



Full wwPDB NMR Structure Validation Report ⓘ

Dec 24, 2024 – 11:36 AM EST

PDB ID : 2B89
BMRB ID : 6805
Title : Structural basis for molecular recognition in an affibody:affibody complex
Authors : Lendel, C.; Dogan, J.; Hard, T.
Deposited on : 2005-10-06

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/NMRValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.40

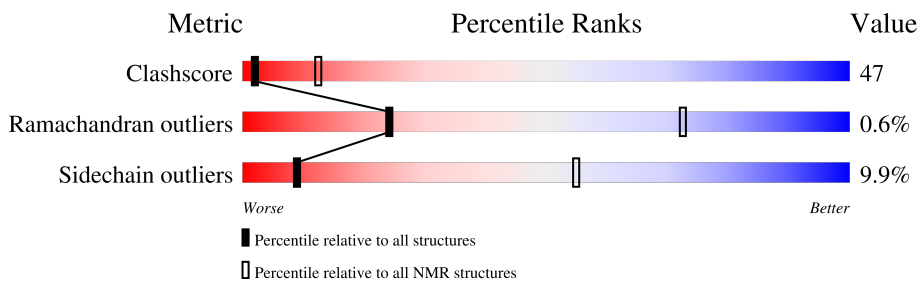
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 93%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	210492	14027
Ramachandran outliers	207382	12486
Sidechain outliers	206894	12463

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

Mol	Chain	Length	Quality of chain
1	A	58	 34% 52% 5% 9%

2 Ensemble composition and analysis i

This entry contains 40 models. Model 1 is the overall representative, medoid model (most similar to other models).

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:4-A:56 (53)	0.23	1

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 7 clusters and 4 single-model clusters were found.

Cluster number	Models
1	1, 5, 6, 7, 11, 15, 16, 18, 19, 21, 22, 24, 30, 33, 38
2	2, 9, 13, 31, 32, 39
3	3, 4, 23, 36, 40
4	12, 34, 37
5	17, 28, 29
6	10, 27
7	25, 35
Single-model clusters	8; 14; 20; 26

3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 920 atoms, of which 469 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called anti-ZTaq affibody.

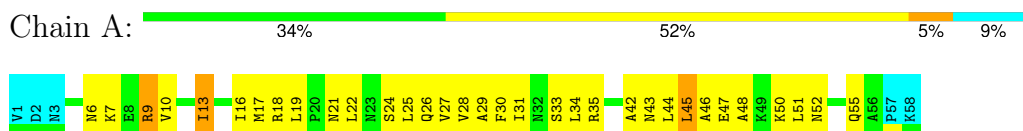
Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
1	A	58	920	281	469	82	87	1	0

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: anti-ZTaq affibody

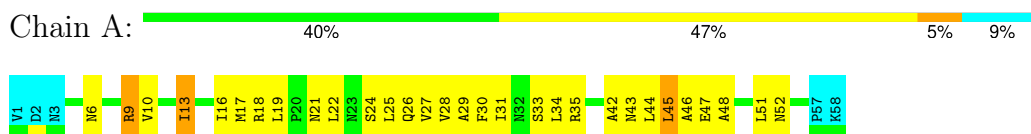


4.2 Scores per residue for each member of the ensemble

Colouring as in section [4.1](#) above.

