



Full wwPDB NMR Structure Validation Report ⓘ

Mar 1, 2026 – 03:19 AM UTC

PDB ID : 9R4W / pdb_00009r4w
BMRB ID : 34994
Title : Solution NMR structure of SNX9 SH3 in complex with EspF
Authors : Tossavainen, H.; Permi, P.
Deposited on : 2025-05-08

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

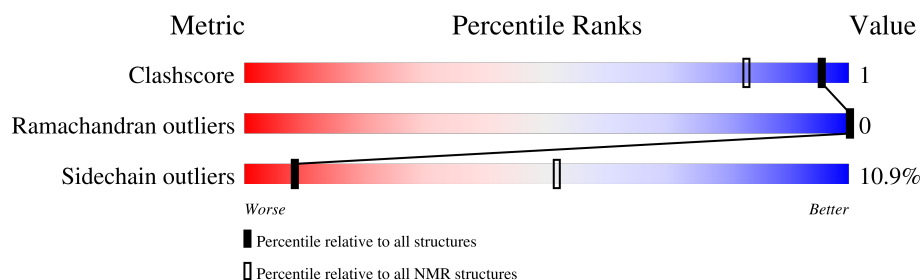
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 95%.

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



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

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

Mol	Chain	Length	Quality of chain
1	B	48	
2	A	67	

2 Ensemble composition and analysis

This entry contains 20 models. Model 13 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *fewest violations*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	B:117-B:127, A:2-A:60 (70)	0.29	13

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

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

The models can be grouped into 3 clusters and 3 single-model clusters were found.

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

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 1688 atoms, of which 836 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called LEE-encoded effector EspF.

Mol	Chain	Residues	Atoms					Trace
1	B	48	Total	C	H	N	O	0
			700	219	352	62	67	

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	114	GLY	-	expression tag	UNP A0A376PNR8

- Molecule 2 is a protein called Sorting nexin-9.

Mol	Chain	Residues	Atoms						Trace
2	A	67	Total	C	H	N	O	S	0
			988	312	484	86	104	2	

There are 3 discrepancies between the modelled and reference sequences:

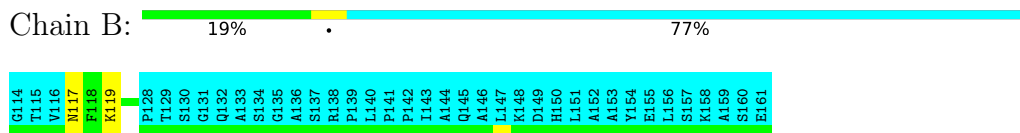
Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP Q9Y5X1
A	-1	SER	-	expression tag	UNP Q9Y5X1
A	0	HIS	-	expression tag	UNP Q9Y5X1

4 Residue-property plots [i](#)

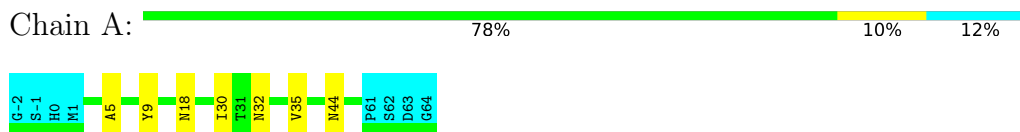
4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

- Molecule 1: LEE-encoded effector EspF



- Molecule 2: Sorting nexin-9

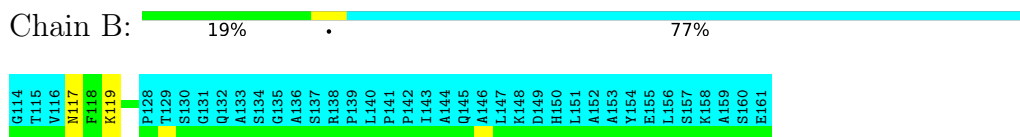


4.2 Scores per residue for each member of the ensemble

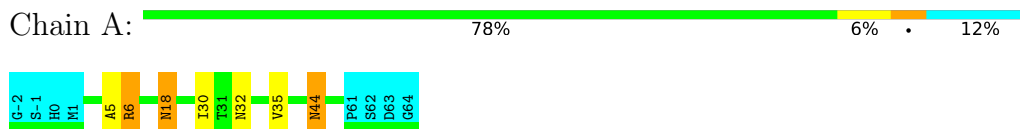
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: LEE-encoded effector EspF

