



Full wwPDB NMR Structure Validation Report ⓘ

Mar 8, 2026 – 01:56 PM UTC

PDB ID : 6U19 / pdb_00006u19
Title : Solution Structure of the RAZUL domain from 26S proteasome subunit
hRpn10/S5a complexed with the AZUL domain from E3 ligase E6AP/UBE3A
Authors : Chen, X.; Walters, K.J.
Deposited on : 2019-08-15

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

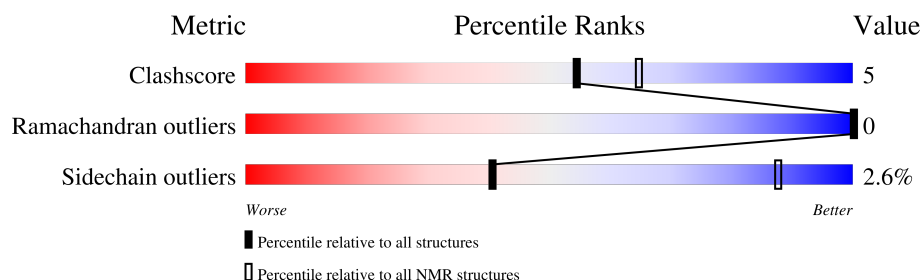
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 91%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	73	
2	B	64	

2 Ensemble composition and analysis

This entry contains 15 models. Model 4 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:327-A:360, B:25-B:82 (92)	0.55	4

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 2 clusters and 2 single-model clusters were found.

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

3 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 2072 atoms, of which 1015 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called 26S proteasome non-ATPase regulatory subunit 4.

Mol	Chain	Residues	Atoms						Trace
1	A	73	Total	C	H	N	O	S	0
			1078	332	523	91	129	3	

- Molecule 2 is a protein called Ubiquitin-protein ligase E3A.

Mol	Chain	Residues	Atoms						Trace
2	B	64	Total	C	H	N	O	S	0
			993	312	492	90	92	7	

- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

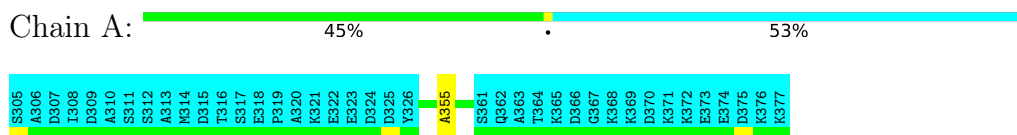
Mol	Chain	Residues	Atoms	
3	B	1	Total	Zn
			1	1

4 Residue-property plots [i](#)

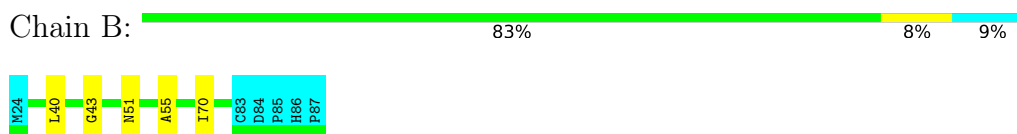
4.1 Average score per residue in the NMR ensemble

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: 26S proteasome non-ATPase regulatory subunit 4



- Molecule 2: Ubiquitin-protein ligase E3A

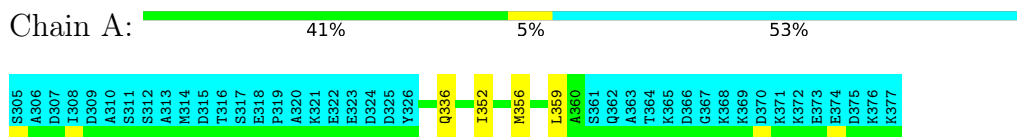


4.2 Scores per residue for each member of the ensemble

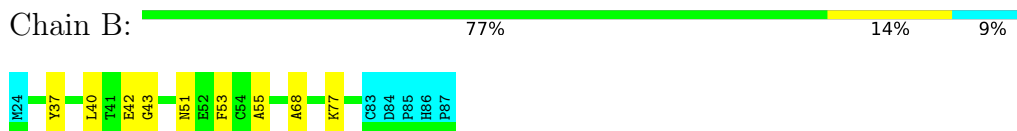
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: 26S proteasome non-ATPase regulatory subunit 4

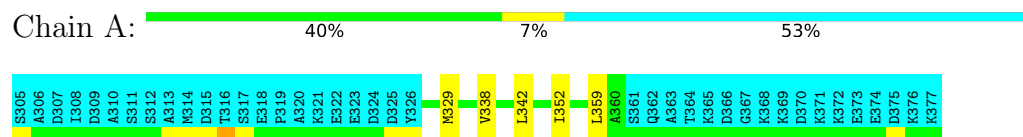


- Molecule 2: Ubiquitin-protein ligase E3A

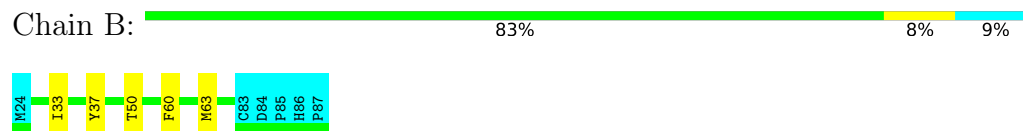


4.2.2 Score per residue for model 2

- Molecule 1: 26S proteasome non-ATPase regulatory subunit 4

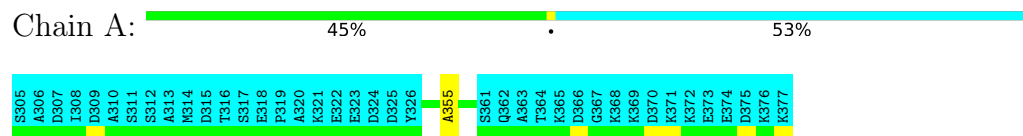


- Molecule 2: Ubiquitin-protein ligase E3A

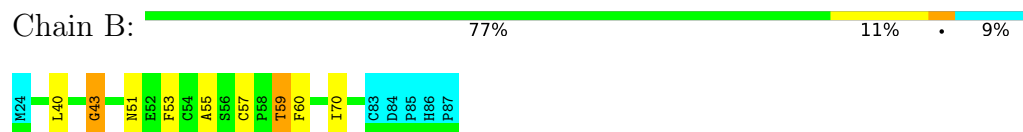


4.2.3 Score per residue for model 3

- Molecule 1: 26S proteasome non-ATPase regulatory subunit 4

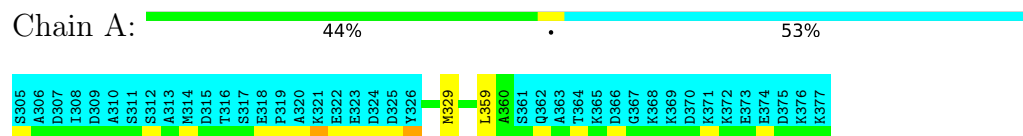


- Molecule 2: Ubiquitin-protein ligase E3A

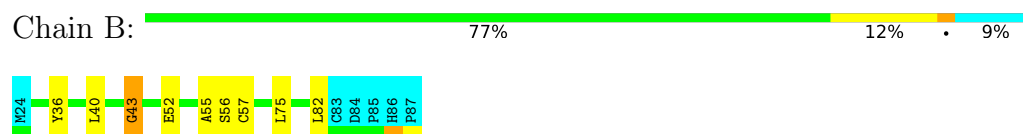


4.2.4 Score per residue for model 4 (medoid)

- Molecule 1: 26S proteasome non-ATPase regulatory subunit 4

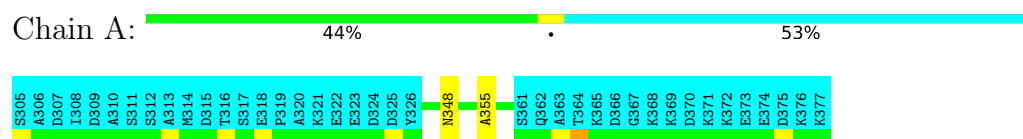


- Molecule 2: Ubiquitin-protein ligase E3A

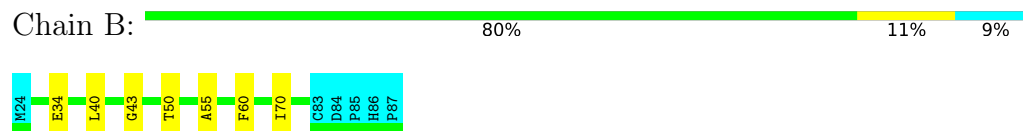


4.2.5 Score per residue for model 5

- Molecule 1: 26S proteasome non-ATPase regulatory subunit 4

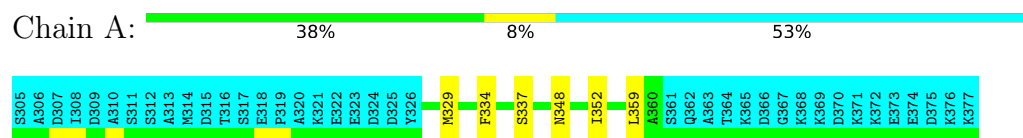


- Molecule 2: Ubiquitin-protein ligase E3A

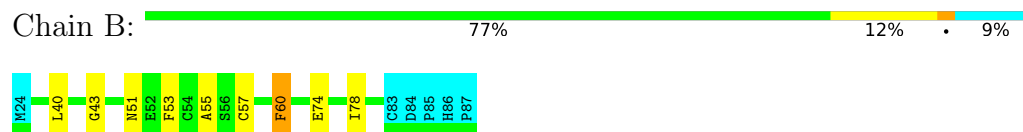


4.2.6 Score per residue for model 6

- Molecule 1: 26S proteasome non-ATPase regulatory subunit 4

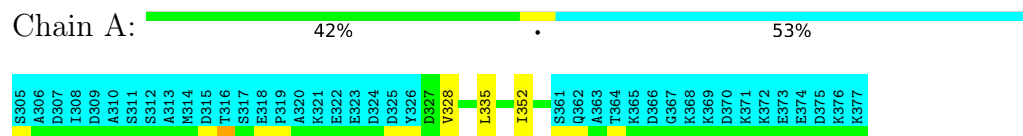


- Molecule 2: Ubiquitin-protein ligase E3A

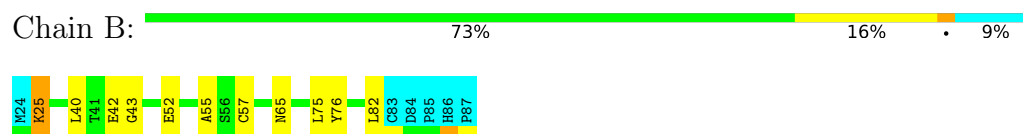


4.2.7 Score per residue for model 7

- Molecule 1: 26S proteasome non-ATPase regulatory subunit 4

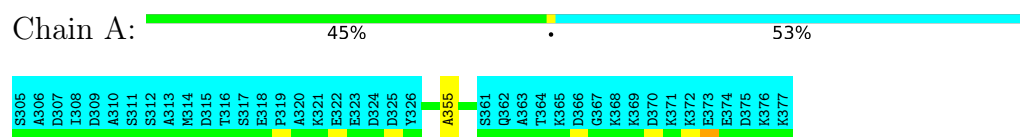


- Molecule 2: Ubiquitin-protein ligase E3A

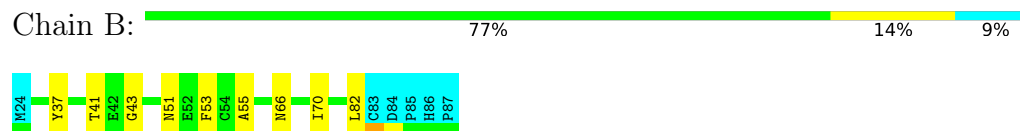


4.2.8 Score per residue for model 8

- Molecule 1: 26S proteasome non-ATPase regulatory subunit 4

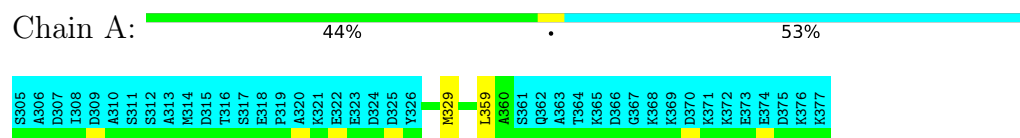


- Molecule 2: Ubiquitin-protein ligase E3A

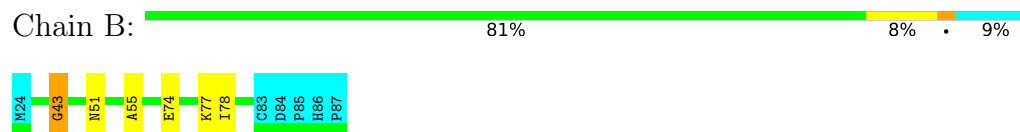


4.2.9 Score per residue for model 9

- Molecule 1: 26S proteasome non-ATPase regulatory subunit 4

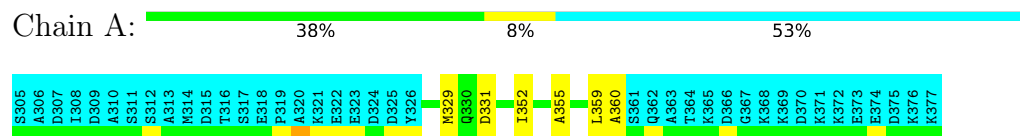


- Molecule 2: Ubiquitin-protein ligase E3A

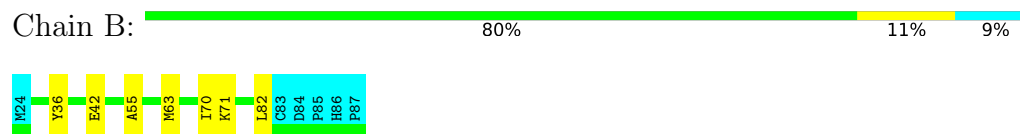


4.2.10 Score per residue for model 10

- Molecule 1: 26S proteasome non-ATPase regulatory subunit 4

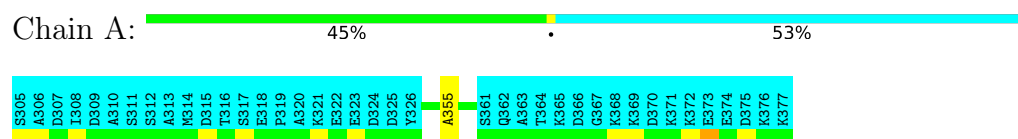


- Molecule 2: Ubiquitin-protein ligase E3A

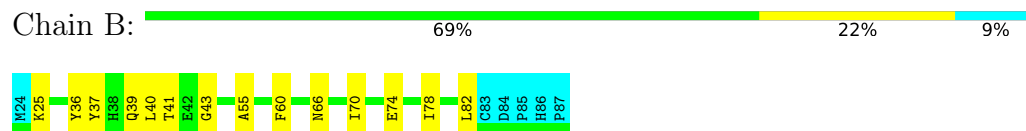


4.2.11 Score per residue for model 11

- Molecule 1: 26S proteasome non-ATPase regulatory subunit 4

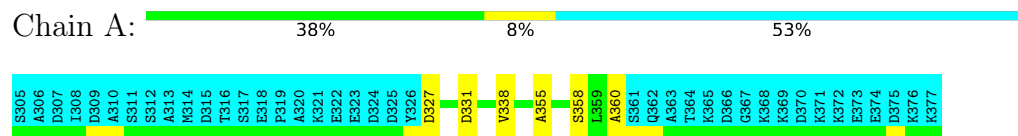


- Molecule 2: Ubiquitin-protein ligase E3A

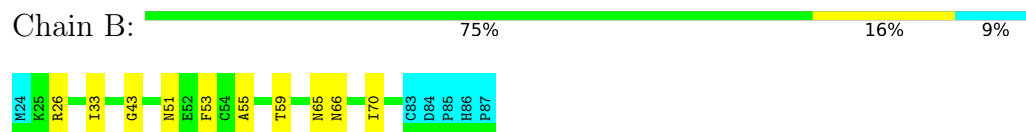


4.2.12 Score per residue for model 12

- Molecule 1: 26S proteasome non-ATPase regulatory subunit 4

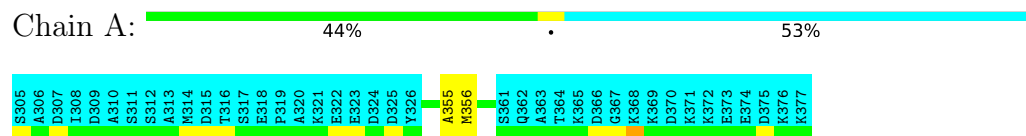


- Molecule 2: Ubiquitin-protein ligase E3A

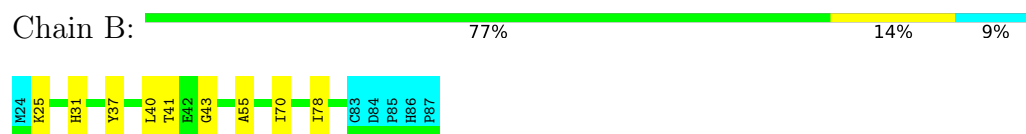


4.2.13 Score per residue for model 13

- Molecule 1: 26S proteasome non-ATPase regulatory subunit 4

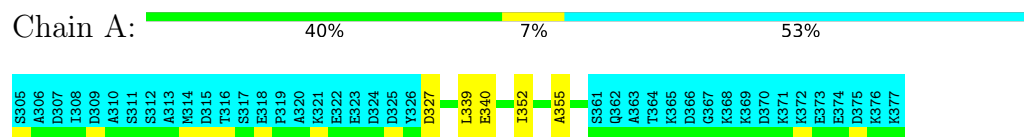


- Molecule 2: Ubiquitin-protein ligase E3A

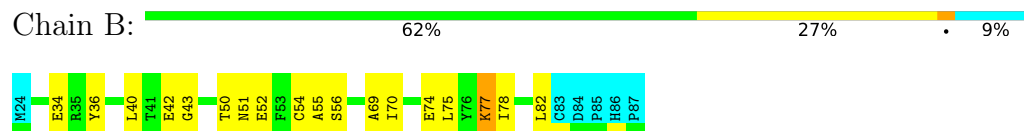


4.2.14 Score per residue for model 14

- Molecule 1: 26S proteasome non-ATPase regulatory subunit 4

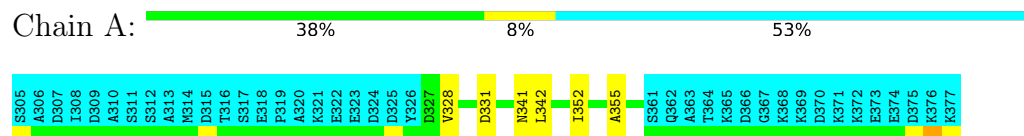


- Molecule 2: Ubiquitin-protein ligase E3A

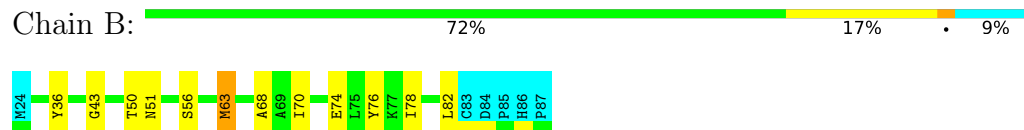


4.2.15 Score per residue for model 15

- Molecule 1: 26S proteasome non-ATPase regulatory subunit 4



- Molecule 2: Ubiquitin-protein ligase E3A



5 Refinement protocol and experimental data overview

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

Of the 50 calculated structures, 15 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
X-PLOR NIH	structure calculation	
X-PLOR NIH	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	1618
Number of shifts mapped to atoms	1618
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	91%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.61±0.01	0±0/260 (0.0± 0.0%)	1.06±0.02	0±0/355 (0.0± 0.0%)
2	B	0.58±0.02	0±0/462 (0.0± 0.1%)	1.08±0.02	1±1/622 (0.1± 0.1%)
All	All	0.59	1/10830 (0.0%)	1.07	8/14655 (0.1%)

All unique bond outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	B	60	PHE	CA-C	-5.54	1.45	1.52	6	1

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	B	43	GLY	N-CA-C	-6.48	105.02	111.56	4	5
2	B	59	THR	N-CA-C	6.26	120.60	113.15	3	1
2	B	59	THR	CA-C-N	5.12	129.58	122.77	12	1
2	B	59	THR	C-N-CA	5.12	129.58	122.77	12	1

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	256	244	244	3±1
2	B	454	451	449	6±2
All	All	10665	10425	10395	108

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 5.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:40:LEU:O	2:B:55:ALA:HB2	0.76	1.81	3	6
2:B:40:LEU:HD11	2:B:60:PHE:CZ	0.70	2.22	5	1
1:A:329:MET:SD	1:A:359:LEU:HD21	0.67	2.30	4	5
2:B:36:TYR:CD2	2:B:82:LEU:HD21	0.67	2.24	11	4
2:B:40:LEU:HD11	2:B:75:LEU:CD1	0.61	2.25	14	3
2:B:74:GLU:O	2:B:78:ILE:HG22	0.60	1.97	15	5
2:B:63:MET:HE2	2:B:71:LYS:NZ	0.59	2.11	10	1
2:B:43:GLY:CA	2:B:55:ALA:HB3	0.57	2.28	14	10
2:B:50:THR:O	2:B:50:THR:HG23	0.56	2.00	15	3
2:B:37:TYR:O	2:B:41:THR:HG23	0.56	2.01	13	1
2:B:40:LEU:HD11	2:B:60:PHE:CE1	0.56	2.35	11	3
2:B:50:THR:O	2:B:50:THR:HG22	0.55	2.01	5	1
2:B:82:LEU:HD12	2:B:82:LEU:N	0.55	2.17	15	2
2:B:43:GLY:HA3	2:B:55:ALA:HB3	0.54	1.77	7	6
1:A:328:VAL:HG21	2:B:76:TYR:OH	0.53	2.03	15	2
1:A:355:ALA:CB	2:B:70:ILE:HD12	0.53	2.34	11	9
2:B:36:TYR:CE2	2:B:82:LEU:HD21	0.52	2.40	4	2
2:B:43:GLY:HA2	2:B:55:ALA:HB3	0.52	1.82	13	3
2:B:82:LEU:HD12	2:B:82:LEU:H	0.48	1.68	15	2
1:A:352:ILE:HD12	1:A:352:ILE:N	0.48	2.23	2	7
2:B:42:GLU:O	2:B:55:ALA:HB3	0.47	2.09	10	1
2:B:60:PHE:CZ	2:B:63:MET:HE3	0.47	2.45	2	1
2:B:37:TYR:CZ	2:B:41:THR:HG21	0.47	2.45	11	2
2:B:42:GLU:C	2:B:55:ALA:HB3	0.46	2.36	1	3
2:B:63:MET:HE3	2:B:68:ALA:HB2	0.46	1.87	15	1
1:A:339:LEU:HD22	2:B:69:ALA:HB1	0.44	1.88	14	1
2:B:37:TYR:CE1	2:B:68:ALA:HB3	0.44	2.47	1	1
1:A:336:GLN:C	1:A:336:GLN:CD	0.44	2.86	1	1
2:B:51:ASN:OD1	2:B:53:PHE:C	0.43	2.61	8	5
1:A:348:ASN:OD1	1:A:348:ASN:C	0.43	2.61	6	2
1:A:334:PHE:O	1:A:337:SER:OG	0.43	2.37	6	1
1:A:329:MET:HE3	2:B:77:LYS:HD2	0.42	1.91	9	1
2:B:60:PHE:CD2	2:B:60:PHE:C	0.42	2.97	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:338:VAL:HG11	2:B:33:ILE:HG21	0.42	1.91	12	2
1:A:342:LEU:HD22	2:B:37:TYR:CD2	0.41	2.50	2	1
2:B:55:ALA:C	2:B:57:CYS:H	0.41	2.22	7	1
1:A:327:ASP:C	1:A:327:ASP:OD1	0.41	2.63	12	1
1:A:340:GLU:CD	1:A:340:GLU:C	0.41	2.88	14	1
1:A:331:ASP:O	1:A:331:ASP:CG	0.41	2.61	15	1
1:A:341:ASN:O	1:A:342:LEU:C	0.41	2.61	15	1
1:A:359:LEU:HD13	2:B:77:LYS:HZ2	0.41	1.75	1	1
1:A:328:VAL:CG1	1:A:335:LEU:HD21	0.40	2.46	7	1
1:A:327:ASP:OD1	1:A:327:ASP:C	0.40	2.63	14	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	A	34/73 (47%)	34±1 (99±2%)	0±1 (1±2%)	0±0 (0±0%)	100	100
2	B	58/64 (91%)	56±1 (97±2%)	2±1 (3±2%)	0±0 (0±0%)	100	100
All	All	1380/2055 (67%)	1348 (98%)	32 (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	A	29/62 (47%)	29±0 (99±1%)	0±0 (1±1%)	73	96
2	B	46/52 (88%)	44±1 (96±3%)	2±1 (4±3%)	30	81
All	All	1125/1710 (66%)	1096 (97%)	29 (3%)	41	88

All 18 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
2	B	57	CYS	3
2	B	52	GLU	3
2	B	56	SER	3
2	B	66	ASN	3
1	A	356	MET	2
2	B	34	GLU	2
2	B	65	ASN	2
2	B	59	THR	1
2	B	25	LYS	1
2	B	82	LEU	1
2	B	51	ASN	1
1	A	331	ASP	1
2	B	39	GLN	1
2	B	31	HIS	1
2	B	78	ILE	1
2	B	54	CYS	1
2	B	77	LYS	1
2	B	63	MET	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.6 Ligand geometry ⓘ

Of 1 ligands modelled in this entry, 1 is monoatomic - leaving 0 for Mogul analysis.

6.7 Other polymers ⓘ

There are no such molecules in this entry.