4.2.1 Score per residue for model 1 (medoid)

- Molecule 1: anti-ZTaq affibody



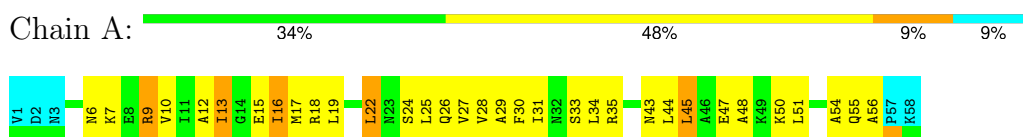
4.2.2 Score per residue for model 2

- Molecule 1: anti-ZTaq affibody



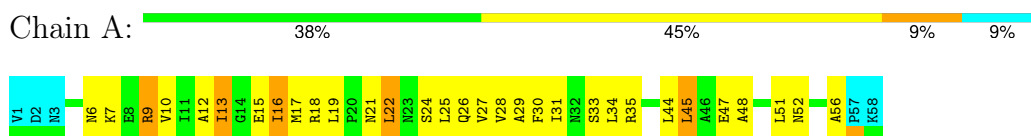
4.2.3 Score per residue for model 3

- Molecule 1: anti-ZTaq affibody



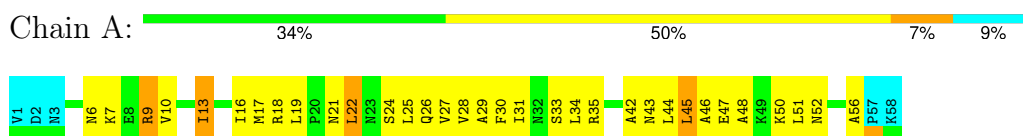
4.2.4 Score per residue for model 4

- Molecule 1: anti-ZTaq affibody



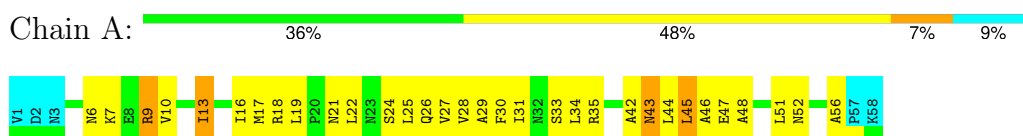
4.2.5 Score per residue for model 5

- Molecule 1: anti-ZTaq affibody



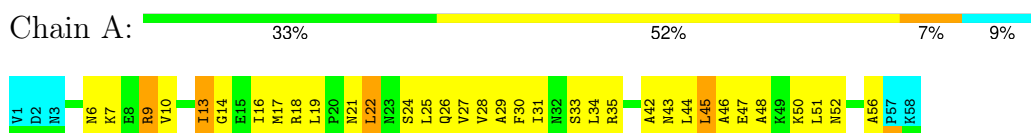
4.2.6 Score per residue for model 6

- Molecule 1: anti-ZTaq affibody



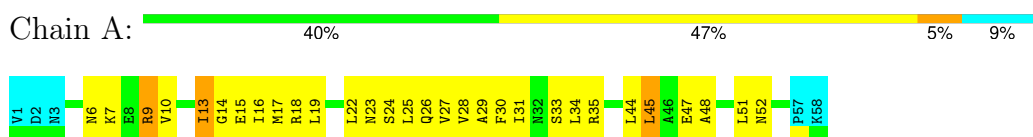
4.2.7 Score per residue for model 7

- Molecule 1: anti-ZTaq affibody



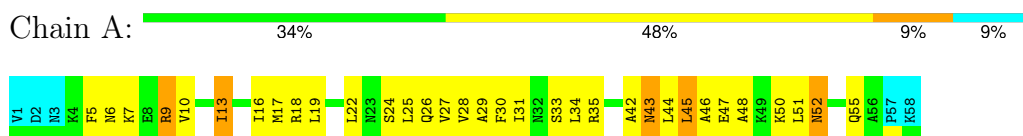
4.2.8 Score per residue for model 8

- Molecule 1: anti-ZTaq affibody



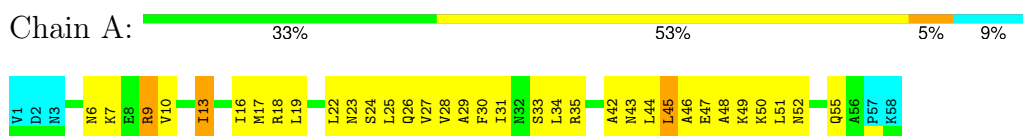
4.2.9 Score per residue for model 9

- Molecule 1: anti-ZTaq affibody



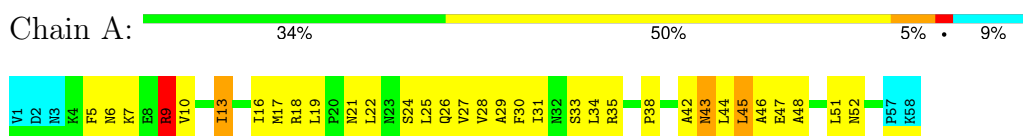
4.2.10 Score per residue for model 10

- Molecule 1: anti-ZTaq affibody



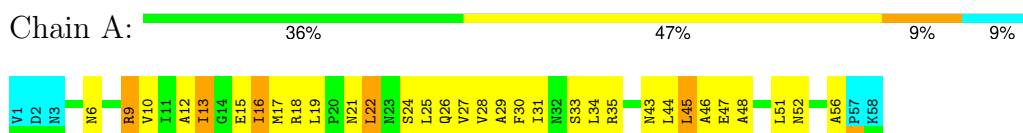
4.2.11 Score per residue for model 11

- Molecule 1: anti-ZTaq affibody



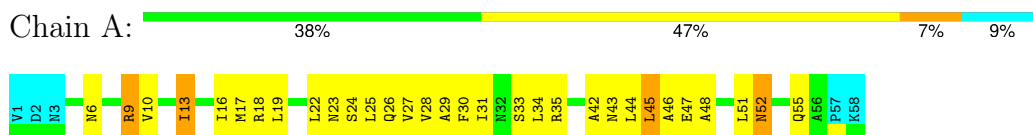
4.2.12 Score per residue for model 12

- Molecule 1: anti-ZTaq affibody



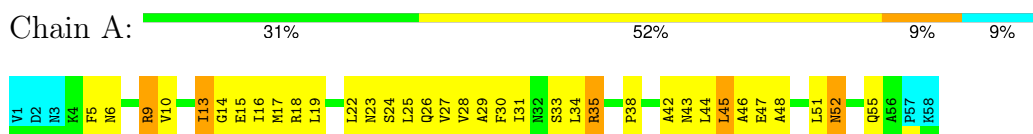
4.2.13 Score per residue for model 13

- Molecule 1: anti-ZTaq affibody



4.2.14 Score per residue for model 14

- Molecule 1: anti-ZTaq affibody



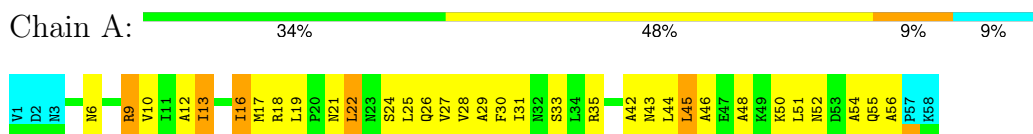
4.2.15 Score per residue for model 15

- Molecule 1: anti-ZTaq affibody



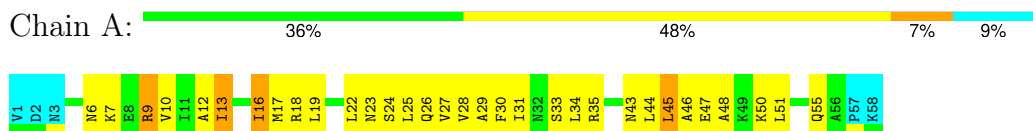
4.2.16 Score per residue for model 16

- Molecule 1: anti-ZTaq affibody



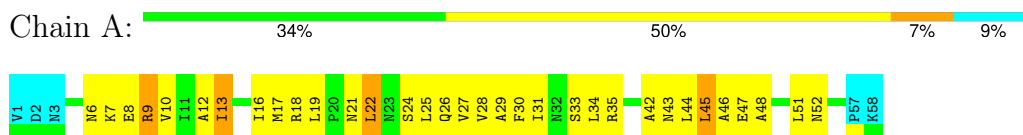
4.2.17 Score per residue for model 17

- Molecule 1: anti-ZTaq affibody



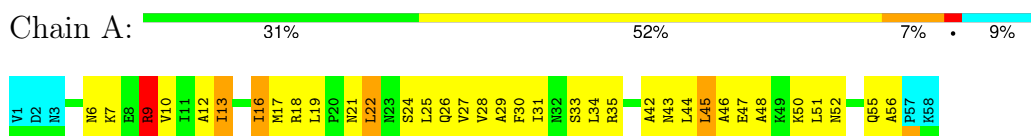
4.2.18 Score per residue for model 18

- Molecule 1: anti-ZTaq affibody



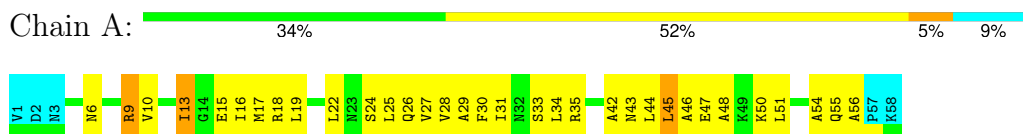
4.2.19 Score per residue for model 19

- Molecule 1: anti-ZTaq affibody



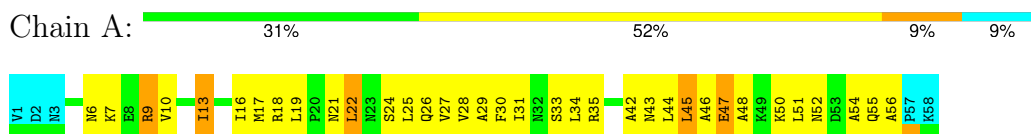
4.2.20 Score per residue for model 20

- Molecule 1: anti-ZTaq affibody



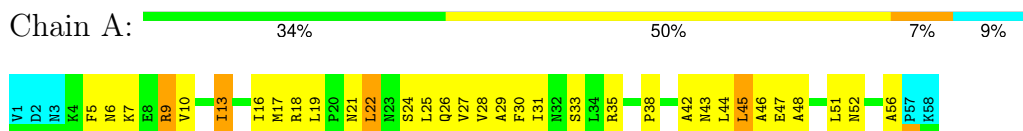
4.2.21 Score per residue for model 21

- Molecule 1: anti-ZTaq affibody



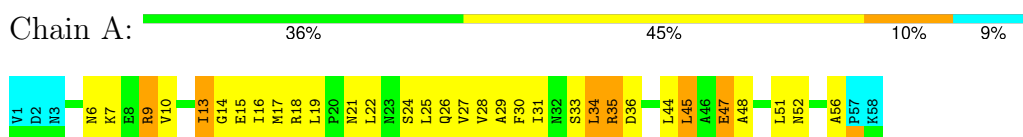
4.2.22 Score per residue for model 22

- Molecule 1: anti-ZTaq affibody



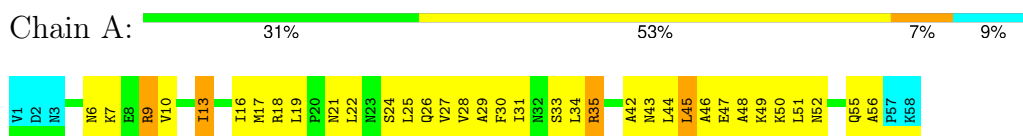
4.2.23 Score per residue for model 23

- Molecule 1: anti-ZTaq affibody



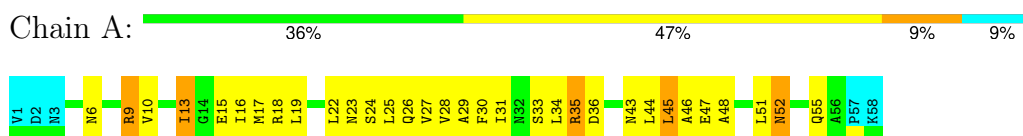
4.2.24 Score per residue for model 24

- Molecule 1: anti-ZTaq affibody



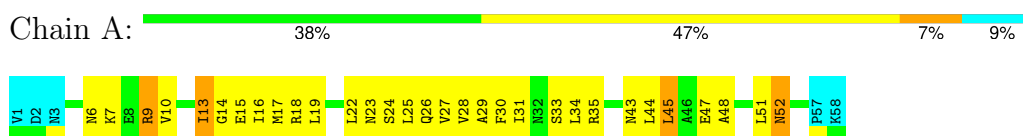
4.2.25 Score per residue for model 25

- Molecule 1: anti-ZTaq affibody



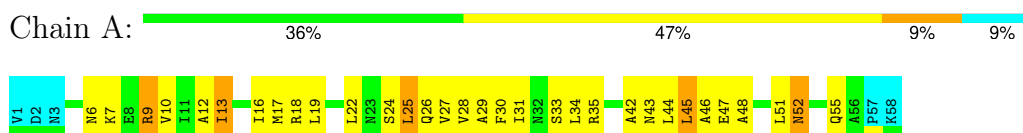
4.2.26 Score per residue for model 26

- Molecule 1: anti-ZTaq affibody



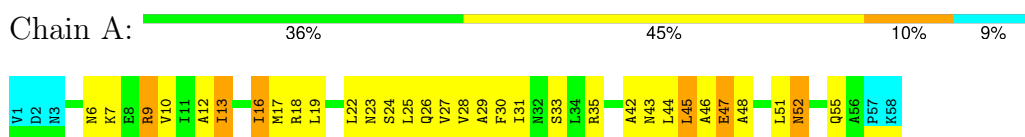
4.2.27 Score per residue for model 27

- Molecule 1: anti-ZTaq affibody



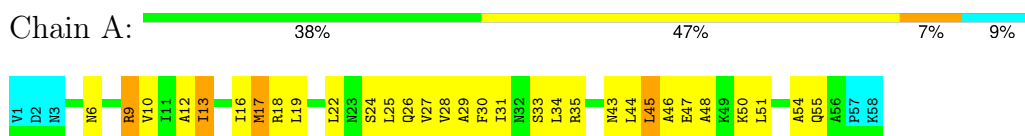
4.2.28 Score per residue for model 28

- Molecule 1: anti-ZTaq affibody



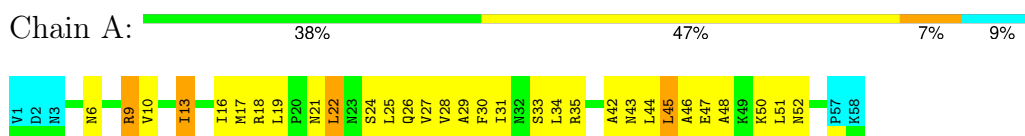
4.2.29 Score per residue for model 29

- Molecule 1: anti-ZTaq affibody



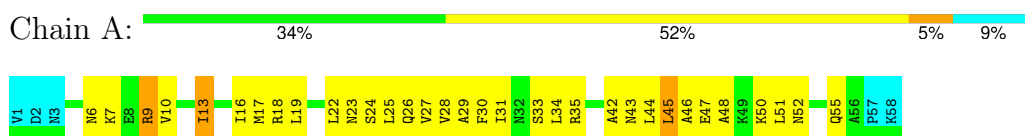
4.2.30 Score per residue for model 30

- Molecule 1: anti-ZTaq affibody



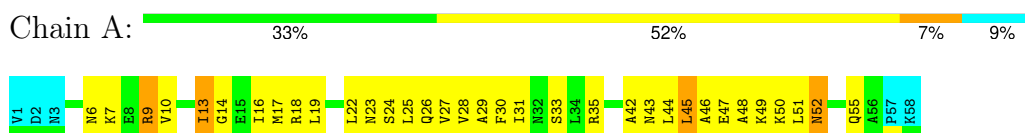
4.2.31 Score per residue for model 31

- Molecule 1: anti-ZTaq affibody



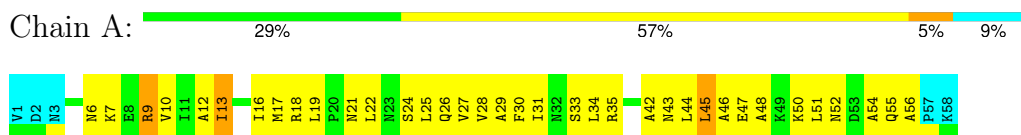
4.2.32 Score per residue for model 32

- Molecule 1: anti-ZTaq affibody



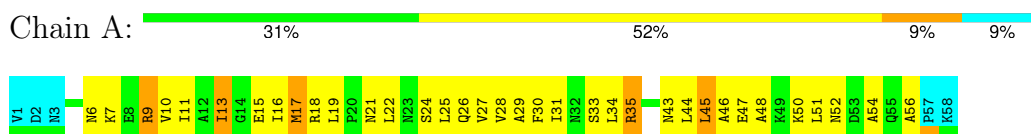
4.2.33 Score per residue for model 33

- Molecule 1: anti-ZTaq affibody



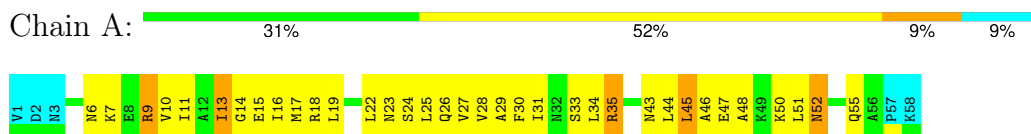
4.2.34 Score per residue for model 34

- Molecule 1: anti-ZTaq affibody



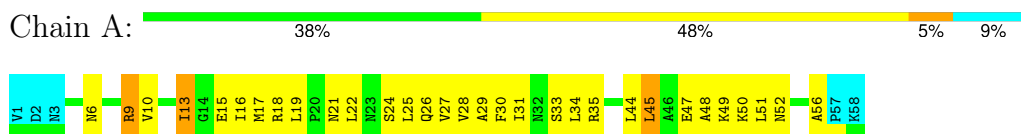
4.2.35 Score per residue for model 35

- Molecule 1: anti-ZTaq affibody



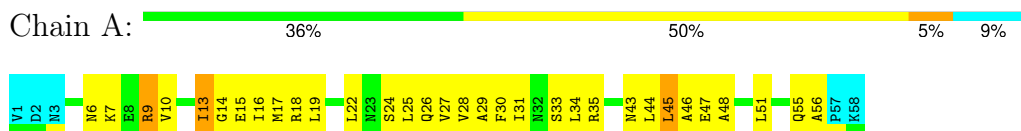
4.2.36 Score per residue for model 36

- Molecule 1: anti-ZTaq affibody



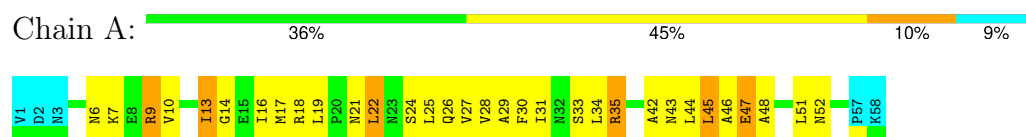
4.2.37 Score per residue for model 37

- Molecule 1: anti-ZTaq affibody



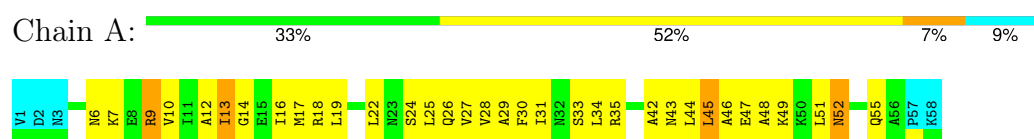
4.2.38 Score per residue for model 38

- Molecule 1: anti-ZTaq affibody



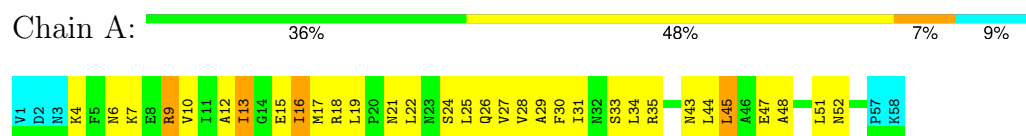
4.2.39 Score per residue for model 39

- Molecule 1: anti-ZTaq affibody



4.2.40 Score per residue for model 40

- Molecule 1: anti-ZTaq affibody



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 40 were deposited, based on the following criterion: *structures with the least restraint violations, structures with the lowest energy, good ramachandran plots*.

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

Software name	Classification	Version
X-PLOR	structure solution	
X-PLOR	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	747
Number of shifts mapped to atoms	747
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	93%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

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

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	3.0±0.0
All	All	0	120

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	A	9	ARG	Sidechain	40
1	A	18	ARG	Sidechain	40
1	A	35	ARG	Sidechain	40

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	411	428	428	40±4
All	All	16440	17120	17120	1586

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 47.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:16:ILE:HD13	1:A:30:PHE:HB3	0.98	1.36	6	31
1:A:19:LEU:CD1	1:A:48:ALA:HB1	0.92	1.95	35	40
1:A:16:ILE:HD12	1:A:30:PHE:HB3	0.90	1.39	28	9
1:A:22:LEU:HD21	1:A:51:LEU:HB3	0.88	1.44	12	40
1:A:6:ASN:O	1:A:10:VAL:HG23	0.85	1.72	14	40
1:A:19:LEU:HD11	1:A:48:ALA:HB1	0.83	1.51	12	23
1:A:15:GLU:HB3	1:A:45:LEU:HD21	0.79	1.54	34	5
1:A:24:SER:O	1:A:28:VAL:HG23	0.77	1.78	27	40
1:A:16:ILE:HG21	1:A:30:PHE:CB	0.76	2.11	35	40
1:A:25:LEU:H	1:A:25:LEU:HD12	0.76	1.41	16	32
1:A:25:LEU:HD22	1:A:25:LEU:H	0.75	1.39	27	2
1:A:45:LEU:C	1:A:45:LEU:HD22	0.74	2.01	20	2
1:A:17:MET:CE	1:A:31:ILE:HD11	0.73	2.13	17	40
1:A:15:GLU:HB3	1:A:45:LEU:HD13	0.72	1.61	3	7
1:A:15:GLU:CB	1:A:45:LEU:HD23	0.71	2.15	20	2
1:A:43:ASN:O	1:A:46:ALA:HB3	0.70	1.84	28	31
1:A:26:GLN:NE2	1:A:51:LEU:HD12	0.70	2.01	8	1
1:A:16:ILE:HG21	1:A:30:PHE:HB2	0.69	1.65	37	40
1:A:47:GLU:O	1:A:51:LEU:HD23	0.68	1.88	25	34
1:A:19:LEU:CB	1:A:22:LEU:HD12	0.65	2.21	35	28
1:A:16:ILE:HD13	1:A:30:PHE:CB	0.64	2.20	24	31
1:A:45:LEU:HD22	1:A:45:LEU:O	0.64	1.91	20	2
1:A:45:LEU:HD13	1:A:46:ALA:N	0.63	2.07	14	2
1:A:17:MET:HE1	1:A:31:ILE:HD11	0.63	1.70	26	38
1:A:15:GLU:HB3	1:A:45:LEU:HD23	0.63	1.71	20	2
1:A:51:LEU:HD12	1:A:55:GLN:OE1	0.62	1.94	25	5
1:A:45:LEU:HD22	1:A:45:LEU:H	0.62	1.53	32	26
1:A:19:LEU:HB3	1:A:22:LEU:HD12	0.62	1.71	37	7
1:A:16:ILE:HD11	1:A:45:LEU:HA	0.60	1.73	20	6
1:A:17:MET:SD	1:A:27:VAL:CG1	0.60	2.89	15	38
1:A:17:MET:SD	1:A:17:MET:N	0.60	2.74	34	2
1:A:17:MET:HE2	1:A:31:ILE:HD11	0.60	1.72	34	2
1:A:19:LEU:HD13	1:A:22:LEU:CD1	0.58	2.29	11	23
1:A:22:LEU:HD22	1:A:26:GLN:HB3	0.58	1.76	35	30
1:A:16:ILE:HD11	1:A:45:LEU:CA	0.57	2.30	20	6
1:A:22:LEU:HD23	1:A:55:GLN:NE2	0.56	2.15	29	19
1:A:42:ALA:HA	1:A:45:LEU:HD12	0.56	1.78	14	2
1:A:45:LEU:C	1:A:45:LEU:HD12	0.56	2.21	3	5
1:A:33:SER:CB	1:A:44:LEU:HD22	0.55	2.30	35	39
1:A:47:GLU:O	1:A:51:LEU:N	0.55	2.38	34	32
1:A:9:ARG:O	1:A:13:ILE:HG22	0.55	2.01	14	40
1:A:16:ILE:HG21	1:A:30:PHE:HB3	0.55	1.79	3	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:25:LEU:HD12	1:A:25:LEU:N	0.55	2.16	6	34
1:A:15:GLU:CB	1:A:45:LEU:HD13	0.55	2.32	4	7
1:A:25:LEU:HD22	1:A:25:LEU:N	0.54	2.15	2	2
1:A:45:LEU:HD13	1:A:45:LEU:N	0.54	2.17	22	26
1:A:25:LEU:O	1:A:29:ALA:N	0.54	2.39	28	40
1:A:17:MET:CE	1:A:27:VAL:HG12	0.53	2.33	40	40
1:A:52:ASN:OD1	1:A:52:ASN:C	0.53	2.47	27	11
1:A:45:LEU:O	1:A:49:LYS:N	0.52	2.35	10	5
1:A:19:LEU:CD1	1:A:48:ALA:CB	0.51	2.86	9	13
1:A:15:GLU:CB	1:A:45:LEU:HD21	0.51	2.32	34	4
1:A:25:LEU:H	1:A:25:LEU:CD2	0.50	2.16	2	2
1:A:45:LEU:HD22	1:A:45:LEU:N	0.50	2.19	32	22
1:A:45:LEU:C	1:A:45:LEU:CD2	0.49	2.79	20	2
1:A:43:ASN:O	1:A:47:GLU:N	0.49	2.43	14	5
1:A:19:LEU:HD13	1:A:48:ALA:HB1	0.49	1.82	2	9
1:A:22:LEU:HD23	1:A:55:GLN:HE22	0.48	1.66	27	2
1:A:25:LEU:H	1:A:25:LEU:CD1	0.48	2.18	29	35
1:A:45:LEU:O	1:A:45:LEU:HD12	0.48	2.08	23	2
1:A:30:PHE:O	1:A:34:LEU:HG	0.48	2.09	8	36
1:A:42:ALA:O	1:A:45:LEU:CD2	0.48	2.62	32	23
1:A:25:LEU:HD12	1:A:25:LEU:H	0.48	1.69	10	6
1:A:45:LEU:HD12	1:A:45:LEU:O	0.48	2.08	36	5
1:A:21:ASN:ND2	1:A:52:ASN:ND2	0.48	2.62	11	17
1:A:17:MET:HE3	1:A:31:ILE:HD11	0.48	1.85	40	38
1:A:45:LEU:HD12	1:A:45:LEU:C	0.47	2.29	23	2
1:A:24:SER:O	1:A:28:VAL:CG2	0.47	2.60	27	40
1:A:15:GLU:HB2	1:A:45:LEU:HD23	0.47	1.86	14	2
1:A:51:LEU:HD23	1:A:55:GLN:OE1	0.47	2.09	29	1
1:A:30:PHE:CE1	1:A:44:LEU:O	0.47	2.68	3	13
1:A:16:ILE:CD1	1:A:45:LEU:HA	0.47	2.40	20	2
1:A:42:ALA:O	1:A:46:ALA:HB2	0.46	2.10	14	2
1:A:26:GLN:O	1:A:29:ALA:HB3	0.46	2.10	5	39
1:A:30:PHE:CZ	1:A:48:ALA:HA	0.46	2.46	28	30
1:A:6:ASN:O	1:A:10:VAL:N	0.46	2.48	40	7
1:A:19:LEU:HB2	1:A:22:LEU:HD12	0.46	1.87	31	5
1:A:12:ALA:O	1:A:16:ILE:CG1	0.46	2.64	40	9
1:A:33:SER:CB	1:A:44:LEU:HD13	0.46	2.41	8	14
1:A:17:MET:CE	1:A:31:ILE:CD1	0.46	2.93	8	32
1:A:22:LEU:HD21	1:A:51:LEU:CB	0.45	2.35	3	2
1:A:50:LYS:O	1:A:54:ALA:N	0.45	2.46	29	6
1:A:19:LEU:CD1	1:A:22:LEU:CD1	0.45	2.94	37	17