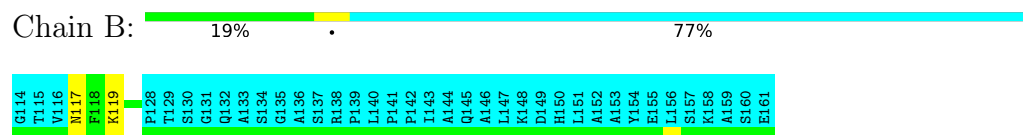


- Molecule 2: Sorting nexin-9

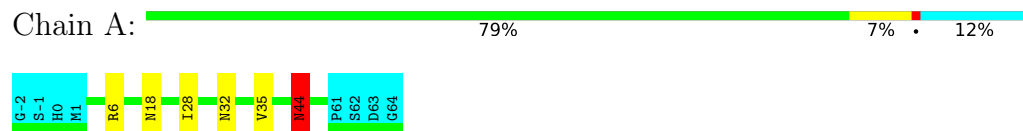


4.2.2 Score per residue for model 2

- Molecule 1: LEE-encoded effector EspF

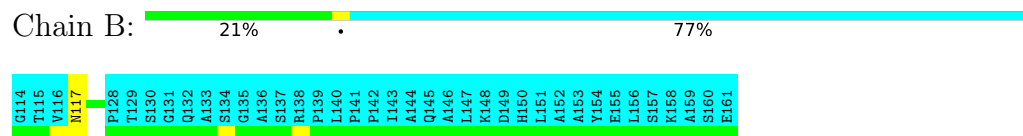


- Molecule 2: Sorting nexin-9

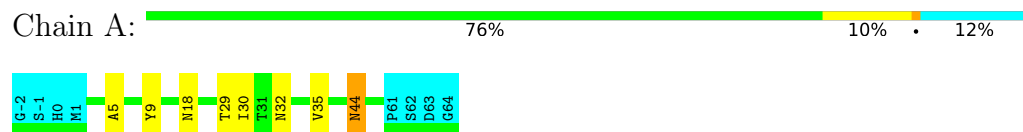


4.2.3 Score per residue for model 3

- Molecule 1: LEE-encoded effector EspF

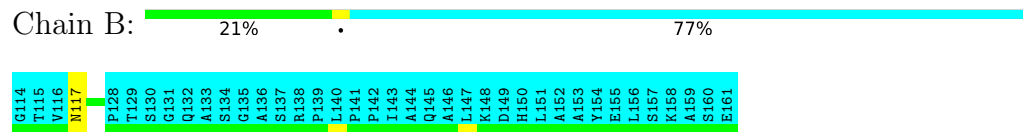


- Molecule 2: Sorting nexin-9

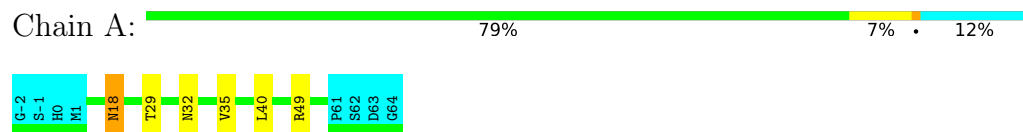


4.2.4 Score per residue for model 4

- Molecule 1: LEE-encoded effector EspF

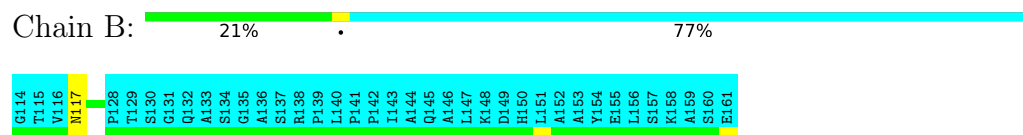


- Molecule 2: Sorting nexin-9

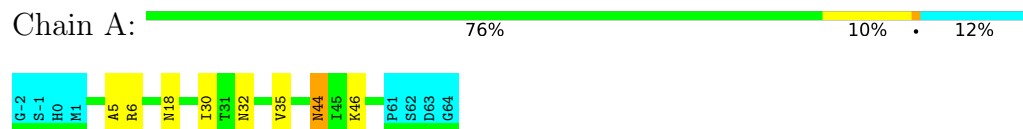


4.2.5 Score per residue for model 5

- Molecule 1: LEE-encoded effector EspF

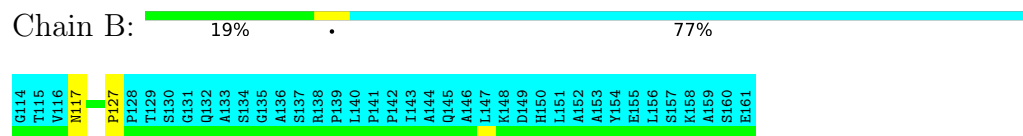


- Molecule 2: Sorting nexin-9

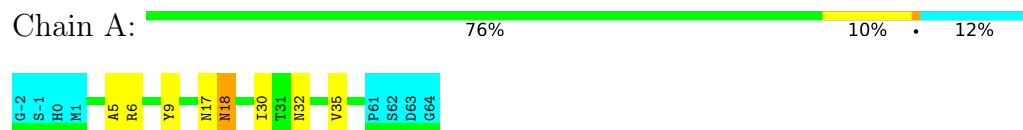


4.2.6 Score per residue for model 6

- Molecule 1: LEE-encoded effector EspF

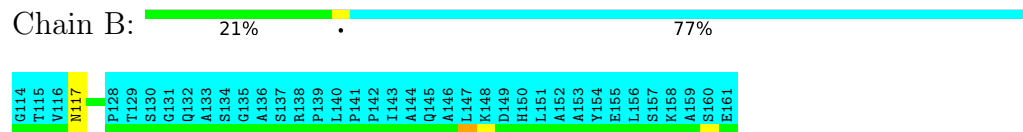


- Molecule 2: Sorting nexin-9

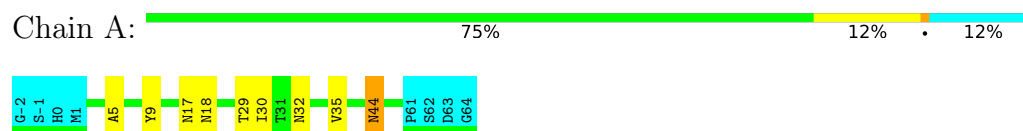


4.2.7 Score per residue for model 7

- Molecule 1: LEE-encoded effector EspF

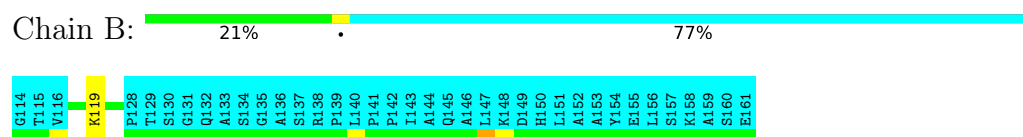


- Molecule 2: Sorting nexin-9

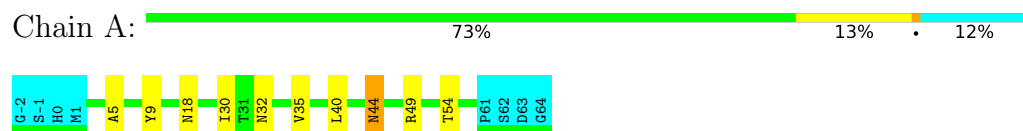


4.2.8 Score per residue for model 8

- Molecule 1: LEE-encoded effector EspF

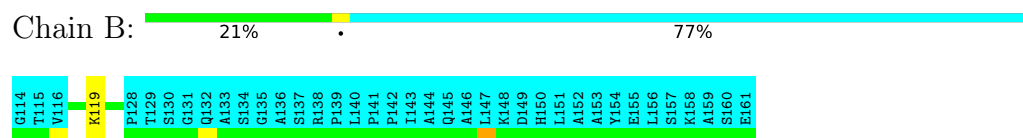


- Molecule 2: Sorting nexin-9

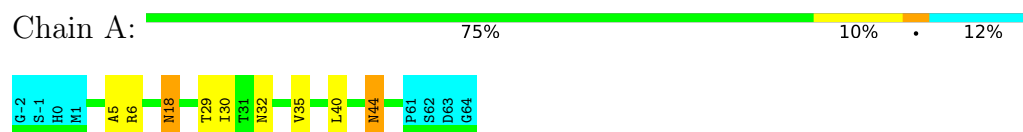


4.2.9 Score per residue for model 9

- Molecule 1: LEE-encoded effector EspF

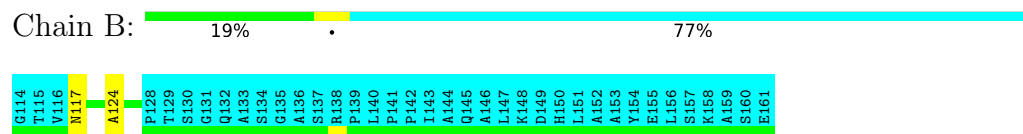


- Molecule 2: Sorting nexin-9

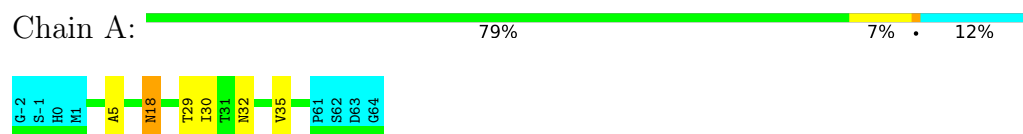


4.2.10 Score per residue for model 10

- Molecule 1: LEE-encoded effector EspF

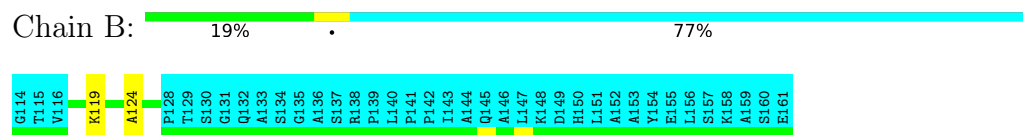


- Molecule 2: Sorting nexin-9

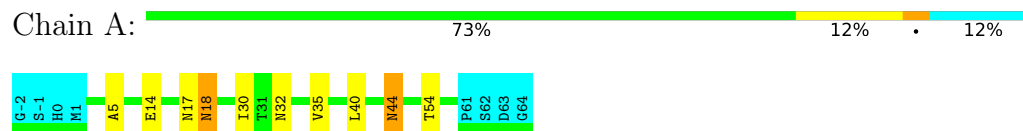


4.2.11 Score per residue for model 11

- Molecule 1: LEE-encoded effector EspF

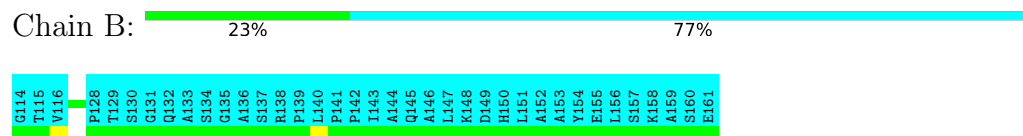


- Molecule 2: Sorting nexin-9

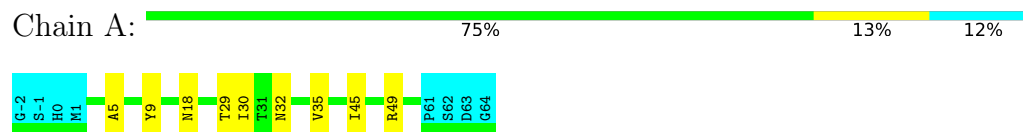


4.2.12 Score per residue for model 12

- Molecule 1: LEE-encoded effector EspF

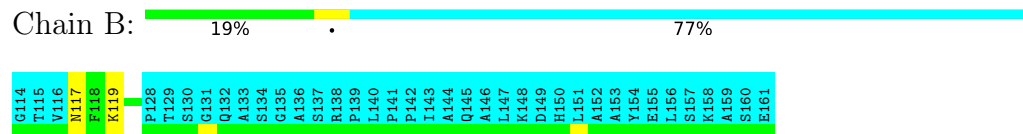


- Molecule 2: Sorting nexin-9

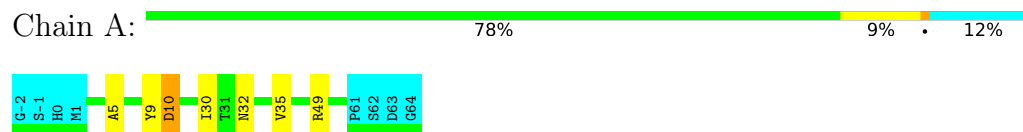


4.2.13 Score per residue for model 13 (medoid)

- Molecule 1: LEE-encoded effector EspF

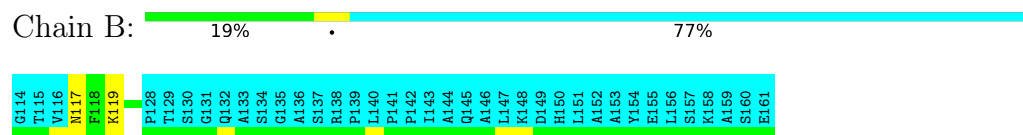


- Molecule 2: Sorting nexin-9

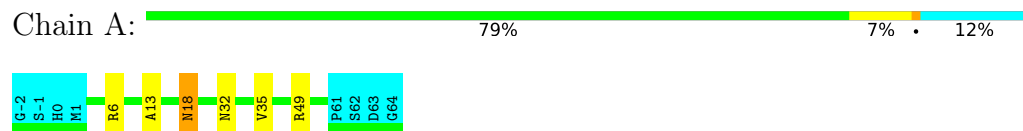


4.2.14 Score per residue for model 14

- Molecule 1: LEE-encoded effector EspF

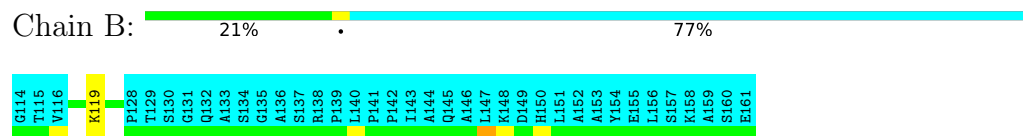


- Molecule 2: Sorting nexin-9

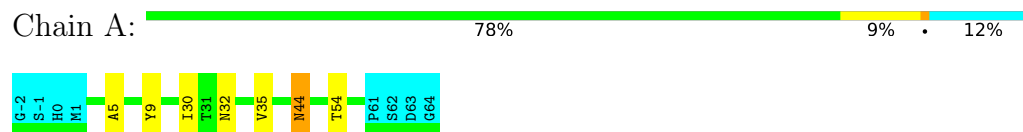


4.2.15 Score per residue for model 15

- Molecule 1: LEE-encoded effector EspF

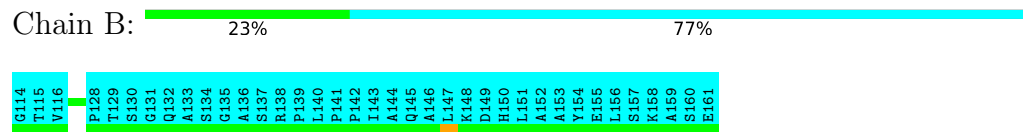


- Molecule 2: Sorting nexin-9

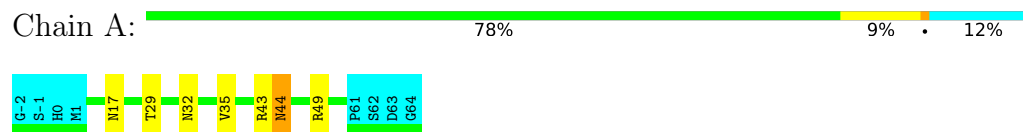


4.2.16 Score per residue for model 16

- Molecule 1: LEE-encoded effector EspF

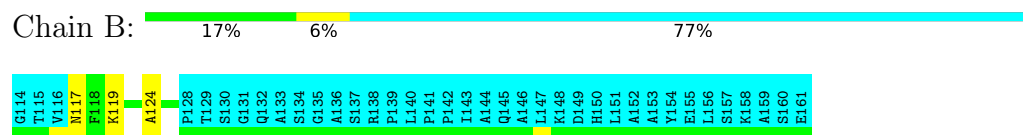


- Molecule 2: Sorting nexin-9

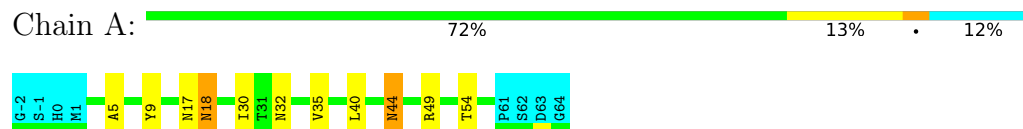


4.2.17 Score per residue for model 17

- Molecule 1: LEE-encoded effector EspF

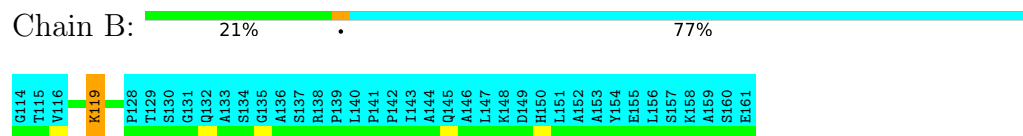


- Molecule 2: Sorting nexin-9

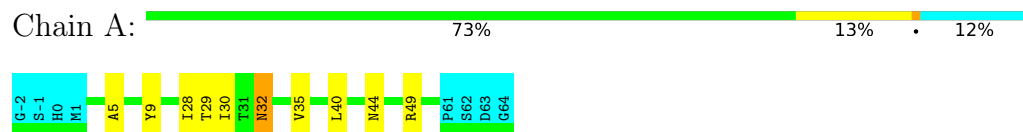


4.2.18 Score per residue for model 18

- Molecule 1: LEE-encoded effector EspF

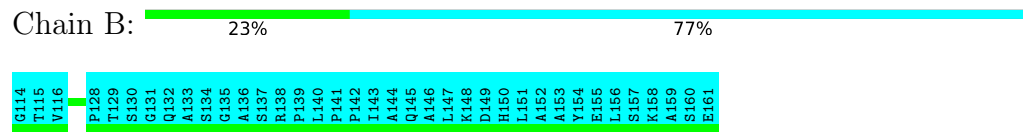


- Molecule 2: Sorting nexin-9

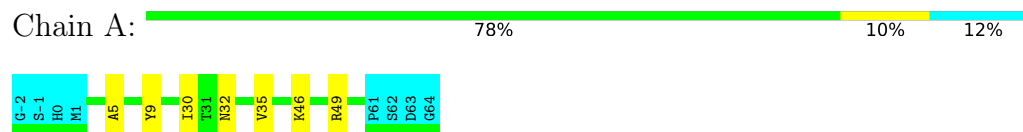


4.2.19 Score per residue for model 19

- Molecule 1: LEE-encoded effector EspF

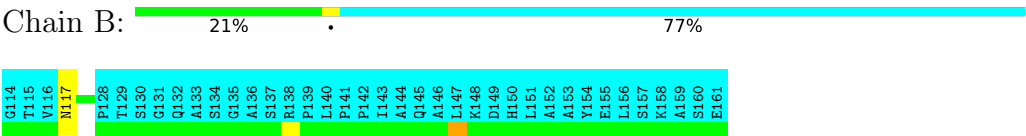


- Molecule 2: Sorting nexin-9

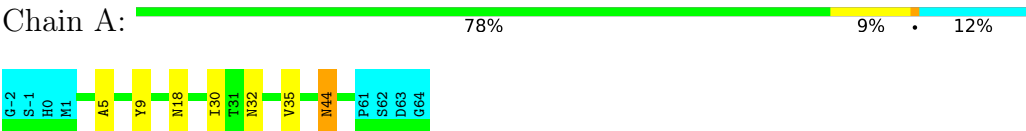


4.2.20 Score per residue for model 20

- Molecule 1: LEE-encoded effector EspF



- Molecule 2: Sorting nexin-9



5 Refinement protocol and experimental data overview

The models were refined using the following method: *restrained molecular dynamics*.

Of the 30 calculated structures, 20 were deposited, based on the following criterion: *structures with the least restraint violations*.

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

Software name	Classification	Version
CYANA	structure calculation	
Amber	refinement	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1373
Number of shifts mapped to atoms	1373
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	95%

6 Model quality (i)

6.1 Standard geometry (i)

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the (average) root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	B	1.03±0.04	0±0/92 (0.0± 0.0%)	1.68±0.08	1±1/130 (0.7± 0.7%)
2	A	0.81±0.02	0±0/458 (0.0± 0.0%)	1.40±0.05	2±1/625 (0.3± 0.1%)
All	All	0.85	0/11000 (0.0%)	1.45	53/15100 (0.4%)

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

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

There are no bond-length outliers.

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	A	18	ASN	CA-CB-CG	9.60	122.20	112.60	11	7
2	A	10	ASP	CA-CB-CG	7.68	120.28	112.60	13	1
2	A	44	ASN	CA-CB-CG	6.94	119.54	112.60	11	12
1	B	119	LYS	CA-C-N	5.74	125.50	119.76	2	6
1	B	119	LYS	C-N-CA	5.74	125.50	119.76	2	6
1	B	124	ALA	CA-C-N	5.42	123.56	119.66	10	3
1	B	124	ALA	C-N-CA	5.42	123.56	119.66	10	3
2	A	6	ARG	CD-NE-CZ	5.42	131.99	124.40	1	2
2	A	18	ASN	OD1-CG-ND2	-5.20	117.40	122.60	14	1
2	A	17	ASN	OD1-CG-ND2	-5.19	117.41	122.60	17	5
2	A	32	ASN	CA-C-N	5.12	125.20	119.87	18	1
2	A	32	ASN	C-N-CA	5.12	125.20	119.87	18	1
2	A	18	ASN	CB-CA-C	5.08	118.67	111.86	9	1
2	A	13	ALA	N-CA-C	5.08	117.80	110.28	14	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	B	127	PRO	N-CA-CB	5.05	105.85	103.22	6	1
2	A	45	ILE	CA-C-N	5.04	129.96	121.14	12	1
2	A	45	ILE	C-N-CA	5.04	129.96	121.14	12	1

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
2	A	6	ARG	Sidechain	1
2	A	43	ARG	Sidechain	1

6.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	B	86	88	88	0±0
2	A	450	439	439	1±1
All	All	10720	10540	10540	21

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 1.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:A:40:LEU:HD23	2:A:54:THR:HG22	0.52	1.82	8	3
2:A:5:ALA:HB2	2:A:30:ILE:HD11	0.50	1.81	19	16
2:A:28:ILE:HG22	2:A:44:ASN:HA	0.44	1.89	2	1
2:A:28:ILE:HG22	2:A:44:ASN:HB3	0.43	1.90	18	1

6.3 Torsion angles

6.3.1 Protein backbone

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	B	11/48 (23%)	11±0 (100±0%)	0±0 (0±0%)	0±0 (0±0%)	100	100
2	A	59/67 (88%)	58±1 (98±1%)	1±1 (2±1%)	0±0 (0±0%)	100	100
All	All	1400/2300 (61%)	1375 (98%)	25 (2%)	0 (0%)	100	100

There are no Ramachandran outliers.

6.3.2 Protein sidechains

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	10/37 (27%)	9±1 (92±6%)	1±1 (8±6%)	12	59
2	A	47/53 (89%)	42±1 (89±1%)	5±1 (11±1%)	8	50
All	All	1140/1800 (63%)	1016 (89%)	124 (11%)	8	52

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

Mol	Chain	Res	Type	Models (Total)
2	A	32	ASN	20
2	A	35	VAL	20
2	A	18	ASN	15
1	B	117	ASN	12
2	A	44	ASN	12
2	A	9	TYR	11
2	A	49	ARG	9
2	A	29	THR	8
1	B	119	LYS	5
2	A	6	ARG	4

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Mol	Chain	Res	Type	Models (Total)
2	A	40	LEU	3
2	A	46	LYS	2
2	A	14	GLU	1
2	A	10	ASP	1
2	A	54	THR	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no 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 95% for the well-defined parts and 93% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *D_1292147588_cs_P1.str.V1*

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	1373
Number of shifts mapped to atoms	1373
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	5

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
$^{13}\text{C}_\alpha$	113	0.15 ± 0.18	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	101	0.21 ± 0.19	None needed (< 0.5 ppm)
$^{13}\text{C}'$	113	0.21 ± 0.24	None needed (< 0.5 ppm)
^{15}N	112	-0.38 ± 0.23	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 95%, i.e. 881 atoms were assigned a chemical shift out of a possible 926. 0 out of 9 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	342/342 (100%)	140/140 (100%)	140/140 (100%)	62/62 (100%)
Sidechain	491/534 (92%)	330/346 (95%)	151/167 (90%)	10/21 (48%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	48/50 (96%)	24/24 (100%)	23/25 (92%)	1/1 (100%)
Overall	881/926 (95%)	494/510 (97%)	314/332 (95%)	73/84 (87%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 93%, i.e. 1360 atoms were assigned a chemical shift out of a possible 1455. 0 out of 14 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	547/562 (97%)	222/230 (97%)	226/230 (98%)	99/102 (97%)
Sidechain	751/820 (92%)	508/535 (95%)	231/257 (90%)	12/28 (43%)
Aromatic	62/73 (85%)	31/36 (86%)	30/34 (88%)	1/3 (33%)
Overall	1360/1455 (93%)	761/801 (95%)	487/521 (93%)	112/133 (84%)

7.1.4 Statistically unusual chemical shifts [i](#)

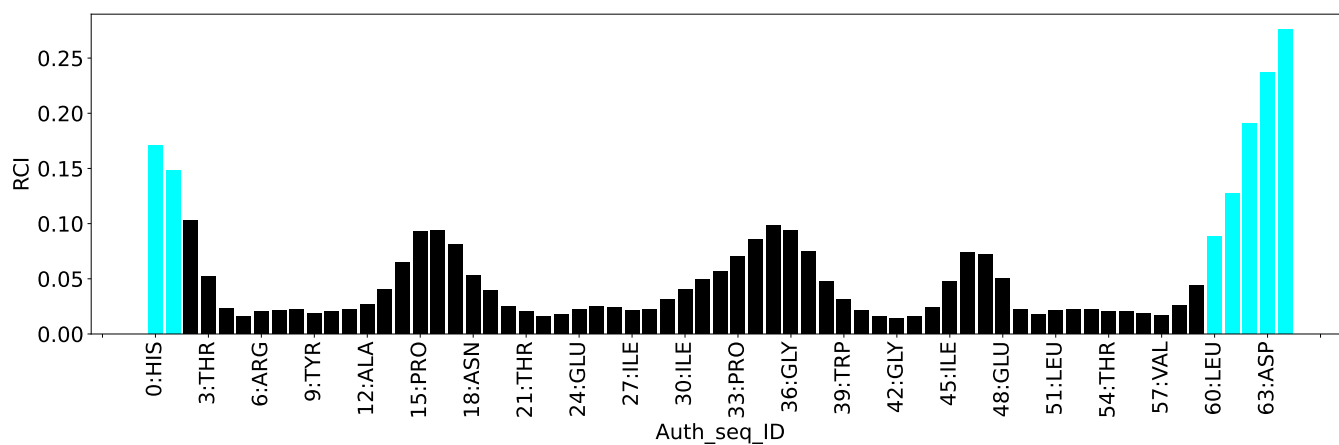
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	53	PRO	HG3	0.07	0.33 – 3.48	-5.8
1	A	53	PRO	HG2	0.20	0.41 – 3.45	-5.7
1	B	124	ALA	HB1	0.08	0.14 – 2.58	-5.2
1	B	124	ALA	HB2	0.08	0.14 – 2.58	-5.2
1	B	124	ALA	HB3	0.08	0.14 – 2.58	-5.2

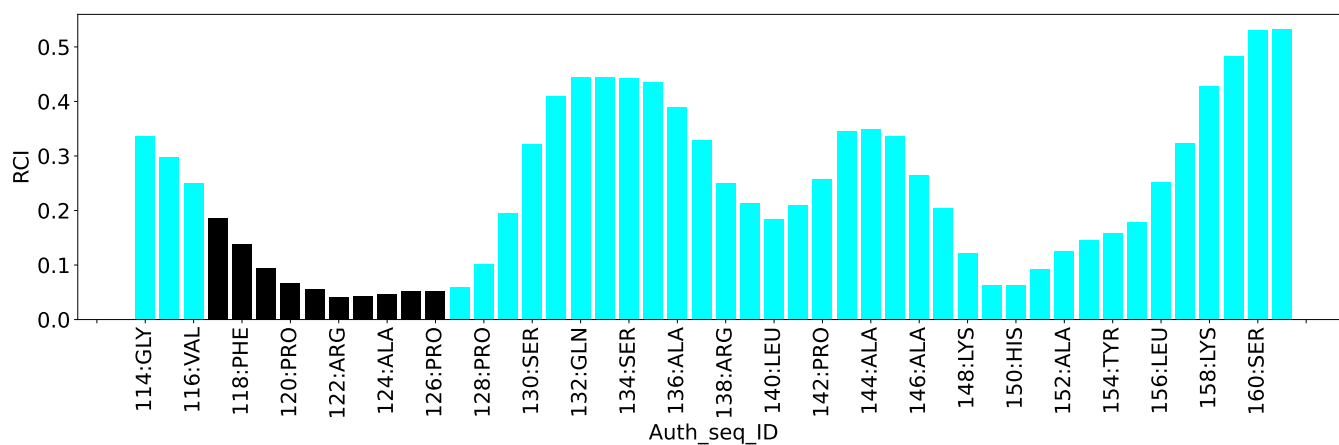
7.1.5 Random Coil Index (RCI) plots [i](#)

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	2187
Intra-residue ($ i-j =0$)	414
Sequential ($ i-j =1$)	656
Medium range ($ i-j >1$ and $ i-j <5$)	274
Long range ($ i-j \geq 5$)	611
Inter-chain	232
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	115
Number of unmapped restraints	0
Number of restraints per residue	20.0
Number of long range restraints per residue ¹	5.3

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)	8.2	0.2
0.2-0.5 (Medium)	3.0	0.5
>0.5 (Large)	1.7	0.93

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	4.1	8.84
10.0-20.0 (Medium)	1.8	19.15
>20.0 (Large)	0.4	45.13

