



Full wwPDB NMR Structure Validation Report ⓘ

Mar 27, 2026 – 08:58 AM UTC

PDB ID : 2N52 / pdb_00002n52
BMRB ID : 25691
Title : The solution structure of the kallikrein inhibitor SPINK6
Authors : Grotzinger, J.
Deposited on : 2015-07-06

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

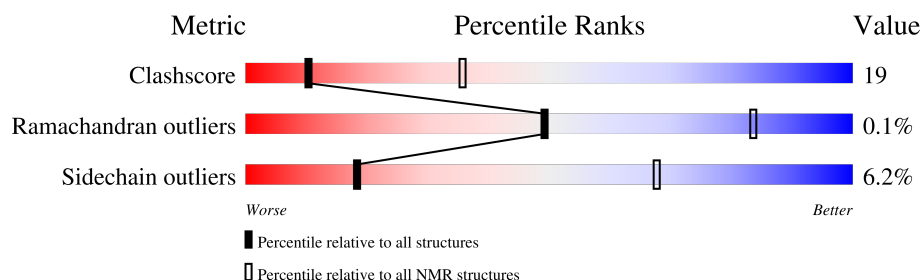
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 48%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	60	

2 Ensemble composition and analysis

This entry contains 20 models. Model 6 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:21-A:57 (37)	0.82	6

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

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

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

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 819 atoms, of which 398 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Serine protease inhibitor Kazal-type 6.

Mol	Chain	Residues	Atoms						Trace
1	A	57	Total	C	H	N	O	S	0
			819	255	398	77	83	6	

There is a discrepancy between the modelled and reference sequences:

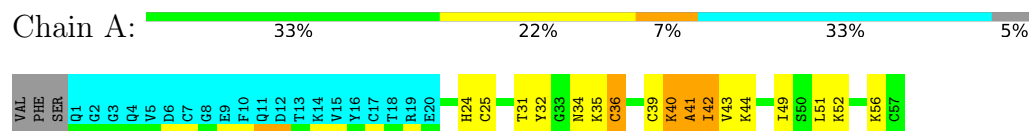
Chain	Residue	Modelled	Actual	Comment	Reference
A	13	THR	PRO	variant	UNP Q6UWN8

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: Serine protease inhibitor Kazal-type 6

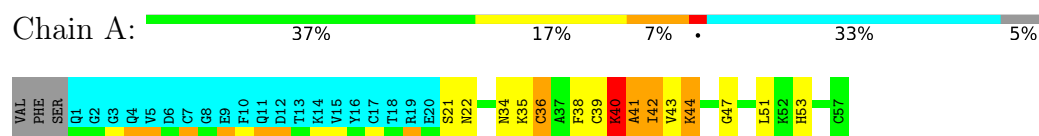


4.2 Scores per residue for each member of the ensemble

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

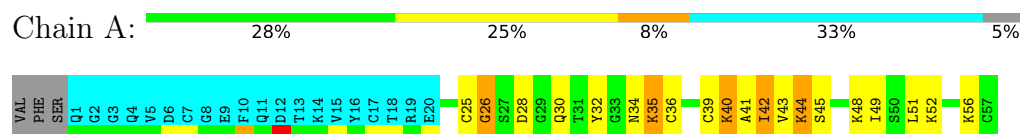
4.2.1 Score per residue for model 1

- Molecule 1: Serine protease inhibitor Kazal-type 6



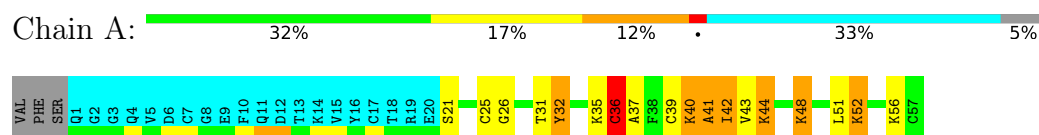
4.2.2 Score per residue for model 2

- Molecule 1: Serine protease inhibitor Kazal-type 6



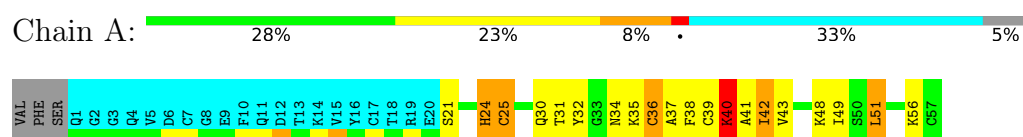
4.2.3 Score per residue for model 3

- Molecule 1: Serine protease inhibitor Kazal-type 6



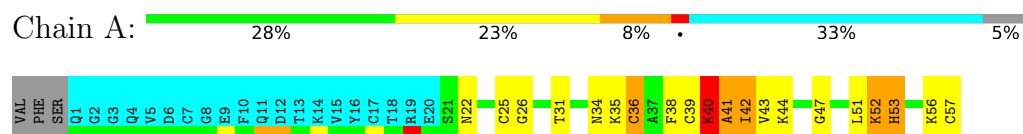
4.2.4 Score per residue for model 4

- Molecule 1: Serine protease inhibitor Kazal-type 6



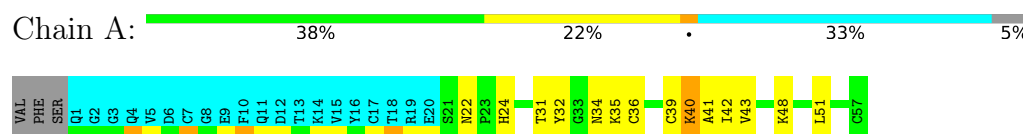
4.2.5 Score per residue for model 5

- Molecule 1: Serine protease inhibitor Kazal-type 6



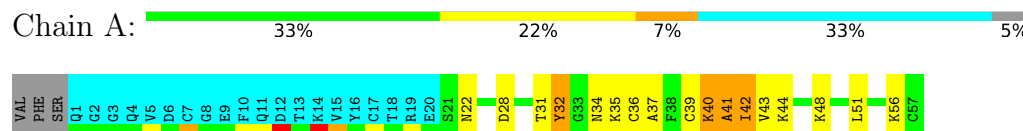
4.2.6 Score per residue for model 6 (medoid)