6.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 91% for the well-defined parts and 92% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

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	1618
Number of shifts mapped to atoms	1618
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	137	-0.16 ± 0.18	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	132	0.44 ± 0.08	None needed (< 0.5 ppm)
$^{13}\text{C}'$	136	-0.15 ± 0.15	None needed (< 0.5 ppm)
^{15}N	130	-0.74 ± 0.28	Should be applied

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 91%, i.e. 1116 atoms were assigned a chemical shift out of a possible 1224. 0 out of 13 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	456/456 (100%)	184/184 (100%)	184/184 (100%)	88/88 (100%)
Sidechain	632/695 (91%)	433/451 (96%)	187/215 (87%)	12/29 (41%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	28/73 (38%)	28/35 (80%)	0/34 (0%)	0/4 (0%)
Overall	1116/1224 (91%)	645/670 (96%)	371/433 (86%)	100/121 (83%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 92%, i.e. 1616 atoms were assigned a chemical shift out of a possible 1762. 0 out of 13 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	673/676 (100%)	270/272 (99%)	273/274 (100%)	130/130 (100%)
Sidechain	910/996 (91%)	621/639 (97%)	276/319 (87%)	13/38 (34%)
Aromatic	33/90 (37%)	33/43 (77%)	0/41 (0%)	0/6 (0%)
Overall	1616/1762 (92%)	924/954 (97%)	549/634 (87%)	143/174 (82%)

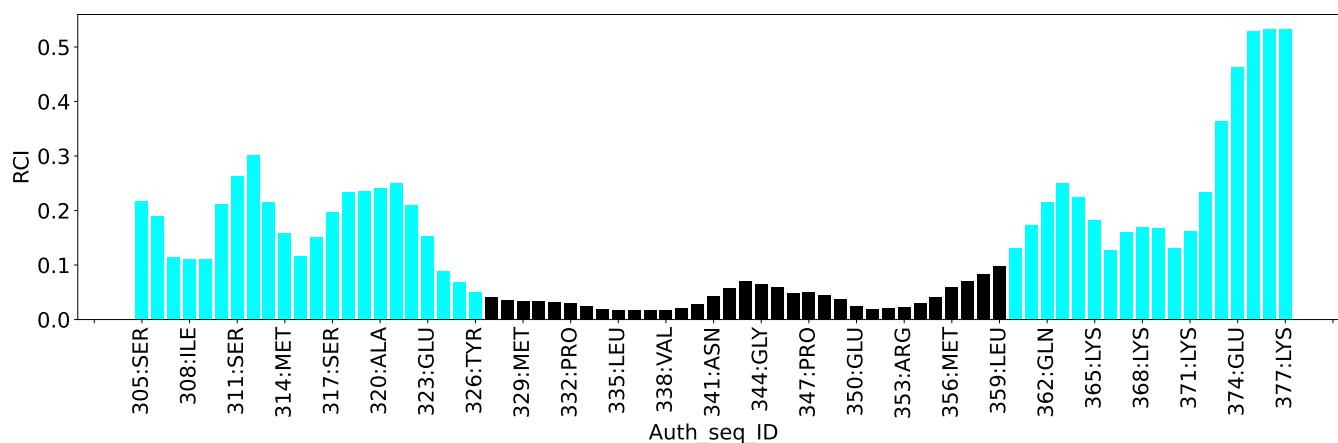
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

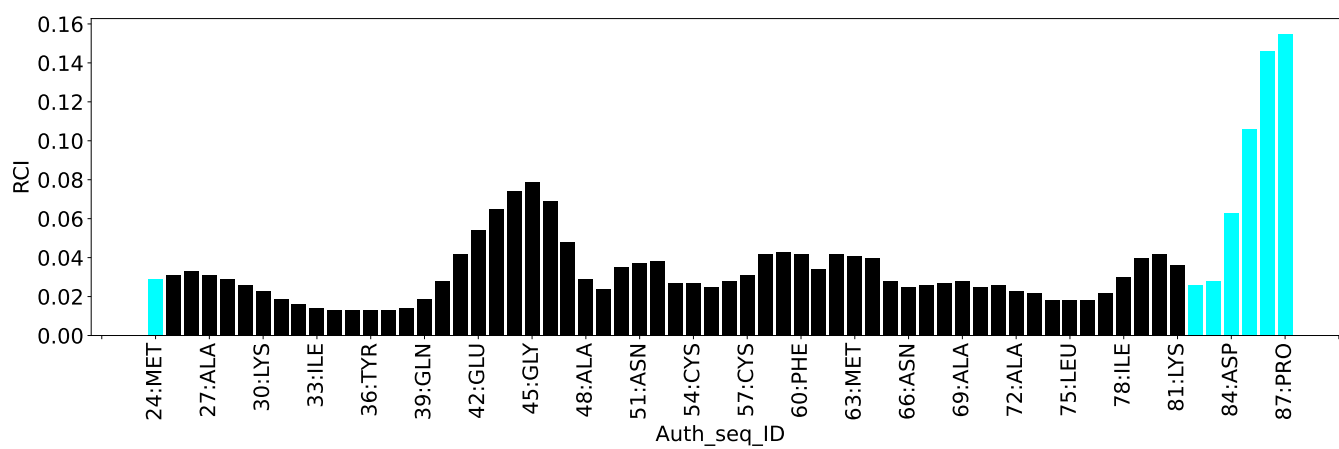
7.1.5 Random Coil Index (RCI) plots [i](#)

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

Random coil index (RCI) for chain A:



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	2097
Intra-residue ($ i-j =0$)	799
Sequential ($ i-j =1$)	449
Medium range ($ i-j >1$ and $ i-j <5$)	375
Long range ($ i-j \geq 5$)	167
Inter-chain	217
Hydrogen bond restraints	76
Disulfide bond restraints	6
Total dihedral-angle restraints	176
Number of unmapped restraints	0
Number of restraints per residue	16.5
Number of long range restraints per residue ¹	1.3

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)	23.5	0.2
0.2-0.5 (Medium)	10.7	0.5
>0.5 (Large)	0.6	2.23

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)	7.4	9.24
10.0-20.0 (Medium)	0.9	15.84
>20.0 (Large)	0.3	30.02

9 Distance violation analysis

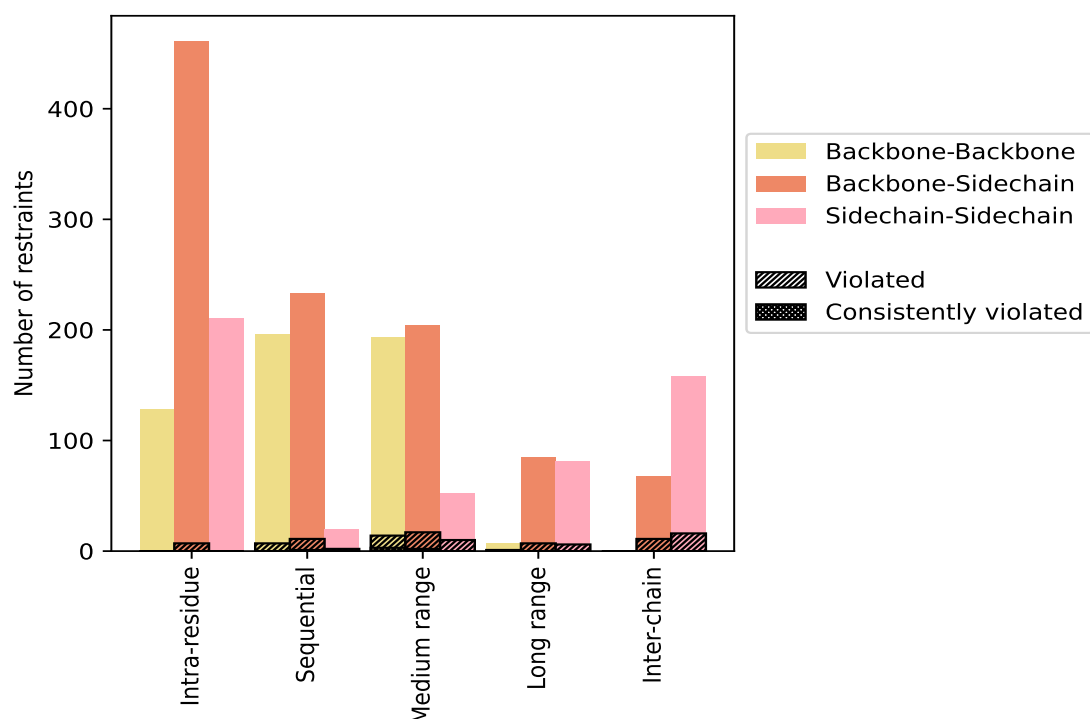
9.1 Summary of distance violations

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.

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	799	38.1	7	0.9	0.3	0	0.0	0.0
Backbone-Backbone	128	6.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	461	22.0	7	1.5	0.3	0	0.0	0.0
Sidechain-Sidechain	210	10.0	0	0.0	0.0	0	0.0	0.0
Sequential ($i-j =1$)	449	21.4	20	4.5	1.0	1	0.2	0.0
Backbone-Backbone	196	9.3	7	3.6	0.3	0	0.0	0.0
Backbone-Sidechain	233	11.1	11	4.7	0.5	1	0.4	0.0
Sidechain-Sidechain	20	1.0	2	10.0	0.1	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	375	17.9	41	10.9	2.0	5	1.3	0.2
Backbone-Backbone	193	9.2	14	7.3	0.7	3	1.6	0.1
Backbone-Sidechain	130	6.2	17	13.1	0.8	2	1.5	0.1
Sidechain-Sidechain	52	2.5	10	19.2	0.5	0	0.0	0.0
Long range ($i-j \geq 5$)	167	8.0	14	8.4	0.7	0	0.0	0.0
Backbone-Backbone	7	0.3	1	14.3	0.0	0	0.0	0.0
Backbone-Sidechain	85	4.1	7	8.2	0.3	0	0.0	0.0
Sidechain-Sidechain	75	3.6	6	8.0	0.3	0	0.0	0.0
Inter-chain	217	10.3	20	9.2	1.0	0	0.0	0.0
Backbone-Backbone	1	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	68	3.2	11	16.2	0.5	0	0.0	0.0
Sidechain-Sidechain	148	7.1	9	6.1	0.4	0	0.0	0.0
Hydrogen bond	76	3.6	2	2.6	0.1	0	0.0	0.0
Disulfide bond	6	0.3	0	0.0	0.0	0	0.0	0.0
Total	2097	100.0	109	5.2	5.2	6	0.3	0.3
Backbone-Backbone	525	25.0	22	4.2	1.0	3	0.6	0.1
Backbone-Sidechain	1051	50.1	53	5.0	2.5	3	0.3	0.1
Sidechain-Sidechain	521	24.8	34	6.5	1.6	0	0.0	0.0

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

9.1.1 Bar chart : Distribution of distance restraints and violations [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	0	10	15	5	9	39	0.19	0.5	0.1	0.15
2	0	9	21	2	10	42	0.18	0.43	0.08	0.14
3	1	6	15	6	10	38	0.19	0.46	0.08	0.16
4	2	10	17	5	6	40	0.21	0.44	0.1	0.17
5	0	7	16	6	11	40	0.19	0.67	0.11	0.15
6	0	4	15	2	10	31	0.18	0.36	0.07	0.16
7	2	8	18	6	7	41	0.28	2.23	0.35	0.18
8	0	4	16	1	6	27	0.16	0.34	0.06	0.14
9	1	5	18	5	10	39	0.17	0.44	0.08	0.14
10	0	11	20	6	7	44	0.2	0.56	0.1	0.18

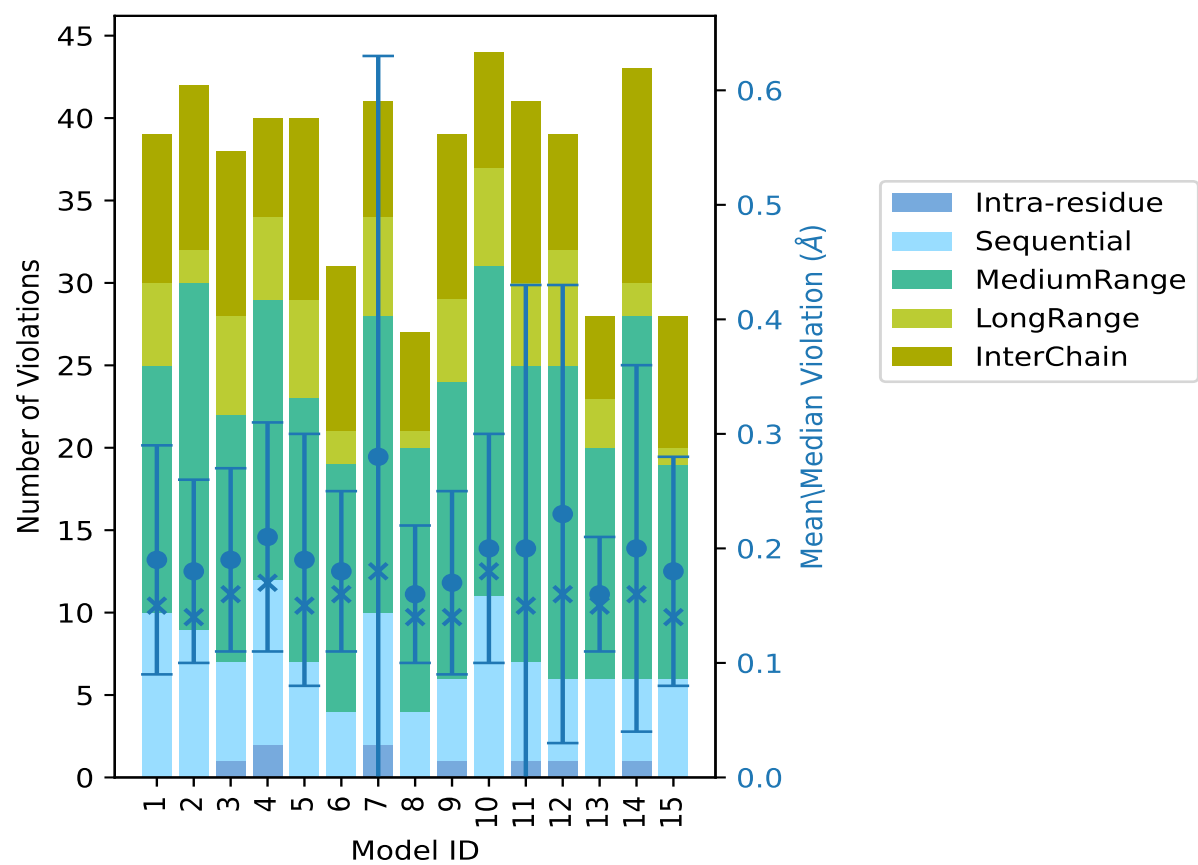
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	1	6	18	5	11	41	0.2	1.57	0.23	0.15
12	1	5	19	7	7	39	0.23	1.31	0.2	0.16
13	0	6	14	3	5	28	0.16	0.29	0.05	0.15
14	1	5	22	2	13	43	0.2	1.08	0.16	0.16
15	0	6	13	1	8	28	0.18	0.6	0.1	0.14

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

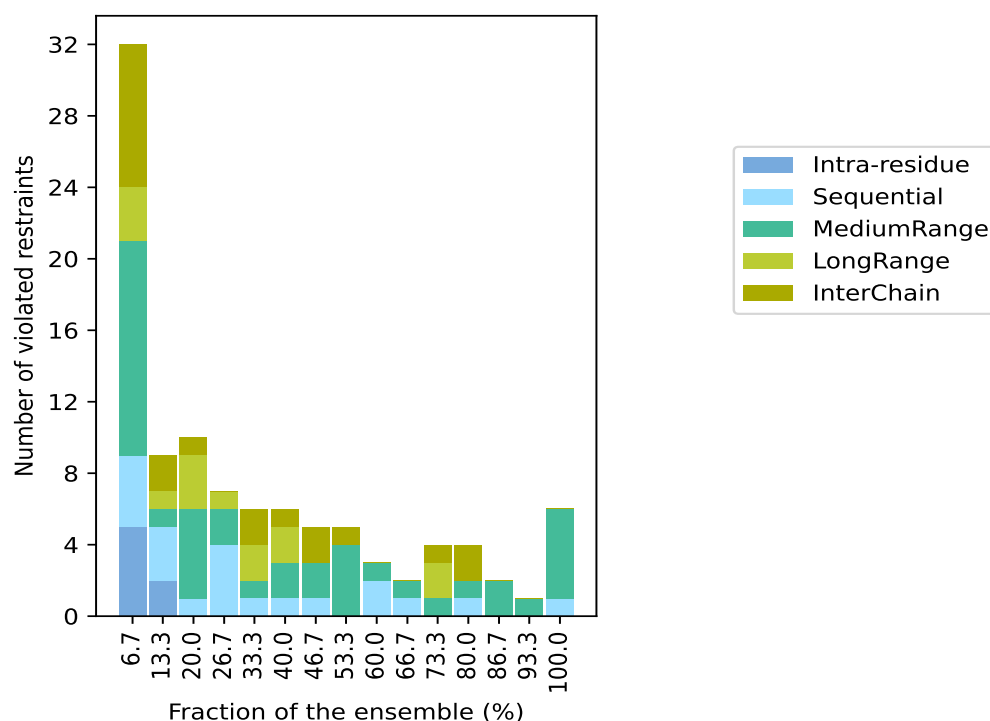
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1905(IR:792, SQ:429, MR:334, LR:153, IC:197) restraints are 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	%
5	4	12	3	8	32	1	6.7
2	3	1	1	2	9	2	13.3
0	1	5	3	1	10	3	20.0
0	4	2	1	0	7	4	26.7
0	1	1	2	2	6	5	33.3
0	1	2	2	1	6	6	40.0
0	1	2	0	2	5	7	46.7
0	0	4	0	1	5	8	53.3
0	2	1	0	0	3	9	60.0
0	1	1	0	0	2	10	66.7
0	0	1	2	1	4	11	73.3
0	1	1	0	2	4	12	80.0
0	0	2	0	0	2	13	86.7
0	0	1	0	0	1	14	93.3
0	1	5	0	0	6	15	100.0

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

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

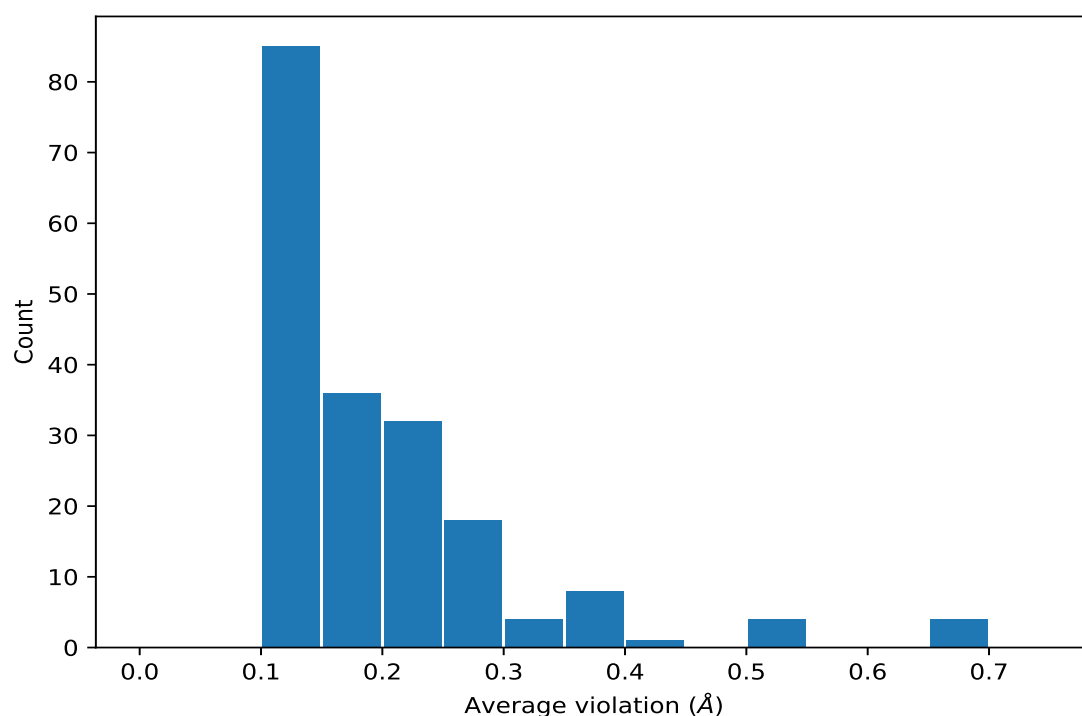
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(2,1273)	2:70:B:ILE:HD11	2:73:B:LEU:H	15	0.31	0.02	0.31
(2,1273)	2:70:B:ILE:HD12	2:73:B:LEU:H	15	0.31	0.02	0.31
(2,1273)	2:70:B:ILE:HD13	2:73:B:LEU:H	15	0.31	0.02	0.31
(2,728)	2:36:B:TYR:HE1	2:32:B:LEU:H	15	0.27	0.08	0.26
(2,728)	2:36:B:TYR:HE2	2:32:B:LEU:H	15	0.27	0.08	0.26
(2,737)	2:73:B:LEU:H	2:70:B:ILE:H	15	0.21	0.03	0.21
(2,734)	2:78:B:ILE:HA	2:80:B:ALA:H	15	0.19	0.04	0.18
(2,1315)	2:81:B:LYS:HG2	2:80:B:ALA:H	15	0.18	0.06	0.16
(2,1315)	2:81:B:LYS:HG3	2:80:B:ALA:H	15	0.18	0.06	0.16
(2,885)	2:32:B:LEU:H	2:35:B:ARG:H	15	0.16	0.03	0.16
(2,1116)	2:65:B:ASN:HA	2:67:B:ALA:H	14	0.13	0.02	0.12
(2,143)	1:349:A:ASN:H	1:351:A:ALA:H	13	0.14	0.03	0.14
(2,939)	2:69:B:ALA:H	2:66:B:ASN:H	13	0.13	0.01	0.13
(2,2001)	1:352:A:ILE:HD12	2:67:B:ALA:H	12	0.27	0.11	0.25
(2,2001)	1:345:A:VAL:HG23	2:67:B:ALA:H	12	0.27	0.11	0.25
(2,2001)	1:345:A:VAL:HG22	2:67:B:ALA:H	12	0.27	0.11	0.25