9 Distance violation analysis ⓘ

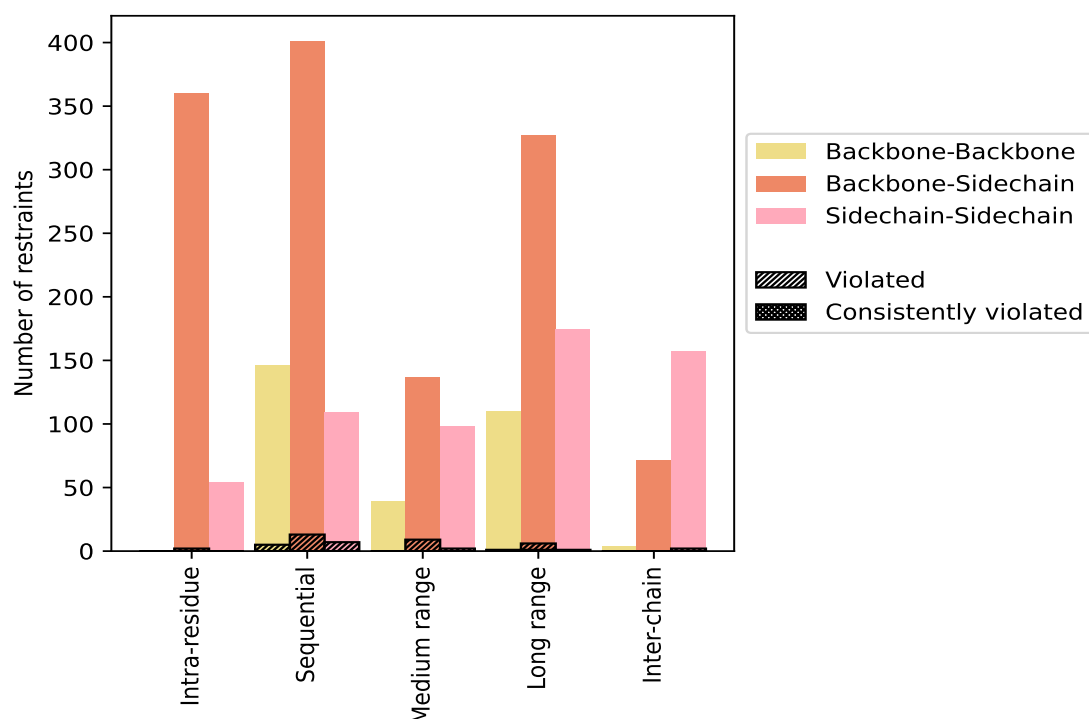
9.1 Summary of distance violations ⓘ

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

Restraints type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	414	18.9	2	0.5	0.1	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	360	16.5	2	0.6	0.1	0	0.0	0.0
Sidechain-Sidechain	54	2.5	0	0.0	0.0	0	0.0	0.0
Sequential ($i-j =1$)	656	30.0	25	3.8	1.1	0	0.0	0.0
Backbone-Backbone	146	6.7	5	3.4	0.2	0	0.0	0.0
Backbone-Sidechain	401	18.3	13	3.2	0.6	0	0.0	0.0
Sidechain-Sidechain	109	5.0	7	6.4	0.3	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	274	12.5	11	4.0	0.5	0	0.0	0.0
Backbone-Backbone	39	1.8	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	137	6.3	9	6.6	0.4	0	0.0	0.0
Sidechain-Sidechain	98	4.5	2	2.0	0.1	0	0.0	0.0
Long range ($i-j \geq 5$)	611	27.9	8	1.3	0.4	1	0.2	0.0
Backbone-Backbone	110	5.0	1	0.9	0.0	0	0.0	0.0
Backbone-Sidechain	327	15.0	6	1.8	0.3	1	0.3	0.0
Sidechain-Sidechain	174	8.0	1	0.6	0.0	0	0.0	0.0
Inter-chain	232	10.6	2	0.9	0.1	0	0.0	0.0
Backbone-Backbone	4	0.2	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	71	3.2	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	157	7.2	2	1.3	0.1	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2187	100.0	48	2.2	2.2	1	0.0	0.0
Backbone-Backbone	299	13.7	6	2.0	0.3	0	0.0	0.0
Backbone-Sidechain	1296	59.3	30	2.3	1.4	1	0.1	0.0
Sidechain-Sidechain	592	27.1	12	2.0	0.5	0	0.0	0.0

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	1	4	5	4	2	16	0.24	0.74	0.2	0.12
2	0	7	3	4	2	16	0.28	0.64	0.18	0.19
3	0	4	3	6	1	14	0.23	0.56	0.14	0.16
4	0	6	2	2	2	12	0.2	0.49	0.11	0.16
5	0	6	4	3	2	15	0.27	0.63	0.2	0.17
6	0	6	2	2	1	11	0.22	0.64	0.15	0.16
7	0	8	5	5	1	19	0.33	0.93	0.27	0.23
8	0	6	5	3	2	16	0.24	0.62	0.17	0.16
9	0	2	3	5	1	11	0.22	0.44	0.12	0.18
10	0	10	1	3	2	16	0.24	0.8	0.17	0.18

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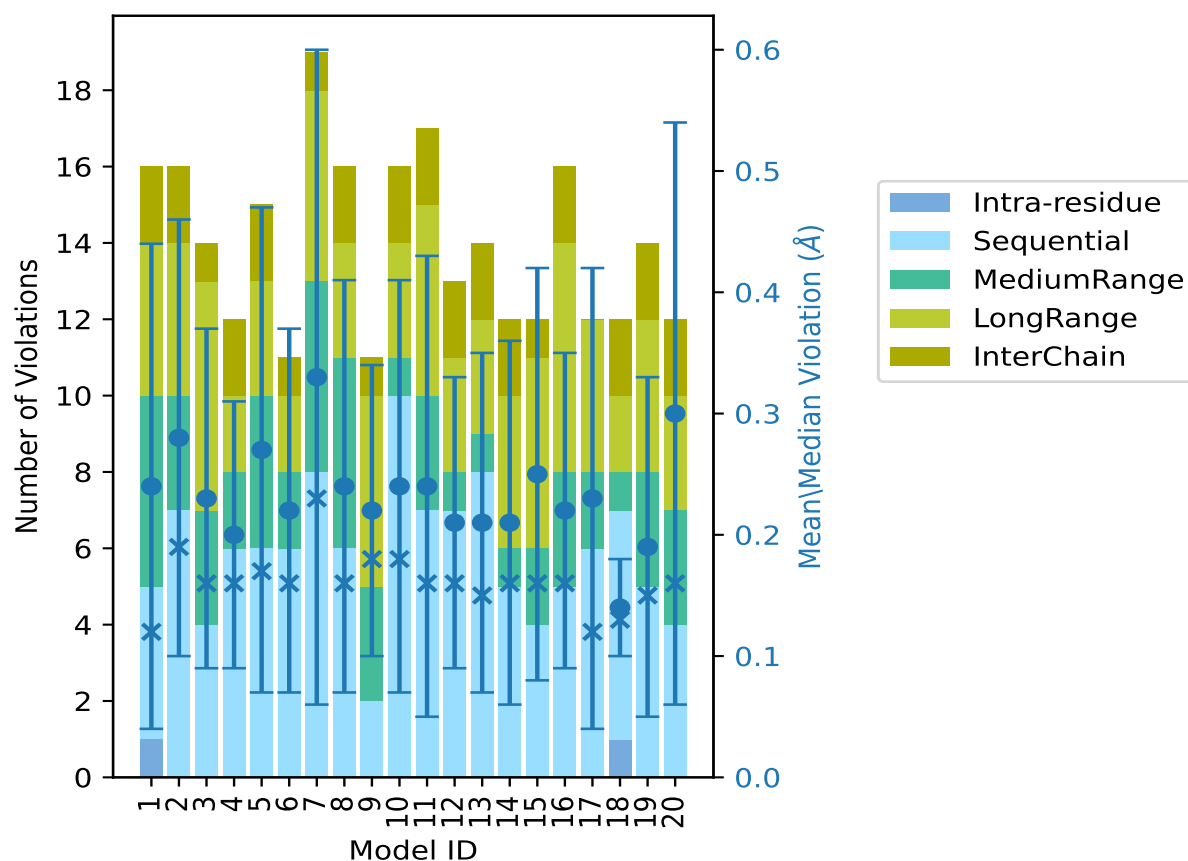
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	0	7	3	5	2	17	0.24	0.69	0.19	0.16
12	0	7	1	3	2	13	0.21	0.55	0.12	0.16
13	0	8	1	3	2	14	0.21	0.55	0.14	0.15
14	0	5	1	4	2	12	0.21	0.55	0.15	0.16
15	0	4	2	5	1	12	0.25	0.61	0.17	0.16
16	0	5	3	6	2	16	0.22	0.54	0.13	0.16
17	0	6	2	4	0	12	0.23	0.69	0.19	0.12
18	1	6	1	2	2	12	0.14	0.23	0.04	0.13
19	0	5	3	4	2	14	0.19	0.6	0.14	0.15
20	0	4	3	3	2	12	0.3	0.79	0.24	0.16

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 ⓘ



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

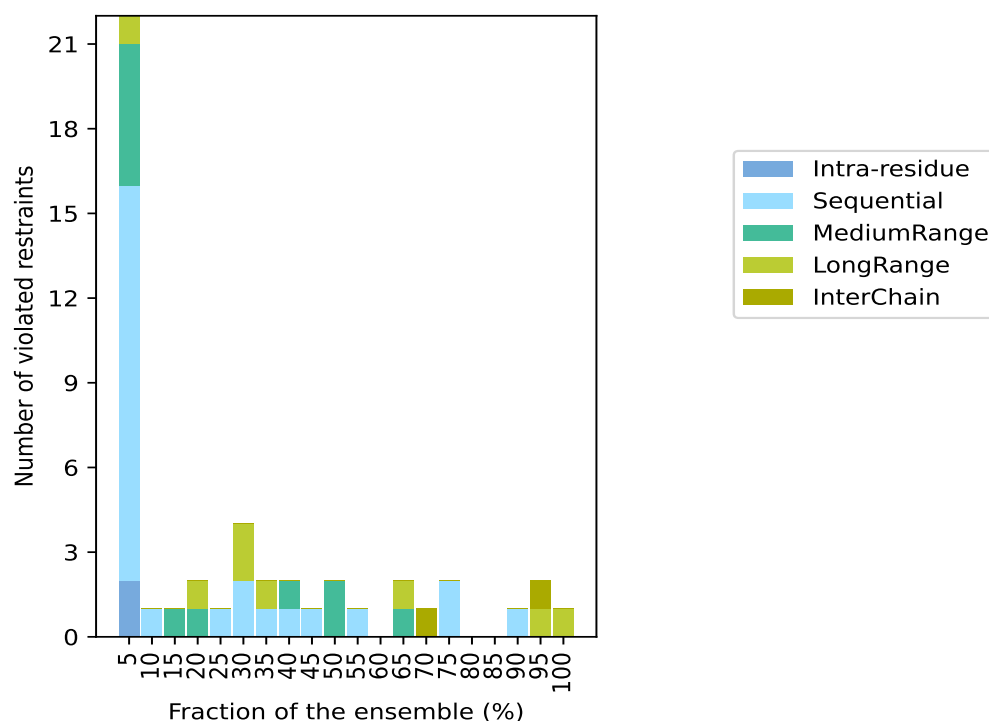
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 2139(IR:412, SQ:631, MR:263, LR:603, IC:230) restraints are 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	%
2	14	5	1	0	22	1	5.0
0	1	0	0	0	1	2	10.0
0	0	1	0	0	1	3	15.0
0	0	1	1	0	2	4	20.0
0	1	0	0	0	1	5	25.0
0	2	0	2	0	4	6	30.0
0	1	0	1	0	2	7	35.0
0	1	1	0	0	2	8	40.0
0	1	0	0	0	1	9	45.0
0	0	2	0	0	2	10	50.0
0	1	0	0	0	1	11	55.0
0	0	0	0	0	0	12	60.0
0	0	1	1	0	2	13	65.0
0	0	0	0	1	1	14	70.0
0	2	0	0	0	2	15	75.0
0	0	0	0	0	0	16	80.0
0	0	0	0	0	0	17	85.0
0	1	0	0	0	1	18	90.0
0	0	0	1	1	2	19	95.0
0	0	0	1	0	1	20	100.0

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

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

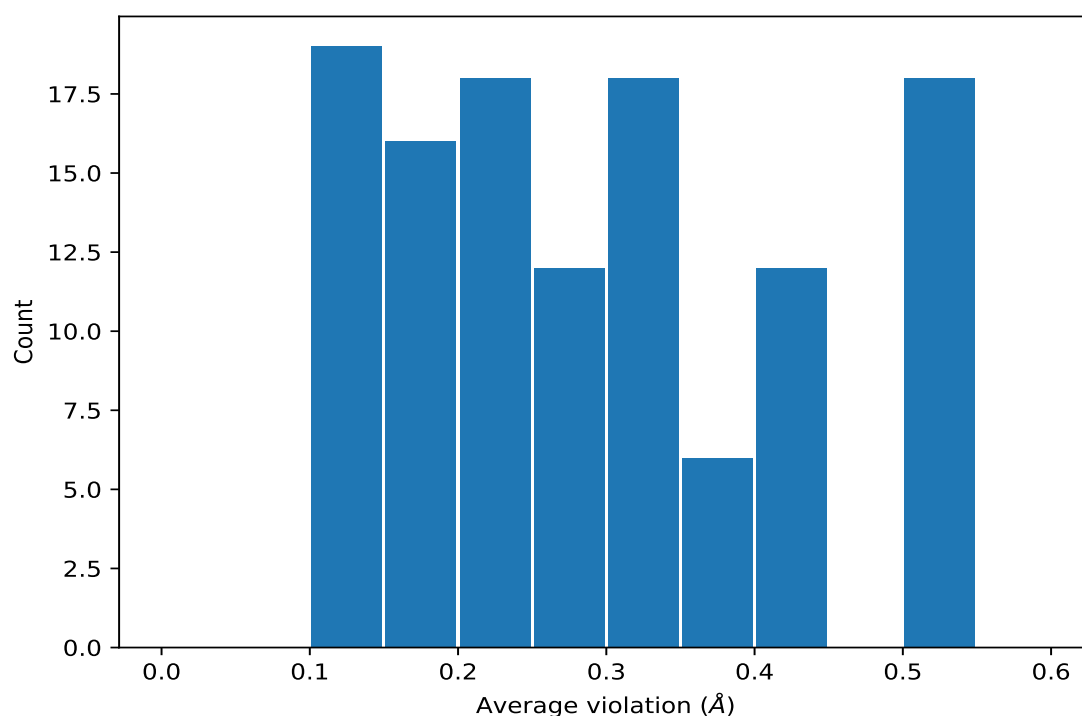
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	20	0.15	0.02	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	19	0.16	0.03	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	19	0.16	0.03	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	19	0.16	0.03	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	19	0.16	0.03	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	19	0.16	0.03	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	19	0.16	0.03	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	19	0.16	0.03	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	19	0.16	0.03	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	19	0.16	0.03	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	19	0.16	0.03	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	19	0.16	0.03	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	19	0.16	0.03	0.16
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	19	0.14	0.02	0.14
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	19	0.14	0.02	0.14
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	19	0.14	0.02	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	18	0.5	0.15	0.54
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	18	0.5	0.15	0.54
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	18	0.5	0.15	0.54
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	18	0.5	0.15	0.54
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	18	0.5	0.15	0.54
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	18	0.5	0.15	0.54
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD11	15	0.44	0.17	0.43
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD12	15	0.44	0.17	0.43
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD13	15	0.44	0.17	0.43
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD21	15	0.44	0.17	0.43
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD22	15	0.44	0.17	0.43
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD23	15	0.44	0.17	0.43
(1,574)	1:154:B:TYR:HD1	1:155:B:GLU:HA	15	0.13	0.02	0.13
(1,574)	1:154:B:TYR:HD2	1:155:B:GLU:HA	15	0.13	0.02	0.13
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD11	14	0.21	0.06	0.22
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD12	14	0.21	0.06	0.22
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD13	14	0.21	0.06	0.22
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD21	14	0.21	0.06	0.22
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD22	14	0.21	0.06	0.22
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD23	14	0.21	0.06	0.22
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD11	14	0.21	0.06	0.22
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD12	14	0.21	0.06	0.22
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD13	14	0.21	0.06	0.22
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD21	14	0.21	0.06	0.22
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD22	14	0.21	0.06	0.22
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD23	14	0.21	0.06	0.22
(1,1225)	2:20:A:LEU:HD11	2:22:A:VAL:HB	13	0.51	0.18	0.48
(1,1225)	2:20:A:LEU:HD12	2:22:A:VAL:HB	13	0.51	0.18	0.48
(1,1225)	2:20:A:LEU:HD13	2:22:A:VAL:HB	13	0.51	0.18	0.48
(1,1225)	2:20:A:LEU:HD21	2:22:A:VAL:HB	13	0.51	0.18	0.48
(1,1225)	2:20:A:LEU:HD22	2:22:A:VAL:HB	13	0.51	0.18	0.48
(1,1225)	2:20:A:LEU:HD23	2:22:A:VAL:HB	13	0.51	0.18	0.48
(1,1227)	2:20:A:LEU:HG	2:42:A:GLY:H	13	0.14	0.03	0.13
(1,1281)	2:21:A:THR:H	2:22:A:VAL:H	11	0.13	0.02	0.14
(1,1224)	2:20:A:LEU:HD11	2:22:A:VAL:HA	10	0.5	0.21	0.52
(1,1224)	2:20:A:LEU:HD12	2:22:A:VAL:HA	10	0.5	0.21	0.52
(1,1224)	2:20:A:LEU:HD13	2:22:A:VAL:HA	10	0.5	0.21	0.52
(1,1224)	2:20:A:LEU:HD21	2:22:A:VAL:HA	10	0.5	0.21	0.52
(1,1224)	2:20:A:LEU:HD22	2:22:A:VAL:HA	10	0.5	0.21	0.52
(1,1224)	2:20:A:LEU:HD23	2:22:A:VAL:HA	10	0.5	0.21	0.52
(1,1223)	2:20:A:LEU:HD11	2:22:A:VAL:H	10	0.36	0.16	0.34
(1,1223)	2:20:A:LEU:HD12	2:22:A:VAL:H	10	0.36	0.16	0.34

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1223)	2:20:A:LEU:HD13	2:22:A:VAL:H	10	0.36	0.16	0.34
(1,1223)	2:20:A:LEU:HD21	2:22:A:VAL:H	10	0.36	0.16	0.34
(1,1223)	2:20:A:LEU:HD22	2:22:A:VAL:H	10	0.36	0.16	0.34
(1,1223)	2:20:A:LEU:HD23	2:22:A:VAL:H	10	0.36	0.16	0.34
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD1	9	0.11	0.01	0.11
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD2	9	0.11	0.01	0.11
(1,1867)	2:44:A:ASN:HB3	2:45:A:ILE:HA	8	0.19	0.02	0.2
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG2	8	0.15	0.04	0.15
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG3	8	0.15	0.04	0.15
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD11	7	0.3	0.08	0.31
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD12	7	0.3	0.08	0.31
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD13	7	0.3	0.08	0.31
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD21	7	0.3	0.08	0.31
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD22	7	0.3	0.08	0.31
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD23	7	0.3	0.08	0.31
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD11	7	0.3	0.08	0.31
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD12	7	0.3	0.08	0.31
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD13	7	0.3	0.08	0.31
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD21	7	0.3	0.08	0.31
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD22	7	0.3	0.08	0.31
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD23	7	0.3	0.08	0.31
(1,978)	2:9:A:TYR:H	2:57:A:VAL:HA	7	0.12	0.02	0.12
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD11	6	0.44	0.27	0.42
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD12	6	0.44	0.27	0.42
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD13	6	0.44	0.27	0.42
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD21	6	0.44	0.27	0.42
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD22	6	0.44	0.27	0.42
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD23	6	0.44	0.27	0.42
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD11	6	0.34	0.12	0.3
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD12	6	0.34	0.12	0.3
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD13	6	0.34	0.12	0.3
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD21	6	0.34	0.12	0.3
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD22	6	0.34	0.12	0.3
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD23	6	0.34	0.12	0.3
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD11	6	0.25	0.14	0.22
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD12	6	0.25	0.14	0.22
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD13	6	0.25	0.14	0.22
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD21	6	0.25	0.14	0.22
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD22	6	0.25	0.14	0.22
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD23	6	0.25	0.14	0.22
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD11	6	0.25	0.14	0.22
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD12	6	0.25	0.14	0.22