- Molecule 1: Serine protease inhibitor Kazal-type 6



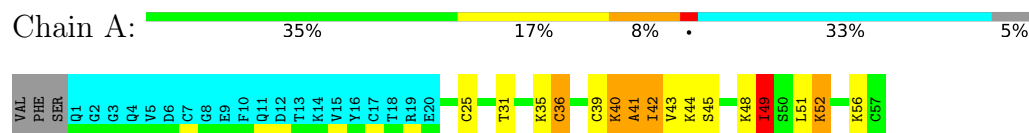
4.2.7 Score per residue for model 7

- Molecule 1: Serine protease inhibitor Kazal-type 6



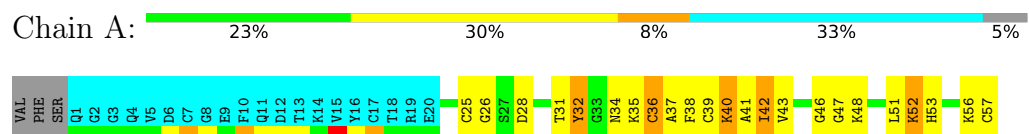
4.2.8 Score per residue for model 8

- Molecule 1: Serine protease inhibitor Kazal-type 6



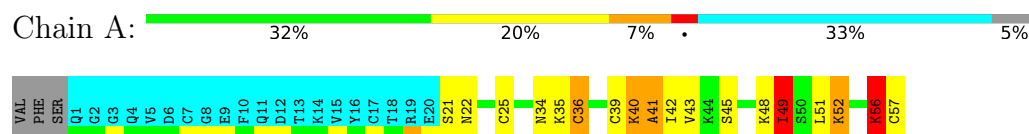
4.2.9 Score per residue for model 9

- Molecule 1: Serine protease inhibitor Kazal-type 6



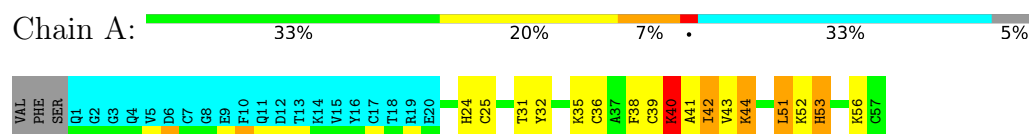
4.2.10 Score per residue for model 10

- Molecule 1: Serine protease inhibitor Kazal-type 6



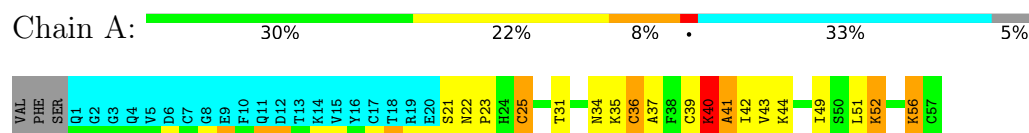
4.2.11 Score per residue for model 11

- Molecule 1: Serine protease inhibitor Kazal-type 6



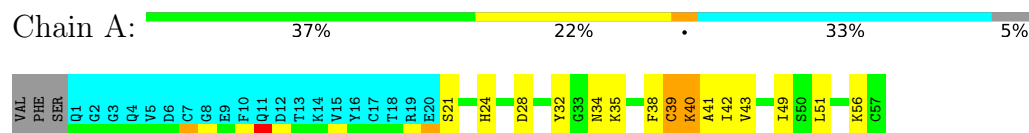
4.2.12 Score per residue for model 12

- Molecule 1: Serine protease inhibitor Kazal-type 6



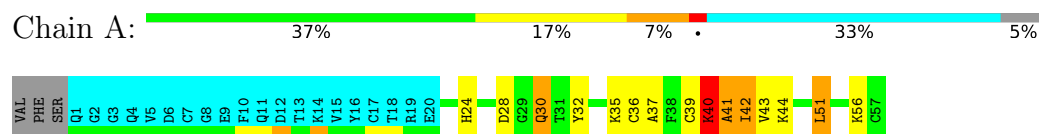
4.2.13 Score per residue for model 13

- Molecule 1: Serine protease inhibitor Kazal-type 6



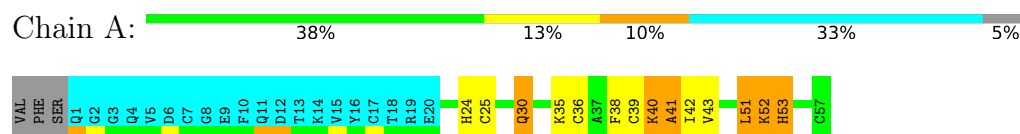
4.2.14 Score per residue for model 14

- Molecule 1: Serine protease inhibitor Kazal-type 6



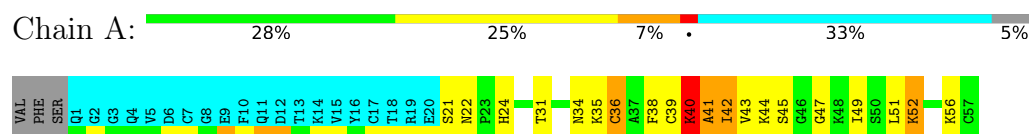
4.2.15 Score per residue for model 15

- Molecule 1: Serine protease inhibitor Kazal-type 6



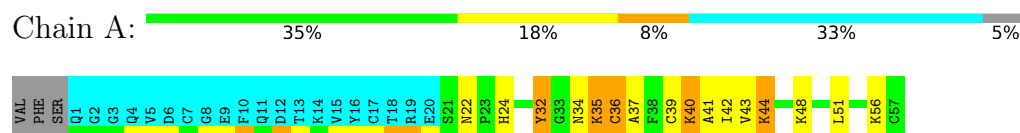
4.2.16 Score per residue for model 16

- Molecule 1: Serine protease inhibitor Kazal-type 6



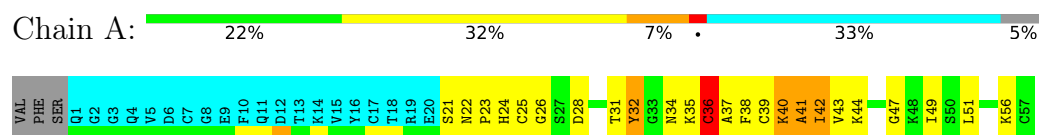
4.2.17 Score per residue for model 17

- Molecule 1: Serine protease inhibitor Kazal-type 6



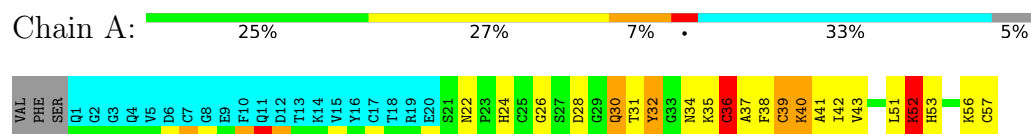
4.2.18 Score per residue for model 18

- Molecule 1: Serine protease inhibitor Kazal-type 6



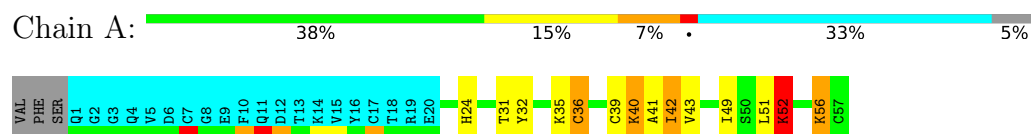
4.2.19 Score per residue for model 19

- Molecule 1: Serine protease inhibitor Kazal-type 6



4.2.20 Score per residue for model 20

- Molecule 1: Serine protease inhibitor Kazal-type 6



5 Refinement protocol and experimental data overview

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

Of the 200 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
CYANA	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	326
Number of shifts mapped to atoms	326
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	48%

6 Model quality

6.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	2.15±0.06	10±2/270 (3.6± 0.7%)	1.47±0.08	1±1/357 (0.3± 0.2%)
All	All	2.15	196/5400 (3.6%)	1.47	19/7140 (0.3%)

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	51	LEU	N-CA	-11.30	1.32	1.46	11	20
1	A	40	LYS	C-N	-9.24	1.21	1.33	15	18
1	A	52	LYS	N-CA	-9.00	1.34	1.46	8	8
1	A	41	ALA	CA-CB	-8.99	1.38	1.53	1	15
1	A	35	LYS	C-N	-7.87	1.24	1.33	2	19
1	A	51	LEU	CA-CB	-7.58	1.42	1.53	10	20
1	A	42	ILE	CA-C	-6.59	1.44	1.52	4	6
1	A	32	TYR	N-CA	-6.50	1.38	1.46	7	11
1	A	39	CYS	CA-C	-6.46	1.44	1.52	19	1
1	A	42	ILE	C-N	-6.38	1.26	1.34	7	10
1	A	41	ALA	CA-C	-6.32	1.44	1.52	18	1
1	A	30	GLN	C-N	-6.20	1.25	1.33	4	4
1	A	36	CYS	C-N	-6.13	1.25	1.33	18	11
1	A	49	ILE	C-N	-5.90	1.25	1.33	10	3
1	A	21	SER	C-N	-5.87	1.26	1.33	3	5
1	A	51	LEU	CB-CG	-5.74	1.42	1.53	1	20
1	A	39	CYS	C-N	-5.67	1.26	1.33	19	1
1	A	56	LYS	C-N	-5.62	1.25	1.33	12	2
1	A	52	LYS	CA-C	-5.58	1.45	1.53	16	1
1	A	30	GLN	CA-C	-5.54	1.45	1.52	19	4
1	A	25	CYS	N-CA	-5.48	1.39	1.46	18	2
1	A	46	GLY	C-N	-5.46	1.25	1.33	9	1
1	A	52	LYS	C-N	-5.46	1.26	1.33	16	2
1	A	24	HIS	CA-C	-5.35	1.46	1.52	18	1
1	A	24	HIS	C-N	-5.35	1.26	1.33	17	3

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	40	LYS	CA-C	-5.34	1.45	1.52	12	3
1	A	42	ILE	N-CA	-5.21	1.40	1.46	9	1
1	A	25	CYS	C-N	-5.20	1.26	1.33	4	1
1	A	26	GLY	CA-C	-5.16	1.47	1.52	2	1
1	A	40	LYS	N-CA	-5.15	1.39	1.46	12	1

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	56	LYS	N-CA-C	6.48	118.67	110.24	10	3
1	A	53	HIS	CA-CB-CG	5.99	119.79	113.80	15	6
1	A	24	HIS	CA-CB-CG	5.95	119.75	113.80	4	2
1	A	28	ASP	N-CA-C	-5.70	106.17	113.01	13	4
1	A	48	LYS	CB-CA-C	-5.42	101.79	110.79	8	1
1	A	28	ASP	CA-CB-CG	5.31	117.91	112.60	9	1
1	A	38	PHE	CA-CB-CG	5.24	119.04	113.80	11	1
1	A	42	ILE	N-CA-C	-5.05	105.62	110.72	7	1

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	265	261	261	10±2
All	All	5300	5220	5220	200