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,2001)	1:345:A:VAL:HG21	2:67:B:ALA:H	12	0.27	0.11	0.25
(2,2001)	1:352:A:ILE:HD11	2:67:B:ALA:H	12	0.27	0.11	0.25
(2,1102)	2:37:B:TYR:H	2:40:B:LEU:H	12	0.21	0.04	0.22
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB1	12	0.21	0.12	0.17
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB2	12	0.21	0.12	0.17
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB3	12	0.21	0.12	0.17
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB1	12	0.21	0.12	0.17
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB2	12	0.21	0.12	0.17
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB3	12	0.21	0.12	0.17
(2,863)	2:80:B:ALA:H	2:81:B:LYS:H	12	0.11	0.01	0.11
(2,2002)	1:345:A:VAL:HG21	2:68:B:ALA:H	11	0.36	0.15	0.37
(2,2002)	1:345:A:VAL:HG23	2:68:B:ALA:H	11	0.36	0.15	0.37
(2,2002)	1:345:A:VAL:HG22	2:68:B:ALA:H	11	0.36	0.15	0.37
(2,1706)	2:77:B:LYS:HG2	2:74:B:GLU:HA	11	0.21	0.06	0.24
(2,1706)	2:77:B:LYS:HG3	2:74:B:GLU:HA	11	0.21	0.06	0.24
(2,1282)	2:75:B:LEU:HG	2:80:B:ALA:H	11	0.15	0.02	0.16
(2,1256)	2:41:B:THR:HG21	2:68:B:ALA:H	11	0.14	0.03	0.13
(2,1256)	2:41:B:THR:HG22	2:68:B:ALA:H	11	0.14	0.03	0.13
(2,1256)	2:41:B:THR:HG23	2:68:B:ALA:H	11	0.14	0.03	0.13
(4,1)	2:44:B:CYS:SG	3:201:B:ZN:ZN	11	0.12	0.01	0.12
(2,1026)	2:54:B:CYS:H	2:51:B:ASN:H	10	0.23	0.03	0.23
(4,5)	2:44:B:CYS:CB	3:201:B:ZN:ZN	10	0.15	0.04	0.14
(2,1077)	2:81:B:LYS:H	2:82:B:LEU:H	10	0.1	0.0	0.1
(2,1195)	2:82:B:LEU:HG	2:83:B:CYS:H	9	0.19	0.05	0.19
(2,1070)	2:68:B:ALA:HB1	2:66:B:ASN:H	9	0.13	0.02	0.13
(2,1070)	2:68:B:ALA:HB2	2:66:B:ASN:H	9	0.13	0.02	0.13
(2,1070)	2:68:B:ALA:HB3	2:66:B:ASN:H	9	0.13	0.02	0.13
(2,1170)	2:26:B:ARG:HD2	2:27:B:ALA:H	9	0.12	0.02	0.12
(2,1170)	2:26:B:ARG:HD3	2:27:B:ALA:H	9	0.12	0.02	0.12
(5,8)	1:323:A:GLU:OE1	2:25:B:LYS:NZ	8	0.37	0.3	0.24
(5,8)	1:323:A:GLU:OE2	2:25:B:LYS:NZ	8	0.37	0.3	0.24
(2,1759)	2:78:B:ILE:HB	2:75:B:LEU:HA	8	0.33	0.03	0.34
(2,1061)	2:68:B:ALA:HB1	2:64:B:ASP:H	8	0.17	0.06	0.16
(2,1061)	2:68:B:ALA:HB2	2:64:B:ASP:H	8	0.17	0.06	0.16
(2,1061)	2:68:B:ALA:HB3	2:64:B:ASP:H	8	0.17	0.06	0.16
(2,1291)	2:78:B:ILE:HG21	2:80:B:ALA:H	8	0.16	0.03	0.16
(2,1291)	2:78:B:ILE:HG22	2:80:B:ALA:H	8	0.16	0.03	0.16
(2,1291)	2:78:B:ILE:HG23	2:80:B:ALA:H	8	0.16	0.03	0.16
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE1	8	0.12	0.01	0.12
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE2	8	0.12	0.01	0.12
(2,1900)	1:339:A:LEU:HD11	2:73:B:LEU:HG	8	0.12	0.02	0.12
(2,1900)	1:339:A:LEU:HD12	2:73:B:LEU:HG	8	0.12	0.02	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1900)	1:339:A:LEU:HD13	2:73:B:LEU:HG	8	0.12	0.02	0.12
(2,1900)	1:339:A:LEU:HD21	2:73:B:LEU:HG	8	0.12	0.02	0.12
(2,1900)	1:339:A:LEU:HD22	2:73:B:LEU:HG	8	0.12	0.02	0.12
(2,1900)	1:339:A:LEU:HD23	2:73:B:LEU:HG	8	0.12	0.02	0.12
(2,1653)	2:75:B:LEU:HA	2:78:B:ILE:HG12	7	0.25	0.04	0.24
(2,1653)	2:75:B:LEU:HA	2:78:B:ILE:HG13	7	0.25	0.04	0.24
(2,1953)	1:352:A:ILE:HD11	2:69:B:ALA:HA	7	0.24	0.04	0.24
(2,1953)	1:352:A:ILE:HD12	2:69:B:ALA:HA	7	0.24	0.04	0.24
(2,1953)	1:352:A:ILE:HD13	2:69:B:ALA:HA	7	0.24	0.04	0.24
(2,1229)	2:77:B:LYS:HD2	2:78:B:ILE:H	7	0.23	0.08	0.27
(2,1229)	2:77:B:LYS:HD3	2:78:B:ILE:H	7	0.23	0.08	0.27
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD11	7	0.15	0.04	0.13
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD12	7	0.15	0.04	0.13
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD13	7	0.15	0.04	0.13
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB1	7	0.12	0.01	0.11
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB2	7	0.12	0.01	0.11
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB3	7	0.12	0.01	0.11
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB1	7	0.12	0.01	0.11
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB2	7	0.12	0.01	0.11
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB3	7	0.12	0.01	0.11
(2,1024)	2:63:B:MET:HG2	2:68:B:ALA:H	6	0.3	0.1	0.34
(2,1024)	2:63:B:MET:HG3	2:68:B:ALA:H	6	0.3	0.1	0.34
(5,7)	1:324:A:ASP:OD1	2:25:B:LYS:NZ	6	0.3	0.33	0.14
(2,389)	1:352:A:ILE:HD11	1:353:A:ARG:H	6	0.19	0.05	0.22
(2,389)	1:352:A:ILE:HD12	1:353:A:ARG:H	6	0.19	0.05	0.22
(2,389)	1:352:A:ILE:HD13	1:353:A:ARG:H	6	0.19	0.05	0.22
(2,819)	2:44:B:CYS:H	2:56:B:SER:H	6	0.17	0.04	0.16
(2,1288)	2:78:B:ILE:HB	2:80:B:ALA:H	6	0.15	0.01	0.15
(2,1057)	2:68:B:ALA:H	2:65:B:ASN:H	6	0.13	0.02	0.13
(2,1809)	1:328:A:VAL:HG11	2:26:B:ARG:HA	6	0.12	0.01	0.12
(2,1809)	1:328:A:VAL:HG12	2:26:B:ARG:HA	6	0.12	0.01	0.12
(2,1809)	1:328:A:VAL:HG13	2:26:B:ARG:HA	6	0.12	0.01	0.12
(2,1411)	2:54:B:CYS:HA	2:39:B:GLN:HG2	5	0.52	0.54	0.31
(2,1411)	2:54:B:CYS:HA	2:39:B:GLN:HG3	5	0.52	0.54	0.31
(2,1973)	1:356:A:MET:HE1	2:70:B:ILE:HA	5	0.27	0.16	0.17
(2,1973)	1:356:A:MET:HE2	2:70:B:ILE:HA	5	0.27	0.16	0.17
(2,1973)	1:356:A:MET:HE3	2:70:B:ILE:HA	5	0.27	0.16	0.17
(2,919)	2:36:B:TYR:HE1	2:80:B:ALA:H	5	0.17	0.03	0.17
(2,919)	2:36:B:TYR:HE2	2:80:B:ALA:H	5	0.17	0.03	0.17
(2,1357)	2:34:B:GLU:HG2	2:31:B:HIS:HA	5	0.15	0.06	0.12
(2,1357)	2:34:B:GLU:HG3	2:31:B:HIS:HA	5	0.15	0.06	0.12
(2,1996)	1:345:A:VAL:HA	2:65:B:ASN:HD21	5	0.14	0.06	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1996)	1:345:A:VAL:HA	2:65:B:ASN:HD22	5	0.14	0.06	0.12
(2,305)	1:339:A:LEU:HB2	1:338:A:VAL:H	5	0.12	0.01	0.12
(2,305)	1:339:A:LEU:HB3	1:338:A:VAL:H	5	0.12	0.01	0.12
(2,802)	2:53:B:PHE:HE1	2:51:B:ASN:HD21	4	0.66	0.91	0.16
(2,802)	2:53:B:PHE:HE1	2:51:B:ASN:HD22	4	0.66	0.91	0.16
(2,802)	2:53:B:PHE:HE2	2:51:B:ASN:HD21	4	0.66	0.91	0.16
(2,802)	2:53:B:PHE:HE2	2:51:B:ASN:HD22	4	0.66	0.91	0.16
(2,966)	2:25:B:LYS:HE2	2:26:B:ARG:H	4	0.28	0.08	0.3
(2,966)	2:25:B:LYS:HE3	2:26:B:ARG:H	4	0.28	0.08	0.3
(2,323)	1:321:A:LYS:HA	1:322:A:GLU:H	4	0.26	0.08	0.28
(2,1635)	2:37:B:TYR:HE1	2:72:B:ALA:HB1	4	0.16	0.09	0.12
(2,1635)	2:37:B:TYR:HE1	2:72:B:ALA:HB2	4	0.16	0.09	0.12
(2,1635)	2:37:B:TYR:HE1	2:72:B:ALA:HB3	4	0.16	0.09	0.12
(2,1635)	2:37:B:TYR:HE2	2:72:B:ALA:HB1	4	0.16	0.09	0.12
(2,1635)	2:37:B:TYR:HE2	2:72:B:ALA:HB2	4	0.16	0.09	0.12
(2,1635)	2:37:B:TYR:HE2	2:72:B:ALA:HB3	4	0.16	0.09	0.12
(2,451)	1:358:A:SER:HA	1:361:A:SER:HB2	4	0.14	0.02	0.14
(2,451)	1:358:A:SER:HA	1:361:A:SER:HB3	4	0.14	0.02	0.14
(2,1179)	2:55:B:ALA:H	2:56:B:SER:H	4	0.12	0.01	0.12
(2,922)	2:62:B:ARG:H	2:63:B:MET:H	4	0.11	0.02	0.11
(2,1403)	2:74:B:GLU:HA	2:77:B:LYS:HE2	3	0.52	0.56	0.15
(2,1403)	2:74:B:GLU:HA	2:77:B:LYS:HE3	3	0.52	0.56	0.15
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD11	3	0.2	0.01	0.2
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD12	3	0.2	0.01	0.2
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD13	3	0.2	0.01	0.2
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD21	3	0.2	0.01	0.2
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD22	3	0.2	0.01	0.2
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD23	3	0.2	0.01	0.2
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD11	3	0.2	0.01	0.2
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD12	3	0.2	0.01	0.2
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD13	3	0.2	0.01	0.2
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD21	3	0.2	0.01	0.2
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD22	3	0.2	0.01	0.2
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD23	3	0.2	0.01	0.2
(2,841)	2:54:B:CYS:H	2:57:B:CYS:H	3	0.15	0.01	0.15
(2,1330)	2:80:B:ALA:HB1	2:78:B:ILE:HB	3	0.15	0.01	0.15
(2,1330)	2:80:B:ALA:HB2	2:78:B:ILE:HB	3	0.15	0.01	0.15
(2,1330)	2:80:B:ALA:HB3	2:78:B:ILE:HB	3	0.15	0.01	0.15
(4,6)	2:49:B:CYS:CB	3:201:B:ZN:ZN	3	0.14	0.01	0.14
(2,1423)	2:60:B:PHE:HD1	2:62:B:ARG:HB2	3	0.13	0.01	0.13
(2,1423)	2:60:B:PHE:HD1	2:62:B:ARG:HB3	3	0.13	0.01	0.13
(2,1423)	2:60:B:PHE:HD2	2:62:B:ARG:HB2	3	0.13	0.01	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1423)	2:60:B:PHE:HD2	2:62:B:ARG:HB3	3	0.13	0.01	0.13
(2,1943)	1:351:A:ALA:HA	2:70:B:ILE:HG12	3	0.13	0.0	0.13
(2,1943)	1:351:A:ALA:HA	2:70:B:ILE:HG13	3	0.13	0.0	0.13
(2,695)	1:339:A:LEU:HD11	1:347:A:PRO:HB2	3	0.12	0.01	0.12
(2,695)	1:339:A:LEU:HD11	1:347:A:PRO:HB3	3	0.12	0.01	0.12
(2,695)	1:339:A:LEU:HD12	1:347:A:PRO:HB2	3	0.12	0.01	0.12
(2,695)	1:339:A:LEU:HD12	1:347:A:PRO:HB3	3	0.12	0.01	0.12
(2,695)	1:339:A:LEU:HD13	1:347:A:PRO:HB2	3	0.12	0.01	0.12
(2,695)	1:339:A:LEU:HD13	1:347:A:PRO:HB3	3	0.12	0.01	0.12
(2,695)	1:339:A:LEU:HD21	1:347:A:PRO:HB2	3	0.12	0.01	0.12
(2,695)	1:339:A:LEU:HD21	1:347:A:PRO:HB3	3	0.12	0.01	0.12
(2,695)	1:339:A:LEU:HD22	1:347:A:PRO:HB2	3	0.12	0.01	0.12
(2,695)	1:339:A:LEU:HD22	1:347:A:PRO:HB3	3	0.12	0.01	0.12
(2,695)	1:339:A:LEU:HD23	1:347:A:PRO:HB2	3	0.12	0.01	0.12
(2,695)	1:339:A:LEU:HD23	1:347:A:PRO:HB3	3	0.12	0.01	0.12
(2,750)	2:58:B:PRO:HD2	2:51:B:ASN:H	3	0.11	0.0	0.11
(2,750)	2:58:B:PRO:HD3	2:51:B:ASN:H	3	0.11	0.0	0.11
(2,1436)	2:60:B:PHE:HE1	2:40:B:LEU:HA	3	0.11	0.0	0.11
(2,1436)	2:60:B:PHE:HE2	2:40:B:LEU:HA	3	0.11	0.0	0.11
(2,967)	2:46:B:ASN:H	2:47:B:GLU:H	3	0.1	0.0	0.1
(2,1244)	2:32:B:LEU:HG	2:33:B:ILE:H	2	0.4	0.02	0.4
(2,1035)	2:52:B:GLU:HG2	2:52:B:GLU:H	2	0.39	0.01	0.39
(2,1035)	2:52:B:GLU:HG3	2:52:B:GLU:H	2	0.39	0.01	0.39
(2,1280)	2:75:B:LEU:HG	2:76:B:TYR:H	2	0.36	0.0	0.36
(2,1231)	2:77:B:LYS:HE2	2:77:B:LYS:H	2	0.24	0.15	0.24
(2,1231)	2:77:B:LYS:HE3	2:77:B:LYS:H	2	0.24	0.15	0.24
(2,1184)	2:60:B:PHE:HE1	2:62:B:ARG:H	2	0.2	0.04	0.2
(2,1184)	2:60:B:PHE:HE2	2:62:B:ARG:H	2	0.2	0.04	0.2
(2,1959)	1:352:A:ILE:HG12	2:70:B:ILE:HD11	2	0.18	0.0	0.18
(2,1959)	1:352:A:ILE:HG12	2:70:B:ILE:HD12	2	0.18	0.0	0.18
(2,1959)	1:352:A:ILE:HG12	2:70:B:ILE:HD13	2	0.18	0.0	0.18
(2,1959)	1:352:A:ILE:HG13	2:70:B:ILE:HD11	2	0.18	0.0	0.18
(2,1959)	1:352:A:ILE:HG13	2:70:B:ILE:HD12	2	0.18	0.0	0.18
(2,1959)	1:352:A:ILE:HG13	2:70:B:ILE:HD13	2	0.18	0.0	0.18
(2,1542)	2:63:B:MET:HG2	2:68:B:ALA:HB1	2	0.16	0.01	0.16
(2,1542)	2:63:B:MET:HG2	2:68:B:ALA:HB2	2	0.16	0.01	0.16
(2,1542)	2:63:B:MET:HG2	2:68:B:ALA:HB3	2	0.16	0.01	0.16
(2,1542)	2:63:B:MET:HG3	2:68:B:ALA:HB1	2	0.16	0.01	0.16
(2,1542)	2:63:B:MET:HG3	2:68:B:ALA:HB2	2	0.16	0.01	0.16
(2,1542)	2:63:B:MET:HG3	2:68:B:ALA:HB3	2	0.16	0.01	0.16
(4,8)	2:83:B:CYS:CB	3:201:B:ZN:ZN	2	0.16	0.02	0.16
(2,795)	2:77:B:LYS:HB2	2:76:B:TYR:H	2	0.12	0.02	0.12

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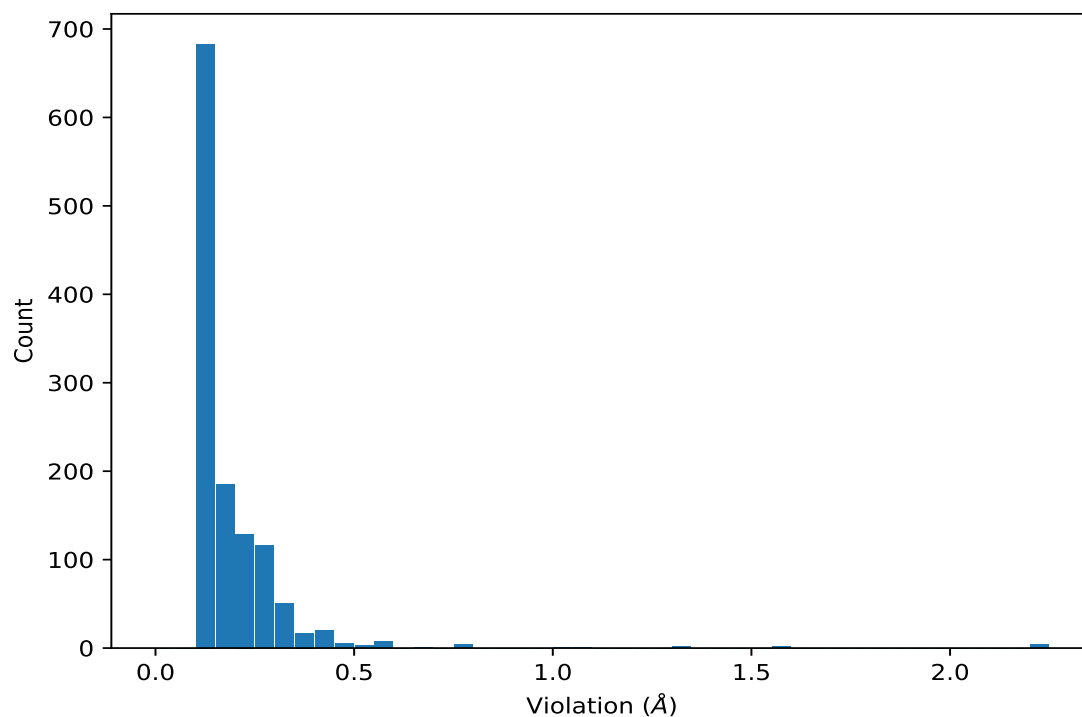
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,795)	2:77:B:LYS:HB3	2:76:B:TYR:H	2	0.12	0.02	0.12
(2,1994)	1:342:A:LEU:HD11	2:69:B:ALA:H	2	0.12	0.0	0.12
(2,1994)	1:342:A:LEU:HD12	2:69:B:ALA:H	2	0.12	0.0	0.12
(2,1994)	1:342:A:LEU:HD13	2:69:B:ALA:H	2	0.12	0.0	0.12
(2,1994)	1:342:A:LEU:HD21	2:69:B:ALA:H	2	0.12	0.0	0.12
(2,1994)	1:342:A:LEU:HD22	2:69:B:ALA:H	2	0.12	0.0	0.12
(2,1994)	1:342:A:LEU:HD23	2:69:B:ALA:H	2	0.12	0.0	0.12
(4,7)	2:54:B:CYS:CB	3:201:B:ZN:ZN	2	0.12	0.01	0.12

