR:HG22	1:87:A:TYR:HD2	5	0.19
(1,580)	1:86:A:THR:HG23	1:87:A:TYR:HD1	5	0.19
(1,580)	1:86:A:THR:HG23	1:87:A:TYR:HD2	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,554)	1:76:A:MET:HE1	1:122:A:ALA:H	7	0.19
(1,554)	1:76:A:MET:HE2	1:122:A:ALA:H	7	0.19
(1,554)	1:76:A:MET:HE3	1:122:A:ALA:H	7	0.19
(1,554)	1:76:A:MET:HE1	1:122:A:ALA:H	11	0.19
(1,554)	1:76:A:MET:HE2	1:122:A:ALA:H	11	0.19
(1,554)	1:76:A:MET:HE3	1:122:A:ALA:H	11	0.19
(1,554)	1:76:A:MET:HE1	1:122:A:ALA:H	19	0.19
(1,554)	1:76:A:MET:HE2	1:122:A:ALA:H	19	0.19
(1,554)	1:76:A:MET:HE3	1:122:A:ALA:H	19	0.19
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	4	0.19
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	4	0.19
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE1	12	0.19
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE2	12	0.19
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE3	12	0.19
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE1	12	0.19
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE2	12	0.19
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE3	12	0.19
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE1	12	0.19
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE2	12	0.19
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE3	12	0.19
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	16	0.19
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	16	0.19
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	16	0.19
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD11	19	0.19
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD12	19	0.19
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD13	19	0.19
(1,415)	1:65:A:ILE:HG21	1:68:A:SER:HA	7	0.19
(1,415)	1:65:A:ILE:HG22	1:68:A:SER:HA	7	0.19
(1,415)	1:65:A:ILE:HG23	1:68:A:SER:HA	7	0.19
(1,369)	1:62:A:GLY:HA2	1:65:A:ILE:H	5	0.19
(1,364)	1:61:A:ARG:HG2	1:62:A:GLY:H	5	0.19
(1,364)	1:61:A:ARG:HG3	1:62:A:GLY:H	5	0.19
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD11	18	0.19
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD12	18	0.19
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD13	18	0.19
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD11	18	0.19
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD12	18	0.19
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD13	18	0.19
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD11	8	0.19
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD12	8	0.19
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD13	8	0.19
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD21	8	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD22	8	0.19
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD23	8	0.19
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD11	10	0.19
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD12	10	0.19
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD13	10	0.19
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD21	10	0.19
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD22	10	0.19
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD23	10	0.19
(1,64)	1:44:A:LEU:HD11	1:45:A:GLU:HA	16	0.19
(1,64)	1:44:A:LEU:HD12	1:45:A:GLU:HA	16	0.19
(1,64)	1:44:A:LEU:HD13	1:45:A:GLU:HA	16	0.19
(1,64)	1:44:A:LEU:HD21	1:45:A:GLU:HA	16	0.19
(1,64)	1:44:A:LEU:HD22	1:45:A:GLU:HA	16	0.19
(1,64)	1:44:A:LEU:HD23	1:45:A:GLU:HA	16	0.19
(1,34)	1:35:A:GLY:H	1:36:A:LYS:HA	17	0.19
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD11	11	0.18
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD12	11	0.18
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD13	11	0.18
(1,1517)	1:108:A:ILE:HG21	1:122:A:ALA:HA	6	0.18
(1,1517)	1:108:A:ILE:HG22	1:122:A:ALA:HA	6	0.18
(1,1517)	1:108:A:ILE:HG23	1:122:A:ALA:HA	6	0.18
(1,1517)	1:108:A:ILE:HG21	1:122:A:ALA:HA	9	0.18
(1,1517)	1:108:A:ILE:HG22	1:122:A:ALA:HA	9	0.18
(1,1517)	1:108:A:ILE:HG23	1:122:A:ALA:HA	9	0.18
(1,1511)	1:103:A:VAL:HB	1:111:A:PHE:HE2	19	0.18
(1,1483)	1:65:A:ILE:HG12	1:126:A:LEU:H	6	0.18
(1,1429)	1:170:A:LYS:H	1:170:A:LYS:HB2	8	0.18
(1,1429)	1:170:A:LYS:H	1:170:A:LYS:HB3	8	0.18
(1,1405)	1:168:A:LYS:HA	1:168:A:LYS:HE2	3	0.18
(1,1405)	1:168:A:LYS:HA	1:168:A:LYS:HE3	3	0.18
(1,1405)	1:168:A:LYS:HA	1:168:A:LYS:HE2	7	0.18
(1,1405)	1:168:A:LYS:HA	1:168:A:LYS:HE3	7	0.18
(1,1405)	1:168:A:LYS:HA	1:168:A:LYS:HE2	16	0.18
(1,1405)	1:168:A:LYS:HA	1:168:A:LYS:HE3	16	0.18
(1,1372)	1:163:A:GLN:HA	1:164:A:GLY:H	6	0.18
(1,1372)	1:163:A:GLN:HA	1:164:A:GLY:H	14	0.18
(1,1351)	1:160:A:SER:HA	1:161:A:LYS:H	12	0.18
(1,1346)	1:158:A:PHE:H	1:158:A:PHE:HB2	2	0.18
(1,1346)	1:158:A:PHE:H	1:158:A:PHE:HB3	2	0.18
(1,1330)	1:155:A:CYS:H	1:156:A:ALA:HA	6	0.18
(1,1330)	1:155:A:CYS:H	1:156:A:ALA:HA	14	0.18
(1,1330)	1:155:A:CYS:H	1:156:A:ALA:HA	16	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1323)	1:150:A:TRP:HZ2	1:162:A:ILE:HG12	5	0.18
(1,1323)	1:150:A:TRP:HZ2	1:162:A:ILE:HG13	5	0.18
(1,1314)	1:150:A:TRP:HE3	1:162:A:ILE:HG21	5	0.18
(1,1314)	1:150:A:TRP:HE3	1:162:A:ILE:HG22	5	0.18
(1,1314)	1:150:A:TRP:HE3	1:162:A:ILE:HG23	5	0.18
(1,1227)	1:146:A:LEU:HD11	1:150:A:TRP:HD1	3	0.18
(1,1227)	1:146:A:LEU:HD12	1:150:A:TRP:HD1	3	0.18
(1,1227)	1:146:A:LEU:HD13	1:150:A:TRP:HD1	3	0.18
(1,1227)	1:146:A:LEU:HD21	1:150:A:TRP:HD1	3	0.18
(1,1227)	1:146:A:LEU:HD22	1:150:A:TRP:HD1	3	0.18
(1,1227)	1:146:A:LEU:HD23	1:150:A:TRP:HD1	3	0.18
(1,1096)	1:127:A:CYS:H	1:129:A:ASP:H	4	0.18
(1,1096)	1:127:A:CYS:H	1:129:A:ASP:H	8	0.18
(1,1095)	1:127:A:CYS:H	1:128:A:VAL:H	17	0.18
(1,948)	1:117:A:MET:HA	1:117:A:MET:HE1	16	0.18
(1,948)	1:117:A:MET:HA	1:117:A:MET:HE2	16	0.18
(1,948)	1:117:A:MET:HA	1:117:A:MET:HE3	16	0.18
(1,900)	1:113:A:ASP:H	1:114:A:LEU:HG	11	0.18
(1,900)	1:113:A:ASP:H	1:114:A:LEU:HG	20	0.18
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD11	3	0.18
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD12	3	0.18
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD13	3	0.18
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD11	4	0.18
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD12	4	0.18
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD13	4	0.18
(1,799)	1:106:A:PRO:HA	1:108:A:ILE:H	13	0.18
(1,693)	1:100:A:GLU:H	1:100:A:GLU:HB2	13	0.18
(1,693)	1:100:A:GLU:H	1:100:A:GLU:HB3	13	0.18
(1,608)	1:90:A:ASP:HB2	1:92:A:GLU:H	20	0.18
(1,608)	1:90:A:ASP:HB3	1:92:A:GLU:H	20	0.18
(1,592)	1:88:A:GLU:HA	1:89:A:GLY:H	4	0.18
(1,592)	1:88:A:GLU:HA	1:89:A:GLY:H	18	0.18
(1,584)	1:87:A:TYR:HB2	1:88:A:GLU:H	2	0.18
(1,584)	1:87:A:TYR:HB3	1:88:A:GLU:H	2	0.18
(1,584)	1:87:A:TYR:HB2	1:88:A:GLU:H	17	0.18
(1,584)	1:87:A:TYR:HB3	1:88:A:GLU:H	17	0.18
(1,515)	1:72:A:CYS:HB2	1:75:A:LYS:H	13	0.18
(1,515)	1:72:A:CYS:HB3	1:75:A:LYS:H	13	0.18
(1,502)	1:71:A:LYS:HB2	1:103:A:VAL:HB	10	0.18
(1,502)	1:71:A:LYS:HB3	1:103:A:VAL:HB	10	0.18
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE1	13	0.18
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE2	13	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE3	13	0.18
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE1	13	0.18
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE2	13	0.18
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE3	13	0.18
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE1	13	0.18
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE2	13	0.18
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE3	13	0.18
(1,386)	1:63:A:CYS:HB2	1:64:A:LEU:H	15	0.18
(1,326)	1:56:A:LYS:H	1:56:A:LYS:HD2	10	0.18
(1,326)	1:56:A:LYS:H	1:56:A:LYS:HD3	10	0.18
(1,235)	1:50:A:MET:HE1	1:147:A:LEU:HA	16	0.18
(1,235)	1:50:A:MET:HE2	1:147:A:LEU:HA	16	0.18
(1,235)	1:50:A:MET:HE3	1:147:A:LEU:HA	16	0.18
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD11	7	0.18
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD12	7	0.18
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD13	7	0.18
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD21	7	0.18
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD22	7	0.18
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD23	7	0.18
(1,89)	1:45:A:GLU:HG2	1:46:A:VAL:HG11	13	0.18
(1,89)	1:45:A:GLU:HG2	1:46:A:VAL:HG12	13	0.18
(1,89)	1:45:A:GLU:HG2	1:46:A:VAL:HG13	13	0.18
(1,89)	1:45:A:GLU:HG2	1:46:A:VAL:HG21	13	0.18
(1,89)	1:45:A:GLU:HG2	1:46:A:VAL:HG22	13	0.18
(1,89)	1:45:A:GLU:HG2	1:46:A:VAL:HG23	13	0.18
(1,89)	1:45:A:GLU:HG3	1:46:A:VAL:HG11	13	0.18
(1,89)	1:45:A:GLU:HG3	1:46:A:VAL:HG12	13	0.18
(1,89)	1:45:A:GLU:HG3	1:46:A:VAL:HG13	13	0.18
(1,89)	1:45:A:GLU:HG3	1:46:A:VAL:HG21	13	0.18
(1,89)	1:45:A:GLU:HG3	1:46:A:VAL:HG22	13	0.18
(1,89)	1:45:A:GLU:HG3	1:46:A:VAL:HG23	13	0.18
(1,39)	1:37:A:LEU:H	1:37:A:LEU:HB2	12	0.18
(1,39)	1:37:A:LEU:H	1:37:A:LEU:HB3	12	0.18
(1,1517)	1:108:A:ILE:HG21	1:122:A:ALA:HA	18	0.17
(1,1517)	1:108:A:ILE:HG22	1:122:A:ALA:HA	18	0.17
(1,1517)	1:108:A:ILE:HG23	1:122:A:ALA:HA	18	0.17
(1,1513)	1:103:A:VAL:HG11	1:111:A:PHE:HE2	20	0.17
(1,1513)	1:103:A:VAL:HG12	1:111:A:PHE:HE2	20	0.17
(1,1513)	1:103:A:VAL:HG13	1:111:A:PHE:HE2	20	0.17
(1,1513)	1:103:A:VAL:HG21	1:111:A:PHE:HE2	20	0.17
(1,1513)	1:103:A:VAL:HG22	1:111:A:PHE:HE2	20	0.17
(1,1513)	1:103:A:VAL:HG23	1:111:A:PHE:HE2	20	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD21	6	0.17
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD22	6	0.17
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD23	6	0.17
(1,1468)	1:59:A:CYS:HB3	1:64:A:LEU:H	9	0.17
(1,1468)	1:59:A:CYS:HB3	1:64:A:LEU:H	19	0.17
(1,1453)	1:50:A:MET:HG2	1:141:A:VAL:HG11	14	0.17
(1,1453)	1:50:A:MET:HG2	1:141:A:VAL:HG12	14	0.17
(1,1453)	1:50:A:MET:HG2	1:141:A:VAL:HG13	14	0.17
(1,1453)	1:50:A:MET:HG3	1:141:A:VAL:HG11	14	0.17
(1,1453)	1:50:A:MET:HG3	1:141:A:VAL:HG12	14	0.17
(1,1453)	1:50:A:MET:HG3	1:141:A:VAL:HG13	14	0.17
(1,1441)	1:31:A:ASP:HB2	1:35:A:GLY:H	7	0.17
(1,1441)	1:31:A:ASP:HB3	1:35:A:GLY:H	7	0.17
(1,1418)	1:169:A:ILE:HB	1:170:A:LYS:H	20	0.17
(1,1394)	1:166:A:VAL:HA	1:168:A:LYS:H	8	0.17
(1,1372)	1:163:A:GLN:HA	1:164:A:GLY:H	2	0.17
(1,1372)	1:163:A:GLN:HA	1:164:A:GLY:H	19	0.17
(1,1346)	1:158:A:PHE:H	1:158:A:PHE:HB2	4	0.17
(1,1346)	1:158:A:PHE:H	1:158:A:PHE:HB3	4	0.17
(1,1346)	1:158:A:PHE:H	1:158:A:PHE:HB2	5	0.17
(1,1346)	1:158:A:PHE:H	1:158:A:PHE:HB3	5	0.17
(1,1346)	1:158:A:PHE:H	1:158:A:PHE:HB2	13	0.17
(1,1346)	1:158:A:PHE:H	1:158:A:PHE:HB3	13	0.17
(1,1334)	1:156:A:ALA:HB1	1:158:A:PHE:H	6	0.17
(1,1334)	1:156:A:ALA:HB2	1:158:A:PHE:H	6	0.17
(1,1334)	1:156:A:ALA:HB3	1:158:A:PHE:H	6	0.17
(1,1299)	1:149:A:LYS:H	1:149:A:LYS:HE3	6	0.17
(1,1227)	1:146:A:LEU:HD11	1:150:A:TRP:HD1	17	0.17
(1,1227)	1:146:A:LEU:HD12	1:150:A:TRP:HD1	17	0.17
(1,1227)	1:146:A:LEU:HD13	1:150:A:TRP:HD1	17	0.17
(1,1227)	1:146:A:LEU:HD21	1:150:A:TRP:HD1	17	0.17
(1,1227)	1:146:A:LEU:HD22	1:150:A:TRP:HD1	17	0.17
(1,1227)	1:146:A:LEU:HD23	1:150:A:TRP:HD1	17	0.17
(1,1118)	1:129:A:ASP:HB2	1:130:A:CYS:H	10	0.17
(1,1118)	1:129:A:ASP:HB3	1:130:A:CYS:H	10	0.17
(1,1080)	1:126:A:LEU:H	1:126:A:LEU:HB3	3	0.17
(1,1080)	1:126:A:LEU:H	1:126:A:LEU:HB3	7	0.17
(1,1080)	1:126:A:LEU:H	1:126:A:LEU:HB3	10	0.17
(1,1080)	1:126:A:LEU:H	1:126:A:LEU:HB3	18	0.17
(1,900)	1:113:A:ASP:H	1:114:A:LEU:HG	1	0.17
(1,900)	1:113:A:ASP:H	1:114:A:LEU:HG	6	0.17
(1,900)	1:113:A:ASP:H	1:114:A:LEU:HG	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,900)	1:113:A:ASP:H	1:114:A:LEU:HG	19	0.17
(1,830)	1:108:A:ILE:HD11	1:114:A:LEU:HG	4	0.17
(1,830)	1:108:A:ILE:HD12	1:114:A:LEU:HG	4	0.17
(1,830)	1:108:A:ILE:HD13	1:114:A:LEU:HG	4	0.17
(1,799)	1:106:A:PRO:HA	1:108:A:ILE:H	19	0.17
(1,733)	1:103:A:VAL:H	1:104:A:ASP:HB2	16	0.17
(1,733)	1:103:A:VAL:H	1:104:A:ASP:HB3	16	0.17
(1,727)	1:103:A:VAL:HG11	1:123:A:GLN:HA	9	0.17
(1,727)	1:103:A:VAL:HG12	1:123:A:GLN:HA	9	0.17
(1,727)	1:103:A:VAL:HG13	1:123:A:GLN:HA	9	0.17
(1,727)	1:103:A:VAL:HG21	1:123:A:GLN:HA	9	0.17
(1,727)	1:103:A:VAL:HG22	1:123:A:GLN:HA	9	0.17
(1,727)	1:103:A:VAL:HG23	1:123:A:GLN:HA	9	0.17
(1,711)	1:102:A:ILE:HG21	1:103:A:VAL:H	20	0.17
(1,711)	1:102:A:ILE:HG22	1:103:A:VAL:H	20	0.17
(1,711)	1:102:A:ILE:HG23	1:103:A:VAL:H	20	0.17
(1,707)	1:102:A:ILE:HB	1:103:A:VAL:H	10	0.17
(1,697)	1:101:A:ALA:HA	1:102:A:ILE:HD11	13	0.17
(1,697)	1:101:A:ALA:HA	1:102:A:ILE:HD12	13	0.17
(1,697)	1:101:A:ALA:HA	1:102:A:ILE:HD13	13	0.17
(1,638)	1:93:A:SER:H	1:94:A:ALA:HA	5	0.17
(1,638)	1:93:A:SER:H	1:94:A:ALA:HA	7	0.17
(1,620)	1:91:A:LYS:H	1:91:A:LYS:HD2	9	0.17
(1,620)	1:91:A:LYS:H	1:91:A:LYS:HD3	9	0.17
(1,592)	1:88:A:GLU:HA	1:89:A:GLY:H	5	0.17
(1,592)	1:88:A:GLU:HA	1:89:A:GLY:H	14	0.17
(1,589)	1:87:A:TYR:H	1:87:A:TYR:HD1	5	0.17
(1,589)	1:87:A:TYR:H	1:87:A:TYR:HD2	5	0.17
(1,530)	1:75:A:LYS:HB2	1:116:A:PRO:HB2	2	0.17
(1,530)	1:75:A:LYS:HB3	1:116:A:PRO:HB2	2	0.17
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE1	7	0.17
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE2	7	0.17
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE3	7	0.17
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE1	7	0.17
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE2	7	0.17
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE3	7	0.17
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE1	7	0.17
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE2	7	0.17
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE3	7	0.17
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	11	0.17
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	11	0.17
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,369)	1:62:A:GLY:HA2	1:65:A:ILE:H	1	0.17
(1,352)	1:60:A:THR:H	1:63:A:CYS:HB2	4	0.17
(1,277)	1:52:A:ALA:H	1:53:A:ASN:HB2	14	0.17
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD11	14	0.17
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD12	14	0.17
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD13	14	0.17
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD21	14	0.17
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD22	14	0.17
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD23	14	0.17
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG21	16	0.17
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG22	16	0.17
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG23	16	0.17
(1,47)	1:43:A:PRO:HB3	1:45:A:GLU:H	2	0.17
(1,9)	1:31:A:ASP:H	1:34:A:ARG:HG2	19	0.17
(1,9)	1:31:A:ASP:H	1:34:A:ARG:HG3	19	0.17
(1,1557)	1:142:A:GLN:H	1:147:A:LEU:HD11	5	0.16
(1,1557)	1:142:A:GLN:H	1:147:A:LEU:HD12	5	0.16
(1,1557)	1:142:A:GLN:H	1:147:A:LEU:HD13	5	0.16
(1,1557)	1:142:A:GLN:H	1:147:A:LEU:HD21	5	0.16
(1,1557)	1:142:A:GLN:H	1:147:A:LEU:HD22	5	0.16
(1,1557)	1:142:A:GLN:H	1:147:A:LEU:HD23	5	0.16
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD11	1	0.16
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD12	1	0.16
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD13	1	0.16
(1,1511)	1:103:A:VAL:HB	1:111:A:PHE:HE2	6	0.16
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD11	7	0.16
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD12	7	0.16
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD13	7	0.16
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD11	7	0.16
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD12	7	0.16
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD13	7	0.16
(1,1483)	1:65:A:ILE:HG12	1:126:A:LEU:H	12	0.16
(1,1483)	1:65:A:ILE:HG12	1:126:A:LEU:H	19	0.16
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD21	3	0.16
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD22	3	0.16
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD23	3	0.16
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD21	4	0.16
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD22	4	0.16
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD23	4	0.16
(1,1468)	1:59:A:CYS:HB3	1:64:A:LEU:H	10	0.16
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD11	10	0.16
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD12	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD13	10	0.16
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD21	10	0.16
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD22	10	0.16
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD23	10	0.16
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD11	10	0.16
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD12	10	0.16
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD13	10	0.16
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD21	10	0.16
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD22	10	0.16
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD23	10	0.16
(1,1455)	1:51:A:GLU:HB2	1:54:A:ALA:H	16	0.16
(1,1453)	1:50:A:MET:HG2	1:141:A:VAL:HG11	16	0.16
(1,1453)	1:50:A:MET:HG2	1:141:A:VAL:HG12	16	0.16
(1,1453)	1:50:A:MET:HG2	1:141:A:VAL:HG13	16	0.16
(1,1453)	1:50:A:MET:HG3	1:141:A:VAL:HG11	16	0.16
(1,1453)	1:50:A:MET:HG3	1:141:A:VAL:HG12	16	0.16
(1,1453)	1:50:A:MET:HG3	1:141:A:VAL:HG13	16	0.16
(1,1397)	1:166:A:VAL:H	1:166:A:VAL:HB	2	0.16
(1,1397)	1:166:A:VAL:H	1:166:A:VAL:HB	4	0.16
(1,1397)	1:166:A:VAL:H	1:166:A:VAL:HB	6	0.16
(1,1397)	1:166:A:VAL:H	1:166:A:VAL:HB	17	0.16
(1,1342)	1:157:A:THR:H	1:158:A:PHE:H	5	0.16
(1,1312)	1:150:A:TRP:HE1	1:162:A:ILE:HG21	18	0.16
(1,1312)	1:150:A:TRP:HE1	1:162:A:ILE:HG22	18	0.16
(1,1312)	1:150:A:TRP:HE1	1:162:A:ILE:HG23	18	0.16
(1,1282)	1:149:A:LYS:HD2	1:150:A:TRP:HE3	8	0.16
(1,1282)	1:149:A:LYS:HD3	1:150:A:TRP:HE3	8	0.16
(1,1264)	1:148:A:LYS:HD2	1:149:A:LYS:H	12	0.16
(1,1264)	1:148:A:LYS:HD3	1:149:A:LYS:H	12	0.16
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD11	11	0.16
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD12	11	0.16
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD13	11	0.16
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD11	11	0.16
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD12	11	0.16
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD13	11	0.16
(1,1118)	1:129:A:ASP:HB2	1:130:A:CYS:H	11	0.16
(1,1118)	1:129:A:ASP:HB3	1:130:A:CYS:H	11	0.16
(1,1118)	1:129:A:ASP:HB2	1:130:A:CYS:H	16	0.16
(1,1118)	1:129:A:ASP:HB3	1:130:A:CYS:H	16	0.16
(1,1096)	1:127:A:CYS:H	1:129:A:ASP:H	3	0.16
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG21	10	0.16
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG22	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG23	10	0.16
(1,1037)	1:123:A:GLN:HA	1:126:A:LEU:H	7	0.16
(1,959)	1:117:A:MET:HG2	1:120:A:PHE:H	4	0.16
(1,959)	1:117:A:MET:HG3	1:120:A:PHE:H	4	0.16
(1,900)	1:113:A:ASP:H	1:114:A:LEU:HG	18	0.16
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD21	6	0.16
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD22	6	0.16
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD23	6	0.16
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD21	19	0.16
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD22	19	0.16
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD23	19	0.16
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD11	12	0.16
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD12	12	0.16