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 19.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:39:CYS:O	1:A:43:VAL:HG23	0.73	1.84	9	20
1:A:22:ASN:O	1:A:34:ASN:HA	0.72	1.84	5	10
1:A:40:LYS:HD2	1:A:41:ALA:N	0.71	2.01	17	12
1:A:25:CYS:SG	1:A:52:LYS:HD3	0.69	2.27	12	1
1:A:42:ILE:HG22	1:A:47:GLY:HA2	0.69	1.62	16	3
1:A:42:ILE:HA	1:A:49:ILE:HD13	0.68	1.65	8	3
1:A:39:CYS:HA	1:A:42:ILE:HD12	0.68	1.64	4	16
1:A:41:ALA:O	1:A:44:LYS:HB2	0.63	1.93	1	2
1:A:40:LYS:O	1:A:44:LYS:HG2	0.63	1.94	12	6
1:A:24:HIS:HB2	1:A:51:LEU:HD13	0.59	1.74	4	2
1:A:52:LYS:NZ	1:A:52:LYS:HA	0.59	2.13	20	1
1:A:42:ILE:CG2	1:A:47:GLY:HA2	0.58	2.27	16	5
1:A:26:GLY:HA3	1:A:38:PHE:CE1	0.58	2.33	9	3
1:A:24:HIS:HB2	1:A:51:LEU:CD1	0.57	2.30	4	2
1:A:41:ALA:O	1:A:44:LYS:HG2	0.56	2.01	16	1
1:A:45:SER:O	1:A:48:LYS:HD3	0.55	2.01	2	1
1:A:52:LYS:HD2	1:A:57:CYS:SG	0.54	2.42	19	2
1:A:26:GLY:O	1:A:52:LYS:HE3	0.53	2.03	2	1
1:A:42:ILE:HA	1:A:49:ILE:HD12	0.53	1.81	4	1
1:A:38:PHE:CE2	1:A:42:ILE:HD11	0.53	2.39	9	2
1:A:28:ASP:OD1	1:A:30:GLN:HG3	0.53	2.03	14	2
1:A:21:SER:O	1:A:23:PRO:HD3	0.52	2.04	12	2
1:A:39:CYS:SG	1:A:40:LYS:N	0.52	2.83	20	1
1:A:26:GLY:HA3	1:A:38:PHE:CZ	0.52	2.40	19	1
1:A:34:ASN:OD1	1:A:36:CYS:HB2	0.52	2.05	5	1
1:A:40:LYS:H	1:A:40:LYS:HD2	0.51	1.64	16	2
1:A:41:ALA:O	1:A:49:ILE:HD12	0.50	2.07	13	2
1:A:40:LYS:O	1:A:43:VAL:HB	0.49	2.07	4	9
1:A:49:ILE:HD12	1:A:49:ILE:H	0.49	1.66	8	2
1:A:44:LYS:NZ	1:A:44:LYS:HA	0.49	2.22	2	1
1:A:25:CYS:O	1:A:52:LYS:HB3	0.48	2.08	9	6
1:A:25:CYS:SG	1:A:52:LYS:HD2	0.48	2.49	2	1
1:A:31:THR:CG2	1:A:56:LYS:HA	0.48	2.38	7	8
1:A:44:LYS:NZ	1:A:44:LYS:HB3	0.47	2.25	1	1
1:A:37:ALA:O	1:A:40:LYS:HE2	0.47	2.09	12	2
1:A:39:CYS:O	1:A:42:ILE:HB	0.47	2.09	16	6
1:A:38:PHE:O	1:A:41:ALA:HB3	0.47	2.10	16	2
1:A:34:ASN:OD1	1:A:36:CYS:HB3	0.46	2.10	9	2
1:A:31:THR:HG21	1:A:56:LYS:HA	0.46	1.87	20	3
1:A:25:CYS:HB3	1:A:53:HIS:HB2	0.46	1.88	15	3
1:A:56:LYS:HZ3	1:A:57:CYS:C	0.46	2.19	10	1
1:A:48:LYS:NZ	1:A:48:LYS:HA	0.46	2.26	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:45:SER:HB3	1:A:49:ILE:HD11	0.45	1.86	8	1
1:A:24:HIS:HB3	1:A:51:LEU:CD1	0.45	2.40	14	2
1:A:40:LYS:HD3	1:A:40:LYS:C	0.45	2.36	2	1
1:A:49:ILE:N	1:A:49:ILE:HD12	0.45	2.26	10	1
1:A:40:LYS:HB2	1:A:40:LYS:NZ	0.45	2.27	2	1
1:A:34:ASN:ND2	1:A:36:CYS:HB3	0.45	2.27	7	2
1:A:56:LYS:HB3	1:A:56:LYS:NZ	0.45	2.27	2	4
1:A:32:TYR:HB3	1:A:37:ALA:HB3	0.45	1.88	7	6
1:A:32:TYR:HB2	1:A:38:PHE:CD1	0.45	2.47	4	1
1:A:40:LYS:HD3	1:A:41:ALA:N	0.45	2.27	5	1
1:A:40:LYS:HG2	1:A:41:ALA:N	0.44	2.26	10	1
1:A:48:LYS:N	1:A:48:LYS:HD2	0.44	2.27	9	1
1:A:25:CYS:O	1:A:51:LEU:HD12	0.44	2.12	4	1
1:A:44:LYS:HE3	1:A:44:LYS:HA	0.43	1.88	3	1
1:A:34:ASN:O	1:A:37:ALA:HB3	0.43	2.13	4	1
1:A:45:SER:HB2	1:A:49:ILE:HD11	0.43	1.91	10	2
1:A:31:THR:HG21	1:A:56:LYS:CB	0.43	2.44	8	3
1:A:24:HIS:HB3	1:A:51:LEU:HD13	0.43	1.90	14	1
1:A:26:GLY:O	1:A:52:LYS:HE2	0.42	2.14	3	1
1:A:24:HIS:HB2	1:A:32:TYR:CZ	0.42	2.49	11	1
1:A:52:LYS:HA	1:A:52:LYS:HZ2	0.42	1.73	20	1
1:A:52:LYS:NZ	1:A:57:CYS:SG	0.42	2.93	5	1
1:A:30:GLN:HB2	1:A:38:PHE:CE1	0.42	2.49	15	1
1:A:44:LYS:HA	1:A:44:LYS:HE3	0.41	1.90	11	1
1:A:44:LYS:HA	1:A:44:LYS:NZ	0.41	2.30	17	1
1:A:24:HIS:O	1:A:31:THR:HA	0.41	2.16	16	2
1:A:25:CYS:HA	1:A:31:THR:HA	0.41	1.92	9	1
1:A:28:ASP:CB	1:A:49:ILE:HG12	0.41	2.46	2	1
1:A:49:ILE:HD12	1:A:49:ILE:N	0.41	2.30	8	1
1:A:40:LYS:HD2	1:A:41:ALA:H	0.41	1.76	19	1
1:A:44:LYS:HA	1:A:44:LYS:CE	0.41	2.45	3	1
1:A:32:TYR:HB3	1:A:37:ALA:CB	0.41	2.46	18	1
1:A:39:CYS:SG	1:A:43:VAL:HG21	0.41	2.56	13	1

6.3 Torsion angles ⓘ

6.3.1 Protein backbone ⓘ

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

was analysed and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	36/60 (60%)	35±1 (98±2%)	1±1 (2±2%)	0±0 (0±1%)	49 83
All	All	720/1200 (60%)	703 (98%)	16 (2%)	1 (0%)	49 83

All 1 unique Ramachandran outliers are listed below.

Mol	Chain	Res	Type	Models (Total)
1	A	21	SER	1

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	29/49 (59%)	27±1 (94±4%)	2±1 (6±4%)	18 68
All	All	580/980 (59%)	544 (94%)	36 (6%)	18 68

All 10 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	40	LYS	9
1	A	48	LYS	6
1	A	36	CYS	5
1	A	44	LYS	5
1	A	52	LYS	4
1	A	49	ILE	2
1	A	56	LYS	2
1	A	39	CYS	1
1	A	35	LYS	1
1	A	24	HIS	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 48% for the well-defined parts and 47% 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	326
Number of shifts mapped to atoms	326
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
$^{13}\text{C}_\alpha$	0	—	None (insufficient data)
$^{13}\text{C}_\beta$	0	—	None (insufficient data)
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	55	-0.67 ± 0.55	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 48%, i.e. 212 atoms were assigned a chemical shift out of a possible 443. 0 out of 2 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	111/187 (59%)	76/78 (97%)	0/74 (0%)	35/35 (100%)
Sidechain	101/223 (45%)	101/144 (70%)	0/70 (0%)	0/9 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	0/33 (0%)	0/17 (0%)	0/14 (0%)	0/2 (0%)
Overall	212/443 (48%)	177/239 (74%)	0/158 (0%)	35/46 (76%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 47%, i.e. 326 atoms were assigned a chemical shift out of a possible 692. 0 out of 4 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	172/290 (59%)	117/121 (97%)	0/114 (0%)	55/55 (100%)
Sidechain	154/350 (44%)	154/223 (69%)	0/111 (0%)	0/16 (0%)
Aromatic	0/52 (0%)	0/26 (0%)	0/24 (0%)	0/2 (0%)
Overall	326/692 (47%)	271/370 (73%)	0/249 (0%)	55/73 (75%)