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,802)	2:53:B:PHE:HE1	2:51:B:ASN:HD21	7	2.23
(2,802)	2:53:B:PHE:HE1	2:51:B:ASN:HD22	7	2.23
(2,802)	2:53:B:PHE:HE2	2:51:B:ASN:HD21	7	2.23
(2,802)	2:53:B:PHE:HE2	2:51:B:ASN:HD22	7	2.23
(2,1411)	2:54:B:CYS:HA	2:39:B:GLN:HG2	11	1.57
(2,1411)	2:54:B:CYS:HA	2:39:B:GLN:HG3	11	1.57
(2,1403)	2:74:B:GLU:HA	2:77:B:LYS:HE2	12	1.31
(2,1403)	2:74:B:GLU:HA	2:77:B:LYS:HE3	12	1.31
(5,8)	1:323:A:GLU:OE1	2:25:B:LYS:NZ	14	1.08
(5,7)	1:324:A:ASP:OD1	2:25:B:LYS:NZ	7	1.02
(2,801)	2:53:B:PHE:HD1	2:51:B:ASN:HD21	7	0.76
(2,801)	2:53:B:PHE:HD1	2:51:B:ASN:HD22	7	0.76
(2,801)	2:53:B:PHE:HD2	2:51:B:ASN:HD21	7	0.76
(2,801)	2:53:B:PHE:HD2	2:51:B:ASN:HD22	7	0.76
(2,2002)	1:345:A:VAL:HG23	2:68:B:ALA:H	5	0.67
(5,8)	1:323:A:GLU:OE1	2:25:B:LYS:NZ	15	0.6
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB1	10	0.56
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB2	10	0.56
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB3	10	0.56
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB1	10	0.56
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB2	10	0.56
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB3	10	0.56
(2,1973)	1:356:A:MET:HE1	2:70:B:ILE:HA	1	0.5
(2,1973)	1:356:A:MET:HE2	2:70:B:ILE:HA	1	0.5
(2,1973)	1:356:A:MET:HE3	2:70:B:ILE:HA	1	0.5
(2,2002)	1:345:A:VAL:HG22	2:68:B:ALA:H	12	0.49
(2,2001)	1:352:A:ILE:HD12	2:67:B:ALA:H	1	0.47
(2,2002)	1:345:A:VAL:HG23	2:68:B:ALA:H	3	0.46
(2,728)	2:36:B:TYR:HE1	2:32:B:LEU:H	5	0.45
(2,728)	2:36:B:TYR:HE2	2:32:B:LEU:H	5	0.45
(2,2001)	1:352:A:ILE:HD11	2:67:B:ALA:H	9	0.44
(2,299)	1:323:A:GLU:HG2	1:323:A:GLU:H	4	0.44
(2,299)	1:323:A:GLU:HG3	1:323:A:GLU:H	4	0.44
(2,1973)	1:356:A:MET:HE1	2:70:B:ILE:HA	14	0.43
(2,1973)	1:356:A:MET:HE2	2:70:B:ILE:HA	14	0.43
(2,1973)	1:356:A:MET:HE3	2:70:B:ILE:HA	14	0.43
(2,1411)	2:54:B:CYS:HA	2:39:B:GLN:HG2	12	0.43
(2,1411)	2:54:B:CYS:HA	2:39:B:GLN:HG3	12	0.43
(2,1244)	2:32:B:LEU:HG	2:33:B:ILE:H	2	0.43
(2,728)	2:36:B:TYR:HE1	2:32:B:LEU:H	3	0.43
(2,728)	2:36:B:TYR:HE2	2:32:B:LEU:H	3	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2002)	1:345:A:VAL:HG21	2:68:B:ALA:H	1	0.41
(2,1790)	1:324:A:ASP:HA	2:25:B:LYS:HE2	14	0.41
(2,1790)	1:324:A:ASP:HA	2:25:B:LYS:HE3	14	0.41
(2,1035)	2:52:B:GLU:HG2	2:52:B:GLU:H	7	0.4
(2,1035)	2:52:B:GLU:HG3	2:52:B:GLU:H	7	0.4
(2,1024)	2:63:B:MET:HG2	2:68:B:ALA:H	1	0.4
(2,1024)	2:63:B:MET:HG3	2:68:B:ALA:H	1	0.4
(2,1024)	2:63:B:MET:HG2	2:68:B:ALA:H	10	0.4
(2,1024)	2:63:B:MET:HG3	2:68:B:ALA:H	10	0.4
(2,1231)	2:77:B:LYS:HE2	2:77:B:LYS:H	12	0.39
(2,1231)	2:77:B:LYS:HE3	2:77:B:LYS:H	12	0.39
(2,2002)	1:345:A:VAL:HG23	2:68:B:ALA:H	9	0.38
(2,1244)	2:32:B:LEU:HG	2:33:B:ILE:H	10	0.38
(2,1035)	2:52:B:GLU:HG2	2:52:B:GLU:H	4	0.38
(2,1035)	2:52:B:GLU:HG3	2:52:B:GLU:H	4	0.38
(2,2002)	1:345:A:VAL:HG21	2:68:B:ALA:H	7	0.37
(2,2001)	1:345:A:VAL:HG23	2:67:B:ALA:H	5	0.37
(2,1024)	2:63:B:MET:HG2	2:68:B:ALA:H	4	0.37
(2,1024)	2:63:B:MET:HG3	2:68:B:ALA:H	4	0.37
(2,966)	2:25:B:LYS:HE2	2:26:B:ARG:H	4	0.37
(2,966)	2:25:B:LYS:HE3	2:26:B:ARG:H	4	0.37
(2,1315)	2:81:B:LYS:HG2	2:80:B:ALA:H	4	0.36
(2,1315)	2:81:B:LYS:HG3	2:80:B:ALA:H	4	0.36
(2,1280)	2:75:B:LEU:HG	2:76:B:TYR:H	2	0.36
(2,1280)	2:75:B:LEU:HG	2:76:B:TYR:H	6	0.36
(2,323)	1:321:A:LYS:HA	1:322:A:GLU:H	7	0.36
(2,2002)	1:345:A:VAL:HG23	2:68:B:ALA:H	2	0.35
(2,1759)	2:78:B:ILE:HB	2:75:B:LEU:HA	4	0.35
(2,1759)	2:78:B:ILE:HB	2:75:B:LEU:HA	5	0.35
(2,1273)	2:70:B:ILE:HD11	2:73:B:LEU:H	7	0.35
(2,1273)	2:70:B:ILE:HD12	2:73:B:LEU:H	7	0.35
(2,1273)	2:70:B:ILE:HD13	2:73:B:LEU:H	7	0.35
(5,8)	1:323:A:GLU:OE2	2:25:B:LYS:NZ	4	0.34
(2,2001)	1:345:A:VAL:HG21	2:67:B:ALA:H	7	0.34
(2,1759)	2:78:B:ILE:HB	2:75:B:LEU:HA	7	0.34
(2,1759)	2:78:B:ILE:HB	2:75:B:LEU:HA	8	0.34
(2,1759)	2:78:B:ILE:HB	2:75:B:LEU:HA	10	0.34
(2,1759)	2:78:B:ILE:HB	2:75:B:LEU:HA	12	0.34
(2,1273)	2:70:B:ILE:HD11	2:73:B:LEU:H	2	0.34
(2,1273)	2:70:B:ILE:HD12	2:73:B:LEU:H	2	0.34
(2,1273)	2:70:B:ILE:HD13	2:73:B:LEU:H	2	0.34
(2,1273)	2:70:B:ILE:HD11	2:73:B:LEU:H	10	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1273)	2:70:B:ILE:HD12	2:73:B:LEU:H	10	0.34
(2,1273)	2:70:B:ILE:HD13	2:73:B:LEU:H	10	0.34
(2,1229)	2:77:B:LYS:HD2	2:78:B:ILE:H	10	0.34
(2,1229)	2:77:B:LYS:HD3	2:78:B:ILE:H	10	0.34
(2,438)	1:342:A:LEU:HG	1:342:A:LEU:H	11	0.34
(2,1653)	2:75:B:LEU:HA	2:78:B:ILE:HG12	2	0.33
(2,1653)	2:75:B:LEU:HA	2:78:B:ILE:HG13	2	0.33
(2,1759)	2:78:B:ILE:HB	2:75:B:LEU:HA	3	0.32
(2,1635)	2:37:B:TYR:HE1	2:72:B:ALA:HB1	12	0.32
(2,1635)	2:37:B:TYR:HE1	2:72:B:ALA:HB2	12	0.32
(2,1635)	2:37:B:TYR:HE1	2:72:B:ALA:HB3	12	0.32
(2,1635)	2:37:B:TYR:HE2	2:72:B:ALA:HB1	12	0.32
(2,1635)	2:37:B:TYR:HE2	2:72:B:ALA:HB2	12	0.32
(2,1635)	2:37:B:TYR:HE2	2:72:B:ALA:HB3	12	0.32
(2,1273)	2:70:B:ILE:HD11	2:73:B:LEU:H	4	0.32
(2,1273)	2:70:B:ILE:HD12	2:73:B:LEU:H	4	0.32
(2,1273)	2:70:B:ILE:HD13	2:73:B:LEU:H	4	0.32
(2,1273)	2:70:B:ILE:HD11	2:73:B:LEU:H	5	0.32
(2,1273)	2:70:B:ILE:HD12	2:73:B:LEU:H	5	0.32
(2,1273)	2:70:B:ILE:HD13	2:73:B:LEU:H	5	0.32
(2,1273)	2:70:B:ILE:HD11	2:73:B:LEU:H	9	0.32
(2,1273)	2:70:B:ILE:HD12	2:73:B:LEU:H	9	0.32
(2,1273)	2:70:B:ILE:HD13	2:73:B:LEU:H	9	0.32
(2,1411)	2:54:B:CYS:HA	2:39:B:GLN:HG2	4	0.31
(2,1411)	2:54:B:CYS:HA	2:39:B:GLN:HG3	4	0.31
(2,1273)	2:70:B:ILE:HD11	2:73:B:LEU:H	12	0.31
(2,1273)	2:70:B:ILE:HD12	2:73:B:LEU:H	12	0.31
(2,1273)	2:70:B:ILE:HD13	2:73:B:LEU:H	12	0.31
(2,1273)	2:70:B:ILE:HD11	2:73:B:LEU:H	14	0.31
(2,1273)	2:70:B:ILE:HD12	2:73:B:LEU:H	14	0.31
(2,1273)	2:70:B:ILE:HD13	2:73:B:LEU:H	14	0.31
(2,1273)	2:70:B:ILE:HD11	2:73:B:LEU:H	15	0.31
(2,1273)	2:70:B:ILE:HD12	2:73:B:LEU:H	15	0.31
(2,1273)	2:70:B:ILE:HD13	2:73:B:LEU:H	15	0.31
(2,2002)	1:345:A:VAL:HG22	2:68:B:ALA:H	10	0.3
(2,1273)	2:70:B:ILE:HD11	2:73:B:LEU:H	1	0.3
(2,1273)	2:70:B:ILE:HD12	2:73:B:LEU:H	1	0.3
(2,1273)	2:70:B:ILE:HD13	2:73:B:LEU:H	1	0.3
(2,1273)	2:70:B:ILE:HD11	2:73:B:LEU:H	6	0.3
(2,1273)	2:70:B:ILE:HD12	2:73:B:LEU:H	6	0.3
(2,1273)	2:70:B:ILE:HD13	2:73:B:LEU:H	6	0.3
(2,1273)	2:70:B:ILE:HD11	2:73:B:LEU:H	11	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1273)	2:70:B:ILE:HD12	2:73:B:LEU:H	11	0.3
(2,1273)	2:70:B:ILE:HD13	2:73:B:LEU:H	11	0.3
(2,1024)	2:63:B:MET:HG2	2:68:B:ALA:H	5	0.3
(2,1024)	2:63:B:MET:HG3	2:68:B:ALA:H	5	0.3
(2,966)	2:25:B:LYS:HE2	2:26:B:ARG:H	10	0.3
(2,966)	2:25:B:LYS:HE3	2:26:B:ARG:H	10	0.3
(2,1953)	1:352:A:ILE:HD11	2:69:B:ALA:HA	1	0.29
(2,1953)	1:352:A:ILE:HD12	2:69:B:ALA:HA	1	0.29
(2,1953)	1:352:A:ILE:HD13	2:69:B:ALA:HA	1	0.29
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB1	12	0.29
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB2	12	0.29
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB3	12	0.29
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB1	12	0.29
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB2	12	0.29
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB3	12	0.29
(2,1706)	2:77:B:LYS:HG2	2:74:B:GLU:HA	12	0.29
(2,1706)	2:77:B:LYS:HG3	2:74:B:GLU:HA	12	0.29
(2,1273)	2:70:B:ILE:HD11	2:73:B:LEU:H	13	0.29
(2,1273)	2:70:B:ILE:HD12	2:73:B:LEU:H	13	0.29
(2,1273)	2:70:B:ILE:HD13	2:73:B:LEU:H	13	0.29
(2,966)	2:25:B:LYS:HE2	2:26:B:ARG:H	9	0.29
(2,966)	2:25:B:LYS:HE3	2:26:B:ARG:H	9	0.29
(2,737)	2:73:B:LEU:H	2:70:B:ILE:H	2	0.29
(2,728)	2:36:B:TYR:HE1	2:32:B:LEU:H	9	0.29
(2,728)	2:36:B:TYR:HE2	2:32:B:LEU:H	9	0.29
(2,728)	2:36:B:TYR:HE1	2:32:B:LEU:H	11	0.29
(2,728)	2:36:B:TYR:HE2	2:32:B:LEU:H	11	0.29
(2,728)	2:36:B:TYR:HE1	2:32:B:LEU:H	13	0.29
(2,728)	2:36:B:TYR:HE2	2:32:B:LEU:H	13	0.29
(2,323)	1:321:A:LYS:HA	1:322:A:GLU:H	13	0.29
(5,8)	1:323:A:GLU:OE1	2:25:B:LYS:NZ	11	0.28
(2,1953)	1:352:A:ILE:HD11	2:69:B:ALA:HA	10	0.28
(2,1953)	1:352:A:ILE:HD12	2:69:B:ALA:HA	10	0.28
(2,1953)	1:352:A:ILE:HD13	2:69:B:ALA:HA	10	0.28
(2,1653)	2:75:B:LEU:HA	2:78:B:ILE:HG12	6	0.28
(2,1653)	2:75:B:LEU:HA	2:78:B:ILE:HG13	6	0.28
(2,1273)	2:70:B:ILE:HD11	2:73:B:LEU:H	8	0.28
(2,1273)	2:70:B:ILE:HD12	2:73:B:LEU:H	8	0.28
(2,1273)	2:70:B:ILE:HD13	2:73:B:LEU:H	8	0.28
(2,1229)	2:77:B:LYS:HD2	2:78:B:ILE:H	5	0.28
(2,1229)	2:77:B:LYS:HD3	2:78:B:ILE:H	5	0.28
(2,1229)	2:77:B:LYS:HD2	2:78:B:ILE:H	15	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1229)	2:77:B:LYS:HD3	2:78:B:ILE:H	15	0.28
(2,1061)	2:68:B:ALA:HB1	2:64:B:ASP:H	3	0.28
(2,1061)	2:68:B:ALA:HB2	2:64:B:ASP:H	3	0.28
(2,1061)	2:68:B:ALA:HB3	2:64:B:ASP:H	3	0.28
(2,1026)	2:54:B:CYS:H	2:51:B:ASN:H	6	0.28
(2,728)	2:36:B:TYR:HE1	2:32:B:LEU:H	4	0.28
(2,728)	2:36:B:TYR:HE2	2:32:B:LEU:H	4	0.28
(2,728)	2:36:B:TYR:HE1	2:32:B:LEU:H	12	0.28
(2,728)	2:36:B:TYR:HE2	2:32:B:LEU:H	12	0.28
(2,1706)	2:77:B:LYS:HG2	2:74:B:GLU:HA	8	0.27
(2,1706)	2:77:B:LYS:HG3	2:74:B:GLU:HA	8	0.27
(2,1357)	2:34:B:GLU:HG2	2:31:B:HIS:HA	14	0.27
(2,1357)	2:34:B:GLU:HG3	2:31:B:HIS:HA	14	0.27
(2,1261)	2:59:B:THR:HG21	2:59:B:THR:H	14	0.27
(2,1261)	2:59:B:THR:HG22	2:59:B:THR:H	14	0.27
(2,1261)	2:59:B:THR:HG23	2:59:B:THR:H	14	0.27
(2,1229)	2:77:B:LYS:HD2	2:78:B:ILE:H	6	0.27
(2,1229)	2:77:B:LYS:HD3	2:78:B:ILE:H	6	0.27
(2,1195)	2:82:B:LEU:HG	2:83:B:CYS:H	7	0.27
(2,734)	2:78:B:ILE:HA	2:80:B:ALA:H	5	0.27
(2,323)	1:321:A:LYS:HA	1:322:A:GLU:H	3	0.27
(5,7)	1:324:A:ASP:OD1	2:25:B:LYS:NZ	15	0.26
(2,2002)	1:345:A:VAL:HG22	2:68:B:ALA:H	4	0.26
(2,1996)	1:345:A:VAL:HA	2:65:B:ASN:HD21	7	0.26
(2,1996)	1:345:A:VAL:HA	2:65:B:ASN:HD22	7	0.26
(2,1953)	1:352:A:ILE:HD11	2:69:B:ALA:HA	7	0.26
(2,1953)	1:352:A:ILE:HD12	2:69:B:ALA:HA	7	0.26
(2,1953)	1:352:A:ILE:HD13	2:69:B:ALA:HA	7	0.26
(2,1793)	1:323:A:GLU:HG2	2:25:B:LYS:HE2	14	0.26
(2,1793)	1:323:A:GLU:HG2	2:25:B:LYS:HE3	14	0.26
(2,1793)	1:323:A:GLU:HG3	2:25:B:LYS:HE2	14	0.26
(2,1793)	1:323:A:GLU:HG3	2:25:B:LYS:HE3	14	0.26
(2,1759)	2:78:B:ILE:HB	2:75:B:LEU:HA	1	0.26
(2,1706)	2:77:B:LYS:HG2	2:74:B:GLU:HA	11	0.26
(2,1706)	2:77:B:LYS:HG3	2:74:B:GLU:HA	11	0.26
(2,1653)	2:75:B:LEU:HA	2:78:B:ILE:HG12	14	0.26
(2,1653)	2:75:B:LEU:HA	2:78:B:ILE:HG13	14	0.26
(2,1273)	2:70:B:ILE:HD11	2:73:B:LEU:H	3	0.26
(2,1273)	2:70:B:ILE:HD12	2:73:B:LEU:H	3	0.26
(2,1273)	2:70:B:ILE:HD13	2:73:B:LEU:H	3	0.26
(2,1102)	2:37:B:TYR:H	2:40:B:LEU:H	1	0.26
(2,1102)	2:37:B:TYR:H	2:40:B:LEU:H	7	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1102)	2:37:B:TYR:H	2:40:B:LEU:H	14	0.26
(2,1026)	2:54:B:CYS:H	2:51:B:ASN:H	1	0.26
(2,1026)	2:54:B:CYS:H	2:51:B:ASN:H	11	0.26
(2,728)	2:36:B:TYR:HE1	2:32:B:LEU:H	1	0.26
(2,728)	2:36:B:TYR:HE2	2:32:B:LEU:H	1	0.26
(2,2001)	1:345:A:VAL:HG22	2:67:B:ALA:H	4	0.25
(2,2001)	1:345:A:VAL:HG22	2:67:B:ALA:H	6	0.25
(2,2001)	1:345:A:VAL:HG22	2:67:B:ALA:H	12	0.25
(2,1706)	2:77:B:LYS:HG2	2:74:B:GLU:HA	3	0.25
(2,1706)	2:77:B:LYS:HG3	2:74:B:GLU:HA	3	0.25
(2,1706)	2:77:B:LYS:HG2	2:74:B:GLU:HA	5	0.25
(2,1706)	2:77:B:LYS:HG3	2:74:B:GLU:HA	5	0.25
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD11	5	0.25
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD12	5	0.25
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD13	5	0.25
(2,1315)	2:81:B:LYS:HG2	2:80:B:ALA:H	6	0.25
(2,1315)	2:81:B:LYS:HG3	2:80:B:ALA:H	6	0.25
(2,1026)	2:54:B:CYS:H	2:51:B:ASN:H	7	0.25
(2,987)	2:71:B:LYS:HE2	2:71:B:LYS:H	3	0.25
(2,987)	2:71:B:LYS:HE3	2:71:B:LYS:H	3	0.25
(2,734)	2:78:B:ILE:HA	2:80:B:ALA:H	4	0.25
(2,734)	2:78:B:ILE:HA	2:80:B:ALA:H	10	0.25
(2,728)	2:36:B:TYR:HE1	2:32:B:LEU:H	10	0.25
(2,728)	2:36:B:TYR:HE2	2:32:B:LEU:H	10	0.25
(4,5)	2:44:B:CYS:CB	3:201:B:ZN:ZN	3	0.24
(2,1953)	1:352:A:ILE:HD11	2:69:B:ALA:HA	14	0.24
(2,1953)	1:352:A:ILE:HD12	2:69:B:ALA:HA	14	0.24
(2,1953)	1:352:A:ILE:HD13	2:69:B:ALA:HA	14	0.24
(2,1706)	2:77:B:LYS:HG2	2:74:B:GLU:HA	14	0.24
(2,1706)	2:77:B:LYS:HG3	2:74:B:GLU:HA	14	0.24
(2,1653)	2:75:B:LEU:HA	2:78:B:ILE:HG12	9	0.24
(2,1653)	2:75:B:LEU:HA	2:78:B:ILE:HG13	9	0.24
(2,1195)	2:82:B:LEU:HG	2:83:B:CYS:H	2	0.24
(2,1184)	2:60:B:PHE:HE1	2:62:B:ARG:H	14	0.24
(2,1184)	2:60:B:PHE:HE2	2:62:B:ARG:H	14	0.24
(2,1102)	2:37:B:TYR:H	2:40:B:LEU:H	15	0.24
(2,737)	2:73:B:LEU:H	2:70:B:ILE:H	8	0.24
(2,1953)	1:352:A:ILE:HD11	2:69:B:ALA:HA	15	0.23
(2,1953)	1:352:A:ILE:HD12	2:69:B:ALA:HA	15	0.23
(2,1953)	1:352:A:ILE:HD13	2:69:B:ALA:HA	15	0.23
(2,1706)	2:77:B:LYS:HG2	2:74:B:GLU:HA	10	0.23
(2,1706)	2:77:B:LYS:HG3	2:74:B:GLU:HA	10	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1653)	2:75:B:LEU:HA	2:78:B:ILE:HG12	11	0.23
(2,1653)	2:75:B:LEU:HA	2:78:B:ILE:HG13	11	0.23
(2,1653)	2:75:B:LEU:HA	2:78:B:ILE:HG12	13	0.23
(2,1653)	2:75:B:LEU:HA	2:78:B:ILE:HG13	13	0.23
(2,1315)	2:81:B:LYS:HG2	2:80:B:ALA:H	7	0.23
(2,1315)	2:81:B:LYS:HG3	2:80:B:ALA:H	7	0.23
(2,1315)	2:81:B:LYS:HG2	2:80:B:ALA:H	11	0.23
(2,1315)	2:81:B:LYS:HG3	2:80:B:ALA:H	11	0.23
(2,1102)	2:37:B:TYR:H	2:40:B:LEU:H	9	0.23
(2,1026)	2:54:B:CYS:H	2:51:B:ASN:H	4	0.23
(2,1026)	2:54:B:CYS:H	2:51:B:ASN:H	10	0.23
(2,919)	2:36:B:TYR:HE1	2:80:B:ALA:H	11	0.23
(2,919)	2:36:B:TYR:HE2	2:80:B:ALA:H	11	0.23
(2,885)	2:32:B:LEU:H	2:35:B:ARG:H	6	0.23
(2,737)	2:73:B:LEU:H	2:70:B:ILE:H	10	0.23
(2,737)	2:73:B:LEU:H	2:70:B:ILE:H	14	0.23
(2,734)	2:78:B:ILE:HA	2:80:B:ALA:H	7	0.23
(2,728)	2:36:B:TYR:HE1	2:32:B:LEU:H	2	0.23
(2,728)	2:36:B:TYR:HE2	2:32:B:LEU:H	2	0.23
(2,728)	2:36:B:TYR:HE1	2:32:B:LEU:H	14	0.23
(2,728)	2:36:B:TYR:HE2	2:32:B:LEU:H	14	0.23
(2,389)	1:352:A:ILE:HD11	1:353:A:ARG:H	5	0.23
(2,389)	1:352:A:ILE:HD12	1:353:A:ARG:H	5	0.23
(2,389)	1:352:A:ILE:HD13	1:353:A:ARG:H	5	0.23
(2,2001)	1:345:A:VAL:HG23	2:67:B:ALA:H	3	0.22
(2,1102)	2:37:B:TYR:H	2:40:B:LEU:H	4	0.22
(2,1061)	2:68:B:ALA:HB1	2:64:B:ASP:H	15	0.22
(2,1061)	2:68:B:ALA:HB2	2:64:B:ASP:H	15	0.22
(2,1061)	2:68:B:ALA:HB3	2:64:B:ASP:H	15	0.22
(2,1026)	2:54:B:CYS:H	2:51:B:ASN:H	3	0.22
(2,819)	2:44:B:CYS:H	2:56:B:SER:H	10	0.22
(2,737)	2:73:B:LEU:H	2:70:B:ILE:H	6	0.22
(2,737)	2:73:B:LEU:H	2:70:B:ILE:H	11	0.22
(2,734)	2:78:B:ILE:HA	2:80:B:ALA:H	3	0.22
(2,728)	2:36:B:TYR:HE1	2:32:B:LEU:H	7	0.22
(2,728)	2:36:B:TYR:HE2	2:32:B:LEU:H	7	0.22
(2,389)	1:352:A:ILE:HD11	1:353:A:ARG:H	3	0.22
(2,389)	1:352:A:ILE:HD12	1:353:A:ARG:H	3	0.22
(2,389)	1:352:A:ILE:HD13	1:353:A:ARG:H	3	0.22
(2,389)	1:352:A:ILE:HD11	1:353:A:ARG:H	12	0.22
(2,389)	1:352:A:ILE:HD12	1:353:A:ARG:H	12	0.22
(2,389)	1:352:A:ILE:HD13	1:353:A:ARG:H	12	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,8)	1:323:A:GLU:OE1	2:25:B:LYS:NZ	13	0.21
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB1	3	0.21
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB2	3	0.21
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB3	3	0.21
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB1	3	0.21
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB2	3	0.21
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB3	3	0.21
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD11	14	0.21
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD12	14	0.21
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD13	14	0.21
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD21	14	0.21
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD22	14	0.21
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD23	14	0.21
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD11	14	0.21
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD12	14	0.21
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD13	14	0.21
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD21	14	0.21
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD22	14	0.21
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD23	14	0.21
(2,1102)	2:37:B:TYR:H	2:40:B:LEU:H	10	0.21
(2,1061)	2:68:B:ALA:HB1	2:64:B:ASP:H	7	0.21
(2,1061)	2:68:B:ALA:HB2	2:64:B:ASP:H	7	0.21
(2,1061)	2:68:B:ALA:HB3	2:64:B:ASP:H	7	0.21
(2,1026)	2:54:B:CYS:H	2:51:B:ASN:H	8	0.21
(2,1026)	2:54:B:CYS:H	2:51:B:ASN:H	14	0.21
(2,819)	2:44:B:CYS:H	2:56:B:SER:H	7	0.21
(2,737)	2:73:B:LEU:H	2:70:B:ILE:H	4	0.21
(2,737)	2:73:B:LEU:H	2:70:B:ILE:H	12	0.21
(2,728)	2:36:B:TYR:HE1	2:32:B:LEU:H	8	0.21
(2,728)	2:36:B:TYR:HE2	2:32:B:LEU:H	8	0.21
(2,389)	1:352:A:ILE:HD11	1:353:A:ARG:H	4	0.21
(2,389)	1:352:A:ILE:HD12	1:353:A:ARG:H	4	0.21
(2,389)	1:352:A:ILE:HD13	1:353:A:ARG:H	4	0.21
(4,5)	2:44:B:CYS:CB	3:201:B:ZN:ZN	8	0.2
(2,2001)	1:345:A:VAL:HG22	2:67:B:ALA:H	10	0.2
(2,1953)	1:352:A:ILE:HD11	2:69:B:ALA:HA	2	0.2
(2,1953)	1:352:A:ILE:HD12	2:69:B:ALA:HA	2	0.2
(2,1953)	1:352:A:ILE:HD13	2:69:B:ALA:HA	2	0.2
(2,1653)	2:75:B:LEU:HA	2:78:B:ILE:HG12	15	0.2
(2,1653)	2:75:B:LEU:HA	2:78:B:ILE:HG13	15	0.2
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD11	10	0.2
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD12	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD13	10	0.2
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD21	10	0.2
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD22	10	0.2
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD23	10	0.2
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD11	10	0.2
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD12	10	0.2
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD13	10	0.2
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD21	10	0.2
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD22	10	0.2
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD23	10	0.2
(2,1315)	2:81:B:LYS:HG2	2:80:B:ALA:H	9	0.2
(2,1315)	2:81:B:LYS:HG3	2:80:B:ALA:H	9	0.2
(2,1256)	2:41:B:THR:HG21	2:68:B:ALA:H	15	0.2
(2,1256)	2:41:B:THR:HG22	2:68:B:ALA:H	15	0.2
(2,1256)	2:41:B:THR:HG23	2:68:B:ALA:H	15	0.2
(2,1195)	2:82:B:LEU:HG	2:83:B:CYS:H	3	0.2
(2,1195)	2:82:B:LEU:HG	2:83:B:CYS:H	5	0.2
(2,1102)	2:37:B:TYR:H	2:40:B:LEU:H	6	0.2
(2,802)	2:53:B:PHE:HE1	2:51:B:ASN:HD21	11	0.2
(2,802)	2:53:B:PHE:HE1	2:51:B:ASN:HD22	11	0.2
(2,802)	2:53:B:PHE:HE2	2:51:B:ASN:HD21	11	0.2
(2,802)	2:53:B:PHE:HE2	2:51:B:ASN:HD22	11	0.2
(2,737)	2:73:B:LEU:H	2:70:B:ILE:H	1	0.2
(2,737)	2:73:B:LEU:H	2:70:B:ILE:H	15	0.2
(2,734)	2:78:B:ILE:HA	2:80:B:ALA:H	1	0.2
(2,734)	2:78:B:ILE:HA	2:80:B:ALA:H	12	0.2
(2,143)	1:349:A:ASN:H	1:351:A:ALA:H	2	0.2
(2,2001)	1:345:A:VAL:HG23	2:67:B:ALA:H	2	0.19
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB1	5	0.19
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB2	5	0.19
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB3	5	0.19
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB1	5	0.19
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB2	5	0.19
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB3	5	0.19
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD11	4	0.19
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD12	4	0.19
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD13	4	0.19
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD21	4	0.19
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD22	4	0.19
(2,1518)	2:71:B:LYS:HE2	2:75:B:LEU:HD23	4	0.19
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD11	4	0.19
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD12	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD13	4	0.19
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD21	4	0.19
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD22	4	0.19
(2,1518)	2:71:B:LYS:HE3	2:75:B:LEU:HD23	4	0.19
(2,1315)	2:81:B:LYS:HG2	2:80:B:ALA:H	10	0.19
(2,1315)	2:81:B:LYS:HG3	2:80:B:ALA:H	10	0.19
(2,1291)	2:78:B:ILE:HG21	2:80:B:ALA:H	10	0.19
(2,1291)	2:78:B:ILE:HG22	2:80:B:ALA:H	10	0.19
(2,1291)	2:78:B:ILE:HG23	2:80:B:ALA:H	10	0.19
(2,1291)	2:78:B:ILE:HG21	2:80:B:ALA:H	12	0.19
(2,1291)	2:78:B:ILE:HG22	2:80:B:ALA:H	12	0.19
(2,1291)	2:78:B:ILE:HG23	2:80:B:ALA:H	12	0.19
(2,1195)	2:82:B:LEU:HG	2:83:B:CYS:H	13	0.19
(2,1102)	2:37:B:TYR:H	2:40:B:LEU:H	2	0.19
(2,1061)	2:68:B:ALA:HB1	2:64:B:ASP:H	2	0.19
(2,1061)	2:68:B:ALA:HB2	2:64:B:ASP:H	2	0.19
(2,1061)	2:68:B:ALA:HB3	2:64:B:ASP:H	2	0.19
(2,885)	2:32:B:LEU:H	2:35:B:ARG:H	9	0.19
(2,143)	1:349:A:ASN:H	1:351:A:ALA:H	3	0.19
(2,2001)	1:345:A:VAL:HG22	2:67:B:ALA:H	8	0.18
(2,1959)	1:352:A:ILE:HG12	2:70:B:ILE:HD11	11	0.18
(2,1959)	1:352:A:ILE:HG12	2:70:B:ILE:HD12	11	0.18
(2,1959)	1:352:A:ILE:HG12	2:70:B:ILE:HD13	11	0.18
(2,1959)	1:352:A:ILE:HG13	2:70:B:ILE:HD11	11	0.18
(2,1959)	1:352:A:ILE:HG13	2:70:B:ILE:HD12	11	0.18
(2,1959)	1:352:A:ILE:HG13	2:70:B:ILE:HD13	11	0.18
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB1	1	0.18
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB2	1	0.18
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB3	1	0.18
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB1	1	0.18
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB2	1	0.18
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB3	1	0.18