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD13	12	0.16
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD11	9	0.16
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD12	9	0.16
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD13	9	0.16
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD21	9	0.16
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD22	9	0.16
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD23	9	0.16
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD11	9	0.16
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD12	9	0.16
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD13	9	0.16
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD21	9	0.16
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD22	9	0.16
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD23	9	0.16
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD11	9	0.16
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD12	9	0.16
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD13	9	0.16
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD21	9	0.16
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD22	9	0.16
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD23	9	0.16
(1,765)	1:105:A:ILE:HG12	1:124:A:VAL:H	3	0.16
(1,765)	1:105:A:ILE:HG13	1:124:A:VAL:H	3	0.16
(1,760)	1:105:A:ILE:HD11	1:123:A:GLN:H	7	0.16
(1,760)	1:105:A:ILE:HD12	1:123:A:GLN:H	7	0.16
(1,760)	1:105:A:ILE:HD13	1:123:A:GLN:H	7	0.16
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD11	5	0.16
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD12	5	0.16
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD13	5	0.16
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD11	9	0.16
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD12	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD13	9	0.16
(1,711)	1:102:A:ILE:HG21	1:103:A:VAL:H	11	0.16
(1,711)	1:102:A:ILE:HG22	1:103:A:VAL:H	11	0.16
(1,711)	1:102:A:ILE:HG23	1:103:A:VAL:H	11	0.16
(1,707)	1:102:A:ILE:HB	1:103:A:VAL:H	15	0.16
(1,707)	1:102:A:ILE:HB	1:103:A:VAL:H	20	0.16
(1,687)	1:100:A:GLU:HA	1:101:A:ALA:HB1	9	0.16
(1,687)	1:100:A:GLU:HA	1:101:A:ALA:HB2	9	0.16
(1,687)	1:100:A:GLU:HA	1:101:A:ALA:HB3	9	0.16
(1,682)	1:99:A:GLY:HA2	1:100:A:GLU:HG2	6	0.16
(1,682)	1:99:A:GLY:HA2	1:100:A:GLU:HG3	6	0.16
(1,682)	1:99:A:GLY:HA3	1:100:A:GLU:HG2	6	0.16
(1,682)	1:99:A:GLY:HA3	1:100:A:GLU:HG3	6	0.16
(1,652)	1:96:A:GLY:HA2	1:100:A:GLU:H	16	0.16
(1,652)	1:96:A:GLY:HA3	1:100:A:GLU:H	16	0.16
(1,624)	1:92:A:GLU:HB2	1:93:A:SER:HA	19	0.16
(1,624)	1:92:A:GLU:HB3	1:93:A:SER:HA	19	0.16
(1,613)	1:91:A:LYS:HA	1:93:A:SER:H	12	0.16
(1,592)	1:88:A:GLU:HA	1:89:A:GLY:H	3	0.16
(1,589)	1:87:A:TYR:H	1:87:A:TYR:HD1	20	0.16
(1,589)	1:87:A:TYR:H	1:87:A:TYR:HD2	20	0.16
(1,584)	1:87:A:TYR:HB2	1:88:A:GLU:H	5	0.16
(1,584)	1:87:A:TYR:HB3	1:88:A:GLU:H	5	0.16
(1,540)	1:75:A:LYS:H	1:78:A:LYS:HB2	1	0.16
(1,540)	1:75:A:LYS:H	1:78:A:LYS:HB3	1	0.16
(1,530)	1:75:A:LYS:HB2	1:116:A:PRO:HB2	4	0.16
(1,530)	1:75:A:LYS:HB3	1:116:A:PRO:HB2	4	0.16
(1,518)	1:72:A:CYS:HB2	1:77:A:LYS:H	20	0.16
(1,518)	1:72:A:CYS:HB3	1:77:A:LYS:H	20	0.16
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD11	14	0.16
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD12	14	0.16
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD13	14	0.16
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD11	20	0.16
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD12	20	0.16
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD13	20	0.16
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD11	3	0.16
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD12	3	0.16
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD13	3	0.16
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD11	3	0.16
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD12	3	0.16
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD13	3	0.16
(1,298)	1:54:A:ALA:HA	1:57:A:ALA:HB1	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,298)	1:54:A:ALA:HA	1:57:A:ALA:HB2	4	0.16
(1,298)	1:54:A:ALA:HA	1:57:A:ALA:HB3	4	0.16
(1,235)	1:50:A:MET:HE1	1:147:A:LEU:HA	2	0.16
(1,235)	1:50:A:MET:HE2	1:147:A:LEU:HA	2	0.16
(1,235)	1:50:A:MET:HE3	1:147:A:LEU:HA	2	0.16
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE1	6	0.16
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE2	6	0.16
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE3	6	0.16
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG21	14	0.16
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG22	14	0.16
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG23	14	0.16
(1,142)	1:47:A:LEU:HD11	1:48:A:LYS:HG2	5	0.16
(1,142)	1:47:A:LEU:HD11	1:48:A:LYS:HG3	5	0.16
(1,142)	1:47:A:LEU:HD12	1:48:A:LYS:HG2	5	0.16
(1,142)	1:47:A:LEU:HD12	1:48:A:LYS:HG3	5	0.16
(1,142)	1:47:A:LEU:HD13	1:48:A:LYS:HG2	5	0.16
(1,142)	1:47:A:LEU:HD13	1:48:A:LYS:HG3	5	0.16
(1,142)	1:47:A:LEU:HD21	1:48:A:LYS:HG2	5	0.16
(1,142)	1:47:A:LEU:HD21	1:48:A:LYS:HG3	5	0.16
(1,142)	1:47:A:LEU:HD22	1:48:A:LYS:HG2	5	0.16
(1,142)	1:47:A:LEU:HD22	1:48:A:LYS:HG3	5	0.16
(1,142)	1:47:A:LEU:HD23	1:48:A:LYS:HG2	5	0.16
(1,142)	1:47:A:LEU:HD23	1:48:A:LYS:HG3	5	0.16
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD11	12	0.16
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD12	12	0.16
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD13	12	0.16
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD21	12	0.16
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD22	12	0.16
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD23	12	0.16
(1,67)	1:44:A:LEU:HD11	1:46:A:VAL:H	8	0.16
(1,67)	1:44:A:LEU:HD12	1:46:A:VAL:H	8	0.16
(1,67)	1:44:A:LEU:HD13	1:46:A:VAL:H	8	0.16
(1,67)	1:44:A:LEU:HD21	1:46:A:VAL:H	8	0.16
(1,67)	1:44:A:LEU:HD22	1:46:A:VAL:H	8	0.16
(1,67)	1:44:A:LEU:HD23	1:46:A:VAL:H	8	0.16
(1,67)	1:44:A:LEU:HD11	1:46:A:VAL:H	12	0.16
(1,67)	1:44:A:LEU:HD12	1:46:A:VAL:H	12	0.16
(1,67)	1:44:A:LEU:HD13	1:46:A:VAL:H	12	0.16
(1,67)	1:44:A:LEU:HD21	1:46:A:VAL:H	12	0.16
(1,67)	1:44:A:LEU:HD22	1:46:A:VAL:H	12	0.16
(1,67)	1:44:A:LEU:HD23	1:46:A:VAL:H	12	0.16
(2,2)	1:102:A:ILE:HD11	1:105:A:ILE:HD11	12	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2)	1:102:A:ILE:HD11	1:105:A:ILE:HD12	12	0.15
(2,2)	1:102:A:ILE:HD11	1:105:A:ILE:HD13	12	0.15
(2,2)	1:102:A:ILE:HD12	1:105:A:ILE:HD11	12	0.15
(2,2)	1:102:A:ILE:HD12	1:105:A:ILE:HD12	12	0.15
(2,2)	1:102:A:ILE:HD12	1:105:A:ILE:HD13	12	0.15
(2,2)	1:102:A:ILE:HD13	1:105:A:ILE:HD11	12	0.15
(2,2)	1:102:A:ILE:HD13	1:105:A:ILE:HD12	12	0.15
(2,2)	1:102:A:ILE:HD13	1:105:A:ILE:HD13	12	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD11	4	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD12	4	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD13	4	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD21	4	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD22	4	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD23	4	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD11	8	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD12	8	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD13	8	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD21	8	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD22	8	0.15
(1,1559)	1:144:A:SER:HA	1:147:A:LEU:HD23	8	0.15
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD11	6	0.15
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD12	6	0.15
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD13	6	0.15
(1,1517)	1:108:A:ILE:HG21	1:122:A:ALA:HA	19	0.15
(1,1517)	1:108:A:ILE:HG22	1:122:A:ALA:HA	19	0.15
(1,1517)	1:108:A:ILE:HG23	1:122:A:ALA:HA	19	0.15
(1,1511)	1:103:A:VAL:HB	1:111:A:PHE:HE2	2	0.15
(1,1511)	1:103:A:VAL:HB	1:111:A:PHE:HE2	13	0.15
(1,1489)	1:65:A:ILE:HG13	1:127:A:CYS:H	11	0.15
(1,1483)	1:65:A:ILE:HG12	1:126:A:LEU:H	14	0.15
(1,1468)	1:59:A:CYS:HB3	1:64:A:LEU:H	12	0.15
(1,1441)	1:31:A:ASP:HB2	1:35:A:GLY:H	10	0.15
(1,1441)	1:31:A:ASP:HB3	1:35:A:GLY:H	10	0.15
(1,1417)	1:169:A:ILE:HB	1:169:A:ILE:HD11	8	0.15
(1,1417)	1:169:A:ILE:HB	1:169:A:ILE:HD12	8	0.15
(1,1417)	1:169:A:ILE:HB	1:169:A:ILE:HD13	8	0.15
(1,1411)	1:168:A:LYS:HE2	1:169:A:ILE:H	13	0.15
(1,1411)	1:168:A:LYS:HE3	1:169:A:ILE:H	13	0.15
(1,1391)	1:165:A:GLN:H	1:165:A:GLN:HG2	15	0.15
(1,1391)	1:165:A:GLN:H	1:165:A:GLN:HG3	15	0.15
(1,1330)	1:155:A:CYS:H	1:156:A:ALA:HA	4	0.15
(1,1315)	1:150:A:TRP:HH2	1:162:A:ILE:HB	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1280)	1:149:A:LYS:HD2	1:150:A:TRP:HD1	20	0.15
(1,1280)	1:149:A:LYS:HD3	1:150:A:TRP:HD1	20	0.15
(1,1256)	1:147:A:LEU:H	1:150:A:TRP:H	14	0.15
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD11	3	0.15
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD12	3	0.15
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD13	3	0.15
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD21	3	0.15
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD22	3	0.15
(1,1135)	1:132:A:THR:HA	1:135:A:LEU:HD23	3	0.15
(1,1126)	1:130:A:CYS:H	1:131:A:THR:HA	2	0.15
(1,1118)	1:129:A:ASP:HB2	1:130:A:CYS:H	5	0.15
(1,1118)	1:129:A:ASP:HB3	1:130:A:CYS:H	5	0.15
(1,1118)	1:129:A:ASP:HB2	1:130:A:CYS:H	7	0.15
(1,1118)	1:129:A:ASP:HB3	1:130:A:CYS:H	7	0.15
(1,1096)	1:127:A:CYS:H	1:129:A:ASP:H	7	0.15
(1,1096)	1:127:A:CYS:H	1:129:A:ASP:H	14	0.15
(1,1095)	1:127:A:CYS:H	1:128:A:VAL:H	6	0.15
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG21	3	0.15
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG22	3	0.15
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG23	3	0.15
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG21	4	0.15
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG22	4	0.15
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG23	4	0.15
(1,1052)	1:124:A:VAL:HB	1:127:A:CYS:H	6	0.15
(1,1037)	1:123:A:GLN:HA	1:126:A:LEU:H	10	0.15
(1,1037)	1:123:A:GLN:HA	1:126:A:LEU:H	18	0.15
(1,1013)	1:121:A:ILE:HG21	1:123:A:GLN:H	15	0.15
(1,1013)	1:121:A:ILE:HG22	1:123:A:GLN:H	15	0.15
(1,1013)	1:121:A:ILE:HG23	1:123:A:GLN:H	15	0.15
(1,956)	1:117:A:MET:HE1	1:121:A:ILE:H	4	0.15
(1,956)	1:117:A:MET:HE2	1:121:A:ILE:H	4	0.15
(1,956)	1:117:A:MET:HE3	1:121:A:ILE:H	4	0.15
(1,932)	1:114:A:LEU:HG	1:119:A:GLN:H	16	0.15
(1,900)	1:113:A:ASP:H	1:114:A:LEU:HG	10	0.15
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD21	18	0.15
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD22	18	0.15
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD23	18	0.15
(1,898)	1:113:A:ASP:H	1:114:A:LEU:HD11	20	0.15
(1,898)	1:113:A:ASP:H	1:114:A:LEU:HD12	20	0.15
(1,898)	1:113:A:ASP:H	1:114:A:LEU:HD13	20	0.15
(1,876)	1:111:A:PHE:HB2	1:112:A:LYS:H	13	0.15
(1,876)	1:111:A:PHE:HB2	1:112:A:LYS:H	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,876)	1:111:A:PHE:HB2	1:112:A:LYS:H	20	0.15
(1,796)	1:105:A:ILE:H	1:123:A:GLN:HA	9	0.15
(1,765)	1:105:A:ILE:HG12	1:124:A:VAL:H	4	0.15
(1,765)	1:105:A:ILE:HG13	1:124:A:VAL:H	4	0.15
(1,761)	1:105:A:ILE:HD11	1:124:A:VAL:H	5	0.15
(1,761)	1:105:A:ILE:HD12	1:124:A:VAL:H	5	0.15
(1,761)	1:105:A:ILE:HD13	1:124:A:VAL:H	5	0.15
(1,761)	1:105:A:ILE:HD11	1:124:A:VAL:H	14	0.15
(1,761)	1:105:A:ILE:HD12	1:124:A:VAL:H	14	0.15
(1,761)	1:105:A:ILE:HD13	1:124:A:VAL:H	14	0.15
(1,760)	1:105:A:ILE:HD11	1:123:A:GLN:H	8	0.15
(1,760)	1:105:A:ILE:HD12	1:123:A:GLN:H	8	0.15
(1,760)	1:105:A:ILE:HD13	1:123:A:GLN:H	8	0.15
(1,760)	1:105:A:ILE:HD11	1:123:A:GLN:H	11	0.15
(1,760)	1:105:A:ILE:HD12	1:123:A:GLN:H	11	0.15
(1,760)	1:105:A:ILE:HD13	1:123:A:GLN:H	11	0.15
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD11	1	0.15
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD12	1	0.15
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD13	1	0.15
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD11	10	0.15
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD12	10	0.15
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD13	10	0.15
(1,707)	1:102:A:ILE:HB	1:103:A:VAL:H	13	0.15
(1,699)	1:101:A:ALA:HB1	1:102:A:ILE:H	1	0.15
(1,699)	1:101:A:ALA:HB2	1:102:A:ILE:H	1	0.15
(1,699)	1:101:A:ALA:HB3	1:102:A:ILE:H	1	0.15
(1,691)	1:100:A:GLU:HG2	1:101:A:ALA:H	2	0.15
(1,691)	1:100:A:GLU:HG3	1:101:A:ALA:H	2	0.15
(1,616)	1:91:A:LYS:HB2	1:92:A:GLU:H	7	0.15
(1,616)	1:91:A:LYS:HB3	1:92:A:GLU:H	7	0.15
(1,606)	1:90:A:ASP:HA	1:91:A:LYS:H	20	0.15
(1,599)	1:88:A:GLU:HG2	1:90:A:ASP:H	9	0.15
(1,599)	1:88:A:GLU:HG3	1:90:A:ASP:H	9	0.15
(1,599)	1:88:A:GLU:HG2	1:90:A:ASP:H	20	0.15
(1,599)	1:88:A:GLU:HG3	1:90:A:ASP:H	20	0.15
(1,554)	1:76:A:MET:HE1	1:122:A:ALA:H	16	0.15
(1,554)	1:76:A:MET:HE2	1:122:A:ALA:H	16	0.15
(1,554)	1:76:A:MET:HE3	1:122:A:ALA:H	16	0.15
(1,535)	1:75:A:LYS:H	1:116:A:PRO:HB2	13	0.15
(1,535)	1:75:A:LYS:H	1:116:A:PRO:HB2	16	0.15
(1,530)	1:75:A:LYS:HB2	1:116:A:PRO:HB2	5	0.15
(1,530)	1:75:A:LYS:HB3	1:116:A:PRO:HB2	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,530)	1:75:A:LYS:HB2	1:116:A:PRO:HB2	17	0.15
(1,530)	1:75:A:LYS:HB3	1:116:A:PRO:HB2	17	0.15
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD11	2	0.15
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD12	2	0.15
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD13	2	0.15
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG11	14	0.15
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG12	14	0.15
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG13	14	0.15
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG21	14	0.15
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG22	14	0.15
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG23	14	0.15
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE1	2	0.15
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE2	2	0.15
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE3	2	0.15
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE1	2	0.15
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE2	2	0.15
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE3	2	0.15
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE1	2	0.15
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE2	2	0.15
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE3	2	0.15
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	6	0.15
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	6	0.15
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	6	0.15
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	7	0.15
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	7	0.15
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	7	0.15
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	10	0.15
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	10	0.15
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	10	0.15
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	12	0.15
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	12	0.15
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	12	0.15
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	15	0.15
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	15	0.15
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	15	0.15
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB2	5	0.15
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB3	5	0.15
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB2	16	0.15
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB3	16	0.15
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD11	7	0.15
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD12	7	0.15
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD13	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD11	17	0.15
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD12	17	0.15
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD13	17	0.15
(1,386)	1:63:A:CYS:HB2	1:64:A:LEU:H	12	0.15
(1,386)	1:63:A:CYS:HB2	1:64:A:LEU:H	16	0.15
(1,373)	1:62:A:GLY:H	1:65:A:ILE:HD11	4	0.15
(1,373)	1:62:A:GLY:H	1:65:A:ILE:HD12	4	0.15
(1,373)	1:62:A:GLY:H	1:65:A:ILE:HD13	4	0.15
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD11	6	0.15
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD12	6	0.15
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD13	6	0.15
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD11	6	0.15
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD12	6	0.15
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD13	6	0.15
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD11	15	0.15
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD12	15	0.15
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD13	15	0.15
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD11	15	0.15
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD12	15	0.15
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD13	15	0.15
(1,341)	1:57:A:ALA:H	1:137:A:GLY:H	13	0.15
(1,235)	1:50:A:MET:HE1	1:147:A:LEU:HA	10	0.15
(1,235)	1:50:A:MET:HE2	1:147:A:LEU:HA	10	0.15
(1,235)	1:50:A:MET:HE3	1:147:A:LEU:HA	10	0.15
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE1	12	0.15
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE2	12	0.15
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE3	12	0.15
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD11	10	0.15
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD12	10	0.15
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD13	10	0.15
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD11	14	0.15
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD12	14	0.15
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD13	14	0.15
(1,170)	1:48:A:LYS:H	1:49:A:GLU:HB2	5	0.15
(1,151)	1:47:A:LEU:H	1:49:A:GLU:H	11	0.15
(1,143)	1:47:A:LEU:HD11	1:48:A:LYS:H	16	0.15
(1,143)	1:47:A:LEU:HD12	1:48:A:LYS:H	16	0.15
(1,143)	1:47:A:LEU:HD13	1:48:A:LYS:H	16	0.15
(1,143)	1:47:A:LEU:HD21	1:48:A:LYS:H	16	0.15
(1,143)	1:47:A:LEU:HD22	1:48:A:LYS:H	16	0.15
(1,143)	1:47:A:LEU:HD23	1:48:A:LYS:H	16	0.15
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD11	16	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD12	16	0.15
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD13	16	0.15
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD21	16	0.15
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD22	16	0.15
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD23	16	0.15
(1,1550)	1:120:A:PHE:HE1	1:124:A:VAL:HG21	14	0.14
(1,1550)	1:120:A:PHE:HE1	1:124:A:VAL:HG22	14	0.14
(1,1550)	1:120:A:PHE:HE1	1:124:A:VAL:HG23	14	0.14
(1,1525)	1:114:A:LEU:H	1:119:A:GLN:HG3	9	0.14
(1,1525)	1:114:A:LEU:H	1:119:A:GLN:HG3	10	0.14
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD11	15	0.14
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD12	15	0.14
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD13	15	0.14
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD11	20	0.14
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD12	20	0.14
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD13	20	0.14
(1,1517)	1:108:A:ILE:HG21	1:122:A:ALA:HA	15	0.14
(1,1517)	1:108:A:ILE:HG22	1:122:A:ALA:HA	15	0.14