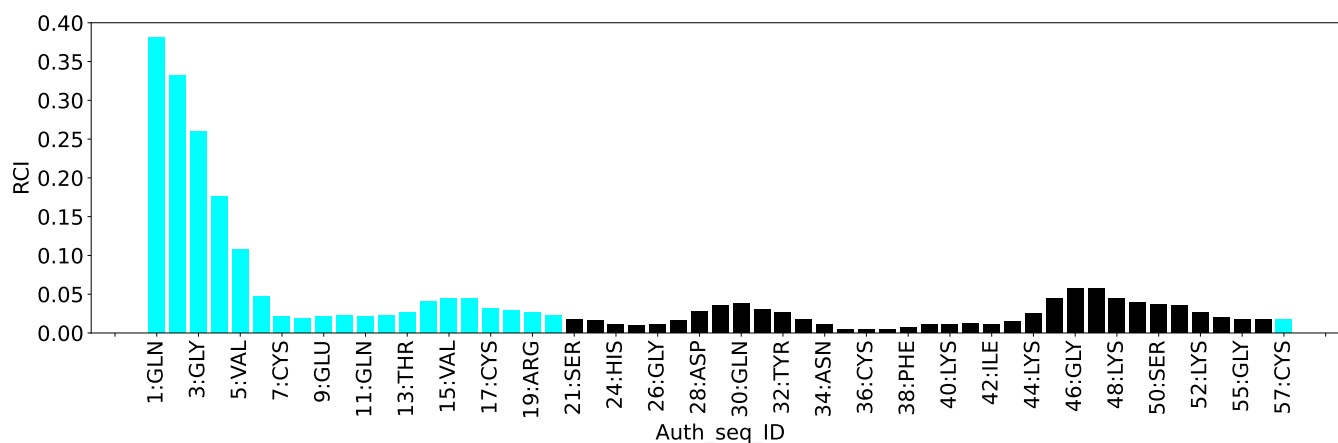
7.1.4 Statistically unusual chemical shifts [i](#)

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	427
Intra-residue ($ i-j =0$)	166
Sequential ($ i-j =1$)	159
Medium range ($ i-j >1$ and $ i-j <5$)	59
Long range ($ i-j \geq 5$)	43
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	7.1
Number of long range restraints per residue ¹	0.7

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)	20.9	0.2
0.2-0.5 (Medium)	24.9	0.5
>0.5 (Large)	27.6	4.62

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

Dihedral-angle violations less than 1° are not included in the calculation. There are no dihedral-angle violations

9 Distance violation analysis ⓘ

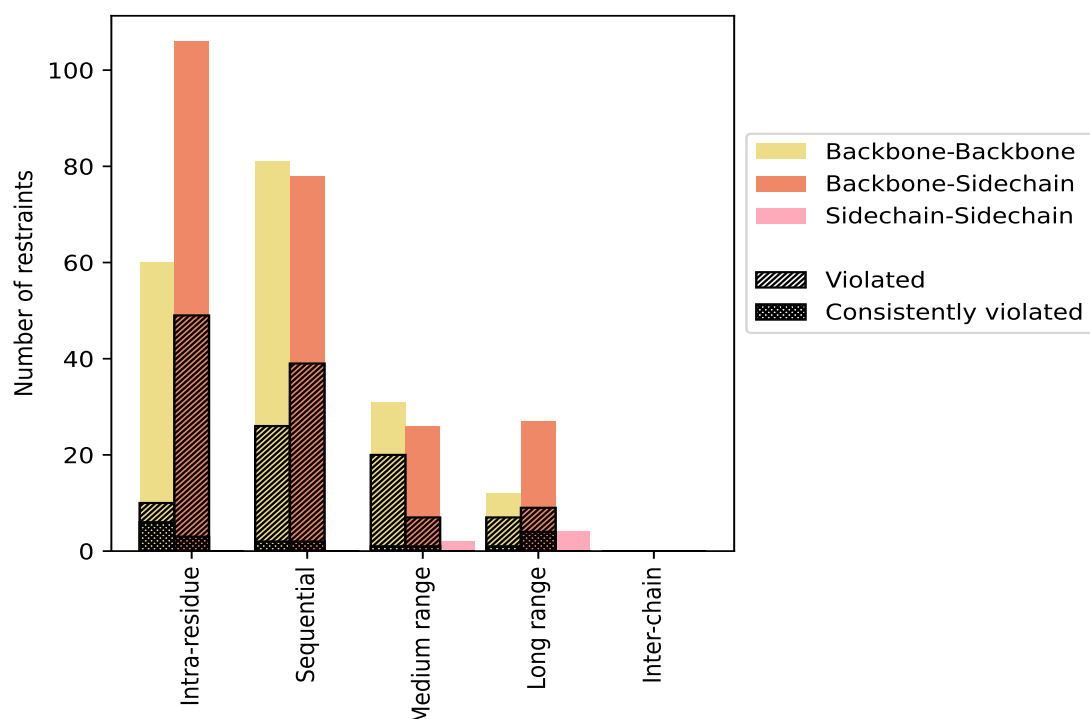
9.1 Summary of distance violations ⓘ

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)	166	38.9	59	35.5	13.8	9	5.4	2.1
Backbone-Backbone	60	14.1	10	16.7	2.3	6	10.0	1.4
Backbone-Sidechain	106	24.8	49	46.2	11.5	3	2.8	0.7
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sequential (i-j =1)	159	37.2	65	40.9	15.2	4	2.5	0.9
Backbone-Backbone	81	19.0	26	32.1	6.1	2	2.5	0.5
Backbone-Sidechain	78	18.3	39	50.0	9.1	2	2.6	0.5
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Medium range (i-j >1 & i-j <5)	59	13.8	27	45.8	6.3	2	3.4	0.5
Backbone-Backbone	31	7.3	20	64.5	4.7	1	3.2	0.2
Backbone-Sidechain	26	6.1	7	26.9	1.6	1	3.8	0.2
Sidechain-Sidechain	2	0.5	0	0.0	0.0	0	0.0	0.0
Long range (i-j ≥5)	43	10.1	16	37.2	3.7	5	11.6	1.2
Backbone-Backbone	12	2.8	7	58.3	1.6	1	8.3	0.2
Backbone-Sidechain	27	6.3	9	33.3	2.1	4	14.8	0.9
Sidechain-Sidechain	4	0.9	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	427	100.0	167	39.1	39.1	20	4.7	4.7
Backbone-Backbone	184	43.1	63	34.2	14.8	10	5.4	2.3
Backbone-Sidechain	237	55.5	104	43.9	24.4	10	4.2	2.3
Sidechain-Sidechain	6	1.4	0	0.0	0.0	0	0.0	0.0

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	28	27	8	11	0	74	0.54	3.86	0.52	0.41
2	25	27	13	9	0	74	0.53	2.93	0.52	0.37
3	31	30	9	8	0	78	0.49	3.31	0.45	0.38
4	26	30	9	10	0	75	0.48	2.91	0.43	0.35
5	26	27	6	9	0	68	0.53	3.18	0.44	0.44
6	23	30	9	7	0	69	0.53	4.45	0.57	0.4
7	30	26	14	7	0	77	0.48	2.93	0.48	0.34
8	30	32	9	11	0	82	0.46	2.96	0.42	0.33
9	30	27	13	10	0	80	0.43	1.72	0.34	0.29
10	25	31	11	8	0	75	0.52	2.9	0.45	0.38

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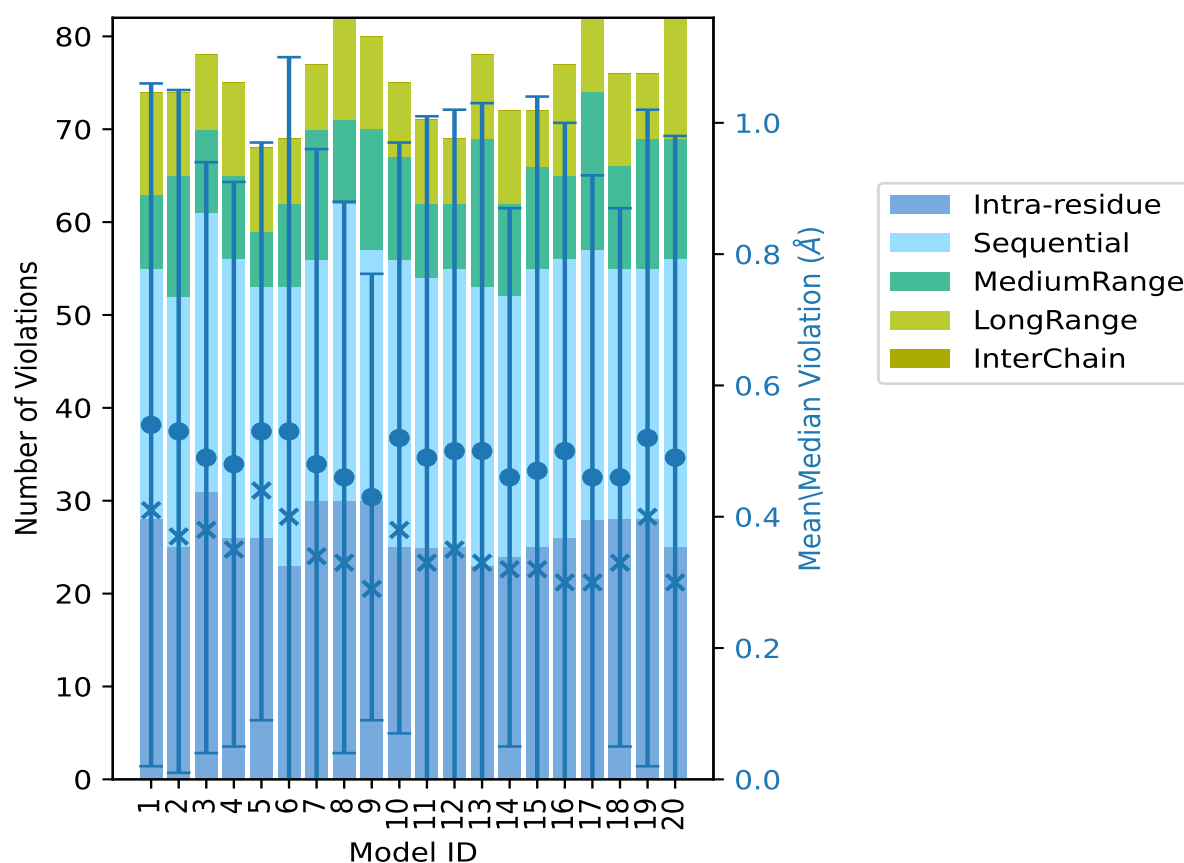
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	25	29	8	9	0	71	0.49	3.96	0.52	0.33
12	25	30	7	7	0	69	0.5	3.93	0.52	0.35
13	23	30	16	9	0	78	0.5	4.11	0.53	0.33
14	24	28	10	10	0	72	0.46	2.72	0.41	0.32
15	25	30	11	6	0	72	0.47	4.62	0.57	0.32
16	26	30	9	12	0	77	0.5	3.57	0.5	0.3
17	28	29	17	8	0	82	0.46	2.95	0.46	0.3
18	28	27	11	10	0	76	0.46	2.8	0.41	0.33
19	28	27	14	7	0	76	0.52	3.7	0.5	0.4
20	25	31	13	13	0	82	0.49	3.7	0.49	0.3