(2,1493)	2:42:B:GLU:HG2	2:41:B:THR:HB	10	0.18
(2,1493)	2:42:B:GLU:HG3	2:41:B:THR:HB	10	0.18
(2,1291)	2:78:B:ILE:HG21	2:80:B:ALA:H	1	0.18
(2,1291)	2:78:B:ILE:HG22	2:80:B:ALA:H	1	0.18
(2,1291)	2:78:B:ILE:HG23	2:80:B:ALA:H	1	0.18
(2,1291)	2:78:B:ILE:HG21	2:80:B:ALA:H	3	0.18
(2,1291)	2:78:B:ILE:HG22	2:80:B:ALA:H	3	0.18
(2,1291)	2:78:B:ILE:HG23	2:80:B:ALA:H	3	0.18
(2,1282)	2:75:B:LEU:HG	2:80:B:ALA:H	12	0.18
(2,1195)	2:82:B:LEU:HG	2:83:B:CYS:H	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1102)	2:37:B:TYR:H	2:40:B:LEU:H	8	0.18
(2,1102)	2:37:B:TYR:H	2:40:B:LEU:H	12	0.18
(2,1026)	2:54:B:CYS:H	2:51:B:ASN:H	12	0.18
(2,1024)	2:63:B:MET:HG2	2:68:B:ALA:H	9	0.18
(2,1024)	2:63:B:MET:HG3	2:68:B:ALA:H	9	0.18
(2,885)	2:32:B:LEU:H	2:35:B:ARG:H	1	0.18
(2,885)	2:32:B:LEU:H	2:35:B:ARG:H	7	0.18
(2,737)	2:73:B:LEU:H	2:70:B:ILE:H	7	0.18
(2,737)	2:73:B:LEU:H	2:70:B:ILE:H	13	0.18
(2,734)	2:78:B:ILE:HA	2:80:B:ALA:H	13	0.18
(4,8)	2:83:B:CYS:CB	3:201:B:ZN:ZN	14	0.17
(4,5)	2:44:B:CYS:CB	3:201:B:ZN:ZN	13	0.17
(2,2002)	1:345:A:VAL:HG22	2:68:B:ALA:H	14	0.17
(2,1973)	1:356:A:MET:HE1	2:70:B:ILE:HA	6	0.17
(2,1973)	1:356:A:MET:HE2	2:70:B:ILE:HA	6	0.17
(2,1973)	1:356:A:MET:HE3	2:70:B:ILE:HA	6	0.17
(2,1959)	1:352:A:ILE:HG12	2:70:B:ILE:HD11	8	0.17
(2,1959)	1:352:A:ILE:HG12	2:70:B:ILE:HD12	8	0.17
(2,1959)	1:352:A:ILE:HG12	2:70:B:ILE:HD13	8	0.17
(2,1959)	1:352:A:ILE:HG13	2:70:B:ILE:HD11	8	0.17
(2,1959)	1:352:A:ILE:HG13	2:70:B:ILE:HD12	8	0.17
(2,1959)	1:352:A:ILE:HG13	2:70:B:ILE:HD13	8	0.17
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB1	9	0.17
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB2	9	0.17
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB3	9	0.17
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB1	9	0.17
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB2	9	0.17
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB3	9	0.17
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB1	11	0.17
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB2	11	0.17
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB3	11	0.17
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB1	11	0.17
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB2	11	0.17
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB3	11	0.17
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB1	14	0.17
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB2	14	0.17
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB3	14	0.17
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB1	14	0.17
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB2	14	0.17
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB3	14	0.17
(2,1542)	2:63:B:MET:HG2	2:68:B:ALA:HB1	12	0.17
(2,1542)	2:63:B:MET:HG2	2:68:B:ALA:HB2	12	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1542)	2:63:B:MET:HG2	2:68:B:ALA:HB3	12	0.17
(2,1542)	2:63:B:MET:HG3	2:68:B:ALA:HB1	12	0.17
(2,1542)	2:63:B:MET:HG3	2:68:B:ALA:HB2	12	0.17
(2,1542)	2:63:B:MET:HG3	2:68:B:ALA:HB3	12	0.17
(2,1535)	2:67:B:ALA:HB1	2:64:B:ASP:HA	2	0.17
(2,1535)	2:67:B:ALA:HB2	2:64:B:ASP:HA	2	0.17
(2,1535)	2:67:B:ALA:HB3	2:64:B:ASP:HA	2	0.17
(2,1315)	2:81:B:LYS:HG2	2:80:B:ALA:H	1	0.17
(2,1315)	2:81:B:LYS:HG3	2:80:B:ALA:H	1	0.17
(2,1282)	2:75:B:LEU:HG	2:80:B:ALA:H	1	0.17
(2,1282)	2:75:B:LEU:HG	2:80:B:ALA:H	3	0.17
(2,1282)	2:75:B:LEU:HG	2:80:B:ALA:H	7	0.17
(2,1282)	2:75:B:LEU:HG	2:80:B:ALA:H	10	0.17
(2,1256)	2:41:B:THR:HG21	2:68:B:ALA:H	4	0.17
(2,1256)	2:41:B:THR:HG22	2:68:B:ALA:H	4	0.17
(2,1256)	2:41:B:THR:HG23	2:68:B:ALA:H	4	0.17
(2,1256)	2:41:B:THR:HG21	2:68:B:ALA:H	11	0.17
(2,1256)	2:41:B:THR:HG22	2:68:B:ALA:H	11	0.17
(2,1256)	2:41:B:THR:HG23	2:68:B:ALA:H	11	0.17
(2,1229)	2:77:B:LYS:HD2	2:78:B:ILE:H	14	0.17
(2,1229)	2:77:B:LYS:HD3	2:78:B:ILE:H	14	0.17
(2,1195)	2:82:B:LEU:HG	2:83:B:CYS:H	4	0.17
(2,1116)	2:65:B:ASN:HA	2:67:B:ALA:H	4	0.17
(2,1116)	2:65:B:ASN:HA	2:67:B:ALA:H	10	0.17
(2,919)	2:36:B:TYR:HE1	2:80:B:ALA:H	3	0.17
(2,919)	2:36:B:TYR:HE2	2:80:B:ALA:H	3	0.17
(2,919)	2:36:B:TYR:HE1	2:80:B:ALA:H	6	0.17
(2,919)	2:36:B:TYR:HE2	2:80:B:ALA:H	6	0.17
(2,885)	2:32:B:LEU:H	2:35:B:ARG:H	4	0.17
(2,885)	2:32:B:LEU:H	2:35:B:ARG:H	13	0.17
(2,861)	2:60:B:PHE:HD1	2:62:B:ARG:H	14	0.17
(2,861)	2:60:B:PHE:HD2	2:62:B:ARG:H	14	0.17
(2,737)	2:73:B:LEU:H	2:70:B:ILE:H	5	0.17
(2,734)	2:78:B:ILE:HA	2:80:B:ALA:H	8	0.17
(2,734)	2:78:B:ILE:HA	2:80:B:ALA:H	9	0.17
(2,734)	2:78:B:ILE:HA	2:80:B:ALA:H	11	0.17
(2,451)	1:358:A:SER:HA	1:361:A:SER:HB2	5	0.17
(2,451)	1:358:A:SER:HA	1:361:A:SER:HB3	5	0.17
(5,8)	1:323:A:GLU:OE1	2:25:B:LYS:NZ	2	0.16
(5,8)	1:323:A:GLU:OE1	2:25:B:LYS:NZ	9	0.16
(2,1953)	1:352:A:ILE:HD11	2:69:B:ALA:HA	6	0.16
(2,1953)	1:352:A:ILE:HD12	2:69:B:ALA:HA	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1953)	1:352:A:ILE:HD13	2:69:B:ALA:HA	6	0.16
(2,1900)	1:339:A:LEU:HD11	2:73:B:LEU:HG	12	0.16
(2,1900)	1:339:A:LEU:HD12	2:73:B:LEU:HG	12	0.16
(2,1900)	1:339:A:LEU:HD13	2:73:B:LEU:HG	12	0.16
(2,1900)	1:339:A:LEU:HD21	2:73:B:LEU:HG	12	0.16
(2,1900)	1:339:A:LEU:HD22	2:73:B:LEU:HG	12	0.16
(2,1900)	1:339:A:LEU:HD23	2:73:B:LEU:HG	12	0.16
(2,1706)	2:77:B:LYS:HG2	2:74:B:GLU:HA	6	0.16
(2,1706)	2:77:B:LYS:HG3	2:74:B:GLU:HA	6	0.16
(2,1542)	2:63:B:MET:HG2	2:68:B:ALA:HB1	9	0.16
(2,1542)	2:63:B:MET:HG2	2:68:B:ALA:HB2	9	0.16
(2,1542)	2:63:B:MET:HG2	2:68:B:ALA:HB3	9	0.16
(2,1542)	2:63:B:MET:HG3	2:68:B:ALA:HB1	9	0.16
(2,1542)	2:63:B:MET:HG3	2:68:B:ALA:HB2	9	0.16
(2,1542)	2:63:B:MET:HG3	2:68:B:ALA:HB3	9	0.16
(2,1330)	2:80:B:ALA:HB1	2:78:B:ILE:HB	11	0.16
(2,1330)	2:80:B:ALA:HB2	2:78:B:ILE:HB	11	0.16
(2,1330)	2:80:B:ALA:HB3	2:78:B:ILE:HB	11	0.16
(2,1315)	2:81:B:LYS:HG2	2:80:B:ALA:H	8	0.16
(2,1315)	2:81:B:LYS:HG3	2:80:B:ALA:H	8	0.16
(2,1315)	2:81:B:LYS:HG2	2:80:B:ALA:H	12	0.16
(2,1315)	2:81:B:LYS:HG3	2:80:B:ALA:H	12	0.16
(2,1288)	2:78:B:ILE:HB	2:80:B:ALA:H	2	0.16
(2,1282)	2:75:B:LEU:HG	2:80:B:ALA:H	4	0.16
(2,1195)	2:82:B:LEU:HG	2:83:B:CYS:H	12	0.16
(2,1184)	2:60:B:PHE:HE1	2:62:B:ARG:H	10	0.16
(2,1184)	2:60:B:PHE:HE2	2:62:B:ARG:H	10	0.16
(2,1170)	2:26:B:ARG:HD2	2:27:B:ALA:H	5	0.16
(2,1170)	2:26:B:ARG:HD3	2:27:B:ALA:H	5	0.16
(2,1116)	2:65:B:ASN:HA	2:67:B:ALA:H	6	0.16
(2,1070)	2:68:B:ALA:HB1	2:66:B:ASN:H	1	0.16
(2,1070)	2:68:B:ALA:HB2	2:66:B:ASN:H	1	0.16
(2,1070)	2:68:B:ALA:HB3	2:66:B:ASN:H	1	0.16
(2,939)	2:69:B:ALA:H	2:66:B:ASN:H	10	0.16
(2,885)	2:32:B:LEU:H	2:35:B:ARG:H	11	0.16
(2,885)	2:32:B:LEU:H	2:35:B:ARG:H	14	0.16
(2,885)	2:32:B:LEU:H	2:35:B:ARG:H	15	0.16
(2,841)	2:54:B:CYS:H	2:57:B:CYS:H	14	0.16
(2,819)	2:44:B:CYS:H	2:56:B:SER:H	13	0.16
(2,737)	2:73:B:LEU:H	2:70:B:ILE:H	9	0.16
(2,728)	2:36:B:TYR:HE1	2:32:B:LEU:H	6	0.16
(2,728)	2:36:B:TYR:HE2	2:32:B:LEU:H	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,451)	1:358:A:SER:HA	1:361:A:SER:HB2	12	0.16
(2,451)	1:358:A:SER:HA	1:361:A:SER:HB3	12	0.16
(5,7)	1:324:A:ASP:OD1	2:25:B:LYS:NZ	5	0.15
(4,6)	2:49:B:CYS:CB	3:201:B:ZN:ZN	11	0.15
(4,5)	2:44:B:CYS:CB	3:201:B:ZN:ZN	11	0.15
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB1	14	0.15
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB2	14	0.15
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB3	14	0.15
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB1	14	0.15
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB2	14	0.15
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB3	14	0.15
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB1	6	0.15
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB2	6	0.15
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB3	6	0.15
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB1	6	0.15
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB2	6	0.15
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB3	6	0.15
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD11	8	0.15
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD12	8	0.15
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD13	8	0.15
(2,1423)	2:60:B:PHE:HD1	2:62:B:ARG:HB2	14	0.15
(2,1423)	2:60:B:PHE:HD1	2:62:B:ARG:HB3	14	0.15
(2,1423)	2:60:B:PHE:HD2	2:62:B:ARG:HB2	14	0.15
(2,1423)	2:60:B:PHE:HD2	2:62:B:ARG:HB3	14	0.15
(2,1411)	2:54:B:CYS:HA	2:39:B:GLN:HG2	13	0.15
(2,1411)	2:54:B:CYS:HA	2:39:B:GLN:HG3	13	0.15
(2,1403)	2:74:B:GLU:HA	2:77:B:LYS:HE2	7	0.15
(2,1403)	2:74:B:GLU:HA	2:77:B:LYS:HE3	7	0.15
(2,1357)	2:34:B:GLU:HG2	2:31:B:HIS:HA	7	0.15
(2,1357)	2:34:B:GLU:HG3	2:31:B:HIS:HA	7	0.15
(2,1330)	2:80:B:ALA:HB1	2:78:B:ILE:HB	9	0.15
(2,1330)	2:80:B:ALA:HB2	2:78:B:ILE:HB	9	0.15
(2,1330)	2:80:B:ALA:HB3	2:78:B:ILE:HB	9	0.15
(2,1315)	2:81:B:LYS:HG2	2:80:B:ALA:H	2	0.15
(2,1315)	2:81:B:LYS:HG3	2:80:B:ALA:H	2	0.15
(2,1315)	2:81:B:LYS:HG2	2:80:B:ALA:H	3	0.15
(2,1315)	2:81:B:LYS:HG3	2:80:B:ALA:H	3	0.15
(2,1291)	2:78:B:ILE:HG21	2:80:B:ALA:H	5	0.15
(2,1291)	2:78:B:ILE:HG22	2:80:B:ALA:H	5	0.15
(2,1291)	2:78:B:ILE:HG23	2:80:B:ALA:H	5	0.15
(2,1288)	2:78:B:ILE:HB	2:80:B:ALA:H	9	0.15
(2,1288)	2:78:B:ILE:HB	2:80:B:ALA:H	11	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1282)	2:75:B:LEU:HG	2:80:B:ALA:H	5	0.15
(2,1282)	2:75:B:LEU:HG	2:80:B:ALA:H	11	0.15
(2,1282)	2:75:B:LEU:HG	2:80:B:ALA:H	13	0.15
(2,1256)	2:41:B:THR:HG21	2:68:B:ALA:H	3	0.15
(2,1256)	2:41:B:THR:HG22	2:68:B:ALA:H	3	0.15
(2,1256)	2:41:B:THR:HG23	2:68:B:ALA:H	3	0.15
(2,1116)	2:65:B:ASN:HA	2:67:B:ALA:H	1	0.15
(2,1116)	2:65:B:ASN:HA	2:67:B:ALA:H	12	0.15
(2,1070)	2:68:B:ALA:HB1	2:66:B:ASN:H	4	0.15
(2,1070)	2:68:B:ALA:HB2	2:66:B:ASN:H	4	0.15
(2,1070)	2:68:B:ALA:HB3	2:66:B:ASN:H	4	0.15
(2,1057)	2:68:B:ALA:H	2:65:B:ASN:H	7	0.15
(2,1057)	2:68:B:ALA:H	2:65:B:ASN:H	10	0.15
(2,1024)	2:63:B:MET:HG2	2:68:B:ALA:H	12	0.15
(2,1024)	2:63:B:MET:HG3	2:68:B:ALA:H	12	0.15
(2,939)	2:69:B:ALA:H	2:66:B:ASN:H	2	0.15
(2,939)	2:69:B:ALA:H	2:66:B:ASN:H	5	0.15
(2,919)	2:36:B:TYR:HE1	2:80:B:ALA:H	9	0.15
(2,919)	2:36:B:TYR:HE2	2:80:B:ALA:H	9	0.15
(2,885)	2:32:B:LEU:H	2:35:B:ARG:H	5	0.15
(2,885)	2:32:B:LEU:H	2:35:B:ARG:H	10	0.15
(2,885)	2:32:B:LEU:H	2:35:B:ARG:H	12	0.15
(2,841)	2:54:B:CYS:H	2:57:B:CYS:H	13	0.15
(2,819)	2:44:B:CYS:H	2:56:B:SER:H	1	0.15
(2,737)	2:73:B:LEU:H	2:70:B:ILE:H	3	0.15
(2,734)	2:78:B:ILE:HA	2:80:B:ALA:H	14	0.15
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE1	13	0.15
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE2	13	0.15
(2,143)	1:349:A:ASN:H	1:351:A:ALA:H	1	0.15
(2,143)	1:349:A:ASN:H	1:351:A:ALA:H	7	0.15
(2,143)	1:349:A:ASN:H	1:351:A:ALA:H	13	0.15
(2,143)	1:349:A:ASN:H	1:351:A:ALA:H	15	0.15
(5,8)	1:323:A:GLU:OE1	2:25:B:LYS:NZ	5	0.14
(4,8)	2:83:B:CYS:CB	3:201:B:ZN:ZN	11	0.14
(4,6)	2:49:B:CYS:CB	3:201:B:ZN:ZN	14	0.14
(4,5)	2:44:B:CYS:CB	3:201:B:ZN:ZN	15	0.14
(4,1)	2:44:B:CYS:SG	3:201:B:ZN:ZN	2	0.14
(4,1)	2:44:B:CYS:SG	3:201:B:ZN:ZN	15	0.14
(2,1973)	1:356:A:MET:HE1	2:70:B:ILE:HA	2	0.14
(2,1973)	1:356:A:MET:HE2	2:70:B:ILE:HA	2	0.14
(2,1973)	1:356:A:MET:HE3	2:70:B:ILE:HA	2	0.14
(2,1900)	1:339:A:LEU:HD11	2:73:B:LEU:HG	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1900)	1:339:A:LEU:HD12	2:73:B:LEU:HG	10	0.14
(2,1900)	1:339:A:LEU:HD13	2:73:B:LEU:HG	10	0.14
(2,1900)	1:339:A:LEU:HD21	2:73:B:LEU:HG	10	0.14
(2,1900)	1:339:A:LEU:HD22	2:73:B:LEU:HG	10	0.14
(2,1900)	1:339:A:LEU:HD23	2:73:B:LEU:HG	10	0.14
(2,1809)	1:328:A:VAL:HG11	2:26:B:ARG:HA	9	0.14
(2,1809)	1:328:A:VAL:HG12	2:26:B:ARG:HA	9	0.14
(2,1809)	1:328:A:VAL:HG13	2:26:B:ARG:HA	9	0.14
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB1	2	0.14
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB2	2	0.14
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB3	2	0.14
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB1	2	0.14
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB2	2	0.14
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB3	2	0.14
(2,1711)	2:77:B:LYS:HD2	2:78:B:ILE:HG21	13	0.14
(2,1711)	2:77:B:LYS:HD2	2:78:B:ILE:HG22	13	0.14
(2,1711)	2:77:B:LYS:HD2	2:78:B:ILE:HG23	13	0.14
(2,1711)	2:77:B:LYS:HD3	2:78:B:ILE:HG21	13	0.14
(2,1711)	2:77:B:LYS:HD3	2:78:B:ILE:HG22	13	0.14
(2,1711)	2:77:B:LYS:HD3	2:78:B:ILE:HG23	13	0.14
(2,1706)	2:77:B:LYS:HG2	2:74:B:GLU:HA	2	0.14
(2,1706)	2:77:B:LYS:HG3	2:74:B:GLU:HA	2	0.14
(2,1706)	2:77:B:LYS:HG2	2:74:B:GLU:HA	4	0.14
(2,1706)	2:77:B:LYS:HG3	2:74:B:GLU:HA	4	0.14
(2,1570)	2:68:B:ALA:HB1	2:63:B:MET:HE1	4	0.14
(2,1570)	2:68:B:ALA:HB1	2:63:B:MET:HE2	4	0.14
(2,1570)	2:68:B:ALA:HB1	2:63:B:MET:HE3	4	0.14
(2,1570)	2:68:B:ALA:HB2	2:63:B:MET:HE1	4	0.14
(2,1570)	2:68:B:ALA:HB2	2:63:B:MET:HE2	4	0.14
(2,1570)	2:68:B:ALA:HB2	2:63:B:MET:HE3	4	0.14
(2,1570)	2:68:B:ALA:HB3	2:63:B:MET:HE1	4	0.14
(2,1570)	2:68:B:ALA:HB3	2:63:B:MET:HE2	4	0.14
(2,1570)	2:68:B:ALA:HB3	2:63:B:MET:HE3	4	0.14
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD11	14	0.14
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD12	14	0.14
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD13	14	0.14
(2,1330)	2:80:B:ALA:HB1	2:78:B:ILE:HB	6	0.14
(2,1330)	2:80:B:ALA:HB2	2:78:B:ILE:HB	6	0.14
(2,1330)	2:80:B:ALA:HB3	2:78:B:ILE:HB	6	0.14
(2,1315)	2:81:B:LYS:HG2	2:80:B:ALA:H	15	0.14
(2,1315)	2:81:B:LYS:HG3	2:80:B:ALA:H	15	0.14
(2,1288)	2:78:B:ILE:HB	2:80:B:ALA:H	6	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1288)	2:78:B:ILE:HB	2:80:B:ALA:H	15	0.14
(2,1116)	2:65:B:ASN:HA	2:67:B:ALA:H	11	0.14
(2,1070)	2:68:B:ALA:HB1	2:66:B:ASN:H	2	0.14
(2,1070)	2:68:B:ALA:HB2	2:66:B:ASN:H	2	0.14
(2,1070)	2:68:B:ALA:HB3	2:66:B:ASN:H	2	0.14
(2,1070)	2:68:B:ALA:HB1	2:66:B:ASN:H	8	0.14
(2,1070)	2:68:B:ALA:HB2	2:66:B:ASN:H	8	0.14
(2,1070)	2:68:B:ALA:HB3	2:66:B:ASN:H	8	0.14
(2,1057)	2:68:B:ALA:H	2:65:B:ASN:H	15	0.14
(2,966)	2:25:B:LYS:HE2	2:26:B:ARG:H	1	0.14
(2,966)	2:25:B:LYS:HE3	2:26:B:ARG:H	1	0.14
(2,939)	2:69:B:ALA:H	2:66:B:ASN:H	4	0.14
(2,939)	2:69:B:ALA:H	2:66:B:ASN:H	8	0.14
(2,939)	2:69:B:ALA:H	2:66:B:ASN:H	13	0.14
(2,922)	2:62:B:ARG:H	2:63:B:MET:H	2	0.14
(2,919)	2:36:B:TYR:HE1	2:80:B:ALA:H	5	0.14
(2,919)	2:36:B:TYR:HE2	2:80:B:ALA:H	5	0.14
(2,885)	2:32:B:LEU:H	2:35:B:ARG:H	2	0.14
(2,841)	2:54:B:CYS:H	2:57:B:CYS:H	9	0.14
(2,819)	2:44:B:CYS:H	2:56:B:SER:H	2	0.14
(2,795)	2:77:B:LYS:HB2	2:76:B:TYR:H	13	0.14
(2,795)	2:77:B:LYS:HB3	2:76:B:TYR:H	13	0.14
(2,734)	2:78:B:ILE:HA	2:80:B:ALA:H	2	0.14
(2,734)	2:78:B:ILE:HA	2:80:B:ALA:H	15	0.14
(2,689)	1:328:A:VAL:HG11	1:326:A:TYR:HD1	2	0.14
(2,689)	1:328:A:VAL:HG11	1:326:A:TYR:HD2	2	0.14
(2,689)	1:328:A:VAL:HG12	1:326:A:TYR:HD1	2	0.14
(2,689)	1:328:A:VAL:HG12	1:326:A:TYR:HD2	2	0.14
(2,689)	1:328:A:VAL:HG13	1:326:A:TYR:HD1	2	0.14
(2,689)	1:328:A:VAL:HG13	1:326:A:TYR:HD2	2	0.14
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE1	5	0.14
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE2	5	0.14
(2,305)	1:339:A:LEU:HB2	1:338:A:VAL:H	1	0.14
(2,305)	1:339:A:LEU:HB3	1:338:A:VAL:H	1	0.14
(2,305)	1:339:A:LEU:HB2	1:338:A:VAL:H	2	0.14
(2,305)	1:339:A:LEU:HB3	1:338:A:VAL:H	2	0.14
(2,143)	1:349:A:ASN:H	1:351:A:ALA:H	10	0.14
(5,7)	1:324:A:ASP:OD1	2:25:B:LYS:NZ	2	0.13
(4,7)	2:54:B:CYS:CB	3:201:B:ZN:ZN	3	0.13
(4,5)	2:44:B:CYS:CB	3:201:B:ZN:ZN	6	0.13
(4,1)	2:44:B:CYS:SG	3:201:B:ZN:ZN	4	0.13
(4,1)	2:44:B:CYS:SG	3:201:B:ZN:ZN	13	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1973)	1:356:A:MET:HE1	2:70:B:ILE:HA	13	0.13
(2,1973)	1:356:A:MET:HE2	2:70:B:ILE:HA	13	0.13
(2,1973)	1:356:A:MET:HE3	2:70:B:ILE:HA	13	0.13
(2,1943)	1:351:A:ALA:HA	2:70:B:ILE:HG12	3	0.13
(2,1943)	1:351:A:ALA:HA	2:70:B:ILE:HG13	3	0.13
(2,1943)	1:351:A:ALA:HA	2:70:B:ILE:HG12	12	0.13
(2,1943)	1:351:A:ALA:HA	2:70:B:ILE:HG13	12	0.13
(2,1919)	1:342:A:LEU:HD11	2:37:B:TYR:HE1	11	0.13
(2,1919)	1:342:A:LEU:HD11	2:37:B:TYR:HE2	11	0.13
(2,1919)	1:342:A:LEU:HD12	2:37:B:TYR:HE1	11	0.13
(2,1919)	1:342:A:LEU:HD12	2:37:B:TYR:HE2	11	0.13
(2,1919)	1:342:A:LEU:HD13	2:37:B:TYR:HE1	11	0.13
(2,1919)	1:342:A:LEU:HD13	2:37:B:TYR:HE2	11	0.13
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB1	6	0.13
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB2	6	0.13
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB3	6	0.13
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB1	6	0.13
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB2	6	0.13
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB3	6	0.13
(2,1809)	1:328:A:VAL:HG11	2:26:B:ARG:HA	14	0.13
(2,1809)	1:328:A:VAL:HG12	2:26:B:ARG:HA	14	0.13
(2,1809)	1:328:A:VAL:HG13	2:26:B:ARG:HA	14	0.13
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB1	8	0.13
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB2	8	0.13
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB3	8	0.13
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB1	8	0.13
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB2	8	0.13
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB3	8	0.13
(2,1706)	2:77:B:LYS:HG2	2:74:B:GLU:HA	15	0.13
(2,1706)	2:77:B:LYS:HG3	2:74:B:GLU:HA	15	0.13
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD11	3	0.13
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD12	3	0.13
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD13	3	0.13
(2,1423)	2:60:B:PHE:HD1	2:62:B:ARG:HB2	5	0.13
(2,1423)	2:60:B:PHE:HD1	2:62:B:ARG:HB3	5	0.13
(2,1423)	2:60:B:PHE:HD2	2:62:B:ARG:HB2	5	0.13
(2,1423)	2:60:B:PHE:HD2	2:62:B:ARG:HB3	5	0.13
(2,1411)	2:54:B:CYS:HA	2:39:B:GLN:HG2	5	0.13
(2,1411)	2:54:B:CYS:HA	2:39:B:GLN:HG3	5	0.13
(2,1344)	2:73:B:LEU:HA	2:76:B:TYR:HD1	2	0.13
(2,1344)	2:73:B:LEU:HA	2:76:B:TYR:HD2	2	0.13
(2,1321)	2:71:B:LYS:HG2	2:75:B:LEU:HD11	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1321)	2:71:B:LYS:HG2	2:75:B:LEU:HD12	9	0.13
(2,1321)	2:71:B:LYS:HG2	2:75:B:LEU:HD13	9	0.13
(2,1321)	2:71:B:LYS:HG2	2:75:B:LEU:HD21	9	0.13
(2,1321)	2:71:B:LYS:HG2	2:75:B:LEU:HD22	9	0.13
(2,1321)	2:71:B:LYS:HG2	2:75:B:LEU:HD23	9	0.13
(2,1321)	2:71:B:LYS:HG3	2:75:B:LEU:HD11	9	0.13
(2,1321)	2:71:B:LYS:HG3	2:75:B:LEU:HD12	9	0.13
(2,1321)	2:71:B:LYS:HG3	2:75:B:LEU:HD13	9	0.13
(2,1321)	2:71:B:LYS:HG3	2:75:B:LEU:HD21	9	0.13
(2,1321)	2:71:B:LYS:HG3	2:75:B:LEU:HD22	9	0.13
(2,1321)	2:71:B:LYS:HG3	2:75:B:LEU:HD23	9	0.13
(2,1318)	2:75:B:LEU:HG	2:71:B:LYS:HB2	2	0.13
(2,1318)	2:75:B:LEU:HG	2:71:B:LYS:HB3	2	0.13
(2,1315)	2:81:B:LYS:HG2	2:80:B:ALA:H	5	0.13
(2,1315)	2:81:B:LYS:HG3	2:80:B:ALA:H	5	0.13
(2,1288)	2:78:B:ILE:HB	2:80:B:ALA:H	14	0.13
(2,1256)	2:41:B:THR:HG21	2:68:B:ALA:H	2	0.13
(2,1256)	2:41:B:THR:HG22	2:68:B:ALA:H	2	0.13
(2,1256)	2:41:B:THR:HG23	2:68:B:ALA:H	2	0.13
(2,1256)	2:41:B:THR:HG21	2:68:B:ALA:H	9	0.13
(2,1256)	2:41:B:THR:HG22	2:68:B:ALA:H	9	0.13
(2,1256)	2:41:B:THR:HG23	2:68:B:ALA:H	9	0.13
(2,1229)	2:77:B:LYS:HD2	2:78:B:ILE:H	1	0.13
(2,1229)	2:77:B:LYS:HD3	2:78:B:ILE:H	1	0.13
(2,1179)	2:55:B:ALA:H	2:56:B:SER:H	1	0.13
(2,1170)	2:26:B:ARG:HD2	2:27:B:ALA:H	7	0.13
(2,1170)	2:26:B:ARG:HD3	2:27:B:ALA:H	7	0.13
(2,1170)	2:26:B:ARG:HD2	2:27:B:ALA:H	15	0.13
(2,1170)	2:26:B:ARG:HD3	2:27:B:ALA:H	15	0.13
(2,1116)	2:65:B:ASN:HA	2:67:B:ALA:H	5	0.13
(2,1070)	2:68:B:ALA:HB1	2:66:B:ASN:H	10	0.13
(2,1070)	2:68:B:ALA:HB2	2:66:B:ASN:H	10	0.13
(2,1070)	2:68:B:ALA:HB3	2:66:B:ASN:H	10	0.13
(2,1061)	2:68:B:ALA:HB1	2:64:B:ASP:H	13	0.13
(2,1061)	2:68:B:ALA:HB2	2:64:B:ASP:H	13	0.13
(2,1061)	2:68:B:ALA:HB3	2:64:B:ASP:H	13	0.13
(2,1061)	2:68:B:ALA:HB1	2:64:B:ASP:H	14	0.13
(2,1061)	2:68:B:ALA:HB2	2:64:B:ASP:H	14	0.13
(2,1061)	2:68:B:ALA:HB3	2:64:B:ASP:H	14	0.13
(2,994)	2:39:B:GLN:HA	2:41:B:THR:H	12	0.13
(2,961)	2:25:B:LYS:HG2	2:25:B:LYS:H	7	0.13
(2,961)	2:25:B:LYS:HG3	2:25:B:LYS:H	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,939)	2:69:B:ALA:H	2:66:B:ASN:H	1	0.13
(2,939)	2:69:B:ALA:H	2:66:B:ASN:H	6	0.13
(2,939)	2:69:B:ALA:H	2:66:B:ASN:H	11	0.13
(2,939)	2:69:B:ALA:H	2:66:B:ASN:H	14	0.13
(2,695)	1:339:A:LEU:HD11	1:347:A:PRO:HB2	7	0.13
(2,695)	1:339:A:LEU:HD11	1:347:A:PRO:HB3	7	0.13
(2,695)	1:339:A:LEU:HD12	1:347:A:PRO:HB2	7	0.13
(2,695)	1:339:A:LEU:HD12	1:347:A:PRO:HB3	7	0.13
(2,695)	1:339:A:LEU:HD13	1:347:A:PRO:HB2	7	0.13
(2,695)	1:339:A:LEU:HD13	1:347:A:PRO:HB3	7	0.13
(2,695)	1:339:A:LEU:HD21	1:347:A:PRO:HB2	7	0.13
(2,695)	1:339:A:LEU:HD21	1:347:A:PRO:HB3	7	0.13
(2,695)	1:339:A:LEU:HD22	1:347:A:PRO:HB2	7	0.13
(2,695)	1:339:A:LEU:HD22	1:347:A:PRO:HB3	7	0.13
(2,695)	1:339:A:LEU:HD23	1:347:A:PRO:HB2	7	0.13
(2,695)	1:339:A:LEU:HD23	1:347:A:PRO:HB3	7	0.13
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE1	4	0.13
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE2	4	0.13
(2,389)	1:352:A:ILE:HD11	1:353:A:ARG:H	8	0.13
(2,389)	1:352:A:ILE:HD12	1:353:A:ARG:H	8	0.13
