



Full wwPDB NMR Structure Validation Report ⓘ

Dec 24, 2024 – 10:34 PM EST

PDB ID : 2MLI
BMRB ID : 19822
Title : NMR structure of B25-(alpha, beta)-dehydro-phenylalanine insulin
Authors : Yang, Y.; Weiss, M.
Deposited on : 2014-02-27

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 ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Mogul : 2022.3.0, CSD as543be (2022)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
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) : 2.40

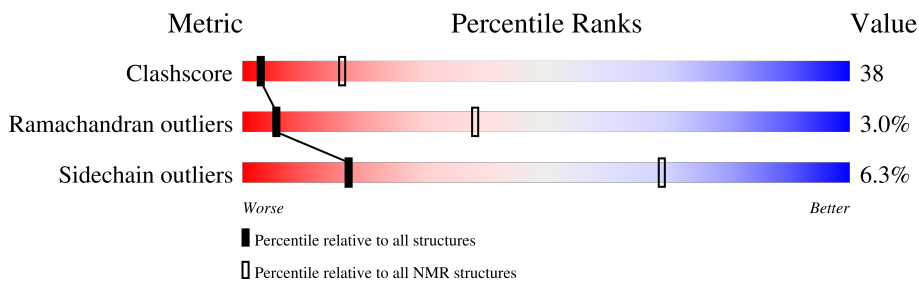
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 80%.

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	210492	14027
Ramachandran outliers	207382	12486
Sidechain outliers	206894	12463

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

Mol	Chain	Length	Quality of chain
1	A	21	
2	B	30	

2 Ensemble composition and analysis i

This entry contains 20 models. Model 19 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *closest to the average*.

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:2-A:21, B:22-B:45, B:47-B:47 (45)	0.06	19

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

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

The models can be grouped into 4 clusters and 1 single-model cluster was found.

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

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 779 atoms, of which 376 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Insulin.

Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
1	A	21	312	99	149	25	35	4	0

- Molecule 2 is a protein called Insulin.

Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
2	B	30	467	156	227	38	44	2	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	31	ASP	HIS	conflict	UNP P01308
B	49	LYS	PRO	conflict	UNP P01308
B	50	PRO	LYS	conflict	UNP P01308

4 Residue-property plots

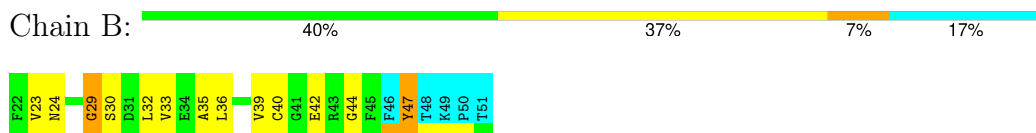
4.1 Average score per residue in the NMR ensemble

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: Insulin



- Molecule 2: Insulin



4.2 Scores per residue for each member of the ensemble

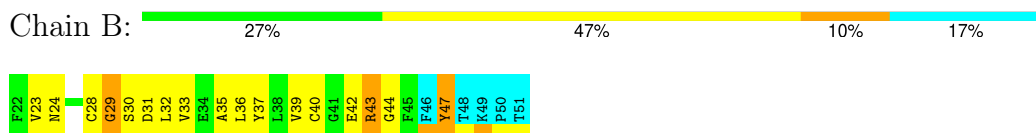
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: Insulin



- Molecule 2: Insulin

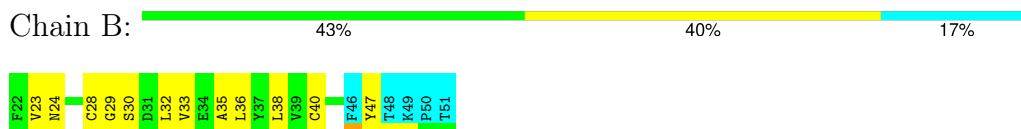


4.2.2 Score per residue for model 2

- Molecule 1: Insulin



- Molecule 2: Insulin

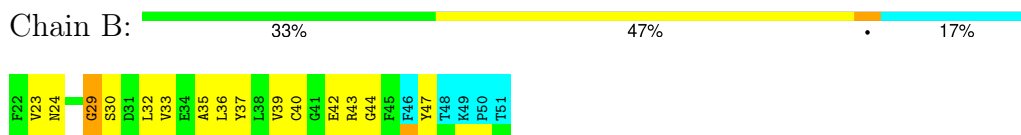


4.2.3 Score per residue for model 3

- Molecule 1: Insulin



- Molecule 2: Insulin

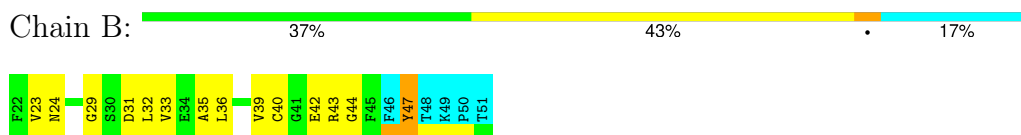


4.2.4 Score per residue for model 4

- Molecule 1: Insulin



- Molecule 2: Insulin

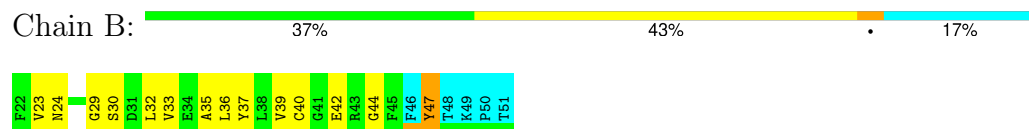


4.2.5 Score per residue for model 5

- Molecule 1: Insulin

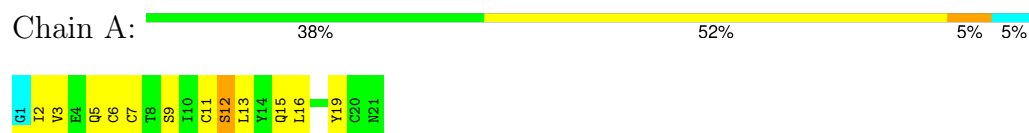


- Molecule 2: Insulin

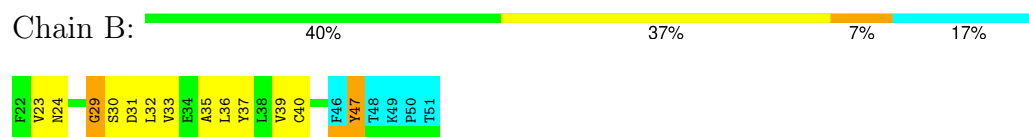


4.2.6 Score per residue for model 6

- Molecule 1: Insulin



- Molecule 2: Insulin

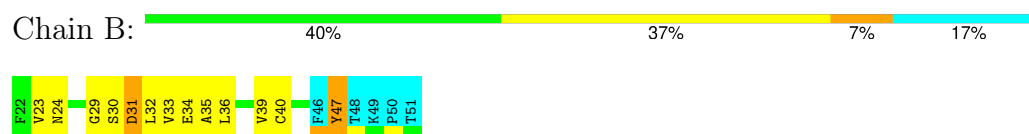


4.2.7 Score per residue for model 7

- Molecule 1: Insulin



- Molecule 2: Insulin



4.2.8 Score per residue for model 8

- Molecule 1: Insulin



- Molecule 2: Insulin

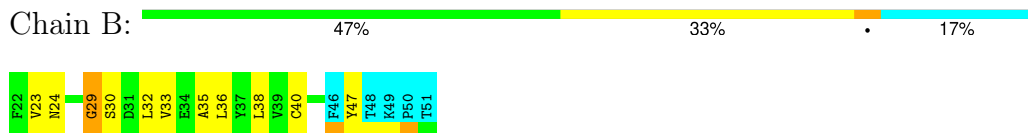


4.2.9 Score per residue for model 9

- Molecule 1: Insulin



- Molecule 2: Insulin

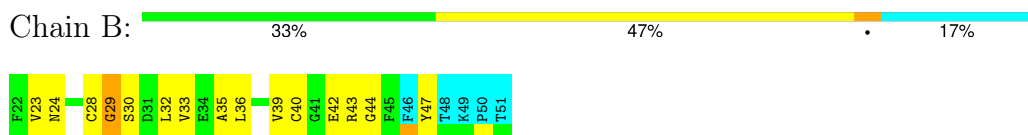


4.2.10 Score per residue for model 10

- Molecule 1: Insulin



- Molecule 2: Insulin

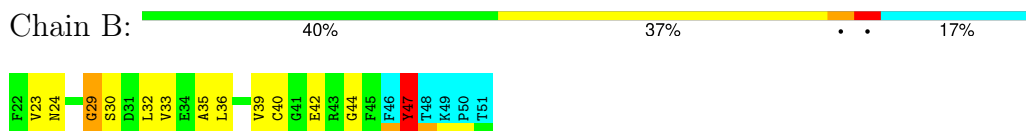


4.2.11 Score per residue for model 11

- Molecule 1: Insulin



- Molecule 2: Insulin

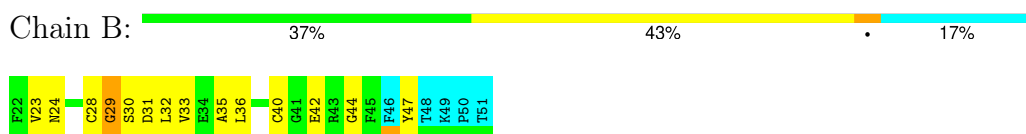


4.2.12 Score per residue for model 12

- Molecule 1: Insulin



- Molecule 2: Insulin

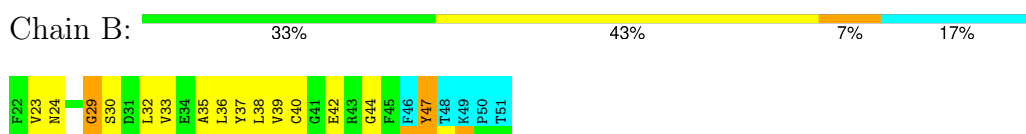


4.2.13 Score per residue for model 13

- Molecule 1: Insulin



- Molecule 2: Insulin

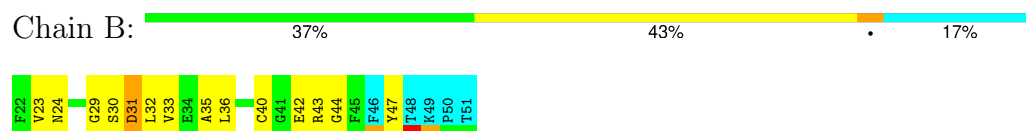


4.2.14 Score per residue for model 14

- Molecule 1: Insulin



- Molecule 2: Insulin

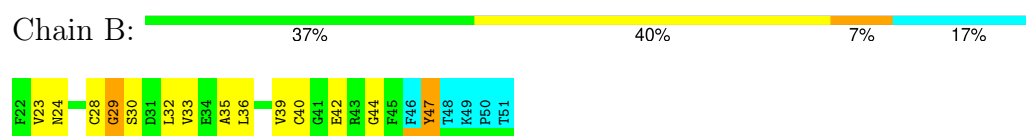


4.2.15 Score per residue for model 15

- Molecule 1: Insulin



- Molecule 2: Insulin



4.2.16 Score per residue for model 16

- Molecule 1: Insulin



- Molecule 2: Insulin



4.2.17 Score per residue for model 17

- Molecule 1: Insulin

Chain A:  29% 62% 5% 5%




- Molecule 2: Insulin

Chain B:  43% 33% 17%



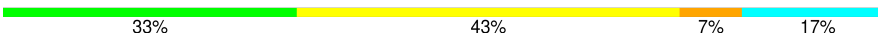
4.2.18 Score per residue for model 18

- Molecule 1: Insulin

Chain A:  29% 62% 5% 5%



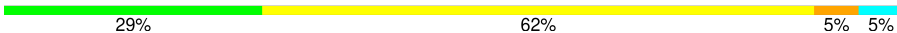
- Molecule 2: Insulin

Chain B:  33% 43% 7% 17%



4.2.19 Score per residue for model 19 (medoid)

- Molecule 1: Insulin

Chain A:  29% 62% 5% 5%



- Molecule 2: Insulin

Chain B:  43% 33% 7% 17%



4.2.20 Score per residue for model 20

- Molecule 1: Insulin

Chain A:  29% 62% 5% 5%



- Molecule 2: Insulin

Chain B:  30% 50% • 17%



5 Refinement protocol and experimental data overview

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

Of the 80 calculated structures, 20 were deposited, based on the following criterion: *structures with acceptable covalent geometry*.

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

Software name	Classification	Version
X-PLOR NIH	structure solution	
X-PLOR NIH	refinement	
Insight II	structure solution	
Procheck	structure solution	

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	510
Number of shifts mapped to atoms	510
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	80%

6 Model quality i

6.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: 23F

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 i

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	159	144	144	15±1
2	B	198	186	183	15±1
All	All	7140	6600	6540	522

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 38.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:2:ILE:HD13	2:B:36:LEU:HD11	0.66	1.68	16	20
1:A:2:ILE:HD11	2:B:32:LEU:HD11	0.65	1.67	7	20
1:A:6:CYS:N	1:A:11:CYS:SG	0.60	2.74	9	20
1:A:15:GLN:O	1:A:19:TYR:CE2	0.59	2.56	19	20
1:A:2:ILE:CD1	2:B:36:LEU:HD11	0.58	2.29	16	20
1:A:2:ILE:O	1:A:6:CYS:SG	0.57	2.62	16	20
2:B:29:GLY:O	2:B:33:VAL:N	0.57	2.37	5	20
2:B:32:LEU:O	2:B:35:ALA:N	0.57	2.38	11	20
1:A:13:LEU:O	1:A:16:LEU:N	0.55	2.40	11	20
1:A:2:ILE:HD12	1:A:19:TYR:CD2	0.55	2.37	17	20
2:B:23:VAL:HG22	2:B:24:ASN:N	0.55	2.17	9	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:38:LEU:C	2:B:38:LEU:HD23	0.54	2.22	19	6
2:B:36:LEU:O	2:B:40:CYS:N	0.54	2.41	2	20
2:B:32:LEU:O	2:B:35:ALA:HB3	0.53	2.03	16	20
2:B:34:GLU:N	2:B:34:GLU:OE1	0.52	2.42	7	1
1:A:6:CYS:O	1:A:9:SER:O	0.50	2.30	18	20
2:B:23:VAL:CG2	2:B:24:ASN:N	0.50	2.75	5	20
1:A:21:ASN:ND2	1:A:21:ASN:OXT	0.49	2.45	10	1
1:A:3:VAL:O	1:A:7:CYS:N	0.49	2.42	5	20
1:A:2:ILE:CD1	2:B:32:LEU:HD11	0.48	2.38	2	20
1:A:5:GLN:H	1:A:5:GLN:CD	0.48	2.12	5	11
1:A:5:GLN:O	1:A:9:SER:O	0.48	2.32	6	20
2:B:31:ASP:N	2:B:31:ASP:OD1	0.47	2.46	14	3
2:B:32:LEU:O	2:B:33:VAL:C	0.47	2.53	7	20
2:B:33:VAL:O	2:B:36:LEU:N	0.47	2.48	7	1
2:B:30:SER:OG	2:B:31:ASP:N	0.46	2.48	6	1
2:B:42:GLU:O	2:B:44:GLY:N	0.46	2.49	20	14
2:B:30:SER:O	2:B:34:GLU:OE1	0.46	2.34	7	1
2:B:36:LEU:O	2:B:39:VAL:N	0.44	2.50	11	13
1:A:20:CYS:O	1:A:21:ASN:OXT	0.43	2.36	4	6
1:A:21:ASN:O	1:A:21:ASN:ND2	0.43	2.51	1	1
1:A:20:CYS:O	1:A:21:ASN:O	0.43	2.37	2	7
1:A:12:SER:O	1:A:13:LEU:C	0.43	2.57	6	13
2:B:29:GLY:O	2:B:30:SER:C	0.43	2.57	18	18
1:A:21:ASN:OXT	1:A:21:ASN:OD1	0.43	2.37	5	3
1:A:21:ASN:O	1:A:21:ASN:OD1	0.42	2.37	8	2
2:B:42:GLU:C	2:B:44:GLY:N	0.41	2.73	20	8
1:A:15:GLN:O	1:A:19:TYR:CD2	0.41	2.74	5	9
2:B:28:CYS:O	2:B:29:GLY:C	0.41	2.59	18	10
2:B:36:LEU:O	2:B:37:TYR:C	0.41	2.59	18	9
2:B:38:LEU:HD23	2:B:38:LEU:C	0.41	2.36	13	2
1:A:13:LEU:O	1:A:17:GLU:N	0.40	2.53	7	1
1:A:2:ILE:HG12	2:B:32:LEU:HD21	0.40	1.93	16	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	19/21 (90%)	17±0 (89±2%)	2±0 (11±2%)	0±0 (0±0%)	100	100
2	B	24/30 (80%)	16±0 (67±2%)	7±1 (28±4%)	1±1 (5±3%)	3	22
All	All	860/1020 (84%)	659 (77%)	175 (20%)	26 (3%)	5	38