(1,1517)	1:108:A:ILE:HG23	1:122:A:ALA:HA	15	0.14
(1,1517)	1:108:A:ILE:HG21	1:122:A:ALA:HA	20	0.14
(1,1517)	1:108:A:ILE:HG22	1:122:A:ALA:HA	20	0.14
(1,1517)	1:108:A:ILE:HG23	1:122:A:ALA:HA	20	0.14
(1,1513)	1:103:A:VAL:HG11	1:111:A:PHE:HE2	10	0.14
(1,1513)	1:103:A:VAL:HG12	1:111:A:PHE:HE2	10	0.14
(1,1513)	1:103:A:VAL:HG13	1:111:A:PHE:HE2	10	0.14
(1,1513)	1:103:A:VAL:HG21	1:111:A:PHE:HE2	10	0.14
(1,1513)	1:103:A:VAL:HG22	1:111:A:PHE:HE2	10	0.14
(1,1513)	1:103:A:VAL:HG23	1:111:A:PHE:HE2	10	0.14
(1,1513)	1:103:A:VAL:HG11	1:111:A:PHE:HE2	15	0.14
(1,1513)	1:103:A:VAL:HG12	1:111:A:PHE:HE2	15	0.14
(1,1513)	1:103:A:VAL:HG13	1:111:A:PHE:HE2	15	0.14
(1,1513)	1:103:A:VAL:HG21	1:111:A:PHE:HE2	15	0.14
(1,1513)	1:103:A:VAL:HG22	1:111:A:PHE:HE2	15	0.14
(1,1513)	1:103:A:VAL:HG23	1:111:A:PHE:HE2	15	0.14
(1,1494)	1:66:A:CYS:HA	1:124:A:VAL:H	10	0.14
(1,1483)	1:65:A:ILE:HG12	1:126:A:LEU:H	5	0.14
(1,1483)	1:65:A:ILE:HG12	1:126:A:LEU:H	11	0.14
(1,1474)	1:64:A:LEU:H	1:67:A:LEU:H	18	0.14
(1,1468)	1:59:A:CYS:HB3	1:64:A:LEU:H	5	0.14
(1,1468)	1:59:A:CYS:HB3	1:64:A:LEU:H	20	0.14
(1,1463)	1:54:A:ALA:H	1:67:A:LEU:HD11	14	0.14
(1,1463)	1:54:A:ALA:H	1:67:A:LEU:HD12	14	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1463)	1:54:A:ALA:H	1:67:A:LEU:HD13	14	0.14
(1,1455)	1:51:A:GLU:HB2	1:54:A:ALA:H	20	0.14
(1,1444)	1:43:A:PRO:HG2	1:46:A:VAL:H	8	0.14
(1,1439)	1:174:A:GLY:HA2	1:175:A:ASP:H	14	0.14
(1,1439)	1:174:A:GLY:HA3	1:175:A:ASP:H	14	0.14
(1,1421)	1:169:A:ILE:HG21	1:170:A:LYS:H	7	0.14
(1,1421)	1:169:A:ILE:HG22	1:170:A:LYS:H	7	0.14
(1,1421)	1:169:A:ILE:HG23	1:170:A:LYS:H	7	0.14
(1,1417)	1:169:A:ILE:HB	1:169:A:ILE:HD11	20	0.14
(1,1417)	1:169:A:ILE:HB	1:169:A:ILE:HD12	20	0.14
(1,1417)	1:169:A:ILE:HB	1:169:A:ILE:HD13	20	0.14
(1,1411)	1:168:A:LYS:HE2	1:169:A:ILE:H	8	0.14
(1,1411)	1:168:A:LYS:HE3	1:169:A:ILE:H	8	0.14
(1,1389)	1:165:A:GLN:HG2	1:167:A:ASP:H	13	0.14
(1,1389)	1:165:A:GLN:HG3	1:167:A:ASP:H	13	0.14
(1,1383)	1:165:A:GLN:HA	1:166:A:VAL:H	16	0.14
(1,1369)	1:162:A:ILE:H	1:162:A:ILE:HG21	20	0.14
(1,1369)	1:162:A:ILE:H	1:162:A:ILE:HG22	20	0.14
(1,1369)	1:162:A:ILE:H	1:162:A:ILE:HG23	20	0.14
(1,1352)	1:160:A:SER:HB2	1:161:A:LYS:H	14	0.14
(1,1352)	1:160:A:SER:HB3	1:161:A:LYS:H	14	0.14
(1,1256)	1:147:A:LEU:H	1:150:A:TRP:H	9	0.14
(1,1256)	1:147:A:LEU:H	1:150:A:TRP:H	20	0.14
(1,1222)	1:146:A:LEU:HB2	1:150:A:TRP:HD1	7	0.14
(1,1222)	1:146:A:LEU:HB3	1:150:A:TRP:HD1	7	0.14
(1,1118)	1:129:A:ASP:HB2	1:130:A:CYS:H	12	0.14
(1,1118)	1:129:A:ASP:HB3	1:130:A:CYS:H	12	0.14
(1,1118)	1:129:A:ASP:HB2	1:130:A:CYS:H	15	0.14
(1,1118)	1:129:A:ASP:HB3	1:130:A:CYS:H	15	0.14
(1,1118)	1:129:A:ASP:HB2	1:130:A:CYS:H	19	0.14
(1,1118)	1:129:A:ASP:HB3	1:130:A:CYS:H	19	0.14
(1,1095)	1:127:A:CYS:H	1:128:A:VAL:H	9	0.14
(1,1058)	1:124:A:VAL:HG21	1:125:A:ASP:HB2	9	0.14
(1,1058)	1:124:A:VAL:HG21	1:125:A:ASP:HB3	9	0.14
(1,1058)	1:124:A:VAL:HG22	1:125:A:ASP:HB2	9	0.14
(1,1058)	1:124:A:VAL:HG22	1:125:A:ASP:HB3	9	0.14
(1,1058)	1:124:A:VAL:HG23	1:125:A:ASP:HB2	9	0.14
(1,1058)	1:124:A:VAL:HG23	1:125:A:ASP:HB3	9	0.14
(1,1052)	1:124:A:VAL:HB	1:127:A:CYS:H	16	0.14
(1,1052)	1:124:A:VAL:HB	1:127:A:CYS:H	18	0.14
(1,1037)	1:123:A:GLN:HA	1:126:A:LEU:H	1	0.14
(1,1037)	1:123:A:GLN:HA	1:126:A:LEU:H	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD21	9	0.14
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD22	9	0.14
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD23	9	0.14
(1,898)	1:113:A:ASP:H	1:114:A:LEU:HD11	11	0.14
(1,898)	1:113:A:ASP:H	1:114:A:LEU:HD12	11	0.14
(1,898)	1:113:A:ASP:H	1:114:A:LEU:HD13	11	0.14
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE2	3	0.14
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE3	3	0.14
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD11	8	0.14
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD12	8	0.14
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD13	8	0.14
(1,876)	1:111:A:PHE:HB2	1:112:A:LYS:H	11	0.14
(1,838)	1:108:A:ILE:HG12	1:122:A:ALA:H	8	0.14
(1,830)	1:108:A:ILE:HD11	1:114:A:LEU:HG	8	0.14
(1,830)	1:108:A:ILE:HD12	1:114:A:LEU:HG	8	0.14
(1,830)	1:108:A:ILE:HD13	1:114:A:LEU:HG	8	0.14
(1,830)	1:108:A:ILE:HD11	1:114:A:LEU:HG	12	0.14
(1,830)	1:108:A:ILE:HD12	1:114:A:LEU:HG	12	0.14
(1,830)	1:108:A:ILE:HD13	1:114:A:LEU:HG	12	0.14
(1,818)	1:107:A:GLU:H	1:108:A:ILE:HG12	8	0.14
(1,796)	1:105:A:ILE:H	1:123:A:GLN:HA	10	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD11	19	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD12	19	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD13	19	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD21	19	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD22	19	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD23	19	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD11	19	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD12	19	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD13	19	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD21	19	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD22	19	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD23	19	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD11	19	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD12	19	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD13	19	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD21	19	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD22	19	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD23	19	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD11	20	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD12	20	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD13	20	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD21	20	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD22	20	0.14
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD23	20	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD11	20	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD12	20	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD13	20	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD21	20	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD22	20	0.14
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD23	20	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD11	20	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD12	20	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD13	20	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD21	20	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD22	20	0.14
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD23	20	0.14
(1,765)	1:105:A:ILE:HG12	1:124:A:VAL:H	7	0.14
(1,765)	1:105:A:ILE:HG13	1:124:A:VAL:H	7	0.14
(1,761)	1:105:A:ILE:HD11	1:124:A:VAL:H	2	0.14
(1,761)	1:105:A:ILE:HD12	1:124:A:VAL:H	2	0.14
(1,761)	1:105:A:ILE:HD13	1:124:A:VAL:H	2	0.14
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD11	7	0.14
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD12	7	0.14
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD13	7	0.14
(1,638)	1:93:A:SER:H	1:94:A:ALA:HA	18	0.14
(1,587)	1:87:A:TYR:HD1	1:89:A:GLY:H	20	0.14
(1,587)	1:87:A:TYR:HD2	1:89:A:GLY:H	20	0.14
(1,580)	1:86:A:THR:HG21	1:87:A:TYR:HD1	12	0.14
(1,580)	1:86:A:THR:HG21	1:87:A:TYR:HD2	12	0.14
(1,580)	1:86:A:THR:HG22	1:87:A:TYR:HD1	12	0.14
(1,580)	1:86:A:THR:HG22	1:87:A:TYR:HD2	12	0.14
(1,580)	1:86:A:THR:HG23	1:87:A:TYR:HD1	12	0.14
(1,580)	1:86:A:THR:HG23	1:87:A:TYR:HD2	12	0.14
(1,572)	1:78:A:LYS:HA	1:78:A:LYS:HG2	18	0.14
(1,572)	1:78:A:LYS:HA	1:78:A:LYS:HG3	18	0.14
(1,554)	1:76:A:MET:HE1	1:122:A:ALA:H	13	0.14
(1,554)	1:76:A:MET:HE2	1:122:A:ALA:H	13	0.14
(1,554)	1:76:A:MET:HE3	1:122:A:ALA:H	13	0.14
(1,544)	1:76:A:MET:HB2	1:117:A:MET:H	3	0.14
(1,544)	1:76:A:MET:HB3	1:117:A:MET:H	3	0.14
(1,544)	1:76:A:MET:HB2	1:117:A:MET:H	5	0.14
(1,544)	1:76:A:MET:HB3	1:117:A:MET:H	5	0.14
(1,530)	1:75:A:LYS:HB2	1:116:A:PRO:HB2	1	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,530)	1:75:A:LYS:HB3	1:116:A:PRO:HB2	1	0.14
(1,530)	1:75:A:LYS:HB2	1:116:A:PRO:HB2	18	0.14
(1,530)	1:75:A:LYS:HB3	1:116:A:PRO:HB2	18	0.14
(1,502)	1:71:A:LYS:HB2	1:103:A:VAL:HB	9	0.14
(1,502)	1:71:A:LYS:HB3	1:103:A:VAL:HB	9	0.14
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD11	12	0.14
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD12	12	0.14
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD13	12	0.14
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE1	8	0.14
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE2	8	0.14
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE3	8	0.14
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE1	8	0.14
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE2	8	0.14
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE3	8	0.14
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE1	8	0.14
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE2	8	0.14
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE3	8	0.14
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	2	0.14
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	2	0.14
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	2	0.14
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	5	0.14
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	5	0.14
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	5	0.14
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	13	0.14
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	13	0.14
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	13	0.14
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	14	0.14
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	14	0.14
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	14	0.14
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD11	2	0.14
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD12	2	0.14
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD13	2	0.14
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD11	4	0.14
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD12	4	0.14
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD13	4	0.14
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD11	18	0.14
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD12	18	0.14
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD13	18	0.14
(1,415)	1:65:A:ILE:HG21	1:68:A:SER:HA	8	0.14
(1,415)	1:65:A:ILE:HG22	1:68:A:SER:HA	8	0.14
(1,415)	1:65:A:ILE:HG23	1:68:A:SER:HA	8	0.14
(1,386)	1:63:A:CYS:HB2	1:64:A:LEU:H	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,373)	1:62:A:GLY:H	1:65:A:ILE:HD11	7	0.14
(1,373)	1:62:A:GLY:H	1:65:A:ILE:HD12	7	0.14
(1,373)	1:62:A:GLY:H	1:65:A:ILE:HD13	7	0.14
(1,369)	1:62:A:GLY:HA2	1:65:A:ILE:H	4	0.14
(1,352)	1:60:A:THR:H	1:63:A:CYS:HB2	12	0.14
(1,352)	1:60:A:THR:H	1:63:A:CYS:HB2	18	0.14
(1,351)	1:60:A:THR:H	1:63:A:CYS:HB3	19	0.14
(1,348)	1:60:A:THR:H	1:131:A:THR:HB	5	0.14
(1,346)	1:59:A:CYS:HA	1:134:A:CYS:H	3	0.14
(1,346)	1:59:A:CYS:HA	1:134:A:CYS:H	13	0.14
(1,277)	1:52:A:ALA:H	1:53:A:ASN:HB2	16	0.14
(1,235)	1:50:A:MET:HE1	1:147:A:LEU:HA	3	0.14
(1,235)	1:50:A:MET:HE2	1:147:A:LEU:HA	3	0.14
(1,235)	1:50:A:MET:HE3	1:147:A:LEU:HA	3	0.14
(1,235)	1:50:A:MET:HE1	1:147:A:LEU:HA	6	0.14
(1,235)	1:50:A:MET:HE2	1:147:A:LEU:HA	6	0.14
(1,235)	1:50:A:MET:HE3	1:147:A:LEU:HA	6	0.14
(1,235)	1:50:A:MET:HE1	1:147:A:LEU:HA	9	0.14
(1,235)	1:50:A:MET:HE2	1:147:A:LEU:HA	9	0.14
(1,235)	1:50:A:MET:HE3	1:147:A:LEU:HA	9	0.14
(1,235)	1:50:A:MET:HE1	1:147:A:LEU:HA	18	0.14
(1,235)	1:50:A:MET:HE2	1:147:A:LEU:HA	18	0.14
(1,235)	1:50:A:MET:HE3	1:147:A:LEU:HA	18	0.14
(1,235)	1:50:A:MET:HE1	1:147:A:LEU:HA	20	0.14
(1,235)	1:50:A:MET:HE2	1:147:A:LEU:HA	20	0.14
(1,235)	1:50:A:MET:HE3	1:147:A:LEU:HA	20	0.14
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG21	17	0.14
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG22	17	0.14
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG23	17	0.14
(1,170)	1:48:A:LYS:H	1:49:A:GLU:HB2	10	0.14
(1,143)	1:47:A:LEU:HD11	1:48:A:LYS:H	14	0.14
(1,143)	1:47:A:LEU:HD12	1:48:A:LYS:H	14	0.14
(1,143)	1:47:A:LEU:HD13	1:48:A:LYS:H	14	0.14
(1,143)	1:47:A:LEU:HD21	1:48:A:LYS:H	14	0.14
(1,143)	1:47:A:LEU:HD22	1:48:A:LYS:H	14	0.14
(1,143)	1:47:A:LEU:HD23	1:48:A:LYS:H	14	0.14
(1,142)	1:47:A:LEU:HD11	1:48:A:LYS:HG2	9	0.14
(1,142)	1:47:A:LEU:HD11	1:48:A:LYS:HG3	9	0.14
(1,142)	1:47:A:LEU:HD12	1:48:A:LYS:HG2	9	0.14
(1,142)	1:47:A:LEU:HD12	1:48:A:LYS:HG3	9	0.14
(1,142)	1:47:A:LEU:HD13	1:48:A:LYS:HG2	9	0.14
(1,142)	1:47:A:LEU:HD13	1:48:A:LYS:HG3	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,142)	1:47:A:LEU:HD21	1:48:A:LYS:HG2	9	0.14
(1,142)	1:47:A:LEU:HD21	1:48:A:LYS:HG3	9	0.14
(1,142)	1:47:A:LEU:HD22	1:48:A:LYS:HG2	9	0.14
(1,142)	1:47:A:LEU:HD22	1:48:A:LYS:HG3	9	0.14
(1,142)	1:47:A:LEU:HD23	1:48:A:LYS:HG2	9	0.14
(1,142)	1:47:A:LEU:HD23	1:48:A:LYS:HG3	9	0.14
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD11	11	0.14
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD12	11	0.14
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD13	11	0.14
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD21	11	0.14
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD22	11	0.14
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD23	11	0.14
(1,81)	1:45:A:GLU:HB2	1:150:A:TRP:HH2	11	0.14
(1,81)	1:45:A:GLU:HB3	1:150:A:TRP:HH2	11	0.14
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB1	19	0.14
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB2	19	0.14
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB3	19	0.14
(1,2)	1:31:A:ASP:HA	1:34:A:ARG:HD2	2	0.14
(1,2)	1:31:A:ASP:HA	1:34:A:ARG:HD3	2	0.14
(2,1)	1:66:A:CYS:H	1:70:A:ILE:H	8	0.13
(2,1)	1:66:A:CYS:H	1:70:A:ILE:H	10	0.13
(1,1525)	1:114:A:LEU:H	1:119:A:GLN:HG3	1	0.13
(1,1525)	1:114:A:LEU:H	1:119:A:GLN:HG3	13	0.13
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD11	10	0.13
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD12	10	0.13
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD13	10	0.13
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD11	18	0.13
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD12	18	0.13
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD13	18	0.13
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD11	19	0.13
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD12	19	0.13
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD13	19	0.13
(1,1520)	1:108:A:ILE:HD11	1:111:A:PHE:HD2	5	0.13
(1,1520)	1:108:A:ILE:HD12	1:111:A:PHE:HD2	5	0.13
(1,1520)	1:108:A:ILE:HD13	1:111:A:PHE:HD2	5	0.13
(1,1518)	1:108:A:ILE:HG12	1:123:A:GLN:HA	7	0.13
(1,1517)	1:108:A:ILE:HG21	1:122:A:ALA:HA	11	0.13
(1,1517)	1:108:A:ILE:HG22	1:122:A:ALA:HA	11	0.13
(1,1517)	1:108:A:ILE:HG23	1:122:A:ALA:HA	11	0.13
(1,1494)	1:66:A:CYS:HA	1:124:A:VAL:H	14	0.13
(1,1489)	1:65:A:ILE:HG13	1:127:A:CYS:H	13	0.13
(1,1484)	1:65:A:ILE:HG12	1:127:A:CYS:HB3	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1484)	1:65:A:ILE:HG12	1:127:A:CYS:HB3	20	0.13
(1,1483)	1:65:A:ILE:HG12	1:126:A:LEU:H	1	0.13
(1,1483)	1:65:A:ILE:HG12	1:126:A:LEU:H	17	0.13
(1,1468)	1:59:A:CYS:HB3	1:64:A:LEU:H	3	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD11	3	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD12	3	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD13	3	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD21	3	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD22	3	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD23	3	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD11	3	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD12	3	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD13	3	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD21	3	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD22	3	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD23	3	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD11	13	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD12	13	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD13	13	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD21	13	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD22	13	0.13
(1,1467)	1:58:A:GLY:HA2	1:64:A:LEU:HD23	13	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD11	13	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD12	13	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD13	13	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD21	13	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD22	13	0.13
(1,1467)	1:58:A:GLY:HA3	1:64:A:LEU:HD23	13	0.13
(1,1466)	1:55:A:ARG:HD2	1:67:A:LEU:HD11	10	0.13
(1,1466)	1:55:A:ARG:HD2	1:67:A:LEU:HD12	10	0.13
(1,1466)	1:55:A:ARG:HD2	1:67:A:LEU:HD13	10	0.13
(1,1466)	1:55:A:ARG:HD3	1:67:A:LEU:HD11	10	0.13
(1,1466)	1:55:A:ARG:HD3	1:67:A:LEU:HD12	10	0.13
(1,1466)	1:55:A:ARG:HD3	1:67:A:LEU:HD13	10	0.13
(1,1455)	1:51:A:GLU:HB2	1:54:A:ALA:H	2	0.13
(1,1455)	1:51:A:GLU:HB2	1:54:A:ALA:H	11	0.13
(1,1455)	1:51:A:GLU:HB2	1:54:A:ALA:H	12	0.13
(1,1412)	1:168:A:LYS:HG2	1:168:A:LYS:HE2	14	0.13
(1,1412)	1:168:A:LYS:HG2	1:168:A:LYS:HE3	14	0.13
(1,1412)	1:168:A:LYS:HG3	1:168:A:LYS:HE2	14	0.13
(1,1412)	1:168:A:LYS:HG3	1:168:A:LYS:HE3	14	0.13
(1,1404)	1:168:A:LYS:HA	1:168:A:LYS:HD2	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1404)	1:168:A:LYS:HA	1:168:A:LYS:HD3	12	0.13
(1,1397)	1:166:A:VAL:H	1:166:A:VAL:HB	5	0.13
(1,1391)	1:165:A:GLN:H	1:165:A:GLN:HG2	16	0.13
(1,1391)	1:165:A:GLN:H	1:165:A:GLN:HG3	16	0.13
(1,1357)	1:161:A:LYS:HB2	1:162:A:ILE:H	8	0.13
(1,1357)	1:161:A:LYS:HB3	1:162:A:ILE:H	8	0.13
(1,1351)	1:160:A:SER:HA	1:161:A:LYS:H	19	0.13
(1,1342)	1:157:A:THR:H	1:158:A:PHE:H	16	0.13
(1,1338)	1:157:A:THR:HA	1:157:A:THR:HG21	18	0.13
(1,1338)	1:157:A:THR:HA	1:157:A:THR:HG22	18	0.13
(1,1338)	1:157:A:THR:HA	1:157:A:THR:HG23	18	0.13
(1,1323)	1:150:A:TRP:HZ2	1:162:A:ILE:HG12	10	0.13
(1,1323)	1:150:A:TRP:HZ2	1:162:A:ILE:HG13	10	0.13
(1,1315)	1:150:A:TRP:HH2	1:162:A:ILE:HB	11	0.13
(1,1315)	1:150:A:TRP:HH2	1:162:A:ILE:HB	13	0.13
(1,1294)	1:149:A:LYS:HG2	1:150:A:TRP:HE1	19	0.13
(1,1280)	1:149:A:LYS:HD2	1:150:A:TRP:HD1	12	0.13
(1,1280)	1:149:A:LYS:HD3	1:150:A:TRP:HD1	12	0.13
(1,1255)	1:147:A:LEU:H	1:150:A:TRP:HD1	14	0.13
(1,1227)	1:146:A:LEU:HD11	1:150:A:TRP:HD1	11	0.13
(1,1227)	1:146:A:LEU:HD12	1:150:A:TRP:HD1	11	0.13
(1,1227)	1:146:A:LEU:HD13	1:150:A:TRP:HD1	11	0.13
(1,1227)	1:146:A:LEU:HD21	1:150:A:TRP:HD1	11	0.13
(1,1227)	1:146:A:LEU:HD22	1:150:A:TRP:HD1	11	0.13
(1,1227)	1:146:A:LEU:HD23	1:150:A:TRP:HD1	11	0.13
(1,1227)	1:146:A:LEU:HD11	1:150:A:TRP:HD1	18	0.13
(1,1227)	1:146:A:LEU:HD12	1:150:A:TRP:HD1	18	0.13
(1,1227)	1:146:A:LEU:HD13	1:150:A:TRP:HD1	18	0.13
(1,1227)	1:146:A:LEU:HD21	1:150:A:TRP:HD1	18	0.13
(1,1227)	1:146:A:LEU:HD22	1:150:A:TRP:HD1	18	0.13
(1,1227)	1:146:A:LEU:HD23	1:150:A:TRP:HD1	18	0.13
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD11	18	0.13
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD12	18	0.13
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD13	18	0.13