(2,389)	1:352:A:ILE:HD13	1:353:A:ARG:H	8	0.13
(2,323)	1:321:A:LYS:HA	1:322:A:GLU:H	10	0.13
(2,180)	1:361:A:SER:HA	1:363:A:ALA:H	11	0.13
(2,143)	1:349:A:ASN:H	1:351:A:ALA:H	6	0.13
(2,143)	1:349:A:ASN:H	1:351:A:ALA:H	9	0.13
(5,7)	1:324:A:ASP:OD1	2:25:B:LYS:NZ	6	0.12
(4,6)	2:49:B:CYS:CB	3:201:B:ZN:ZN	1	0.12
(4,5)	2:44:B:CYS:CB	3:201:B:ZN:ZN	2	0.12
(4,5)	2:44:B:CYS:CB	3:201:B:ZN:ZN	5	0.12
(4,1)	2:44:B:CYS:SG	3:201:B:ZN:ZN	7	0.12
(4,1)	2:44:B:CYS:SG	3:201:B:ZN:ZN	8	0.12
(4,1)	2:44:B:CYS:SG	3:201:B:ZN:ZN	9	0.12
(4,1)	2:44:B:CYS:SG	3:201:B:ZN:ZN	11	0.12
(2,2002)	1:345:A:VAL:HG22	2:68:B:ALA:H	6	0.12
(2,1996)	1:345:A:VAL:HA	2:65:B:ASN:HD21	5	0.12
(2,1996)	1:345:A:VAL:HA	2:65:B:ASN:HD22	5	0.12
(2,1996)	1:345:A:VAL:HA	2:65:B:ASN:HD21	9	0.12
(2,1996)	1:345:A:VAL:HA	2:65:B:ASN:HD22	9	0.12
(2,1994)	1:342:A:LEU:HD11	2:69:B:ALA:H	1	0.12
(2,1994)	1:342:A:LEU:HD12	2:69:B:ALA:H	1	0.12
(2,1994)	1:342:A:LEU:HD13	2:69:B:ALA:H	1	0.12
(2,1994)	1:342:A:LEU:HD21	2:69:B:ALA:H	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1994)	1:342:A:LEU:HD22	2:69:B:ALA:H	1	0.12
(2,1994)	1:342:A:LEU:HD23	2:69:B:ALA:H	1	0.12
(2,1994)	1:342:A:LEU:HD11	2:69:B:ALA:H	9	0.12
(2,1994)	1:342:A:LEU:HD12	2:69:B:ALA:H	9	0.12
(2,1994)	1:342:A:LEU:HD13	2:69:B:ALA:H	9	0.12
(2,1994)	1:342:A:LEU:HD21	2:69:B:ALA:H	9	0.12
(2,1994)	1:342:A:LEU:HD22	2:69:B:ALA:H	9	0.12
(2,1994)	1:342:A:LEU:HD23	2:69:B:ALA:H	9	0.12
(2,1974)	1:356:A:MET:HE1	2:70:B:ILE:HD11	1	0.12
(2,1974)	1:356:A:MET:HE1	2:70:B:ILE:HD12	1	0.12
(2,1974)	1:356:A:MET:HE1	2:70:B:ILE:HD13	1	0.12
(2,1974)	1:356:A:MET:HE2	2:70:B:ILE:HD11	1	0.12
(2,1974)	1:356:A:MET:HE2	2:70:B:ILE:HD12	1	0.12
(2,1974)	1:356:A:MET:HE2	2:70:B:ILE:HD13	1	0.12
(2,1974)	1:356:A:MET:HE3	2:70:B:ILE:HD11	1	0.12
(2,1974)	1:356:A:MET:HE3	2:70:B:ILE:HD12	1	0.12
(2,1974)	1:356:A:MET:HE3	2:70:B:ILE:HD13	1	0.12
(2,1943)	1:351:A:ALA:HA	2:70:B:ILE:HG12	5	0.12
(2,1943)	1:351:A:ALA:HA	2:70:B:ILE:HG13	5	0.12
(2,1900)	1:339:A:LEU:HD11	2:73:B:LEU:HG	1	0.12
(2,1900)	1:339:A:LEU:HD12	2:73:B:LEU:HG	1	0.12
(2,1900)	1:339:A:LEU:HD13	2:73:B:LEU:HG	1	0.12
(2,1900)	1:339:A:LEU:HD21	2:73:B:LEU:HG	1	0.12
(2,1900)	1:339:A:LEU:HD22	2:73:B:LEU:HG	1	0.12
(2,1900)	1:339:A:LEU:HD23	2:73:B:LEU:HG	1	0.12
(2,1900)	1:339:A:LEU:HD11	2:73:B:LEU:HG	7	0.12
(2,1900)	1:339:A:LEU:HD12	2:73:B:LEU:HG	7	0.12
(2,1900)	1:339:A:LEU:HD13	2:73:B:LEU:HG	7	0.12
(2,1900)	1:339:A:LEU:HD21	2:73:B:LEU:HG	7	0.12
(2,1900)	1:339:A:LEU:HD22	2:73:B:LEU:HG	7	0.12
(2,1900)	1:339:A:LEU:HD23	2:73:B:LEU:HG	7	0.12
(2,1900)	1:339:A:LEU:HD11	2:73:B:LEU:HG	9	0.12
(2,1900)	1:339:A:LEU:HD12	2:73:B:LEU:HG	9	0.12
(2,1900)	1:339:A:LEU:HD13	2:73:B:LEU:HG	9	0.12
(2,1900)	1:339:A:LEU:HD21	2:73:B:LEU:HG	9	0.12
(2,1900)	1:339:A:LEU:HD22	2:73:B:LEU:HG	9	0.12
(2,1900)	1:339:A:LEU:HD23	2:73:B:LEU:HG	9	0.12
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB1	3	0.12
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB2	3	0.12
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB3	3	0.12
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB1	3	0.12
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB2	3	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB3	3	0.12
(2,1809)	1:328:A:VAL:HG11	2:26:B:ARG:HA	3	0.12
(2,1809)	1:328:A:VAL:HG12	2:26:B:ARG:HA	3	0.12
(2,1809)	1:328:A:VAL:HG13	2:26:B:ARG:HA	3	0.12
(2,1809)	1:328:A:VAL:HG11	2:26:B:ARG:HA	10	0.12
(2,1809)	1:328:A:VAL:HG12	2:26:B:ARG:HA	10	0.12
(2,1809)	1:328:A:VAL:HG13	2:26:B:ARG:HA	10	0.12
(2,1635)	2:37:B:TYR:HE1	2:72:B:ALA:HB1	3	0.12
(2,1635)	2:37:B:TYR:HE1	2:72:B:ALA:HB2	3	0.12
(2,1635)	2:37:B:TYR:HE1	2:72:B:ALA:HB3	3	0.12
(2,1635)	2:37:B:TYR:HE2	2:72:B:ALA:HB1	3	0.12
(2,1635)	2:37:B:TYR:HE2	2:72:B:ALA:HB2	3	0.12
(2,1635)	2:37:B:TYR:HE2	2:72:B:ALA:HB3	3	0.12
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD11	12	0.12
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD12	12	0.12
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD13	12	0.12
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD11	13	0.12
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD12	13	0.12
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD13	13	0.12
(2,1428)	2:60:B:PHE:HD1	2:63:B:MET:HE1	10	0.12
(2,1428)	2:60:B:PHE:HD1	2:63:B:MET:HE2	10	0.12
(2,1428)	2:60:B:PHE:HD1	2:63:B:MET:HE3	10	0.12
(2,1428)	2:60:B:PHE:HD2	2:63:B:MET:HE1	10	0.12
(2,1428)	2:60:B:PHE:HD2	2:63:B:MET:HE2	10	0.12
(2,1428)	2:60:B:PHE:HD2	2:63:B:MET:HE3	10	0.12
(2,1423)	2:60:B:PHE:HD1	2:62:B:ARG:HB2	10	0.12
(2,1423)	2:60:B:PHE:HD1	2:62:B:ARG:HB3	10	0.12
(2,1423)	2:60:B:PHE:HD2	2:62:B:ARG:HB2	10	0.12
(2,1423)	2:60:B:PHE:HD2	2:62:B:ARG:HB3	10	0.12
(2,1357)	2:34:B:GLU:HG2	2:31:B:HIS:HA	13	0.12
(2,1357)	2:34:B:GLU:HG3	2:31:B:HIS:HA	13	0.12
(2,1315)	2:81:B:LYS:HG2	2:80:B:ALA:H	13	0.12
(2,1315)	2:81:B:LYS:HG3	2:80:B:ALA:H	13	0.12
(2,1291)	2:78:B:ILE:HG21	2:80:B:ALA:H	7	0.12
(2,1291)	2:78:B:ILE:HG22	2:80:B:ALA:H	7	0.12
(2,1291)	2:78:B:ILE:HG23	2:80:B:ALA:H	7	0.12
(2,1291)	2:78:B:ILE:HG21	2:80:B:ALA:H	8	0.12
(2,1291)	2:78:B:ILE:HG22	2:80:B:ALA:H	8	0.12
(2,1291)	2:78:B:ILE:HG23	2:80:B:ALA:H	8	0.12
(2,1256)	2:41:B:THR:HG21	2:68:B:ALA:H	12	0.12
(2,1256)	2:41:B:THR:HG22	2:68:B:ALA:H	12	0.12
(2,1256)	2:41:B:THR:HG23	2:68:B:ALA:H	12	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1229)	2:77:B:LYS:HD2	2:78:B:ILE:H	4	0.12
(2,1229)	2:77:B:LYS:HD3	2:78:B:ILE:H	4	0.12
(2,1179)	2:55:B:ALA:H	2:56:B:SER:H	7	0.12
(2,1170)	2:26:B:ARG:HD2	2:27:B:ALA:H	2	0.12
(2,1170)	2:26:B:ARG:HD3	2:27:B:ALA:H	2	0.12
(2,1170)	2:26:B:ARG:HD2	2:27:B:ALA:H	3	0.12
(2,1170)	2:26:B:ARG:HD3	2:27:B:ALA:H	3	0.12
(2,1170)	2:26:B:ARG:HD2	2:27:B:ALA:H	4	0.12
(2,1170)	2:26:B:ARG:HD3	2:27:B:ALA:H	4	0.12
(2,1116)	2:65:B:ASN:HA	2:67:B:ALA:H	3	0.12
(2,1116)	2:65:B:ASN:HA	2:67:B:ALA:H	9	0.12
(2,1103)	2:37:B:TYR:HA	2:39:B:GLN:H	11	0.12
(2,1070)	2:68:B:ALA:HB1	2:66:B:ASN:H	5	0.12
(2,1070)	2:68:B:ALA:HB2	2:66:B:ASN:H	5	0.12
(2,1070)	2:68:B:ALA:HB3	2:66:B:ASN:H	5	0.12
(2,1070)	2:68:B:ALA:HB1	2:66:B:ASN:H	7	0.12
(2,1070)	2:68:B:ALA:HB2	2:66:B:ASN:H	7	0.12
(2,1070)	2:68:B:ALA:HB3	2:66:B:ASN:H	7	0.12
(2,1070)	2:68:B:ALA:HB1	2:66:B:ASN:H	9	0.12
(2,1070)	2:68:B:ALA:HB2	2:66:B:ASN:H	9	0.12
(2,1070)	2:68:B:ALA:HB3	2:66:B:ASN:H	9	0.12
(2,1061)	2:68:B:ALA:HB1	2:64:B:ASP:H	6	0.12
(2,1061)	2:68:B:ALA:HB2	2:64:B:ASP:H	6	0.12
(2,1061)	2:68:B:ALA:HB3	2:64:B:ASP:H	6	0.12
(2,1057)	2:68:B:ALA:H	2:65:B:ASN:H	1	0.12
(2,1057)	2:68:B:ALA:H	2:65:B:ASN:H	3	0.12
(2,939)	2:69:B:ALA:H	2:66:B:ASN:H	15	0.12
(2,885)	2:32:B:LEU:H	2:35:B:ARG:H	8	0.12
(2,863)	2:80:B:ALA:H	2:81:B:LYS:H	1	0.12
(2,863)	2:80:B:ALA:H	2:81:B:LYS:H	2	0.12
(2,819)	2:44:B:CYS:H	2:56:B:SER:H	3	0.12
(2,734)	2:78:B:ILE:HA	2:80:B:ALA:H	6	0.12
(2,728)	2:36:B:TYR:HE1	2:32:B:LEU:H	15	0.12
(2,728)	2:36:B:TYR:HE2	2:32:B:LEU:H	15	0.12
(2,695)	1:339:A:LEU:HD11	1:347:A:PRO:HB2	3	0.12
(2,695)	1:339:A:LEU:HD11	1:347:A:PRO:HB3	3	0.12
(2,695)	1:339:A:LEU:HD12	1:347:A:PRO:HB2	3	0.12
(2,695)	1:339:A:LEU:HD12	1:347:A:PRO:HB3	3	0.12
(2,695)	1:339:A:LEU:HD13	1:347:A:PRO:HB2	3	0.12
(2,695)	1:339:A:LEU:HD13	1:347:A:PRO:HB3	3	0.12
(2,695)	1:339:A:LEU:HD21	1:347:A:PRO:HB2	3	0.12
(2,695)	1:339:A:LEU:HD21	1:347:A:PRO:HB3	3	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,695)	1:339:A:LEU:HD22	1:347:A:PRO:HB2	3	0.12
(2,695)	1:339:A:LEU:HD22	1:347:A:PRO:HB3	3	0.12
(2,695)	1:339:A:LEU:HD23	1:347:A:PRO:HB2	3	0.12
(2,695)	1:339:A:LEU:HD23	1:347:A:PRO:HB3	3	0.12
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE1	2	0.12
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE2	2	0.12
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE1	9	0.12
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE2	9	0.12
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE1	12	0.12
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE2	12	0.12
(2,451)	1:358:A:SER:HA	1:361:A:SER:HB2	9	0.12
(2,451)	1:358:A:SER:HA	1:361:A:SER:HB3	9	0.12
(2,451)	1:358:A:SER:HA	1:361:A:SER:HB2	11	0.12
(2,451)	1:358:A:SER:HA	1:361:A:SER:HB3	11	0.12
(2,305)	1:339:A:LEU:HB2	1:338:A:VAL:H	4	0.12
(2,305)	1:339:A:LEU:HB3	1:338:A:VAL:H	4	0.12
(2,143)	1:349:A:ASN:H	1:351:A:ALA:H	4	0.12
(4,7)	2:54:B:CYS:CB	3:201:B:ZN:ZN	9	0.11
(4,5)	2:44:B:CYS:CB	3:201:B:ZN:ZN	12	0.11
(4,1)	2:44:B:CYS:SG	3:201:B:ZN:ZN	3	0.11
(4,1)	2:44:B:CYS:SG	3:201:B:ZN:ZN	6	0.11
(2,2001)	1:345:A:VAL:HG22	2:67:B:ALA:H	14	0.11
(2,1996)	1:345:A:VAL:HA	2:65:B:ASN:HD21	6	0.11
(2,1996)	1:345:A:VAL:HA	2:65:B:ASN:HD22	6	0.11
(2,1987)	1:326:A:TYR:HD1	2:26:B:ARG:H	15	0.11
(2,1987)	1:326:A:TYR:HD2	2:26:B:ARG:H	15	0.11
(2,1961)	1:352:A:ILE:HD11	2:70:B:ILE:HB	5	0.11
(2,1961)	1:352:A:ILE:HD12	2:70:B:ILE:HB	5	0.11
(2,1961)	1:352:A:ILE:HD13	2:70:B:ILE:HB	5	0.11
(2,1900)	1:339:A:LEU:HD11	2:73:B:LEU:HG	2	0.11
(2,1900)	1:339:A:LEU:HD12	2:73:B:LEU:HG	2	0.11
(2,1900)	1:339:A:LEU:HD13	2:73:B:LEU:HG	2	0.11
(2,1900)	1:339:A:LEU:HD21	2:73:B:LEU:HG	2	0.11
(2,1900)	1:339:A:LEU:HD22	2:73:B:LEU:HG	2	0.11
(2,1900)	1:339:A:LEU:HD23	2:73:B:LEU:HG	2	0.11
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB1	4	0.11
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB2	4	0.11
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB3	4	0.11
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB1	4	0.11
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB2	4	0.11
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB3	4	0.11
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB1	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB2	11	0.11
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB3	11	0.11
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB1	11	0.11
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB2	11	0.11
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB3	11	0.11
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB1	12	0.11
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB2	12	0.11
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB3	12	0.11
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB1	12	0.11
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB2	12	0.11
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB3	12	0.11
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB1	13	0.11
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB2	13	0.11
(2,1849)	1:334:A:PHE:HD1	2:29:B:ALA:HB3	13	0.11
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB1	13	0.11
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB2	13	0.11
(2,1849)	1:334:A:PHE:HD2	2:29:B:ALA:HB3	13	0.11
(2,1809)	1:328:A:VAL:HG11	2:26:B:ARG:HA	8	0.11
(2,1809)	1:328:A:VAL:HG12	2:26:B:ARG:HA	8	0.11
(2,1809)	1:328:A:VAL:HG13	2:26:B:ARG:HA	8	0.11
(2,1809)	1:328:A:VAL:HG11	2:26:B:ARG:HA	11	0.11
(2,1809)	1:328:A:VAL:HG12	2:26:B:ARG:HA	11	0.11
(2,1809)	1:328:A:VAL:HG13	2:26:B:ARG:HA	11	0.11
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB1	15	0.11
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB2	15	0.11
(2,1807)	1:326:A:TYR:HE1	2:29:B:ALA:HB3	15	0.11
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB1	15	0.11
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB2	15	0.11
(2,1807)	1:326:A:TYR:HE2	2:29:B:ALA:HB3	15	0.11
(2,1791)	1:324:A:ASP:HA	2:25:B:LYS:HD2	15	0.11
(2,1791)	1:324:A:ASP:HA	2:25:B:LYS:HD3	15	0.11
(2,1635)	2:37:B:TYR:HE1	2:72:B:ALA:HB1	10	0.11
(2,1635)	2:37:B:TYR:HE1	2:72:B:ALA:HB2	10	0.11
(2,1635)	2:37:B:TYR:HE1	2:72:B:ALA:HB3	10	0.11
(2,1635)	2:37:B:TYR:HE2	2:72:B:ALA:HB1	10	0.11
(2,1635)	2:37:B:TYR:HE2	2:72:B:ALA:HB2	10	0.11
(2,1635)	2:37:B:TYR:HE2	2:72:B:ALA:HB3	10	0.11
(2,1544)	2:63:B:MET:HE1	2:40:B:LEU:HD11	10	0.11
(2,1544)	2:63:B:MET:HE1	2:40:B:LEU:HD12	10	0.11
(2,1544)	2:63:B:MET:HE1	2:40:B:LEU:HD13	10	0.11
(2,1544)	2:63:B:MET:HE1	2:40:B:LEU:HD21	10	0.11
(2,1544)	2:63:B:MET:HE1	2:40:B:LEU:HD22	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1544)	2:63:B:MET:HE1	2:40:B:LEU:HD23	10	0.11
(2,1544)	2:63:B:MET:HE2	2:40:B:LEU:HD11	10	0.11
(2,1544)	2:63:B:MET:HE2	2:40:B:LEU:HD12	10	0.11
(2,1544)	2:63:B:MET:HE2	2:40:B:LEU:HD13	10	0.11
(2,1544)	2:63:B:MET:HE2	2:40:B:LEU:HD21	10	0.11
(2,1544)	2:63:B:MET:HE2	2:40:B:LEU:HD22	10	0.11
(2,1544)	2:63:B:MET:HE2	2:40:B:LEU:HD23	10	0.11
(2,1544)	2:63:B:MET:HE3	2:40:B:LEU:HD11	10	0.11
(2,1544)	2:63:B:MET:HE3	2:40:B:LEU:HD12	10	0.11
(2,1544)	2:63:B:MET:HE3	2:40:B:LEU:HD13	10	0.11
(2,1544)	2:63:B:MET:HE3	2:40:B:LEU:HD21	10	0.11
(2,1544)	2:63:B:MET:HE3	2:40:B:LEU:HD22	10	0.11
(2,1544)	2:63:B:MET:HE3	2:40:B:LEU:HD23	10	0.11
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD11	2	0.11
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD12	2	0.11
(2,1528)	2:67:B:ALA:HA	2:70:B:ILE:HD13	2	0.11
(2,1436)	2:60:B:PHE:HE1	2:40:B:LEU:HA	5	0.11
(2,1436)	2:60:B:PHE:HE2	2:40:B:LEU:HA	5	0.11
(2,1436)	2:60:B:PHE:HE1	2:40:B:LEU:HA	11	0.11
(2,1436)	2:60:B:PHE:HE2	2:40:B:LEU:HA	11	0.11
(2,1403)	2:74:B:GLU:HA	2:77:B:LYS:HE2	9	0.11
(2,1403)	2:74:B:GLU:HA	2:77:B:LYS:HE3	9	0.11
(2,1357)	2:34:B:GLU:HG2	2:31:B:HIS:HA	8	0.11
(2,1357)	2:34:B:GLU:HG3	2:31:B:HIS:HA	8	0.11
(2,1315)	2:81:B:LYS:HG2	2:80:B:ALA:H	14	0.11
(2,1315)	2:81:B:LYS:HG3	2:80:B:ALA:H	14	0.11
(2,1291)	2:78:B:ILE:HG21	2:80:B:ALA:H	4	0.11
(2,1291)	2:78:B:ILE:HG22	2:80:B:ALA:H	4	0.11
(2,1291)	2:78:B:ILE:HG23	2:80:B:ALA:H	4	0.11
(2,1282)	2:75:B:LEU:HG	2:80:B:ALA:H	8	0.11
(2,1282)	2:75:B:LEU:HG	2:80:B:ALA:H	14	0.11
(2,1256)	2:41:B:THR:HG21	2:68:B:ALA:H	1	0.11
(2,1256)	2:41:B:THR:HG22	2:68:B:ALA:H	1	0.11
(2,1256)	2:41:B:THR:HG23	2:68:B:ALA:H	1	0.11
(2,1256)	2:41:B:THR:HG21	2:68:B:ALA:H	7	0.11
(2,1256)	2:41:B:THR:HG22	2:68:B:ALA:H	7	0.11
(2,1256)	2:41:B:THR:HG23	2:68:B:ALA:H	7	0.11
(2,1256)	2:41:B:THR:HG21	2:68:B:ALA:H	14	0.11
(2,1256)	2:41:B:THR:HG22	2:68:B:ALA:H	14	0.11
(2,1256)	2:41:B:THR:HG23	2:68:B:ALA:H	14	0.11
(2,1179)	2:55:B:ALA:H	2:56:B:SER:H	4	0.11
(2,1179)	2:55:B:ALA:H	2:56:B:SER:H	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1170)	2:26:B:ARG:HD2	2:27:B:ALA:H	11	0.11
(2,1170)	2:26:B:ARG:HD3	2:27:B:ALA:H	11	0.11
(2,1170)	2:26:B:ARG:HD2	2:27:B:ALA:H	13	0.11
(2,1170)	2:26:B:ARG:HD3	2:27:B:ALA:H	13	0.11
(2,1116)	2:65:B:ASN:HA	2:67:B:ALA:H	2	0.11
(2,1116)	2:65:B:ASN:HA	2:67:B:ALA:H	13	0.11
(2,1116)	2:65:B:ASN:HA	2:67:B:ALA:H	14	0.11
(2,1102)	2:37:B:TYR:H	2:40:B:LEU:H	3	0.11
(2,1077)	2:81:B:LYS:H	2:82:B:LEU:H	2	0.11
(2,1077)	2:81:B:LYS:H	2:82:B:LEU:H	4	0.11
(2,1077)	2:81:B:LYS:H	2:82:B:LEU:H	7	0.11
(2,1077)	2:81:B:LYS:H	2:82:B:LEU:H	8	0.11
(2,1070)	2:68:B:ALA:HB1	2:66:B:ASN:H	12	0.11
(2,1070)	2:68:B:ALA:HB2	2:66:B:ASN:H	12	0.11
(2,1070)	2:68:B:ALA:HB3	2:66:B:ASN:H	12	0.11
(2,1061)	2:68:B:ALA:HB1	2:64:B:ASP:H	11	0.11
(2,1061)	2:68:B:ALA:HB2	2:64:B:ASP:H	11	0.11
(2,1061)	2:68:B:ALA:HB3	2:64:B:ASP:H	11	0.11
(2,1057)	2:68:B:ALA:H	2:65:B:ASN:H	2	0.11
(2,967)	2:46:B:ASN:H	2:47:B:GLU:H	5	0.11
(2,939)	2:69:B:ALA:H	2:66:B:ASN:H	9	0.11
(2,939)	2:69:B:ALA:H	2:66:B:ASN:H	12	0.11
(2,922)	2:62:B:ARG:H	2:63:B:MET:H	15	0.11
(2,885)	2:32:B:LEU:H	2:35:B:ARG:H	3	0.11
(2,863)	2:80:B:ALA:H	2:81:B:LYS:H	3	0.11
(2,863)	2:80:B:ALA:H	2:81:B:LYS:H	6	0.11
(2,863)	2:80:B:ALA:H	2:81:B:LYS:H	7	0.11
(2,863)	2:80:B:ALA:H	2:81:B:LYS:H	8	0.11
(2,863)	2:80:B:ALA:H	2:81:B:LYS:H	9	0.11
(2,863)	2:80:B:ALA:H	2:81:B:LYS:H	14	0.11
(2,802)	2:53:B:PHE:HE1	2:51:B:ASN:HD21	4	0.11
(2,802)	2:53:B:PHE:HE1	2:51:B:ASN:HD22	4	0.11
(2,802)	2:53:B:PHE:HE2	2:51:B:ASN:HD21	4	0.11
(2,802)	2:53:B:PHE:HE2	2:51:B:ASN:HD22	4	0.11
(2,802)	2:53:B:PHE:HE1	2:51:B:ASN:HD21	14	0.11
(2,802)	2:53:B:PHE:HE1	2:51:B:ASN:HD22	14	0.11
(2,802)	2:53:B:PHE:HE2	2:51:B:ASN:HD21	14	0.11
(2,802)	2:53:B:PHE:HE2	2:51:B:ASN:HD22	14	0.11
(2,750)	2:58:B:PRO:HD2	2:51:B:ASN:H	7	0.11
(2,750)	2:58:B:PRO:HD3	2:51:B:ASN:H	7	0.11
(2,750)	2:58:B:PRO:HD2	2:51:B:ASN:H	10	0.11
(2,750)	2:58:B:PRO:HD3	2:51:B:ASN:H	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,695)	1:339:A:LEU:HD11	1:347:A:PRO:HB2	12	0.11
(2,695)	1:339:A:LEU:HD11	1:347:A:PRO:HB3	12	0.11
(2,695)	1:339:A:LEU:HD12	1:347:A:PRO:HB2	12	0.11
(2,695)	1:339:A:LEU:HD12	1:347:A:PRO:HB3	12	0.11
(2,695)	1:339:A:LEU:HD13	1:347:A:PRO:HB2	12	0.11
(2,695)	1:339:A:LEU:HD13	1:347:A:PRO:HB3	12	0.11
(2,695)	1:339:A:LEU:HD21	1:347:A:PRO:HB2	12	0.11
(2,695)	1:339:A:LEU:HD21	1:347:A:PRO:HB3	12	0.11
(2,695)	1:339:A:LEU:HD22	1:347:A:PRO:HB2	12	0.11
(2,695)	1:339:A:LEU:HD22	1:347:A:PRO:HB3	12	0.11
(2,695)	1:339:A:LEU:HD23	1:347:A:PRO:HB2	12	0.11
(2,695)	1:339:A:LEU:HD23	1:347:A:PRO:HB3	12	0.11
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE1	11	0.11
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE2	11	0.11
(2,389)	1:352:A:ILE:HD11	1:353:A:ARG:H	11	0.11
(2,389)	1:352:A:ILE:HD12	1:353:A:ARG:H	11	0.11
(2,389)	1:352:A:ILE:HD13	1:353:A:ARG:H	11	0.11
(2,305)	1:339:A:LEU:HB2	1:338:A:VAL:H	10	0.11
(2,305)	1:339:A:LEU:HB3	1:338:A:VAL:H	10	0.11
(2,305)	1:339:A:LEU:HB2	1:338:A:VAL:H	12	0.11
(2,305)	1:339:A:LEU:HB3	1:338:A:VAL:H	12	0.11
(2,143)	1:349:A:ASN:H	1:351:A:ALA:H	5	0.11
(2,143)	1:349:A:ASN:H	1:351:A:ALA:H	8	0.11
(5,7)	1:324:A:ASP:OD1	2:25:B:LYS:NZ	11	0.1
(4,5)	2:44:B:CYS:CB	3:201:B:ZN:ZN	4	0.1
(4,1)	2:44:B:CYS:SG	3:201:B:ZN:ZN	5	0.1
(2,1996)	1:345:A:VAL:HA	2:65:B:ASN:HD21	10	0.1
(2,1996)	1:345:A:VAL:HA	2:65:B:ASN:HD22	10	0.1
(2,1900)	1:339:A:LEU:HD11	2:73:B:LEU:HG	3	0.1
(2,1900)	1:339:A:LEU:HD12	2:73:B:LEU:HG	3	0.1
(2,1900)	1:339:A:LEU:HD13	2:73:B:LEU:HG	3	0.1
(2,1900)	1:339:A:LEU:HD21	2:73:B:LEU:HG	3	0.1
(2,1900)	1:339:A:LEU:HD22	2:73:B:LEU:HG	3	0.1
(2,1900)	1:339:A:LEU:HD23	2:73:B:LEU:HG	3	0.1
(2,1900)	1:339:A:LEU:HD11	2:73:B:LEU:HG	5	0.1
(2,1900)	1:339:A:LEU:HD12	2:73:B:LEU:HG	5	0.1
(2,1900)	1:339:A:LEU:HD13	2:73:B:LEU:HG	5	0.1
(2,1900)	1:339:A:LEU:HD21	2:73:B:LEU:HG	5	0.1
(2,1900)	1:339:A:LEU:HD22	2:73:B:LEU:HG	5	0.1
(2,1900)	1:339:A:LEU:HD23	2:73:B:LEU:HG	5	0.1
(2,1830)	1:329:A:MET:HE1	2:73:B:LEU:HD21	14	0.1
(2,1830)	1:329:A:MET:HE1	2:73:B:LEU:HD22	14	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1830)	1:329:A:MET:HE1	2:73:B:LEU:HD23	14	0.1
(2,1830)	1:329:A:MET:HE2	2:73:B:LEU:HD21	14	0.1
(2,1830)	1:329:A:MET:HE2	2:73:B:LEU:HD22	14	0.1
(2,1830)	1:329:A:MET:HE2	2:73:B:LEU:HD23	14	0.1
(2,1830)	1:329:A:MET:HE3	2:73:B:LEU:HD21	14	0.1
(2,1830)	1:329:A:MET:HE3	2:73:B:LEU:HD22	14	0.1
(2,1830)	1:329:A:MET:HE3	2:73:B:LEU:HD23	14	0.1
(2,1635)	2:37:B:TYR:HE1	2:72:B:ALA:HB1	7	0.1
(2,1635)	2:37:B:TYR:HE1	2:72:B:ALA:HB2	7	0.1
(2,1635)	2:37:B:TYR:HE1	2:72:B:ALA:HB3	7	0.1
(2,1635)	2:37:B:TYR:HE2	2:72:B:ALA:HB1	7	0.1
(2,1635)	2:37:B:TYR:HE2	2:72:B:ALA:HB2	7	0.1
(2,1635)	2:37:B:TYR:HE2	2:72:B:ALA:HB3	7	0.1
(2,1575)	2:68:B:ALA:HB1	2:41:B:THR:HB	9	0.1
(2,1575)	2:68:B:ALA:HB2	2:41:B:THR:HB	9	0.1
(2,1575)	2:68:B:ALA:HB3	2:41:B:THR:HB	9	0.1
(2,1436)	2:60:B:PHE:HE1	2:40:B:LEU:HA	6	0.1
(2,1436)	2:60:B:PHE:HE2	2:40:B:LEU:HA	6	0.1
(2,1357)	2:34:B:GLU:HG2	2:31:B:HIS:HA	12	0.1
(2,1357)	2:34:B:GLU:HG3	2:31:B:HIS:HA	12	0.1
(2,1256)	2:41:B:THR:HG21	2:68:B:ALA:H	5	0.1
(2,1256)	2:41:B:THR:HG22	2:68:B:ALA:H	5	0.1
(2,1256)	2:41:B:THR:HG23	2:68:B:ALA:H	5	0.1
(2,1231)	2:77:B:LYS:HE2	2:77:B:LYS:H	9	0.1
(2,1231)	2:77:B:LYS:HE3	2:77:B:LYS:H	9	0.1
(2,1195)	2:82:B:LEU:HG	2:83:B:CYS:H	11	0.1
(2,1170)	2:26:B:ARG:HD2	2:27:B:ALA:H	1	0.1
(2,1170)	2:26:B:ARG:HD3	2:27:B:ALA:H	1	0.1
(2,1116)	2:65:B:ASN:HA	2:67:B:ALA:H	7	0.1
(2,1116)	2:65:B:ASN:HA	2:67:B:ALA:H	8	0.1
(2,1077)	2:81:B:LYS:H	2:82:B:LEU:H	1	0.1
(2,1077)	2:81:B:LYS:H	2:82:B:LEU:H	5	0.1
(2,1077)	2:81:B:LYS:H	2:82:B:LEU:H	9	0.1
(2,1077)	2:81:B:LYS:H	2:82:B:LEU:H	10	0.1
(2,1077)	2:81:B:LYS:H	2:82:B:LEU:H	14	0.1
(2,1077)	2:81:B:LYS:H	2:82:B:LEU:H	15	0.1
(2,967)	2:46:B:ASN:H	2:47:B:GLU:H	4	0.1
(2,967)	2:46:B:ASN:H	2:47:B:GLU:H	9	0.1
(2,942)	2:69:B:ALA:HA	2:71:B:LYS:H	10	0.1
(2,922)	2:62:B:ARG:H	2:63:B:MET:H	1	0.1
(2,922)	2:62:B:ARG:H	2:63:B:MET:H	7	0.1
(2,863)	2:80:B:ALA:H	2:81:B:LYS:H	10	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,863)	2:80:B:ALA:H	2:81:B:LYS:H	11	0.1
(2,863)	2:80:B:ALA:H	2:81:B:LYS:H	12	0.1
(2,863)	2:80:B:ALA:H	2:81:B:LYS:H	15	0.1
(2,795)	2:77:B:LYS:HB2	2:76:B:TYR:H	1	0.1
(2,795)	2:77:B:LYS:HB3	2:76:B:TYR:H	1	0.1
(2,750)	2:58:B:PRO:HD2	2:51:B:ASN:H	1	0.1
(2,750)	2:58:B:PRO:HD3	2:51:B:ASN:H	1	0.1
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE1	1	0.1
(2,687)	1:328:A:VAL:HB	1:326:A:TYR:HE2	1	0.1
(2,293)	1:335:A:LEU:HB2	1:334:A:PHE:H	14	0.1
(2,293)	1:335:A:LEU:HB3	1:334:A:PHE:H	14	0.1
(2,144)	1:350:A:GLU:H	1:349:A:ASN:H	11	0.1
(2,143)	1:349:A:ASN:H	1:351:A:ALA:H	14	0.1