All 3 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
2	B	29	GLY	14
2	B	47	TYR	11
2	B	43	ARG	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	20/20 (100%)	19±0 (95±0%)	1±0 (5±0%)	23	76
2	B	21/25 (84%)	19±1 (92±3%)	2±1 (8±3%)	13	63
All	All	820/900 (91%)	768 (94%)	52 (6%)	17	69

All 4 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	12	SER	20
2	B	47	TYR	20
2	B	43	ARG	6
2	B	31	ASP	6

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue is modelled in this entry.

In the following table, the Counts columns list the number of bonds for which Mogul statistics could be retrieved, the number of bonds that are observed in the model and the number of bonds that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length is the number of standard deviations the observed value is removed from the expected value. A bond length with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
2	23F	B	46	2	10,11,12	3.09±0.01	7±0 (70±0%)

In the following table, the Counts columns list the number of angles for which Mogul statistics could be retrieved, the number of angles that are observed in the model and the number of angles that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond angle is the number of standard deviations the observed value is removed from the expected value. A bond angle with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond angles.

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
2	23F	B	46	2	11,13,15	1.55±0.02	1±0 (9±0%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	23F	B	46	2	-	1±0,4,6,8	0±0,1,1,1

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	B	46	23F	CD1-CG	4.80	1.49	1.39	4	20
2	B	46	23F	CD2-CG	4.16	1.47	1.39	3	20
2	B	46	23F	C-CA	3.49	1.51	1.45	19	20
2	B	46	23F	CE1-CD1	3.43	1.44	1.38	10	20
2	B	46	23F	CZ-CE2	3.24	1.45	1.38	7	20
2	B	46	23F	CZ-CE1	3.18	1.45	1.38	1	20
2	B	46	23F	CG-CB	2.80	1.52	1.46	1	20

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	B	46	23F	O-C-CA	4.73	119.46	125.39	17	20

There are no chirality outliers.

All unique torsion outliers are listed below.

Mol	Chain	Res	Type	Atoms	Models (Total)
2	B	46	23F	O-C-CA-CB	20

There are no ring outliers.

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation i

The completeness of assignment taking into account all chemical shift lists is 80% for the well-defined parts and 77% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping i

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

Total number of shifts	510
Number of shifts mapped to atoms	510
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

7.1.2 Chemical shift referencing i

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	39	0.41 ± 0.31	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	39	0.06 ± 0.20	None needed (< 0.5 ppm)
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	32	1.05 ± 0.52	Should be applied

7.1.3 Completeness of resonance assignments i

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 80%, i.e. 474 atoms were assigned a chemical shift out of a possible 594. 0 out of 10 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	155/228 (68%)	85/93 (91%)	38/90 (42%)	32/45 (71%)
Sidechain	273/303 (90%)	185/198 (93%)	81/96 (84%)	7/9 (78%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	46/63 (73%)	28/30 (93%)	18/32 (56%)	0/1 (0%)
Overall	474/594 (80%)	298/321 (93%)	137/218 (63%)	39/55 (71%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 77%, i.e. 503 atoms were assigned a chemical shift out of a possible 652. 0 out of 10 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	165/252 (65%)	94/103 (91%)	39/100 (39%)	32/49 (65%)
Sidechain	292/337 (87%)	204/220 (93%)	81/107 (76%)	7/10 (70%)
Aromatic	46/63 (73%)	28/30 (93%)	18/32 (56%)	0/1 (0%)
Overall	503/652 (77%)	326/353 (92%)	138/239 (58%)	39/60 (65%)

7.1.4 Statistically unusual chemical shifts [i](#)

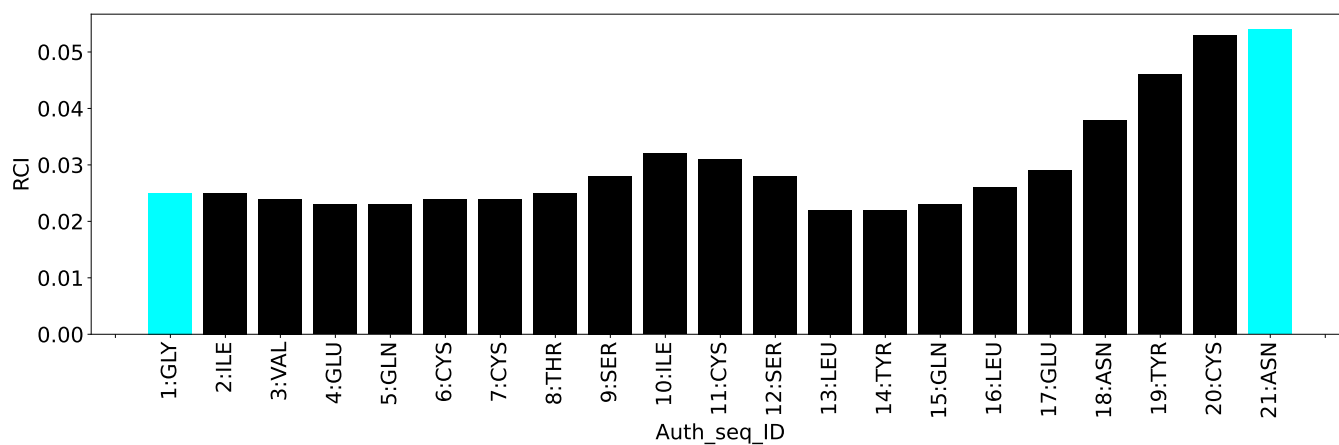
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	B	49	LYS	HD2	2.91	0.58 – 2.64	6.3

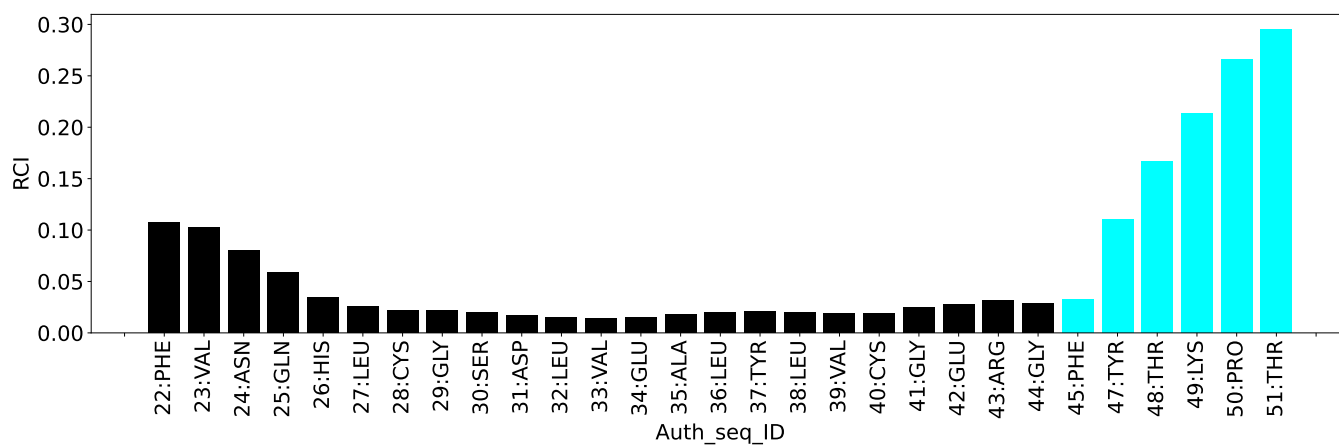
7.1.5 Random Coil Index (RCI) plots [i](#)

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:



Random coil index (RCI) for chain B:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	931
Intra-residue ($ i-j =0$)	294
Sequential ($ i-j =1$)	217
Medium range ($ i-j >1$ and $ i-j <5$)	175
Long range ($ i-j \geq 5$)	78
Inter-chain	167
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	86
Number of unmapped restraints	0
Number of restraints per residue	19.9
Number of long range restraints per residue ¹	1.5

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	35.3	0.2
0.2-0.5 (Medium)	15.7	0.49
>0.5 (Large)	18.4	3.53

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)	11.2	3.49
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis i

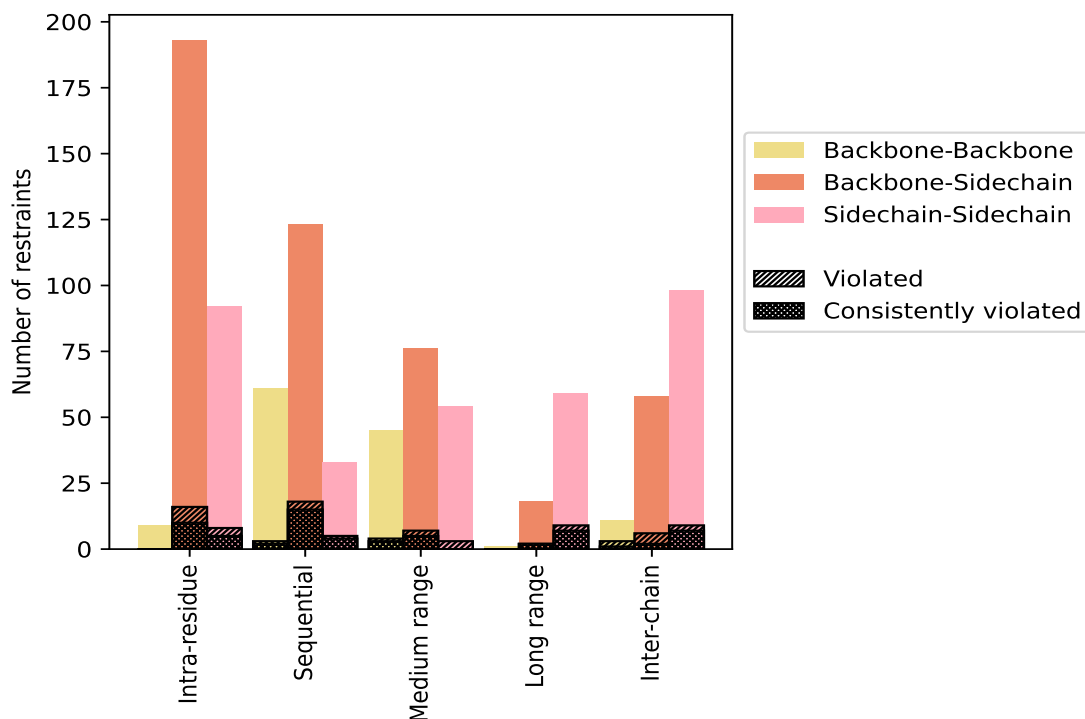
9.1 Summary of distance violations i

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	294	31.6	24	8.2	2.6	15	5.1	1.6
Backbone-Backbone	9	1.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	193	20.7	16	8.3	1.7	10	5.2	1.1
Sidechain-Sidechain	92	9.9	8	8.7	0.9	5	5.4	0.5
Sequential ($i-j =1$)	217	23.3	26	12.0	2.8	21	9.7	2.3
Backbone-Backbone	61	6.6	3	4.9	0.3	2	3.3	0.2
Backbone-Sidechain	123	13.2	18	14.6	1.9	15	12.2	1.6
Sidechain-Sidechain	33	3.5	5	15.2	0.5	4	12.1	0.4
Medium range ($i-j >1$ & $i-j <5$)	175	18.8	14	8.0	1.5	8	4.6	0.9
Backbone-Backbone	45	4.8	4	8.9	0.4	3	6.7	0.3
Backbone-Sidechain	76	8.2	7	9.2	0.8	5	6.6	0.5
Sidechain-Sidechain	54	5.8	3	5.6	0.3	0	0.0	0.0
Long range ($i-j \geq 5$)	78	8.4	11	14.1	1.2	9	11.5	1.0
Backbone-Backbone	1	0.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	18	1.9	2	11.1	0.2	2	11.1	0.2
Sidechain-Sidechain	59	6.3	9	15.3	1.0	7	11.9	0.8
Inter-chain	167	17.9	18	10.8	1.9	10	6.0	1.1
Backbone-Backbone	11	1.2	3	27.3	0.3	1	9.1	0.1
Backbone-Sidechain	58	6.2	6	10.3	0.6	2	3.4	0.2
Sidechain-Sidechain	98	10.5	9	9.2	1.0	7	7.1	0.8
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	931	100.0	93	10.0	10.0	63	6.8	6.8
Backbone-Backbone	127	13.6	10	7.9	1.1	6	4.7	0.6
Backbone-Sidechain	468	50.3	49	10.5	5.3	34	7.3	3.7
Sidechain-Sidechain	336	36.1	34	10.1	3.7	23	6.8	2.5

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	17	22	11	9	13	72	0.67	3.49	0.96	0.19
2	17	23	11	9	11	71	0.68	3.5	0.97	0.2
3	19	22	12	9	12	74	0.66	3.49	0.96	0.18
4	20	24	12	9	12	77	0.63	3.5	0.95	0.18
5	17	22	10	9	12	70	0.7	3.49	0.98	0.2
6	18	23	12	9	12	74	0.67	3.48	0.96	0.19
7	18	24	12	9	13	76	0.66	3.49	0.96	0.19
8	17	24	12	9	11	73	0.68	3.5	0.97	0.2
9	19	22	12	9	16	78	0.63	3.49	0.94	0.18
10	20	24	9	9	13	75	0.66	3.49	0.96	0.19