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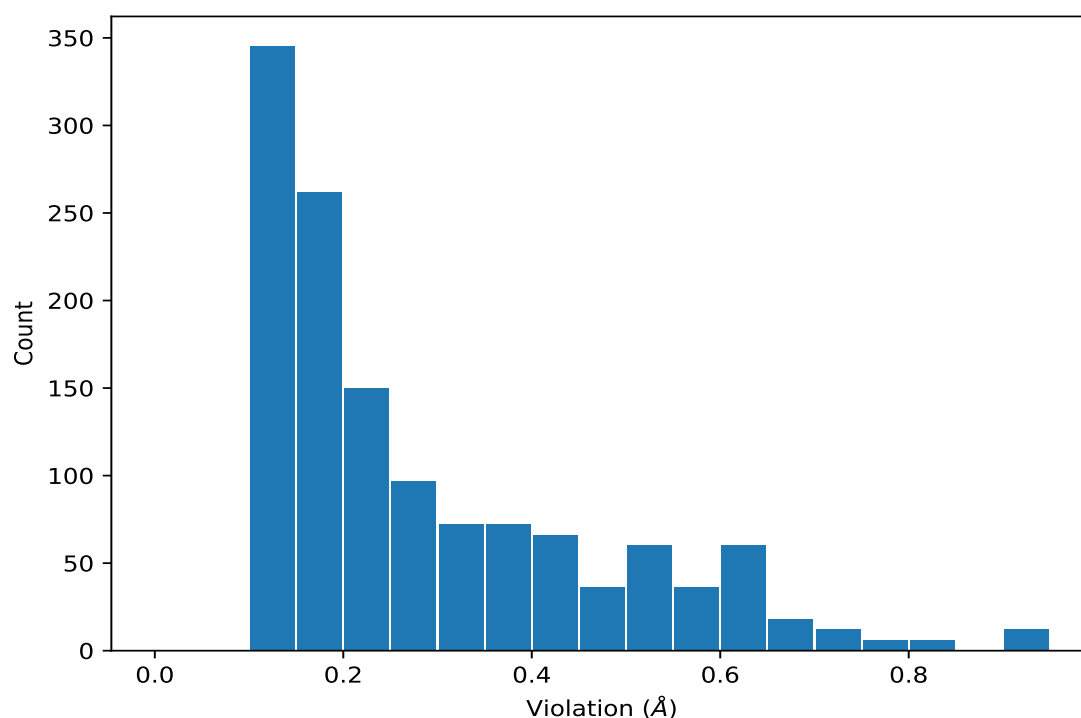
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD13	6	0.25	0.14	0.22
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD21	6	0.25	0.14	0.22
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD22	6	0.25	0.14	0.22
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD23	6	0.25	0.14	0.22
(1,630)	2:3:A:THR:H	2:29:A:THR:HB	6	0.12	0.01	0.11
(1,1463)	2:29:A:THR:HB	2:30:A:ILE:HA	5	0.11	0.01	0.11
(1,1186)	2:19:A:GLU:HB3	2:21:A:THR:HA	4	0.12	0.01	0.12
(1,1348)	2:23:A:ASN:H	2:28:A:ILE:HD11	4	0.11	0.01	0.11
(1,1348)	2:23:A:ASN:H	2:28:A:ILE:HD12	4	0.11	0.01	0.11
(1,1348)	2:23:A:ASN:H	2:28:A:ILE:HD13	4	0.11	0.01	0.11
(1,2067)	2:54:A:THR:HG21	2:57:A:VAL:H	3	0.11	0.0	0.11
(1,2067)	2:54:A:THR:HG22	2:57:A:VAL:H	3	0.11	0.0	0.11
(1,2067)	2:54:A:THR:HG23	2:57:A:VAL:H	3	0.11	0.0	0.11
(1,503)	1:147:B:LEU:HD11	1:148:B:LYS:HA	2	0.24	0.08	0.24
(1,503)	1:147:B:LEU:HD12	1:148:B:LYS:HA	2	0.24	0.08	0.24
(1,503)	1:147:B:LEU:HD13	1:148:B:LYS:HA	2	0.24	0.08	0.24
(1,503)	1:147:B:LEU:HD21	1:148:B:LYS:HA	2	0.24	0.08	0.24
(1,503)	1:147:B:LEU:HD22	1:148:B:LYS:HA	2	0.24	0.08	0.24
(1,503)	1:147:B:LEU:HD23	1:148:B:LYS:HA	2	0.24	0.08	0.24