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

⁵Inter-chain restraints, ⁶Standard deviation

9.2.1 Bar graph : Distance Violation statistics for each model ⓘ



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

9.3 Distance violation statistics for the ensemble

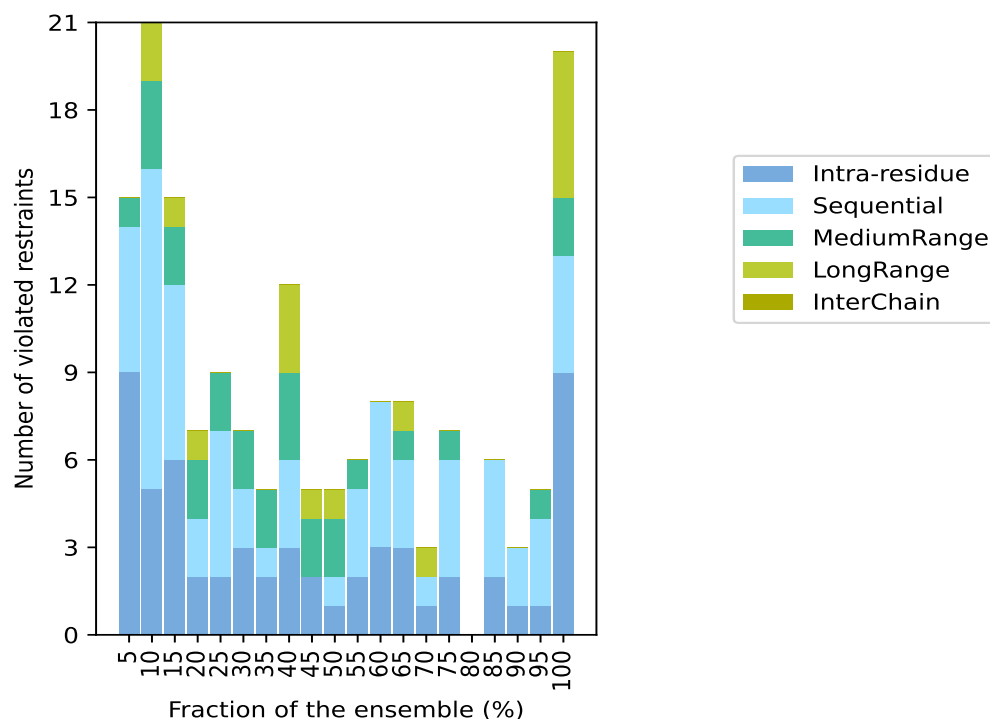
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 260(IR:107, SQ:94, MR:32, LR:27, IC:0) restraints are not 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	%
9	5	1	0	0	15	1	5.0
5	11	3	2	0	21	2	10.0
6	6	2	1	0	15	3	15.0
2	2	2	1	0	7	4	20.0
2	5	2	0	0	9	5	25.0
3	2	2	0	0	7	6	30.0
2	1	2	0	0	5	7	35.0
3	3	3	3	0	12	8	40.0
2	0	2	1	0	5	9	45.0
1	1	2	1	0	5	10	50.0
2	3	1	0	0	6	11	55.0
3	5	0	0	0	8	12	60.0
3	3	1	1	0	8	13	65.0
1	1	0	1	0	3	14	70.0
2	4	1	0	0	7	15	75.0
0	0	0	0	0	0	16	80.0
2	4	0	0	0	6	17	85.0
1	2	0	0	0	3	18	90.0
1	3	1	0	0	5	19	95.0
9	4	2	5	0	20	20	100.0

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

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

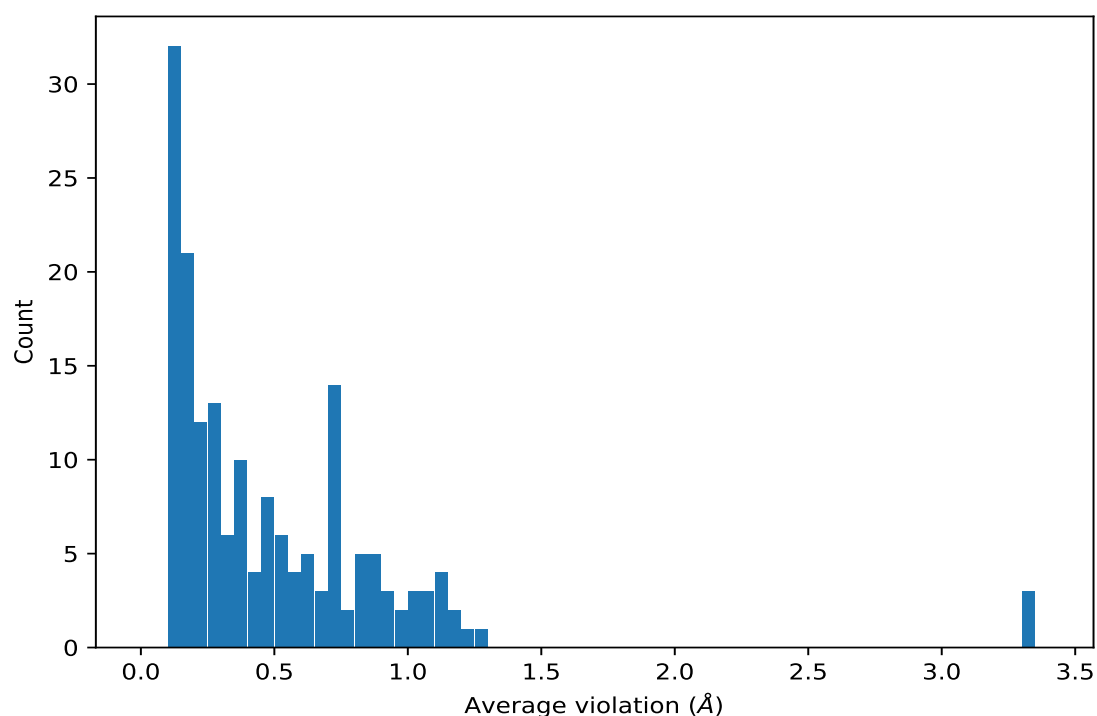
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	20	3.34	0.7	3.24
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	20	3.34	0.7	3.24
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	20	3.34	0.7	3.24
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	20	1.19	0.13	1.18
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	20	0.85	0.05	0.86
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	20	0.85	0.05	0.86
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	20	0.85	0.05	0.86
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	20	0.73	0.14	0.76
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	20	0.73	0.14	0.76
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	20	0.73	0.14	0.76
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	20	0.73	0.14	0.76
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	20	0.73	0.14	0.76
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	20	0.73	0.14	0.76
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	20	0.62	0.06	0.64
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	20	0.61	0.05	0.62
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	20	0.51	0.08	0.52