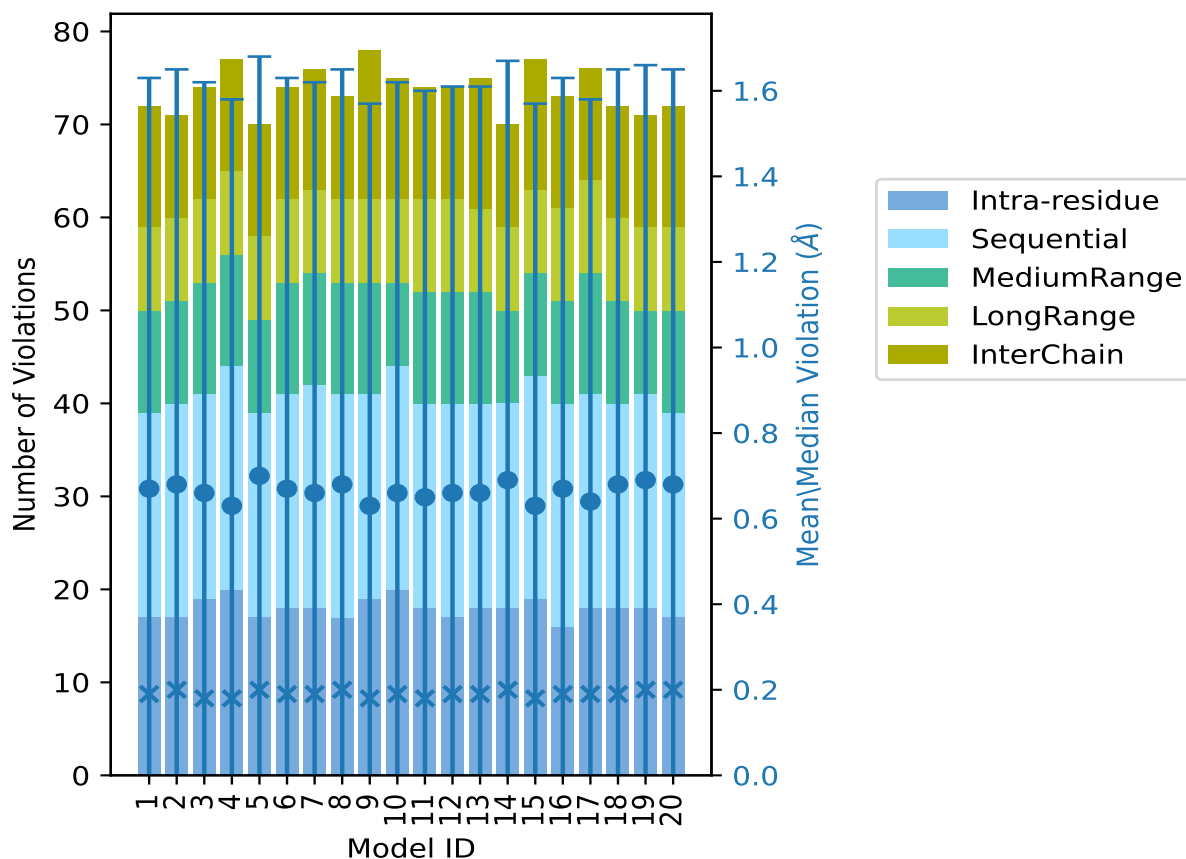
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	18	22	12	10	12	74	0.65	3.5	0.95	0.18
12	17	23	12	10	12	74	0.66	3.49	0.95	0.19
13	18	22	12	9	14	75	0.66	3.5	0.95	0.19
14	18	22	10	9	11	70	0.69	3.49	0.98	0.2
15	19	24	11	9	14	77	0.63	3.5	0.94	0.18
16	16	24	11	10	12	73	0.67	3.49	0.96	0.19
17	18	23	13	10	12	76	0.64	3.51	0.94	0.19
18	18	22	11	9	12	72	0.68	3.5	0.97	0.19
19	18	23	9	9	12	71	0.69	3.53	0.97	0.2
20	17	22	11	9	13	72	0.68	3.52	0.97	0.2

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

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



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

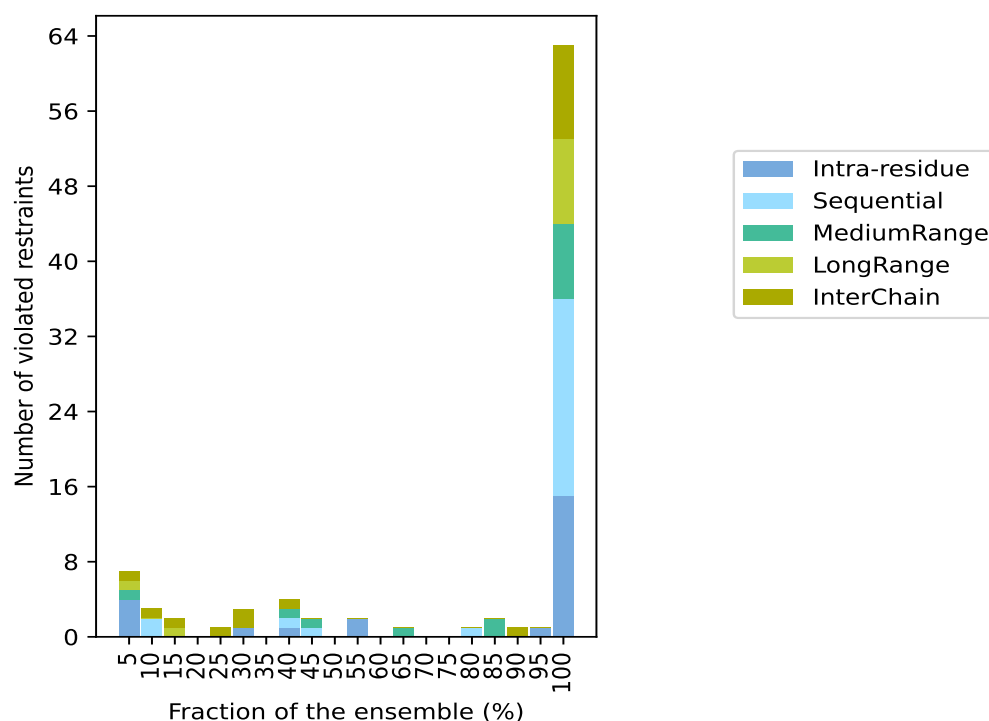
9.3 Distance violation statistics for the ensemble

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 838(IR:270, SQ:191, MR:161, LR:67, IC:149) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
4	0	1	1	1	7	1	5.0
0	2	0	0	1	3	2	10.0
0	0	0	1	1	2	3	15.0
0	0	0	0	0	0	4	20.0
0	0	0	0	1	1	5	25.0
1	0	0	0	2	3	6	30.0
0	0	0	0	0	0	7	35.0
1	1	1	0	1	4	8	40.0
0	1	1	0	0	2	9	45.0
0	0	0	0	0	0	10	50.0
2	0	0	0	0	2	11	55.0
0	0	0	0	0	0	12	60.0
0	0	1	0	0	1	13	65.0
0	0	0	0	0	0	14	70.0
0	0	0	0	0	0	15	75.0
0	1	0	0	0	1	16	80.0
0	0	2	0	0	2	17	85.0
0	0	0	0	1	1	18	90.0
1	0	0	0	0	1	19	95.0
15	21	8	9	10	63	20	100.0

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

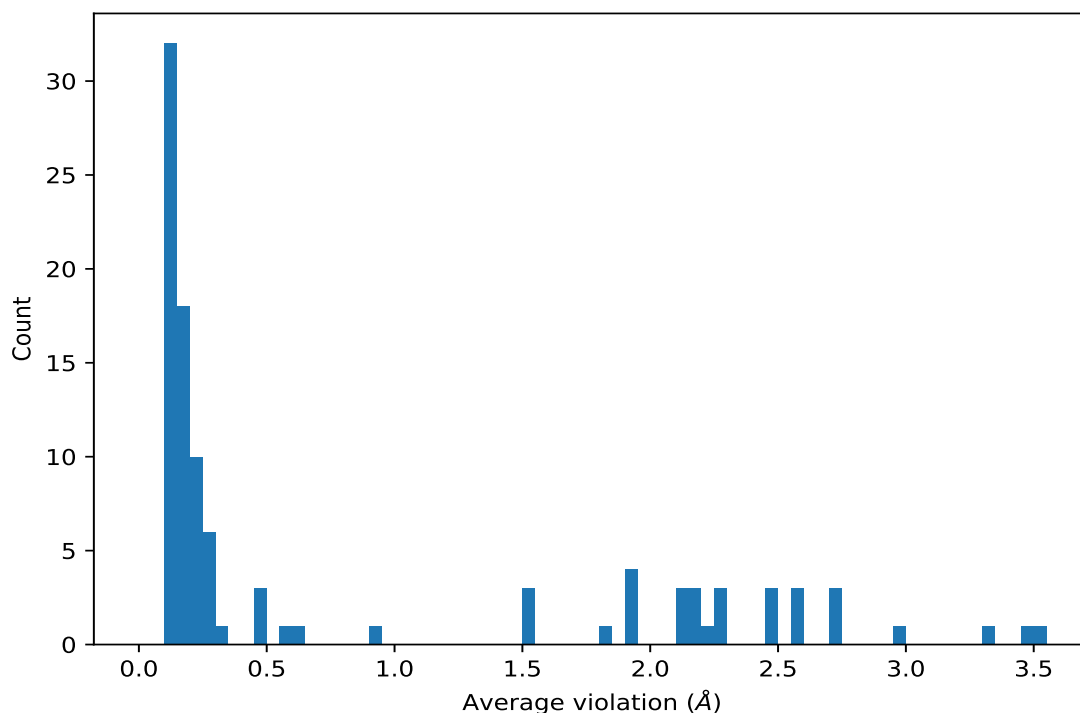
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	20	3.5	0.01	3.5
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	20	3.47	0.01	3.47
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	20	3.31	0.03	3.32
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	20	2.98	0.02	2.98
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	20	2.71	0.01	2.71
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	20	2.71	0.01	2.71
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	20	2.71	0.01	2.71
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	20	2.59	0.01	2.59
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	20	2.59	0.01	2.59
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	20	2.59	0.01	2.59
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	20	2.48	0.04	2.47
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	20	2.48	0.04	2.47
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	20	2.48	0.04	2.47
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	20	2.26	0.02	2.26
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	20	2.26	0.02	2.26
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	20	2.26	0.02	2.26

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	20	2.24	0.01	2.24
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	20	2.18	0.02	2.18
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	20	2.18	0.02	2.18
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	20	2.18	0.02	2.18
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	20	2.13	0.03	2.14
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	20	2.13	0.03	2.14
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	20	2.13	0.03	2.14
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	20	1.93	0.07	1.94
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	20	1.9	0.04	1.9
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	20	1.9	0.04	1.9
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	20	1.9	0.04	1.9
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	20	1.8	0.43	1.96
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	20	1.5	0.03	1.5
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	20	1.5	0.03	1.5
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	20	1.5	0.03	1.5
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	20	0.9	0.02	0.9
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	20	0.64	0.01	0.64
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	20	0.55	0.01	0.55
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	20	0.48	0.05	0.46
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	20	0.48	0.05	0.46
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	20	0.48	0.05	0.46
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	20	0.3	0.02	0.3
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	20	0.28	0.0	0.28
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	20	0.27	0.01	0.27
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	20	0.26	0.01	0.26
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	20	0.26	0.01	0.26
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	20	0.26	0.01	0.26
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	20	0.23	0.02	0.24
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	20	0.23	0.0	0.23
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	20	0.22	0.01	0.22
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	20	0.22	0.01	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	20	0.22	0.0	0.22
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	20	0.22	0.01	0.22
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	20	0.21	0.0	0.21
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	20	0.21	0.01	0.21
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	20	0.21	0.0	0.21
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	20	0.2	0.02	0.2
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	20	0.19	0.01	0.19
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	20	0.19	0.03	0.19
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	20	0.18	0.0	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	20	0.18	0.0	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	20	0.18	0.0	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	20	0.18	0.0	0.18
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	20	0.18	0.0	0.18
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	20	0.17	0.02	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	20	0.17	0.0	0.17
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	20	0.17	0.01	0.17
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	20	0.16	0.01	0.16
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	20	0.16	0.01	0.16
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	20	0.15	0.0	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	20	0.15	0.0	0.15
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	20	0.15	0.02	0.14
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	20	0.14	0.0	0.14
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	20	0.14	0.01	0.15
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	20	0.14	0.01	0.14
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	20	0.14	0.01	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	20	0.14	0.0	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	20	0.14	0.0	0.14
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	20	0.14	0.01	0.13
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	20	0.13	0.01	0.13
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	20	0.12	0.01	0.12
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	20	0.12	0.01	0.12
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	20	0.12	0.0	0.12
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	20	0.11	0.01	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	20	0.11	0.0	0.11
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	19	0.1	0.0	0.1
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	18	0.12	0.01	0.13
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	17	0.13	0.01	0.14
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	17	0.12	0.02	0.12
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	16	0.12	0.02	0.13
(1,113)	1:5:A:GLN:HA	1:9:A:SER:HB3	13	0.1	0.01	0.1
(1,713)	2:34:B:GLU:HA	2:34:B:GLU:HG3	11	0.15	0.02	0.14
(1,921)	2:50:B:PRO:HA	2:50:B:PRO:HD3	11	0.13	0.01	0.13
(1,187)	1:12:A:SER:HB2	1:13:A:LEU:H	9	0.11	0.01	0.11
(1,387)	1:17:A:GLU:HA	1:20:A:CYS:H	9	0.1	0.0	0.1
(1,916)	2:49:B:LYS:HB3	2:50:B:PRO:HD3	8	0.19	0.03	0.2
(1,476)	1:20:A:CYS:HA	2:45:B:PHE:HB2	8	0.11	0.01	0.11
(1,240)	1:13:A:LEU:HG	1:17:A:GLU:HG2	8	0.1	0.0	0.1
(1,103)	1:5:A:GLN:HG3	1:5:A:GLN:HE21	8	0.1	0.0	0.1
(1,876)	2:43:B:ARG:HB2	2:43:B:ARG:HE	6	0.19	0.01	0.19
(1,488)	1:21:A:ASN:HB2	2:43:B:ARG:HB3	6	0.11	0.01	0.11
(1,494)	1:21:A:ASN:HB3	2:45:B:PHE:HA	6	0.11	0.01	0.11
(1,496)	1:21:A:ASN:HA	2:46:B:23F:H	5	0.11	0.01	0.11
(1,202)	1:12:A:SER:HA	2:23:B:VAL:H	3	0.28	0.11	0.28