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints ⓘ

9.5.1 Histogram : Distribution of distance violations ⓘ

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)
(1,1224)	2:20:A:LEU:HD11	2:22:A:VAL:HA	7	0.93
(1,1224)	2:20:A:LEU:HD12	2:22:A:VAL:HA	7	0.93
(1,1224)	2:20:A:LEU:HD13	2:22:A:VAL:HA	7	0.93
(1,1224)	2:20:A:LEU:HD21	2:22:A:VAL:HA	7	0.93
(1,1224)	2:20:A:LEU:HD22	2:22:A:VAL:HA	7	0.93
(1,1224)	2:20:A:LEU:HD23	2:22:A:VAL:HA	7	0.93
(1,1225)	2:20:A:LEU:HD11	2:22:A:VAL:HB	7	0.91
(1,1225)	2:20:A:LEU:HD12	2:22:A:VAL:HB	7	0.91
(1,1225)	2:20:A:LEU:HD13	2:22:A:VAL:HB	7	0.91
(1,1225)	2:20:A:LEU:HD21	2:22:A:VAL:HB	7	0.91
(1,1225)	2:20:A:LEU:HD22	2:22:A:VAL:HB	7	0.91
(1,1225)	2:20:A:LEU:HD23	2:22:A:VAL:HB	7	0.91
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD11	10	0.8
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD12	10	0.8
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD13	10	0.8
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD21	10	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD22	10	0.8
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD23	10	0.8
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD11	20	0.79
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD12	20	0.79
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD13	20	0.79
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD21	20	0.79
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD22	20	0.79
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD23	20	0.79
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	1	0.74
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	1	0.74
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	1	0.74
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	1	0.74
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	1	0.74
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	1	0.74
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	20	0.74
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	20	0.74
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	20	0.74
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	20	0.74
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	20	0.74
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	20	0.74
(1,1225)	2:20:A:LEU:HD11	2:22:A:VAL:HB	11	0.69
(1,1225)	2:20:A:LEU:HD12	2:22:A:VAL:HB	11	0.69
(1,1225)	2:20:A:LEU:HD13	2:22:A:VAL:HB	11	0.69
(1,1225)	2:20:A:LEU:HD21	2:22:A:VAL:HB	11	0.69
(1,1225)	2:20:A:LEU:HD22	2:22:A:VAL:HB	11	0.69
(1,1225)	2:20:A:LEU:HD23	2:22:A:VAL:HB	11	0.69
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD11	17	0.69
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD12	17	0.69
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD13	17	0.69
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD21	17	0.69
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD22	17	0.69
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD23	17	0.69
(1,1224)	2:20:A:LEU:HD11	2:22:A:VAL:HA	11	0.66
(1,1224)	2:20:A:LEU:HD12	2:22:A:VAL:HA	11	0.66
(1,1224)	2:20:A:LEU:HD13	2:22:A:VAL:HA	11	0.66
(1,1224)	2:20:A:LEU:HD21	2:22:A:VAL:HA	11	0.66
(1,1224)	2:20:A:LEU:HD22	2:22:A:VAL:HA	11	0.66
(1,1224)	2:20:A:LEU:HD23	2:22:A:VAL:HA	11	0.66
(1,1225)	2:20:A:LEU:HD11	2:22:A:VAL:HB	2	0.64
(1,1225)	2:20:A:LEU:HD12	2:22:A:VAL:HB	2	0.64
(1,1225)	2:20:A:LEU:HD13	2:22:A:VAL:HB	2	0.64
(1,1225)	2:20:A:LEU:HD21	2:22:A:VAL:HB	2	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1225)	2:20:A:LEU:HD22	2:22:A:VAL:HB	2	0.64
(1,1225)	2:20:A:LEU:HD23	2:22:A:VAL:HB	2	0.64
(1,1224)	2:20:A:LEU:HD11	2:22:A:VAL:HA	2	0.64
(1,1224)	2:20:A:LEU:HD12	2:22:A:VAL:HA	2	0.64
(1,1224)	2:20:A:LEU:HD13	2:22:A:VAL:HA	2	0.64
(1,1224)	2:20:A:LEU:HD21	2:22:A:VAL:HA	2	0.64
(1,1224)	2:20:A:LEU:HD22	2:22:A:VAL:HA	2	0.64
(1,1224)	2:20:A:LEU:HD23	2:22:A:VAL:HA	2	0.64
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	6	0.64
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	6	0.64
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	6	0.64
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	6	0.64
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	6	0.64
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	6	0.64
(1,1223)	2:20:A:LEU:HD11	2:22:A:VAL:H	7	0.63
(1,1223)	2:20:A:LEU:HD12	2:22:A:VAL:H	7	0.63
(1,1223)	2:20:A:LEU:HD13	2:22:A:VAL:H	7	0.63
(1,1223)	2:20:A:LEU:HD21	2:22:A:VAL:H	7	0.63
(1,1223)	2:20:A:LEU:HD22	2:22:A:VAL:H	7	0.63
(1,1223)	2:20:A:LEU:HD23	2:22:A:VAL:H	7	0.63
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD11	7	0.63
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD12	7	0.63
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD13	7	0.63
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD21	7	0.63
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD22	7	0.63
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD23	7	0.63
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	5	0.63
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	5	0.63
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	5	0.63
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	5	0.63
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	5	0.63
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	5	0.63
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD11	8	0.62
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD12	8	0.62
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD13	8	0.62
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD21	8	0.62
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD22	8	0.62
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD23	8	0.62
(1,1225)	2:20:A:LEU:HD11	2:22:A:VAL:HB	5	0.61
(1,1225)	2:20:A:LEU:HD12	2:22:A:VAL:HB	5	0.61
(1,1225)	2:20:A:LEU:HD13	2:22:A:VAL:HB	5	0.61
(1,1225)	2:20:A:LEU:HD21	2:22:A:VAL:HB	5	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1225)	2:20:A:LEU:HD22	2:22:A:VAL:HB	5	0.61
(1,1225)	2:20:A:LEU:HD23	2:22:A:VAL:HB	5	0.61
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD11	15	0.61
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD12	15	0.61
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD13	15	0.61
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD21	15	0.61
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD22	15	0.61
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD23	15	0.61
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD11	19	0.6
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD12	19	0.6
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD13	19	0.6
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD21	19	0.6
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD22	19	0.6
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD23	19	0.6
(1,1225)	2:20:A:LEU:HD11	2:22:A:VAL:HB	1	0.59
(1,1225)	2:20:A:LEU:HD12	2:22:A:VAL:HB	1	0.59
(1,1225)	2:20:A:LEU:HD13	2:22:A:VAL:HB	1	0.59
(1,1225)	2:20:A:LEU:HD21	2:22:A:VAL:HB	1	0.59
(1,1225)	2:20:A:LEU:HD22	2:22:A:VAL:HB	1	0.59
(1,1225)	2:20:A:LEU:HD23	2:22:A:VAL:HB	1	0.59
(1,1224)	2:20:A:LEU:HD11	2:22:A:VAL:HA	5	0.59
(1,1224)	2:20:A:LEU:HD12	2:22:A:VAL:HA	5	0.59
(1,1224)	2:20:A:LEU:HD13	2:22:A:VAL:HA	5	0.59
(1,1224)	2:20:A:LEU:HD21	2:22:A:VAL:HA	5	0.59
(1,1224)	2:20:A:LEU:HD22	2:22:A:VAL:HA	5	0.59
(1,1224)	2:20:A:LEU:HD23	2:22:A:VAL:HA	5	0.59
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	3	0.56
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	3	0.56
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	3	0.56
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	3	0.56
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	3	0.56
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	3	0.56
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	12	0.55
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	12	0.55
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	12	0.55
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	12	0.55
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	12	0.55
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	12	0.55
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	13	0.55
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	13	0.55
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	13	0.55
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	13	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	13	0.55
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	13	0.55
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	14	0.55
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	14	0.55
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	14	0.55
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	14	0.55
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	14	0.55
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	14	0.55
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD11	16	0.54
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD12	16	0.54
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD13	16	0.54
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD21	16	0.54
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD22	16	0.54
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD23	16	0.54
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	17	0.54
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	17	0.54
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	17	0.54
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	17	0.54
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	17	0.54
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	17	0.54
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	15	0.53
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	15	0.53
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	15	0.53
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	15	0.53
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	15	0.53
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	15	0.53
(1,1224)	2:20:A:LEU:HD11	2:22:A:VAL:HA	1	0.52
(1,1224)	2:20:A:LEU:HD12	2:22:A:VAL:HA	1	0.52
(1,1224)	2:20:A:LEU:HD13	2:22:A:VAL:HA	1	0.52
(1,1224)	2:20:A:LEU:HD21	2:22:A:VAL:HA	1	0.52
(1,1224)	2:20:A:LEU:HD22	2:22:A:VAL:HA	1	0.52
(1,1224)	2:20:A:LEU:HD23	2:22:A:VAL:HA	1	0.52
(1,1223)	2:20:A:LEU:HD11	2:22:A:VAL:H	2	0.52
(1,1223)	2:20:A:LEU:HD12	2:22:A:VAL:H	2	0.52
(1,1223)	2:20:A:LEU:HD13	2:22:A:VAL:H	2	0.52
(1,1223)	2:20:A:LEU:HD21	2:22:A:VAL:H	2	0.52
(1,1223)	2:20:A:LEU:HD22	2:22:A:VAL:H	2	0.52
(1,1223)	2:20:A:LEU:HD23	2:22:A:VAL:H	2	0.52
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD11	13	0.52
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD12	13	0.52
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD13	13	0.52
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD21	13	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD22	13	0.52
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD23	13	0.52
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD11	14	0.52
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD12	14	0.52
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD13	14	0.52
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD21	14	0.52
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD22	14	0.52
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD23	14	0.52
(1,1224)	2:20:A:LEU:HD11	2:22:A:VAL:HA	8	0.51
(1,1224)	2:20:A:LEU:HD12	2:22:A:VAL:HA	8	0.51
(1,1224)	2:20:A:LEU:HD13	2:22:A:VAL:HA	8	0.51
(1,1224)	2:20:A:LEU:HD21	2:22:A:VAL:HA	8	0.51
(1,1224)	2:20:A:LEU:HD22	2:22:A:VAL:HA	8	0.51
(1,1224)	2:20:A:LEU:HD23	2:22:A:VAL:HA	8	0.51
(1,1223)	2:20:A:LEU:HD11	2:22:A:VAL:H	11	0.51
(1,1223)	2:20:A:LEU:HD12	2:22:A:VAL:H	11	0.51
(1,1223)	2:20:A:LEU:HD13	2:22:A:VAL:H	11	0.51
(1,1223)	2:20:A:LEU:HD21	2:22:A:VAL:H	11	0.51
(1,1223)	2:20:A:LEU:HD22	2:22:A:VAL:H	11	0.51
(1,1223)	2:20:A:LEU:HD23	2:22:A:VAL:H	11	0.51
(1,1225)	2:20:A:LEU:HD11	2:22:A:VAL:HB	8	0.5
(1,1225)	2:20:A:LEU:HD12	2:22:A:VAL:HB	8	0.5
(1,1225)	2:20:A:LEU:HD13	2:22:A:VAL:HB	8	0.5
(1,1225)	2:20:A:LEU:HD21	2:22:A:VAL:HB	8	0.5
(1,1225)	2:20:A:LEU:HD22	2:22:A:VAL:HB	8	0.5
(1,1225)	2:20:A:LEU:HD23	2:22:A:VAL:HB	8	0.5
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD11	4	0.49
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD12	4	0.49
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD13	4	0.49
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD21	4	0.49
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD22	4	0.49
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD23	4	0.49
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	7	0.49
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	7	0.49
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	7	0.49
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	7	0.49
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	7	0.49
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	7	0.49
(1,1225)	2:20:A:LEU:HD11	2:22:A:VAL:HB	20	0.48
(1,1225)	2:20:A:LEU:HD12	2:22:A:VAL:HB	20	0.48
(1,1225)	2:20:A:LEU:HD13	2:22:A:VAL:HB	20	0.48
(1,1225)	2:20:A:LEU:HD21	2:22:A:VAL:HB	20	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1225)	2:20:A:LEU:HD22	2:22:A:VAL:HB	20	0.48
(1,1225)	2:20:A:LEU:HD23	2:22:A:VAL:HB	20	0.48
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	8	0.48
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	8	0.48
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	8	0.48
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	8	0.48
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	8	0.48
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	8	0.48
(1,1223)	2:20:A:LEU:HD11	2:22:A:VAL:H	5	0.47
(1,1223)	2:20:A:LEU:HD12	2:22:A:VAL:H	5	0.47
(1,1223)	2:20:A:LEU:HD13	2:22:A:VAL:H	5	0.47
(1,1223)	2:20:A:LEU:HD21	2:22:A:VAL:H	5	0.47
(1,1223)	2:20:A:LEU:HD22	2:22:A:VAL:H	5	0.47
(1,1223)	2:20:A:LEU:HD23	2:22:A:VAL:H	5	0.47
(1,1225)	2:20:A:LEU:HD11	2:22:A:VAL:HB	16	0.45
(1,1225)	2:20:A:LEU:HD12	2:22:A:VAL:HB	16	0.45
(1,1225)	2:20:A:LEU:HD13	2:22:A:VAL:HB	16	0.45
(1,1225)	2:20:A:LEU:HD21	2:22:A:VAL:HB	16	0.45
(1,1225)	2:20:A:LEU:HD22	2:22:A:VAL:HB	16	0.45
(1,1225)	2:20:A:LEU:HD23	2:22:A:VAL:HB	16	0.45
(1,1225)	2:20:A:LEU:HD11	2:22:A:VAL:HB	3	0.44
(1,1225)	2:20:A:LEU:HD12	2:22:A:VAL:HB	3	0.44
(1,1225)	2:20:A:LEU:HD13	2:22:A:VAL:HB	3	0.44
(1,1225)	2:20:A:LEU:HD21	2:22:A:VAL:HB	3	0.44
(1,1225)	2:20:A:LEU:HD22	2:22:A:VAL:HB	3	0.44
(1,1225)	2:20:A:LEU:HD23	2:22:A:VAL:HB	3	0.44
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	9	0.44
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	9	0.44
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	9	0.44
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	9	0.44
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	9	0.44
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	9	0.44
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD11	15	0.43
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD12	15	0.43
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD13	15	0.43
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD21	15	0.43
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD22	15	0.43
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD23	15	0.43
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD11	15	0.43
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD12	15	0.43
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD13	15	0.43
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD21	15	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD22	15	0.43
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD23	15	0.43
(1,1225)	2:20:A:LEU:HD11	2:22:A:VAL:HB	9	0.43
(1,1225)	2:20:A:LEU:HD12	2:22:A:VAL:HB	9	0.43
(1,1225)	2:20:A:LEU:HD13	2:22:A:VAL:HB	9	0.43
(1,1225)	2:20:A:LEU:HD21	2:22:A:VAL:HB	9	0.43
(1,1225)	2:20:A:LEU:HD22	2:22:A:VAL:HB	9	0.43
(1,1225)	2:20:A:LEU:HD23	2:22:A:VAL:HB	9	0.43
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD11	7	0.43
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD12	7	0.43
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD13	7	0.43
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD21	7	0.43
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD22	7	0.43
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD23	7	0.43
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD11	3	0.42
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD12	3	0.42
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD13	3	0.42
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD21	3	0.42
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD22	3	0.42
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD23	3	0.42
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD11	3	0.42
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD12	3	0.42
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD13	3	0.42
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD21	3	0.42
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD22	3	0.42
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD23	3	0.42
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD11	19	0.41
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD12	19	0.41
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD13	19	0.41
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD21	19	0.41
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD22	19	0.41
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD23	19	0.41
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	10	0.41
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	10	0.41
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	10	0.41
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	10	0.41
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	10	0.41
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	10	0.41
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD11	2	0.4
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD12	2	0.4
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD13	2	0.4
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD21	2	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD22	2	0.4
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD23	2	0.4
(1,1224)	2:20:A:LEU:HD11	2:22:A:VAL:HA	20	0.38
(1,1224)	2:20:A:LEU:HD12	2:22:A:VAL:HA	20	0.38
(1,1224)	2:20:A:LEU:HD13	2:22:A:VAL:HA	20	0.38
(1,1224)	2:20:A:LEU:HD21	2:22:A:VAL:HA	20	0.38
(1,1224)	2:20:A:LEU:HD22	2:22:A:VAL:HA	20	0.38
(1,1224)	2:20:A:LEU:HD23	2:22:A:VAL:HA	20	0.38
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD11	16	0.38
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD12	16	0.38
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD13	16	0.38
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD21	16	0.38
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD22	16	0.38
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD23	16	0.38
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD11	16	0.38
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD12	16	0.38
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD13	16	0.38
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD21	16	0.38
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD22	16	0.38
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD23	16	0.38
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	4	0.38
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	4	0.38
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	4	0.38
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	4	0.38
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	4	0.38
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	4	0.38
(1,1225)	2:20:A:LEU:HD11	2:22:A:VAL:HB	17	0.37
(1,1225)	2:20:A:LEU:HD12	2:22:A:VAL:HB	17	0.37
(1,1225)	2:20:A:LEU:HD13	2:22:A:VAL:HB	17	0.37
(1,1225)	2:20:A:LEU:HD21	2:22:A:VAL:HB	17	0.37
(1,1225)	2:20:A:LEU:HD22	2:22:A:VAL:HB	17	0.37
(1,1225)	2:20:A:LEU:HD23	2:22:A:VAL:HB	17	0.37
(1,1223)	2:20:A:LEU:HD11	2:22:A:VAL:H	1	0.37
(1,1223)	2:20:A:LEU:HD12	2:22:A:VAL:H	1	0.37
(1,1223)	2:20:A:LEU:HD13	2:22:A:VAL:H	1	0.37
(1,1223)	2:20:A:LEU:HD21	2:22:A:VAL:H	1	0.37
(1,1223)	2:20:A:LEU:HD22	2:22:A:VAL:H	1	0.37
(1,1223)	2:20:A:LEU:HD23	2:22:A:VAL:H	1	0.37
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD11	7	0.37
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD12	7	0.37
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD13	7	0.37
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD21	7	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD22	7	0.37
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD23	7	0.37
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD11	7	0.37
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD12	7	0.37
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD13	7	0.37
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD21	7	0.37
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD22	7	0.37
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD23	7	0.37
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD11	10	0.36
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD12	10	0.36
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD13	10	0.36
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD21	10	0.36
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD22	10	0.36
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD23	10	0.36
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD11	10	0.36
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD12	10	0.36
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD13	10	0.36
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD21	10	0.36
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD22	10	0.36
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD23	10	0.36
(1,1225)	2:20:A:LEU:HD11	2:22:A:VAL:HB	15	0.35
(1,1225)	2:20:A:LEU:HD12	2:22:A:VAL:HB	15	0.35
(1,1225)	2:20:A:LEU:HD13	2:22:A:VAL:HB	15	0.35
(1,1225)	2:20:A:LEU:HD21	2:22:A:VAL:HB	15	0.35
(1,1225)	2:20:A:LEU:HD22	2:22:A:VAL:HB	15	0.35
(1,1225)	2:20:A:LEU:HD23	2:22:A:VAL:HB	15	0.35
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD11	10	0.35
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD12	10	0.35
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD13	10	0.35
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD21	10	0.35
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD22	10	0.35
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD23	10	0.35
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD11	6	0.34
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD12	6	0.34
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD13	6	0.34
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD21	6	0.34
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD22	6	0.34
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD23	6	0.34
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD11	9	0.34
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD12	9	0.34
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD13	9	0.34
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD21	9	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD22	9	0.34
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD23	9	0.34
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD11	5	0.33
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD12	5	0.33
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD13	5	0.33
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD21	5	0.33
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD22	5	0.33
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD23	5	0.33
(1,503)	1:147:B:LEU:HD11	1:148:B:LYS:HA	2	0.32
(1,503)	1:147:B:LEU:HD12	1:148:B:LYS:HA	2	0.32
(1,503)	1:147:B:LEU:HD13	1:148:B:LYS:HA	2	0.32
(1,503)	1:147:B:LEU:HD21	1:148:B:LYS:HA	2	0.32
(1,503)	1:147:B:LEU:HD22	1:148:B:LYS:HA	2	0.32
(1,503)	1:147:B:LEU:HD23	1:148:B:LYS:HA	2	0.32
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD11	10	0.32
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD12	10	0.32
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD13	10	0.32
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD21	10	0.32
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD22	10	0.32
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD23	10	0.32
(1,1224)	2:20:A:LEU:HD11	2:22:A:VAL:HA	3	0.31
(1,1224)	2:20:A:LEU:HD12	2:22:A:VAL:HA	3	0.31
(1,1224)	2:20:A:LEU:HD13	2:22:A:VAL:HA	3	0.31
(1,1224)	2:20:A:LEU:HD21	2:22:A:VAL:HA	3	0.31
(1,1224)	2:20:A:LEU:HD22	2:22:A:VAL:HA	3	0.31
(1,1224)	2:20:A:LEU:HD23	2:22:A:VAL:HA	3	0.31
(1,1223)	2:20:A:LEU:HD11	2:22:A:VAL:H	8	0.31
(1,1223)	2:20:A:LEU:HD12	2:22:A:VAL:H	8	0.31
(1,1223)	2:20:A:LEU:HD13	2:22:A:VAL:H	8	0.31
(1,1223)	2:20:A:LEU:HD21	2:22:A:VAL:H	8	0.31
(1,1223)	2:20:A:LEU:HD22	2:22:A:VAL:H	8	0.31
(1,1223)	2:20:A:LEU:HD23	2:22:A:VAL:H	8	0.31
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD11	12	0.31
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD12	12	0.31
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD13	12	0.31
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD21	12	0.31
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD22	12	0.31
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD23	12	0.31
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD11	12	0.31
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD12	12	0.31
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD13	12	0.31
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD21	12	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD22	12	0.31
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD23	12	0.31
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	11	0.31
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	11	0.31
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	11	0.31
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	11	0.31
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	11	0.31
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	11	0.31
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD11	2	0.3
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD12	2	0.3
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD13	2	0.3
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD21	2	0.3
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD22	2	0.3
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD23	2	0.3
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD11	2	0.3
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD12	2	0.3
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD13	2	0.3
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD21	2	0.3
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD22	2	0.3
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD23	2	0.3
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD11	1	0.29
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD12	1	0.29
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD13	1	0.29
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD21	1	0.29
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD22	1	0.29
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD23	1	0.29
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD11	2	0.29
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD12	2	0.29
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD13	2	0.29
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD21	2	0.29
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD22	2	0.29
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD23	2	0.29
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD11	2	0.29
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD12	2	0.29
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD13	2	0.29
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD21	2	0.29
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD22	2	0.29
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD23	2	0.29
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD11	7	0.28
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD12	7	0.28
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD13	7	0.28
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD21	7	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD22	7	0.28
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD23	7	0.28
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD11	7	0.28
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD12	7	0.28
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD13	7	0.28
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD21	7	0.28
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD22	7	0.28
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD23	7	0.28
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD11	12	0.28
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD12	12	0.28
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD13	12	0.28
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD21	12	0.28
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD22	12	0.28
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD23	12	0.28
(1,1223)	2:20:A:LEU:HD11	2:22:A:VAL:H	20	0.27
(1,1223)	2:20:A:LEU:HD12	2:22:A:VAL:H	20	0.27
(1,1223)	2:20:A:LEU:HD13	2:22:A:VAL:H	20	0.27
(1,1223)	2:20:A:LEU:HD21	2:22:A:VAL:H	20	0.27
(1,1223)	2:20:A:LEU:HD22	2:22:A:VAL:H	20	0.27
(1,1223)	2:20:A:LEU:HD23	2:22:A:VAL:H	20	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD11	4	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD12	4	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD13	4	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD21	4	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD22	4	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD23	4	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD11	4	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD12	4	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD13	4	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD21	4	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD22	4	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD23	4	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD11	11	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD12	11	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD13	11	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD21	11	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD22	11	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD23	11	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD11	11	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD12	11	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD13	11	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD21	11	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD22	11	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD23	11	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD11	16	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD12	16	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD13	16	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD21	16	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD22	16	0.27
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD23	16	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD11	16	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD12	16	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD13	16	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD21	16	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD22	16	0.27
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD23	16	0.27
(1,1223)	2:20:A:LEU:HD11	2:22:A:VAL:H	3	0.26
(1,1223)	2:20:A:LEU:HD12	2:22:A:VAL:H	3	0.26
(1,1223)	2:20:A:LEU:HD13	2:22:A:VAL:H	3	0.26
(1,1223)	2:20:A:LEU:HD21	2:22:A:VAL:H	3	0.26
(1,1223)	2:20:A:LEU:HD22	2:22:A:VAL:H	3	0.26
(1,1223)	2:20:A:LEU:HD23	2:22:A:VAL:H	3	0.26
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD11	17	0.25
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD12	17	0.25
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD13	17	0.25
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD21	17	0.25
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD22	17	0.25
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD23	17	0.25
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD11	17	0.25
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD12	17	0.25
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD13	17	0.25
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD21	17	0.25
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD22	17	0.25
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD23	17	0.25
(1,405)	1:137:B:SER:HA	1:138:B:ARG:H	10	0.25
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	7	0.24
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	7	0.24
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	7	0.24
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	7	0.24
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	7	0.24
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	7	0.24
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	7	0.24
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	7	0.24
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	7	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	7	0.24
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	7	0.24
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	7	0.24
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD11	12	0.24
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD12	12	0.24
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD13	12	0.24
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD21	12	0.24
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD22	12	0.24
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD23	12	0.24
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD11	12	0.24
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD12	12	0.24
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD13	12	0.24
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD21	12	0.24
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD22	12	0.24
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD23	12	0.24
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD11	13	0.24
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD12	13	0.24
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD13	13	0.24
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD21	13	0.24
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD22	13	0.24
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD23	13	0.24
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD11	13	0.24
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD12	13	0.24
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD13	13	0.24
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD21	13	0.24
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD22	13	0.24
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD23	13	0.24
(1,1226)	2:20:A:LEU:HD11	2:22:A:VAL:HG11	7	0.23
(1,1226)	2:20:A:LEU:HD11	2:22:A:VAL:HG12	7	0.23
(1,1226)	2:20:A:LEU:HD11	2:22:A:VAL:HG13	7	0.23
(1,1226)	2:20:A:LEU:HD12	2:22:A:VAL:HG11	7	0.23
(1,1226)	2:20:A:LEU:HD12	2:22:A:VAL:HG12	7	0.23
(1,1226)	2:20:A:LEU:HD12	2:22:A:VAL:HG13	7	0.23
(1,1226)	2:20:A:LEU:HD13	2:22:A:VAL:HG11	7	0.23
(1,1226)	2:20:A:LEU:HD13	2:22:A:VAL:HG12	7	0.23
(1,1226)	2:20:A:LEU:HD13	2:22:A:VAL:HG13	7	0.23
(1,1226)	2:20:A:LEU:HD21	2:22:A:VAL:HG11	7	0.23
(1,1226)	2:20:A:LEU:HD21	2:22:A:VAL:HG12	7	0.23
(1,1226)	2:20:A:LEU:HD21	2:22:A:VAL:HG13	7	0.23
(1,1226)	2:20:A:LEU:HD22	2:22:A:VAL:HG11	7	0.23
(1,1226)	2:20:A:LEU:HD22	2:22:A:VAL:HG12	7	0.23
(1,1226)	2:20:A:LEU:HD22	2:22:A:VAL:HG13	7	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1226)	2:20:A:LEU:HD23	2:22:A:VAL:HG11	7	0.23
(1,1226)	2:20:A:LEU:HD23	2:22:A:VAL:HG12	7	0.23
(1,1226)	2:20:A:LEU:HD23	2:22:A:VAL:HG13	7	0.23
(1,1224)	2:20:A:LEU:HD11	2:22:A:VAL:HA	16	0.23
(1,1224)	2:20:A:LEU:HD12	2:22:A:VAL:HA	16	0.23
(1,1224)	2:20:A:LEU:HD13	2:22:A:VAL:HA	16	0.23
(1,1224)	2:20:A:LEU:HD21	2:22:A:VAL:HA	16	0.23
(1,1224)	2:20:A:LEU:HD22	2:22:A:VAL:HA	16	0.23
(1,1224)	2:20:A:LEU:HD23	2:22:A:VAL:HA	16	0.23
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD11	18	0.23
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD12	18	0.23
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD13	18	0.23
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD21	18	0.23
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD22	18	0.23
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD23	18	0.23
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD11	18	0.23
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD12	18	0.23
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD13	18	0.23
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD21	18	0.23
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD22	18	0.23
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD23	18	0.23
(1,1867)	2:44:A:ASN:HB3	2:45:A:ILE:HA	10	0.22
(1,1224)	2:20:A:LEU:HD11	2:22:A:VAL:HA	9	0.22
(1,1224)	2:20:A:LEU:HD12	2:22:A:VAL:HA	9	0.22
(1,1224)	2:20:A:LEU:HD13	2:22:A:VAL:HA	9	0.22
(1,1224)	2:20:A:LEU:HD21	2:22:A:VAL:HA	9	0.22
(1,1224)	2:20:A:LEU:HD22	2:22:A:VAL:HA	9	0.22
(1,1224)	2:20:A:LEU:HD23	2:22:A:VAL:HA	9	0.22
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD11	18	0.22
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD12	18	0.22
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD13	18	0.22
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD21	18	0.22
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD22	18	0.22
(1,493)	1:146:B:ALA:HA	1:147:B:LEU:HD23	18	0.22
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	16	0.22
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	16	0.22
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	16	0.22
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	16	0.22
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	16	0.22
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	16	0.22
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG2	10	0.21
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG3	10	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1867)	2:44:A:ASN:HB3	2:45:A:ILE:HA	6	0.21
(1,1867)	2:44:A:ASN:HB3	2:45:A:ILE:HA	12	0.21
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD11	16	0.21