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD11	18	0.13
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD12	18	0.13
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD13	18	0.13
(1,1181)	1:138:A:LEU:HA	1:141:A:VAL:H	20	0.13
(1,1121)	1:129:A:ASP:H	1:130:A:CYS:HB2	3	0.13
(1,1121)	1:129:A:ASP:H	1:130:A:CYS:HB3	3	0.13
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG21	17	0.13
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG22	17	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG23	17	0.13
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG21	1	0.13
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG22	1	0.13
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG23	1	0.13
(1,1056)	1:124:A:VAL:HG11	1:127:A:CYS:H	3	0.13
(1,1056)	1:124:A:VAL:HG12	1:127:A:CYS:H	3	0.13
(1,1056)	1:124:A:VAL:HG13	1:127:A:CYS:H	3	0.13
(1,1037)	1:123:A:GLN:HA	1:126:A:LEU:H	19	0.13
(1,1004)	1:121:A:ILE:HA	1:124:A:VAL:HB	20	0.13
(1,932)	1:114:A:LEU:HG	1:119:A:GLN:H	5	0.13
(1,919)	1:114:A:LEU:HD11	1:118:A:GLU:HB3	20	0.13
(1,919)	1:114:A:LEU:HD12	1:118:A:GLU:HB3	20	0.13
(1,919)	1:114:A:LEU:HD13	1:118:A:GLU:HB3	20	0.13
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD21	1	0.13
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD22	1	0.13
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD23	1	0.13
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE2	2	0.13
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE3	2	0.13
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD11	5	0.13
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD12	5	0.13
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD13	5	0.13
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD11	7	0.13
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD12	7	0.13
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD13	7	0.13
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD11	16	0.13
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD12	16	0.13
(1,877)	1:111:A:PHE:HB2	1:114:A:LEU:HD13	16	0.13
(1,830)	1:108:A:ILE:HD11	1:114:A:LEU:HG	2	0.13
(1,830)	1:108:A:ILE:HD12	1:114:A:LEU:HG	2	0.13
(1,830)	1:108:A:ILE:HD13	1:114:A:LEU:HG	2	0.13
(1,830)	1:108:A:ILE:HD11	1:114:A:LEU:HG	7	0.13
(1,830)	1:108:A:ILE:HD12	1:114:A:LEU:HG	7	0.13
(1,830)	1:108:A:ILE:HD13	1:114:A:LEU:HG	7	0.13
(1,830)	1:108:A:ILE:HD11	1:114:A:LEU:HG	14	0.13
(1,830)	1:108:A:ILE:HD12	1:114:A:LEU:HG	14	0.13
(1,830)	1:108:A:ILE:HD13	1:114:A:LEU:HG	14	0.13
(1,818)	1:107:A:GLU:H	1:108:A:ILE:HG12	10	0.13
(1,816)	1:107:A:GLU:H	1:108:A:ILE:HD11	18	0.13
(1,816)	1:107:A:GLU:H	1:108:A:ILE:HD12	18	0.13
(1,816)	1:107:A:GLU:H	1:108:A:ILE:HD13	18	0.13
(1,765)	1:105:A:ILE:HG12	1:124:A:VAL:H	8	0.13
(1,765)	1:105:A:ILE:HG13	1:124:A:VAL:H	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,765)	1:105:A:ILE:HG12	1:124:A:VAL:H	14	0.13
(1,765)	1:105:A:ILE:HG13	1:124:A:VAL:H	14	0.13
(1,757)	1:105:A:ILE:HD11	1:122:A:ALA:HB1	11	0.13
(1,757)	1:105:A:ILE:HD11	1:122:A:ALA:HB2	11	0.13
(1,757)	1:105:A:ILE:HD11	1:122:A:ALA:HB3	11	0.13
(1,757)	1:105:A:ILE:HD12	1:122:A:ALA:HB1	11	0.13
(1,757)	1:105:A:ILE:HD12	1:122:A:ALA:HB2	11	0.13
(1,757)	1:105:A:ILE:HD12	1:122:A:ALA:HB3	11	0.13
(1,757)	1:105:A:ILE:HD13	1:122:A:ALA:HB1	11	0.13
(1,757)	1:105:A:ILE:HD13	1:122:A:ALA:HB2	11	0.13
(1,757)	1:105:A:ILE:HD13	1:122:A:ALA:HB3	11	0.13
(1,732)	1:103:A:VAL:H	1:104:A:ASP:HA	7	0.13
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD11	12	0.13
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD12	12	0.13
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD13	12	0.13
(1,691)	1:100:A:GLU:HG2	1:101:A:ALA:H	12	0.13
(1,691)	1:100:A:GLU:HG3	1:101:A:ALA:H	12	0.13
(1,658)	1:97:A:GLY:HA2	1:98:A:ILE:H	13	0.13
(1,658)	1:97:A:GLY:HA3	1:98:A:ILE:H	13	0.13
(1,652)	1:96:A:GLY:HA2	1:100:A:GLU:H	13	0.13
(1,652)	1:96:A:GLY:HA3	1:100:A:GLU:H	13	0.13
(1,628)	1:92:A:GLU:H	1:92:A:GLU:HB2	11	0.13
(1,628)	1:92:A:GLU:H	1:92:A:GLU:HB3	11	0.13
(1,600)	1:88:A:GLU:H	1:88:A:GLU:HB2	15	0.13
(1,600)	1:88:A:GLU:H	1:88:A:GLU:HB3	15	0.13
(1,599)	1:88:A:GLU:HG2	1:90:A:ASP:H	15	0.13
(1,599)	1:88:A:GLU:HG3	1:90:A:ASP:H	15	0.13
(1,592)	1:88:A:GLU:HA	1:89:A:GLY:H	6	0.13
(1,592)	1:88:A:GLU:HA	1:89:A:GLY:H	10	0.13
(1,586)	1:87:A:TYR:HD1	1:88:A:GLU:H	15	0.13
(1,586)	1:87:A:TYR:HD2	1:88:A:GLU:H	15	0.13
(1,544)	1:76:A:MET:HB2	1:117:A:MET:H	4	0.13
(1,544)	1:76:A:MET:HB3	1:117:A:MET:H	4	0.13
(1,535)	1:75:A:LYS:H	1:116:A:PRO:HB2	1	0.13
(1,535)	1:75:A:LYS:H	1:116:A:PRO:HB2	11	0.13
(1,508)	1:71:A:LYS:HE2	1:72:A:CYS:H	10	0.13
(1,508)	1:71:A:LYS:HE3	1:72:A:CYS:H	10	0.13
(1,506)	1:71:A:LYS:HE2	1:103:A:VAL:H	18	0.13
(1,506)	1:71:A:LYS:HE3	1:103:A:VAL:H	18	0.13
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE1	11	0.13
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE2	11	0.13
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE3	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE1	11	0.13
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE2	11	0.13
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE3	11	0.13
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE1	11	0.13
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE2	11	0.13
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE3	11	0.13
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE1	15	0.13
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE2	15	0.13
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE3	15	0.13
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE1	15	0.13
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE2	15	0.13
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE3	15	0.13
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE1	15	0.13
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE2	15	0.13
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE3	15	0.13
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	3	0.13
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	3	0.13
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	3	0.13
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	4	0.13
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	4	0.13
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	4	0.13
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB2	7	0.13
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB3	7	0.13
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB2	12	0.13
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB3	12	0.13
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB2	17	0.13
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB3	17	0.13
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD11	9	0.13
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD12	9	0.13
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD13	9	0.13
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD11	11	0.13
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD12	11	0.13
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD13	11	0.13
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD11	12	0.13
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD12	12	0.13
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD13	12	0.13
(1,369)	1:62:A:GLY:HA2	1:65:A:ILE:H	6	0.13
(1,352)	1:60:A:THR:H	1:63:A:CYS:HB2	5	0.13
(1,346)	1:59:A:CYS:HA	1:134:A:CYS:H	7	0.13
(1,346)	1:59:A:CYS:HA	1:134:A:CYS:H	14	0.13
(1,341)	1:57:A:ALA:H	1:137:A:GLY:H	20	0.13
(1,277)	1:52:A:ALA:H	1:53:A:ASN:HB2	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE1	3	0.13
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE2	3	0.13
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE3	3	0.13
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE1	14	0.13
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE2	14	0.13
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE3	14	0.13
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD11	18	0.13
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD12	18	0.13
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD13	18	0.13
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD11	16	0.13
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD12	16	0.13
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD13	16	0.13
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD21	16	0.13
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD22	16	0.13
(1,186)	1:49:A:GLU:HB2	1:146:A:LEU:HD23	16	0.13
(1,149)	1:47:A:LEU:H	1:48:A:LYS:HB2	5	0.13
(1,149)	1:47:A:LEU:H	1:48:A:LYS:HB3	5	0.13
(1,143)	1:47:A:LEU:HD11	1:48:A:LYS:H	3	0.13
(1,143)	1:47:A:LEU:HD12	1:48:A:LYS:H	3	0.13
(1,143)	1:47:A:LEU:HD13	1:48:A:LYS:H	3	0.13
(1,143)	1:47:A:LEU:HD21	1:48:A:LYS:H	3	0.13
(1,143)	1:47:A:LEU:HD22	1:48:A:LYS:H	3	0.13
(1,143)	1:47:A:LEU:HD23	1:48:A:LYS:H	3	0.13
(1,143)	1:47:A:LEU:HD11	1:48:A:LYS:H	10	0.13
(1,143)	1:47:A:LEU:HD12	1:48:A:LYS:H	10	0.13
(1,143)	1:47:A:LEU:HD13	1:48:A:LYS:H	10	0.13
(1,143)	1:47:A:LEU:HD21	1:48:A:LYS:H	10	0.13
(1,143)	1:47:A:LEU:HD22	1:48:A:LYS:H	10	0.13
(1,143)	1:47:A:LEU:HD23	1:48:A:LYS:H	10	0.13
(1,143)	1:47:A:LEU:HD11	1:48:A:LYS:H	18	0.13
(1,143)	1:47:A:LEU:HD12	1:48:A:LYS:H	18	0.13
(1,143)	1:47:A:LEU:HD13	1:48:A:LYS:H	18	0.13
(1,143)	1:47:A:LEU:HD21	1:48:A:LYS:H	18	0.13
(1,143)	1:47:A:LEU:HD22	1:48:A:LYS:H	18	0.13
(1,143)	1:47:A:LEU:HD23	1:48:A:LYS:H	18	0.13
(1,143)	1:47:A:LEU:HD11	1:48:A:LYS:H	19	0.13
(1,143)	1:47:A:LEU:HD12	1:48:A:LYS:H	19	0.13
(1,143)	1:47:A:LEU:HD13	1:48:A:LYS:H	19	0.13
(1,143)	1:47:A:LEU:HD21	1:48:A:LYS:H	19	0.13
(1,143)	1:47:A:LEU:HD22	1:48:A:LYS:H	19	0.13
(1,143)	1:47:A:LEU:HD23	1:48:A:LYS:H	19	0.13
(1,130)	1:46:A:VAL:H	1:146:A:LEU:HD11	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,130)	1:46:A:VAL:H	1:146:A:LEU:HD12	15	0.13
(1,130)	1:46:A:VAL:H	1:146:A:LEU:HD13	15	0.13
(1,130)	1:46:A:VAL:H	1:146:A:LEU:HD21	15	0.13
(1,130)	1:46:A:VAL:H	1:146:A:LEU:HD22	15	0.13
(1,130)	1:46:A:VAL:H	1:146:A:LEU:HD23	15	0.13
(1,118)	1:46:A:VAL:HG11	1:150:A:TRP:HZ2	14	0.13
(1,118)	1:46:A:VAL:HG12	1:150:A:TRP:HZ2	14	0.13
(1,118)	1:46:A:VAL:HG13	1:150:A:TRP:HZ2	14	0.13
(1,118)	1:46:A:VAL:HG21	1:150:A:TRP:HZ2	14	0.13
(1,118)	1:46:A:VAL:HG22	1:150:A:TRP:HZ2	14	0.13
(1,118)	1:46:A:VAL:HG23	1:150:A:TRP:HZ2	14	0.13
(1,84)	1:45:A:GLU:HB2	1:46:A:VAL:H	11	0.13
(1,84)	1:45:A:GLU:HB3	1:46:A:VAL:H	11	0.13
(1,37)	1:36:A:LYS:H	1:36:A:LYS:HB2	15	0.13
(1,37)	1:36:A:LYS:H	1:36:A:LYS:HB3	15	0.13
(1,16)	1:32:A:ALA:H	1:34:A:ARG:HG2	10	0.13
(1,16)	1:32:A:ALA:H	1:34:A:ARG:HG3	10	0.13
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB1	11	0.13
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB2	11	0.13
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB3	11	0.13
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB1	12	0.13
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB2	12	0.13
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB3	12	0.13
(1,2)	1:31:A:ASP:HA	1:34:A:ARG:HD2	1	0.13
(1,2)	1:31:A:ASP:HA	1:34:A:ARG:HD3	1	0.13
(1,2)	1:31:A:ASP:HA	1:34:A:ARG:HD2	15	0.13
(1,2)	1:31:A:ASP:HA	1:34:A:ARG:HD3	15	0.13
(1,2)	1:31:A:ASP:HA	1:34:A:ARG:HD2	16	0.13
(1,2)	1:31:A:ASP:HA	1:34:A:ARG:HD3	16	0.13
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD11	9	0.12
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD12	9	0.12
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD13	9	0.12
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD11	13	0.12
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD12	13	0.12
(1,1524)	1:111:A:PHE:HD2	1:114:A:LEU:HD13	13	0.12
(1,1520)	1:108:A:ILE:HD11	1:111:A:PHE:HD2	7	0.12
(1,1520)	1:108:A:ILE:HD12	1:111:A:PHE:HD2	7	0.12
(1,1520)	1:108:A:ILE:HD13	1:111:A:PHE:HD2	7	0.12
(1,1511)	1:103:A:VAL:HB	1:111:A:PHE:HE2	11	0.12
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD11	2	0.12
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD12	2	0.12
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD13	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD11	2	0.12
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD12	2	0.12
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD13	2	0.12
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD11	14	0.12
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD12	14	0.12
(1,1509)	1:75:A:LYS:HG2	1:80:A:ILE:HD13	14	0.12
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD11	14	0.12
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD12	14	0.12
(1,1509)	1:75:A:LYS:HG3	1:80:A:ILE:HD13	14	0.12
(1,1494)	1:66:A:CYS:HA	1:124:A:VAL:H	13	0.12
(1,1490)	1:65:A:ILE:HD11	1:124:A:VAL:HA	14	0.12
(1,1490)	1:65:A:ILE:HD12	1:124:A:VAL:HA	14	0.12
(1,1490)	1:65:A:ILE:HD13	1:124:A:VAL:HA	14	0.12
(1,1489)	1:65:A:ILE:HG13	1:127:A:CYS:H	9	0.12
(1,1483)	1:65:A:ILE:HG12	1:126:A:LEU:H	8	0.12
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD21	5	0.12
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD22	5	0.12
(1,1473)	1:63:A:CYS:H	1:67:A:LEU:HD23	5	0.12
(1,1455)	1:51:A:GLU:HB2	1:54:A:ALA:H	7	0.12
(1,1442)	1:43:A:PRO:HB2	1:46:A:VAL:HG11	5	0.12
(1,1442)	1:43:A:PRO:HB2	1:46:A:VAL:HG12	5	0.12
(1,1442)	1:43:A:PRO:HB2	1:46:A:VAL:HG13	5	0.12
(1,1413)	1:168:A:LYS:H	1:168:A:LYS:HB2	19	0.12
(1,1413)	1:168:A:LYS:H	1:168:A:LYS:HB3	19	0.12
(1,1411)	1:168:A:LYS:HE2	1:169:A:ILE:H	12	0.12
(1,1411)	1:168:A:LYS:HE3	1:169:A:ILE:H	12	0.12
(1,1403)	1:167:A:ASP:H	1:168:A:LYS:H	11	0.12
(1,1397)	1:166:A:VAL:H	1:166:A:VAL:HB	1	0.12
(1,1389)	1:165:A:GLN:HG2	1:167:A:ASP:H	20	0.12
(1,1389)	1:165:A:GLN:HG3	1:167:A:ASP:H	20	0.12
(1,1370)	1:162:A:ILE:H	1:163:A:GLN:H	15	0.12
(1,1350)	1:160:A:SER:HA	1:161:A:LYS:HB2	2	0.12
(1,1350)	1:160:A:SER:HA	1:161:A:LYS:HB3	2	0.12
(1,1342)	1:157:A:THR:H	1:158:A:PHE:H	6	0.12
(1,1338)	1:157:A:THR:HA	1:157:A:THR:HG21	2	0.12
(1,1338)	1:157:A:THR:HA	1:157:A:THR:HG22	2	0.12
(1,1338)	1:157:A:THR:HA	1:157:A:THR:HG23	2	0.12
(1,1338)	1:157:A:THR:HA	1:157:A:THR:HG21	19	0.12
(1,1338)	1:157:A:THR:HA	1:157:A:THR:HG22	19	0.12
(1,1338)	1:157:A:THR:HA	1:157:A:THR:HG23	19	0.12
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD11	1	0.12
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD12	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD13	1	0.12
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD21	1	0.12
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD22	1	0.12
(1,1320)	1:150:A:TRP:H	1:151:A:LEU:HD23	1	0.12
(1,1319)	1:150:A:TRP:H	1:151:A:LEU:HB2	5	0.12
(1,1319)	1:150:A:TRP:H	1:151:A:LEU:HB3	5	0.12
(1,1315)	1:150:A:TRP:HH2	1:162:A:ILE:HB	15	0.12
(1,1305)	1:149:A:LYS:H	1:150:A:TRP:HB2	14	0.12
(1,1290)	1:149:A:LYS:HE2	1:150:A:TRP:HZ2	3	0.12
(1,1290)	1:149:A:LYS:HE3	1:150:A:TRP:HZ2	3	0.12
(1,1280)	1:149:A:LYS:HD2	1:150:A:TRP:HD1	2	0.12
(1,1280)	1:149:A:LYS:HD3	1:150:A:TRP:HD1	2	0.12
(1,1250)	1:147:A:LEU:H	1:147:A:LEU:HD11	16	0.12
(1,1250)	1:147:A:LEU:H	1:147:A:LEU:HD12	16	0.12
(1,1250)	1:147:A:LEU:H	1:147:A:LEU:HD13	16	0.12
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD11	7	0.12
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD12	7	0.12
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD13	7	0.12
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD11	7	0.12
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD12	7	0.12
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD13	7	0.12
(1,1206)	1:145:A:ASP:HA	1:149:A:LYS:H	5	0.12
(1,1121)	1:129:A:ASP:H	1:130:A:CYS:HB2	5	0.12
(1,1121)	1:129:A:ASP:H	1:130:A:CYS:HB3	5	0.12
(1,1121)	1:129:A:ASP:H	1:130:A:CYS:HB2	6	0.12
(1,1121)	1:129:A:ASP:H	1:130:A:CYS:HB3	6	0.12
(1,1121)	1:129:A:ASP:H	1:130:A:CYS:HB2	7	0.12
(1,1121)	1:129:A:ASP:H	1:130:A:CYS:HB3	7	0.12
(1,1118)	1:129:A:ASP:HB2	1:130:A:CYS:H	1	0.12
(1,1118)	1:129:A:ASP:HB3	1:130:A:CYS:H	1	0.12
(1,1118)	1:129:A:ASP:HB2	1:130:A:CYS:H	18	0.12
(1,1118)	1:129:A:ASP:HB3	1:130:A:CYS:H	18	0.12
(1,1110)	1:128:A:VAL:H	1:128:A:VAL:HG11	4	0.12
(1,1110)	1:128:A:VAL:H	1:128:A:VAL:HG12	4	0.12
(1,1110)	1:128:A:VAL:H	1:128:A:VAL:HG13	4	0.12
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG21	13	0.12
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG22	13	0.12
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG23	13	0.12
(1,1012)	1:121:A:ILE:HG21	1:122:A:ALA:H	15	0.12
(1,1012)	1:121:A:ILE:HG22	1:122:A:ALA:H	15	0.12
(1,1012)	1:121:A:ILE:HG23	1:122:A:ALA:H	15	0.12
(1,932)	1:114:A:LEU:HG	1:119:A:GLN:H	12	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD21	11	0.12
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD22	11	0.12
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD23	11	0.12
(1,898)	1:113:A:ASP:H	1:114:A:LEU:HD11	1	0.12
(1,898)	1:113:A:ASP:H	1:114:A:LEU:HD12	1	0.12
(1,898)	1:113:A:ASP:H	1:114:A:LEU:HD13	1	0.12
(1,891)	1:112:A:LYS:H	1:113:A:ASP:HB2	15	0.12
(1,891)	1:112:A:LYS:H	1:113:A:ASP:HB3	15	0.12
(1,859)	1:109:A:PRO:HA	1:111:A:PHE:H	6	0.12
(1,859)	1:109:A:PRO:HA	1:111:A:PHE:H	15	0.12
(1,830)	1:108:A:ILE:HD11	1:114:A:LEU:HG	17	0.12
(1,830)	1:108:A:ILE:HD12	1:114:A:LEU:HG	17	0.12
(1,830)	1:108:A:ILE:HD13	1:114:A:LEU:HG	17	0.12
(1,818)	1:107:A:GLU:H	1:108:A:ILE:HG12	6	0.12
(1,816)	1:107:A:GLU:H	1:108:A:ILE:HD11	9	0.12
(1,816)	1:107:A:GLU:H	1:108:A:ILE:HD12	9	0.12
(1,816)	1:107:A:GLU:H	1:108:A:ILE:HD13	9	0.12
(1,796)	1:105:A:ILE:H	1:123:A:GLN:HA	19	0.12
(1,796)	1:105:A:ILE:H	1:123:A:GLN:HA	20	0.12
(1,765)	1:105:A:ILE:HG12	1:124:A:VAL:H	5	0.12
(1,765)	1:105:A:ILE:HG13	1:124:A:VAL:H	5	0.12
(1,761)	1:105:A:ILE:HD11	1:124:A:VAL:H	7	0.12
(1,761)	1:105:A:ILE:HD12	1:124:A:VAL:H	7	0.12
(1,761)	1:105:A:ILE:HD13	1:124:A:VAL:H	7	0.12
(1,761)	1:105:A:ILE:HD11	1:124:A:VAL:H	10	0.12
(1,761)	1:105:A:ILE:HD12	1:124:A:VAL:H	10	0.12
(1,761)	1:105:A:ILE:HD13	1:124:A:VAL:H	10	0.12
(1,761)	1:105:A:ILE:HD11	1:124:A:VAL:H	12	0.12
(1,761)	1:105:A:ILE:HD12	1:124:A:VAL:H	12	0.12
(1,761)	1:105:A:ILE:HD13	1:124:A:VAL:H	12	0.12
(1,761)	1:105:A:ILE:HD11	1:124:A:VAL:H	19	0.12
(1,761)	1:105:A:ILE:HD12	1:124:A:VAL:H	19	0.12
(1,761)	1:105:A:ILE:HD13	1:124:A:VAL:H	19	0.12
(1,760)	1:105:A:ILE:HD11	1:123:A:GLN:H	6	0.12
(1,760)	1:105:A:ILE:HD12	1:123:A:GLN:H	6	0.12
(1,760)	1:105:A:ILE:HD13	1:123:A:GLN:H	6	0.12
(1,760)	1:105:A:ILE:HD11	1:123:A:GLN:H	9	0.12
(1,760)	1:105:A:ILE:HD12	1:123:A:GLN:H	9	0.12
(1,760)	1:105:A:ILE:HD13	1:123:A:GLN:H	9	0.12
(1,757)	1:105:A:ILE:HD11	1:122:A:ALA:HB1	1	0.12
(1,757)	1:105:A:ILE:HD11	1:122:A:ALA:HB2	1	0.12
(1,757)	1:105:A:ILE:HD11	1:122:A:ALA:HB3	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,757)	1:105:A:ILE:HD12	1:122:A:ALA:HB1	1	0.12
(1,757)	1:105:A:ILE:HD12	1:122:A:ALA:HB2	1	0.12
(1,757)	1:105:A:ILE:HD12	1:122:A:ALA:HB3	1	0.12
(1,757)	1:105:A:ILE:HD13	1:122:A:ALA:HB1	1	0.12
(1,757)	1:105:A:ILE:HD13	1:122:A:ALA:HB2	1	0.12
(1,757)	1:105:A:ILE:HD13	1:122:A:ALA:HB3	1	0.12
(1,757)	1:105:A:ILE:HD11	1:122:A:ALA:HB1	18	0.12
(1,757)	1:105:A:ILE:HD11	1:122:A:ALA:HB2	18	0.12
(1,757)	1:105:A:ILE:HD11	1:122:A:ALA:HB3	18	0.12
(1,757)	1:105:A:ILE:HD12	1:122:A:ALA:HB1	18	0.12
(1,757)	1:105:A:ILE:HD12	1:122:A:ALA:HB2	18	0.12
(1,757)	1:105:A:ILE:HD12	1:122:A:ALA:HB3	18	0.12