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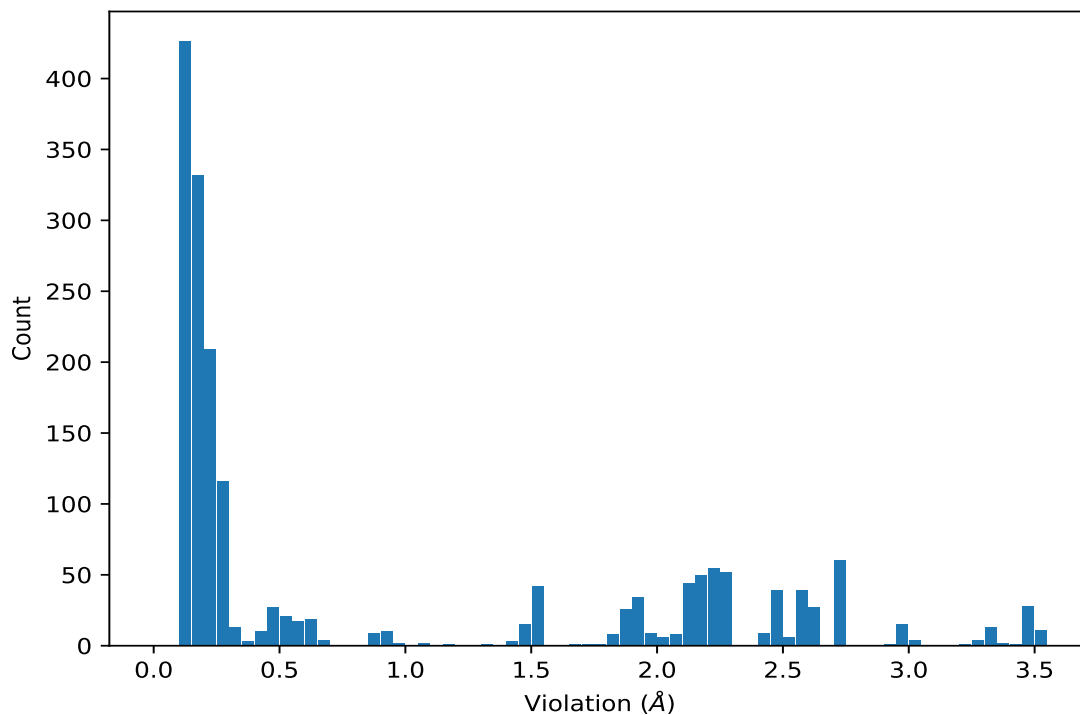
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,708)	2:33:B:VAL:HB	2:45:B:PHE:HE1	3	0.12	0.01	0.12
(1,918)	2:49:B:LYS:HB2	2:50:B:PRO:HA	2	0.12	0.01	0.12
(1,917)	2:49:B:LYS:HB3	2:50:B:PRO:HA	2	0.12	0.0	0.12
(1,398)	1:17:A:GLU:HG2	2:40:B:CYS:HA	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	19	3.53
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	20	3.52
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	17	3.51
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	2	3.5
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	4	3.5
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	8	3.5
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	11	3.5
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	13	3.5
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	15	3.5
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	18	3.5
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	4	3.5
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	1	3.49
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	3	3.49
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	5	3.49
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	7	3.49
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	9	3.49
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	10	3.49
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	12	3.49
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	14	3.49
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	16	3.49
(1,786)	2:37:B:TYR:HD2	2:38:B:LEU:HB2	6	3.48
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	6	3.48
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	7	3.48
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	9	3.48
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	14	3.48
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	1	3.47
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	2	3.47
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	10	3.47
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	11	3.47
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	12	3.47
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	13	3.47
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	20	3.47
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	3	3.46
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	5	3.46
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	8	3.46
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	15	3.46
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	17	3.46
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	18	3.46
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	19	3.46
(1,782)	2:37:B:TYR:HD2	2:38:B:LEU:HA	16	3.44
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	4	3.38
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	8	3.35
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	7	3.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	16	3.34
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	18	3.34
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	5	3.33
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	15	3.33
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	1	3.32
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	2	3.32
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	3	3.32
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	6	3.32
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	19	3.32
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	20	3.32
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	9	3.31
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	10	3.3
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	13	3.29
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	14	3.29
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	17	3.28
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	11	3.25
(1,681)	2:32:B:LEU:HG	2:47:B:TYR:HD1	12	3.23
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	4	3.01
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	7	3.0
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	9	3.0
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	14	3.0
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	1	2.99
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	6	2.99
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	2	2.98
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	10	2.98
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	11	2.98
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	12	2.98
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	13	2.98
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	20	2.98
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	3	2.97
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	5	2.97
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	8	2.97
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	15	2.97
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	19	2.97
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	17	2.96
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	18	2.96
(1,785)	2:37:B:TYR:HE2	2:38:B:LEU:HA	16	2.93
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	4	2.74
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	4	2.74
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	4	2.74
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	7	2.73
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	7	2.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	7	2.73
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	3	2.72
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	3	2.72
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	3	2.72
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	5	2.72
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	5	2.72
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	5	2.72
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	6	2.72
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	6	2.72
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	6	2.72
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	8	2.72
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	8	2.72
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	8	2.72
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	15	2.72
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	15	2.72
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	15	2.72
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	16	2.72
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	16	2.72
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	16	2.72
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	1	2.71
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	1	2.71
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	1	2.71
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	9	2.71
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	9	2.71
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	9	2.71
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	10	2.71
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	10	2.71
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	10	2.71
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	13	2.71
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	13	2.71
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	13	2.71
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	18	2.71
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	18	2.71
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	18	2.71
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	19	2.71
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	19	2.71
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	19	2.71
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	20	2.71
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	20	2.71
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	20	2.71
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	2	2.7
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	2	2.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	2	2.7
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	11	2.7
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	11	2.7
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	11	2.7
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	12	2.7
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	12	2.7
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	12	2.7
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	14	2.7
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	14	2.7
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	14	2.7
(1,60)	1:2:A:ILE:HD11	2:47:B:TYR:HD1	17	2.7
(1,60)	1:2:A:ILE:HD12	2:47:B:TYR:HD1	17	2.7
(1,60)	1:2:A:ILE:HD13	2:47:B:TYR:HD1	17	2.7
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	4	2.62
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	4	2.62
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	4	2.62
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	7	2.61
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	7	2.61
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	7	2.61
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	8	2.61
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	8	2.61
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	8	2.61
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	11	2.61
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	11	2.61
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	11	2.61
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	1	2.6
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	1	2.6
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	1	2.6
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	6	2.6
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	6	2.6
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	6	2.6
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	16	2.6
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	16	2.6
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	16	2.6
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	18	2.6
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	18	2.6
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	18	2.6
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	11	2.6
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	11	2.6
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	11	2.6
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	3	2.59
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	3	2.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	3	2.59
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	5	2.59
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	5	2.59
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	5	2.59
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	10	2.59
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	10	2.59
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	10	2.59
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	15	2.59
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	15	2.59
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	15	2.59
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	17	2.59
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	17	2.59
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	17	2.59
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	20	2.59
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	20	2.59
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	20	2.59
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	2	2.58
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	2	2.58
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	2	2.58
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	9	2.58
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	9	2.58
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	9	2.58
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	13	2.58
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	13	2.58
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	13	2.58
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	14	2.58
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	14	2.58
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	14	2.58
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	19	2.57
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	19	2.57
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	19	2.57
(1,59)	1:2:A:ILE:HD11	2:47:B:TYR:HE1	12	2.56
(1,59)	1:2:A:ILE:HD12	2:47:B:TYR:HE1	12	2.56
(1,59)	1:2:A:ILE:HD13	2:47:B:TYR:HE1	12	2.56
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	12	2.55
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	12	2.55
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	12	2.55
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	17	2.53
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	17	2.53
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	17	2.53
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	6	2.5
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	6	2.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	6	2.5
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	3	2.48
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	3	2.48
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	3	2.48
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	4	2.48
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	4	2.48
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	4	2.48
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	15	2.48
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	15	2.48
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	15	2.48
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	1	2.47
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	1	2.47
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	1	2.47
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	5	2.47
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	5	2.47
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	5	2.47
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	7	2.47
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	7	2.47
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	7	2.47
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	8	2.47
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	8	2.47
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	8	2.47
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	10	2.47
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	10	2.47
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	10	2.47
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	13	2.47
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	13	2.47
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	13	2.47
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	14	2.47
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	14	2.47
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	14	2.47
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	18	2.47
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	18	2.47
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	18	2.47
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	9	2.46
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	9	2.46
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	9	2.46
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	16	2.46
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	16	2.46
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	16	2.46
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	20	2.44
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	20	2.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	20	2.44
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	2	2.43
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	2	2.43
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	2	2.43
(1,57)	1:2:A:ILE:HG21	2:47:B:TYR:HE1	19	2.42
(1,57)	1:2:A:ILE:HG22	2:47:B:TYR:HE1	19	2.42
(1,57)	1:2:A:ILE:HG23	2:47:B:TYR:HE1	19	2.42
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	19	2.28
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	19	2.28
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	19	2.28
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	3	2.27
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	3	2.27
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	3	2.27
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	4	2.27
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	4	2.27
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	4	2.27
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	7	2.27
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	7	2.27
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	7	2.27
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	8	2.27
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	8	2.27
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	8	2.27
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	9	2.27
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	9	2.27
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	9	2.27
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	15	2.27
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	15	2.27
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	15	2.27
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	1	2.26
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	1	2.26
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	1	2.26
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	5	2.26
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	5	2.26
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	5	2.26
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	6	2.26
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	6	2.26
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	6	2.26
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	10	2.26
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	10	2.26
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	10	2.26
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	16	2.26
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	16	2.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	16	2.26
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	20	2.26
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	20	2.26
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	20	2.26
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	4	2.25
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	10	2.25
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	19	2.25
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	20	2.25
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	2	2.25
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	2	2.25
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	2	2.25
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	13	2.25
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	13	2.25
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	13	2.25
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	18	2.25
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	18	2.25
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	18	2.25
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	7	2.24
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	1	2.24
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	2	2.24
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	3	2.24
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	5	2.24
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	6	2.24
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	8	2.24
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	11	2.24
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	12	2.24
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	13	2.24
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	14	2.24
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	15	2.24
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	16	2.24
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	17	2.24
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	18	2.24
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	14	2.24
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	14	2.24
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	14	2.24
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	17	2.24
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	17	2.24
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	17	2.24
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	7	2.23
(1,783)	2:37:B:TYR:HD2	2:38:B:LEU:H	9	2.23
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	11	2.22
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	11	2.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	11	2.22
(1,772)	2:36:B:LEU:HD11	2:47:B:TYR:HD1	12	2.22
(1,772)	2:36:B:LEU:HD12	2:47:B:TYR:HD1	12	2.22
(1,772)	2:36:B:LEU:HD13	2:47:B:TYR:HD1	12	2.22
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	4	2.22
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	4	2.22
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	4	2.22
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	11	2.22
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	11	2.22
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	11	2.22
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	5	2.21
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	19	2.21
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	6	2.2
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	6	2.2
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	6	2.2
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	7	2.2
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	7	2.2
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	7	2.2
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	8	2.2
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	8	2.2
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	8	2.2
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	12	2.2
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	12	2.2
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	12	2.2
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	16	2.2
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	16	2.2
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	16	2.2
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	17	2.2
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	17	2.2
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	17	2.2
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	15	2.19
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	15	2.19
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	15	2.19
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	18	2.19
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	18	2.19
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	18	2.19
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	13	2.18
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	4	2.18
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	4	2.18
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	4	2.18
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	1	2.18
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	1	2.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	1	2.18
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	3	2.18
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	3	2.18
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	3	2.18
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	5	2.18
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	5	2.18
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	5	2.18
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	8	2.17
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	9	2.17
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	9	2.17
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	9	2.17
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	10	2.17
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	10	2.17
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	10	2.17
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	13	2.17
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	13	2.17
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	13	2.17
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	14	2.17
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	14	2.17
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	14	2.17
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	8	2.16
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	8	2.16
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	8	2.16
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	16	2.16
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	16	2.16
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	16	2.16
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	20	2.16
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	20	2.16
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	20	2.16
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	7	2.15
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	7	2.15
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	7	2.15
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	15	2.15
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	15	2.15
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	15	2.15
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	18	2.15
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	18	2.15
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	18	2.15
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	14	2.14
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	1	2.14
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	1	2.14
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	1	2.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	3	2.14
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	3	2.14
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	3	2.14
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	5	2.14
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	5	2.14
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	5	2.14
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	6	2.14
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	6	2.14
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	6	2.14
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	20	2.14
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	20	2.14
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	20	2.14
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	2	2.14
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	2	2.14
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	2	2.14
(1,58)	1:2:A:ILE:HG21	2:47:B:TYR:HD1	19	2.14
(1,58)	1:2:A:ILE:HG22	2:47:B:TYR:HD1	19	2.14
(1,58)	1:2:A:ILE:HG23	2:47:B:TYR:HD1	19	2.14
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	2	2.13
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	2	2.13
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	2	2.13
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	9	2.13
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	9	2.13
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	9	2.13
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	19	2.13
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	19	2.13
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	19	2.13
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	6	2.12
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	10	2.12
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	10	2.12
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	10	2.12
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	14	2.12
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	14	2.12
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	14	2.12
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	13	2.11
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	13	2.11
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	13	2.11
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	17	2.1
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	17	2.1
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	17	2.1
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	11	2.09
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	11	2.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	11	2.09
(1,680)	2:32:B:LEU:HD11	2:47:B:TYR:HD1	12	2.07
(1,680)	2:32:B:LEU:HD12	2:47:B:TYR:HD1	12	2.07
(1,680)	2:32:B:LEU:HD13	2:47:B:TYR:HD1	12	2.07
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	3	2.06
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	10	2.06
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	4	2.04
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	16	2.01
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	8	2.0
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	4	2.0
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	4	2.0
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	4	2.0
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	20	1.99
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	7	1.99
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	18	1.99
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	20	1.97
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	16	1.97
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	16	1.97
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	16	1.97
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	1	1.96
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	2	1.96
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	2	1.94
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	5	1.94
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	15	1.94
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	7	1.94
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	7	1.94
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	7	1.94
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	8	1.94
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	8	1.94
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	8	1.94
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	18	1.94
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	18	1.94
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	18	1.94
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	3	1.93
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	6	1.93
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	10	1.93
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	19	1.93
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	9	1.92
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	14	1.91
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	5	1.91
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	5	1.91
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	5	1.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	12	1.9
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	1	1.9
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	1	1.9
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	1	1.9
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	6	1.9
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	6	1.9
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	6	1.9
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	15	1.9
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	15	1.9
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	15	1.9
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	20	1.9
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	20	1.9
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	20	1.9
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	13	1.89
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	2	1.89
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	2	1.89
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	2	1.89
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	3	1.88
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	3	1.88
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	3	1.88
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	14	1.88
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	14	1.88
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	14	1.88
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	17	1.87
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	10	1.87
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	10	1.87
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	10	1.87
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	11	1.87
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	11	1.87
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	11	1.87
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	9	1.86
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	9	1.86
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	9	1.86
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	13	1.85
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	13	1.85
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	13	1.85
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	17	1.85
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	17	1.85
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	17	1.85
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	19	1.84
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	19	1.84
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	19	1.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	16	1.83
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	11	1.81
(1,679)	2:32:B:LEU:HD21	2:47:B:TYR:HE1	12	1.81
(1,679)	2:32:B:LEU:HD22	2:47:B:TYR:HE1	12	1.81
(1,679)	2:32:B:LEU:HD23	2:47:B:TYR:HE1	12	1.81
(1,682)	2:32:B:LEU:HG	2:47:B:TYR:HE1	12	1.75
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	9	1.72
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	18	1.68
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	4	1.53
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	4	1.53
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	4	1.53
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	7	1.52
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	7	1.52
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	7	1.52
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	8	1.52
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	8	1.52
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	8	1.52
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	16	1.52
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	16	1.52
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	16	1.52
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	1	1.51
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	1	1.51
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	1	1.51
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	18	1.51
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	18	1.51
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	18	1.51
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	20	1.51
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	20	1.51
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	20	1.51
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	2	1.5
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	2	1.5
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	2	1.5
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	3	1.5
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	3	1.5
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	3	1.5
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	6	1.5
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	6	1.5
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	6	1.5
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	9	1.5
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	9	1.5
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	9	1.5
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	10	1.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	10	1.5