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD12	16	0.21
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD13	16	0.21
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD21	16	0.21
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD22	16	0.21
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD23	16	0.21
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD11	5	0.21
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD12	5	0.21
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD13	5	0.21
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD21	5	0.21
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD22	5	0.21
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD23	5	0.21
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD11	5	0.21
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD12	5	0.21
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD13	5	0.21
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD21	5	0.21
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD22	5	0.21
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD23	5	0.21
(1,1867)	2:44:A:ASN:HB3	2:45:A:ILE:HA	4	0.2
(1,1867)	2:44:A:ASN:HB3	2:45:A:ILE:HA	14	0.2
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	9	0.2
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	14	0.2
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	14	0.2
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	14	0.2
(1,1227)	2:20:A:LEU:HG	2:42:A:GLY:H	2	0.2
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD11	13	0.2
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD12	13	0.2
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD13	13	0.2
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD21	13	0.2
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD22	13	0.2
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD23	13	0.2
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD11	8	0.2
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD12	8	0.2
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD13	8	0.2
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD21	8	0.2
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD22	8	0.2
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD23	8	0.2
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD11	8	0.2
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD12	8	0.2
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD13	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD21	8	0.2
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD22	8	0.2
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD23	8	0.2
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD11	19	0.2
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD12	19	0.2
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD13	19	0.2
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD21	19	0.2
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD22	19	0.2
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD23	19	0.2
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD11	19	0.2
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD12	19	0.2
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD13	19	0.2
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD21	19	0.2
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD22	19	0.2
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD23	19	0.2
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG2	6	0.19
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG3	6	0.19
(1,1227)	2:20:A:LEU:HG	2:42:A:GLY:H	11	0.19
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	5	0.19
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	5	0.19
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	5	0.19
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	5	0.19
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	5	0.19
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	5	0.19
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	5	0.19
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	5	0.19
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	5	0.19
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	5	0.19
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	5	0.19
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	5	0.19
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	8	0.19
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	8	0.19
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	8	0.19
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	8	0.19
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	8	0.19
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	8	0.19
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	8	0.19
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	8	0.19
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	8	0.19
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	8	0.19
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	8	0.19
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	8	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1867)	2:44:A:ASN:HB3	2:45:A:ILE:HA	13	0.18
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	14	0.18
(1,1227)	2:20:A:LEU:HG	2:42:A:GLY:H	9	0.18
(1,574)	1:154:B:TYR:HD1	1:155:B:GLU:HA	12	0.18
(1,574)	1:154:B:TYR:HD2	1:155:B:GLU:HA	12	0.18
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	2	0.18
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	2	0.18
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	2	0.18
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	2	0.18
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	2	0.18
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	2	0.18
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	2	0.18
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	2	0.18
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	2	0.18
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	2	0.18
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	2	0.18
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	2	0.18
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	3	0.18
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	3	0.18
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	3	0.18
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	3	0.18
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	3	0.18
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	3	0.18
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	3	0.18
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	3	0.18
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	3	0.18
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	3	0.18
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	3	0.18
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	3	0.18
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	15	0.17
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	2	0.17
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	2	0.17
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	2	0.17
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	5	0.17
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	5	0.17
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	5	0.17
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	8	0.17
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	8	0.17
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	8	0.17
(1,1227)	2:20:A:LEU:HG	2:42:A:GLY:H	15	0.17
(1,1225)	2:20:A:LEU:HD11	2:22:A:VAL:HB	6	0.17
(1,1225)	2:20:A:LEU:HD12	2:22:A:VAL:HB	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1225)	2:20:A:LEU:HD13	2:22:A:VAL:HB	6	0.17
(1,1225)	2:20:A:LEU:HD21	2:22:A:VAL:HB	6	0.17
(1,1225)	2:20:A:LEU:HD22	2:22:A:VAL:HB	6	0.17
(1,1225)	2:20:A:LEU:HD23	2:22:A:VAL:HB	6	0.17
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	1	0.17
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	1	0.17
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	1	0.17
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	1	0.17
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	1	0.17
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	1	0.17
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	1	0.17
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	1	0.17
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	1	0.17
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	1	0.17
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	1	0.17
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	1	0.17
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	20	0.17
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	20	0.17
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	20	0.17
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	20	0.17
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	20	0.17
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	20	0.17
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	20	0.17
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	20	0.17
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	20	0.17
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	20	0.17
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	20	0.17
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	20	0.17
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG2	13	0.16
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG3	13	0.16
(1,1867)	2:44:A:ASN:HB3	2:45:A:ILE:HA	18	0.16
(1,1867)	2:44:A:ASN:HB3	2:45:A:ILE:HA	19	0.16
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	3	0.16
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	8	0.16
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	11	0.16
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	17	0.16
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	11	0.16
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	11	0.16
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	11	0.16
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	19	0.16
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	19	0.16
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	19	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1281)	2:21:A:THR:H	2:22:A:VAL:H	12	0.16
(1,1281)	2:21:A:THR:H	2:22:A:VAL:H	14	0.16
(1,1227)	2:20:A:LEU:HG	2:42:A:GLY:H	16	0.16
(1,574)	1:154:B:TYR:HD1	1:155:B:GLU:HA	3	0.16
(1,574)	1:154:B:TYR:HD2	1:155:B:GLU:HA	3	0.16
(1,574)	1:154:B:TYR:HD1	1:155:B:GLU:HA	4	0.16
(1,574)	1:154:B:TYR:HD2	1:155:B:GLU:HA	4	0.16
(1,574)	1:154:B:TYR:HD1	1:155:B:GLU:HA	16	0.16
(1,574)	1:154:B:TYR:HD2	1:155:B:GLU:HA	16	0.16
(1,503)	1:147:B:LEU:HD11	1:148:B:LYS:HA	6	0.16
(1,503)	1:147:B:LEU:HD12	1:148:B:LYS:HA	6	0.16
(1,503)	1:147:B:LEU:HD13	1:148:B:LYS:HA	6	0.16
(1,503)	1:147:B:LEU:HD21	1:148:B:LYS:HA	6	0.16
(1,503)	1:147:B:LEU:HD22	1:148:B:LYS:HA	6	0.16
(1,503)	1:147:B:LEU:HD23	1:148:B:LYS:HA	6	0.16
(1,451)	1:140:B:LEU:HD11	1:141:B:PRO:HD3	18	0.16
(1,451)	1:140:B:LEU:HD12	1:141:B:PRO:HD3	18	0.16
(1,451)	1:140:B:LEU:HD13	1:141:B:PRO:HD3	18	0.16
(1,451)	1:140:B:LEU:HD21	1:141:B:PRO:HD3	18	0.16
(1,451)	1:140:B:LEU:HD22	1:141:B:PRO:HD3	18	0.16
(1,451)	1:140:B:LEU:HD23	1:141:B:PRO:HD3	18	0.16
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD11	12	0.16
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD12	12	0.16
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD13	12	0.16
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD21	12	0.16
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD22	12	0.16
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD23	12	0.16
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD11	2	0.16
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD12	2	0.16
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD13	2	0.16
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD21	2	0.16
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD22	2	0.16
(1,427)	1:139:B:PRO:HA	1:140:B:LEU:HD23	2	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	4	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	4	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	4	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	4	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	4	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	4	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	4	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	4	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	4	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	4	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	4	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	11	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	11	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	11	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	11	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	11	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	11	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	11	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	11	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	11	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	11	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	11	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	11	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	19	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	19	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	19	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	19	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	19	0.16
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	19	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	19	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	19	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	19	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	19	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	19	0.16
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	19	0.16
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG2	14	0.15
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG3	14	0.15
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD11	20	0.15
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD12	20	0.15
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD13	20	0.15
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD21	20	0.15
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD22	20	0.15
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD23	20	0.15
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD11	20	0.15
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD12	20	0.15
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD13	20	0.15
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD21	20	0.15
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD22	20	0.15
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD23	20	0.15
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	2	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	4	0.15
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	10	0.15
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	12	0.15
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	19	0.15
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	7	0.15
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	7	0.15
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	7	0.15
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	12	0.15
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	12	0.15
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	12	0.15
(1,1281)	2:21:A:THR:H	2:22:A:VAL:H	6	0.15
(1,978)	2:9:A:TYR:H	2:57:A:VAL:HA	3	0.15
(1,630)	2:3:A:THR:H	2:29:A:THR:HB	13	0.15
(1,574)	1:154:B:TYR:HD1	1:155:B:GLU:HA	10	0.15
(1,574)	1:154:B:TYR:HD2	1:155:B:GLU:HA	10	0.15
(1,574)	1:154:B:TYR:HD1	1:155:B:GLU:HA	15	0.15
(1,574)	1:154:B:TYR:HD2	1:155:B:GLU:HA	15	0.15
(1,432)	1:140:B:LEU:H	1:140:B:LEU:HB2	18	0.15
(1,432)	1:140:B:LEU:H	1:140:B:LEU:HB3	18	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	9	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	9	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	9	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	9	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	9	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	9	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	9	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	9	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	9	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	9	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	9	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	9	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	10	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	10	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	10	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	10	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	10	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	10	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	10	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	10	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	10	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	10	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	10	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	15	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	15	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	15	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	15	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	15	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	15	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	15	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	15	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	15	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	15	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	15	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	15	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	16	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	16	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	16	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	16	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	16	0.15
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	16	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	16	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	16	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	16	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	16	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	16	0.15
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	16	0.15
(1,1919)	2:45:A:ILE:HD11	2:46:A:LYS:HE2	7	0.14
(1,1919)	2:45:A:ILE:HD11	2:46:A:LYS:HE3	7	0.14
(1,1919)	2:45:A:ILE:HD12	2:46:A:LYS:HE2	7	0.14
(1,1919)	2:45:A:ILE:HD12	2:46:A:LYS:HE3	7	0.14
(1,1919)	2:45:A:ILE:HD13	2:46:A:LYS:HE2	7	0.14
(1,1919)	2:45:A:ILE:HD13	2:46:A:LYS:HE3	7	0.14
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG2	4	0.14
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG3	4	0.14
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	6	0.14
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	13	0.14
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	16	0.14
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	4	0.14
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	4	0.14
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	4	0.14
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	13	0.14
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	13	0.14
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	13	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	16	0.14
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	16	0.14
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	16	0.14
(1,1281)	2:21:A:THR:H	2:22:A:VAL:H	2	0.14
(1,1281)	2:21:A:THR:H	2:22:A:VAL:H	5	0.14
(1,1281)	2:21:A:THR:H	2:22:A:VAL:H	13	0.14
(1,1281)	2:21:A:THR:H	2:22:A:VAL:H	19	0.14
(1,1227)	2:20:A:LEU:HG	2:42:A:GLY:H	3	0.14
(1,978)	2:9:A:TYR:H	2:57:A:VAL:HA	9	0.14
(1,587)	1:156:B:LEU:HA	1:157:B:SER:H	13	0.14
(1,574)	1:154:B:TYR:HD1	1:155:B:GLU:HA	20	0.14
(1,574)	1:154:B:TYR:HD2	1:155:B:GLU:HA	20	0.14
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD11	14	0.14
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD12	14	0.14
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD13	14	0.14
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD21	14	0.14
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD22	14	0.14
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD23	14	0.14
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD11	14	0.14
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD12	14	0.14
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD13	14	0.14
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD21	14	0.14
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD22	14	0.14
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD23	14	0.14
(1,2176)	2:62:A:SER:H	2:62:A:SER:HB2	1	0.13
(1,2176)	2:62:A:SER:H	2:62:A:SER:HB3	1	0.13
(1,1463)	2:29:A:THR:HB	2:30:A:ILE:HA	17	0.13
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	6	0.13
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	6	0.13
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	6	0.13
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	18	0.13
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	18	0.13
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	18	0.13
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	20	0.13
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	20	0.13
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	20	0.13
(1,1227)	2:20:A:LEU:HG	2:42:A:GLY:H	8	0.13
(1,1223)	2:20:A:LEU:HD11	2:22:A:VAL:H	9	0.13
(1,1223)	2:20:A:LEU:HD12	2:22:A:VAL:H	9	0.13
(1,1223)	2:20:A:LEU:HD13	2:22:A:VAL:H	9	0.13
(1,1223)	2:20:A:LEU:HD21	2:22:A:VAL:H	9	0.13
(1,1223)	2:20:A:LEU:HD22	2:22:A:VAL:H	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1223)	2:20:A:LEU:HD23	2:22:A:VAL:H	9	0.13
(1,1219)	2:20:A:LEU:HD11	2:21:A:THR:HB	7	0.13
(1,1219)	2:20:A:LEU:HD12	2:21:A:THR:HB	7	0.13
(1,1219)	2:20:A:LEU:HD13	2:21:A:THR:HB	7	0.13
(1,1219)	2:20:A:LEU:HD21	2:21:A:THR:HB	7	0.13
(1,1219)	2:20:A:LEU:HD22	2:21:A:THR:HB	7	0.13
(1,1219)	2:20:A:LEU:HD23	2:21:A:THR:HB	7	0.13
(1,1186)	2:19:A:GLU:HB3	2:21:A:THR:HA	8	0.13
(1,574)	1:154:B:TYR:HD1	1:155:B:GLU:HA	11	0.13
(1,574)	1:154:B:TYR:HD2	1:155:B:GLU:HA	11	0.13
(1,574)	1:154:B:TYR:HD1	1:155:B:GLU:HA	18	0.13
(1,574)	1:154:B:TYR:HD2	1:155:B:GLU:HA	18	0.13
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD11	11	0.13
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD12	11	0.13
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD13	11	0.13
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD21	11	0.13
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD22	11	0.13
(1,534)	1:150:B:HIS:HB2	1:151:B:LEU:HD23	11	0.13
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD11	11	0.13
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD12	11	0.13
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD13	11	0.13
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD21	11	0.13
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD22	11	0.13
(1,534)	1:150:B:HIS:HB3	1:151:B:LEU:HD23	11	0.13
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	13	0.13
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	13	0.13
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	13	0.13
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	13	0.13
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	13	0.13
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	13	0.13
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	13	0.13
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	13	0.13
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	13	0.13
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	13	0.13
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	13	0.13
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	13	0.13
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD11	1	0.13
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD12	1	0.13
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD13	1	0.13
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD21	1	0.13
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD22	1	0.13
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD23	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD11	1	0.13
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD12	1	0.13
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD13	1	0.13
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD21	1	0.13
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD22	1	0.13
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD23	1	0.13
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD1	3	0.13
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD2	3	0.13
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD1	11	0.13
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD2	11	0.13
(1,1945)	2:46:A:LYS:HB2	2:47:A:GLY:H	2	0.12
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	1	0.12
(1,1463)	2:29:A:THR:HB	2:30:A:ILE:HA	10	0.12
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	1	0.12
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	1	0.12
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	1	0.12
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	3	0.12
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	3	0.12
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	3	0.12
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	9	0.12
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	9	0.12
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	9	0.12
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	10	0.12
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	10	0.12
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	10	0.12
(1,1451)	2:28:A:ILE:HG21	2:47:A:GLY:H	15	0.12
(1,1451)	2:28:A:ILE:HG22	2:47:A:GLY:H	15	0.12
(1,1451)	2:28:A:ILE:HG23	2:47:A:GLY:H	15	0.12
(1,1348)	2:23:A:ASN:H	2:28:A:ILE:HD11	17	0.12
(1,1348)	2:23:A:ASN:H	2:28:A:ILE:HD12	17	0.12
(1,1348)	2:23:A:ASN:H	2:28:A:ILE:HD13	17	0.12
(1,1281)	2:21:A:THR:H	2:22:A:VAL:H	20	0.12
(1,1227)	2:20:A:LEU:HG	2:42:A:GLY:H	1	0.12
(1,1227)	2:20:A:LEU:HG	2:42:A:GLY:H	14	0.12
(1,1186)	2:19:A:GLU:HB3	2:21:A:THR:HA	19	0.12
(1,978)	2:9:A:TYR:H	2:57:A:VAL:HA	14	0.12
(1,978)	2:9:A:TYR:H	2:57:A:VAL:HA	16	0.12
(1,574)	1:154:B:TYR:HD1	1:155:B:GLU:HA	5	0.12
(1,574)	1:154:B:TYR:HD2	1:155:B:GLU:HA	5	0.12
(1,574)	1:154:B:TYR:HD1	1:155:B:GLU:HA	14	0.12
(1,574)	1:154:B:TYR:HD2	1:155:B:GLU:HA	14	0.12
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	6	0.12
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	6	0.12
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	6	0.12
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	6	0.12
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	6	0.12
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	6	0.12
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	6	0.12
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	6	0.12
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	6	0.12
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	6	0.12
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	6	0.12
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	12	0.12
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	12	0.12
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	12	0.12
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	12	0.12
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	12	0.12
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	12	0.12
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	12	0.12
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	12	0.12
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	12	0.12
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	12	0.12
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	12	0.12
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	12	0.12
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD11	20	0.12
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD12	20	0.12
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD13	20	0.12
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD21	20	0.12
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD22	20	0.12
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD23	20	0.12
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD11	20	0.12
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD12	20	0.12
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD13	20	0.12
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD21	20	0.12
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD22	20	0.12
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD23	20	0.12
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD1	1	0.12
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD2	1	0.12
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD1	6	0.12
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD2	6	0.12
(1,2100)	2:57:A:VAL:H	2:58:A:GLU:HB3	4	0.11
(1,2067)	2:54:A:THR:HG21	2:57:A:VAL:H	4	0.11
(1,2067)	2:54:A:THR:HG22	2:57:A:VAL:H	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2067)	2:54:A:THR:HG23	2:57:A:VAL:H	4	0.11
(1,2067)	2:54:A:THR:HG21	2:57:A:VAL:H	17	0.11
(1,2067)	2:54:A:THR:HG22	2:57:A:VAL:H	17	0.11
(1,2067)	2:54:A:THR:HG23	2:57:A:VAL:H	17	0.11
(1,1952)	2:46:A:LYS:HG2	2:48:A:GLU:HA	19	0.11
(1,1952)	2:46:A:LYS:HG3	2:48:A:GLU:HA	19	0.11
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG2	12	0.11
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG3	12	0.11
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG2	18	0.11
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG3	18	0.11
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG2	19	0.11
(1,1871)	2:44:A:ASN:H	2:46:A:LYS:HG3	19	0.11
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD11	11	0.11
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD12	11	0.11
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD13	11	0.11
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD21	11	0.11
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD22	11	0.11
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD23	11	0.11
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD11	11	0.11
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD12	11	0.11
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD13	11	0.11
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD21	11	0.11
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD22	11	0.11
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD23	11	0.11
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD11	19	0.11
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD12	19	0.11
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD13	19	0.11
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD21	19	0.11
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD22	19	0.11
(1,1808)	2:41:A:GLU:HG2	2:51:A:LEU:HD23	19	0.11
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD11	19	0.11
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD12	19	0.11
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD13	19	0.11
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD21	19	0.11
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD22	19	0.11
(1,1808)	2:41:A:GLU:HG3	2:51:A:LEU:HD23	19	0.11
(1,1636)	2:35:A:VAL:HB	2:39:A:TRP:H	7	0.11
(1,1611)	2:34:A:ASP:H	2:35:A:VAL:HA	17	0.11
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	5	0.11
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	7	0.11
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	18	0.11
(1,1591)	2:32:A:ASN:HB2	2:42:A:GLY:H	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1463)	2:29:A:THR:HB	2:30:A:ILE:HA	13	0.11
(1,1348)	2:23:A:ASN:H	2:28:A:ILE:HD11	12	0.11
(1,1348)	2:23:A:ASN:H	2:28:A:ILE:HD12	12	0.11
(1,1348)	2:23:A:ASN:H	2:28:A:ILE:HD13	12	0.11
(1,1348)	2:23:A:ASN:H	2:28:A:ILE:HD11	19	0.11
(1,1348)	2:23:A:ASN:H	2:28:A:ILE:HD12	19	0.11
(1,1348)	2:23:A:ASN:H	2:28:A:ILE:HD13	19	0.11
(1,1344)	2:23:A:ASN:HA	2:26:A:GLU:HB2	15	0.11
(1,1281)	2:21:A:THR:H	2:22:A:VAL:H	3	0.11
(1,1281)	2:21:A:THR:H	2:22:A:VAL:H	7	0.11
(1,1281)	2:21:A:THR:H	2:22:A:VAL:H	11	0.11
(1,1227)	2:20:A:LEU:HG	2:42:A:GLY:H	17	0.11
(1,1223)	2:20:A:LEU:HD11	2:22:A:VAL:H	16	0.11
(1,1223)	2:20:A:LEU:HD12	2:22:A:VAL:H	16	0.11
(1,1223)	2:20:A:LEU:HD13	2:22:A:VAL:H	16	0.11
(1,1223)	2:20:A:LEU:HD21	2:22:A:VAL:H	16	0.11
(1,1223)	2:20:A:LEU:HD22	2:22:A:VAL:H	16	0.11
(1,1223)	2:20:A:LEU:HD23	2:22:A:VAL:H	16	0.11
(1,1186)	2:19:A:GLU:HB3	2:21:A:THR:HA	1	0.11
(1,978)	2:9:A:TYR:H	2:57:A:VAL:HA	2	0.11
(1,978)	2:9:A:TYR:H	2:57:A:VAL:HA	11	0.11
(1,630)	2:3:A:THR:H	2:29:A:THR:HB	1	0.11
(1,630)	2:3:A:THR:H	2:29:A:THR:HB	3	0.11
(1,630)	2:3:A:THR:H	2:29:A:THR:HB	9	0.11
(1,630)	2:3:A:THR:H	2:29:A:THR:HB	15	0.11
(1,630)	2:3:A:THR:H	2:29:A:THR:HB	17	0.11
(1,574)	1:154:B:TYR:HD1	1:155:B:GLU:HA	7	0.11
(1,574)	1:154:B:TYR:HD2	1:155:B:GLU:HA	7	0.11
(1,574)	1:154:B:TYR:HD1	1:155:B:GLU:HA	8	0.11
(1,574)	1:154:B:TYR:HD2	1:155:B:GLU:HA	8	0.11
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD11	18	0.11
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD12	18	0.11
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD13	18	0.11
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD21	18	0.11
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD22	18	0.11
(1,527)	1:150:B:HIS:HA	1:151:B:LEU:HD23	18	0.11
(1,487)	1:145:B:GLN:HB2	1:146:B:ALA:H	11	0.11
(1,487)	1:145:B:GLN:HB3	1:146:B:ALA:H	11	0.11
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD11	11	0.11
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD12	11	0.11
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD13	11	0.11
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD21	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD22	11	0.11
(1,429)	1:139:B:PRO:HB2	1:140:B:LEU:HD23	11	0.11
(1,386)	1:131:B:GLY:HA2	1:132:B:GLN:HB2	5	0.11
(1,386)	1:131:B:GLY:HA2	1:132:B:GLN:HB3	5	0.11
(1,386)	1:131:B:GLY:HA3	1:132:B:GLN:HB2	5	0.11
(1,386)	1:131:B:GLY:HA3	1:132:B:GLN:HB3	5	0.11
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	18	0.11
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	18	0.11
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	18	0.11
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	18	0.11
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	18	0.11
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	18	0.11
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	18	0.11
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	18	0.11
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	18	0.11
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	18	0.11
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	18	0.11
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	18	0.11
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD11	10	0.11
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD12	10	0.11
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD13	10	0.11
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD21	10	0.11
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD22	10	0.11
(1,121)	1:118:B:PHE:HE1	2:51:A:LEU:HD23	10	0.11
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD11	10	0.11
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD12	10	0.11
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD13	10	0.11
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD21	10	0.11
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD22	10	0.11
(1,121)	1:118:B:PHE:HE2	2:51:A:LEU:HD23	10	0.11
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD1	15	0.11
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD2	15	0.11
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD1	17	0.11
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD2	17	0.11
(1,13)	1:116:B:VAL:HA	1:117:B:ASN:HB2	4	0.11
(1,2172)	2:61:A:PRO:HB2	2:62:A:SER:HB2	8	0.1
(1,2172)	2:61:A:PRO:HB2	2:62:A:SER:HB3	8	0.1
(1,2067)	2:54:A:THR:HG21	2:57:A:VAL:H	8	0.1
(1,2067)	2:54:A:THR:HG22	2:57:A:VAL:H	8	0.1
(1,2067)	2:54:A:THR:HG23	2:57:A:VAL:H	8	0.1
(1,1463)	2:29:A:THR:HB	2:30:A:ILE:HA	2	0.1
(1,1463)	2:29:A:THR:HB	2:30:A:ILE:HA	8	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1459)	2:29:A:THR:HA	2:30:A:ILE:HG12	1	0.1
(1,1348)	2:23:A:ASN:H	2:28:A:ILE:HD11	16	0.1
(1,1348)	2:23:A:ASN:H	2:28:A:ILE:HD12	16	0.1
(1,1348)	2:23:A:ASN:H	2:28:A:ILE:HD13	16	0.1
(1,1227)	2:20:A:LEU:HG	2:42:A:GLY:H	5	0.1
(1,1227)	2:20:A:LEU:HG	2:42:A:GLY:H	7	0.1
(1,1227)	2:20:A:LEU:HG	2:42:A:GLY:H	10	0.1
(1,1186)	2:19:A:GLU:HB3	2:21:A:THR:HA	5	0.1
(1,1139)	2:15:A:PRO:HA	2:16:A:GLY:H	10	0.1
(1,978)	2:9:A:TYR:H	2:57:A:VAL:HA	7	0.1
(1,774)	2:6:A:ARG:HE	2:25:A:GLY:HA3	16	0.1
(1,574)	1:154:B:TYR:HD1	1:155:B:GLU:HA	13	0.1
(1,574)	1:154:B:TYR:HD2	1:155:B:GLU:HA	13	0.1
(1,574)	1:154:B:TYR:HD1	1:155:B:GLU:HA	19	0.1
(1,574)	1:154:B:TYR:HD2	1:155:B:GLU:HA	19	0.1
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG11	14	0.1
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG12	14	0.1
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG13	14	0.1
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG21	14	0.1
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG22	14	0.1
(1,122)	1:118:B:PHE:HD1	2:52:A:VAL:HG23	14	0.1
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG11	14	0.1
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG12	14	0.1
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG13	14	0.1
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG21	14	0.1
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG22	14	0.1
(1,122)	1:118:B:PHE:HD2	2:52:A:VAL:HG23	14	0.1
(1,42)	1:117:B:ASN:HD22	1:119:B:LYS:HA	1	0.1
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD1	5	0.1
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD2	5	0.1
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD1	8	0.1
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD2	8	0.1
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD1	18	0.1
(1,37)	1:117:B:ASN:HB3	1:118:B:PHE:HD2	18	0.1