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:33:SER:HB3	1:A:44:LEU:CD2	0.45	2.42	35	9
1:A:47:GLU:O	1:A:51:LEU:HD13	0.45	2.12	33	2
1:A:42:ALA:HA	1:A:45:LEU:HD21	0.44	1.90	1	8
1:A:15:GLU:CB	1:A:45:LEU:CD2	0.43	2.94	20	2
1:A:25:LEU:N	1:A:25:LEU:CD1	0.43	2.81	6	6
1:A:19:LEU:HD11	1:A:48:ALA:CB	0.43	2.41	5	15
1:A:55:GLN:O	1:A:56:ALA:C	0.43	2.56	37	2
1:A:42:ALA:O	1:A:45:LEU:HD22	0.43	2.14	1	6
1:A:5:PHE:CE1	1:A:38:PRO:HG2	0.43	2.49	14	1
1:A:21:ASN:HD22	1:A:52:ASN:ND2	0.42	2.11	1	4
1:A:12:ALA:HB3	1:A:34:LEU:HD13	0.42	1.91	33	5
1:A:45:LEU:N	1:A:45:LEU:HD22	0.42	2.27	22	2
1:A:50:LYS:O	1:A:54:ALA:CB	0.42	2.66	34	2
1:A:33:SER:HB3	1:A:44:LEU:HD22	0.42	1.90	35	3
1:A:28:VAL:HG13	1:A:31:ILE:HD12	0.42	1.91	27	11
1:A:24:SER:O	1:A:28:VAL:N	0.42	2.48	10	9
1:A:5:PHE:CE2	1:A:38:PRO:HG3	0.42	2.49	22	2
1:A:9:ARG:HG2	1:A:34:LEU:CB	0.42	2.45	13	1
1:A:26:GLN:NE2	1:A:55:GLN:OE1	0.42	2.53	25	2
1:A:26:GLN:HE21	1:A:51:LEU:HD12	0.41	1.69	8	1
1:A:16:ILE:CG1	1:A:45:LEU:HA	0.41	2.44	20	3
1:A:13:ILE:CG2	1:A:14:GLY:N	0.41	2.83	8	10
1:A:16:ILE:CD1	1:A:30:PHE:HB3	0.41	2.36	20	2
1:A:44:LEU:O	1:A:48:ALA:N	0.41	2.48	4	4
1:A:5:PHE:O	1:A:9:ARG:N	0.41	2.45	9	1
1:A:16:ILE:HG12	1:A:48:ALA:CB	0.41	2.45	14	2
1:A:45:LEU:O	1:A:48:ALA:HB3	0.41	2.14	35	1
1:A:17:MET:HE2	1:A:31:ILE:CD1	0.41	2.45	34	1
1:A:17:MET:SD	1:A:27:VAL:HG13	0.40	2.56	29	1
1:A:11:ILE:O	1:A:15:GLU:CG	0.40	2.70	35	2
1:A:9:ARG:O	1:A:13:ILE:CG2	0.40	2.69	14	1
1:A:16:ILE:CG2	1:A:30:PHE:CB	0.40	2.96	19	2
1:A:35:ARG:HG2	1:A:36:ASP:N	0.40	2.31	25	1
1:A:48:ALA:O	1:A:52:ASN:N	0.40	2.48	33	1
1:A:45:LEU:HD11	1:A:49:LYS:NZ	0.40	2.32	36	1
1:A:30:PHE:CZ	1:A:48:ALA:CA	0.40	3.05	9	2

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	53/58 (91%)	50±1 (94±2%)	3±1 (5±1%)	0±0 (1±1%)	24	72
All	All	2120/2320 (91%)	1993 (94%)	114 (5%)	13 (1%)	24	72

All 1 unique Ramachandran outliers are listed below.

Mol	Chain	Res	Type	Models (Total)
1	A	22	LEU	13

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	45/50 (90%)	41±1 (90±3%)	4±1 (10±3%)	9	55
All	All	1800/2000 (90%)	1621 (90%)	179 (10%)	9	55

All 17 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	13	ILE	40
1	A	45	LEU	40
1	A	7	LYS	29
1	A	52	ASN	14
1	A	50	LYS	13
1	A	23	ASN	11
1	A	16	ILE	9
1	A	35	ARG	6
1	A	47	GLU	4
1	A	43	ASN	3

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Mol	Chain	Res	Type	Models (Total)
1	A	25	LEU	2
1	A	9	ARG	2
1	A	17	MET	2
1	A	8	GLU	1
1	A	34	LEU	1
1	A	36	ASP	1
1	A	4	LYS	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 93% for the well-defined parts and 93% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *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	747
Number of shifts mapped to atoms	747
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
$^{13}\text{C}_\alpha$	58	-0.45 ± 0.27	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	57	0.24 ± 0.10	None needed (< 0.5 ppm)
$^{13}\text{C}'$	56	-0.37 ± 0.28	None needed (< 0.5 ppm)
^{15}N	53	-0.53 ± 0.30	None needed (imprecise)

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 93%, i.e. 689 atoms were assigned a chemical shift out of a possible 740. 0 out of 10 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	261/262 (100%)	105/105 (100%)	105/106 (99%)	51/51 (100%)
Sidechain	418/458 (91%)	285/297 (96%)	121/139 (87%)	12/22 (55%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	10/20 (50%)	10/10 (100%)	0/10 (0%)	0/0 (—%)
Overall	689/740 (93%)	400/412 (97%)	226/255 (89%)	63/73 (86%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 93%, i.e. 747 atoms were assigned a chemical shift out of a possible 806. 0 out of 11 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	279/285 (98%)	112/114 (98%)	114/116 (98%)	53/55 (96%)
Sidechain	458/501 (91%)	312/324 (96%)	133/153 (87%)	13/24 (54%)
Aromatic	10/20 (50%)	10/10 (100%)	0/10 (0%)	0/0 (—%)
Overall	747/806 (93%)	434/448 (97%)	247/279 (89%)	66/79 (84%)

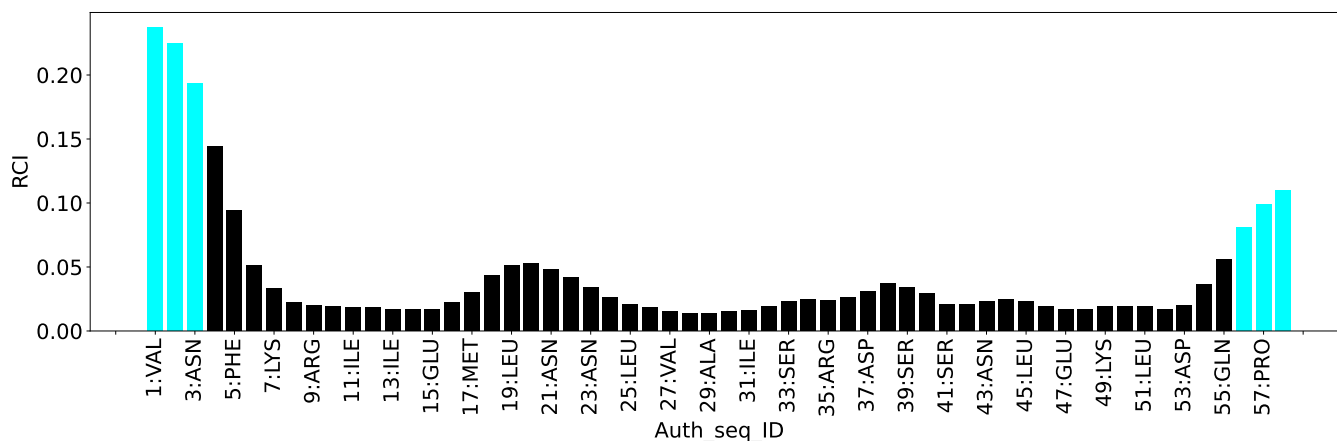
7.1.4 Statistically unusual chemical shifts [i](#)

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:



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	1210
Intra-residue ($ i-j =0$)	381
Sequential ($ i-j =1$)	311
Medium range ($ i-j >1$ and $ i-j <5$)	339
Long range ($ i-j \geq 5$)	179
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	106
Number of unmapped restraints	0
Number of restraints per residue	22.7
Number of long range restraints per residue ¹	3.1

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)	14.7	0.2
0.2-0.5 (Medium)	7.0	0.35
>0.5 (Large)	None	None

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)	20.0	4.86
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis

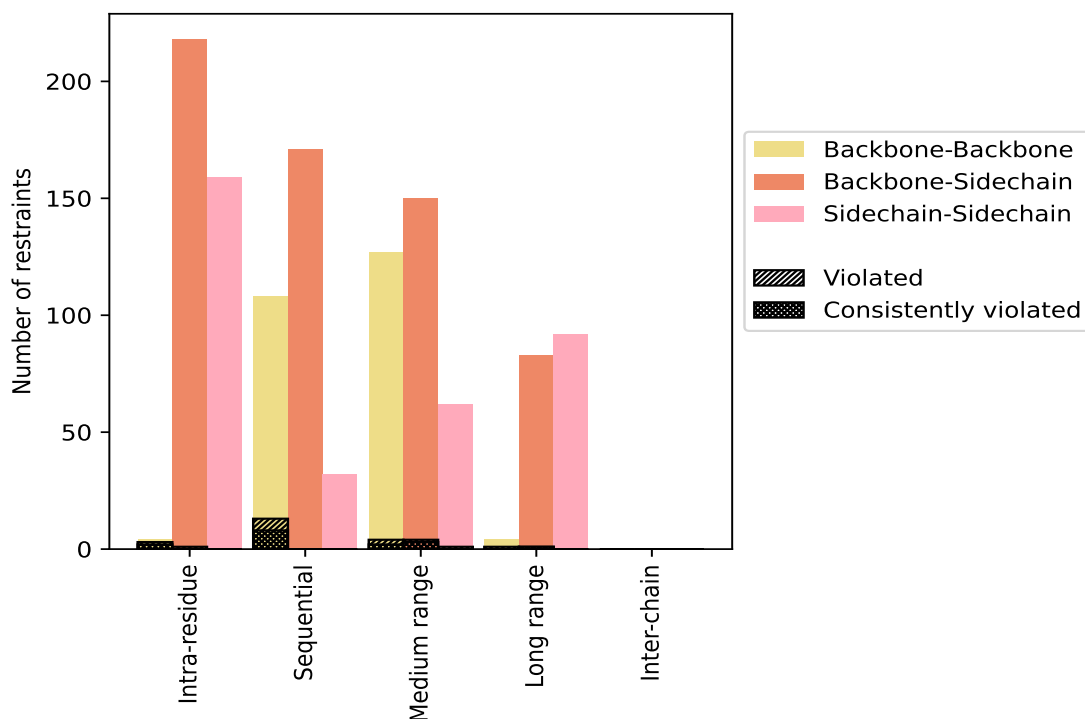
9.1 Summary of distance violations

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	381	31.5	4	1.0	0.3	2	0.5	0.2
Backbone-Backbone	4	0.3	3	75.0	0.2	2	50.0	0.2
Backbone-Sidechain	218	18.0	1	0.5	0.1	0	0.0	0.0
Sidechain-Sidechain	159	13.1	0	0.0	0.0	0	0.0	0.0
Sequential ($i-j =1$)	311	25.7	13	4.2	1.1	8	2.6	0.7
Backbone-Backbone	108	8.9	13	12.0	1.1	8	7.4	0.7
Backbone-Sidechain	171	14.1	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	32	2.6	0	0.0	0.0	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	339	28.0	9	2.7	0.7	5	1.5	0.4
Backbone-Backbone	127	10.5	4	3.1	0.3	2	1.6	0.2
Backbone-Sidechain	150	12.4	4	2.7	0.3	3	2.0	0.2
Sidechain-Sidechain	62	5.1	1	1.6	0.1	0	0.0	0.0
Long range ($i-j \geq 5$)	179	14.8	2	1.1	0.2	1	0.6	0.1
Backbone-Backbone	4	0.3	1	25.0	0.1	0	0.0	0.0
Backbone-Sidechain	83	6.9	1	1.2	0.1	1	1.2	0.1
Sidechain-Sidechain	92	7.6	0	0.0	0.0	0	0.0	0.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1210	100.0	28	2.3	2.3	16	1.3	1.3
Backbone-Backbone	243	20.1	21	8.6	1.7	12	4.9	1.0
Backbone-Sidechain	622	51.4	6	1.0	0.5	4	0.6	0.3
Sidechain-Sidechain	345	28.5	1	0.3	0.1	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 disulfid bonds are counted in their appropriate category on the x-axis

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	4	10	7	2	0	23	0.17	0.29	0.05	0.17
2	4	10	7	1	0	22	0.17	0.3	0.05	0.16
3	3	10	7	1	0	21	0.18	0.29	0.05	0.18
4	4	11	7	1	0	23	0.18	0.3	0.05	0.17
5	4	11	7	1	0	23	0.18	0.29	0.05	0.16
6	4	11	7	1	0	23	0.17	0.32	0.05	0.17
7	4	11	8	1	0	24	0.18	0.29	0.05	0.16
8	4	10	8	1	0	23	0.19	0.32	0.06	0.17
9	4	10	8	1	0	23	0.17	0.26	0.05	0.16
10	4	11	7	1	0	23	0.18	0.31	0.06	0.16

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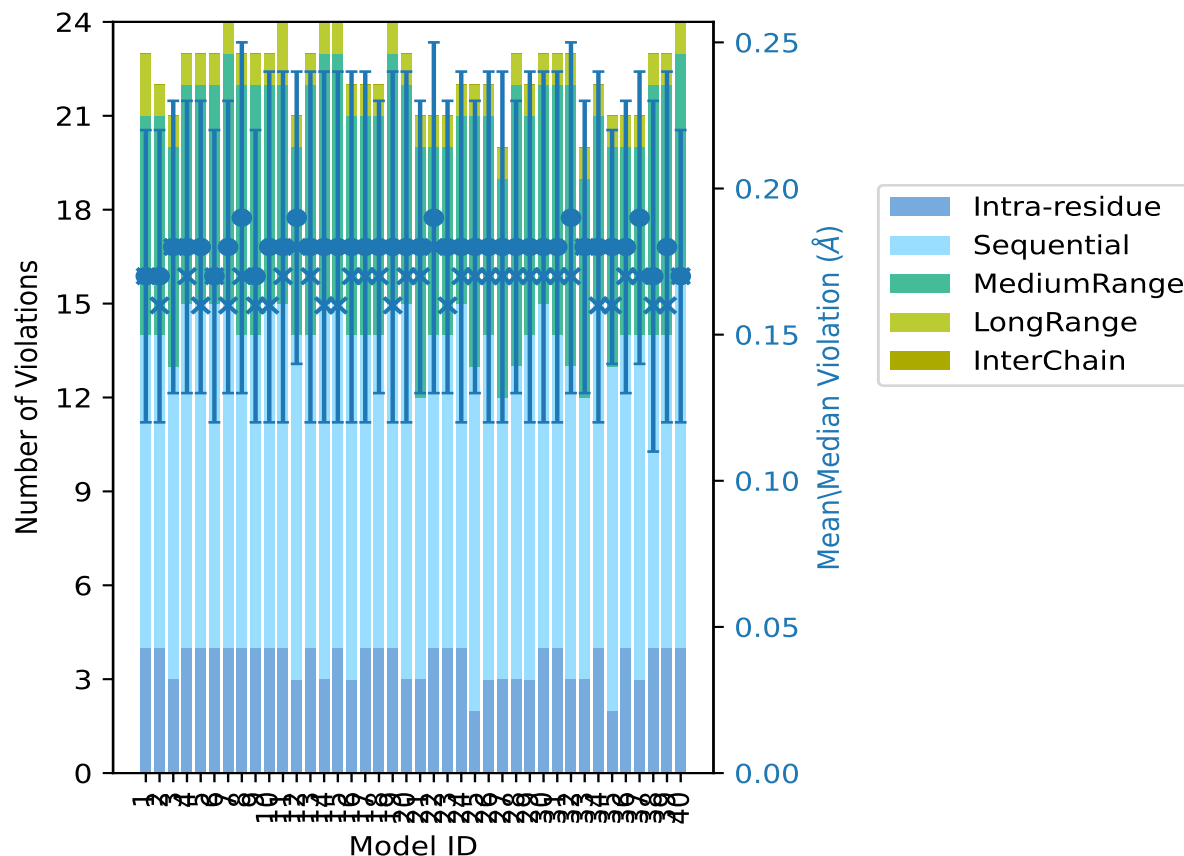
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	4	11	7	2	0	24	0.18	0.31	0.06	0.17
12	3	11	6	1	0	21	0.19	0.31	0.05	0.18
13	4	10	8	1	0	23	0.18	0.34	0.06	0.17
14	3	12	8	1	0	24	0.18	0.35	0.06	0.16
15	4	11	8	1	0	24	0.18	0.32	0.06	0.16
16	3	11	7	1	0	22	0.18	0.29	0.06	0.17
17	4	10	7	1	0	22	0.18	0.3	0.06	0.17
18	4	10	7	1	0	22	0.18	0.28	0.05	0.17
19	4	11	8	1	0	24	0.18	0.33	0.06	0.16
20	3	12	7	1	0	23	0.18	0.35	0.06	0.17
21	3	9	8	1	0	21	0.18	0.29	0.05	0.17
22	4	10	6	1	0	21	0.19	0.33	0.06	0.18
23	4	10	6	1	0	21	0.18	0.3	0.05	0.16
24	4	11	6	1	0	22	0.18	0.32	0.06	0.17
25	2	11	8	1	0	22	0.18	0.33	0.05	0.17
26	3	11	7	1	0	22	0.18	0.33	0.06	0.17
27	3	9	7	1	0	20	0.18	0.31	0.06	0.17
28	3	10	9	1	0	23	0.18	0.28	0.05	0.17
29	3	11	7	1	0	22	0.18	0.31	0.06	0.17
30	4	11	7	1	0	23	0.18	0.31	0.06	0.17
31	4	10	8	1	0	23	0.18	0.32	0.06	0.17
32	3	10	9	1	0	23	0.19	0.32	0.06	0.17
33	3	9	7	1	0	20	0.18	0.28	0.05	0.18
34	4	11	6	1	0	22	0.18	0.32	0.06	0.16
35	2	11	7	1	0	21	0.18	0.29	0.04	0.16
36	4	10	6	1	0	21	0.18	0.31	0.05	0.17
37	3	11	6	1	0	21	0.19	0.28	0.05	0.17
38	4	10	8	1	0	23	0.17	0.31	0.06	0.16
39	4	10	8	1	0	23	0.18	0.33	0.06	0.16
40	4	12	7	1	0	24	0.17	0.31	0.05	0.17