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	10	1.5
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	15	1.5
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	15	1.5
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	15	1.5
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	19	1.5
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	19	1.5
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	19	1.5
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	5	1.49
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	5	1.49
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	5	1.49
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	13	1.48
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	13	1.48
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	13	1.48
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	14	1.48
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	14	1.48
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	14	1.48
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	17	1.47
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	17	1.47
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	17	1.47
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	11	1.45
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	11	1.45
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	11	1.45
(1,773)	2:36:B:LEU:HD11	2:47:B:TYR:HE1	12	1.42
(1,773)	2:36:B:LEU:HD12	2:47:B:TYR:HE1	12	1.42
(1,773)	2:36:B:LEU:HD13	2:47:B:TYR:HE1	12	1.42
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	11	1.31
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	17	1.19
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	1	1.06
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	15	1.06
(1,909)	2:47:B:TYR:HD2	2:48:B:THR:H	4	0.97
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	11	0.95
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	9	0.92
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	12	0.92
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	2	0.91
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	5	0.91
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	6	0.91
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	7	0.91
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	3	0.9
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	13	0.9
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	15	0.9
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	19	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	1	0.89
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	8	0.89
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	10	0.89
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	14	0.89
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	16	0.89
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	17	0.89
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	18	0.89
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	20	0.89
(1,792)	2:37:B:TYR:HD1	2:45:B:PHE:HE2	4	0.88
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	16	0.66
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	3	0.65
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	11	0.65
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	18	0.65
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	1	0.64
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	2	0.64
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	5	0.64
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	6	0.64
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	8	0.64
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	10	0.64
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	12	0.64
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	13	0.64
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	15	0.64
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	17	0.64
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	19	0.64
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	11	0.64
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	11	0.64
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	11	0.64
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	7	0.63
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	9	0.63
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	14	0.63
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	20	0.63
(1,781)	2:37:B:TYR:HA	2:37:B:TYR:HE1	4	0.62
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	16	0.57
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	3	0.56
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	5	0.56
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	8	0.56
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	11	0.56
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	15	0.56
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	17	0.56
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	18	0.56
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	19	0.56
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	1	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	2	0.55
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	6	0.55
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	7	0.55
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	10	0.55
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	12	0.55
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	13	0.55
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	14	0.55
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	9	0.54
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	20	0.54
(1,774)	2:37:B:TYR:HA	2:37:B:TYR:HD1	4	0.53
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	6	0.53
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	6	0.53
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	6	0.53
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	12	0.53
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	12	0.53
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	12	0.53
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	4	0.52
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	4	0.52
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	4	0.52
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	16	0.52
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	16	0.52
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	16	0.52
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	17	0.52
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	17	0.52
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	17	0.52
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	7	0.51
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	7	0.51
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	7	0.51
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	8	0.49
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	8	0.49
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	8	0.49
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	18	0.49
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	18	0.49
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	18	0.49
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	13	0.47
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	13	0.47
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	13	0.47
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	1	0.46
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	1	0.46
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	1	0.46
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	9	0.46
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	9	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	9	0.46
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	3	0.45
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	3	0.45
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	3	0.45
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	5	0.45
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	5	0.45
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	5	0.45
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	15	0.45
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	15	0.45
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	15	0.45
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	20	0.45
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	20	0.45
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	20	0.45
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	10	0.44
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	10	0.44
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	10	0.44
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	14	0.44
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	14	0.44
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	14	0.44
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	2	0.43
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	2	0.43
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	2	0.43
(1,202)	1:12:A:SER:HA	2:23:B:VAL:H	13	0.41
(1,83)	1:3:A:VAL:HG21	2:47:B:TYR:HE1	19	0.39
(1,83)	1:3:A:VAL:HG22	2:47:B:TYR:HE1	19	0.39
(1,83)	1:3:A:VAL:HG23	2:47:B:TYR:HE1	19	0.39
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	12	0.33
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	18	0.33
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	6	0.32
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	4	0.31
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	14	0.31
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	16	0.31
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	17	0.31
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	19	0.31
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	1	0.3
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	2	0.3
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	3	0.3
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	9	0.3
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	15	0.3
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	8	0.29
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	11	0.29
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	13	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	20	0.29
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	13	0.28
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	14	0.28
(1,202)	1:12:A:SER:HA	2:23:B:VAL:H	7	0.28
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	10	0.28
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	1	0.28
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	3	0.28
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	6	0.28
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	8	0.28
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	9	0.28
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	10	0.28
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	11	0.28
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	12	0.28
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	13	0.28
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	15	0.28
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	17	0.28
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	19	0.28
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	20	0.28
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	1	0.27
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	3	0.27
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	7	0.27
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	9	0.27
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	14	0.27
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	18	0.27
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	19	0.27
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	20	0.27
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	19	0.27
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	7	0.27
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	9	0.27
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	18	0.27
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	1	0.27
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	3	0.27
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	4	0.27
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	5	0.27
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	6	0.27
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	7	0.27
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	8	0.27
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	9	0.27
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	11	0.27
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	12	0.27
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	18	0.27
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	2	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	4	0.27
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	5	0.27
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	7	0.27
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	14	0.27
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	16	0.27
(1,42)	1:2:A:ILE:HG12	2:32:B:LEU:HB3	18	0.27
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	2	0.26
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	5	0.26
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	6	0.26
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	8	0.26
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	10	0.26
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	11	0.26
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	12	0.26
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	15	0.26
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	16	0.26
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	17	0.26
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	9	0.26
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	11	0.26
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	17	0.26
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	2	0.26
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	3	0.26
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	4	0.26
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	5	0.26
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	6	0.26
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	10	0.26
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	11	0.26
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	12	0.26
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	13	0.26
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	14	0.26
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	15	0.26
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	16	0.26
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	17	0.26
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	20	0.26
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	1	0.26
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	2	0.26
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	4	0.26
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	5	0.26
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	8	0.26
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	15	0.26
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	16	0.26
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	17	0.26
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	20	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	2	0.26
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	10	0.26
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	13	0.26
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	15	0.26
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	16	0.26
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	17	0.26
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	19	0.26
(1,237)	1:13:A:LEU:HA	1:17:A:GLU:HG2	20	0.26
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	5	0.26
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	20	0.25
(1,778)	2:37:B:TYR:HD1	2:37:B:TYR:H	4	0.25
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	1	0.25
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	8	0.25
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	19	0.25
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	20	0.25
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	1	0.25
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	7	0.25
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	8	0.25
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	9	0.25
(1,407)	1:18:A:ASN:HB3	1:19:A:TYR:H	18	0.25
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	3	0.25
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	6	0.25
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	10	0.25
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	11	0.25
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	12	0.25
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	13	0.25
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	14	0.25
(1,384)	1:17:A:GLU:HB3	1:19:A:TYR:H	19	0.25
(1,131)	1:7:A:CYS:HA	2:26:B:HIS:HA	7	0.25
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	16	0.24
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	20	0.24
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	1	0.24
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	15	0.24
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	19	0.24
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	3	0.24
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	6	0.24
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	10	0.24
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	15	0.24
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	18	0.24
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	12	0.23
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	3	0.23
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	10	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	14	0.23
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	17	0.23
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	19	0.23
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	16	0.23
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	2	0.23
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	16	0.23
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	19	0.23
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	20	0.23
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	2	0.23
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	9	0.23
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	12	0.23
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	17	0.23
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	19	0.23
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	5	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	1	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	2	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	3	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	4	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	5	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	6	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	7	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	8	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	9	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	10	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	11	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	12	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	13	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	14	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	15	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	16	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	17	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	19	0.23
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	20	0.23
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	5	0.23
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	10	0.22
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	12	0.22
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	16	0.22
(1,916)	2:49:B:LYS:HB3	2:50:B:PRO:HD3	6	0.22
(1,916)	2:49:B:LYS:HB3	2:50:B:PRO:HD3	7	0.22
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	4	0.22
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	9	0.22
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	11	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	12	0.22
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	13	0.22
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	16	0.22
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	18	0.22
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	2	0.22
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	17	0.22
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	20	0.22
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	1	0.22
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	3	0.22
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	5	0.22
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	7	0.22
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	8	0.22
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	9	0.22
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	12	0.22
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	13	0.22
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	15	0.22
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	17	0.22
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	18	0.22
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	1	0.22
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	13	0.22
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	14	0.22
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	15	0.22
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	20	0.22
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	2	0.22
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	13	0.22
(1,453)	1:20:A:CYS:HB3	1:20:A:CYS:H	18	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	1	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	2	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	3	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	4	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	6	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	7	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	8	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	10	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	11	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	12	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	13	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	14	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	15	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	16	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	17	0.22
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	19	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	20	0.22
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	2	0.22
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	3	0.22
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	6	0.22
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	9	0.22
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	12	0.22
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	13	0.22
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	14	0.22
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	20	0.22
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	6	0.21
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	7	0.21
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	15	0.21
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	17	0.21
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	1	0.21
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	2	0.21
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	4	0.21
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	6	0.21
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	7	0.21
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	8	0.21
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	10	0.21
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	13	0.21
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	15	0.21
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	17	0.21
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	19	0.21
(1,916)	2:49:B:LYS:HB3	2:50:B:PRO:HD3	8	0.21
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	11	0.21
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	15	0.21
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	5	0.21
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	7	0.21
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	8	0.21
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	8	0.21
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	4	0.21
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	6	0.21
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	10	0.21
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	11	0.21
(1,802)	2:38:B:LEU:HG	2:38:B:LEU:H	14	0.21
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	3	0.21
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	5	0.21
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	6	0.21
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	7	0.21
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	8	0.21
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	10	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	16	0.21
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	18	0.21
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	4	0.21
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	7	0.21
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	12	0.21
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	14	0.21
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	9	0.21
(1,338)	1:16:A:LEU:HA	1:18:A:ASN:H	18	0.21
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	1	0.21
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	4	0.21
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	5	0.21
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	7	0.21
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	8	0.21
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	10	0.21
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	11	0.21
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	15	0.21
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	16	0.21
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	17	0.21
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	18	0.21
(1,321)	1:15:A:GLN:HA	1:19:A:TYR:HE2	19	0.21
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	1	0.21
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	4	0.21
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	5	0.21
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	7	0.21
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	8	0.21
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	10	0.21
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	11	0.21
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	14	0.21
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	15	0.21
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	16	0.21
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	19	0.21
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	2	0.2
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	4	0.2
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	5	0.2
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	8	0.2
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	13	0.2
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	3	0.2
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	5	0.2
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	9	0.2
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	11	0.2
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	14	0.2
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	18	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,922)	2:50:B:PRO:HD3	2:50:B:PRO:HB2	20	0.2
(1,916)	2:49:B:LYS:HB3	2:50:B:PRO:HD3	15	0.2
(1,916)	2:49:B:LYS:HB3	2:50:B:PRO:HD3	19	0.2
(1,876)	2:43:B:ARG:HB2	2:43:B:ARG:HE	14	0.2
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	5	0.2
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	10	0.2
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	14	0.2
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	17	0.2
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	19	0.2
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	2	0.2
(1,843)	2:40:B:CYS:HB3	2:45:B:PHE:HA	6	0.2
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	9	0.2
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	13	0.2
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	4	0.2
(1,766)	2:36:B:LEU:H	2:45:B:PHE:HZ	11	0.2
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	7	0.2
(1,623)	2:29:B:GLY:HA3	2:32:B:LEU:HB3	16	0.2
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	2	0.2
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	20	0.2
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	2	0.2
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	3	0.2
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	6	0.2
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	9	0.2
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	12	0.2
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	13	0.2
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	17	0.2
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	18	0.2
(1,260)	1:14:A:TYR:HB3	1:14:A:TYR:HD2	20	0.2
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	1	0.19
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	19	0.19
(1,916)	2:49:B:LYS:HB3	2:50:B:PRO:HD3	17	0.19
(1,876)	2:43:B:ARG:HB2	2:43:B:ARG:HE	1	0.19
(1,876)	2:43:B:ARG:HB2	2:43:B:ARG:HE	4	0.19
(1,876)	2:43:B:ARG:HB2	2:43:B:ARG:HE	10	0.19
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	1	0.19
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	4	0.19
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	8	0.19
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	9	0.19
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	12	0.19
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	16	0.19
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	5	0.19
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	12	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	15	0.19
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	18	0.19
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	18	0.19
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	16	0.19
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	2	0.19
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	6	0.19
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	10	0.19
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	12	0.19
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	17	0.19
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	20	0.19
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	6	0.19
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	9	0.19
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	12	0.19
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	13	0.19
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	17	0.19
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	18	0.19
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	3	0.18
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	14	0.18
(1,916)	2:49:B:LYS:HB3	2:50:B:PRO:HD3	10	0.18
(1,876)	2:43:B:ARG:HB2	2:43:B:ARG:HE	3	0.18
(1,876)	2:43:B:ARG:HB2	2:43:B:ARG:HE	20	0.18
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	3	0.18
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	6	0.18
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	7	0.18
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	13	0.18
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	20	0.18
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	3	0.18
(1,713)	2:34:B:GLU:HA	2:34:B:GLU:HG3	12	0.18
(1,713)	2:34:B:GLU:HA	2:34:B:GLU:HG3	13	0.18
(1,713)	2:34:B:GLU:HA	2:34:B:GLU:HG3	14	0.18
(1,713)	2:34:B:GLU:HA	2:34:B:GLU:HG3	16	0.18
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	15	0.18
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	3	0.18
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	5	0.18
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	6	0.18
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	8	0.18
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	9	0.18
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	11	0.18
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	12	0.18
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	13	0.18
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	14	0.18
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	17	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	19	0.18
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	5	0.18
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	6	0.18
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	9	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	1	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	2	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	3	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	4	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	5	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	6	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	7	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	8	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	9	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	10	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	11	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	12	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	13	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	14	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	15	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	16	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	17	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	18	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	19	0.18
(1,409)	1:18:A:ASN:HA	1:19:A:TYR:H	20	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	1	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	2	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	3	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	4	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	5	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	6	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	7	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	8	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	9	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	10	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	11	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	12	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	13	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	14	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	15	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	17	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	18	0.18
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	19	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,399)	1:18:A:ASN:HB3	1:18:A:ASN:H	20	0.18
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	1	0.18
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	3	0.18
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	4	0.18
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	5	0.18
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	7	0.18
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	8	0.18
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	9	0.18
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	11	0.18
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	13	0.18
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	14	0.18
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	15	0.18
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	16	0.18
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	18	0.18