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	20	0.51	0.06	0.54
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	20	0.43	0.04	0.44
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	20	0.41	0.03	0.42
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	20	0.39	0.02	0.4
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	20	0.39	0.03	0.39
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	20	0.31	0.01	0.31
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	20	0.29	0.04	0.29
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	20	0.29	0.04	0.29
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	20	0.29	0.04	0.29
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	20	0.29	0.04	0.29
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	20	0.28	0.03	0.28
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	20	0.27	0.03	0.27
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	20	0.23	0.02	0.23
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	20	0.23	0.02	0.23
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	20	0.23	0.02	0.23
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	20	0.23	0.03	0.22
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	19	0.92	0.21	0.93
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	19	0.67	0.15	0.65
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	19	0.54	0.14	0.5
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	19	0.31	0.07	0.3
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	19	0.26	0.02	0.25
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	18	0.24	0.05	0.24
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	18	0.15	0.03	0.16
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	18	0.15	0.03	0.16
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	17	1.2	0.1	1.2
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	17	0.88	0.17	0.84
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	17	0.57	0.05	0.59
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	17	0.55	0.16	0.51
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	17	0.4	0.04	0.4
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	17	0.21	0.06	0.23
(1,13)	1:21:A:SER:HB2	1:22:A:ASN:H	15	0.74	0.06	0.74
(1,21)	1:44:A:LYS:HG3	1:44:A:LYS:H	15	0.68	0.13	0.68
(1,9)	1:9:A:GLU:HB3	1:10:A:PHE:H	15	0.5	0.29	0.61
(1,250)	1:16:A:TYR:HB2	1:16:A:TYR:H	15	0.47	0.07	0.49
(1,38)	1:40:A:LYS:HB2	1:41:A:ALA:H	15	0.39	0.3	0.28
(1,289)	1:42:A:ILE:H	1:40:A:LYS:H	15	0.15	0.03	0.15
(1,99)	1:40:A:LYS:HA	1:41:A:ALA:H	15	0.12	0.01	0.12
(1,185)	1:36:A:CYS:HB3	1:18:A:THR:H	14	0.5	0.3	0.44
(1,119)	1:10:A:PHE:HB3	1:11:A:GLN:H	14	0.33	0.29	0.18
(1,343)	1:33:A:GLY:HA2	1:33:A:GLY:H	14	0.13	0.02	0.13
(1,240)	1:7:A:CYS:HB3	1:7:A:CYS:H	13	0.82	0.11	0.82
(1,151)	1:16:A:TYR:HA	1:7:A:CYS:H	13	0.8	1.06	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,42)	1:3:A:GLY:HA3	1:4:A:GLN:H	13	0.62	0.26	0.7
(1,205)	1:36:A:CYS:HB3	1:36:A:CYS:H	13	0.58	0.27	0.45
(1,1)	1:21:A:SER:HB3	1:21:A:SER:H	13	0.28	0.07	0.29
(1,310)	1:55:A:GLY:HA3	1:56:A:LYS:H	13	0.23	0.09	0.2
(1,320)	1:11:A:GLN:H	1:10:A:PHE:H	13	0.23	0.11	0.16
(1,347)	1:29:A:GLY:H	1:27:A:SER:H	13	0.14	0.03	0.13
(1,40)	1:56:A:LYS:HG3	1:56:A:LYS:H	12	0.84	0.03	0.84
(1,31)	1:52:A:LYS:HB3	1:52:A:LYS:H	12	0.82	0.02	0.82
(1,86)	1:52:A:LYS:HG2	1:53:A:HIS:H	12	0.78	0.3	0.88
(1,32)	1:19:A:ARG:HG2	1:20:A:GLU:H	12	0.74	0.4	0.64
(1,155)	1:16:A:TYR:HB3	1:17:A:CYS:H	12	0.71	0.2	0.78
(1,23)	1:56:A:LYS:HG2	1:57:A:CYS:H	12	0.62	0.09	0.57
(1,60)	1:36:A:CYS:HB2	1:37:A:ALA:H	12	0.38	0.19	0.39
(1,355)	1:53:A:HIS:HB3	1:53:A:HIS:H	12	0.17	0.03	0.16
(1,226)	1:39:A:CYS:HB3	1:39:A:CYS:H	11	0.34	0.35	0.16
(1,181)	1:18:A:THR:HB	1:19:A:ARG:H	11	0.21	0.03	0.2
(1,216)	1:42:A:ILE:HG12	1:42:A:ILE:H	11	0.16	0.05	0.18
(1,131)	1:13:A:THR:HB	1:14:A:LYS:H	11	0.15	0.03	0.15
(1,112)	1:40:A:LYS:HA	1:43:A:VAL:H	11	0.14	0.02	0.13
(1,88)	1:49:A:ILE:HB	1:50:A:SER:H	11	0.13	0.01	0.14
(1,134)	1:11:A:GLN:HG3	1:12:A:ASP:H	10	0.7	0.28	0.77
(1,143)	1:7:A:CYS:HA	1:10:A:PHE:H	10	0.31	0.25	0.24
(1,362)	1:27:A:SER:HA	1:52:A:LYS:H	10	0.17	0.04	0.17
(1,349)	1:41:A:ALA:H	1:39:A:CYS:H	10	0.17	0.03	0.16
(1,200)	1:30:A:GLN:HA	1:30:A:GLN:H	10	0.12	0.02	0.12
(1,41)	1:22:A:ASN:HB2	1:35:A:LYS:H	9	0.96	0.35	1.05
(1,33)	1:52:A:LYS:HG3	1:52:A:LYS:H	9	0.81	0.3	0.92
(1,10)	1:4:A:GLN:HG3	1:4:A:GLN:H	9	0.32	0.23	0.24
(1,370)	1:39:A:CYS:HA	1:42:A:ILE:HB	9	0.15	0.05	0.14
(1,380)	1:39:A:CYS:HA	1:42:A:ILE:HB	9	0.15	0.05	0.14
(1,85)	1:52:A:LYS:HB2	1:53:A:HIS:H	8	1.29	0.08	1.3
(1,365)	1:43:A:VAL:HG11	1:11:A:GLN:HA	8	1.1	0.16	1.04
(1,365)	1:43:A:VAL:HG12	1:11:A:GLN:HA	8	1.1	0.16	1.04
(1,365)	1:43:A:VAL:HG13	1:11:A:GLN:HA	8	1.1	0.16	1.04
(1,25)	1:56:A:LYS:HB2	1:57:A:CYS:H	8	1.03	0.07	1.02
(1,36)	1:56:A:LYS:HB3	1:56:A:LYS:H	8	1.0	0.02	1.0
(1,117)	1:13:A:THR:HB	1:13:A:THR:H	8	0.16	0.04	0.15
(1,123)	1:43:A:VAL:HA	1:11:A:GLN:H	8	0.15	0.05	0.15
(1,58)	1:35:A:LYS:HA	1:37:A:ALA:H	8	0.15	0.03	0.16
(1,302)	1:30:A:GLN:H	1:26:A:GLY:H	8	0.15	0.02	0.15
(1,68)	1:42:A:ILE:HA	1:49:A:ILE:H	8	0.14	0.03	0.14
(1,300)	1:49:A:ILE:H	1:47:A:GLY:H	8	0.14	0.02	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,162)	1:24:A:HIS:HB2	1:25:A:CYS:H	8	0.14	0.02	0.14
(1,211)	1:43:A:VAL:HB	1:43:A:VAL:H	8	0.14	0.02	0.14
(1,146)	1:7:A:CYS:HB3	1:10:A:PHE:H	7	0.93	0.29	1.09
(1,39)	1:11:A:GLN:HG2	1:11:A:GLN:H	7	0.74	0.28	0.65
(1,28)	1:19:A:ARG:HG3	1:19:A:ARG:H	7	0.66	0.1	0.66
(1,107)	1:41:A:ALA:HB1	1:44:A:LYS:H	7	0.45	0.12	0.5
(1,107)	1:41:A:ALA:HB2	1:44:A:LYS:H	7	0.45	0.12	0.5
(1,107)	1:41:A:ALA:HB3	1:44:A:LYS:H	7	0.45	0.12	0.5
(1,118)	1:12:A:ASP:HB2	1:13:A:THR:H	7	0.19	0.06	0.18
(1,15)	1:14:A:LYS:HB3	1:14:A:LYS:H	6	1.14	0.03	1.13
(1,3)	1:5:A:VAL:HG21	1:5:A:VAL:H	6	1.09	0.1	1.1
(1,3)	1:5:A:VAL:HG22	1:5:A:VAL:H	6	1.09	0.1	1.1
(1,3)	1:5:A:VAL:HG23	1:5:A:VAL:H	6	1.09	0.1	1.1
(1,4)	1:48:A:LYS:HD3	1:48:A:LYS:H	6	0.99	0.07	1.02
(1,152)	1:6:A:ASP:HB2	1:7:A:CYS:H	6	0.17	0.04	0.18
(1,57)	1:32:A:TYR:HB2	1:33:A:GLY:H	6	0.14	0.03	0.14
(1,345)	1:30:A:GLN:H	1:28:A:ASP:H	6	0.14	0.02	0.14
(1,192)	1:18:A:THR:HA	1:20:A:GLU:H	6	0.13	0.02	0.13
(1,257)	1:16:A:TYR:HB3	1:16:A:TYR:H	5	0.5	0.09	0.49
(1,66)	1:36:A:CYS:HB2	1:36:A:CYS:H	5	0.37	0.11	0.41
(1,116)	1:10:A:PHE:HA	1:12:A:ASP:H	5	0.26	0.07	0.27
(1,121)	1:10:A:PHE:HB2	1:11:A:GLN:H	5	0.2	0.08	0.18
(1,305)	1:17:A:CYS:HA	1:18:A:THR:H	5	0.16	0.03	0.17
(1,77)	1:43:A:VAL:HA	1:47:A:GLY:H	5	0.13	0.01	0.13
(1,70)	1:48:A:LYS:HA	1:49:A:ILE:H	5	0.12	0.01	0.12
(1,322)	1:15:A:VAL:H	1:16:A:TYR:H	5	0.12	0.01	0.12
(1,148)	1:9:A:GLU:HA	1:10:A:PHE:H	5	0.11	0.01	0.11
(1,228)	1:39:A:CYS:HB2	1:39:A:CYS:H	4	0.73	0.39	0.82
(1,147)	1:43:A:VAL:HG11	1:10:A:PHE:H	4	0.49	0.22	0.46
(1,147)	1:43:A:VAL:HG12	1:10:A:PHE:H	4	0.49	0.22	0.46
(1,147)	1:43:A:VAL:HG13	1:10:A:PHE:H	4	0.49	0.22	0.46
(1,5)	1:48:A:LYS:HG3	1:48:A:LYS:H	4	0.38	0.21	0.32
(1,34)	1:49:A:ILE:HG12	1:50:A:SER:H	4	0.38	0.1	0.41
(1,144)	1:8:A:GLY:HA2	1:10:A:PHE:H	4	0.29	0.12	0.3
(1,145)	1:6:A:ASP:HB3	1:7:A:CYS:H	4	0.18	0.05	0.16
(1,100)	1:38:A:PHE:HA	1:41:A:ALA:H	4	0.13	0.01	0.14
(1,81)	1:50:A:SER:HB3	1:51:A:LEU:H	3	1.17	0.03	1.16
(1,218)	1:40:A:LYS:HG3	1:40:A:LYS:H	3	1.0	0.12	0.94
(1,37)	1:40:A:LYS:HD2	1:41:A:ALA:H	3	0.92	0.27	0.94
(1,230)	1:4:A:GLN:HB3	1:4:A:GLN:H	3	0.88	0.03	0.87
(1,62)	1:36:A:CYS:HB3	1:37:A:ALA:H	3	0.72	0.03	0.73
(1,183)	1:16:A:TYR:HB2	1:17:A:CYS:H	3	0.42	0.22	0.34