(1,757)	1:105:A:ILE:HD13	1:122:A:ALA:HB1	18	0.12
(1,757)	1:105:A:ILE:HD13	1:122:A:ALA:HB2	18	0.12
(1,757)	1:105:A:ILE:HD13	1:122:A:ALA:HB3	18	0.12
(1,732)	1:103:A:VAL:H	1:104:A:ASP:HA	4	0.12
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD11	17	0.12
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD12	17	0.12
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD13	17	0.12
(1,707)	1:102:A:ILE:HB	1:103:A:VAL:H	5	0.12
(1,707)	1:102:A:ILE:HB	1:103:A:VAL:H	6	0.12
(1,707)	1:102:A:ILE:HB	1:103:A:VAL:H	18	0.12
(1,691)	1:100:A:GLU:HG2	1:101:A:ALA:H	14	0.12
(1,691)	1:100:A:GLU:HG3	1:101:A:ALA:H	14	0.12
(1,682)	1:99:A:GLY:HA2	1:100:A:GLU:HG2	9	0.12
(1,682)	1:99:A:GLY:HA2	1:100:A:GLU:HG3	9	0.12
(1,682)	1:99:A:GLY:HA3	1:100:A:GLU:HG2	9	0.12
(1,682)	1:99:A:GLY:HA3	1:100:A:GLU:HG3	9	0.12
(1,682)	1:99:A:GLY:HA2	1:100:A:GLU:HG2	14	0.12
(1,682)	1:99:A:GLY:HA2	1:100:A:GLU:HG3	14	0.12
(1,682)	1:99:A:GLY:HA3	1:100:A:GLU:HG2	14	0.12
(1,682)	1:99:A:GLY:HA3	1:100:A:GLU:HG3	14	0.12
(1,658)	1:97:A:GLY:HA2	1:98:A:ILE:H	10	0.12
(1,658)	1:97:A:GLY:HA3	1:98:A:ILE:H	10	0.12
(1,658)	1:97:A:GLY:HA2	1:98:A:ILE:H	16	0.12
(1,658)	1:97:A:GLY:HA3	1:98:A:ILE:H	16	0.12
(1,617)	1:91:A:LYS:HB2	1:93:A:SER:H	2	0.12
(1,617)	1:91:A:LYS:HB3	1:93:A:SER:H	2	0.12
(1,617)	1:91:A:LYS:HB2	1:93:A:SER:H	17	0.12
(1,617)	1:91:A:LYS:HB3	1:93:A:SER:H	17	0.12
(1,606)	1:90:A:ASP:HA	1:91:A:LYS:H	6	0.12
(1,604)	1:89:A:GLY:HA2	1:90:A:ASP:H	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,604)	1:89:A:GLY:HA3	1:90:A:ASP:H	4	0.12
(1,604)	1:89:A:GLY:HA2	1:90:A:ASP:H	8	0.12
(1,604)	1:89:A:GLY:HA3	1:90:A:ASP:H	8	0.12
(1,599)	1:88:A:GLU:HG2	1:90:A:ASP:H	12	0.12
(1,599)	1:88:A:GLU:HG3	1:90:A:ASP:H	12	0.12
(1,563)	1:76:A:MET:H	1:78:A:LYS:H	12	0.12
(1,554)	1:76:A:MET:HE1	1:122:A:ALA:H	18	0.12
(1,554)	1:76:A:MET:HE2	1:122:A:ALA:H	18	0.12
(1,554)	1:76:A:MET:HE3	1:122:A:ALA:H	18	0.12
(1,530)	1:75:A:LYS:HB2	1:116:A:PRO:HB2	10	0.12
(1,530)	1:75:A:LYS:HB3	1:116:A:PRO:HB2	10	0.12
(1,530)	1:75:A:LYS:HB2	1:116:A:PRO:HB2	20	0.12
(1,530)	1:75:A:LYS:HB3	1:116:A:PRO:HB2	20	0.12
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE1	19	0.12
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE2	19	0.12
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE3	19	0.12
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE1	19	0.12
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE2	19	0.12
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE3	19	0.12
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE1	19	0.12
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE2	19	0.12
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE3	19	0.12
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	8	0.12
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	8	0.12
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	8	0.12
(1,485)	1:70:A:ILE:HG21	1:123:A:GLN:H	17	0.12
(1,485)	1:70:A:ILE:HG22	1:123:A:GLN:H	17	0.12
(1,485)	1:70:A:ILE:HG23	1:123:A:GLN:H	17	0.12
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB2	18	0.12
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB3	18	0.12
(1,426)	1:66:A:CYS:HA	1:70:A:ILE:H	5	0.12
(1,426)	1:66:A:CYS:HA	1:70:A:ILE:H	6	0.12
(1,426)	1:66:A:CYS:HA	1:70:A:ILE:H	15	0.12
(1,424)	1:66:A:CYS:HA	1:69:A:HIS:H	4	0.12
(1,415)	1:65:A:ILE:HG21	1:68:A:SER:HA	11	0.12
(1,415)	1:65:A:ILE:HG22	1:68:A:SER:HA	11	0.12
(1,415)	1:65:A:ILE:HG23	1:68:A:SER:HA	11	0.12
(1,415)	1:65:A:ILE:HG21	1:68:A:SER:HA	14	0.12
(1,415)	1:65:A:ILE:HG22	1:68:A:SER:HA	14	0.12
(1,415)	1:65:A:ILE:HG23	1:68:A:SER:HA	14	0.12
(1,373)	1:62:A:GLY:H	1:65:A:ILE:HD11	14	0.12
(1,373)	1:62:A:GLY:H	1:65:A:ILE:HD12	14	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,373)	1:62:A:GLY:H	1:65:A:ILE:HD13	14	0.12
(1,369)	1:62:A:GLY:HA2	1:65:A:ILE:H	3	0.12
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD11	11	0.12
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD12	11	0.12
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD13	11	0.12
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD11	11	0.12
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD12	11	0.12
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD13	11	0.12
(1,341)	1:57:A:ALA:H	1:137:A:GLY:H	4	0.12
(1,277)	1:52:A:ALA:H	1:53:A:ASN:HB2	13	0.12
(1,235)	1:50:A:MET:HE1	1:147:A:LEU:HA	19	0.12
(1,235)	1:50:A:MET:HE2	1:147:A:LEU:HA	19	0.12
(1,235)	1:50:A:MET:HE3	1:147:A:LEU:HA	19	0.12
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE1	8	0.12
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE2	8	0.12
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE3	8	0.12
(1,175)	1:49:A:GLU:HA	1:52:A:ALA:HB1	7	0.12
(1,175)	1:49:A:GLU:HA	1:52:A:ALA:HB2	7	0.12
(1,175)	1:49:A:GLU:HA	1:52:A:ALA:HB3	7	0.12
(1,175)	1:49:A:GLU:HA	1:52:A:ALA:HB1	8	0.12
(1,175)	1:49:A:GLU:HA	1:52:A:ALA:HB2	8	0.12
(1,175)	1:49:A:GLU:HA	1:52:A:ALA:HB3	8	0.12
(1,175)	1:49:A:GLU:HA	1:52:A:ALA:HB1	14	0.12
(1,175)	1:49:A:GLU:HA	1:52:A:ALA:HB2	14	0.12
(1,175)	1:49:A:GLU:HA	1:52:A:ALA:HB3	14	0.12
(1,169)	1:48:A:LYS:H	1:49:A:GLU:HA	11	0.12
(1,142)	1:47:A:LEU:HD11	1:48:A:LYS:HG2	8	0.12
(1,142)	1:47:A:LEU:HD11	1:48:A:LYS:HG3	8	0.12
(1,142)	1:47:A:LEU:HD12	1:48:A:LYS:HG2	8	0.12
(1,142)	1:47:A:LEU:HD12	1:48:A:LYS:HG3	8	0.12
(1,142)	1:47:A:LEU:HD13	1:48:A:LYS:HG2	8	0.12
(1,142)	1:47:A:LEU:HD13	1:48:A:LYS:HG3	8	0.12
(1,142)	1:47:A:LEU:HD21	1:48:A:LYS:HG2	8	0.12
(1,142)	1:47:A:LEU:HD21	1:48:A:LYS:HG3	8	0.12
(1,142)	1:47:A:LEU:HD22	1:48:A:LYS:HG2	8	0.12
(1,142)	1:47:A:LEU:HD22	1:48:A:LYS:HG3	8	0.12
(1,142)	1:47:A:LEU:HD23	1:48:A:LYS:HG2	8	0.12
(1,142)	1:47:A:LEU:HD23	1:48:A:LYS:HG3	8	0.12
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD11	6	0.12
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD12	6	0.12
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD13	6	0.12
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD21	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD22	6	0.12
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD23	6	0.12
(1,64)	1:44:A:LEU:HD11	1:45:A:GLU:HA	4	0.12
(1,64)	1:44:A:LEU:HD12	1:45:A:GLU:HA	4	0.12
(1,64)	1:44:A:LEU:HD13	1:45:A:GLU:HA	4	0.12
(1,64)	1:44:A:LEU:HD21	1:45:A:GLU:HA	4	0.12
(1,64)	1:44:A:LEU:HD22	1:45:A:GLU:HA	4	0.12
(1,64)	1:44:A:LEU:HD23	1:45:A:GLU:HA	4	0.12
(1,47)	1:43:A:PRO:HB3	1:45:A:GLU:H	17	0.12
(1,37)	1:36:A:LYS:H	1:36:A:LYS:HB2	6	0.12
(1,37)	1:36:A:LYS:H	1:36:A:LYS:HB3	6	0.12
(2,2)	1:102:A:ILE:HD11	1:105:A:ILE:HD11	10	0.11
(2,2)	1:102:A:ILE:HD11	1:105:A:ILE:HD12	10	0.11
(2,2)	1:102:A:ILE:HD11	1:105:A:ILE:HD13	10	0.11
(2,2)	1:102:A:ILE:HD12	1:105:A:ILE:HD11	10	0.11
(2,2)	1:102:A:ILE:HD12	1:105:A:ILE:HD12	10	0.11
(2,2)	1:102:A:ILE:HD12	1:105:A:ILE:HD13	10	0.11
(2,2)	1:102:A:ILE:HD13	1:105:A:ILE:HD11	10	0.11
(2,2)	1:102:A:ILE:HD13	1:105:A:ILE:HD12	10	0.11
(2,2)	1:102:A:ILE:HD13	1:105:A:ILE:HD13	10	0.11
(2,1)	1:66:A:CYS:H	1:70:A:ILE:H	2	0.11
(2,1)	1:66:A:CYS:H	1:70:A:ILE:H	17	0.11
(2,1)	1:66:A:CYS:H	1:70:A:ILE:H	20	0.11
(1,1550)	1:120:A:PHE:HE1	1:124:A:VAL:HG21	20	0.11
(1,1550)	1:120:A:PHE:HE1	1:124:A:VAL:HG22	20	0.11
(1,1550)	1:120:A:PHE:HE1	1:124:A:VAL:HG23	20	0.11
(1,1501)	1:70:A:ILE:HD11	1:120:A:PHE:HD1	9	0.11
(1,1501)	1:70:A:ILE:HD12	1:120:A:PHE:HD1	9	0.11
(1,1501)	1:70:A:ILE:HD13	1:120:A:PHE:HD1	9	0.11
(1,1483)	1:65:A:ILE:HG12	1:126:A:LEU:H	3	0.11
(1,1483)	1:65:A:ILE:HG12	1:126:A:LEU:H	9	0.11
(1,1474)	1:64:A:LEU:H	1:67:A:LEU:H	3	0.11
(1,1474)	1:64:A:LEU:H	1:67:A:LEU:H	15	0.11
(1,1455)	1:51:A:GLU:HB2	1:54:A:ALA:H	4	0.11
(1,1455)	1:51:A:GLU:HB2	1:54:A:ALA:H	14	0.11
(1,1418)	1:169:A:ILE:HB	1:170:A:LYS:H	9	0.11
(1,1413)	1:168:A:LYS:H	1:168:A:LYS:HB2	12	0.11
(1,1413)	1:168:A:LYS:H	1:168:A:LYS:HB3	12	0.11
(1,1400)	1:166:A:VAL:H	1:167:A:ASP:H	15	0.11
(1,1380)	1:164:A:GLY:H	1:165:A:GLN:H	5	0.11
(1,1367)	1:162:A:ILE:H	1:162:A:ILE:HD11	9	0.11
(1,1367)	1:162:A:ILE:H	1:162:A:ILE:HD12	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1367)	1:162:A:ILE:H	1:162:A:ILE:HD13	9	0.11
(1,1342)	1:157:A:THR:H	1:158:A:PHE:H	9	0.11
(1,1336)	1:156:A:ALA:H	1:157:A:THR:HA	6	0.11
(1,1299)	1:149:A:LYS:H	1:149:A:LYS:HE3	4	0.11
(1,1299)	1:149:A:LYS:H	1:149:A:LYS:HE3	18	0.11
(1,1290)	1:149:A:LYS:HE2	1:150:A:TRP:HZ2	11	0.11
(1,1290)	1:149:A:LYS:HE3	1:150:A:TRP:HZ2	11	0.11
(1,1290)	1:149:A:LYS:HE2	1:150:A:TRP:HZ2	14	0.11
(1,1290)	1:149:A:LYS:HE3	1:150:A:TRP:HZ2	14	0.11
(1,1287)	1:149:A:LYS:HE3	1:150:A:TRP:HE1	18	0.11
(1,1284)	1:149:A:LYS:HD2	1:150:A:TRP:HZ2	10	0.11
(1,1284)	1:149:A:LYS:HD3	1:150:A:TRP:HZ2	10	0.11
(1,1280)	1:149:A:LYS:HD2	1:150:A:TRP:HD1	17	0.11
(1,1280)	1:149:A:LYS:HD3	1:150:A:TRP:HD1	17	0.11
(1,1264)	1:148:A:LYS:HD2	1:149:A:LYS:H	17	0.11
(1,1264)	1:148:A:LYS:HD3	1:149:A:LYS:H	17	0.11
(1,1145)	1:132:A:THR:HG21	1:136:A:LYS:H	18	0.11
(1,1145)	1:132:A:THR:HG22	1:136:A:LYS:H	18	0.11
(1,1145)	1:132:A:THR:HG23	1:136:A:LYS:H	18	0.11
(1,1126)	1:130:A:CYS:H	1:131:A:THR:HA	9	0.11
(1,1126)	1:130:A:CYS:H	1:131:A:THR:HA	10	0.11
(1,1126)	1:130:A:CYS:H	1:131:A:THR:HA	11	0.11
(1,1126)	1:130:A:CYS:H	1:131:A:THR:HA	12	0.11
(1,1126)	1:130:A:CYS:H	1:131:A:THR:HA	20	0.11
(1,1118)	1:129:A:ASP:HB2	1:130:A:CYS:H	20	0.11
(1,1118)	1:129:A:ASP:HB3	1:130:A:CYS:H	20	0.11
(1,1116)	1:129:A:ASP:HB3	1:130:A:CYS:H	10	0.11
(1,1116)	1:129:A:ASP:HB3	1:130:A:CYS:H	16	0.11
(1,1110)	1:128:A:VAL:H	1:128:A:VAL:HG11	3	0.11
(1,1110)	1:128:A:VAL:H	1:128:A:VAL:HG12	3	0.11
(1,1110)	1:128:A:VAL:H	1:128:A:VAL:HG13	3	0.11
(1,1072)	1:125:A:ASP:H	1:127:A:CYS:H	1	0.11
(1,1072)	1:125:A:ASP:H	1:127:A:CYS:H	3	0.11
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG21	5	0.11
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG22	5	0.11
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG23	5	0.11
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG21	6	0.11
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG22	6	0.11
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG23	6	0.11
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG21	15	0.11
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG22	15	0.11
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG23	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG21	16	0.11
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG22	16	0.11
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG23	16	0.11
(1,1056)	1:124:A:VAL:HG11	1:127:A:CYS:H	9	0.11
(1,1056)	1:124:A:VAL:HG12	1:127:A:CYS:H	9	0.11
(1,1056)	1:124:A:VAL:HG13	1:127:A:CYS:H	9	0.11
(1,1056)	1:124:A:VAL:HG11	1:127:A:CYS:H	13	0.11
(1,1056)	1:124:A:VAL:HG12	1:127:A:CYS:H	13	0.11
(1,1056)	1:124:A:VAL:HG13	1:127:A:CYS:H	13	0.11
(1,1052)	1:124:A:VAL:HB	1:127:A:CYS:H	15	0.11
(1,1037)	1:123:A:GLN:HA	1:126:A:LEU:H	17	0.11
(1,932)	1:114:A:LEU:HG	1:119:A:GLN:H	2	0.11
(1,932)	1:114:A:LEU:HG	1:119:A:GLN:H	3	0.11
(1,932)	1:114:A:LEU:HG	1:119:A:GLN:H	4	0.11
(1,932)	1:114:A:LEU:HG	1:119:A:GLN:H	7	0.11
(1,932)	1:114:A:LEU:HG	1:119:A:GLN:H	13	0.11
(1,932)	1:114:A:LEU:HG	1:119:A:GLN:H	14	0.11
(1,919)	1:114:A:LEU:HD11	1:118:A:GLU:HB3	1	0.11
(1,919)	1:114:A:LEU:HD12	1:118:A:GLU:HB3	1	0.11
(1,919)	1:114:A:LEU:HD13	1:118:A:GLU:HB3	1	0.11
(1,919)	1:114:A:LEU:HD11	1:118:A:GLU:HB3	7	0.11
(1,919)	1:114:A:LEU:HD12	1:118:A:GLU:HB3	7	0.11
(1,919)	1:114:A:LEU:HD13	1:118:A:GLU:HB3	7	0.11
(1,919)	1:114:A:LEU:HD11	1:118:A:GLU:HB3	11	0.11
(1,919)	1:114:A:LEU:HD12	1:118:A:GLU:HB3	11	0.11
(1,919)	1:114:A:LEU:HD13	1:118:A:GLU:HB3	11	0.11
(1,919)	1:114:A:LEU:HD11	1:118:A:GLU:HB3	16	0.11
(1,919)	1:114:A:LEU:HD12	1:118:A:GLU:HB3	16	0.11
(1,919)	1:114:A:LEU:HD13	1:118:A:GLU:HB3	16	0.11
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD21	10	0.11
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD22	10	0.11
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD23	10	0.11
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD21	20	0.11
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD22	20	0.11
(1,899)	1:113:A:ASP:H	1:114:A:LEU:HD23	20	0.11
(1,898)	1:113:A:ASP:H	1:114:A:LEU:HD11	9	0.11
(1,898)	1:113:A:ASP:H	1:114:A:LEU:HD12	9	0.11
(1,898)	1:113:A:ASP:H	1:114:A:LEU:HD13	9	0.11
(1,891)	1:112:A:LYS:H	1:113:A:ASP:HB2	13	0.11
(1,891)	1:112:A:LYS:H	1:113:A:ASP:HB3	13	0.11
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE2	1	0.11
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE3	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE2	11	0.11
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE3	11	0.11
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE2	13	0.11
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE3	13	0.11
(1,876)	1:111:A:PHE:HB2	1:112:A:LYS:H	9	0.11
(1,865)	1:109:A:PRO:HG2	1:114:A:LEU:HD21	8	0.11
(1,865)	1:109:A:PRO:HG2	1:114:A:LEU:HD22	8	0.11
(1,865)	1:109:A:PRO:HG2	1:114:A:LEU:HD23	8	0.11
(1,865)	1:109:A:PRO:HG3	1:114:A:LEU:HD21	8	0.11
(1,865)	1:109:A:PRO:HG3	1:114:A:LEU:HD22	8	0.11
(1,865)	1:109:A:PRO:HG3	1:114:A:LEU:HD23	8	0.11
(1,856)	1:108:A:ILE:H	1:111:A:PHE:HB3	2	0.11
(1,830)	1:108:A:ILE:HD11	1:114:A:LEU:HG	13	0.11
(1,830)	1:108:A:ILE:HD12	1:114:A:LEU:HG	13	0.11
(1,830)	1:108:A:ILE:HD13	1:114:A:LEU:HG	13	0.11
(1,818)	1:107:A:GLU:H	1:108:A:ILE:HG12	2	0.11
(1,818)	1:107:A:GLU:H	1:108:A:ILE:HG12	7	0.11
(1,818)	1:107:A:GLU:H	1:108:A:ILE:HG12	20	0.11
(1,816)	1:107:A:GLU:H	1:108:A:ILE:HD11	11	0.11
(1,816)	1:107:A:GLU:H	1:108:A:ILE:HD12	11	0.11
(1,816)	1:107:A:GLU:H	1:108:A:ILE:HD13	11	0.11
(1,796)	1:105:A:ILE:H	1:123:A:GLN:HA	11	0.11
(1,765)	1:105:A:ILE:HG12	1:124:A:VAL:H	16	0.11
(1,765)	1:105:A:ILE:HG13	1:124:A:VAL:H	16	0.11
(1,761)	1:105:A:ILE:HD11	1:124:A:VAL:H	8	0.11
(1,761)	1:105:A:ILE:HD12	1:124:A:VAL:H	8	0.11
(1,761)	1:105:A:ILE:HD13	1:124:A:VAL:H	8	0.11
(1,760)	1:105:A:ILE:HD11	1:123:A:GLN:H	12	0.11
(1,760)	1:105:A:ILE:HD12	1:123:A:GLN:H	12	0.11
(1,760)	1:105:A:ILE:HD13	1:123:A:GLN:H	12	0.11
(1,760)	1:105:A:ILE:HD11	1:123:A:GLN:H	14	0.11
(1,760)	1:105:A:ILE:HD12	1:123:A:GLN:H	14	0.11
(1,760)	1:105:A:ILE:HD13	1:123:A:GLN:H	14	0.11
(1,760)	1:105:A:ILE:HD11	1:123:A:GLN:H	16	0.11
(1,760)	1:105:A:ILE:HD12	1:123:A:GLN:H	16	0.11
(1,760)	1:105:A:ILE:HD13	1:123:A:GLN:H	16	0.11
(1,760)	1:105:A:ILE:HD11	1:123:A:GLN:H	18	0.11
(1,760)	1:105:A:ILE:HD12	1:123:A:GLN:H	18	0.11
(1,760)	1:105:A:ILE:HD13	1:123:A:GLN:H	18	0.11
(1,732)	1:103:A:VAL:H	1:104:A:ASP:HA	8	0.11
(1,728)	1:103:A:VAL:HG11	1:123:A:GLN:HB2	14	0.11
(1,728)	1:103:A:VAL:HG11	1:123:A:GLN:HB3	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,728)	1:103:A:VAL:HG12	1:123:A:GLN:HB2	14	0.11
(1,728)	1:103:A:VAL:HG12	1:123:A:GLN:HB3	14	0.11
(1,728)	1:103:A:VAL:HG13	1:123:A:GLN:HB2	14	0.11
(1,728)	1:103:A:VAL:HG13	1:123:A:GLN:HB3	14	0.11
(1,728)	1:103:A:VAL:HG21	1:123:A:GLN:HB2	14	0.11
(1,728)	1:103:A:VAL:HG21	1:123:A:GLN:HB3	14	0.11
(1,728)	1:103:A:VAL:HG22	1:123:A:GLN:HB2	14	0.11
(1,728)	1:103:A:VAL:HG22	1:123:A:GLN:HB3	14	0.11
(1,728)	1:103:A:VAL:HG23	1:123:A:GLN:HB2	14	0.11
(1,728)	1:103:A:VAL:HG23	1:123:A:GLN:HB3	14	0.11
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD11	14	0.11
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD12	14	0.11
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD13	14	0.11
(1,711)	1:102:A:ILE:HG21	1:103:A:VAL:H	10	0.11
(1,711)	1:102:A:ILE:HG22	1:103:A:VAL:H	10	0.11
(1,711)	1:102:A:ILE:HG23	1:103:A:VAL:H	10	0.11
(1,684)	1:99:A:GLY:H	1:100:A:GLU:H	20	0.11
(1,683)	1:99:A:GLY:HA2	1:100:A:GLU:H	13	0.11
(1,683)	1:99:A:GLY:HA3	1:100:A:GLU:H	13	0.11
(1,638)	1:93:A:SER:H	1:94:A:ALA:HA	14	0.11
(1,638)	1:93:A:SER:H	1:94:A:ALA:HA	17	0.11
(1,638)	1:93:A:SER:H	1:94:A:ALA:HA	19	0.11
(1,637)	1:93:A:SER:H	1:93:A:SER:HB2	3	0.11
(1,637)	1:93:A:SER:H	1:93:A:SER:HB3	3	0.11
(1,628)	1:92:A:GLU:H	1:92:A:GLU:HB2	7	0.11
(1,628)	1:92:A:GLU:H	1:92:A:GLU:HB3	7	0.11
(1,615)	1:91:A:LYS:HB2	1:92:A:GLU:HG2	19	0.11
(1,615)	1:91:A:LYS:HB2	1:92:A:GLU:HG3	19	0.11
(1,615)	1:91:A:LYS:HB3	1:92:A:GLU:HG2	19	0.11
(1,615)	1:91:A:LYS:HB3	1:92:A:GLU:HG3	19	0.11
(1,605)	1:89:A:GLY:H	1:90:A:ASP:H	10	0.11
(1,604)	1:89:A:GLY:HA2	1:90:A:ASP:H	2	0.11
(1,604)	1:89:A:GLY:HA3	1:90:A:ASP:H	2	0.11
(1,602)	1:88:A:GLU:H	1:89:A:GLY:H	17	0.11
(1,600)	1:88:A:GLU:H	1:88:A:GLU:HB2	9	0.11
(1,600)	1:88:A:GLU:H	1:88:A:GLU:HB3	9	0.11
(1,554)	1:76:A:MET:HE1	1:122:A:ALA:H	2	0.11
(1,554)	1:76:A:MET:HE2	1:122:A:ALA:H	2	0.11
(1,554)	1:76:A:MET:HE3	1:122:A:ALA:H	2	0.11
(1,554)	1:76:A:MET:HE1	1:122:A:ALA:H	14	0.11
(1,554)	1:76:A:MET:HE2	1:122:A:ALA:H	14	0.11
(1,554)	1:76:A:MET:HE3	1:122:A:ALA:H	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,540)	1:75:A:LYS:H	1:78:A:LYS:HB2	3	0.11
(1,540)	1:75:A:LYS:H	1:78:A:LYS:HB3	3	0.11
(1,540)	1:75:A:LYS:H	1:78:A:LYS:HB2	12	0.11
(1,540)	1:75:A:LYS:H	1:78:A:LYS:HB3	12	0.11
(1,535)	1:75:A:LYS:H	1:116:A:PRO:HB2	8	0.11
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD11	10	0.11
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD12	10	0.11
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD13	10	0.11
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD11	15	0.11
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD12	15	0.11
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD13	15	0.11
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD11	16	0.11
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD12	16	0.11
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD13	16	0.11
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG11	10	0.11
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG12	10	0.11
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG13	10	0.11
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG21	10	0.11
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG22	10	0.11
(1,494)	1:70:A:ILE:H	1:103:A:VAL:HG23	10	0.11
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB2	1	0.11
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB3	1	0.11
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB2	4	0.11
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB3	4	0.11
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB2	6	0.11
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB3	6	0.11
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB2	15	0.11
(1,453)	1:68:A:SER:H	1:69:A:HIS:HB3	15	0.11
(1,436)	1:66:A:CYS:H	1:69:A:HIS:HB2	5	0.11
(1,436)	1:66:A:CYS:H	1:69:A:HIS:HB3	5	0.11
(1,436)	1:66:A:CYS:H	1:69:A:HIS:HB2	12	0.11
(1,436)	1:66:A:CYS:H	1:69:A:HIS:HB3	12	0.11
(1,426)	1:66:A:CYS:HA	1:70:A:ILE:H	3	0.11
(1,426)	1:66:A:CYS:HA	1:70:A:ILE:H	18	0.11
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD11	13	0.11
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD12	13	0.11
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD13	13	0.11
(1,415)	1:65:A:ILE:HG21	1:68:A:SER:HA	2	0.11
(1,415)	1:65:A:ILE:HG22	1:68:A:SER:HA	2	0.11
(1,415)	1:65:A:ILE:HG23	1:68:A:SER:HA	2	0.11
(1,386)	1:63:A:CYS:HB2	1:64:A:LEU:H	6	0.11
(1,374)	1:63:A:CYS:HA	1:129:A:ASP:H	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,374)	1:63:A:CYS:HA	1:129:A:ASP:H	11	0.11
(1,373)	1:62:A:GLY:H	1:65:A:ILE:HD11	1	0.11
(1,373)	1:62:A:GLY:H	1:65:A:ILE:HD12	1	0.11