(1,379)	1:17:A:GLU:HB3	1:18:A:ASN:H	19	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	1	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	2	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	3	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	4	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	5	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	6	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	7	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	8	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	9	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	10	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	11	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	12	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	13	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	14	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	15	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	16	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	17	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	18	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	19	0.18
(1,378)	1:17:A:GLU:HG2	1:18:A:ASN:H	20	0.18
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	3	0.18
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	9	0.17
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	18	0.17
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	2	0.17
(1,852)	2:41:B:GLY:HA2	2:44:B:GLY:H	18	0.17
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	1	0.17
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	14	0.17
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	2	0.17
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	5	0.17
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	7	0.17
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	8	0.17
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	12	0.17
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	13	0.17
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	16	0.17
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	19	0.17
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	20	0.17
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	1	0.17
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	2	0.17
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	4	0.17
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	7	0.17
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	10	0.17
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	15	0.17
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	16	0.17
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	18	0.17
(1,455)	1:20:A:CYS:HB2	1:21:A:ASN:H	20	0.17
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	7	0.17
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	8	0.17
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	11	0.17
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	12	0.17
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	15	0.17
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	1	0.17
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	4	0.17
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	5	0.17
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	6	0.17
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	7	0.17
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	8	0.17
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	10	0.17
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	15	0.17
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	18	0.17
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	20	0.17
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	1	0.17
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	8	0.17
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	14	0.17
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	16	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	1	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	2	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	3	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	5	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	6	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	7	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	8	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	9	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	10	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	11	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	12	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	13	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	14	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	15	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	16	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	17	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	18	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	19	0.17
(1,262)	1:14:A:TYR:HD2	1:14:A:TYR:HA	20	0.17
(1,924)	2:50:B:PRO:HA	2:50:B:PRO:HG3	11	0.16
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	4	0.16
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	11	0.16
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	12	0.16
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	13	0.16
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	14	0.16
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	16	0.16
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	1	0.16
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	4	0.16
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	6	0.16
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	9	0.16
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	11	0.16
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	14	0.16
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	17	0.16
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	2	0.16
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	13	0.16
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	16	0.16
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	17	0.16
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	18	0.16
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	19	0.16
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	2	0.16
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	3	0.16
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	9	0.16
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	11	0.16
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	12	0.16
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	13	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	14	0.16
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	16	0.16
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	17	0.16
(1,304)	1:15:A:GLN:HG2	1:15:A:GLN:HE22	19	0.16
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	7	0.16
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	10	0.16
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	15	0.16
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	16	0.16
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	2	0.16
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	16	0.16
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	17	0.16
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	20	0.16
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	16	0.16
(1,921)	2:50:B:PRO:HA	2:50:B:PRO:HD3	9	0.15
(1,921)	2:50:B:PRO:HA	2:50:B:PRO:HD3	10	0.15
(1,921)	2:50:B:PRO:HA	2:50:B:PRO:HD3	17	0.15
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	7	0.15
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	8	0.15
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	13	0.15
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	16	0.15
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	4	0.15
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	10	0.15
(1,716)	2:34:B:GLU:HG3	2:34:B:GLU:H	7	0.15
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	1	0.15
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	6	0.15
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	10	0.15
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	11	0.15
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	3	0.15
(1,478)	1:20:A:CYS:HB2	2:45:B:PHE:HA	10	0.15
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	3	0.15
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	20	0.15
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	4	0.15
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	14	0.15
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	17	0.15
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	1	0.15
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	3	0.15
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	7	0.15
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	8	0.15
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	9	0.15
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	15	0.15
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	16	0.15
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	18	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	1	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	2	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	3	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	4	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	5	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	6	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	7	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	8	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	9	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	10	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	11	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	12	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	13	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	14	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	15	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	16	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	17	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	18	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	19	0.15
(1,375)	1:17:A:GLU:HB3	1:17:A:GLU:H	20	0.15
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	4	0.15
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	5	0.15
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	11	0.15
(1,276)	1:14:A:TYR:HE2	1:15:A:GLN:H	19	0.15
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	2	0.15
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	12	0.15
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	18	0.15
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	20	0.15
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	1	0.15
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	4	0.15
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	5	0.15
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	7	0.15
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	8	0.15
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	10	0.15
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	11	0.15
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	14	0.15
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	15	0.15
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	19	0.15
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	1	0.15
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	3	0.15
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	4	0.15
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	6	0.15
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	7	0.15
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	8	0.15
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	9	0.15
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	10	0.15
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	11	0.15
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	12	0.15
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	13	0.15
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	14	0.15
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	15	0.15
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	18	0.15
(1,215)	1:13:A:LEU:HB2	1:14:A:TYR:H	19	0.15
(1,202)	1:12:A:SER:HA	2:23:B:VAL:H	9	0.15
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	1	0.15
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	5	0.15
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	7	0.15
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	8	0.15
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	11	0.15
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	15	0.15
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	19	0.15
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	5	0.15
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	7	0.15
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	8	0.15
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	16	0.15
(1,921)	2:50:B:PRO:HA	2:50:B:PRO:HD3	15	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	1	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	2	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	3	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	4	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	5	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	6	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	7	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	8	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	9	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	13	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	14	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	15	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	16	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	17	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	18	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	19	0.14
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	20	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	2	0.14
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	6	0.14
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	9	0.14
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	12	0.14
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	17	0.14
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	18	0.14
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	19	0.14
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	6	0.14
(1,808)	2:38:B:LEU:HB2	2:39:B:VAL:H	10	0.14
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	6	0.14
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	11	0.14
(1,713)	2:34:B:GLU:HA	2:34:B:GLU:HG3	3	0.14
(1,713)	2:34:B:GLU:HA	2:34:B:GLU:HG3	4	0.14
(1,713)	2:34:B:GLU:HA	2:34:B:GLU:HG3	5	0.14
(1,713)	2:34:B:GLU:HA	2:34:B:GLU:HG3	9	0.14
(1,713)	2:34:B:GLU:HA	2:34:B:GLU:HG3	15	0.14
(1,713)	2:34:B:GLU:HA	2:34:B:GLU:HG3	17	0.14
(1,713)	2:34:B:GLU:HA	2:34:B:GLU:HG3	18	0.14
(1,708)	2:33:B:VAL:HB	2:45:B:PHE:HE1	11	0.14
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	3	0.14
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	8	0.14
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	9	0.14
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	15	0.14
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	18	0.14
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	19	0.14
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	20	0.14
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	16	0.14
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	15	0.14
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	18	0.14
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	1	0.14
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	4	0.14
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	10	0.14
(1,454)	1:20:A:CYS:HB3	1:21:A:ASN:H	14	0.14
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	1	0.14
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	2	0.14
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	10	0.14
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	13	0.14
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	12	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	1	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	2	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	3	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	5	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	6	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	7	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	8	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	9	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	10	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	11	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	12	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	13	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	14	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	15	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	16	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	17	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	18	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	19	0.14
(1,430)	1:19:A:TYR:HB2	1:19:A:TYR:HD1	20	0.14
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	2	0.14
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	4	0.14
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	5	0.14
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	6	0.14
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	10	0.14
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	11	0.14
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	12	0.14
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	13	0.14
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	14	0.14
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	17	0.14
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	19	0.14
(1,386)	1:17:A:GLU:HB3	1:20:A:CYS:H	20	0.14
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	2	0.14
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	6	0.14
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	12	0.14
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	17	0.14
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	20	0.14
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	3	0.14
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	6	0.14
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	9	0.14
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	17	0.14
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	2	0.14
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	12	0.14
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	13	0.14
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	17	0.14
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	4	0.14
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	10	0.14
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	14	0.14
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	18	0.14
(1,187)	1:12:A:SER:HB2	1:13:A:LEU:H	5	0.14
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	1	0.14
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	2	0.14
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	3	0.14
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	4	0.14
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	9	0.14
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	12	0.14
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	13	0.14
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	14	0.14
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	15	0.14
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	17	0.14
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	18	0.14
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	19	0.14
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	20	0.14
(1,921)	2:50:B:PRO:HA	2:50:B:PRO:HD3	6	0.13
(1,921)	2:50:B:PRO:HA	2:50:B:PRO:HD3	7	0.13
(1,921)	2:50:B:PRO:HA	2:50:B:PRO:HD3	8	0.13
(1,918)	2:49:B:LYS:HB2	2:50:B:PRO:HA	12	0.13
(1,916)	2:49:B:LYS:HB3	2:50:B:PRO:HD3	4	0.13
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	10	0.13
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	11	0.13
(1,892)	2:45:B:PHE:HB2	2:45:B:PHE:HD2	12	0.13
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	5	0.13
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	11	0.13
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	15	0.13
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	2	0.13
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	4	0.13
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	5	0.13
(1,694)	2:33:B:VAL:H	2:34:B:GLU:H	17	0.13
(1,496)	1:21:A:ASN:HA	2:46:B:23F:H	20	0.13
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	2	0.13
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	5	0.13
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	7	0.13
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	8	0.13
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	9	0.13
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	11	0.13
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	12	0.13
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	13	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	16	0.13
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	19	0.13
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	3	0.13
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	12	0.13
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	16	0.13
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	18	0.13
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	6	0.13
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	11	0.13
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	1	0.13
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	4	0.13
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	8	0.13
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	10	0.13
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	11	0.13
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	12	0.13
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	14	0.13
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	20	0.13
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	3	0.13
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	9	0.13
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	13	0.13
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	18	0.13
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	1	0.13
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	4	0.13
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	7	0.13
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	8	0.13
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	10	0.13
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	11	0.13
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	13	0.13
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	14	0.13
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	15	0.13
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	16	0.13
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	19	0.13
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	3	0.13
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	6	0.13
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	9	0.13
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	18	0.13
(1,223)	1:13:A:LEU:HG	1:14:A:TYR:HD1	20	0.13
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	2	0.13
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	9	0.13
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	12	0.13
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	13	0.13
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	17	0.13
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	6	0.13
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	10	0.13
(1,49)	1:2:A:ILE:HG12	2:36:B:LEU:HG	11	0.13
(1,921)	2:50:B:PRO:HA	2:50:B:PRO:HD3	3	0.12
(1,921)	2:50:B:PRO:HA	2:50:B:PRO:HD3	4	0.12
(1,921)	2:50:B:PRO:HA	2:50:B:PRO:HD3	11	0.12
(1,921)	2:50:B:PRO:HA	2:50:B:PRO:HD3	19	0.12
(1,917)	2:49:B:LYS:HB3	2:50:B:PRO:HA	2	0.12
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	1	0.12
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	3	0.12
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	7	0.12
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	9	0.12
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	18	0.12
(1,708)	2:33:B:VAL:HB	2:45:B:PHE:HE1	12	0.12
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	5	0.12
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	7	0.12
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	12	0.12
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	20	0.12
(1,496)	1:21:A:ASN:HA	2:46:B:23F:H	18	0.12
(1,494)	1:21:A:ASN:HB3	2:45:B:PHE:HA	3	0.12
(1,488)	1:21:A:ASN:HB2	2:43:B:ARG:HB3	4	0.12
(1,488)	1:21:A:ASN:HB2	2:43:B:ARG:HB3	20	0.12
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	6	0.12
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	17	0.12
(1,476)	1:20:A:CYS:HA	2:45:B:PHE:HB2	19	0.12
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	7	0.12
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	8	0.12
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	9	0.12
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	11	0.12
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	19	0.12
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	20	0.12
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	1	0.12
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	2	0.12
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	3	0.12
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	4	0.12
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	5	0.12
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	10	0.12
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	13	0.12
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	14	0.12
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	17	0.12
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	1	0.12
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	6	0.12
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	10	0.12
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	11	0.12
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	12	0.12
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	16	0.12
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	17	0.12
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	19	0.12
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	20	0.12
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	2	0.12
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	3	0.12
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	5	0.12
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	6	0.12
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	7	0.12
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	9	0.12
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	13	0.12
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	15	0.12
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	16	0.12
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	17	0.12
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	19	0.12
(1,224)	1:13:A:LEU:HB3	1:14:A:TYR:HD2	5	0.12
(1,193)	1:12:A:SER:HA	1:14:A:TYR:H	6	0.12
(1,187)	1:12:A:SER:HB2	1:13:A:LEU:H	11	0.12
(1,187)	1:12:A:SER:HB2	1:13:A:LEU:H	16	0.12
(1,113)	1:5:A:GLN:HA	1:9:A:SER:HB3	16	0.12
(1,918)	2:49:B:LYS:HB2	2:50:B:PRO:HA	16	0.11
(1,917)	2:49:B:LYS:HB3	2:50:B:PRO:HA	4	0.11
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	1	0.11
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	4	0.11
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	5	0.11
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	12	0.11
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	14	0.11
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	15	0.11
(1,711)	2:33:B:VAL:HG21	2:47:B:TYR:HE1	16	0.11
(1,711)	2:33:B:VAL:HG22	2:47:B:TYR:HE1	16	0.11
(1,711)	2:33:B:VAL:HG23	2:47:B:TYR:HE1	16	0.11
(1,708)	2:33:B:VAL:HB	2:45:B:PHE:HE1	17	0.11
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	1	0.11
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	2	0.11
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	3	0.11
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	6	0.11
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	8	0.11
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	13	0.11
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	14	0.11
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	15	0.11
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	18	0.11
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	19	0.11
(1,496)	1:21:A:ASN:HA	2:46:B:23F:H	15	0.11
(1,494)	1:21:A:ASN:HB3	2:45:B:PHE:HA	6	0.11
(1,494)	1:21:A:ASN:HB3	2:45:B:PHE:HA	9	0.11
(1,494)	1:21:A:ASN:HB3	2:45:B:PHE:HA	10	0.11
(1,488)	1:21:A:ASN:HB2	2:43:B:ARG:HB3	10	0.11
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	20	0.11
(1,476)	1:20:A:CYS:HA	2:45:B:PHE:HB2	12	0.11
(1,476)	1:20:A:CYS:HA	2:45:B:PHE:HB2	15	0.11
(1,476)	1:20:A:CYS:HA	2:45:B:PHE:HB2	17	0.11
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	5	0.11
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	6	0.11
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	7	0.11
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	8	0.11
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	9	0.11
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	15	0.11
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	16	0.11
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	18	0.11
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	19	0.11
(1,433)	1:19:A:TYR:HB2	1:20:A:CYS:H	20	0.11
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	3	0.11
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	4	0.11
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	5	0.11
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	7	0.11
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	8	0.11
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	9	0.11
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	13	0.11
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	14	0.11
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	15	0.11
(1,425)	1:19:A:TYR:HD1	1:19:A:TYR:H	18	0.11
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	6	0.11
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	11	0.11
(1,413)	1:18:A:ASN:HB2	1:19:A:TYR:HD1	18	0.11
(1,398)	1:17:A:GLU:HG2	2:40:B:CYS:HA	9	0.11
(1,387)	1:17:A:GLU:HA	1:20:A:CYS:H	1	0.11
(1,387)	1:17:A:GLU:HA	1:20:A:CYS:H	3	0.11
(1,240)	1:13:A:LEU:HG	1:17:A:GLU:HG2	9	0.11
(1,240)	1:13:A:LEU:HG	1:17:A:GLU:HG2	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	14	0.11
(1,187)	1:12:A:SER:HB2	1:13:A:LEU:H	4	0.11
(1,187)	1:12:A:SER:HB2	1:13:A:LEU:H	7	0.11
(1,187)	1:12:A:SER:HB2	1:13:A:LEU:H	10	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	1	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	2	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	3	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	4	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	6	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	7	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	9	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	10	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	11	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	12	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	14	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	15	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	16	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	17	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	18	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	19	0.11
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	20	0.11
(1,113)	1:5:A:GLN:HA	1:9:A:SER:HB3	4	0.11
(1,113)	1:5:A:GLN:HA	1:9:A:SER:HB3	13	0.11
(1,113)	1:5:A:GLN:HA	1:9:A:SER:HB3	20	0.11
(1,103)	1:5:A:GLN:HG3	1:5:A:GLN:HE21	13	0.11
(1,881)	2:43:B:ARG:HG2	2:43:B:ARG:H	10	0.1
(1,881)	2:43:B:ARG:HG3	2:43:B:ARG:H	10	0.1
(1,880)	2:43:B:ARG:HD3	2:43:B:ARG:H	10	0.1
(1,838)	2:40:B:CYS:HB3	2:43:B:ARG:HE	3	0.1
(1,836)	2:40:B:CYS:HB2	2:43:B:ARG:HB2	3	0.1
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	8	0.1
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	13	0.1
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	17	0.1
(1,755)	2:36:B:LEU:H	2:38:B:LEU:HB3	20	0.1
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	4	0.1
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	10	0.1
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	11	0.1
(1,569)	2:25:B:GLN:HB2	2:26:B:HIS:H	17	0.1
(1,564)	2:25:B:GLN:HG2	2:25:B:GLN:HE22	4	0.1
(1,496)	1:21:A:ASN:HA	2:46:B:23F:H	9	0.1
(1,496)	1:21:A:ASN:HA	2:46:B:23F:H	13	0.1
(1,494)	1:21:A:ASN:HB3	2:45:B:PHE:HA	5	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,494)	1:21:A:ASN:HB3	2:45:B:PHE:HA	7	0.1
(1,488)	1:21:A:ASN:HB2	2:43:B:ARG:HB3	1	0.1
(1,488)	1:21:A:ASN:HB2	2:43:B:ARG:HB3	3	0.1
(1,488)	1:21:A:ASN:HB2	2:43:B:ARG:HB3	15	0.1
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	1	0.1
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	4	0.1
(1,477)	1:20:A:CYS:HB3	2:45:B:PHE:HA	14	0.1
(1,476)	1:20:A:CYS:HA	2:45:B:PHE:HB2	1	0.1
(1,476)	1:20:A:CYS:HA	2:45:B:PHE:HB2	10	0.1
(1,476)	1:20:A:CYS:HA	2:45:B:PHE:HB2	13	0.1
(1,476)	1:20:A:CYS:HA	2:45:B:PHE:HB2	16	0.1
(1,467)	1:20:A:CYS:HB3	2:43:B:ARG:HE	9	0.1
(1,447)	1:19:A:TYR:HA	2:46:B:23F:HE1	15	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	1	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	2	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	3	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	4	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	5	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	7	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	8	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	9	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	10	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	12	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	13	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	14	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	15	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	17	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	18	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	19	0.1
(1,423)	1:19:A:TYR:HB3	1:19:A:TYR:H	20	0.1
(1,398)	1:17:A:GLU:HG2	2:40:B:CYS:HA	11	0.1
(1,387)	1:17:A:GLU:HA	1:20:A:CYS:H	4	0.1
(1,387)	1:17:A:GLU:HA	1:20:A:CYS:H	8	0.1
(1,387)	1:17:A:GLU:HA	1:20:A:CYS:H	11	0.1
(1,387)	1:17:A:GLU:HA	1:20:A:CYS:H	12	0.1
(1,387)	1:17:A:GLU:HA	1:20:A:CYS:H	14	0.1
(1,387)	1:17:A:GLU:HA	1:20:A:CYS:H	16	0.1
(1,387)	1:17:A:GLU:HA	1:20:A:CYS:H	17	0.1
(1,240)	1:13:A:LEU:HG	1:17:A:GLU:HG2	2	0.1
(1,240)	1:13:A:LEU:HG	1:17:A:GLU:HG2	6	0.1
(1,240)	1:13:A:LEU:HG	1:17:A:GLU:HG2	7	0.1
(1,240)	1:13:A:LEU:HG	1:17:A:GLU:HG2	12	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,240)	1:13:A:LEU:HG	1:17:A:GLU:HG2	17	0.1
(1,240)	1:13:A:LEU:HG	1:17:A:GLU:HG2	20	0.1
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	1	0.1
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	7	0.1
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	8	0.1
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	10	0.1
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	15	0.1
(1,225)	1:13:A:LEU:H	1:14:A:TYR:H	16	0.1
(1,187)	1:12:A:SER:HB2	1:13:A:LEU:H	8	0.1
(1,187)	1:12:A:SER:HB2	1:13:A:LEU:H	15	0.1
(1,187)	1:12:A:SER:HB2	1:13:A:LEU:H	19	0.1
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	5	0.1
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	8	0.1
(1,151)	1:9:A:SER:HB2	1:10:A:ILE:H	13	0.1
(1,113)	1:5:A:GLN:HA	1:9:A:SER:HB3	2	0.1
(1,113)	1:5:A:GLN:HA	1:9:A:SER:HB3	6	0.1
(1,113)	1:5:A:GLN:HA	1:9:A:SER:HB3	7	0.1
(1,113)	1:5:A:GLN:HA	1:9:A:SER:HB3	8	0.1
(1,113)	1:5:A:GLN:HA	1:9:A:SER:HB3	9	0.1
(1,113)	1:5:A:GLN:HA	1:9:A:SER:HB3	11	0.1
(1,113)	1:5:A:GLN:HA	1:9:A:SER:HB3	15	0.1
(1,113)	1:5:A:GLN:HA	1:9:A:SER:HB3	17	0.1
(1,113)	1:5:A:GLN:HA	1:9:A:SER:HB3	18	0.1
(1,103)	1:5:A:GLN:HG3	1:5:A:GLN:HE21	2	0.1
(1,103)	1:5:A:GLN:HG3	1:5:A:GLN:HE21	6	0.1
(1,103)	1:5:A:GLN:HG3	1:5:A:GLN:HE21	9	0.1
(1,103)	1:5:A:GLN:HG3	1:5:A:GLN:HE21	11	0.1
(1,103)	1:5:A:GLN:HG3	1:5:A:GLN:HE21	15	0.1
(1,103)	1:5:A:GLN:HG3	1:5:A:GLN:HE21	18	0.1
(1,103)	1:5:A:GLN:HG3	1:5:A:GLN:HE21	19	0.1