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

⁵Inter-chain restraints, ⁶Standard deviation

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



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

9.3 Distance violation statistics for the ensemble [i](#)

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1182(IR:377, SQ:298, MR:330, LR:177, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	1	0	0	0	1	1	2.5
0	0	0	1	0	1	2	5.0
0	0	0	0	0	0	3	7.5
0	0	0	0	0	0	4	10.0
0	1	0	0	0	1	5	12.5
0	0	0	0	0	0	6	15.0

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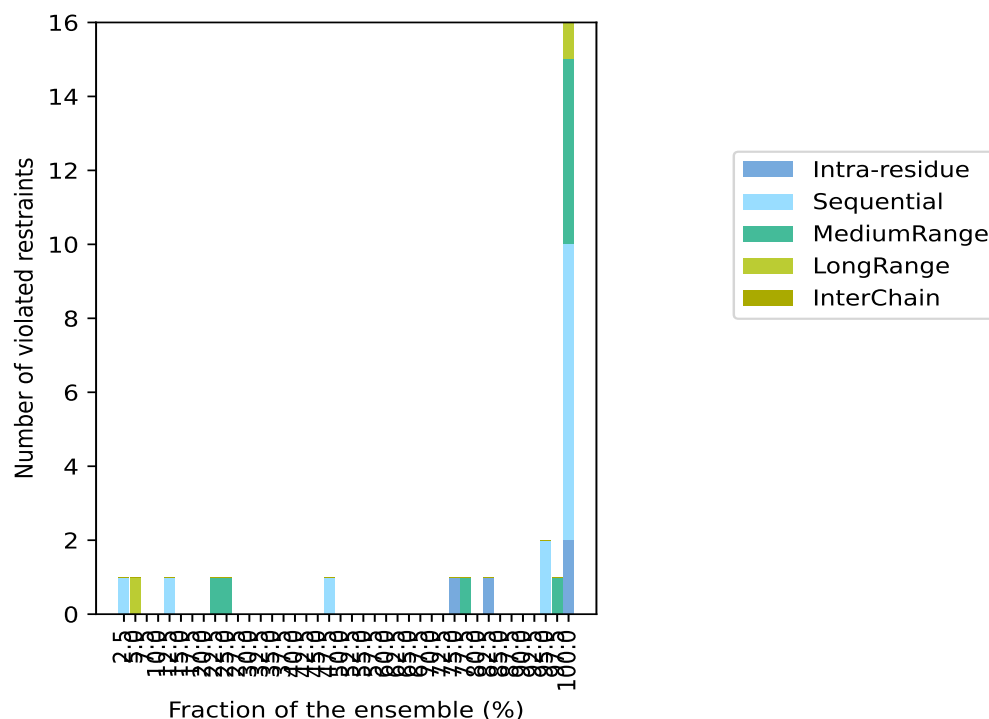
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	0	0	0	0	7	17.5
0	0	0	0	0	0	8	20.0
0	0	1	0	0	1	9	22.5
0	0	1	0	0	1	10	25.0
0	0	0	0	0	0	11	27.5
0	0	0	0	0	0	12	30.0
0	0	0	0	0	0	13	32.5
0	0	0	0	0	0	14	35.0
0	0	0	0	0	0	15	37.5
0	0	0	0	0	0	16	40.0
0	0	0	0	0	0	17	42.5
0	0	0	0	0	0	18	45.0
0	1	0	0	0	1	19	47.5
0	0	0	0	0	0	20	50.0
0	0	0	0	0	0	21	52.5
0	0	0	0	0	0	22	55.0
0	0	0	0	0	0	23	57.5
0	0	0	0	0	0	24	60.0
0	0	0	0	0	0	25	62.5
0	0	0	0	0	0	26	65.0
0	0	0	0	0	0	27	67.5
0	0	0	0	0	0	28	70.0
0	0	0	0	0	0	29	72.5
1	0	0	0	0	1	30	75.0
0	0	1	0	0	1	31	77.5
0	0	0	0	0	0	32	80.0
1	0	0	0	0	1	33	82.5
0	0	0	0	0	0	34	85.0
0	0	0	0	0	0	35	87.5
0	0	0	0	0	0	36	90.0
0	0	0	0	0	0	37	92.5
0	2	0	0	0	2	38	95.0
0	0	1	0	0	1	39	97.5
2	8	5	1	0	16	40	100.0

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

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

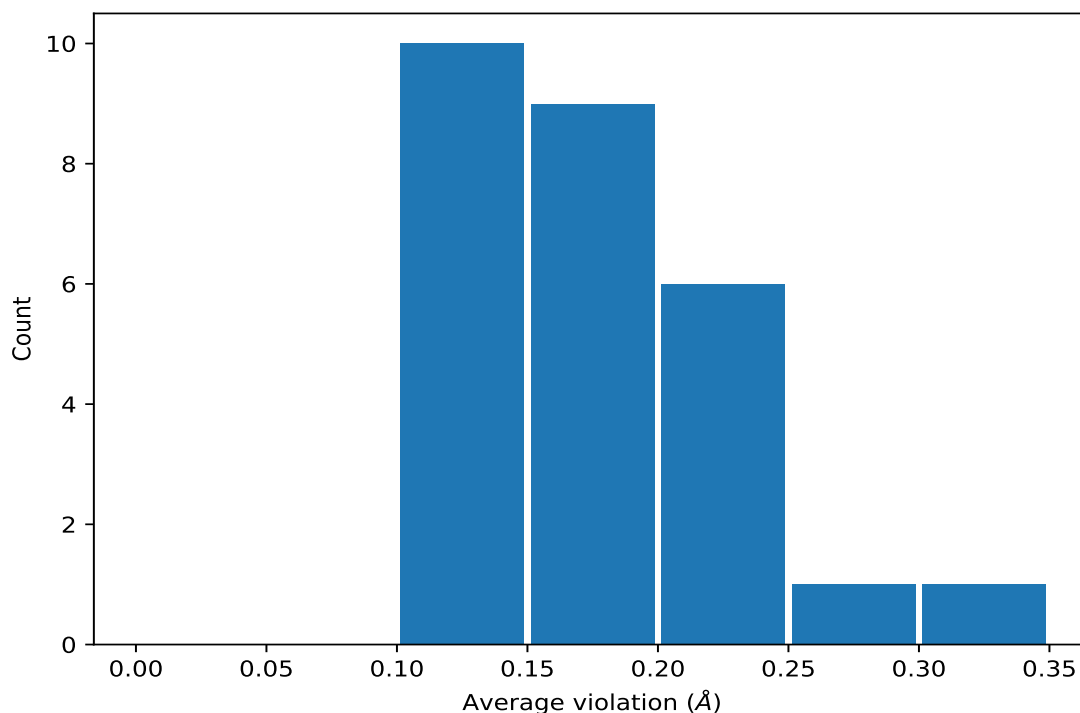
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	40	0.3	0.02	0.31
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	40	0.27	0.02	0.26
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	40	0.24	0.02	0.24
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	40	0.24	0.05	0.27
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	40	0.22	0.03	0.23
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	40	0.22	0.01	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	40	0.22	0.01	0.22
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	40	0.19	0.02	0.2
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	40	0.19	0.02	0.19
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	40	0.18	0.01	0.18
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	40	0.17	0.0	0.17
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	40	0.17	0.01	0.17
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	40	0.16	0.01	0.16
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	40	0.15	0.01	0.15
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	40	0.14	0.01	0.14
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	40	0.11	0.0	0.11