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

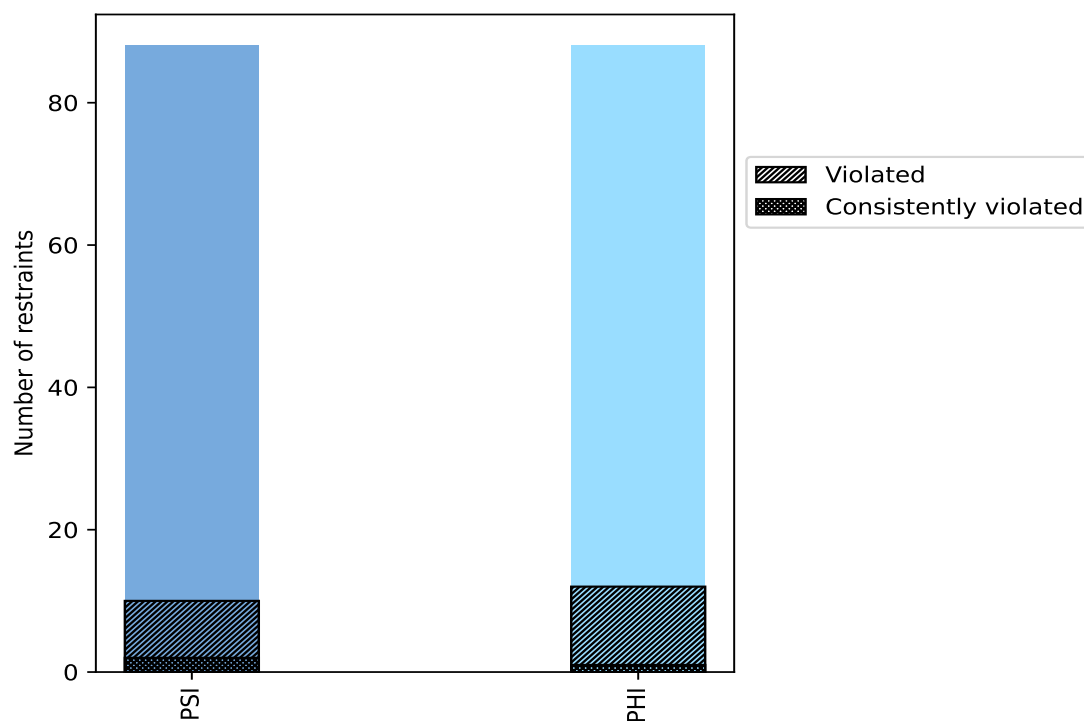
10.1 Summary of dihedral-angle violations [i](#)

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
PSI	88	50.0	10	11.4	5.7	2	2.3	1.1
PHI	88	50.0	12	13.6	6.8	1	1.1	0.6
Total	176	100.0	22	12.5	12.5	3	1.7	1.7

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](#)



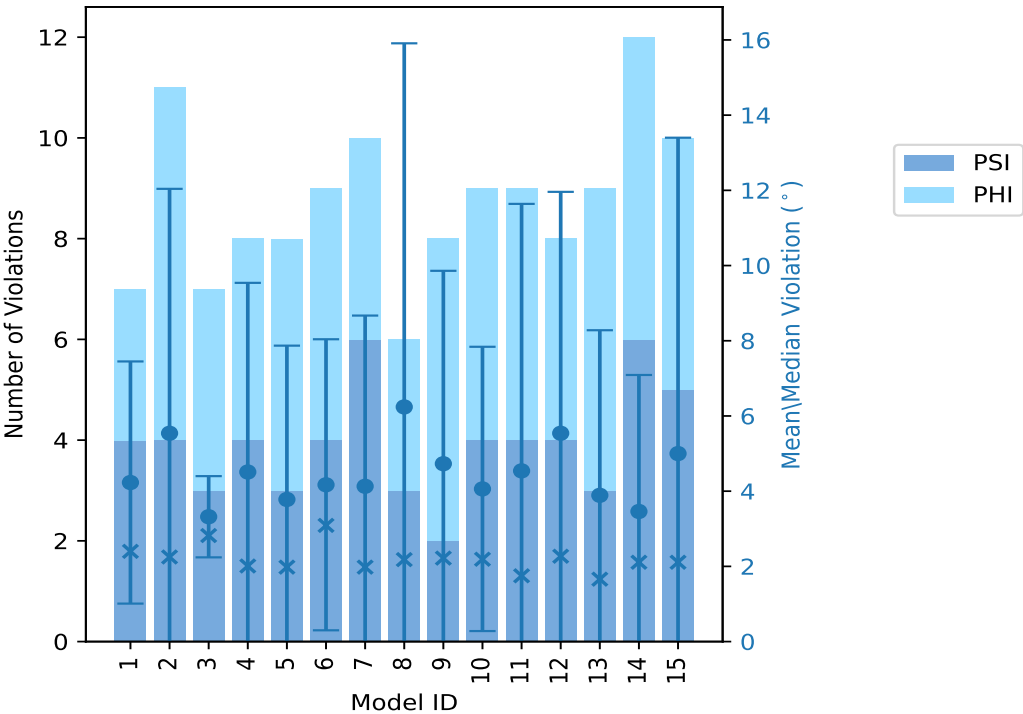
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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 (°)
	PSI	PHI	Total				
1	4	3	7	4.23	10.97	3.22	2.4
2	4	7	11	5.54	22.74	6.5	2.25
3	3	4	7	3.32	5.33	1.08	2.82
4	4	4	8	4.51	14.53	5.03	2.01
5	3	5	8	3.78	14.07	4.09	1.98
6	4	5	9	4.17	14.43	3.87	3.09
7	6	4	10	4.13	15.39	4.54	1.98
8	3	3	6	6.24	27.83	9.67	2.18
9	2	6	8	4.73	15.84	5.13	2.22
10	4	5	9	4.06	13.18	3.78	2.19
11	4	5	9	4.54	24.33	7.1	1.75
12	4	4	8	5.54	20.04	6.42	2.27
13	3	6	9	3.89	14.28	4.39	1.66
14	6	6	12	3.46	13.4	3.63	2.11
15	5	5	10	5.0	30.02	8.4	2.11

10.2.1 Bar graph : Dihedral violation statistics for each model ⓘ



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

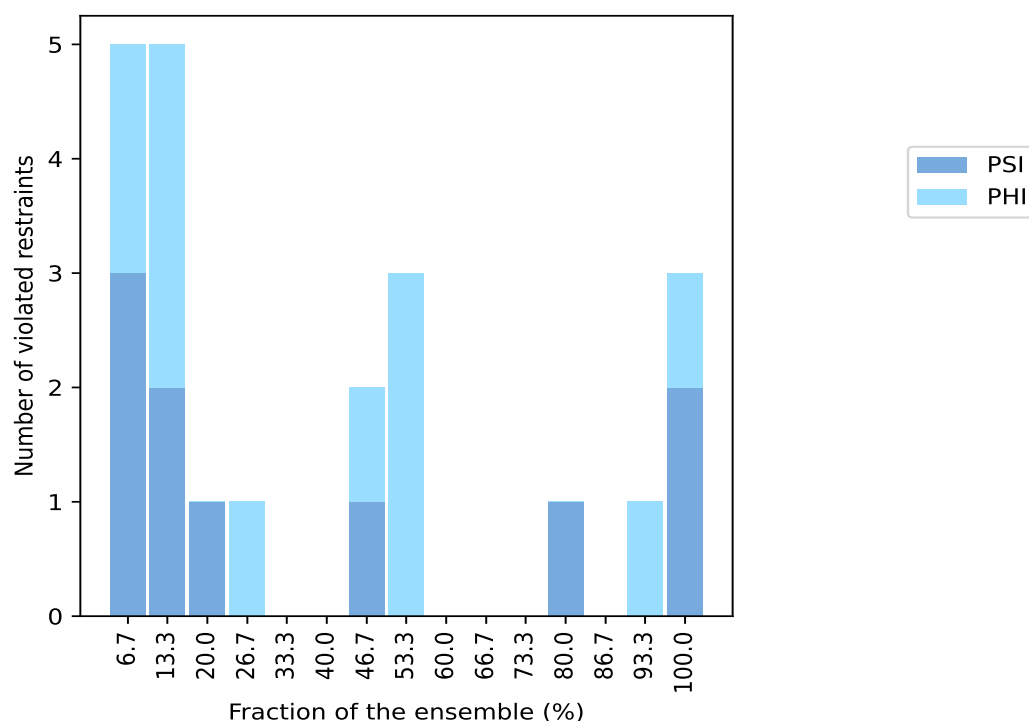
10.3 Dihedral-angle violation statistics for the ensemble [i](#)

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

Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count ¹	%
3	2	5	1	6.7
2	3	5	2	13.3
1	0	1	3	20.0
0	1	1	4	26.7
0	0	0	5	33.3
0	0	0	6	40.0
1	1	2	7	46.7
0	3	3	8	53.3
0	0	0	9	60.0
0	0	0	10	66.7
0	0	0	11	73.3
1	0	1	12	80.0
0	0	0	13	86.7
0	1	1	14	93.3
2	1	3	15	100.0