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

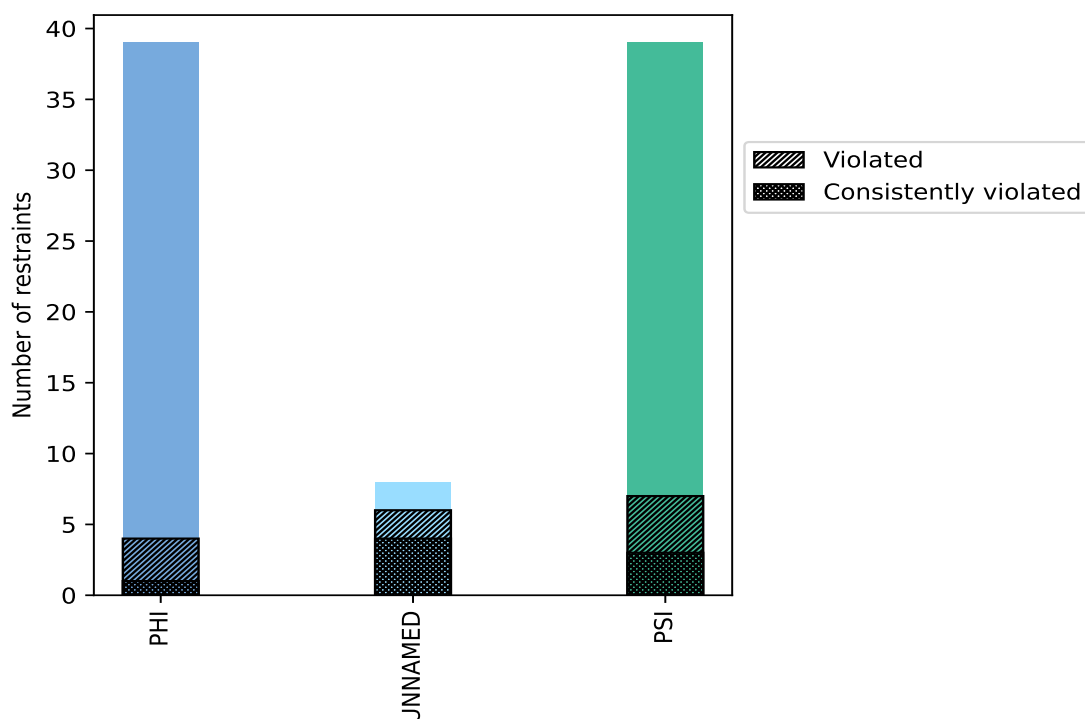
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PHI	39	45.3	4	10.3	4.7	1	2.6	1.2
UNNAMED	8	9.3	6	75.0	7.0	4	50.0	4.7
PSI	39	45.3	7	17.9	8.1	3	7.7	3.5
Total	86	100.0	17	19.8	19.8	8	9.3	9.3

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

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



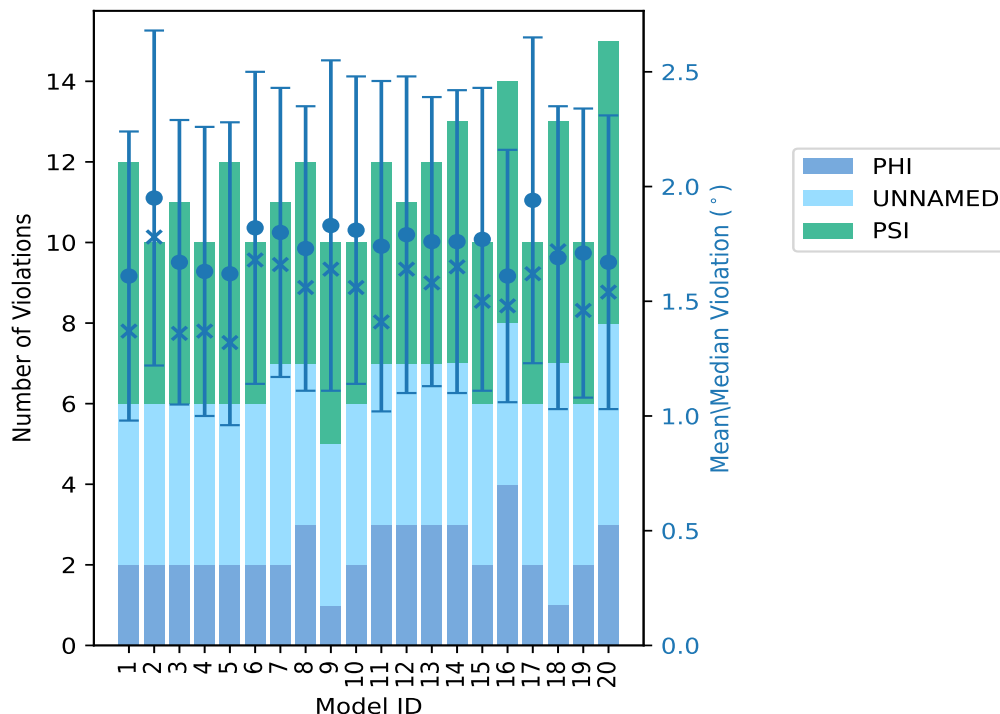
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations				Mean (°)	Max (°)	SD (°)	Median (°)
	PHI	UNNAMED	PSI	Total				
1	2	4	6	12	1.61	3.12	0.63	1.37
2	2	4	4	10	1.95	3.45	0.73	1.78
3	2	4	5	11	1.67	3.13	0.62	1.36
4	2	4	4	10	1.63	3.17	0.63	1.37
5	2	4	6	12	1.62	3.25	0.66	1.32
6	2	4	4	10	1.82	3.19	0.68	1.68
7	2	5	4	11	1.8	3.13	0.63	1.66
8	3	4	5	12	1.73	3.13	0.62	1.56
9	1	4	5	10	1.83	3.49	0.72	1.64
10	2	4	4	10	1.81	3.19	0.67	1.56
11	3	4	5	12	1.74	3.3	0.72	1.41
12	3	4	4	11	1.79	3.29	0.69	1.64
13	3	4	5	12	1.76	3.18	0.63	1.58
14	3	4	6	13	1.76	3.22	0.66	1.65
15	2	4	4	10	1.77	3.3	0.66	1.5
16	4	4	6	14	1.61	3.06	0.55	1.48
17	2	4	4	10	1.94	3.24	0.71	1.62
18	1	6	6	13	1.69	3.19	0.66	1.72
19	2	4	4	10	1.71	3.23	0.63	1.46
20	3	5	7	15	1.67	3.17	0.64	1.54

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



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

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

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

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

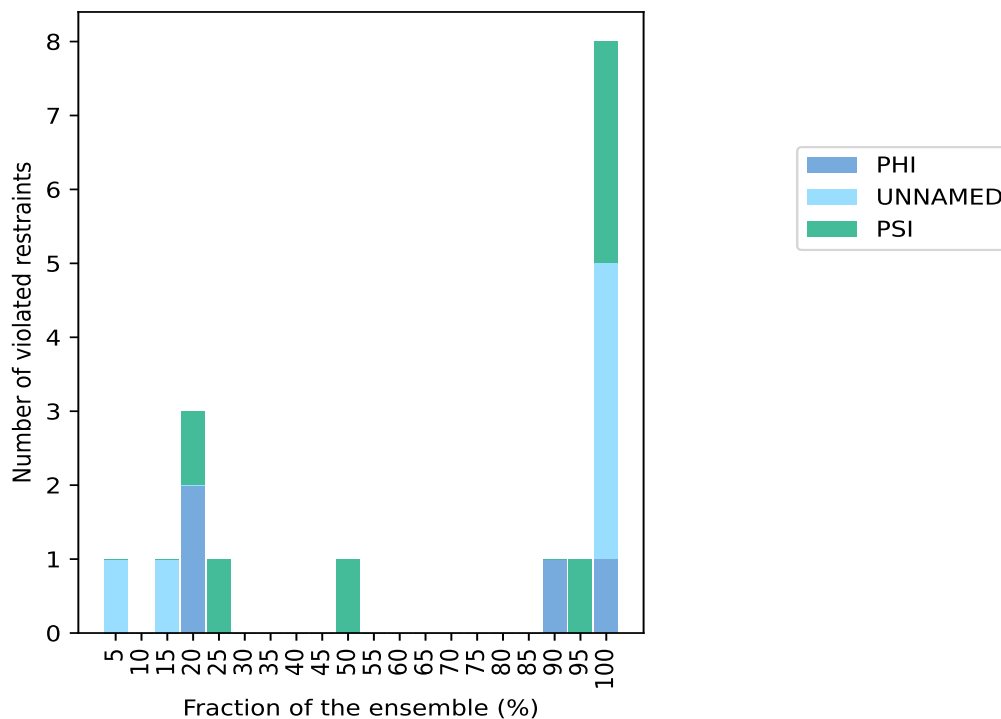
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Number of violated restraints				Fraction of the ensemble	
PHI	UNNAMED	PSI	Total	Count ¹	%
0	0	0	0	12	60.0
0	0	0	0	13	65.0
0	0	0	0	14	70.0
0	0	0	0	15	75.0
0	0	0	0	16	80.0
0	0	0	0	17	85.0
1	0	0	1	18	90.0
0	0	1	1	19	95.0
1	4	3	8	20	100.0