(1,373)	1:62:A:GLY:H	1:65:A:ILE:HD13	1	0.11
(1,353)	1:60:A:THR:H	1:63:A:CYS:H	17	0.11
(1,348)	1:60:A:THR:H	1:131:A:THR:HB	11	0.11
(1,326)	1:56:A:LYS:H	1:56:A:LYS:HD2	19	0.11
(1,326)	1:56:A:LYS:H	1:56:A:LYS:HD3	19	0.11
(1,267)	1:52:A:ALA:HA	1:54:A:ALA:HB1	17	0.11
(1,267)	1:52:A:ALA:HA	1:54:A:ALA:HB2	17	0.11
(1,267)	1:52:A:ALA:HA	1:54:A:ALA:HB3	17	0.11
(1,235)	1:50:A:MET:HE1	1:147:A:LEU:HA	8	0.11
(1,235)	1:50:A:MET:HE2	1:147:A:LEU:HA	8	0.11
(1,235)	1:50:A:MET:HE3	1:147:A:LEU:HA	8	0.11
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD11	9	0.11
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD12	9	0.11
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD13	9	0.11
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD11	15	0.11
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD12	15	0.11
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD13	15	0.11
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG21	3	0.11
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG22	3	0.11
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG23	3	0.11
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG21	5	0.11
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG22	5	0.11
(1,185)	1:49:A:GLU:HB2	1:141:A:VAL:HG23	5	0.11
(1,173)	1:49:A:GLU:HA	1:141:A:VAL:HG11	5	0.11
(1,173)	1:49:A:GLU:HA	1:141:A:VAL:HG12	5	0.11
(1,173)	1:49:A:GLU:HA	1:141:A:VAL:HG13	5	0.11
(1,170)	1:48:A:LYS:H	1:49:A:GLU:HB2	7	0.11
(1,170)	1:48:A:LYS:H	1:49:A:GLU:HB2	11	0.11
(1,169)	1:48:A:LYS:H	1:49:A:GLU:HA	7	0.11
(1,143)	1:47:A:LEU:HD11	1:48:A:LYS:H	8	0.11
(1,143)	1:47:A:LEU:HD12	1:48:A:LYS:H	8	0.11
(1,143)	1:47:A:LEU:HD13	1:48:A:LYS:H	8	0.11
(1,143)	1:47:A:LEU:HD21	1:48:A:LYS:H	8	0.11
(1,143)	1:47:A:LEU:HD22	1:48:A:LYS:H	8	0.11
(1,143)	1:47:A:LEU:HD23	1:48:A:LYS:H	8	0.11
(1,143)	1:47:A:LEU:HD11	1:48:A:LYS:H	12	0.11
(1,143)	1:47:A:LEU:HD12	1:48:A:LYS:H	12	0.11
(1,143)	1:47:A:LEU:HD13	1:48:A:LYS:H	12	0.11
(1,143)	1:47:A:LEU:HD21	1:48:A:LYS:H	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,143)	1:47:A:LEU:HD22	1:48:A:LYS:H	12	0.11
(1,143)	1:47:A:LEU:HD23	1:48:A:LYS:H	12	0.11
(1,143)	1:47:A:LEU:HD11	1:48:A:LYS:H	15	0.11
(1,143)	1:47:A:LEU:HD12	1:48:A:LYS:H	15	0.11
(1,143)	1:47:A:LEU:HD13	1:48:A:LYS:H	15	0.11
(1,143)	1:47:A:LEU:HD21	1:48:A:LYS:H	15	0.11
(1,143)	1:47:A:LEU:HD22	1:48:A:LYS:H	15	0.11
(1,143)	1:47:A:LEU:HD23	1:48:A:LYS:H	15	0.11
(1,143)	1:47:A:LEU:HD11	1:48:A:LYS:H	20	0.11
(1,143)	1:47:A:LEU:HD12	1:48:A:LYS:H	20	0.11
(1,143)	1:47:A:LEU:HD13	1:48:A:LYS:H	20	0.11
(1,143)	1:47:A:LEU:HD21	1:48:A:LYS:H	20	0.11
(1,143)	1:47:A:LEU:HD22	1:48:A:LYS:H	20	0.11
(1,143)	1:47:A:LEU:HD23	1:48:A:LYS:H	20	0.11
(1,139)	1:47:A:LEU:HB3	1:48:A:LYS:HB2	11	0.11
(1,139)	1:47:A:LEU:HB3	1:48:A:LYS:HB3	11	0.11
(1,118)	1:46:A:VAL:HG11	1:150:A:TRP:HZ2	11	0.11
(1,118)	1:46:A:VAL:HG12	1:150:A:TRP:HZ2	11	0.11
(1,118)	1:46:A:VAL:HG13	1:150:A:TRP:HZ2	11	0.11
(1,118)	1:46:A:VAL:HG21	1:150:A:TRP:HZ2	11	0.11
(1,118)	1:46:A:VAL:HG22	1:150:A:TRP:HZ2	11	0.11
(1,118)	1:46:A:VAL:HG23	1:150:A:TRP:HZ2	11	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD11	9	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD12	9	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD13	9	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD21	9	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD22	9	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD23	9	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD11	13	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD12	13	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD13	13	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD21	13	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD22	13	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD23	13	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD11	19	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD12	19	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD13	19	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD21	19	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD22	19	0.11
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD23	19	0.11
(1,47)	1:43:A:PRO:HB3	1:45:A:GLU:H	7	0.11
(1,9)	1:31:A:ASP:H	1:34:A:ARG:HG2	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,9)	1:31:A:ASP:H	1:34:A:ARG:HG3	11	0.11
(1,9)	1:31:A:ASP:H	1:34:A:ARG:HG2	12	0.11
(1,9)	1:31:A:ASP:H	1:34:A:ARG:HG3	12	0.11
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB1	8	0.11
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB2	8	0.11
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB3	8	0.11
(1,1550)	1:120:A:PHE:HE1	1:124:A:VAL:HG21	7	0.1
(1,1550)	1:120:A:PHE:HE1	1:124:A:VAL:HG22	7	0.1
(1,1550)	1:120:A:PHE:HE1	1:124:A:VAL:HG23	7	0.1
(1,1520)	1:108:A:ILE:HD11	1:111:A:PHE:HD2	12	0.1
(1,1520)	1:108:A:ILE:HD12	1:111:A:PHE:HD2	12	0.1
(1,1520)	1:108:A:ILE:HD13	1:111:A:PHE:HD2	12	0.1
(1,1513)	1:103:A:VAL:HG11	1:111:A:PHE:HE2	18	0.1
(1,1513)	1:103:A:VAL:HG12	1:111:A:PHE:HE2	18	0.1
(1,1513)	1:103:A:VAL:HG13	1:111:A:PHE:HE2	18	0.1
(1,1513)	1:103:A:VAL:HG21	1:111:A:PHE:HE2	18	0.1
(1,1513)	1:103:A:VAL:HG22	1:111:A:PHE:HE2	18	0.1
(1,1513)	1:103:A:VAL:HG23	1:111:A:PHE:HE2	18	0.1
(1,1511)	1:103:A:VAL:HB	1:111:A:PHE:HE2	1	0.1
(1,1494)	1:66:A:CYS:HA	1:124:A:VAL:H	9	0.1
(1,1484)	1:65:A:ILE:HG12	1:127:A:CYS:HB3	5	0.1
(1,1483)	1:65:A:ILE:HG12	1:126:A:LEU:H	15	0.1
(1,1474)	1:64:A:LEU:H	1:67:A:LEU:H	16	0.1
(1,1471)	1:61:A:ARG:HA	1:65:A:ILE:HG21	2	0.1
(1,1471)	1:61:A:ARG:HA	1:65:A:ILE:HG22	2	0.1
(1,1471)	1:61:A:ARG:HA	1:65:A:ILE:HG23	2	0.1
(1,1442)	1:43:A:PRO:HB2	1:46:A:VAL:HG11	10	0.1
(1,1442)	1:43:A:PRO:HB2	1:46:A:VAL:HG12	10	0.1
(1,1442)	1:43:A:PRO:HB2	1:46:A:VAL:HG13	10	0.1
(1,1393)	1:166:A:VAL:HA	1:167:A:ASP:H	8	0.1
(1,1393)	1:166:A:VAL:HA	1:167:A:ASP:H	10	0.1
(1,1383)	1:165:A:GLN:HA	1:166:A:VAL:H	2	0.1
(1,1383)	1:165:A:GLN:HA	1:166:A:VAL:H	19	0.1
(1,1375)	1:163:A:GLN:H	1:163:A:GLN:HB2	16	0.1
(1,1375)	1:163:A:GLN:H	1:163:A:GLN:HB3	16	0.1
(1,1342)	1:157:A:THR:H	1:158:A:PHE:H	20	0.1
(1,1323)	1:150:A:TRP:HZ2	1:162:A:ILE:HG12	1	0.1
(1,1323)	1:150:A:TRP:HZ2	1:162:A:ILE:HG13	1	0.1
(1,1312)	1:150:A:TRP:HE1	1:162:A:ILE:HG21	6	0.1
(1,1312)	1:150:A:TRP:HE1	1:162:A:ILE:HG22	6	0.1
(1,1312)	1:150:A:TRP:HE1	1:162:A:ILE:HG23	6	0.1
(1,1290)	1:149:A:LYS:HE2	1:150:A:TRP:HZ2	9	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1290)	1:149:A:LYS:HE3	1:150:A:TRP:HZ2	9	0.1
(1,1287)	1:149:A:LYS:HE3	1:150:A:TRP:HE1	6	0.1
(1,1255)	1:147:A:LEU:H	1:150:A:TRP:HD1	2	0.1
(1,1255)	1:147:A:LEU:H	1:150:A:TRP:HD1	4	0.1
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD11	10	0.1
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD12	10	0.1
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD13	10	0.1
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD11	10	0.1
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD12	10	0.1
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD13	10	0.1
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD11	16	0.1
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD12	16	0.1
(1,1218)	1:146:A:LEU:HB2	1:147:A:LEU:HD13	16	0.1
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD11	16	0.1
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD12	16	0.1
(1,1218)	1:146:A:LEU:HB3	1:147:A:LEU:HD13	16	0.1
(1,1121)	1:129:A:ASP:H	1:130:A:CYS:HB2	9	0.1
(1,1121)	1:129:A:ASP:H	1:130:A:CYS:HB3	9	0.1
(1,1121)	1:129:A:ASP:H	1:130:A:CYS:HB2	17	0.1
(1,1121)	1:129:A:ASP:H	1:130:A:CYS:HB3	17	0.1
(1,1116)	1:129:A:ASP:HB3	1:130:A:CYS:H	12	0.1
(1,1116)	1:129:A:ASP:HB3	1:130:A:CYS:H	15	0.1
(1,1116)	1:129:A:ASP:HB3	1:130:A:CYS:H	19	0.1
(1,1116)	1:129:A:ASP:HB3	1:130:A:CYS:H	20	0.1
(1,1110)	1:128:A:VAL:H	1:128:A:VAL:HG11	8	0.1
(1,1110)	1:128:A:VAL:H	1:128:A:VAL:HG12	8	0.1
(1,1110)	1:128:A:VAL:H	1:128:A:VAL:HG13	8	0.1
(1,1110)	1:128:A:VAL:H	1:128:A:VAL:HG11	14	0.1
(1,1110)	1:128:A:VAL:H	1:128:A:VAL:HG12	14	0.1
(1,1110)	1:128:A:VAL:H	1:128:A:VAL:HG13	14	0.1
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG21	6	0.1
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG22	6	0.1
(1,1094)	1:127:A:CYS:H	1:128:A:VAL:HG23	6	0.1
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG21	18	0.1
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG22	18	0.1
(1,1064)	1:124:A:VAL:H	1:124:A:VAL:HG23	18	0.1
(1,1037)	1:123:A:GLN:HA	1:126:A:LEU:H	20	0.1
(1,959)	1:117:A:MET:HG2	1:120:A:PHE:H	2	0.1
(1,959)	1:117:A:MET:HG3	1:120:A:PHE:H	2	0.1
(1,959)	1:117:A:MET:HG2	1:120:A:PHE:H	8	0.1
(1,959)	1:117:A:MET:HG3	1:120:A:PHE:H	8	0.1
(1,959)	1:117:A:MET:HG2	1:120:A:PHE:H	12	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,959)	1:117:A:MET:HG3	1:120:A:PHE:H	12	0.1
(1,932)	1:114:A:LEU:HG	1:119:A:GLN:H	17	0.1
(1,906)	1:114:A:LEU:HA	1:118:A:GLU:HB3	8	0.1
(1,891)	1:112:A:LYS:H	1:113:A:ASP:HB2	11	0.1
(1,891)	1:112:A:LYS:H	1:113:A:ASP:HB3	11	0.1
(1,891)	1:112:A:LYS:H	1:113:A:ASP:HB2	20	0.1
(1,891)	1:112:A:LYS:H	1:113:A:ASP:HB3	20	0.1
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE2	9	0.1
(1,889)	1:112:A:LYS:H	1:112:A:LYS:HE3	9	0.1
(1,876)	1:111:A:PHE:HB2	1:112:A:LYS:H	1	0.1
(1,859)	1:109:A:PRO:HA	1:111:A:PHE:H	11	0.1
(1,818)	1:107:A:GLU:H	1:108:A:ILE:HG12	12	0.1
(1,818)	1:107:A:GLU:H	1:108:A:ILE:HG12	19	0.1
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD11	12	0.1
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD12	12	0.1
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD13	12	0.1
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD21	12	0.1
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD22	12	0.1
(1,781)	1:105:A:ILE:HG21	1:126:A:LEU:HD23	12	0.1
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD11	12	0.1
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD12	12	0.1
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD13	12	0.1
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD21	12	0.1
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD22	12	0.1
(1,781)	1:105:A:ILE:HG22	1:126:A:LEU:HD23	12	0.1
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD11	12	0.1
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD12	12	0.1
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD13	12	0.1
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD21	12	0.1
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD22	12	0.1
(1,781)	1:105:A:ILE:HG23	1:126:A:LEU:HD23	12	0.1
(1,772)	1:105:A:ILE:HG21	1:107:A:GLU:HB2	15	0.1
(1,772)	1:105:A:ILE:HG21	1:107:A:GLU:HB3	15	0.1
(1,772)	1:105:A:ILE:HG22	1:107:A:GLU:HB2	15	0.1
(1,772)	1:105:A:ILE:HG22	1:107:A:GLU:HB3	15	0.1
(1,772)	1:105:A:ILE:HG23	1:107:A:GLU:HB2	15	0.1
(1,772)	1:105:A:ILE:HG23	1:107:A:GLU:HB3	15	0.1
(1,765)	1:105:A:ILE:HG12	1:124:A:VAL:H	12	0.1
(1,765)	1:105:A:ILE:HG13	1:124:A:VAL:H	12	0.1
(1,733)	1:103:A:VAL:H	1:104:A:ASP:HB2	4	0.1
(1,733)	1:103:A:VAL:H	1:104:A:ASP:HB3	4	0.1
(1,732)	1:103:A:VAL:H	1:104:A:ASP:HA	3	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD11	6	0.1
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD12	6	0.1
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD13	6	0.1
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD11	13	0.1
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD12	13	0.1
(1,714)	1:102:A:ILE:H	1:102:A:ILE:HD13	13	0.1
(1,707)	1:102:A:ILE:HB	1:103:A:VAL:H	3	0.1
(1,707)	1:102:A:ILE:HB	1:103:A:VAL:H	12	0.1
(1,636)	1:93:A:SER:HB2	1:95:A:GLN:H	2	0.1
(1,636)	1:93:A:SER:HB3	1:95:A:GLN:H	2	0.1
(1,632)	1:92:A:GLU:H	1:93:A:SER:H	18	0.1
(1,627)	1:92:A:GLU:HG2	1:93:A:SER:H	7	0.1
(1,627)	1:92:A:GLU:HG3	1:93:A:SER:H	7	0.1
(1,625)	1:92:A:GLU:HB2	1:93:A:SER:HB2	6	0.1
(1,625)	1:92:A:GLU:HB2	1:93:A:SER:HB3	6	0.1
(1,625)	1:92:A:GLU:HB3	1:93:A:SER:HB2	6	0.1
(1,625)	1:92:A:GLU:HB3	1:93:A:SER:HB3	6	0.1
(1,625)	1:92:A:GLU:HB2	1:93:A:SER:HB2	15	0.1
(1,625)	1:92:A:GLU:HB2	1:93:A:SER:HB3	15	0.1
(1,625)	1:92:A:GLU:HB3	1:93:A:SER:HB2	15	0.1
(1,625)	1:92:A:GLU:HB3	1:93:A:SER:HB3	15	0.1
(1,604)	1:89:A:GLY:HA2	1:90:A:ASP:H	17	0.1
(1,604)	1:89:A:GLY:HA3	1:90:A:ASP:H	17	0.1
(1,584)	1:87:A:TYR:HB2	1:88:A:GLU:H	18	0.1
(1,584)	1:87:A:TYR:HB3	1:88:A:GLU:H	18	0.1
(1,580)	1:86:A:THR:HG21	1:87:A:TYR:HD1	2	0.1
(1,580)	1:86:A:THR:HG21	1:87:A:TYR:HD2	2	0.1
(1,580)	1:86:A:THR:HG22	1:87:A:TYR:HD1	2	0.1
(1,580)	1:86:A:THR:HG22	1:87:A:TYR:HD2	2	0.1
(1,580)	1:86:A:THR:HG23	1:87:A:TYR:HD1	2	0.1
(1,580)	1:86:A:THR:HG23	1:87:A:TYR:HD2	2	0.1
(1,580)	1:86:A:THR:HG21	1:87:A:TYR:HD1	17	0.1
(1,580)	1:86:A:THR:HG21	1:87:A:TYR:HD2	17	0.1
(1,580)	1:86:A:THR:HG22	1:87:A:TYR:HD1	17	0.1
(1,580)	1:86:A:THR:HG22	1:87:A:TYR:HD2	17	0.1
(1,580)	1:86:A:THR:HG23	1:87:A:TYR:HD1	17	0.1
(1,580)	1:86:A:THR:HG23	1:87:A:TYR:HD2	17	0.1
(1,554)	1:76:A:MET:HE1	1:122:A:ALA:H	15	0.1
(1,554)	1:76:A:MET:HE2	1:122:A:ALA:H	15	0.1
(1,554)	1:76:A:MET:HE3	1:122:A:ALA:H	15	0.1
(1,554)	1:76:A:MET:HE1	1:122:A:ALA:H	17	0.1
(1,554)	1:76:A:MET:HE2	1:122:A:ALA:H	17	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,554)	1:76:A:MET:HE3	1:122:A:ALA:H	17	0.1
(1,507)	1:71:A:LYS:HE2	1:104:A:ASP:H	7	0.1
(1,507)	1:71:A:LYS:HE3	1:104:A:ASP:H	7	0.1
(1,505)	1:71:A:LYS:HB2	1:72:A:CYS:H	1	0.1
(1,505)	1:71:A:LYS:HB3	1:72:A:CYS:H	1	0.1
(1,499)	1:70:A:ILE:H	1:71:A:LYS:H	4	0.1
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD11	6	0.1
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD12	6	0.1
(1,496)	1:70:A:ILE:H	1:70:A:ILE:HD13	6	0.1
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE1	18	0.1
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE2	18	0.1
(1,493)	1:70:A:ILE:HG21	1:76:A:MET:HE3	18	0.1
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE1	18	0.1
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE2	18	0.1
(1,493)	1:70:A:ILE:HG22	1:76:A:MET:HE3	18	0.1
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE1	18	0.1
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE2	18	0.1
(1,493)	1:70:A:ILE:HG23	1:76:A:MET:HE3	18	0.1
(1,426)	1:66:A:CYS:HA	1:70:A:ILE:H	1	0.1
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD11	15	0.1
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD12	15	0.1
(1,419)	1:65:A:ILE:H	1:65:A:ILE:HD13	15	0.1
(1,417)	1:65:A:ILE:HG21	1:69:A:HIS:H	9	0.1
(1,417)	1:65:A:ILE:HG22	1:69:A:HIS:H	9	0.1
(1,417)	1:65:A:ILE:HG23	1:69:A:HIS:H	9	0.1
(1,417)	1:65:A:ILE:HG21	1:69:A:HIS:H	10	0.1
(1,417)	1:65:A:ILE:HG22	1:69:A:HIS:H	10	0.1
(1,417)	1:65:A:ILE:HG23	1:69:A:HIS:H	10	0.1
(1,415)	1:65:A:ILE:HG21	1:68:A:SER:HA	19	0.1
(1,415)	1:65:A:ILE:HG22	1:68:A:SER:HA	19	0.1
(1,415)	1:65:A:ILE:HG23	1:68:A:SER:HA	19	0.1
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD11	1	0.1
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD12	1	0.1
(1,363)	1:61:A:ARG:HD2	1:65:A:ILE:HD13	1	0.1
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD11	1	0.1
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD12	1	0.1
(1,363)	1:61:A:ARG:HD3	1:65:A:ILE:HD13	1	0.1
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD11	2	0.1
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD12	2	0.1
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD13	2	0.1
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD11	2	0.1
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD12	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD13	2	0.1
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD11	20	0.1
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD12	20	0.1
(1,361)	1:61:A:ARG:HB2	1:65:A:ILE:HD13	20	0.1
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD11	20	0.1
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD12	20	0.1
(1,361)	1:61:A:ARG:HB3	1:65:A:ILE:HD13	20	0.1
(1,352)	1:60:A:THR:H	1:63:A:CYS:HB2	1	0.1
(1,341)	1:57:A:ALA:H	1:137:A:GLY:H	1	0.1
(1,315)	1:56:A:LYS:HA	1:56:A:LYS:HE2	10	0.1
(1,315)	1:56:A:LYS:HA	1:56:A:LYS:HE3	10	0.1
(1,307)	1:54:A:ALA:H	1:57:A:ALA:HB1	6	0.1
(1,307)	1:54:A:ALA:H	1:57:A:ALA:HB2	6	0.1
(1,307)	1:54:A:ALA:H	1:57:A:ALA:HB3	6	0.1
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE1	9	0.1
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE2	9	0.1
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE3	9	0.1
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE1	11	0.1
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE2	11	0.1
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE3	11	0.1
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE1	15	0.1
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE2	15	0.1
(1,207)	1:49:A:GLU:H	1:50:A:MET:HE3	15	0.1
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD11	16	0.1
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD12	16	0.1
(1,187)	1:49:A:GLU:HB2	1:147:A:LEU:HD13	16	0.1
(1,183)	1:49:A:GLU:HB3	1:52:A:ALA:HB1	14	0.1
(1,183)	1:49:A:GLU:HB3	1:52:A:ALA:HB2	14	0.1
(1,183)	1:49:A:GLU:HB3	1:52:A:ALA:HB3	14	0.1
(1,175)	1:49:A:GLU:HA	1:52:A:ALA:HB1	5	0.1
(1,175)	1:49:A:GLU:HA	1:52:A:ALA:HB2	5	0.1
(1,175)	1:49:A:GLU:HA	1:52:A:ALA:HB3	5	0.1
(1,170)	1:48:A:LYS:H	1:49:A:GLU:HB2	16	0.1
(1,170)	1:48:A:LYS:H	1:49:A:GLU:HB2	17	0.1
(1,170)	1:48:A:LYS:H	1:49:A:GLU:HB2	18	0.1
(1,169)	1:48:A:LYS:H	1:49:A:GLU:HA	8	0.1
(1,143)	1:47:A:LEU:HD11	1:48:A:LYS:H	1	0.1
(1,143)	1:47:A:LEU:HD12	1:48:A:LYS:H	1	0.1
(1,143)	1:47:A:LEU:HD13	1:48:A:LYS:H	1	0.1
(1,143)	1:47:A:LEU:HD21	1:48:A:LYS:H	1	0.1
(1,143)	1:47:A:LEU:HD22	1:48:A:LYS:H	1	0.1
(1,143)	1:47:A:LEU:HD23	1:48:A:LYS:H	1	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,143)	1:47:A:LEU:HD11	1:48:A:LYS:H	4	0.1
(1,143)	1:47:A:LEU:HD12	1:48:A:LYS:H	4	0.1
(1,143)	1:47:A:LEU:HD13	1:48:A:LYS:H	4	0.1
(1,143)	1:47:A:LEU:HD21	1:48:A:LYS:H	4	0.1
(1,143)	1:47:A:LEU:HD22	1:48:A:LYS:H	4	0.1
(1,143)	1:47:A:LEU:HD23	1:48:A:LYS:H	4	0.1
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD11	20	0.1
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD12	20	0.1
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD13	20	0.1
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD21	20	0.1
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD22	20	0.1
(1,96)	1:45:A:GLU:H	1:47:A:LEU:HD23	20	0.1
(1,67)	1:44:A:LEU:HD11	1:46:A:VAL:H	19	0.1
(1,67)	1:44:A:LEU:HD12	1:46:A:VAL:H	19	0.1
(1,67)	1:44:A:LEU:HD13	1:46:A:VAL:H	19	0.1
(1,67)	1:44:A:LEU:HD21	1:46:A:VAL:H	19	0.1
(1,67)	1:44:A:LEU:HD22	1:46:A:VAL:H	19	0.1
(1,67)	1:44:A:LEU:HD23	1:46:A:VAL:H	19	0.1
(1,34)	1:35:A:GLY:H	1:36:A:LYS:HA	16	0.1
(1,32)	1:34:A:ARG:H	1:35:A:GLY:H	11	0.1
(1,9)	1:31:A:ASP:H	1:34:A:ARG:HG2	6	0.1
(1,9)	1:31:A:ASP:H	1:34:A:ARG:HG3	6	0.1
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB1	5	0.1
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB2	5	0.1
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB3	5	0.1
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB1	15	0.1
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB2	15	0.1
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB3	15	0.1
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB1	16	0.1
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB2	16	0.1
(1,7)	1:31:A:ASP:H	1:32:A:ALA:HB3	16	0.1