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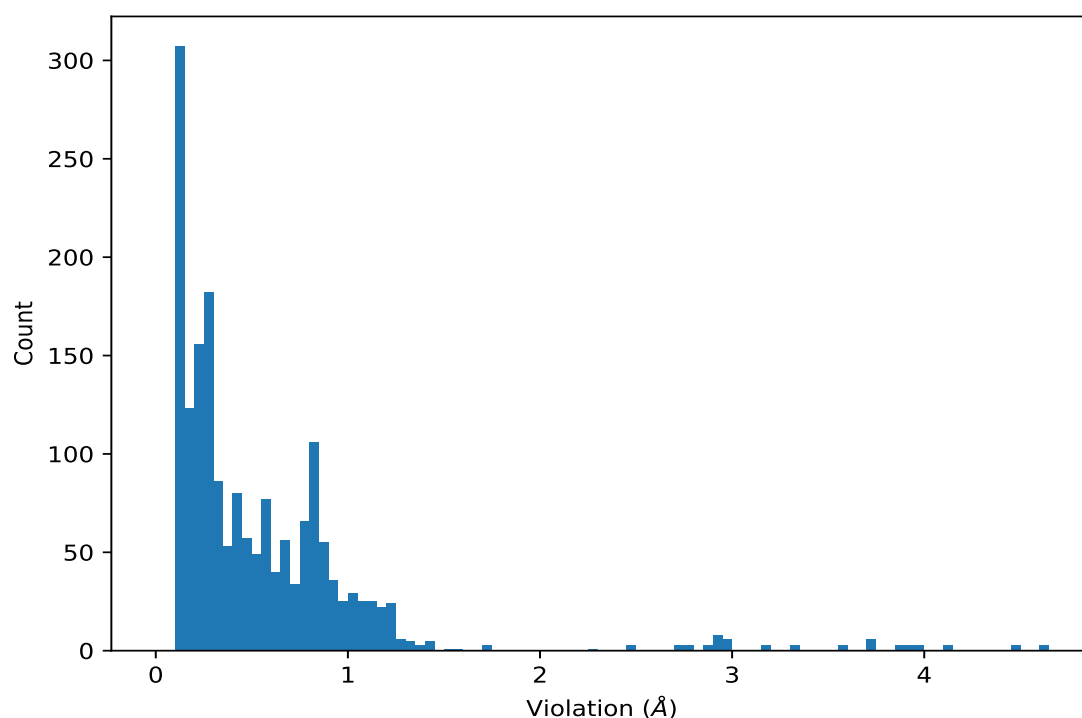
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,242)	1:7:A:CYS:HB2	1:7:A:CYS:H	3	0.37	0.02	0.37
(1,299)	1:50:A:SER:HB2	1:50:A:SER:H	3	0.29	0.02	0.28
(1,29)	1:52:A:LYS:HD3	1:52:A:LYS:H	3	0.28	0.09	0.26
(1,19)	1:20:A:GLU:HB3	1:22:A:ASN:H	3	0.2	0.03	0.21
(1,139)	1:4:A:GLN:HA	1:5:A:VAL:H	3	0.16	0.03	0.16
(1,44)	1:35:A:LYS:HA	1:38:A:PHE:H	3	0.14	0.03	0.16
(1,124)	1:12:A:ASP:HA	1:13:A:THR:H	3	0.14	0.03	0.12
(1,318)	1:27:A:SER:H	1:50:A:SER:H	3	0.12	0.01	0.12
(1,272)	1:44:A:LYS:HA	1:44:A:LYS:H	3	0.1	0.0	0.1
(1,280)	1:24:A:HIS:HB2	1:24:A:HIS:H	2	0.76	0.01	0.76
(1,176)	1:24:A:HIS:HB3	1:25:A:CYS:H	2	0.7	0.01	0.7
(1,12)	1:14:A:LYS:HG2	1:15:A:VAL:H	2	0.64	0.03	0.64
(1,204)	1:40:A:LYS:HD2	1:40:A:LYS:H	2	0.55	0.06	0.55
(1,276)	1:28:A:ASP:HB3	1:28:A:ASP:H	2	0.45	0.01	0.45
(1,61)	1:17:A:CYS:HB2	1:37:A:ALA:H	2	0.38	0.13	0.38
(1,234)	1:14:A:LYS:HG2	1:14:A:LYS:H	2	0.36	0.09	0.36
(1,115)	1:11:A:GLN:HB2	1:12:A:ASP:H	2	0.25	0.08	0.25
(1,186)	1:17:A:CYS:HB3	1:18:A:THR:H	2	0.22	0.02	0.22
(1,125)	1:14:A:LYS:HA	1:15:A:VAL:H	2	0.18	0.04	0.18
(1,220)	1:11:A:GLN:HA	1:11:A:GLN:H	2	0.15	0.0	0.15
(1,138)	1:5:A:VAL:HA	1:6:A:ASP:H	2	0.14	0.01	0.14
(1,312)	1:55:A:GLY:HA2	1:56:A:LYS:H	2	0.14	0.02	0.14
(1,97)	1:36:A:CYS:HA	1:39:A:CYS:H	2	0.13	0.01	0.13
(1,281)	1:41:A:ALA:H	1:42:A:ILE:H	2	0.13	0.0	0.13
(1,282)	1:34:A:ASN:H	1:37:A:ALA:H	2	0.13	0.03	0.13
(1,354)	1:52:A:LYS:H	1:27:A:SER:H	2	0.12	0.02	0.12
(1,303)	1:10:A:PHE:HA	1:11:A:GLN:H	2	0.12	0.01	0.12
(1,149)	1:7:A:CYS:HA	1:9:A:GLU:H	2	0.11	0.0	0.11
(1,129)	1:15:A:VAL:HB	1:16:A:TYR:H	2	0.1	0.0	0.1
(1,315)	1:16:A:TYR:H	1:17:A:CYS:H	2	0.1	0.0	0.1