¹ Number of models with violations

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

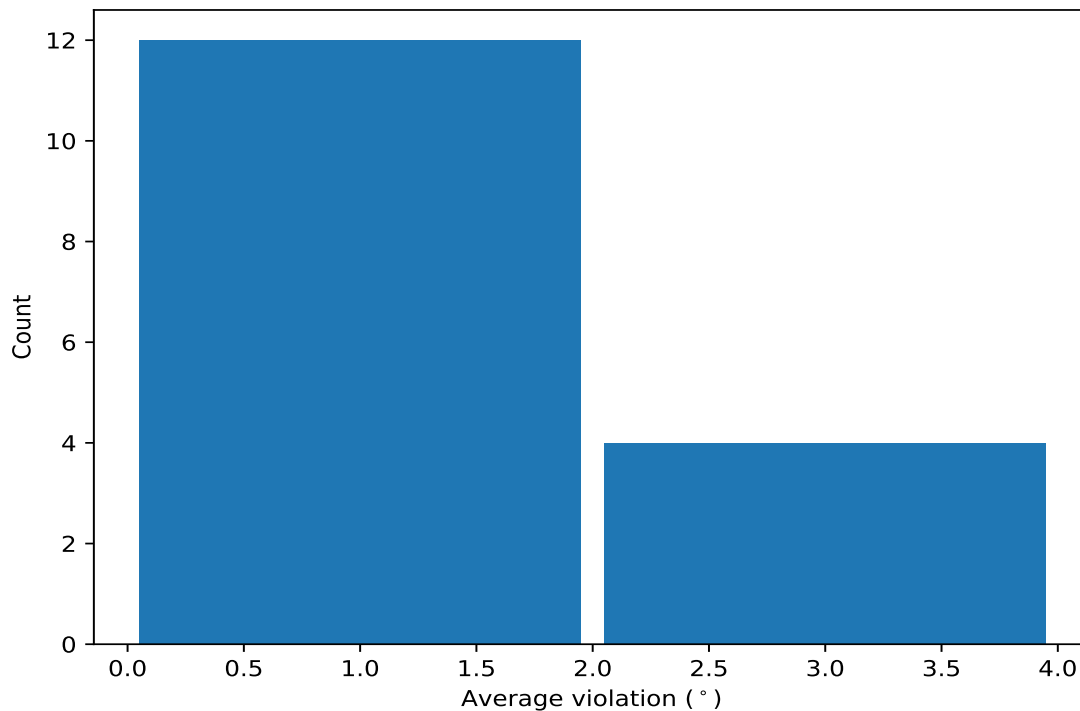


10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

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

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

in the ensemble



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

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

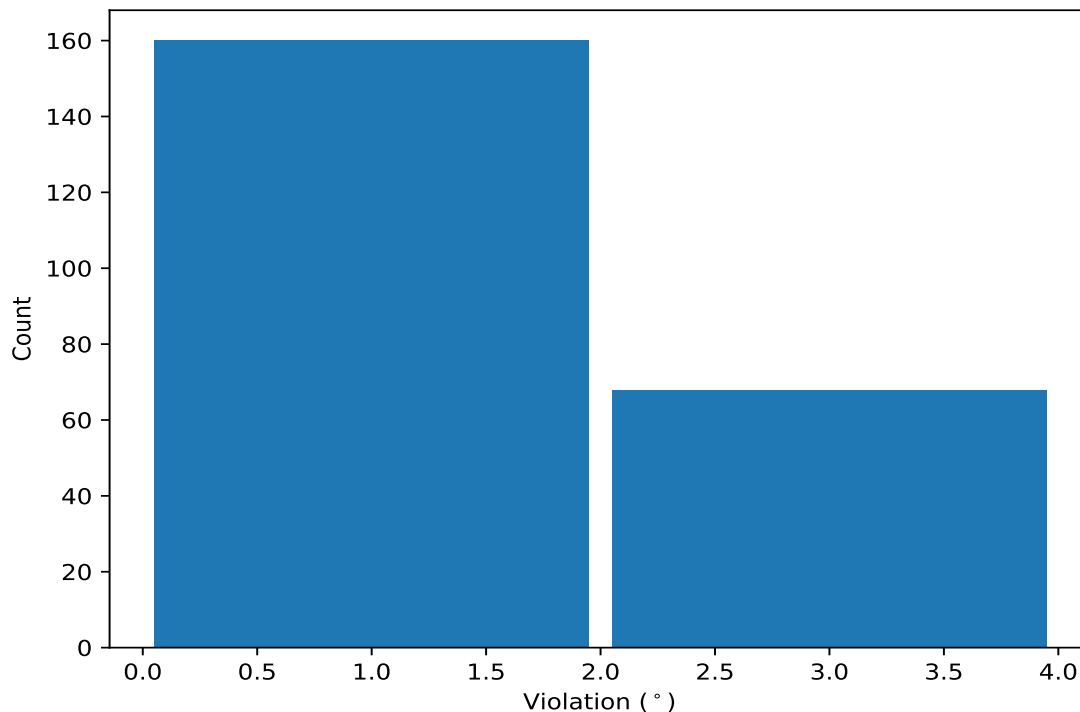
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	20	3.22	0.1	3.19
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	20	2.46	0.33	2.42
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	20	2.33	0.16	2.36
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	20	1.83	0.15	1.8
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	20	1.72	0.26	1.76
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	20	1.43	0.21	1.37
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	20	1.43	0.15	1.38
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	20	1.4	0.14	1.44
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	19	1.16	0.1	1.17
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	18	1.13	0.06	1.1
(1,12)	1:7:A:CYS:N	1:7:A:CYS:CA	1:7:A:CYS:C	1:8:A:THR:N	10	1.06	0.05	1.05
(1,20)	1:11:A:CYS:N	1:11:A:CYS:CA	1:11:A:CYS:C	1:12:A:SER:N	5	1.06	0.03	1.04
(1,53)	2:31:B:ASP:C	2:32:B:LEU:N	2:32:B:LEU:CA	2:32:B:LEU:C	4	2.19	0.04	2.2
(1,11)	1:6:A:CYS:C	1:7:A:CYS:N	1:7:A:CYS:CA	1:7:A:CYS:C	4	1.17	0.11	1.18
(1,74)	2:42:B:GLU:N	2:42:B:GLU:CA	2:42:B:GLU:C	2:43:B:ARG:N	4	1.06	0.05	1.06
(1,79)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	3	1.03	0.02	1.01

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

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

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

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	9	3.49
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	2	3.45
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	11	3.3
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	15	3.3
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	12	3.29
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	5	3.25
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	17	3.24
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	19	3.23
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	14	3.22
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	6	3.19
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	10	3.19
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	18	3.19
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	13	3.18
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	4	3.17

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	20	3.17
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	3	3.13
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	7	3.13
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	8	3.13
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	1	3.12
(1,70)	2:40:B:CYS:N	2:40:B:CYS:CA	2:40:B:CYS:C	2:41:B:GLY:N	16	3.06
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	17	2.99
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	11	2.96
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	2	2.88
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	20	2.78
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	14	2.67
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	6	2.66
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	18	2.63
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	10	2.6
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	12	2.57
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	15	2.49
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	17	2.49
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	8	2.46
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	6	2.45
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	2	2.44
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	9	2.44
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	10	2.44
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	9	2.43
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	13	2.43
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	7	2.42
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	8	2.42
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	5	2.41
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	13	2.39
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	3	2.39
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	1	2.33
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	20	2.33
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	7	2.31
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	18	2.3
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	19	2.29
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	1	2.28
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	7	2.26
(1,53)	2:31:B:ASP:C	2:32:B:LEU:N	2:32:B:LEU:CA	2:32:B:LEU:C	12	2.23
(1,53)	2:31:B:ASP:C	2:32:B:LEU:N	2:32:B:LEU:CA	2:32:B:LEU:C	14	2.23
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	3	2.22
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	4	2.22
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	14	2.21
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	12	2.2
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	17	2.18
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	15	2.18
(1,53)	2:31:B:ASP:C	2:32:B:LEU:N	2:32:B:LEU:CA	2:32:B:LEU:C	16	2.16
(1,53)	2:31:B:ASP:C	2:32:B:LEU:N	2:32:B:LEU:CA	2:32:B:LEU:C	13	2.15
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	16	2.14
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	11	2.13
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	19	2.13
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	5	2.12
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	11	2.07

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	5	2.01
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	2	2.0
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	4	2.0
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	12	1.96
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	16	1.96
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	14	1.95
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	20	1.95
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	13	1.91
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	18	1.89
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	14	1.89
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	20	1.87
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	8	1.85
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	2	1.83
(1,9)	1:5:A:GLN:C	1:6:A:CYS:N	1:6:A:CYS:CA	1:6:A:CYS:C	16	1.81
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	11	1.8
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	6	1.79
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	3	1.79
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	9	1.78
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	10	1.78
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	8	1.77
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	7	1.76
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	18	1.75
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	9	1.75
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	15	1.75
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	18	1.75
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	20	1.74
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	19	1.74
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	2	1.73
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	18	1.72
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	1	1.72
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	6	1.72
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	10	1.69
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	13	1.68
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	20	1.67
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	2	1.66
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	7	1.66
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	14	1.65
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	6	1.65
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	12	1.64
(1,46)	2:28:B:CYS:N	2:28:B:CYS:CA	2:28:B:CYS:C	2:29:B:GLY:N	17	1.64
(1,84)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	4	1.63
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	8	1.63
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	17	1.6
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	16	1.58
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	1	1.55
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	7	1.54
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	9	1.54
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	20	1.54
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	3	1.53
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	14	1.52
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	8	1.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	15	1.5
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	15	1.49
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	16	1.49
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	8	1.49
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	13	1.49
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	17	1.48
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	19	1.47
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	7	1.47
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	16	1.46
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	11	1.45
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	17	1.45
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	10	1.44
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	19	1.44
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	4	1.43
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	5	1.42
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	16	1.42
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	1	1.4
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	10	1.38
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	15	1.38
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	6	1.37
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	11	1.37
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	15	1.37
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	18	1.37
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	3	1.36
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	5	1.35
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	11	1.34
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	1	1.34
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	10	1.34
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	9	1.32
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	1	1.32
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	3	1.32
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	4	1.31
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	13	1.31
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	8	1.31
(1,11)	1:6:A:CYS:C	1:7:A:CYS:N	1:7:A:CYS:CA	1:7:A:CYS:C	20	1.31
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	9	1.3
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	19	1.3
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	5	1.29
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	13	1.29
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	3	1.29
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	19	1.26
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	12	1.25
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	2	1.24
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	6	1.23
(1,11)	1:6:A:CYS:C	1:7:A:CYS:N	1:7:A:CYS:CA	1:7:A:CYS:C	11	1.23
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	12	1.23
(1,83)	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	3	1.22
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	5	1.22
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	10	1.22
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	20	1.22
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	15	1.22

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	18	1.22
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	17	1.21
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	4	1.19
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	4	1.19
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	7	1.19
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	20	1.19
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	13	1.18
(1,12)	1:7:A:CYS:N	1:7:A:CYS:CA	1:7:A:CYS:C	1:8:A:THR:N	12	1.18
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	16	1.17
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	19	1.17
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	5	1.17
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	9	1.16
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	2	1.16
(1,74)	2:42:B:GLU:N	2:42:B:GLU:CA	2:42:B:GLU:C	2:43:B:ARG:N	20	1.14
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	12	1.14
(1,11)	1:6:A:CYS:C	1:7:A:CYS:N	1:7:A:CYS:CA	1:7:A:CYS:C	16	1.14
(1,6)	1:4:A:GLU:N	1:4:A:GLU:CA	1:4:A:GLU:C	1:5:A:GLN:N	14	1.14
(1,85)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:C	4	1.12
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	1	1.12
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	6	1.12
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	1	1.12
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	14	1.12
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	17	1.12
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	3	1.1
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	7	1.1
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	8	1.1
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	11	1.1
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	14	1.1
(1,20)	1:11:A:CYS:N	1:11:A:CYS:CA	1:11:A:CYS:C	1:12:A:SER:N	11	1.1
(1,12)	1:7:A:CYS:N	1:7:A:CYS:CA	1:7:A:CYS:C	1:8:A:THR:N	8	1.1
(1,12)	1:7:A:CYS:N	1:7:A:CYS:CA	1:7:A:CYS:C	1:8:A:THR:N	14	1.1
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	5	1.09
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	13	1.09
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	2	1.09
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	19	1.08
(1,20)	1:11:A:CYS:N	1:11:A:CYS:CA	1:11:A:CYS:C	1:12:A:SER:N	16	1.08
(1,74)	2:42:B:GLU:N	2:42:B:GLU:CA	2:42:B:GLU:C	2:43:B:ARG:N	18	1.07
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	4	1.07
(1,12)	1:7:A:CYS:N	1:7:A:CYS:CA	1:7:A:CYS:C	1:8:A:THR:N	16	1.07
(1,79)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	20	1.06
(1,81)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:HB	12	1.05
(1,74)	2:42:B:GLU:N	2:42:B:GLU:CA	2:42:B:GLU:C	2:43:B:ARG:N	3	1.05
(1,12)	1:7:A:CYS:N	1:7:A:CYS:CA	1:7:A:CYS:C	1:8:A:THR:N	9	1.05
(1,12)	1:7:A:CYS:N	1:7:A:CYS:CA	1:7:A:CYS:C	1:8:A:THR:N	13	1.05
(1,20)	1:11:A:CYS:N	1:11:A:CYS:CA	1:11:A:CYS:C	1:12:A:SER:N	5	1.04
(1,20)	1:11:A:CYS:N	1:11:A:CYS:CA	1:11:A:CYS:C	1:12:A:SER:N	20	1.04
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	10	1.04
(1,12)	1:7:A:CYS:N	1:7:A:CYS:CA	1:7:A:CYS:C	1:8:A:THR:N	18	1.04
(1,20)	1:11:A:CYS:N	1:11:A:CYS:CA	1:11:A:CYS:C	1:12:A:SER:N	14	1.03
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	6	1.03
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	11	1.03

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,12)	1:7:A:CYS:N	1:7:A:CYS:CA	1:7:A:CYS:C	1:8:A:THR:N	5	1.02
(1,86)	2:46:B:23F:HB	2:46:B:23F:CB	2:46:B:23F:CA	2:46:B:23F:N	18	1.01
(1,79)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	7	1.01
(1,79)	2:46:B:23F:CD1	2:46:B:23F:CG	2:46:B:23F:CB	2:46:B:23F:CA	18	1.01
(1,16)	1:9:A:SER:N	1:9:A:SER:CA	1:9:A:SER:C	1:10:A:ILE:N	16	1.01
(1,11)	1:6:A:CYS:C	1:7:A:CYS:N	1:7:A:CYS:CA	1:7:A:CYS:C	8	1.01
(1,74)	2:42:B:GLU:N	2:42:B:GLU:CA	2:42:B:GLU:C	2:43:B:ARG:N	1	1.0
(1,33)	1:17:A:GLU:C	1:18:A:ASN:N	1:18:A:ASN:CA	1:18:A:ASN:C	15	1.0
(1,12)	1:7:A:CYS:N	1:7:A:CYS:CA	1:7:A:CYS:C	1:8:A:THR:N	1	1.0
(1,12)	1:7:A:CYS:N	1:7:A:CYS:CA	1:7:A:CYS:C	1:8:A:THR:N	20	1.0