10 Dihedral-angle violation analysis

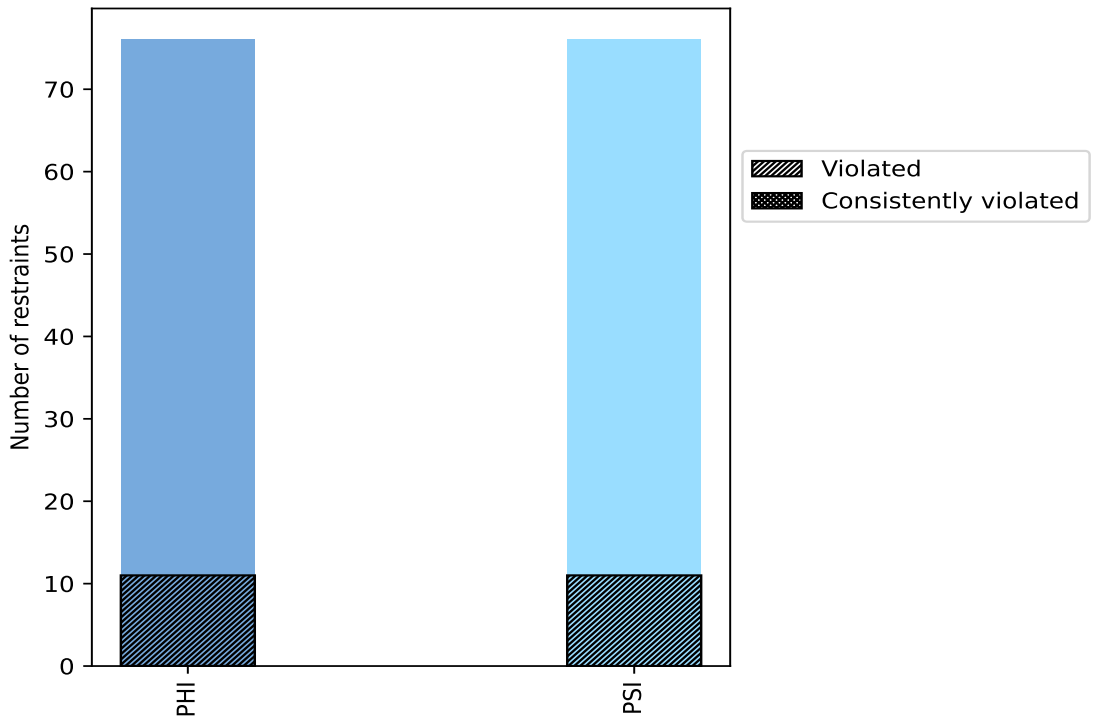
10.1 Summary of dihedral-angle violations

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	76	50.0	11	14.5	7.2	0	0.0	0.0
PSI	76	50.0	11	14.5	7.2	0	0.0	0.0
Total	152	100.0	22	14.5	14.5	0	0.0	0.0

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

10.1.1 Bar chart : Distribution of dihedral-angles and violations



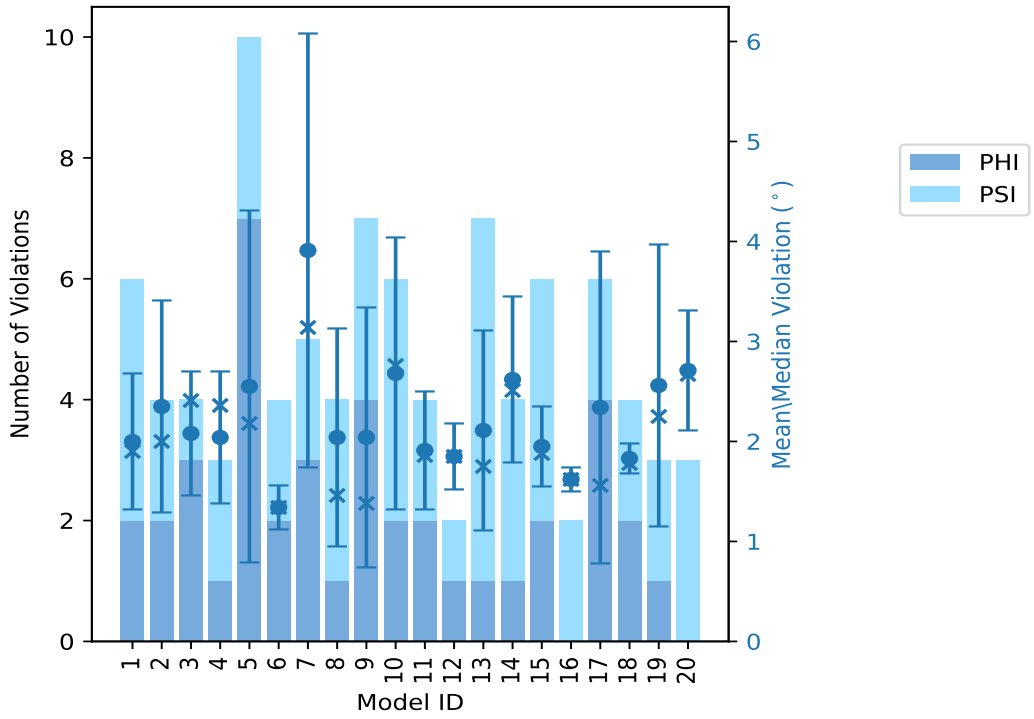
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PHI	PSI	Total				
1	2	4	6	2.0	3.42	0.68	1.9
2	2	2	4	2.35	4.05	1.06	2.0
3	3	1	4	2.08	2.5	0.62	2.41
4	1	2	3	2.04	2.65	0.66	2.36
5	7	3	10	2.55	7.41	1.76	2.18
6	2	2	4	1.34	1.65	0.22	1.34
7	3	2	5	3.91	7.91	2.17	3.14
8	1	3	4	2.04	3.91	1.09	1.46
9	4	3	7	2.04	5.0	1.3	1.38
10	2	4	6	2.68	5.26	1.36	2.76
11	2	2	4	1.91	2.7	0.59	1.86
12	1	1	2	1.85	2.18	0.33	1.85
13	1	6	7	2.11	4.02	1.0	1.75
14	1	3	4	2.62	3.87	0.83	2.51
15	2	4	6	1.95	2.48	0.4	1.88
16	0	2	2	1.62	1.75	0.12	1.62
17	4	2	6	2.34	5.49	1.56	1.56
18	2	2	4	1.83	2.06	0.15	1.78
19	1	2	3	2.56	4.42	1.41	2.25
20	0	3	3	2.71	3.46	0.6	2.67