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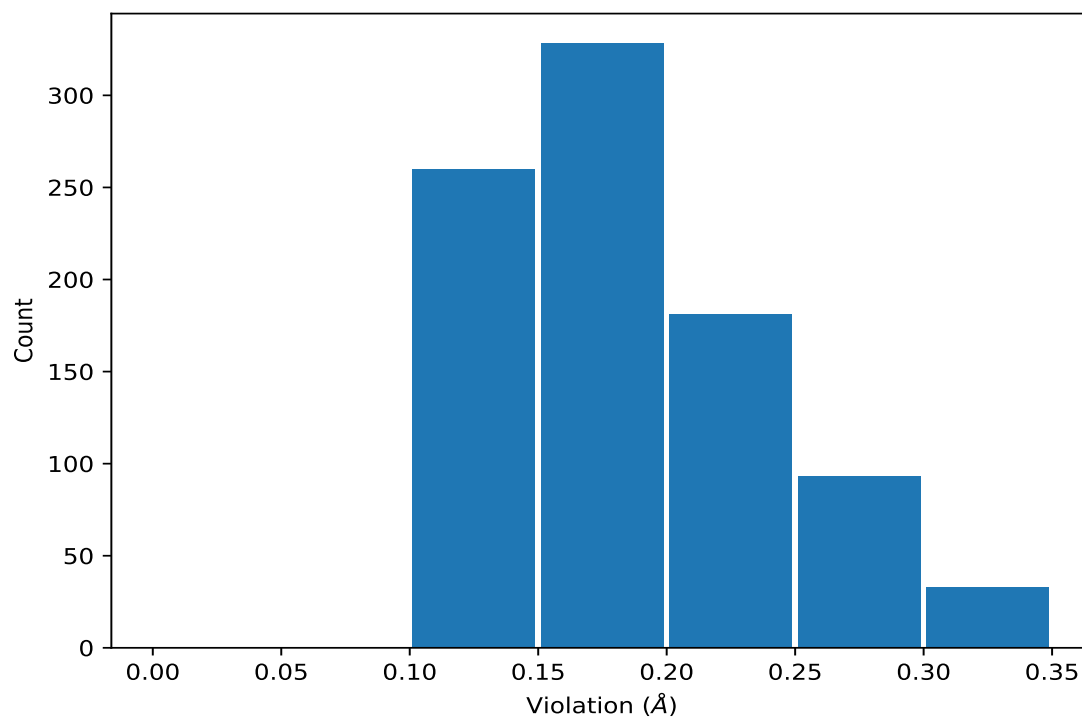
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	39	0.16	0.02	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	38	0.15	0.01	0.15
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	38	0.13	0.02	0.13
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	33	0.12	0.01	0.12
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	31	0.13	0.02	0.12
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	30	0.12	0.02	0.11
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	19	0.11	0.01	0.11
(1,22)	1:4:A:LYS:HB2	1:8:A:GLU:H	10	0.2	0.1	0.16
(1,915)	1:42:A:ALA:H	1:45:A:LEU:H	9	0.11	0.01	0.11
(1,100)	1:8:A:GLU:H	1:9:A:ARG:HA	5	0.12	0.01	0.11
(1,798)	1:34:A:LEU:HA	1:40:A:GLN:H	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	20	0.35
(1,22)	1:4:A:LYS:HB2	1:8:A:GLU:H	14	0.35
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	13	0.34
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	19	0.33
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	22	0.33
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	25	0.33
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	26	0.33
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	39	0.33
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	6	0.32
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	8	0.32
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	15	0.32
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	24	0.32
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	31	0.32
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	32	0.32
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	34	0.32
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	27	0.31
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	29	0.31
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	10	0.31
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	11	0.31
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	12	0.31
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	29	0.31
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	30	0.31
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	36	0.31
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	38	0.31
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	40	0.31
(1,22)	1:4:A:LYS:HB2	1:8:A:GLU:H	8	0.31
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	14	0.3
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	17	0.3
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	20	0.3
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	22	0.3
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	23	0.3
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	2	0.3
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	4	0.3
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	10	0.29
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	22	0.29
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	5	0.29
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	7	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	10	0.29
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	19	0.29
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	25	0.29
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	34	0.29
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	16	0.29
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	1	0.29
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	3	0.29
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	16	0.29
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	17	0.29
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	21	0.29
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	23	0.29
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	27	0.29
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	35	0.29
(1,22)	1:4:A:LYS:HB2	1:8:A:GLU:H	32	0.29
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	1	0.28
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	19	0.28
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	26	0.28
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	30	0.28
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	39	0.28
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	8	0.28
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	19	0.28
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	18	0.28
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	28	0.28
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	33	0.28
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	37	0.28
(1,22)	1:4:A:LYS:HB2	1:8:A:GLU:H	13	0.28
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	2	0.27
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	3	0.27
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	4	0.27
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	5	0.27
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	7	0.27
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	11	0.27
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	12	0.27
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	13	0.27
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	15	0.27
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	16	0.27
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	17	0.27
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	21	0.27
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	27	0.27
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	31	0.27
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	32	0.27
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	33	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	37	0.27
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	16	0.27
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	24	0.27
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	26	0.27
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	33	0.27
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	7	0.27
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	30	0.27
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	14	0.27
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	5	0.27
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	14	0.27
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	20	0.26
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	1	0.26
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	2	0.26
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	6	0.26
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	9	0.26
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	11	0.26
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	15	0.26
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	18	0.26
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	28	0.26
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	31	0.26
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	32	0.26
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	38	0.26
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	39	0.26
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	8	0.26
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	17	0.26
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	3	0.26
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	4	0.26
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	5	0.26
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	18	0.26
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	21	0.26
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	22	0.26
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	38	0.26
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	3	0.25
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	4	0.25
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	13	0.25
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	21	0.25
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	30	0.25
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	36	0.25
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	37	0.25
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	40	0.25
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	29	0.25
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	12	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	17	0.25
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	20	0.25
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	23	0.25
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	7	0.25
(1,38)	1:5:A:PHE:HB3	1:8:A:GLU:H	9	0.25
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	11	0.24
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	19	0.24
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	37	0.24
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	38	0.24
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	21	0.24
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	31	0.24
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	32	0.24
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	35	0.24
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	3	0.24
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	13	0.24
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	28	0.24
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	33	0.24
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	40	0.24
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	10	0.24
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	11	0.24
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	15	0.24
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	33	0.24
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	34	0.24
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	13	0.24
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	22	0.23
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	23	0.23
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	26	0.23
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	32	0.23
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	36	0.23
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	8	0.23
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	9	0.23
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	12	0.23
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	13	0.23
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	26	0.23
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	28	0.23
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	34	0.23
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	37	0.23
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	38	0.23
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	39	0.23
(1,583)	1:26:A:GLN:HB3	1:28:A:VAL:H	12	0.23
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	5	0.23
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	9	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	10	0.23
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	14	0.23
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	15	0.23
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	16	0.23
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	18	0.23
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	19	0.23
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	21	0.23
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	22	0.23
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	24	0.23
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	26	0.23
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	31	0.23
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	32	0.23
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	34	0.23
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	35	0.23
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	39	0.23
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	1	0.23
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	6	0.23
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	8	0.23
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	14	0.23
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	24	0.23
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	25	0.23
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	27	0.23
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	28	0.23
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	8	0.23
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	9	0.23
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	32	0.23
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	1	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	4	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	5	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	6	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	7	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	8	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	10	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	12	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	15	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	17	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	18	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	20	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	24	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	27	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	29	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	30	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	31	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	33	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	34	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	40	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	2	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	4	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	5	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	6	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	7	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	11	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	15	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	18	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	22	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	23	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	24	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	25	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	27	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	30	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	35	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	36	0.22
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	40	0.22
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	4	0.22
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	7	0.22
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	11	0.22
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	20	0.22
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	23	0.22
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	25	0.22
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	36	0.22
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	37	0.22
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	38	0.22
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	13	0.22
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	29	0.22
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	32	0.22
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	36	0.22
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	37	0.22
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	40	0.22
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	15	0.22
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	19	0.22
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	34	0.22
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	3	0.21
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	14	0.21
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	16	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	21	0.21
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	25	0.21
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	1	0.21
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	3	0.21
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	16	0.21
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	19	0.21
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	29	0.21
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	33	0.21
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	8	0.21
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	37	0.21
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	1	0.21
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	12	0.21
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	30	0.21
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	2	0.21
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	9	0.21
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	26	0.21
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	31	0.21
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	35	0.21
(1,519)	1:23:A:ASN:H	1:26:A:GLN:HA	39	0.21
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	4	0.21
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	6	0.21
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	12	0.21
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	22	0.21
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	28	0.21
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	31	0.21
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	33	0.21
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	35	0.21
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	38	0.21
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	39	0.21
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	28	0.21
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	29	0.21
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	37	0.21
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	2	0.2
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	9	0.2
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	13	0.2
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	28	0.2
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	35	0.2
(1,1132)	1:52:A:ASN:H	1:53:A:ASP:HA	39	0.2
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	10	0.2
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	17	0.2
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	9	0.2
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	26	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	6	0.2
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	20	0.2
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	1	0.2
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	11	0.2
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	13	0.2
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	16	0.2
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	21	0.2
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	26	0.2
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	27	0.2
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	32	0.2
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	37	0.2
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	18	0.2
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	20	0.2
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	21	0.2
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	25	0.2
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	30	0.2
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	35	0.2
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	40	0.2
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	6	0.19
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	4	0.19
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	11	0.19
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	4	0.19
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	14	0.19
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	15	0.19
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	16	0.19
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	19	0.19
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	5	0.19
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	7	0.19
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	8	0.19
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	14	0.19
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	23	0.19
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	1	0.19
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	2	0.19
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	6	0.19
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	10	0.19
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	11	0.19
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	24	0.19
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	27	0.19
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	36	0.19
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	38	0.19
(1,22)	1:4:A:LYS:HB2	1:8:A:GLU:H	28	0.19
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	20	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	6	0.18
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	11	0.18
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	12	0.18
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	17	0.18
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	22	0.18
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	24	0.18
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	25	0.18
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	36	0.18
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	40	0.18
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	18	0.18
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	23	0.18
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	24	0.18
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	38	0.18
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	3	0.18
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	12	0.18
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	28	0.18
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	36	0.18
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	40	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	1	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	2	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	3	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	5	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	6	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	8	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	10	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	12	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	13	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	17	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	18	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	21	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	22	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	23	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	24	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	25	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	28	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	29	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	30	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	33	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	34	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	36	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	38	0.18
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	40	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	2	0.18
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	3	0.18
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	9	0.18
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	17	0.18
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	24	0.18
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	25	0.18
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	29	0.18
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	3	0.18
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	7	0.18
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	19	0.18
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	22	0.18
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	33	0.18
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	34	0.18
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	39	0.18
(1,896)	1:41:A:SER:H	1:42:A:ALA:HA	14	0.17
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	1	0.17
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	4	0.17
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	7	0.17
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	15	0.17
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	16	0.17
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	18	0.17
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	19	0.17
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	20	0.17
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	28	0.17
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	29	0.17
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	30	0.17
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	31	0.17
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	32	0.17
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	33	0.17
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	35	0.17
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	8	0.17
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	14	0.17
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	25	0.17
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	29	0.17
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	34	0.17
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	36	0.17
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	40	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	1	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	2	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	3	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	4	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	6	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	7	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	8	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	9	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	10	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	11	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	12	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	13	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	14	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	15	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	16	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	17	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	18	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	19	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	20	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	21	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	22	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	26	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	27	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	29	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	30	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	31	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	32	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	33	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	36	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	37	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	39	0.17
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	40	0.17
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	2	0.17
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	15	0.17
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	20	0.17
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	27	0.17
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	30	0.17
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	12	0.17
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	25	0.17
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	30	0.17
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	34	0.17
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	37	0.17
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	16	0.17
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	28	0.17
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	40	0.17
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	9	0.17
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	11	0.17
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	26	0.17
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	27	0.17
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	31	0.17
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	32	0.17
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	35	0.17
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	37	0.17
(1,242)	1:14:A:GLY:H	1:15:A:GLU:HA	39	0.17
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	10	0.17
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	18	0.17
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	30	0.17
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	36	0.17
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	40	0.17
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	4	0.17
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	5	0.17
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	12	0.17
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	16	0.17
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	17	0.17
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	23	0.17
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	26	0.17
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	31	0.17
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	32	0.16
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	35	0.16
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	2	0.16
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	3	0.16
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	5	0.16
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	8	0.16
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	9	0.16
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	10	0.16
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	13	0.16
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	21	0.16
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	23	0.16
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	26	0.16
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	27	0.16
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	34	0.16
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	37	0.16
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	28	0.16
(1,821)	1:35:A:ARG:HB3	1:37:A:ASP:H	35	0.16
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	24	0.16
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	25	0.16
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	28	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	34	0.16
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	35	0.16
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	38	0.16
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	13	0.16
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	18	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	1	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	2	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	4	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	6	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	7	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	10	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	14	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	17	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	19	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	20	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	23	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	24	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	26	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	27	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	28	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	35	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	36	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	38	0.16
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	39	0.16
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	4	0.16
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	9	0.16
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	14	0.16
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	18	0.16
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	25	0.16
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	28	0.16
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	30	0.16
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	32	0.16
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	35	0.16
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	37	0.16
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	38	0.16
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	39	0.16
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	3	0.16
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	6	0.16
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	8	0.16
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	10	0.16
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	17	0.16
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	23	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	24	0.16
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	26	0.16
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	27	0.16
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	33	0.16
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	38	0.16
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	39	0.16
(1,125)	1:9:A:ARG:H	1:10:A:VAL:HA	20	0.16
(1,49)	1:5:A:PHE:HZ	1:35:A:ARG:HA	15	0.16
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	5	0.15
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	7	0.15
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	9	0.15
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	12	0.15
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	19	0.15
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	22	0.15
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	24	0.15
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	27	0.15
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	34	0.15
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	37	0.15
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	5	0.15
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	7	0.15
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	19	0.15
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	22	0.15
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	38	0.15
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	39	0.15
(1,816)	1:35:A:ARG:HA	1:35:A:ARG:H	23	0.15
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	1	0.15
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	5	0.15
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	6	0.15
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	7	0.15
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	9	0.15
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	17	0.15
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	19	0.15
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	23	0.15
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	31	0.15
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	32	0.15
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	39	0.15
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	5	0.15
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	8	0.15
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	9	0.15
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	11	0.15
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	13	0.15
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	16	0.15
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	18	0.15
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	21	0.15
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	22	0.15
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	31	0.15
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	32	0.15
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	40	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	5	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	6	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	7	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	10	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	11	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	12	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	13	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	15	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	17	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	19	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	21	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	22	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	23	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	24	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	26	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	31	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	36	0.15
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	40	0.15
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	2	0.15
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	39	0.15
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	4	0.15
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	8	0.15
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	12	0.15
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	16	0.15
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	19	0.15
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	33	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	3	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	4	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	7	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	9	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	11	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	15	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	18	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	19	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	21	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	22	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	28	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	29	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	31	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	32	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	34	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	35	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	36	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	37	0.15
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	40	0.15
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	2	0.14
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	25	0.14
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	30	0.14
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	10	0.14
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	17	0.14
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	23	0.14
(1,864)	1:39:A:SER:H	1:40:A:GLN:HA	14	0.14
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	10	0.14
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	14	0.14
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	21	0.14
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	33	0.14
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	3	0.14
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	29	0.14
(1,679)	1:29:A:ALA:H	1:30:A:PHE:HA	33	0.14
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	1	0.14
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	3	0.14
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	8	0.14
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	16	0.14
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	20	0.14
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	34	0.14
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	4	0.14
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	8	0.14
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	9	0.14
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	14	0.14
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	15	0.14
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	26	0.14
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	29	0.14
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	31	0.14
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	32	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	1	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	2	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	10	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	15	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	17	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	18	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	21	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	23	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	24	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	25	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	26	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	28	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	29	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	30	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	35	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	36	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	37	0.14
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	38	0.14
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	1	0.14
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	2	0.14
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	5	0.14
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	12	0.14
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	14	0.14
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	20	0.14
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	25	0.14
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	30	0.14
(1,100)	1:8:A:GLU:H	1:9:A:ARG:HA	14	0.14
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	33	0.13
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	17	0.13
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	18	0.13
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	26	0.13
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	36	0.13
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	40	0.13
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	8	0.13
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	27	0.13
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	12	0.13
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	20	0.13
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	25	0.13
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	35	0.13
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	37	0.13
(1,915)	1:42:A:ALA:H	1:45:A:LEU:H	21	0.13
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	16	0.13
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	22	0.13
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	25	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	29	0.13
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	34	0.13
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	35	0.13
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	29	0.13
(1,599)	1:26:A:GLN:H	1:27:A:VAL:HA	33	0.13
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	2	0.13
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	25	0.13
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	30	0.13
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	5	0.13
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	6	0.13
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	9	0.13
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	11	0.13
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	13	0.13
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	22	0.13
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	27	0.13
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	32	0.13
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	34	0.13
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	16	0.13
(1,22)	1:4:A:LYS:HB2	1:8:A:GLU:H	9	0.13
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	1	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	3	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	4	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	5	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	6	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	7	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	11	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	12	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	15	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	16	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	17	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	18	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	20	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	21	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	22	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	24	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	29	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	30	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	31	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	34	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	36	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	37	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	38	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	40	0.12
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	1	0.12
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	3	0.12
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	4	0.12
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	6	0.12
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	10	0.12
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	11	0.12
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	14	0.12
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	15	0.12
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	23	0.12
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	28	0.12
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	31	0.12
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	38	0.12
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	39	0.12
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	31	0.12
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	34	0.12
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	11	0.12
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	14	0.12
(1,915)	1:42:A:ALA:H	1:45:A:LEU:H	28	0.12
(1,915)	1:42:A:ALA:H	1:45:A:LEU:H	31	0.12
(1,915)	1:42:A:ALA:H	1:45:A:LEU:H	32	0.12
(1,767)	1:32:A:ASN:HA	1:35:A:ARG:H	38	0.12
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	27	0.12
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	27	0.12
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	3	0.12
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	6	0.12
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	10	0.12
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	19	0.12
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	20	0.12
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	35	0.12
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	38	0.12
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	14	0.12
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	20	0.12
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	31	0.12
(1,260)	1:15:A:GLU:H	1:16:A:ILE:HA	39	0.12
(1,151)	1:10:A:VAL:H	1:11:A:ILE:HA	13	0.12
(1,100)	1:8:A:GLU:H	1:9:A:ARG:HA	20	0.12
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	8	0.11
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	10	0.11
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	19	0.11
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	23	0.11
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	13	0.11
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	16	0.11
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	20	0.11
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	1	0.11
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	2	0.11
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	6	0.11
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	9	0.11
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	13	0.11
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	14	0.11
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	15	0.11
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	18	0.11
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	30	0.11
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	32	0.11
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	36	0.11
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	38	0.11
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	39	0.11
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	40	0.11
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	5	0.11
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	10	0.11
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	34	0.11
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	40	0.11
(1,915)	1:42:A:ALA:H	1:45:A:LEU:H	5	0.11
(1,915)	1:42:A:ALA:H	1:45:A:LEU:H	39	0.11
(1,798)	1:34:A:LEU:HA	1:40:A:GLN:H	1	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	1	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	3	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	4	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	5	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	6	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	7	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	8	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	9	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	10	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	11	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	12	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	13	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	14	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	15	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	16	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	17	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	18	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	21	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	22	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	23	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	24	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	25	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	26	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	28	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	29	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	30	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	31	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	32	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	33	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	34	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	35	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	36	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	37	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	38	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	39	0.11
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	40	0.11
(1,548)	1:25:A:LEU:HA	1:28:A:VAL:HA	2	0.11
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	1	0.11
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	11	0.11
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	13	0.11
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	17	0.11
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	18	0.11
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	40	0.11
(1,100)	1:8:A:GLU:H	1:9:A:ARG:HA	2	0.11
(1,100)	1:8:A:GLU:H	1:9:A:ARG:HA	30	0.11
(1,100)	1:8:A:GLU:H	1:9:A:ARG:HA	40	0.11
(1,22)	1:4:A:LYS:HB2	1:8:A:GLU:H	19	0.11
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	2	0.1
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	9	0.1
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	13	0.1
(1,1137)	1:53:A:ASP:HA	1:53:A:ASP:H	39	0.1
(1,1116)	1:51:A:LEU:H	1:52:A:ASN:HA	29	0.1
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	4	0.1
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	11	0.1
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	24	0.1
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	26	0.1
(1,1098)	1:51:A:LEU:HA	1:51:A:LEU:HG	28	0.1
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	4	0.1
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	6	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	7	0.1
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	15	0.1
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	16	0.1
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	19	0.1
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	24	0.1
(1,1023)	1:47:A:GLU:H	1:48:A:ALA:HA	26	0.1
(1,915)	1:42:A:ALA:H	1:45:A:LEU:H	7	0.1
(1,915)	1:42:A:ALA:H	1:45:A:LEU:H	15	0.1
(1,915)	1:42:A:ALA:H	1:45:A:LEU:H	38	0.1
(1,798)	1:34:A:LEU:HA	1:40:A:GLN:H	11	0.1
(1,576)	1:26:A:GLN:HA	1:26:A:GLN:H	19	0.1
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	7	0.1
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	27	0.1
(1,467)	1:22:A:LEU:HB3	1:26:A:GLN:HB3	33	0.1
(1,374)	1:18:A:ARG:H	1:19:A:LEU:HA	29	0.1
(1,22)	1:4:A:LYS:HB2	1:8:A:GLU:H	21	0.1
(1,22)	1:4:A:LYS:HB2	1:8:A:GLU:H	24	0.1
(1,22)	1:4:A:LYS:HB2	1:8:A:GLU:H	25	0.1