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

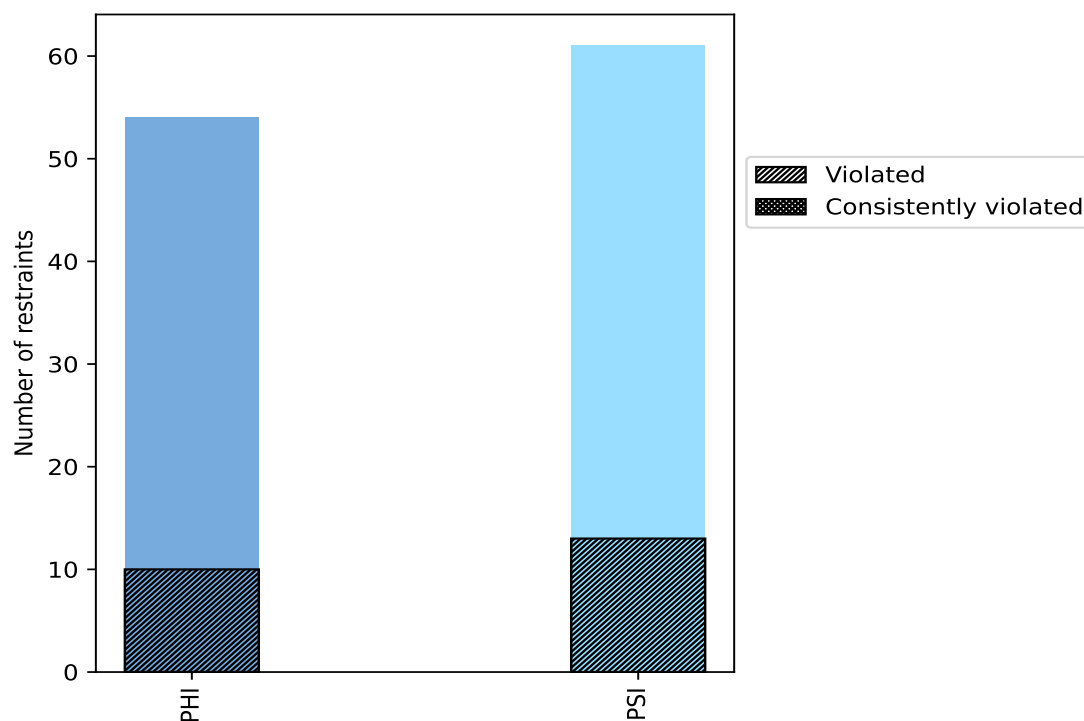
10.1 Summary of dihedral-angle violations [i](#)

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	54	47.0	10	18.5	8.7	0	0.0	0.0
PSI	61	53.0	13	21.3	11.3	0	0.0	0.0
Total	115	100.0	23	20.0	20.0	0	0.0	0.0

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

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



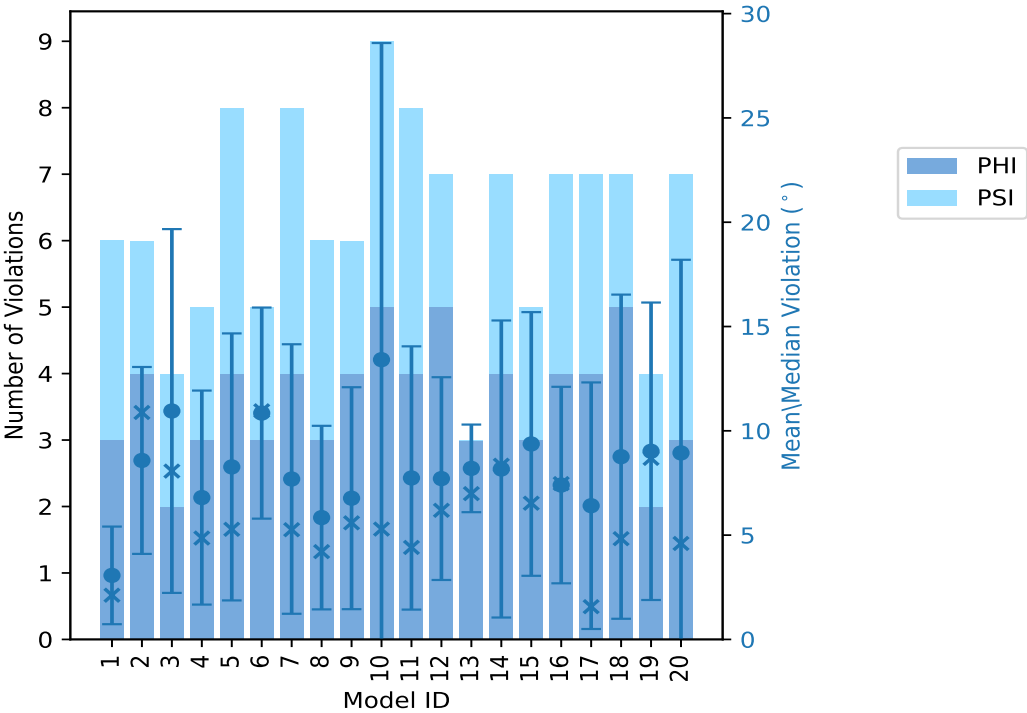
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PHI	PSI	Total				
1	3	3	6	3.07	8.13	2.34	2.12
2	4	2	6	8.58	12.53	4.48	10.88
3	2	2	4	10.95	24.59	8.72	8.07
4	3	2	5	6.8	16.42	5.13	4.86
5	4	4	8	8.27	20.49	6.4	5.28
6	3	2	5	10.85	16.56	5.06	10.96
7	4	4	8	7.69	21.71	6.46	5.26
8	3	3	6	5.84	15.3	4.4	4.21
9	4	2	6	6.77	16.36	5.32	5.59
10	5	4	9	13.41	45.13	15.18	5.29
11	4	4	8	7.74	19.13	6.31	4.41
12	5	2	7	7.71	15.9	4.86	6.19
13	3	0	3	8.2	11.16	2.1	6.99
14	4	3	7	8.17	20.49	7.12	8.35
15	3	2	5	9.37	19.15	6.32	6.53
16	4	3	7	7.4	14.74	4.71	7.47
17	4	3	7	6.41	14.73	5.91	1.57
18	5	2	7	8.76	22.97	7.77	4.83
19	2	2	4	9.02	16.86	7.13	8.68
20	3	4	7	8.94	30.0	9.26	4.6

10.2.1 Bar graph : Dihedral violation statistics for each model ⓘ



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

10.3 Dihedral-angle violation statistics for the ensemble ⓘ

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

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

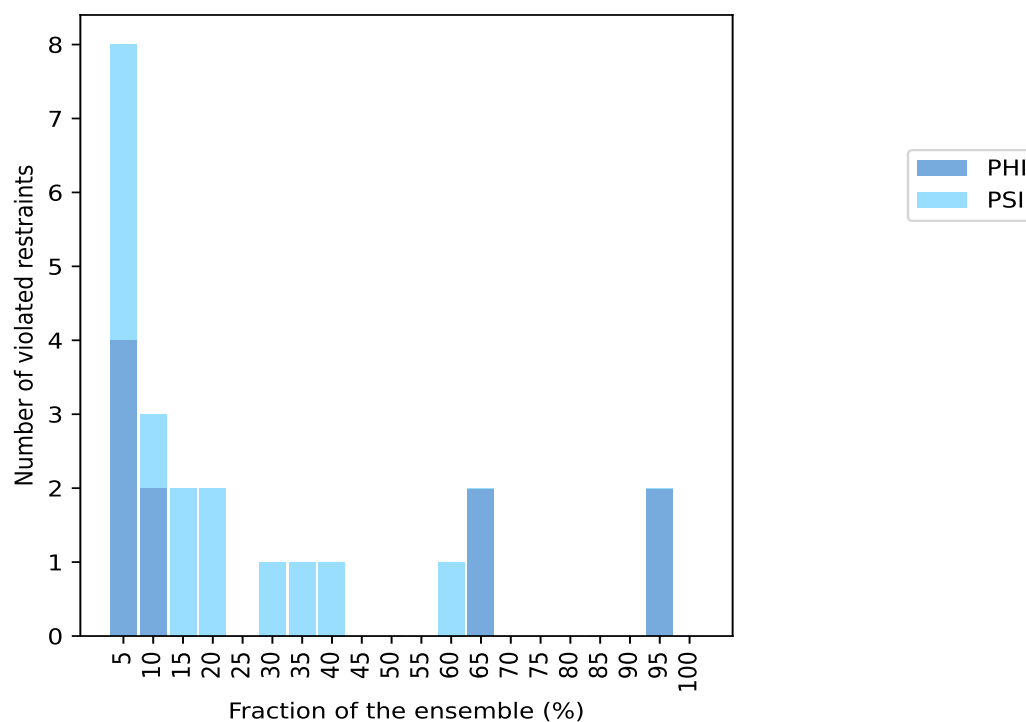
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Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
0	1	1	12	60.0
2	0	2	13	65.0
0	0	0	14	70.0
0	0	0	15	75.0
0	0	0	16	80.0
0	0	0	17	85.0
0	0	0	18	90.0
2	0	2	19	95.0
0	0	0	20	100.0