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

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

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

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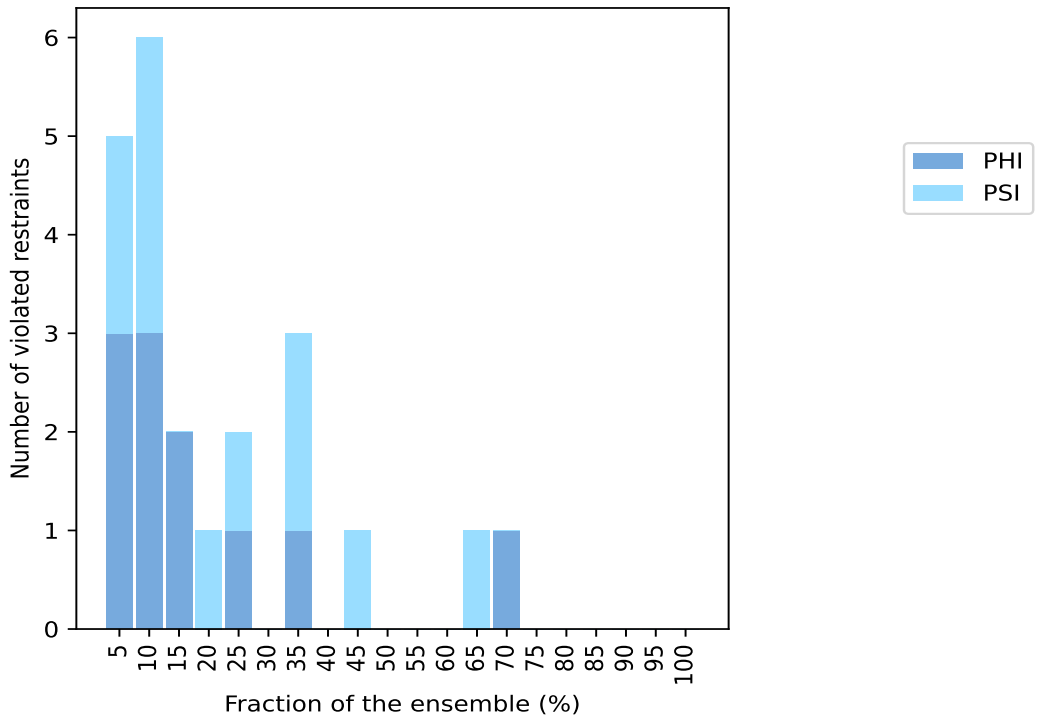
Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count[1]	%
0	0	0	12	60.0
0	1	1	13	65.0
1	0	1	14	70.0
0	0	0	15	75.0
0	0	0	16	80.0
0	0	0	17	85.0
0	0	0	18	90.0
0	0	0	19	95.0
0	0	0	20	100.0

[1] Number of models with violations

10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble

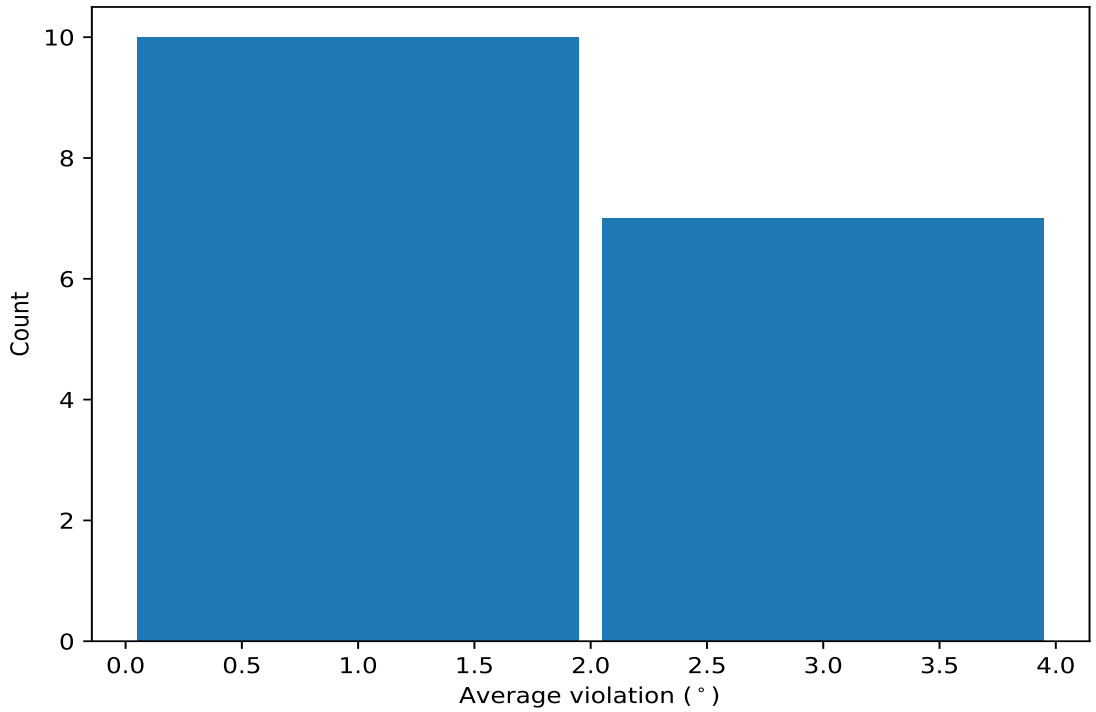


10.4 Most violated dihedral-angle restraints in the ensemble

10.4.1 Histogram : Distribution of mean dihedral-angle violations

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

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.

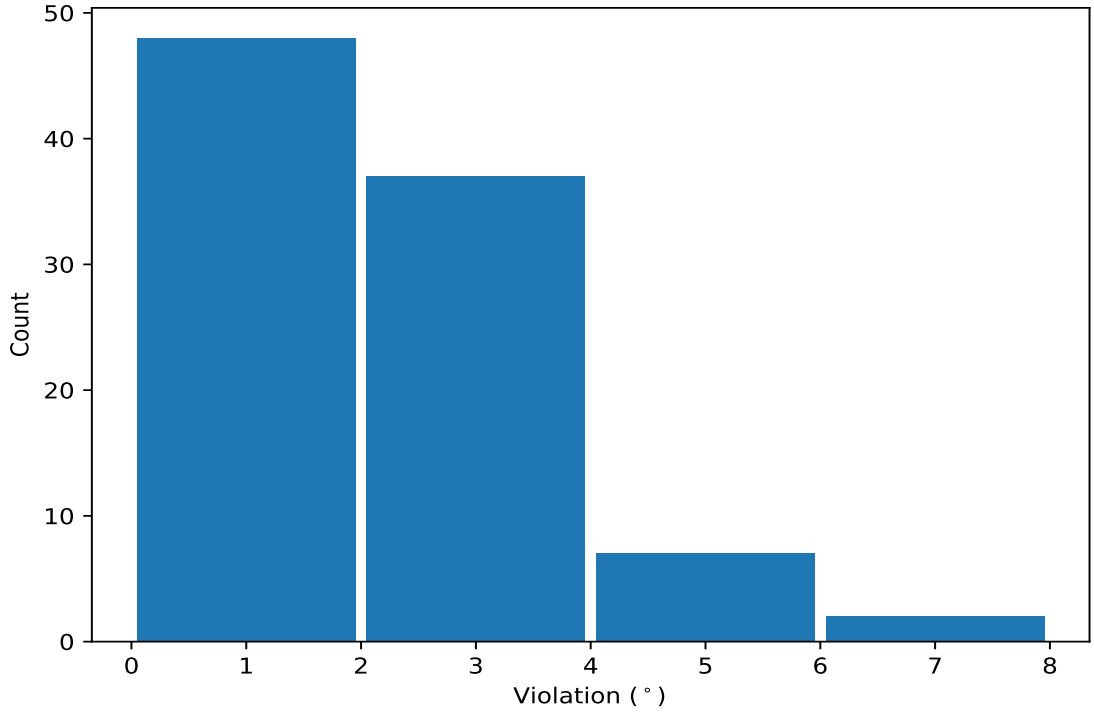
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,135)	1:139:A:ALA:C	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	14	2.28	0.45	2.37
(1,58)	1:66:A:CYS:N	1:66:A:CYS:CA	1:66:A:CYS:C	1:67:A:LEU:N	13	3.73	1.32	4.02
(1,136)	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	1:141:A:VAL:N	9	2.14	0.62	2.02
(1,149)	1:150:A:TRP:C	1:151:A:LEU:N	1:151:A:LEU:CA	1:151:A:LEU:C	7	1.92	0.73	1.82
(1,42)	1:58:A:GLY:N	1:58:A:GLY:CA	1:58:A:GLY:C	1:59:A:CYS:N	7	1.81	0.44	1.75
(1,74)	1:104:A:ASP:N	1:104:A:ASP:CA	1:104:A:ASP:C	1:105:A:ILE:N	7	1.66	0.52	1.5
(1,113)	1:127:A:CYS:C	1:128:A:VAL:N	1:128:A:VAL:CA	1:128:A:VAL:C	5	3.79	3.16	1.27
(1,150)	1:151:A:LEU:N	1:151:A:LEU:CA	1:151:A:LEU:C	1:152:A:PRO:N	5	2.34	0.65	2.24
(1,118)	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	1:132:A:THR:N	4	2.47	0.55	2.45
(1,115)	1:128:A:VAL:C	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	3	1.88	0.41	1.68
(1,13)	1:43:A:PRO:C	1:44:A:LEU:N	1:44:A:LEU:CA	1:44:A:LEU:C	3	1.37	0.27	1.25
(1,71)	1:72:A:CYS:C	1:73:A:THR:N	1:73:A:THR:CA	1:73:A:THR:C	2	2.01	0.69	2.01
(1,51)	1:62:A:GLY:C	1:63:A:CYS:N	1:63:A:CYS:CA	1:63:A:CYS:C	2	1.63	0.17	1.63
(1,10)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:PRO:N	2	1.49	0.18	1.49
(1,80)	1:109:A:PRO:N	1:109:A:PRO:CA	1:109:A:PRO:C	1:110:A:GLY:N	2	1.25	0.06	1.25
(1,86)	1:113:A:ASP:N	1:113:A:ASP:CA	1:113:A:ASP:C	1:114:A:LEU:N	2	1.23	0.01	1.23
(1,43)	1:58:A:GLY:C	1:59:A:CYS:N	1:59:A:CYS:CA	1:59:A:CYS:C	2	1.08	0.05	1.08

[1] Number of violated models, [2]Standard 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

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 (°)
(1,113)	1:127:A:CYS:C	1:128:A:VAL:N	1:128:A:VAL:CA	1:128:A:VAL:C	7	7.91
(1,113)	1:127:A:CYS:C	1:128:A:VAL:N	1:128:A:VAL:CA	1:128:A:VAL:C	5	7.41
(1,58)	1:66:A:CYS:N	1:66:A:CYS:CA	1:66:A:CYS:C	1:67:A:LEU:N	17	5.49
(1,58)	1:66:A:CYS:N	1:66:A:CYS:CA	1:66:A:CYS:C	1:67:A:LEU:N	10	5.26
(1,58)	1:66:A:CYS:N	1:66:A:CYS:CA	1:66:A:CYS:C	1:67:A:LEU:N	9	5.0
(1,58)	1:66:A:CYS:N	1:66:A:CYS:CA	1:66:A:CYS:C	1:67:A:LEU:N	19	4.42
(1,58)	1:66:A:CYS:N	1:66:A:CYS:CA	1:66:A:CYS:C	1:67:A:LEU:N	7	4.27
(1,58)	1:66:A:CYS:N	1:66:A:CYS:CA	1:66:A:CYS:C	1:67:A:LEU:N	2	4.05
(1,58)	1:66:A:CYS:N	1:66:A:CYS:CA	1:66:A:CYS:C	1:67:A:LEU:N	13	4.02
(1,58)	1:66:A:CYS:N	1:66:A:CYS:CA	1:66:A:CYS:C	1:67:A:LEU:N	8	3.91
(1,58)	1:66:A:CYS:N	1:66:A:CYS:CA	1:66:A:CYS:C	1:67:A:LEU:N	14	3.87
(1,149)	1:150:A:TRP:C	1:151:A:LEU:N	1:151:A:LEU:CA	1:151:A:LEU:C	5	3.53
(1,58)	1:66:A:CYS:N	1:66:A:CYS:CA	1:66:A:CYS:C	1:67:A:LEU:N	20	3.46
(1,150)	1:151:A:LEU:N	1:151:A:LEU:CA	1:151:A:LEU:C	1:152:A:PRO:N	1	3.42

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,136)	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	1:141:A:VAL:N	7	3.14
(1,118)	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	1:132:A:THR:N	13	3.13
(1,135)	1:139:A:ALA:C	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	17	3.07
(1,118)	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	1:132:A:THR:N	10	2.9
(1,136)	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	1:141:A:VAL:N	10	2.84
(1,135)	1:139:A:ALA:C	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	14	2.78
(1,71)	1:72:A:CYS:C	1:73:A:THR:N	1:73:A:THR:CA	1:73:A:THR:C	11	2.7
(1,150)	1:151:A:LEU:N	1:151:A:LEU:CA	1:151:A:LEU:C	1:152:A:PRO:N	20	2.67
(1,135)	1:139:A:ALA:C	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	10	2.67
(1,136)	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	1:141:A:VAL:N	4	2.65
(1,135)	1:139:A:ALA:C	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	7	2.55
(1,42)	1:58:A:GLY:N	1:58:A:GLY:CA	1:58:A:GLY:C	1:59:A:CYS:N	3	2.5
(1,136)	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	1:141:A:VAL:N	15	2.48
(1,115)	1:128:A:VAL:C	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	3	2.45
(1,138)	1:145:A:ASP:N	1:145:A:ASP:CA	1:145:A:ASP:C	1:146:A:LEU:N	5	2.44
(1,74)	1:104:A:ASP:N	1:104:A:ASP:CA	1:104:A:ASP:C	1:105:A:ILE:N	9	2.43
(1,135)	1:139:A:ALA:C	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	15	2.41
(1,42)	1:58:A:GLY:N	1:58:A:GLY:CA	1:58:A:GLY:C	1:59:A:CYS:N	5	2.39
(1,135)	1:139:A:ALA:C	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	2	2.37
(1,135)	1:139:A:ALA:C	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	3	2.37
(1,135)	1:139:A:ALA:C	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	4	2.36
(1,74)	1:104:A:ASP:N	1:104:A:ASP:CA	1:104:A:ASP:C	1:105:A:ILE:N	19	2.25
(1,58)	1:66:A:CYS:N	1:66:A:CYS:CA	1:66:A:CYS:C	1:67:A:LEU:N	11	2.25
(1,150)	1:151:A:LEU:N	1:151:A:LEU:CA	1:151:A:LEU:C	1:152:A:PRO:N	14	2.24
(1,135)	1:139:A:ALA:C	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	5	2.2
(1,135)	1:139:A:ALA:C	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	12	2.18
(1,148)	1:150:A:TRP:N	1:150:A:TRP:CA	1:150:A:TRP:C	1:151:A:LEU:N	5	2.16
(1,149)	1:150:A:TRP:C	1:151:A:LEU:N	1:151:A:LEU:CA	1:151:A:LEU:C	9	2.1
(1,135)	1:139:A:ALA:C	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	18	2.06
(1,136)	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	1:141:A:VAL:N	1	2.02
(1,135)	1:139:A:ALA:C	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	13	2.02
(1,118)	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	1:132:A:THR:N	20	2.0
(1,74)	1:104:A:ASP:N	1:104:A:ASP:CA	1:104:A:ASP:C	1:105:A:ILE:N	1	1.99
(1,42)	1:58:A:GLY:N	1:58:A:GLY:CA	1:58:A:GLY:C	1:59:A:CYS:N	15	1.9
(1,149)	1:150:A:TRP:C	1:151:A:LEU:N	1:151:A:LEU:CA	1:151:A:LEU:C	17	1.86
(1,118)	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	1:132:A:THR:N	15	1.85
(1,149)	1:150:A:TRP:C	1:151:A:LEU:N	1:151:A:LEU:CA	1:151:A:LEU:C	18	1.82
(1,51)	1:62:A:GLY:C	1:63:A:CYS:N	1:63:A:CYS:CA	1:63:A:CYS:C	1	1.8
(1,150)	1:151:A:LEU:N	1:151:A:LEU:CA	1:151:A:LEU:C	1:152:A:PRO:N	16	1.75
(1,136)	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	1:141:A:VAL:N	13	1.75
(1,42)	1:58:A:GLY:N	1:58:A:GLY:CA	1:58:A:GLY:C	1:59:A:CYS:N	18	1.75
(1,13)	1:43:A:PRO:C	1:44:A:LEU:N	1:44:A:LEU:CA	1:44:A:LEU:C	15	1.75
(1,115)	1:128:A:VAL:C	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	7	1.68
(1,10)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:PRO:N	18	1.67
(1,149)	1:150:A:TRP:C	1:151:A:LEU:N	1:151:A:LEU:CA	1:151:A:LEU:C	6	1.65
(1,150)	1:151:A:LEU:N	1:151:A:LEU:CA	1:151:A:LEU:C	1:152:A:PRO:N	2	1.64
(1,136)	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	1:141:A:VAL:N	14	1.6
(1,9)	1:41:A:LYS:C	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	8	1.58
(1,136)	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	1:141:A:VAL:N	12	1.52
(1,115)	1:128:A:VAL:C	1:129:A:ASP:N	1:129:A:ASP:CA	1:129:A:ASP:C	5	1.52
(1,74)	1:104:A:ASP:N	1:104:A:ASP:CA	1:104:A:ASP:C	1:105:A:ILE:N	16	1.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,149)	1:150:A:TRP:C	1:151:A:LEU:N	1:151:A:LEU:CA	1:151:A:LEU:C	11	1.47
(1,51)	1:62:A:GLY:C	1:63:A:CYS:N	1:63:A:CYS:CA	1:63:A:CYS:C	5	1.46
(1,135)	1:139:A:ALA:C	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	1	1.44
(1,42)	1:58:A:GLY:N	1:58:A:GLY:CA	1:58:A:GLY:C	1:59:A:CYS:N	13	1.44
(1,58)	1:66:A:CYS:N	1:66:A:CYS:CA	1:66:A:CYS:C	1:67:A:LEU:N	6	1.41
(1,135)	1:139:A:ALA:C	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	9	1.38
(1,42)	1:58:A:GLY:N	1:58:A:GLY:CA	1:58:A:GLY:C	1:59:A:CYS:N	1	1.35
(1,42)	1:58:A:GLY:N	1:58:A:GLY:CA	1:58:A:GLY:C	1:59:A:CYS:N	8	1.35
(1,71)	1:72:A:CYS:C	1:73:A:THR:N	1:73:A:THR:CA	1:73:A:THR:C	2	1.32
(1,10)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:PRO:N	8	1.31
(1,80)	1:109:A:PRO:N	1:109:A:PRO:CA	1:109:A:PRO:C	1:110:A:GLY:N	15	1.3
(1,113)	1:127:A:CYS:C	1:128:A:VAL:N	1:128:A:VAL:CA	1:128:A:VAL:C	6	1.27
(1,136)	1:140:A:ASN:N	1:140:A:ASN:CA	1:140:A:ASN:C	1:141:A:VAL:N	17	1.26
(1,113)	1:127:A:CYS:C	1:128:A:VAL:N	1:128:A:VAL:CA	1:128:A:VAL:C	17	1.25
(1,13)	1:43:A:PRO:C	1:44:A:LEU:N	1:44:A:LEU:CA	1:44:A:LEU:C	5	1.25
(1,86)	1:113:A:ASP:N	1:113:A:ASP:CA	1:113:A:ASP:C	1:114:A:LEU:N	9	1.24
(1,86)	1:113:A:ASP:N	1:113:A:ASP:CA	1:113:A:ASP:C	1:114:A:LEU:N	10	1.23
(1,74)	1:104:A:ASP:N	1:104:A:ASP:CA	1:104:A:ASP:C	1:105:A:ILE:N	11	1.22
(1,80)	1:109:A:PRO:N	1:109:A:PRO:CA	1:109:A:PRO:C	1:110:A:GLY:N	13	1.19
(1,74)	1:104:A:ASP:N	1:104:A:ASP:CA	1:104:A:ASP:C	1:105:A:ILE:N	13	1.19
(1,61)	1:67:A:LEU:C	1:68:A:SER:N	1:68:A:SER:CA	1:68:A:SER:C	10	1.18
(1,43)	1:58:A:GLY:C	1:59:A:CYS:N	1:59:A:CYS:CA	1:59:A:CYS:C	5	1.13
(1,58)	1:66:A:CYS:N	1:66:A:CYS:CA	1:66:A:CYS:C	1:67:A:LEU:N	4	1.12
(1,113)	1:127:A:CYS:C	1:128:A:VAL:N	1:128:A:VAL:CA	1:128:A:VAL:C	9	1.11
(1,13)	1:43:A:PRO:C	1:44:A:LEU:N	1:44:A:LEU:CA	1:44:A:LEU:C	17	1.11
(1,74)	1:104:A:ASP:N	1:104:A:ASP:CA	1:104:A:ASP:C	1:105:A:ILE:N	6	1.04
(1,149)	1:150:A:TRP:C	1:151:A:LEU:N	1:151:A:LEU:CA	1:151:A:LEU:C	19	1.02
(1,65)	1:69:A:HIS:C	1:70:A:ILE:N	1:70:A:ILE:CA	1:70:A:ILE:C	9	1.02
(1,43)	1:58:A:GLY:C	1:59:A:CYS:N	1:59:A:CYS:CA	1:59:A:CYS:C	3	1.02