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

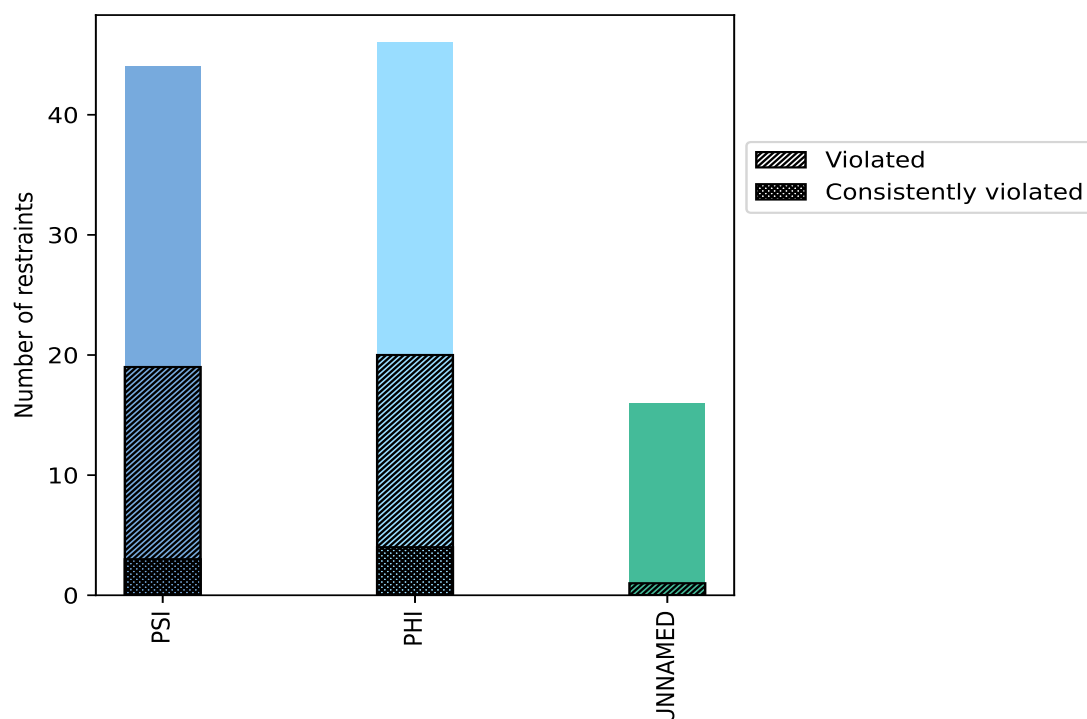
10.1 Summary of dihedral-angle violations [i](#)

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	44	41.5	19	43.2	17.9	3	6.8	2.8
PHI	46	43.4	20	43.5	18.9	4	8.7	3.8
UNNAMED	16	15.1	1	6.2	0.9	0	0.0	0.0
Total	106	100.0	40	37.7	37.7	7	6.6	6.6

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

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



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

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

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

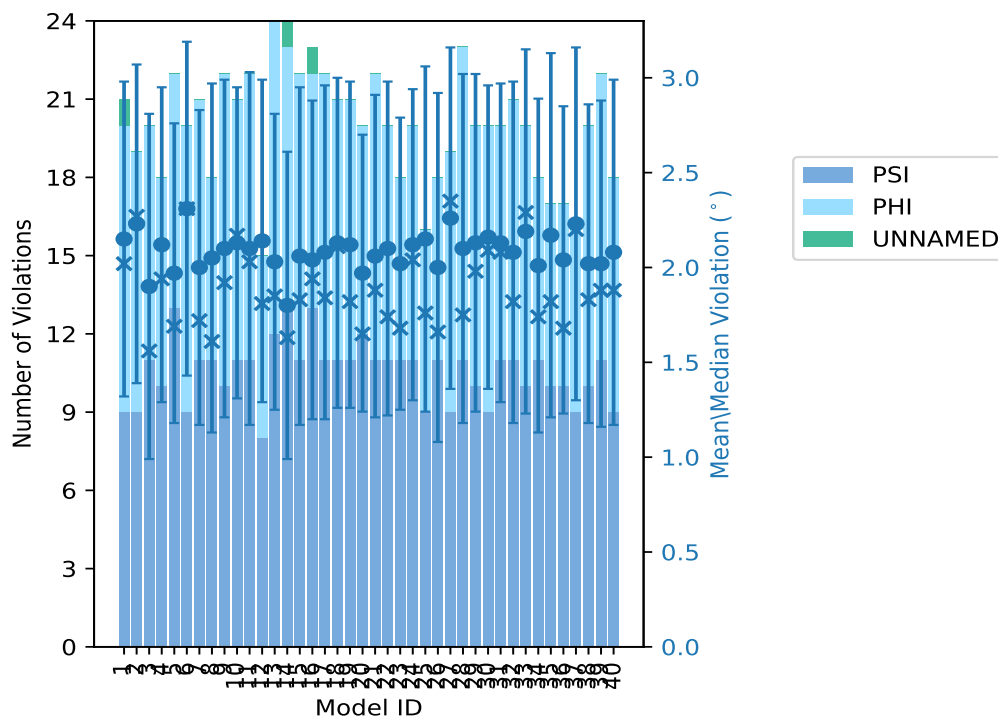
Model ID	Number of violations				Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	UNNAMED	Total				
1	9	11	1	21	2.15	4.25	0.83	2.02
2	9	10	0	19	2.23	4.36	0.84	2.27
3	11	9	0	20	1.9	4.76	0.91	1.56
4	10	8	0	18	2.12	4.53	0.83	1.94
5	13	9	0	22	1.97	4.23	0.79	1.69
6	9	11	0	20	2.31	4.28	0.88	2.31
7	11	10	0	21	2.0	4.15	0.83	1.72
8	11	7	0	18	2.05	4.45	0.92	1.61
9	10	12	0	22	2.1	4.45	0.89	1.92
10	11	10	0	21	2.13	4.13	0.82	2.17
11	11	11	0	22	2.1	4.42	0.93	2.03
12	8	7	0	15	2.14	4.44	0.85	1.81
13	12	12	0	24	2.03	4.41	0.78	1.85
14	13	10	1	24	1.8	4.03	0.81	1.63
15	11	11	0	22	2.06	4.82	0.89	1.83
16	13	9	1	23	2.04	4.86	0.84	1.94
17	11	11	0	22	2.08	4.66	0.88	1.84
18	11	10	0	21	2.13	4.4	0.87	2.11
19	11	10	0	21	2.12	4.42	0.86	1.82
20	12	8	0	20	1.97	4.21	0.73	1.65
21	11	11	0	22	2.06	4.66	0.85	1.88
22	11	9	0	20	2.1	4.27	0.88	1.74
23	11	7	0	18	2.02	3.95	0.77	1.68
24	11	9	0	20	2.12	4.39	0.82	2.04
25	9	7	0	16	2.15	4.03	0.91	1.76
26	11	7	0	18	2.0	4.22	0.92	1.66
27	9	10	0	19	2.26	4.42	0.9	2.35
28	11	12	0	23	2.1	4.61	0.92	1.75
29	10	10	0	20	2.13	4.66	0.89	1.98
30	9	11	0	20	2.16	4.25	0.8	2.09
31	11	9	0	20	2.13	4.37	0.84	2.08
32	11	10	0	21	2.08	4.56	0.9	1.82
33	10	10	0	20	2.19	4.7	0.96	2.29
34	11	7	0	18	2.01	4.21	0.88	1.74
35	10	7	0	17	2.17	4.21	0.96	1.82
36	10	7	0	17	2.04	4.01	0.81	1.68
37	9	7	0	16	2.23	4.17	0.93	2.2
38	10	10	0	20	2.02	4.22	0.84	1.83

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Model ID	Number of violations				Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	UNNAMED	Total				
39	11	11	0	22	2.02	4.43	0.86	1.88
40	9	9	0	18	2.08	4.65	0.91	1.88

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



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

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

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

Number of violated restraints				Fraction of the ensemble	
PSI	PHI	UNNAMED	Total	Count ¹	%
1	2	0	3	1	2.5
2	1	0	3	2	5.0
1	1	1	3	3	7.5
0	0	0	0	4	10.0

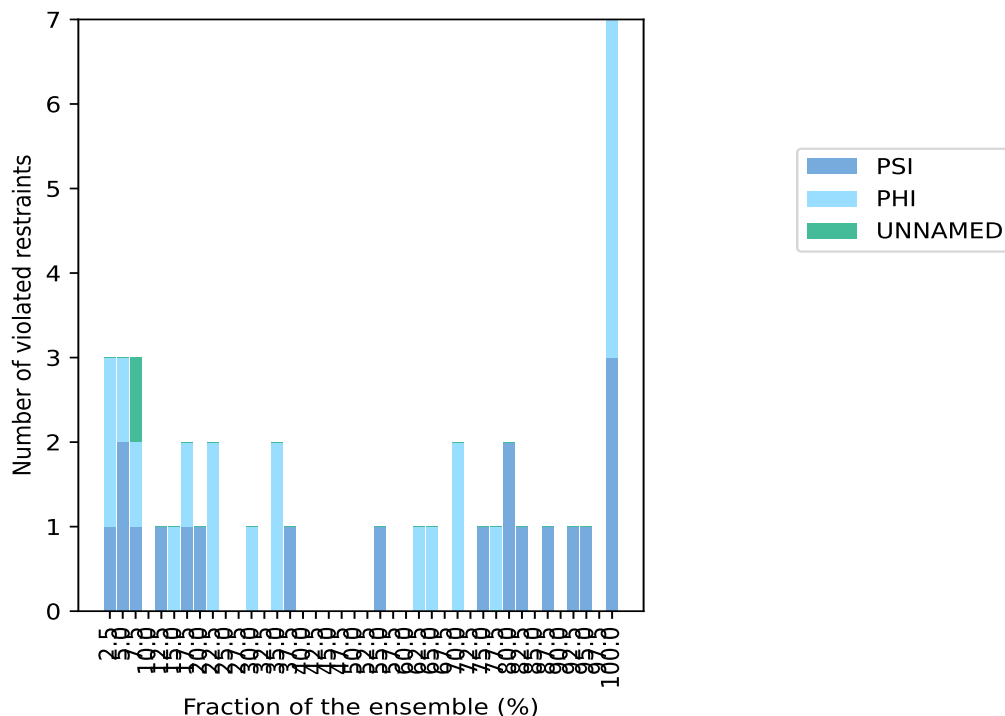
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Number of violated restraints				Fraction of the ensemble	
PSI	PHI	UNNAMED	Total	Count ¹	%
1	0	0	1	5	12.5
0	1	0	1	6	15.0
1	1	0	2	7	17.5
1	0	0	1	8	20.0
0	2	0	2	9	22.5
0	0	0	0	10	25.0
0	0	0	0	11	27.5
0	1	0	1	12	30.0
0	0	0	0	13	32.5
0	2	0	2	14	35.0
1	0	0	1	15	37.5
0	0	0	0	16	40.0
0	0	0	0	17	42.5
0	0	0	0	18	45.0
0	0	0	0	19	47.5
0	0	0	0	20	50.0
0	0	0	0	21	52.5
1	0	0	1	22	55.0
0	0	0	0	23	57.5
0	0	0	0	24	60.0
0	1	0	1	25	62.5
0	1	0	1	26	65.0
0	0	0	0	27	67.5
0	2	0	2	28	70.0
0	0	0	0	29	72.5
1	0	0	1	30	75.0
0	1	0	1	31	77.5
2	0	0	2	32	80.0
1	0	0	1	33	82.5
0	0	0	0	34	85.0
1	0	0	1	35	87.5
0	0	0	0	36	90.0
1	0	0	1	37	92.5
1	0	0	1	38	95.0
0	0	0	0	39	97.5
3	4	0	7	40	100.0

¹ Number of models with violations

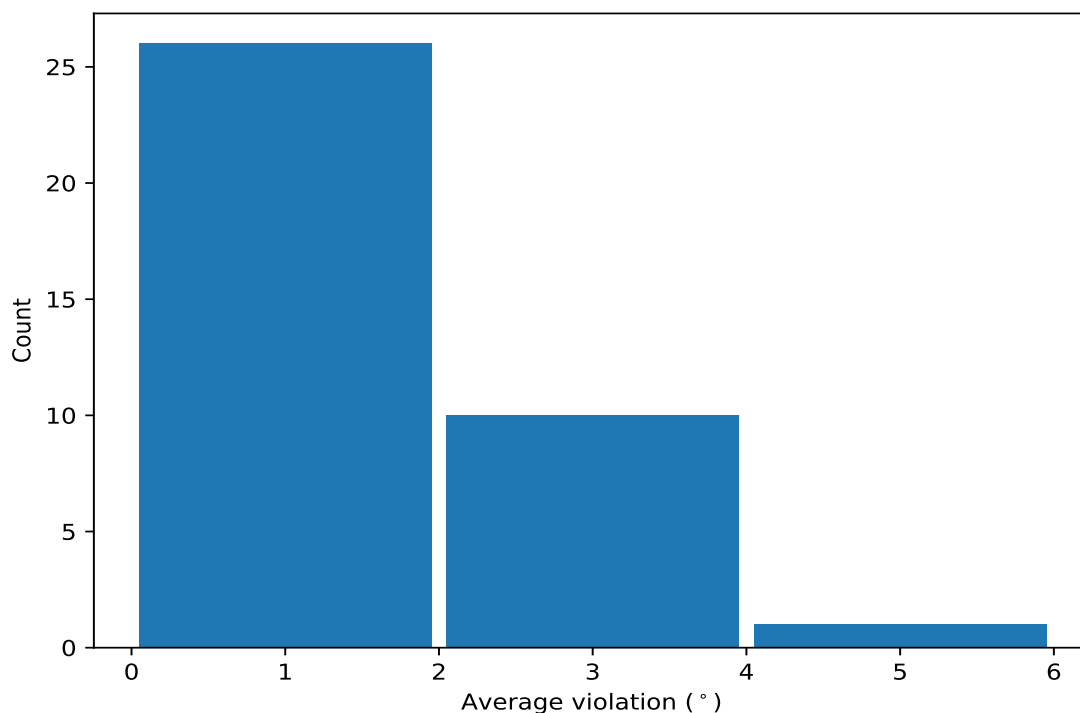
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	40	4.38	0.23	4.39
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	40	3.06	0.45	2.96
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	40	2.84	0.21	2.86
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	40	2.38	0.38	2.4
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	40	2.31	0.4	2.32
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	40	2.09	0.34	2.1
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	40	1.62	0.21	1.63
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	38	1.6	0.75	1.24
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	37	2.56	0.75	2.89
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	35	2.48	0.59	2.6
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	33	1.43	0.38	1.32
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	32	1.61	0.41	1.53
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	32	1.39	0.29	1.31
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	31	2.76	0.4	2.85
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	30	1.56	0.46	1.44
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	28	2.44	0.44	2.42
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	28	2.11	0.35	2.12
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	26	1.38	0.27	1.4
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	25	1.8	0.5	1.62
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	22	1.29	0.19	1.31
(1,88)	1:34:A:LEU:N	1:34:A:LEU:CA	1:34:A:LEU:C	1:35:A:ARG:N	15	1.34	0.23	1.32