¹ Number of models with violations

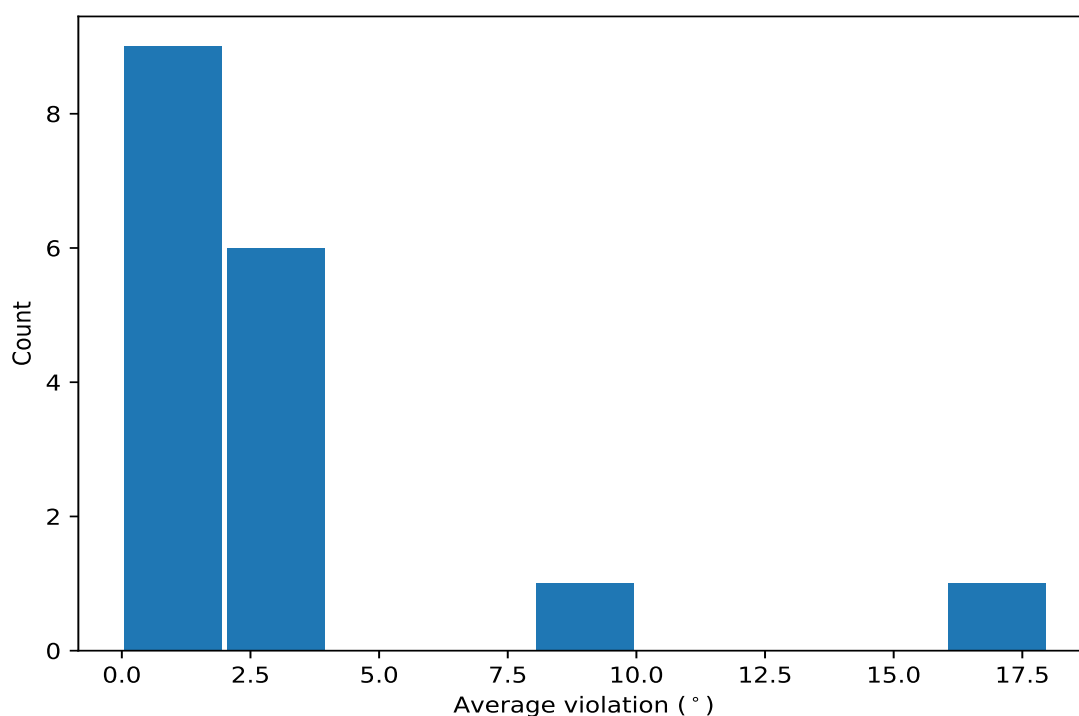
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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

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

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



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

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

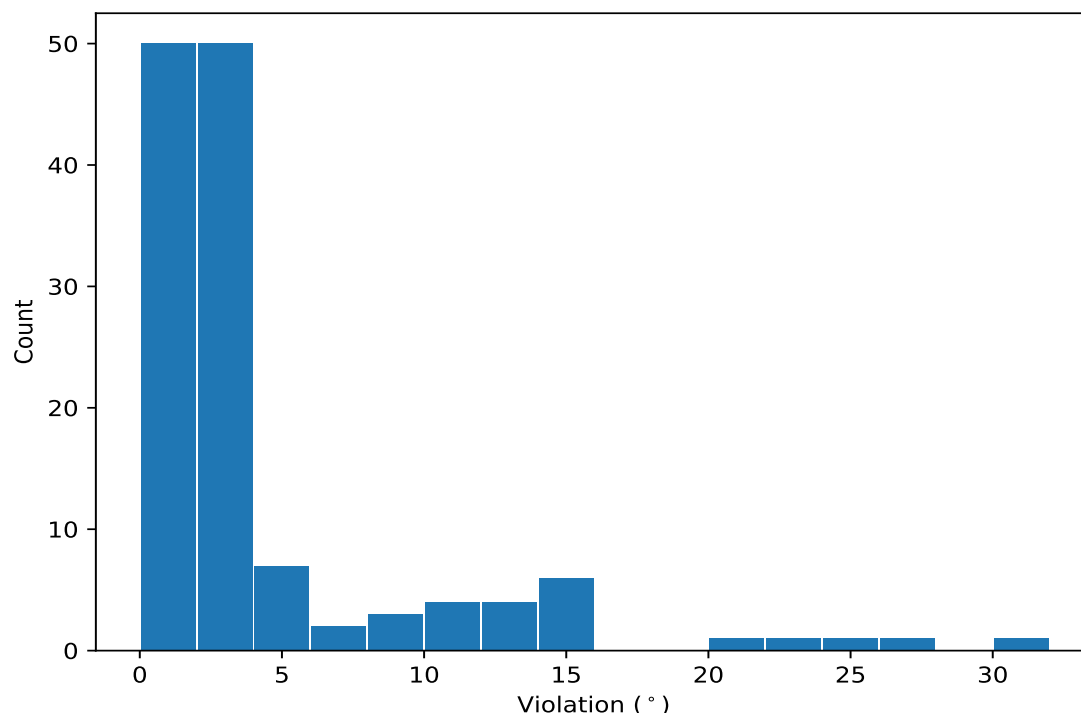
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,20)	1:344:A:GLY:C	1:345:A:VAL:N	1:345:A:VAL:CA	1:345:A:VAL:C	15	16.57	6.47	14.43
(1,64)	1:356:A:MET:N	1:356:A:MET:CA	1:356:A:MET:C	1:357:A:GLY:N	15	2.11	0.27	2.1
(1,140)	2:45:B:GLY:N	2:45:B:GLY:CA	2:45:B:GLY:C	2:46:B:ASN:N	15	1.98	0.32	2.01
(1,21)	1:345:A:VAL:C	1:346:A:ASP:N	1:346:A:ASP:CA	1:346:A:ASP:C	14	8.98	4.15	8.72
(1,146)	2:53:B:PHE:N	2:53:B:PHE:CA	2:53:B:PHE:C	2:54:B:CYS:N	12	2.27	0.42	2.3
(1,2)	1:324:A:ASP:C	1:325:A:ASP:N	1:325:A:ASP:CA	1:325:A:ASP:C	8	2.5	0.34	2.42
(1,115)	2:77:B:LYS:C	2:78:B:ILE:N	2:78:B:ILE:CA	2:78:B:ILE:C	8	1.91	0.83	1.72
(1,94)	2:55:B:ALA:C	2:56:B:SER:N	2:56:B:SER:CA	2:56:B:SER:C	8	1.52	0.29	1.39
(1,6)	1:329:A:MET:C	1:330:A:GLN:N	1:330:A:GLN:CA	1:330:A:GLN:C	7	2.55	1.27	2.93
(1,139)	2:44:B:CYS:N	2:44:B:CYS:CA	2:44:B:CYS:C	2:45:B:GLY:N	7	1.42	0.37	1.28
(1,84)	2:43:B:GLY:C	2:44:B:CYS:N	2:44:B:CYS:CA	2:44:B:CYS:C	4	1.45	0.18	1.38
(1,173)	2:81:B:LYS:N	2:81:B:LYS:CA	2:81:B:LYS:C	2:82:B:LEU:N	3	1.64	0.61	1.45
(1,56)	1:348:A:ASN:N	1:348:A:ASN:CA	1:348:A:ASN:C	1:349:A:ASN:N	2	3.56	2.52	3.56
(1,23)	1:347:A:PRO:C	1:348:A:ASN:N	1:348:A:ASN:CA	1:348:A:ASN:C	2	2.51	0.26	2.51
(1,117)	2:79:B:ASN:C	2:80:B:ALA:N	2:80:B:ALA:CA	2:80:B:ALA:C	2	1.68	0.42	1.68
(1,38)	1:329:A:MET:N	1:329:A:MET:CA	1:329:A:MET:C	1:330:A:GLN:N	2	1.45	0.31	1.45
(1,16)	1:340:A:GLU:C	1:341:A:ASN:N	1:341:A:ASN:CA	1:341:A:ASN:C	2	1.19	0.11	1.19

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 (°)
(1,20)	1:344:A:GLY:C	1:345:A:VAL:N	1:345:A:VAL:CA	1:345:A:VAL:C	15	30.02
(1,20)	1:344:A:GLY:C	1:345:A:VAL:N	1:345:A:VAL:CA	1:345:A:VAL:C	8	27.83
(1,20)	1:344:A:GLY:C	1:345:A:VAL:N	1:345:A:VAL:CA	1:345:A:VAL:C	11	24.33
(1,20)	1:344:A:GLY:C	1:345:A:VAL:N	1:345:A:VAL:CA	1:345:A:VAL:C	2	22.74
(1,21)	1:345:A:VAL:C	1:346:A:ASP:N	1:346:A:ASP:CA	1:346:A:ASP:C	12	20.04
(1,20)	1:344:A:GLY:C	1:345:A:VAL:N	1:345:A:VAL:CA	1:345:A:VAL:C	9	15.84
(1,20)	1:344:A:GLY:C	1:345:A:VAL:N	1:345:A:VAL:CA	1:345:A:VAL:C	7	15.39
(1,20)	1:344:A:GLY:C	1:345:A:VAL:N	1:345:A:VAL:CA	1:345:A:VAL:C	4	14.53
(1,20)	1:344:A:GLY:C	1:345:A:VAL:N	1:345:A:VAL:CA	1:345:A:VAL:C	6	14.43
(1,20)	1:344:A:GLY:C	1:345:A:VAL:N	1:345:A:VAL:CA	1:345:A:VAL:C	13	14.28
(1,20)	1:344:A:GLY:C	1:345:A:VAL:N	1:345:A:VAL:CA	1:345:A:VAL:C	5	14.07
(1,21)	1:345:A:VAL:C	1:346:A:ASP:N	1:346:A:ASP:CA	1:346:A:ASP:C	2	13.96
(1,20)	1:344:A:GLY:C	1:345:A:VAL:N	1:345:A:VAL:CA	1:345:A:VAL:C	14	13.4
(1,20)	1:344:A:GLY:C	1:345:A:VAL:N	1:345:A:VAL:CA	1:345:A:VAL:C	10	13.18

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,20)	1:344:A:GLY:C	1:345:A:VAL:N	1:345:A:VAL:CA	1:345:A:VAL:C	12	12.14
(1,21)	1:345:A:VAL:C	1:346:A:ASP:N	1:346:A:ASP:CA	1:346:A:ASP:C	4	11.67
(1,20)	1:344:A:GLY:C	1:345:A:VAL:N	1:345:A:VAL:CA	1:345:A:VAL:C	1	10.97
(1,21)	1:345:A:VAL:C	1:346:A:ASP:N	1:346:A:ASP:CA	1:346:A:ASP:C	9	10.75
(1,21)	1:345:A:VAL:C	1:346:A:ASP:N	1:346:A:ASP:CA	1:346:A:ASP:C	7	10.17
(1,21)	1:345:A:VAL:C	1:346:A:ASP:N	1:346:A:ASP:CA	1:346:A:ASP:C	13	9.24
(1,21)	1:345:A:VAL:C	1:346:A:ASP:N	1:346:A:ASP:CA	1:346:A:ASP:C	14	9.2
(1,21)	1:345:A:VAL:C	1:346:A:ASP:N	1:346:A:ASP:CA	1:346:A:ASP:C	10	8.24
(1,21)	1:345:A:VAL:C	1:346:A:ASP:N	1:346:A:ASP:CA	1:346:A:ASP:C	1	7.1
(1,56)	1:348:A:ASN:N	1:348:A:ASN:CA	1:348:A:ASN:C	1:349:A:ASN:N	2	6.09
(1,21)	1:345:A:VAL:C	1:346:A:ASP:N	1:346:A:ASP:CA	1:346:A:ASP:C	6	5.72
(1,21)	1:345:A:VAL:C	1:346:A:ASP:N	1:346:A:ASP:CA	1:346:A:ASP:C	5	5.53
(1,21)	1:345:A:VAL:C	1:346:A:ASP:N	1:346:A:ASP:CA	1:346:A:ASP:C	11	5.36
(1,20)	1:344:A:GLY:C	1:345:A:VAL:N	1:345:A:VAL:CA	1:345:A:VAL:C	3	5.33
(1,24)	1:348:A:ASN:C	1:349:A:ASN:N	1:349:A:ASN:CA	1:349:A:ASN:C	2	5.24
(1,21)	1:345:A:VAL:C	1:346:A:ASP:N	1:346:A:ASP:CA	1:346:A:ASP:C	15	4.63
(1,21)	1:345:A:VAL:C	1:346:A:ASP:N	1:346:A:ASP:CA	1:346:A:ASP:C	3	4.09
(1,6)	1:329:A:MET:C	1:330:A:GLN:N	1:330:A:GLN:CA	1:330:A:GLN:C	3	3.93
(1,6)	1:329:A:MET:C	1:330:A:GLN:N	1:330:A:GLN:CA	1:330:A:GLN:C	6	3.82
(1,6)	1:329:A:MET:C	1:330:A:GLN:N	1:330:A:GLN:CA	1:330:A:GLN:C	7	3.79
(1,115)	2:77:B:LYS:C	2:78:B:ILE:N	2:78:B:ILE:CA	2:78:B:ILE:C	6	3.66
(1,2)	1:324:A:ASP:C	1:325:A:ASP:N	1:325:A:ASP:CA	1:325:A:ASP:C	10	3.19
(1,146)	2:53:B:PHE:N	2:53:B:PHE:CA	2:53:B:PHE:C	2:54:B:CYS:N	6	3.09
(1,6)	1:329:A:MET:C	1:330:A:GLN:N	1:330:A:GLN:CA	1:330:A:GLN:C	15	2.93
(1,2)	1:324:A:ASP:C	1:325:A:ASP:N	1:325:A:ASP:CA	1:325:A:ASP:C	1	2.87
(1,146)	2:53:B:PHE:N	2:53:B:PHE:CA	2:53:B:PHE:C	2:54:B:CYS:N	3	2.82
(1,23)	1:347:A:PRO:C	1:348:A:ASN:N	1:348:A:ASN:CA	1:348:A:ASN:C	12	2.78
(1,115)	2:77:B:LYS:C	2:78:B:ILE:N	2:78:B:ILE:CA	2:78:B:ILE:C	9	2.6
(1,64)	1:356:A:MET:N	1:356:A:MET:CA	1:356:A:MET:C	1:357:A:GLY:N	13	2.58
(1,64)	1:356:A:MET:N	1:356:A:MET:CA	1:356:A:MET:C	1:357:A:GLY:N	3	2.55
(1,146)	2:53:B:PHE:N	2:53:B:PHE:CA	2:53:B:PHE:C	2:54:B:CYS:N	8	2.51
(1,146)	2:53:B:PHE:N	2:53:B:PHE:CA	2:53:B:PHE:C	2:54:B:CYS:N	10	2.51
(1,173)	2:81:B:LYS:N	2:81:B:LYS:CA	2:81:B:LYS:C	2:82:B:LEU:N	14	2.46
(1,2)	1:324:A:ASP:C	1:325:A:ASP:N	1:325:A:ASP:CA	1:325:A:ASP:C	3	2.46
(1,2)	1:324:A:ASP:C	1:325:A:ASP:N	1:325:A:ASP:CA	1:325:A:ASP:C	14	2.46
(1,146)	2:53:B:PHE:N	2:53:B:PHE:CA	2:53:B:PHE:C	2:54:B:CYS:N	7	2.45
(1,140)	2:45:B:GLY:N	2:45:B:GLY:CA	2:45:B:GLY:C	2:46:B:ASN:N	15	2.44
(1,140)	2:45:B:GLY:N	2:45:B:GLY:CA	2:45:B:GLY:C	2:46:B:ASN:N	9	2.41
(1,140)	2:45:B:GLY:N	2:45:B:GLY:CA	2:45:B:GLY:C	2:46:B:ASN:N	1	2.4
(1,64)	1:356:A:MET:N	1:356:A:MET:CA	1:356:A:MET:C	1:357:A:GLY:N	1	2.39
(1,2)	1:324:A:ASP:C	1:325:A:ASP:N	1:325:A:ASP:CA	1:325:A:ASP:C	4	2.38
(1,146)	2:53:B:PHE:N	2:53:B:PHE:CA	2:53:B:PHE:C	2:54:B:CYS:N	14	2.34
(1,64)	1:356:A:MET:N	1:356:A:MET:CA	1:356:A:MET:C	1:357:A:GLY:N	6	2.34
(1,2)	1:324:A:ASP:C	1:325:A:ASP:N	1:325:A:ASP:CA	1:325:A:ASP:C	2	2.28
(1,146)	2:53:B:PHE:N	2:53:B:PHE:CA	2:53:B:PHE:C	2:54:B:CYS:N	12	2.27
(1,2)	1:324:A:ASP:C	1:325:A:ASP:N	1:325:A:ASP:CA	1:325:A:ASP:C	12	2.27
(1,64)	1:356:A:MET:N	1:356:A:MET:CA	1:356:A:MET:C	1:357:A:GLY:N	14	2.26
(1,23)	1:347:A:PRO:C	1:348:A:ASN:N	1:348:A:ASN:CA	1:348:A:ASN:C	2	2.25
(1,137)	2:40:B:LEU:N	2:40:B:LEU:CA	2:40:B:LEU:C	2:41:B:THR:N	1	2.22
(1,140)	2:45:B:GLY:N	2:45:B:GLY:CA	2:45:B:GLY:C	2:46:B:ASN:N	8	2.19
(1,139)	2:44:B:CYS:N	2:44:B:CYS:CA	2:44:B:CYS:C	2:45:B:GLY:N	10	2.19

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,64)	1:356:A:MET:N	1:356:A:MET:CA	1:356:A:MET:C	1:357:A:GLY:N	8	2.17
(1,140)	2:45:B:GLY:N	2:45:B:GLY:CA	2:45:B:GLY:C	2:46:B:ASN:N	5	2.16
(1,175)	2:84:B:ASP:N	2:84:B:ASP:CA	2:84:B:ASP:C	2:85:B:PRO:N	7	2.13
(1,94)	2:55:B:ALA:C	2:56:B:SER:N	2:56:B:SER:CA	2:56:B:SER:C	2	2.13
(1,64)	1:356:A:MET:N	1:356:A:MET:CA	1:356:A:MET:C	1:357:A:GLY:N	15	2.13
(1,140)	2:45:B:GLY:N	2:45:B:GLY:CA	2:45:B:GLY:C	2:46:B:ASN:N	10	2.11
(1,117)	2:79:B:ASN:C	2:80:B:ALA:N	2:80:B:ALA:CA	2:80:B:ALA:C	10	2.1
(1,64)	1:356:A:MET:N	1:356:A:MET:CA	1:356:A:MET:C	1:357:A:GLY:N	12	2.1
(1,115)	2:77:B:LYS:C	2:78:B:ILE:N	2:78:B:ILE:CA	2:78:B:ILE:C	15	2.09
(1,2)	1:324:A:ASP:C	1:325:A:ASP:N	1:325:A:ASP:CA	1:325:A:ASP:C	5	2.09
(1,140)	2:45:B:GLY:N	2:45:B:GLY:CA	2:45:B:GLY:C	2:46:B:ASN:N	3	2.05
(1,64)	1:356:A:MET:N	1:356:A:MET:CA	1:356:A:MET:C	1:357:A:GLY:N	9	2.02
(1,146)	2:53:B:PHE:N	2:53:B:PHE:CA	2:53:B:PHE:C	2:54:B:CYS:N	4	2.01
(1,140)	2:45:B:GLY:N	2:45:B:GLY:CA	2:45:B:GLY:C	2:46:B:ASN:N	6	2.01
(1,64)	1:356:A:MET:N	1:356:A:MET:CA	1:356:A:MET:C	1:357:A:GLY:N	4	2.01
(1,64)	1:356:A:MET:N	1:356:A:MET:CA	1:356:A:MET:C	1:357:A:GLY:N	11	2.0
(1,146)	2:53:B:PHE:N	2:53:B:PHE:CA	2:53:B:PHE:C	2:54:B:CYS:N	11	1.99
(1,140)	2:45:B:GLY:N	2:45:B:GLY:CA	2:45:B:GLY:C	2:46:B:ASN:N	2	1.96
(1,115)	2:77:B:LYS:C	2:78:B:ILE:N	2:78:B:ILE:CA	2:78:B:ILE:C	14	1.96
(1,64)	1:356:A:MET:N	1:356:A:MET:CA	1:356:A:MET:C	1:357:A:GLY:N	10	1.9
(1,140)	2:45:B:GLY:N	2:45:B:GLY:CA	2:45:B:GLY:C	2:46:B:ASN:N	13	1.88
(1,94)	2:55:B:ALA:C	2:56:B:SER:N	2:56:B:SER:CA	2:56:B:SER:C	9	1.88
(1,146)	2:53:B:PHE:N	2:53:B:PHE:CA	2:53:B:PHE:C	2:54:B:CYS:N	5	1.86
(1,140)	2:45:B:GLY:N	2:45:B:GLY:CA	2:45:B:GLY:C	2:46:B:ASN:N	7	1.84
(1,64)	1:356:A:MET:N	1:356:A:MET:CA	1:356:A:MET:C	1:357:A:GLY:N	5	1.79
(1,64)	1:356:A:MET:N	1:356:A:MET:CA	1:356:A:MET:C	1:357:A:GLY:N	7	1.78
(1,140)	2:45:B:GLY:N	2:45:B:GLY:CA	2:45:B:GLY:C	2:46:B:ASN:N	14	1.76
(1,38)	1:329:A:MET:N	1:329:A:MET:CA	1:329:A:MET:C	1:330:A:GLN:N	14	1.76
(1,84)	2:43:B:GLY:C	2:44:B:CYS:N	2:44:B:CYS:CA	2:44:B:CYS:C	11	1.75
(1,39)	1:330:A:GLN:N	1:330:A:GLN:CA	1:330:A:GLN:C	1:331:A:ASP:N	15	1.72
(1,146)	2:53:B:PHE:N	2:53:B:PHE:CA	2:53:B:PHE:C	2:54:B:CYS:N	1	1.69
(1,140)	2:45:B:GLY:N	2:45:B:GLY:CA	2:45:B:GLY:C	2:46:B:ASN:N	12	1.68
(1,146)	2:53:B:PHE:N	2:53:B:PHE:CA	2:53:B:PHE:C	2:54:B:CYS:N	13	1.66
(1,1)	1:323:A:GLU:C	1:324:A:ASP:N	1:324:A:ASP:CA	1:324:A:ASP:C	14	1.65
(1,139)	2:44:B:CYS:N	2:44:B:CYS:CA	2:44:B:CYS:C	2:45:B:GLY:N	2	1.63
(1,64)	1:356:A:MET:N	1:356:A:MET:CA	1:356:A:MET:C	1:357:A:GLY:N	2	1.62
(1,94)	2:55:B:ALA:C	2:56:B:SER:N	2:56:B:SER:CA	2:56:B:SER:C	11	1.51
(1,115)	2:77:B:LYS:C	2:78:B:ILE:N	2:78:B:ILE:CA	2:78:B:ILE:C	13	1.49
(1,139)	2:44:B:CYS:N	2:44:B:CYS:CA	2:44:B:CYS:C	2:45:B:GLY:N	7	1.47
(1,94)	2:55:B:ALA:C	2:56:B:SER:N	2:56:B:SER:CA	2:56:B:SER:C	5	1.47
(1,173)	2:81:B:LYS:N	2:81:B:LYS:CA	2:81:B:LYS:C	2:82:B:LEU:N	15	1.45
(1,84)	2:43:B:GLY:C	2:44:B:CYS:N	2:44:B:CYS:CA	2:44:B:CYS:C	8	1.42
(1,140)	2:45:B:GLY:N	2:45:B:GLY:CA	2:45:B:GLY:C	2:46:B:ASN:N	11	1.4
(1,140)	2:45:B:GLY:N	2:45:B:GLY:CA	2:45:B:GLY:C	2:46:B:ASN:N	4	1.39
(1,115)	2:77:B:LYS:C	2:78:B:ILE:N	2:78:B:ILE:CA	2:78:B:ILE:C	11	1.38
(1,84)	2:43:B:GLY:C	2:44:B:CYS:N	2:44:B:CYS:CA	2:44:B:CYS:C	15	1.33
(1,6)	1:329:A:MET:C	1:330:A:GLN:N	1:330:A:GLN:CA	1:330:A:GLN:C	13	1.32
(1,94)	2:55:B:ALA:C	2:56:B:SER:N	2:56:B:SER:CA	2:56:B:SER:C	7	1.31
(1,94)	2:55:B:ALA:C	2:56:B:SER:N	2:56:B:SER:CA	2:56:B:SER:C	8	1.31
(1,94)	2:55:B:ALA:C	2:56:B:SER:N	2:56:B:SER:CA	2:56:B:SER:C	13	1.3
(1,16)	1:340:A:GLU:C	1:341:A:ASN:N	1:341:A:ASN:CA	1:341:A:ASN:C	9	1.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,94)	2:55:B:ALA:C	2:56:B:SER:N	2:56:B:SER:CA	2:56:B:SER:C	6	1.29
(1,84)	2:43:B:GLY:C	2:44:B:CYS:N	2:44:B:CYS:CA	2:44:B:CYS:C	13	1.29
(1,139)	2:44:B:CYS:N	2:44:B:CYS:CA	2:44:B:CYS:C	2:45:B:GLY:N	14	1.28
(1,117)	2:79:B:ASN:C	2:80:B:ALA:N	2:80:B:ALA:CA	2:80:B:ALA:C	5	1.26
(1,139)	2:44:B:CYS:N	2:44:B:CYS:CA	2:44:B:CYS:C	2:45:B:GLY:N	15	1.21
(1,139)	2:44:B:CYS:N	2:44:B:CYS:CA	2:44:B:CYS:C	2:45:B:GLY:N	6	1.14
(1,38)	1:329:A:MET:N	1:329:A:MET:CA	1:329:A:MET:C	1:330:A:GLN:N	11	1.14
(1,115)	2:77:B:LYS:C	2:78:B:ILE:N	2:78:B:ILE:CA	2:78:B:ILE:C	10	1.1
(1,16)	1:340:A:GLU:C	1:341:A:ASN:N	1:341:A:ASN:CA	1:341:A:ASN:C	4	1.08
(1,56)	1:348:A:ASN:N	1:348:A:ASN:CA	1:348:A:ASN:C	1:349:A:ASN:N	12	1.04
(1,6)	1:329:A:MET:C	1:330:A:GLN:N	1:330:A:GLN:CA	1:330:A:GLN:C	9	1.04
(1,6)	1:329:A:MET:C	1:330:A:GLN:N	1:330:A:GLN:CA	1:330:A:GLN:C	14	1.04
(1,139)	2:44:B:CYS:N	2:44:B:CYS:CA	2:44:B:CYS:C	2:45:B:GLY:N	4	1.03
(1,115)	2:77:B:LYS:C	2:78:B:ILE:N	2:78:B:ILE:CA	2:78:B:ILE:C	2	1.02
(1,173)	2:81:B:LYS:N	2:81:B:LYS:CA	2:81:B:LYS:C	2:82:B:LEU:N	7	1.0