¹ Number of models with violations

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

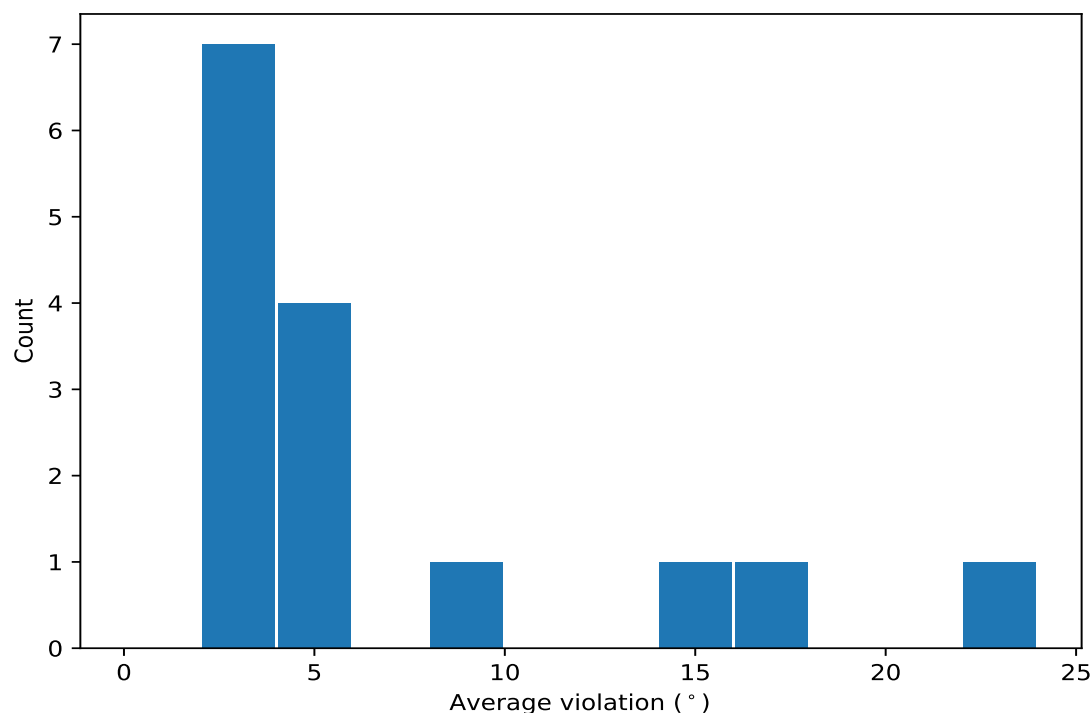


10.4 Most violated dihedral-angle restraints in the ensemble ⓘ

10.4.1 Histogram : Distribution of mean dihedral-angle violations ⓘ

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

in the ensemble



10.4.2 Table: Most violated dihedral-angle restraints [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.

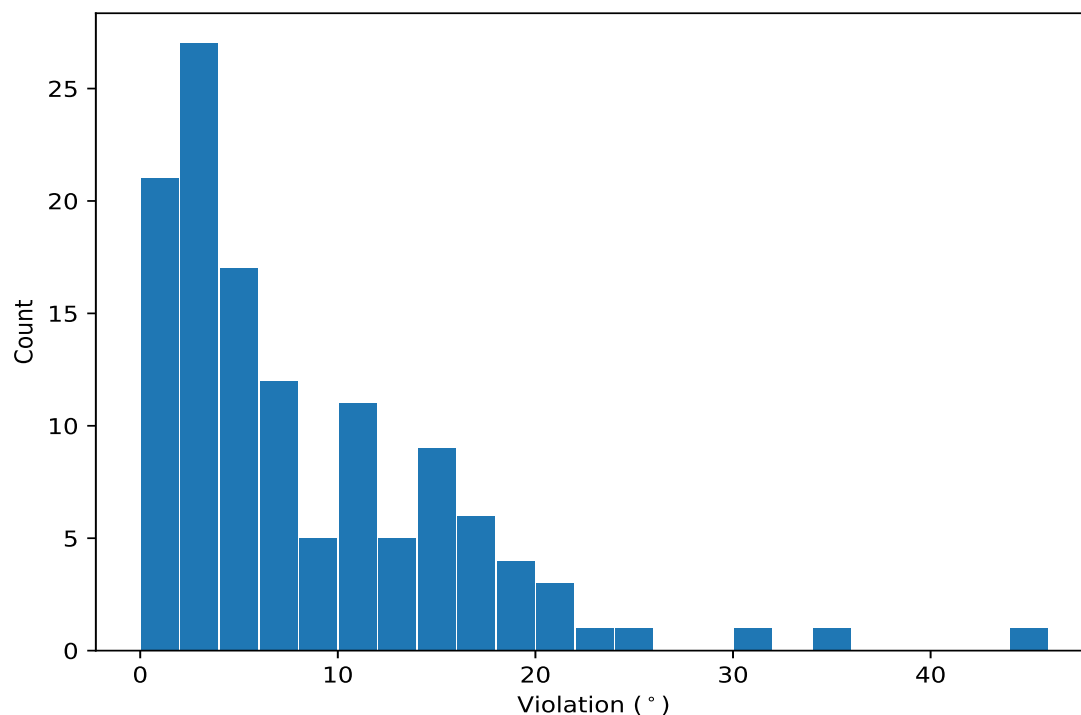
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	19	16.95	5.04	16.43
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	19	8.93	3.65	8.54
(1,17)	2:2:A:ALA:C	2:3:A:THR:N	2:3:A:THR:CA	2:3:A:THR:C	13	15.43	8.22	15.9
(1,71)	2:35:A:VAL:C	2:36:A:GLY:N	2:36:A:GLY:CA	2:36:A:GLY:C	13	5.46	3.51	4.6
(1,86)	2:45:A:ILE:N	2:45:A:ILE:CA	2:45:A:ILE:C	2:46:A:LYS:N	12	4.67	3.73	3.68
(1,56)	2:25:A:GLY:N	2:25:A:GLY:CA	2:25:A:GLY:C	2:26:A:GLU:N	8	2.92	1.17	2.96
(1,76)	2:40:A:LEU:N	2:40:A:LEU:CA	2:40:A:LEU:C	2:41:A:GLU:N	7	3.31	1.08	3.07
(1,66)	2:30:A:ILE:N	2:30:A:ILE:CA	2:30:A:ILE:C	2:31:A:THR:N	6	4.86	2.91	4.46
(1,12)	1:126:B:PRO:N	1:126:B:PRO:CA	1:126:B:PRO:C	1:127:B:PRO:N	4	5.45	1.06	5.36
(1,4)	1:119:B:LYS:N	1:119:B:LYS:CA	1:119:B:LYS:C	1:120:B:PRO:N	4	3.75	1.78	3.74
(1,34)	2:11:A:PHE:N	2:11:A:PHE:CA	2:11:A:PHE:C	2:12:A:ALA:N	3	3.28	2.97	1.19
(1,32)	2:10:A:ASP:N	2:10:A:ASP:CA	2:10:A:ASP:C	2:11:A:PHE:N	3	2.55	1.31	2.24
(1,15)	2:1:A:MET:C	2:2:A:ALA:N	2:2:A:ALA:CA	2:2:A:ALA:C	2	23.35	21.78	23.35
(1,77)	2:40:A:LEU:C	2:41:A:GLU:N	2:41:A:GLU:CA	2:41:A:GLU:C	2	3.1	1.72	3.1
(1,16)	2:2:A:ALA:N	2:2:A:ALA:CA	2:2:A:ALA:C	2:3:A:THR:N	2	2.72	0.35	2.72

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 (°)
(1,15)	2:1:A:MET:C	2:2:A:ALA:N	2:2:A:ALA:CA	2:2:A:ALA:C	10	45.13
(1,17)	2:2:A:ALA:C	2:3:A:THR:N	2:3:A:THR:CA	2:3:A:THR:C	10	34.85
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	20	30.0
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	3	24.59
(1,17)	2:2:A:ALA:C	2:3:A:THR:N	2:3:A:THR:CA	2:3:A:THR:C	18	22.97
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	7	21.71
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	14	20.49
(1,17)	2:2:A:ALA:C	2:3:A:THR:N	2:3:A:THR:CA	2:3:A:THR:C	5	20.49
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	15	19.15
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	11	19.13
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	10	18.48
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	18	18.07
(1,17)	2:2:A:ALA:C	2:3:A:THR:N	2:3:A:THR:CA	2:3:A:THR:C	11	17.76
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	19	16.86

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,17)	2:2:A:ALA:C	2:3:A:THR:N	2:3:A:THR:CA	2:3:A:THR:C	6	16.56
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	5	16.43
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	4	16.42
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	9	16.36
(1,17)	2:2:A:ALA:C	2:3:A:THR:N	2:3:A:THR:CA	2:3:A:THR:C	14	15.95
(1,17)	2:2:A:ALA:C	2:3:A:THR:N	2:3:A:THR:CA	2:3:A:THR:C	12	15.9
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	6	15.43
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	19	15.41
(1,17)	2:2:A:ALA:C	2:3:A:THR:N	2:3:A:THR:CA	2:3:A:THR:C	8	15.3
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	16	14.74
(1,17)	2:2:A:ALA:C	2:3:A:THR:N	2:3:A:THR:CA	2:3:A:THR:C	17	14.73
(1,86)	2:45:A:ILE:N	2:45:A:ILE:CA	2:45:A:ILE:C	2:46:A:LYS:N	7	14.66
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	15	14.33
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	17	13.58
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	2	12.53
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	3	12.51
(1,17)	2:2:A:ALA:C	2:3:A:THR:N	2:3:A:THR:CA	2:3:A:THR:C	2	12.3
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	20	12.02
(1,71)	2:35:A:VAL:C	2:36:A:GLY:N	2:36:A:GLY:CA	2:36:A:GLY:C	2	11.73
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	16	11.62
(1,71)	2:35:A:VAL:C	2:36:A:GLY:N	2:36:A:GLY:CA	2:36:A:GLY:C	12	11.5
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	12	11.21
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	13	11.16
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	17	11.08
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	6	10.96
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	9	10.54
(1,17)	2:2:A:ALA:C	2:3:A:THR:N	2:3:A:THR:CA	2:3:A:THR:C	16	10.18
(1,71)	2:35:A:VAL:C	2:36:A:GLY:N	2:36:A:GLY:CA	2:36:A:GLY:C	5	10.11
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	2	10.02
(1,86)	2:45:A:ILE:N	2:45:A:ILE:CA	2:45:A:ILE:C	2:46:A:LYS:N	6	8.84
(1,66)	2:30:A:ILE:N	2:30:A:ILE:CA	2:30:A:ILE:C	2:31:A:THR:N	20	8.73
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	14	8.54
(1,66)	2:30:A:ILE:N	2:30:A:ILE:CA	2:30:A:ILE:C	2:31:A:THR:N	14	8.35
(1,67)	2:30:A:ILE:C	2:31:A:THR:N	2:31:A:THR:CA	2:31:A:THR:C	1	8.13
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	18	7.87
(1,34)	2:11:A:PHE:N	2:11:A:PHE:CA	2:11:A:PHE:C	2:12:A:ALA:N	16	7.47
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	4	7.02
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	13	6.99
(1,12)	1:126:B:PRO:N	1:126:B:PRO:CA	1:126:B:PRO:C	1:127:B:PRO:N	11	6.85
(1,86)	2:45:A:ILE:N	2:45:A:ILE:CA	2:45:A:ILE:C	2:46:A:LYS:N	15	6.53
(1,71)	2:35:A:VAL:C	2:36:A:GLY:N	2:36:A:GLY:CA	2:36:A:GLY:C	13	6.45
(1,71)	2:35:A:VAL:C	2:36:A:GLY:N	2:36:A:GLY:CA	2:36:A:GLY:C	10	6.41
(1,4)	1:119:B:LYS:N	1:119:B:LYS:CA	1:119:B:LYS:C	1:120:B:PRO:N	5	6.27
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	12	6.19
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	8	6.06
(1,12)	1:126:B:PRO:N	1:126:B:PRO:CA	1:126:B:PRO:C	1:127:B:PRO:N	7	6.06
(1,76)	2:40:A:LEU:N	2:40:A:LEU:CA	2:40:A:LEU:C	2:41:A:GLU:N	7	5.72
(1,71)	2:35:A:VAL:C	2:36:A:GLY:N	2:36:A:GLY:CA	2:36:A:GLY:C	9	5.69
(1,86)	2:45:A:ILE:N	2:45:A:ILE:CA	2:45:A:ILE:C	2:46:A:LYS:N	9	5.48
(1,66)	2:30:A:ILE:N	2:30:A:ILE:CA	2:30:A:ILE:C	2:31:A:THR:N	10	5.29
(1,90)	2:47:A:GLY:N	2:47:A:GLY:CA	2:47:A:GLY:C	2:48:A:GLU:N	4	4.86

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,77)	2:40:A:LEU:C	2:41:A:GLU:N	2:41:A:GLU:CA	2:41:A:GLU:C	18	4.83
(1,56)	2:25:A:GLY:N	2:25:A:GLY:CA	2:25:A:GLY:C	2:26:A:GLU:N	7	4.79
(1,12)	1:126:B:PRO:N	1:126:B:PRO:CA	1:126:B:PRO:C	1:127:B:PRO:N	16	4.67
(1,71)	2:35:A:VAL:C	2:36:A:GLY:N	2:36:A:GLY:CA	2:36:A:GLY:C	20	4.6
(1,86)	2:45:A:ILE:N	2:45:A:ILE:CA	2:45:A:ILE:C	2:46:A:LYS:N	11	4.52
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	7	4.3
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	11	4.3
(1,56)	2:25:A:GLY:N	2:25:A:GLY:CA	2:25:A:GLY:C	2:26:A:GLU:N	4	4.29
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	5	4.28
(1,32)	2:10:A:ASP:N	2:10:A:ASP:CA	2:10:A:ASP:C	2:11:A:PHE:N	8	4.28
(1,12)	1:126:B:PRO:N	1:126:B:PRO:CA	1:126:B:PRO:C	1:127:B:PRO:N	12	4.22
(1,86)	2:45:A:ILE:N	2:45:A:ILE:CA	2:45:A:ILE:C	2:46:A:LYS:N	8	4.14
(1,71)	2:35:A:VAL:C	2:36:A:GLY:N	2:36:A:GLY:CA	2:36:A:GLY:C	11	3.93
(1,4)	1:119:B:LYS:N	1:119:B:LYS:CA	1:119:B:LYS:C	1:120:B:PRO:N	15	3.89
(1,76)	2:40:A:LEU:N	2:40:A:LEU:CA	2:40:A:LEU:C	2:41:A:GLU:N	2	3.7
(1,66)	2:30:A:ILE:N	2:30:A:ILE:CA	2:30:A:ILE:C	2:31:A:THR:N	3	3.63
(1,4)	1:119:B:LYS:N	1:119:B:LYS:CA	1:119:B:LYS:C	1:120:B:PRO:N	12	3.59
(1,55)	2:24:A:GLU:C	2:25:A:GLY:N	2:25:A:GLY:CA	2:25:A:GLY:C	18	3.43
(1,56)	2:25:A:GLY:N	2:25:A:GLY:CA	2:25:A:GLY:C	2:26:A:GLU:N	5	3.23
(1,86)	2:45:A:ILE:N	2:45:A:ILE:CA	2:45:A:ILE:C	2:46:A:LYS:N	10	3.22
(1,56)	2:25:A:GLY:N	2:25:A:GLY:CA	2:25:A:GLY:C	2:26:A:GLU:N	11	3.21
(1,76)	2:40:A:LEU:N	2:40:A:LEU:CA	2:40:A:LEU:C	2:41:A:GLU:N	8	3.12
(1,81)	2:42:A:GLY:C	2:43:A:ARG:N	2:43:A:ARG:CA	2:43:A:ARG:C	1	3.11
(1,76)	2:40:A:LEU:N	2:40:A:LEU:CA	2:40:A:LEU:C	2:41:A:GLU:N	3	3.07
(1,16)	2:2:A:ALA:N	2:2:A:ALA:CA	2:2:A:ALA:C	2:3:A:THR:N	10	3.07
(1,71)	2:35:A:VAL:C	2:36:A:GLY:N	2:36:A:GLY:CA	2:36:A:GLY:C	15	2.96
(1,76)	2:40:A:LEU:N	2:40:A:LEU:CA	2:40:A:LEU:C	2:41:A:GLU:N	5	2.95
(1,14)	1:128:B:PRO:N	1:128:B:PRO:CA	1:128:B:PRO:C	1:129:B:THR:N	20	2.9
(1,56)	2:25:A:GLY:N	2:25:A:GLY:CA	2:25:A:GLY:C	2:26:A:GLU:N	18	2.7
(1,76)	2:40:A:LEU:N	2:40:A:LEU:CA	2:40:A:LEU:C	2:41:A:GLU:N	6	2.45
(1,56)	2:25:A:GLY:N	2:25:A:GLY:CA	2:25:A:GLY:C	2:26:A:GLU:N	20	2.42
(1,16)	2:2:A:ALA:N	2:2:A:ALA:CA	2:2:A:ALA:C	2:3:A:THR:N	5	2.37
(1,71)	2:35:A:VAL:C	2:36:A:GLY:N	2:36:A:GLY:CA	2:36:A:GLY:C	1	2.31
(1,32)	2:10:A:ASP:N	2:10:A:ASP:CA	2:10:A:ASP:C	2:11:A:PHE:N	11	2.24
(1,17)	2:2:A:ALA:C	2:3:A:THR:N	2:3:A:THR:CA	2:3:A:THR:C	7	2.24
(1,76)	2:40:A:LEU:N	2:40:A:LEU:CA	2:40:A:LEU:C	2:41:A:GLU:N	10	2.17
(1,71)	2:35:A:VAL:C	2:36:A:GLY:N	2:36:A:GLY:CA	2:36:A:GLY:C	8	2.11
(1,41)	2:17:A:ASN:C	2:18:A:ASN:N	2:18:A:ASN:CA	2:18:A:ASN:C	10	2.05
(1,85)	2:44:A:ASN:C	2:45:A:ILE:N	2:45:A:ILE:CA	2:45:A:ILE:C	7	2.01
(1,86)	2:45:A:ILE:N	2:45:A:ILE:CA	2:45:A:ILE:C	2:46:A:LYS:N	1	1.94
(1,66)	2:30:A:ILE:N	2:30:A:ILE:CA	2:30:A:ILE:C	2:31:A:THR:N	19	1.94
(1,86)	2:45:A:ILE:N	2:45:A:ILE:CA	2:45:A:ILE:C	2:46:A:LYS:N	20	1.93
(1,86)	2:45:A:ILE:N	2:45:A:ILE:CA	2:45:A:ILE:C	2:46:A:LYS:N	19	1.88
(1,71)	2:35:A:VAL:C	2:36:A:GLY:N	2:36:A:GLY:CA	2:36:A:GLY:C	14	1.8
(1,30)	2:9:A:TYR:N	2:9:A:TYR:CA	2:9:A:TYR:C	2:10:A:ASP:N	1	1.8
(1,56)	2:25:A:GLY:N	2:25:A:GLY:CA	2:25:A:GLY:C	2:26:A:GLU:N	16	1.73
(1,15)	2:1:A:MET:C	2:2:A:ALA:N	2:2:A:ALA:CA	2:2:A:ALA:C	17	1.57
(1,86)	2:45:A:ILE:N	2:45:A:ILE:CA	2:45:A:ILE:C	2:46:A:LYS:N	18	1.48
(1,86)	2:45:A:ILE:N	2:45:A:ILE:CA	2:45:A:ILE:C	2:46:A:LYS:N	17	1.47
(1,97)	2:50:A:GLY:C	2:51:A:LEU:N	2:51:A:LEU:CA	2:51:A:LEU:C	4	1.4
(1,71)	2:35:A:VAL:C	2:36:A:GLY:N	2:36:A:GLY:CA	2:36:A:GLY:C	16	1.39

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,77)	2:40:A:LEU:C	2:41:A:GLU:N	2:41:A:GLU:CA	2:41:A:GLU:C	12	1.38
(1,17)	2:2:A:ALA:C	2:3:A:THR:N	2:3:A:THR:CA	2:3:A:THR:C	9	1.33
(1,4)	1:119:B:LYS:N	1:119:B:LYS:CA	1:119:B:LYS:C	1:120:B:PRO:N	17	1.24
(1,66)	2:30:A:ILE:N	2:30:A:ILE:CA	2:30:A:ILE:C	2:31:A:THR:N	9	1.2
(1,34)	2:11:A:PHE:N	2:11:A:PHE:CA	2:11:A:PHE:C	2:12:A:ALA:N	17	1.19
(1,34)	2:11:A:PHE:N	2:11:A:PHE:CA	2:11:A:PHE:C	2:12:A:ALA:N	2	1.17
(1,32)	2:10:A:ASP:N	2:10:A:ASP:CA	2:10:A:ASP:C	2:11:A:PHE:N	1	1.12
(1,115)	2:60:A:LEU:N	2:60:A:LEU:CA	2:60:A:LEU:C	2:61:A:PRO:N	14	1.03
(1,56)	2:25:A:GLY:N	2:25:A:GLY:CA	2:25:A:GLY:C	2:26:A:GLU:N	14	1.01