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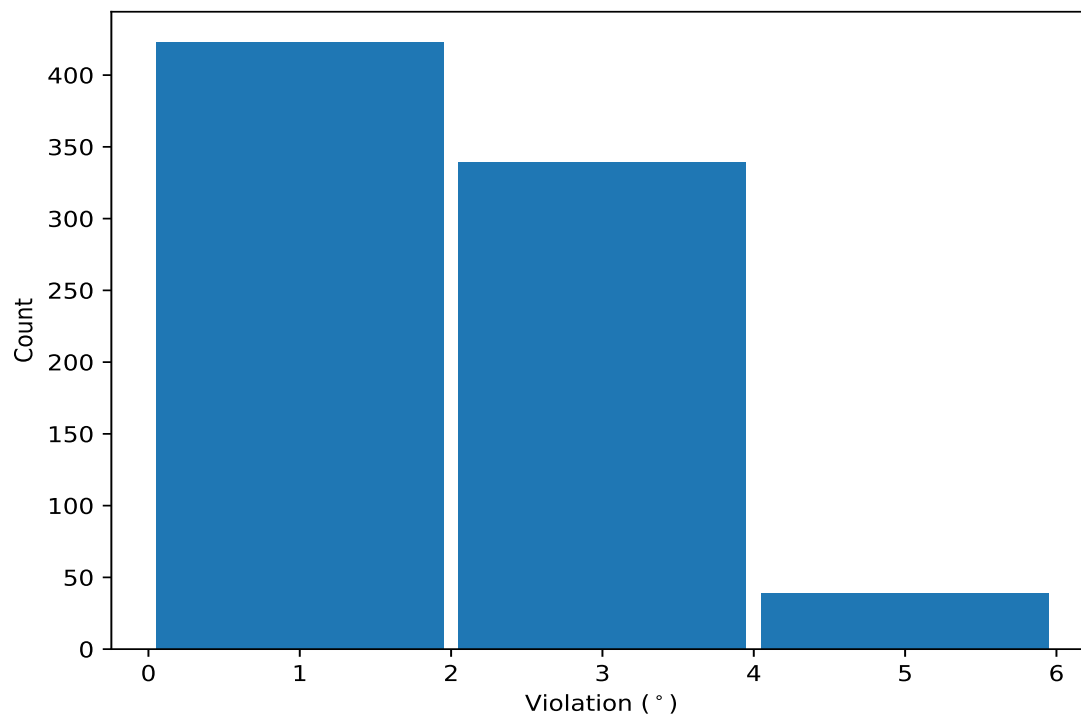
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,62)	1:53:A:ASP:C	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	14	1.61	0.21	1.65
(1,45)	1:34:A:LEU:C	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	14	1.31	0.17	1.33
(1,34)	1:23:A:ASN:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	12	1.15	0.14	1.11
(1,28)	1:12:A:ALA:C	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	9	1.48	0.27	1.42
(1,54)	1:45:A:LEU:C	1:46:A:ALA:N	1:46:A:ALA:CA	1:46:A:ALA:C	9	1.19	0.14	1.22
(1,70)	1:11:A:ILE:N	1:11:A:ILE:CA	1:11:A:ILE:C	1:12:A:ALA:N	8	1.42	0.36	1.2
(1,93)	1:41:A:SER:N	1:41:A:SER:CA	1:41:A:SER:C	1:42:A:ALA:N	7	1.21	0.09	1.25
(1,52)	1:43:A:ASN:C	1:44:A:LEU:N	1:44:A:LEU:CA	1:44:A:LEU:C	7	1.2	0.12	1.15
(1,21)	1:5:A:PHE:C	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	6	1.52	0.32	1.48
(1,104)	1:52:A:ASN:N	1:52:A:ASN:CA	1:52:A:ASN:C	1:53:A:ASP:N	5	1.23	0.32	1.11
(1,3)	1:8:A:GLU:HA	1:8:A:GLU:CA	1:8:A:GLU:CB	1:8:A:GLU:HB3	3	1.9	0.38	1.68
(1,64)	1:4:A:LYS:N	1:4:A:LYS:CA	1:4:A:LYS:C	1:5:A:PHE:N	3	1.45	0.23	1.31
(1,19)	1:4:A:LYS:C	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	3	1.31	0.27	1.27
(1,59)	1:50:A:LYS:C	1:51:A:LEU:N	1:51:A:LEU:CA	1:51:A:LEU:C	2	1.17	0.12	1.17
(1,101)	1:49:A:LYS:N	1:49:A:LYS:CA	1:49:A:LYS:C	1:50:A:LYS:N	2	1.06	0.03	1.06
(1,89)	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	1:36:A:ASP:N	2	1.02	0.01	1.02

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 (°)
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	16	4.86
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	15	4.82
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	3	4.76
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	33	4.7
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	17	4.66
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	21	4.66
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	29	4.66
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	40	4.65
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	28	4.61
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	32	4.56
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	4	4.53
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	8	4.45
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	9	4.45
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	12	4.44
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	39	4.43
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	11	4.42
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	19	4.42
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	27	4.42
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	13	4.41
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	18	4.4
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	24	4.39
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	31	4.37
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	2	4.36
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	6	4.28
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	22	4.27
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1	4.25
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	30	4.25
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	5	4.23
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	26	4.22
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	38	4.22
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	20	4.21
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	34	4.21
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	35	4.21
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	37	4.17
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	7	4.15
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	10	4.13
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	14	4.03
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	25	4.03
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	36	4.01
(1,38)	1:27:A:VAL:C	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	23	3.95
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	26	3.76
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	35	3.74
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	25	3.69
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	9	3.64
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	14	3.63
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	8	3.59
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	28	3.58

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	2	3.55
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	32	3.54
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	39	3.53
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	10	3.51
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	17	3.51
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	29	3.5
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	6	3.46
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	31	3.44
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	11	3.44
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	13	3.42
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	27	3.38
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	6	3.36
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	34	3.34
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	22	3.33
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	35	3.32
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	26	3.25
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	18	3.25
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	6	3.24
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	38	3.22
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	37	3.21
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	7	3.21
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	1	3.18
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	11	3.18
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	33	3.17
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	4	3.17
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	25	3.17
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	27	3.16
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	1	3.15
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	10	3.15
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	24	3.15
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	28	3.14
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	25	3.13
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	33	3.13
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	40	3.13
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	19	3.11
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	5	3.11
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	36	3.11
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	36	3.1
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	19	3.1
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	21	3.09
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	27	3.09
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	40	3.08
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	18	3.07
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	22	3.07
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	37	3.07
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	37	3.07
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	15	3.06
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	18	3.05
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	17	3.04
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	33	3.04
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	11	3.04

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	1	3.03
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	30	3.03
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	11	3.03
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	39	3.03
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	17	3.03
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	28	3.03
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	30	3.02
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	13	3.0
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	33	2.99
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	24	2.98
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	19	2.98
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	32	2.96
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	38	2.96
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	5	2.96
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	32	2.95
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	3	2.95
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	2	2.95
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	6	2.94
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	33	2.94
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	24	2.94
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	36	2.93
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	28	2.93
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	1	2.93
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	35	2.92
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	22	2.92
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	7	2.92
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	37	2.92
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	23	2.91
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	24	2.91
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	27	2.9
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	14	2.9
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	8	2.9
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	21	2.9
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	2	2.89
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	12	2.89
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	29	2.89
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	31	2.89
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	6	2.89
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	35	2.89
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	15	2.88
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	40	2.88
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	4	2.88
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	9	2.87
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	7	2.87
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	37	2.87
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	30	2.86
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	15	2.86
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	9	2.85
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	14	2.85
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	32	2.85
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	34	2.85

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	6	2.84
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	29	2.83
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	18	2.83
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	9	2.83
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	9	2.82
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	25	2.82
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	38	2.82
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	19	2.82
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	33	2.82
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	27	2.82
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	37	2.81
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	16	2.81
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	12	2.8
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	28	2.8
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	8	2.79
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	34	2.78
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	1	2.78
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	5	2.78
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	12	2.78
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	15	2.77
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	22	2.77
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	16	2.77
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	35	2.77
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	39	2.77
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	23	2.76
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	29	2.75
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	12	2.75
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	23	2.75
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	38	2.74
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	39	2.74
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	31	2.74
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	8	2.73
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	17	2.73
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	22	2.73
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	31	2.72
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	9	2.72
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	21	2.72
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	23	2.72
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	2	2.72
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	10	2.72
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	7	2.71
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	17	2.71
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	15	2.7
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	18	2.69
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	30	2.69
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	40	2.69
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	23	2.68
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	28	2.68
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	30	2.68
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	13	2.68
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	1	2.67

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	4	2.66
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	19	2.66
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	13	2.66
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	27	2.66
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	4	2.66
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	16	2.65
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	31	2.65
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	11	2.64
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	15	2.64
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	3	2.64
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	22	2.64
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	36	2.64
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	30	2.63
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	20	2.63
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	7	2.63
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	16	2.63
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	29	2.63
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	10	2.62
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	11	2.62
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	2	2.62
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	34	2.61
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	11	2.61
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	21	2.61
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	32	2.61
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	9	2.61
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	21	2.6
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	24	2.6
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	20	2.6
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	10	2.59
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	7	2.58
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	38	2.57
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	33	2.57
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	18	2.57
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	3	2.57
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	22	2.56
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	16	2.56
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	3	2.56
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	19	2.56
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	19	2.56
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	19	2.56
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	26	2.56
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	28	2.56
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	3	2.55
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	34	2.55
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	5	2.53
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	14	2.53
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	16	2.53
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	18	2.53
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	20	2.53
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1	2.53
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	10	2.53

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	6	2.52
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	39	2.51
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	21	2.51
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	23	2.5
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	27	2.49
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	28	2.49
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	5	2.48
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	30	2.48
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	8	2.48
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	20	2.46
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	13	2.46
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	11	2.46
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	8	2.45
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	16	2.44
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	34	2.44
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	20	2.44
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	13	2.43
(1,3)	1:8:A:GLU:HA	1:8:A:GLU:CA	1:8:A:GLU:CB	1:8:A:GLU:HB3	16	2.43
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	4	2.42
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	35	2.42
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	3	2.41
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	32	2.41
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	31	2.41
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	26	2.41
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	21	2.4
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	33	2.4
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	10	2.39
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	20	2.39
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	40	2.39
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	18	2.39
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	27	2.39
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	32	2.38
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	6	2.38
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	31	2.38
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	10	2.38
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	5	2.38
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	2	2.38
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	25	2.38
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	4	2.37
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	30	2.37
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	36	2.35
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	27	2.35
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	29	2.34
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	18	2.34
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	21	2.34
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	31	2.33
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	26	2.33
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	15	2.33
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	2	2.32
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	19	2.32
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	32	2.32

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	6	2.31
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	16	2.31
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	6	2.31
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	17	2.31
(1,106)	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	1:55:A:GLN:N	21	2.3
(1,82)	1:28:A:VAL:N	1:28:A:VAL:CA	1:28:A:VAL:C	1:29:A:ALA:N	33	2.3
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	13	2.3
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	27	2.3
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	38	2.29
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	2	2.29
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	20	2.29
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	37	2.29
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	39	2.28
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	10	2.28
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	9	2.28
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	33	2.28
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	2	2.27
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	29	2.27
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	13	2.26
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	26	2.26
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	6	2.26
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	11	2.26
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	9	2.26
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	15	2.26
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	22	2.24
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	12	2.23
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	24	2.23
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	29	2.23
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	24	2.22
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	38	2.22
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	5	2.21
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	39	2.2
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	17	2.19
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	15	2.19
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	10	2.17
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	30	2.16
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	7	2.15
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	11	2.15
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	40	2.15
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	7	2.14
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	24	2.14
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	17	2.13
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	35	2.13
(1,21)	1:5:A:PHE:C	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	28	2.12
(1,70)	1:11:A:ILE:N	1:11:A:ILE:CA	1:11:A:ILE:C	1:12:A:ALA:N	5	2.11
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	37	2.11
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	18	2.11
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	29	2.1
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	31	2.1
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	2	2.1
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	20	2.09

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	12	2.09
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	16	2.08
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	24	2.08
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	1	2.08
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	7	2.08
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	17	2.08
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	10	2.08
(1,28)	1:12:A:ALA:C	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	4	2.08
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	31	2.07
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	38	2.07
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	28	2.06
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	13	2.06
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	2	2.04
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	14	2.04
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	39	2.04
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	30	2.03
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	39	2.03
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	30	2.03
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	6	2.02
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	40	2.02
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	1	2.02
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	32	2.02
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	1	2.02
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	24	2.0
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	9	2.0
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	6	1.98
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	21	1.98
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	14	1.97
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	24	1.97
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	5	1.96
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	15	1.96
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	17	1.96
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	4	1.95
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	10	1.94
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	39	1.94
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	16	1.94
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	4	1.94
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	31	1.93
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	36	1.93
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	2	1.92
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	40	1.92
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	34	1.92
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	13	1.91
(1,62)	1:53:A:ASP:C	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	2	1.91
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	11	1.91
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	3	1.91
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	13	1.9
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	16	1.87
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	29	1.87
(1,104)	1:52:A:ASN:N	1:52:A:ASN:CA	1:52:A:ASN:C	1:53:A:ASP:N	27	1.86
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	38	1.86

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	14	1.85
(1,70)	1:11:A:ILE:N	1:11:A:ILE:CA	1:11:A:ILE:C	1:12:A:ALA:N	4	1.83
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	39	1.83
(1,62)	1:53:A:ASP:C	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	9	1.83
(1,62)	1:53:A:ASP:C	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	39	1.83
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	40	1.83
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	1	1.82
(1,62)	1:53:A:ASP:C	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	32	1.82
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	35	1.82
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	29	1.82
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	19	1.82
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	25	1.81
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	12	1.81
(1,88)	1:34:A:LEU:N	1:34:A:LEU:CA	1:34:A:LEU:C	1:35:A:ARG:N	13	1.8
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	38	1.8
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	12	1.79
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	27	1.79
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	22	1.79
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	14	1.78
(1,64)	1:4:A:LYS:N	1:4:A:LYS:CA	1:4:A:LYS:C	1:5:A:PHE:N	21	1.78
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	19	1.77
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	36	1.77
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	25	1.77
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	23	1.77
(1,28)	1:12:A:ALA:C	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	40	1.77
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	3	1.76
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	34	1.76
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	12	1.75
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	28	1.75
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	38	1.74
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	25	1.74
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	25	1.73
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	21	1.73
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	39	1.73
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	23	1.72
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	6	1.72
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	7	1.72
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	29	1.71
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	17	1.71
(1,62)	1:53:A:ASP:C	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	26	1.71
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	29	1.71
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	34	1.71
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	15	1.7
(1,62)	1:53:A:ASP:C	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	25	1.7
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	5	1.69
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	32	1.69
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	8	1.69
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	18	1.69
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	5	1.69
(1,21)	1:5:A:PHE:C	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	30	1.69
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	11	1.68

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	22	1.68
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	26	1.68
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	36	1.68
(1,3)	1:8:A:GLU:HA	1:8:A:GLU:CA	1:8:A:GLU:CB	1:8:A:GLU:HB3	14	1.68
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	1	1.67
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	22	1.67
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	14	1.67
(1,62)	1:53:A:ASP:C	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	28	1.66
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	15	1.66
(1,51)	1:42:A:ALA:C	1:43:A:ASN:N	1:43:A:ASN:CA	1:43:A:ASN:C	20	1.66
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	8	1.66
(1,19)	1:4:A:LYS:C	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	21	1.66
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	10	1.65
(1,62)	1:53:A:ASP:C	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	14	1.65
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	38	1.65
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	20	1.65
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	26	1.65
(1,88)	1:34:A:LEU:N	1:34:A:LEU:CA	1:34:A:LEU:C	1:35:A:ARG:N	16	1.64
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	5	1.64
(1,70)	1:11:A:ILE:N	1:11:A:ILE:CA	1:11:A:ILE:C	1:12:A:ALA:N	20	1.64
(1,62)	1:53:A:ASP:C	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	35	1.64
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	23	1.64
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	29	1.64
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	34	1.64
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	19	1.64
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	36	1.64
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	17	1.63
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	1	1.63
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	7	1.63
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	4	1.63
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	1	1.63
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	5	1.63
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	17	1.62
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	22	1.62
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	24	1.62
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	12	1.61
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	14	1.61
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	5	1.61
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	24	1.61
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	25	1.61
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	26	1.6
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	30	1.6
(1,45)	1:34:A:LEU:C	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	13	1.6
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	22	1.6
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	32	1.6
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	37	1.6
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	20	1.59
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	40	1.58
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	24	1.58
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	36	1.58
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	9	1.58

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,3)	1:8:A:GLU:HA	1:8:A:GLU:CA	1:8:A:GLU:CB	1:8:A:GLU:HB3	1	1.58
(1,88)	1:34:A:LEU:N	1:34:A:LEU:CA	1:34:A:LEU:C	1:35:A:ARG:N	32	1.57
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	31	1.57
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	3	1.57
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	13	1.57
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	31	1.57
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	35	1.57
(1,21)	1:5:A:PHE:C	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	9	1.57
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	8	1.56
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	25	1.56
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	13	1.56
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	3	1.56
(1,45)	1:34:A:LEU:C	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	16	1.55
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	28	1.54
(1,68)	1:9:A:ARG:N	1:9:A:ARG:CA	1:9:A:ARG:C	1:10:A:VAL:N	20	1.54
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	18	1.54
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	4	1.54
(1,88)	1:34:A:LEU:N	1:34:A:LEU:CA	1:34:A:LEU:C	1:35:A:ARG:N	15	1.53
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	8	1.52
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	33	1.52
(1,62)	1:53:A:ASP:C	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	13	1.52
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	18	1.52
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	26	1.51
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	36	1.51
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	37	1.51
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	2	1.51
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	23	1.5
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	35	1.5
(1,28)	1:12:A:ALA:C	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	3	1.5
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	4	1.49
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	11	1.49
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	16	1.49
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	28	1.49
(1,88)	1:34:A:LEU:N	1:34:A:LEU:CA	1:34:A:LEU:C	1:35:A:ARG:N	39	1.48
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	7	1.48
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	40	1.48
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	33	1.48
(1,62)	1:53:A:ASP:C	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	31	1.48
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	17	1.47
(1,45)	1:34:A:LEU:C	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	7	1.47
(1,41)	1:30:A:PHE:C	1:31:A:ILE:N	1:31:A:ILE:CA	1:31:A:ILE:C	33	1.47
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	11	1.47
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	1	1.46
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	18	1.46
(1,28)	1:12:A:ALA:C	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	17	1.46
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	8	1.45
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	12	1.45
(1,45)	1:34:A:LEU:C	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	32	1.45
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	14	1.44
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	19	1.44
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	15	1.44

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	13	1.44
(1,88)	1:34:A:LEU:N	1:34:A:LEU:CA	1:34:A:LEU:C	1:35:A:ARG:N	7	1.43
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	34	1.43
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	4	1.43
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	30	1.43
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	3	1.42
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	23	1.42
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	20	1.42
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	23	1.42
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	8	1.42
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	17	1.42
(1,45)	1:34:A:LEU:C	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	15	1.42
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	20	1.42
(1,28)	1:12:A:ALA:C	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	28	1.42
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	8	1.41
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	23	1.41
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	12	1.41
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	38	1.41
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	37	1.41
(1,52)	1:43:A:ASN:C	1:44:A:LEU:N	1:44:A:LEU:CA	1:44:A:LEU:C	8	1.41
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	22	1.4
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	20	1.4
(1,34)	1:23:A:ASN:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	10	1.4
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	40	1.39
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	4	1.39
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	35	1.39
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	16	1.39
(1,34)	1:23:A:ASN:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	27	1.39
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	5	1.38
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	28	1.38
(1,54)	1:45:A:LEU:C	1:46:A:ALA:N	1:46:A:ALA:CA	1:46:A:ALA:C	13	1.38
(1,21)	1:5:A:PHE:C	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	21	1.38
(1,88)	1:34:A:LEU:N	1:34:A:LEU:CA	1:34:A:LEU:C	1:35:A:ARG:N	19	1.37
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	13	1.37
(1,62)	1:53:A:ASP:C	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	17	1.37
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	7	1.37
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	26	1.36
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	14	1.36
(1,60)	1:51:A:LEU:C	1:52:A:ASN:N	1:52:A:ASN:CA	1:52:A:ASN:C	33	1.36
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	34	1.36
(1,54)	1:45:A:LEU:C	1:46:A:ALA:N	1:46:A:ALA:CA	1:46:A:ALA:C	28	1.36
(1,52)	1:43:A:ASN:C	1:44:A:LEU:N	1:44:A:LEU:CA	1:44:A:LEU:C	23	1.35
(1,45)	1:34:A:LEU:C	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	30	1.35
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	34	1.34
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	9	1.34
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	36	1.34
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	18	1.34
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	36	1.34
(1,54)	1:45:A:LEU:C	1:46:A:ALA:N	1:46:A:ALA:CA	1:46:A:ALA:C	17	1.34
(1,37)	1:26:A:GLN:C	1:27:A:VAL:N	1:27:A:VAL:CA	1:27:A:VAL:C	23	1.34
(1,28)	1:12:A:ALA:C	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	15	1.34

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	10	1.33
(1,45)	1:34:A:LEU:C	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	39	1.33
(1,31)	1:15:A:GLU:C	1:16:A:ILE:N	1:16:A:ILE:CA	1:16:A:ILE:C	14	1.33
(1,93)	1:41:A:SER:N	1:41:A:SER:CA	1:41:A:SER:C	1:42:A:ALA:N	13	1.32
(1,88)	1:34:A:LEU:N	1:34:A:LEU:CA	1:34:A:LEU:C	1:35:A:ARG:N	21	1.32
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	38	1.32
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	30	1.32
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	36	1.32
(1,45)	1:34:A:LEU:C	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	21	1.32
(1,88)	1:34:A:LEU:N	1:34:A:LEU:CA	1:34:A:LEU:C	1:35:A:ARG:N	5	1.31
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	6	1.31
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	24	1.31
(1,64)	1:4:A:LYS:N	1:4:A:LYS:CA	1:4:A:LYS:C	1:5:A:PHE:N	9	1.31
(1,45)	1:34:A:LEU:C	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	28	1.31
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	11	1.3
(1,62)	1:53:A:ASP:C	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	27	1.3
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	19	1.3
(1,97)	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	1:46:A:ALA:N	36	1.29
(1,93)	1:41:A:SER:N	1:41:A:SER:CA	1:41:A:SER:C	1:42:A:ALA:N	7	1.29
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	15	1.29
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	24	1.29
(1,59)	1:50:A:LYS:C	1:51:A:LEU:N	1:51:A:LEU:CA	1:51:A:LEU:C	20	1.29
(1,50)	1:41:A:SER:C	1:42:A:ALA:N	1:42:A:ALA:CA	1:42:A:ALA:C	9	1.29
(1,28)	1:12:A:ALA:C	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	16	1.29
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	10	1.28
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	18	1.28
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	39	1.28
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	14	1.28
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	22	1.28
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	19	1.28
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	33	1.28
(1,34)	1:23:A:ASN:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	31	1.28
(1,93)	1:41:A:SER:N	1:41:A:SER:CA	1:41:A:SER:C	1:42:A:ALA:N	21	1.27
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	32	1.27
(1,64)	1:4:A:LYS:N	1:4:A:LYS:CA	1:4:A:LYS:C	1:5:A:PHE:N	15	1.27
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	16	1.27
(1,28)	1:12:A:ALA:C	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	19	1.27
(1,19)	1:4:A:LYS:C	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	9	1.27
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	23	1.26
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	28	1.26
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	9	1.26
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	13	1.26
(1,93)	1:41:A:SER:N	1:41:A:SER:CA	1:41:A:SER:C	1:42:A:ALA:N	32	1.25
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	21	1.25
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	29	1.24
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	1	1.24
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	26	1.24
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	26	1.24
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	29	1.24
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	30	1.24
(1,34)	1:23:A:ASN:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	2	1.24

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,21)	1:5:A:PHE:C	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	40	1.24
(1,88)	1:34:A:LEU:N	1:34:A:LEU:CA	1:34:A:LEU:C	1:35:A:ARG:N	31	1.23
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	19	1.23
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	27	1.23
(1,54)	1:45:A:LEU:C	1:46:A:ALA:N	1:46:A:ALA:CA	1:46:A:ALA:C	18	1.23
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	37	1.22
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	32	1.22
(1,54)	1:45:A:LEU:C	1:46:A:ALA:N	1:46:A:ALA:CA	1:46:A:ALA:C	1	1.22
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	30	1.21
(1,70)	1:11:A:ILE:N	1:11:A:ILE:CA	1:11:A:ILE:C	1:12:A:ALA:N	8	1.21
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	22	1.21
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	3	1.2
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	23	1.2
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	24	1.2
(1,70)	1:11:A:ILE:N	1:11:A:ILE:CA	1:11:A:ILE:C	1:12:A:ALA:N	35	1.2
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	3	1.2
(1,45)	1:34:A:LEU:C	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	19	1.2
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	6	1.2
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	10	1.2
(1,39)	1:28:A:VAL:C	1:29:A:ALA:N	1:29:A:ALA:CA	1:29:A:ALA:C	21	1.2
(1,88)	1:34:A:LEU:N	1:34:A:LEU:CA	1:34:A:LEU:C	1:35:A:ARG:N	11	1.19
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	33	1.19
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	37	1.19
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	9	1.19
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	21	1.19
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	5	1.19
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	38	1.19
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	39	1.19
(1,28)	1:12:A:ALA:C	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	12	1.19
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	27	1.18
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	35	1.18
(1,62)	1:53:A:ASP:C	1:54:A:ALA:N	1:54:A:ALA:CA	1:54:A:ALA:C	10	1.18
(1,88)	1:34:A:LEU:N	1:34:A:LEU:CA	1:34:A:LEU:C	1:35:A:ARG:N	18	1.17
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	31	1.17
(1,70)	1:11:A:ILE:N	1:11:A:ILE:CA	1:11:A:ILE:C	1:12:A:ALA:N	13	1.17
(1,52)	1:43:A:ASN:C	1:44:A:LEU:N	1:44:A:LEU:CA	1:44:A:LEU:C	3	1.17
(1,34)	1:23:A:ASN:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	17	1.17
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	29	1.16
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	16	1.15
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	16	1.15
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	24	1.15
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	2	1.15
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	9	1.15
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	32	1.15
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	37	1.15
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	40	1.15
(1,52)	1:43:A:ASN:C	1:44:A:LEU:N	1:44:A:LEU:CA	1:44:A:LEU:C	4	1.15
(1,45)	1:34:A:LEU:C	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	10	1.15
(1,34)	1:23:A:ASN:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	13	1.15
(1,21)	1:5:A:PHE:C	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	27	1.15
(1,93)	1:41:A:SER:N	1:41:A:SER:CA	1:41:A:SER:C	1:42:A:ALA:N	5	1.14

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	39	1.14
(1,54)	1:45:A:LEU:C	1:46:A:ALA:N	1:46:A:ALA:CA	1:46:A:ALA:C	6	1.14
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	15	1.13
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	1	1.13
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	34	1.13
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	39	1.13
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	7	1.13
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	17	1.13
(1,52)	1:43:A:ASN:C	1:44:A:LEU:N	1:44:A:LEU:CA	1:44:A:LEU:C	14	1.13
(1,104)	1:52:A:ASN:N	1:52:A:ASN:CA	1:52:A:ASN:C	1:53:A:ASP:N	25	1.12
(1,70)	1:11:A:ILE:N	1:11:A:ILE:CA	1:11:A:ILE:C	1:12:A:ALA:N	34	1.12
(1,104)	1:52:A:ASN:N	1:52:A:ASN:CA	1:52:A:ASN:C	1:53:A:ASP:N	14	1.11
(1,93)	1:41:A:SER:N	1:41:A:SER:CA	1:41:A:SER:C	1:42:A:ALA:N	31	1.11
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	18	1.11
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	38	1.11
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	16	1.11
(1,61)	1:52:A:ASN:C	1:53:A:ASP:N	1:53:A:ASP:CA	1:53:A:ASP:C	11	1.11
(1,52)	1:43:A:ASN:C	1:44:A:LEU:N	1:44:A:LEU:CA	1:44:A:LEU:C	36	1.11
(1,93)	1:41:A:SER:N	1:41:A:SER:CA	1:41:A:SER:C	1:42:A:ALA:N	28	1.1
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	14	1.1
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	11	1.1
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	35	1.1
(1,53)	1:44:A:LEU:C	1:45:A:LEU:N	1:45:A:LEU:CA	1:45:A:LEU:C	3	1.1
(1,45)	1:34:A:LEU:C	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	5	1.1
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	5	1.09
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	25	1.09
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	18	1.09
(1,101)	1:49:A:LYS:N	1:49:A:LYS:CA	1:49:A:LYS:C	1:50:A:LYS:N	16	1.08
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	24	1.08
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	19	1.08
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	6	1.08
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	8	1.08
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	22	1.08
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	26	1.08
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	27	1.08
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	31	1.08
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	38	1.08
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	38	1.08
(1,70)	1:11:A:ILE:N	1:11:A:ILE:CA	1:11:A:ILE:C	1:12:A:ALA:N	26	1.08
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	32	1.08
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	25	1.08
(1,45)	1:34:A:LEU:C	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	2	1.08
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	7	1.07
(1,45)	1:34:A:LEU:C	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	11	1.07
(1,34)	1:23:A:ASN:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	14	1.07
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	33	1.06
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	14	1.06
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	10	1.06
(1,72)	1:13:A:ILE:N	1:13:A:ILE:CA	1:13:A:ILE:C	1:14:A:GLY:N	33	1.06
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	30	1.06
(1,52)	1:43:A:ASN:C	1:44:A:LEU:N	1:44:A:LEU:CA	1:44:A:LEU:C	26	1.06

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,104)	1:52:A:ASN:N	1:52:A:ASN:CA	1:52:A:ASN:C	1:53:A:ASP:N	32	1.05
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	21	1.05
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	40	1.05
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	20	1.05
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	12	1.05
(1,59)	1:50:A:LYS:C	1:51:A:LEU:N	1:51:A:LEU:CA	1:51:A:LEU:C	3	1.05
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	9	1.05
(1,88)	1:34:A:LEU:N	1:34:A:LEU:CA	1:34:A:LEU:C	1:35:A:ARG:N	28	1.04
(1,78)	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1:25:A:LEU:N	22	1.04
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	2	1.04
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	39	1.04
(1,63)	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	1:6:A:ASN:N	7	1.04
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	40	1.04
(1,34)	1:23:A:ASN:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	8	1.04
(1,34)	1:23:A:ASN:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	29	1.04
(1,101)	1:49:A:LYS:N	1:49:A:LYS:CA	1:49:A:LYS:C	1:50:A:LYS:N	3	1.03
(1,96)	1:44:A:LEU:N	1:44:A:LEU:CA	1:44:A:LEU:C	1:45:A:LEU:N	14	1.03
(1,54)	1:45:A:LEU:C	1:46:A:ALA:N	1:46:A:ALA:CA	1:46:A:ALA:C	11	1.03
(1,34)	1:23:A:ASN:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	1	1.03
(1,34)	1:23:A:ASN:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	6	1.03
(1,104)	1:52:A:ASN:N	1:52:A:ASN:CA	1:52:A:ASN:C	1:53:A:ASP:N	28	1.02
(1,89)	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	1:36:A:ASP:N	35	1.02
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	3	1.02
(1,79)	1:25:A:LEU:N	1:25:A:LEU:CA	1:25:A:LEU:C	1:26:A:GLN:N	11	1.02
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	15	1.02
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	7	1.02
(1,71)	1:12:A:ALA:N	1:12:A:ALA:CA	1:12:A:ALA:C	1:13:A:ILE:N	37	1.02
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	5	1.02
(1,54)	1:45:A:LEU:C	1:46:A:ALA:N	1:46:A:ALA:CA	1:46:A:ALA:C	22	1.02
(1,54)	1:45:A:LEU:C	1:46:A:ALA:N	1:46:A:ALA:CA	1:46:A:ALA:C	38	1.02
(1,89)	1:35:A:ARG:N	1:35:A:ARG:CA	1:35:A:ARG:C	1:36:A:ASP:N	34	1.01
(1,88)	1:34:A:LEU:N	1:34:A:LEU:CA	1:34:A:LEU:C	1:35:A:ARG:N	20	1.01
(1,74)	1:15:A:GLU:N	1:15:A:GLU:CA	1:15:A:GLU:C	1:16:A:ILE:N	4	1.01
(1,65)	1:6:A:ASN:N	1:6:A:ASN:CA	1:6:A:ASN:C	1:7:A:LYS:N	34	1.01
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	14	1.01
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	29	1.01
(1,58)	1:49:A:LYS:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	33	1.01
(1,34)	1:23:A:ASN:C	1:24:A:SER:N	1:24:A:SER:CA	1:24:A:SER:C	39	1.01
(1,19)	1:4:A:LYS:C	1:5:A:PHE:N	1:5:A:PHE:CA	1:5:A:PHE:C	15	1.01
(1,88)	1:34:A:LEU:N	1:34:A:LEU:CA	1:34:A:LEU:C	1:35:A:ARG:N	17	1.0