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)
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	15	4.62
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	15	4.62
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	15	4.62
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	6	4.45
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	6	4.45
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	6	4.45
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	13	4.11
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	13	4.11
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	13	4.11
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	11	3.96
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	11	3.96
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	11	3.96
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	12	3.93
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	12	3.93
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	12	3.93
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	1	3.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	1	3.86
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	1	3.86
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	19	3.7
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	19	3.7
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	19	3.7
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	20	3.7
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	20	3.7
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	20	3.7
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	16	3.57
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	16	3.57
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	16	3.57
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	3	3.31
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	3	3.31
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	3	3.31
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	5	3.18
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	5	3.18
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	5	3.18
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	8	2.96
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	8	2.96
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	8	2.96
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	17	2.95
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	17	2.95
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	17	2.95
(1,151)	1:16:A:TYR:HA	1:7:A:CYS:H	2	2.93
(1,151)	1:16:A:TYR:HA	1:7:A:CYS:H	7	2.93
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	2	2.92
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	2	2.92
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	2	2.92
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	4	2.91
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	4	2.91
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	4	2.91
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	10	2.9
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	10	2.9
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	10	2.9
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	18	2.8
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	18	2.8
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	18	2.8
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	14	2.72
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	14	2.72
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	14	2.72
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	7	2.45
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	7	2.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	7	2.45
(1,151)	1:16:A:TYR:HA	1:7:A:CYS:H	17	2.26
(1,127)	1:43:A:VAL:HG21	1:16:A:TYR:H	9	1.72
(1,127)	1:43:A:VAL:HG22	1:16:A:TYR:H	9	1.72
(1,127)	1:43:A:VAL:HG23	1:16:A:TYR:H	9	1.72
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	7	1.56
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	10	1.5
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	6	1.44
(1,85)	1:52:A:LYS:HB2	1:53:A:HIS:H	10	1.42
(1,365)	1:43:A:VAL:HG11	1:11:A:GLN:HA	1	1.41
(1,365)	1:43:A:VAL:HG12	1:11:A:GLN:HA	1	1.41
(1,365)	1:43:A:VAL:HG13	1:11:A:GLN:HA	1	1.41
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	2	1.4
(1,85)	1:52:A:LYS:HB2	1:53:A:HIS:H	12	1.36
(1,32)	1:19:A:ARG:HG2	1:20:A:GLU:H	13	1.35
(1,85)	1:52:A:LYS:HB2	1:53:A:HIS:H	15	1.34
(1,41)	1:22:A:ASN:HB2	1:35:A:LYS:H	19	1.34
(1,85)	1:52:A:LYS:HB2	1:53:A:HIS:H	11	1.33
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	3	1.31
(1,32)	1:19:A:ARG:HG2	1:20:A:GLU:H	10	1.3
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	19	1.28
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	11	1.28
(1,105)	1:44:A:LYS:HB2	1:45:A:SER:H	16	1.27
(1,85)	1:52:A:LYS:HB2	1:53:A:HIS:H	8	1.26
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	2	1.25
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	2	1.25
(1,266)	1:44:A:LYS:HB2	1:44:A:LYS:H	16	1.24
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	20	1.24
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	18	1.23
(1,41)	1:22:A:ASN:HB2	1:35:A:LYS:H	1	1.23
(1,37)	1:40:A:LYS:HD2	1:41:A:ALA:H	10	1.23
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	19	1.23
(1,365)	1:43:A:VAL:HG11	1:11:A:GLN:HA	5	1.22
(1,365)	1:43:A:VAL:HG12	1:11:A:GLN:HA	5	1.22
(1,365)	1:43:A:VAL:HG13	1:11:A:GLN:HA	5	1.22
(1,146)	1:7:A:CYS:HB3	1:10:A:PHE:H	19	1.22
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	10	1.22
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	8	1.22
(1,365)	1:43:A:VAL:HG11	1:11:A:GLN:HA	16	1.21
(1,365)	1:43:A:VAL:HG12	1:11:A:GLN:HA	16	1.21
(1,365)	1:43:A:VAL:HG13	1:11:A:GLN:HA	16	1.21
(1,81)	1:50:A:SER:HB3	1:51:A:LEU:H	20	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,41)	1:22:A:ASN:HB2	1:35:A:LYS:H	16	1.21
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	9	1.21
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	14	1.21
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	17	1.21
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	15	1.21
(1,3)	1:5:A:VAL:HG21	1:5:A:VAL:H	8	1.21
(1,3)	1:5:A:VAL:HG22	1:5:A:VAL:H	8	1.21
(1,3)	1:5:A:VAL:HG23	1:5:A:VAL:H	8	1.21
(1,85)	1:52:A:LYS:HB2	1:53:A:HIS:H	3	1.2
(1,85)	1:52:A:LYS:HB2	1:53:A:HIS:H	9	1.2
(1,85)	1:52:A:LYS:HB2	1:53:A:HIS:H	19	1.2
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	1	1.2
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	4	1.2
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	16	1.2
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	18	1.2
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	4	1.2
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	11	1.2
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	13	1.2
(1,15)	1:14:A:LYS:HB3	1:14:A:LYS:H	20	1.2
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	5	1.19
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	10	1.18
(1,3)	1:5:A:VAL:HG21	1:5:A:VAL:H	18	1.18
(1,3)	1:5:A:VAL:HG22	1:5:A:VAL:H	18	1.18
(1,3)	1:5:A:VAL:HG23	1:5:A:VAL:H	18	1.18
(1,218)	1:40:A:LYS:HG3	1:40:A:LYS:H	10	1.17
(1,81)	1:50:A:SER:HB3	1:51:A:LEU:H	16	1.16
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	14	1.16
(1,3)	1:5:A:VAL:HG21	1:5:A:VAL:H	17	1.16
(1,3)	1:5:A:VAL:HG22	1:5:A:VAL:H	17	1.16
(1,3)	1:5:A:VAL:HG23	1:5:A:VAL:H	17	1.16
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	9	1.15
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	18	1.15
(1,146)	1:7:A:CYS:HB3	1:10:A:PHE:H	13	1.14
(1,86)	1:52:A:LYS:HG2	1:53:A:HIS:H	18	1.14
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	3	1.14
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	13	1.14
(1,15)	1:14:A:LYS:HB3	1:14:A:LYS:H	7	1.14
(1,15)	1:14:A:LYS:HB3	1:14:A:LYS:H	8	1.14
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	6	1.13
(1,81)	1:50:A:SER:HB3	1:51:A:LEU:H	13	1.13
(1,41)	1:22:A:ASN:HB2	1:35:A:LYS:H	4	1.13
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	12	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,15)	1:14:A:LYS:HB3	1:14:A:LYS:H	5	1.13
(1,228)	1:39:A:CYS:HB2	1:39:A:CYS:H	19	1.12
(1,185)	1:36:A:CYS:HB3	1:18:A:THR:H	13	1.12
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	12	1.12
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	19	1.12
(1,25)	1:56:A:LYS:HB2	1:57:A:CYS:H	14	1.12
(1,25)	1:56:A:LYS:HB2	1:57:A:CYS:H	20	1.12
(1,15)	1:14:A:LYS:HB3	1:14:A:LYS:H	3	1.12
(1,35)	1:11:A:GLN:HB3	1:11:A:GLN:H	20	1.11
(1,32)	1:19:A:ARG:HG2	1:20:A:GLU:H	6	1.11
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	17	1.11
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	11	1.1
(1,15)	1:14:A:LYS:HB3	1:14:A:LYS:H	9	1.1
(1,146)	1:7:A:CYS:HB3	1:10:A:PHE:H	2	1.09
(1,146)	1:7:A:CYS:HB3	1:10:A:PHE:H	17	1.09
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	8	1.09
(1,205)	1:36:A:CYS:HB3	1:36:A:CYS:H	5	1.08
(1,134)	1:11:A:GLN:HG3	1:12:A:ASP:H	20	1.08
(1,33)	1:52:A:LYS:HG3	1:52:A:LYS:H	19	1.08
(1,25)	1:56:A:LYS:HB2	1:57:A:CYS:H	10	1.08
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	7	1.08
(1,39)	1:11:A:GLN:HG2	1:11:A:GLN:H	17	1.07
(1,33)	1:52:A:LYS:HG3	1:52:A:LYS:H	9	1.07
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	3	1.07
(1,240)	1:7:A:CYS:HB3	1:7:A:CYS:H	6	1.06
(1,228)	1:39:A:CYS:HB2	1:39:A:CYS:H	20	1.06
(1,226)	1:39:A:CYS:HB3	1:39:A:CYS:H	1	1.06
(1,226)	1:39:A:CYS:HB3	1:39:A:CYS:H	16	1.06
(1,205)	1:36:A:CYS:HB3	1:36:A:CYS:H	6	1.06
(1,33)	1:52:A:LYS:HG3	1:52:A:LYS:H	3	1.06
(1,4)	1:48:A:LYS:HD3	1:48:A:LYS:H	19	1.06
(1,365)	1:43:A:VAL:HG11	1:11:A:GLN:HA	18	1.05
(1,365)	1:43:A:VAL:HG12	1:11:A:GLN:HA	18	1.05
(1,365)	1:43:A:VAL:HG13	1:11:A:GLN:HA	18	1.05
(1,41)	1:22:A:ASN:HB2	1:35:A:LYS:H	9	1.05
(1,32)	1:19:A:ARG:HG2	1:20:A:GLU:H	1	1.05
(1,32)	1:19:A:ARG:HG2	1:20:A:GLU:H	3	1.05
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	5	1.05
(1,39)	1:11:A:GLN:HG2	1:11:A:GLN:H	2	1.04
(1,38)	1:40:A:LYS:HB2	1:41:A:ALA:H	2	1.04
(1,4)	1:48:A:LYS:HD3	1:48:A:LYS:H	11	1.04
(1,4)	1:48:A:LYS:HD3	1:48:A:LYS:H	13	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,143)	1:7:A:CYS:HA	1:10:A:PHE:H	1	1.03
(1,41)	1:22:A:ASN:HB2	1:35:A:LYS:H	6	1.03
(1,25)	1:56:A:LYS:HB2	1:57:A:CYS:H	16	1.03
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	1	1.03
(1,3)	1:5:A:VAL:HG21	1:5:A:VAL:H	20	1.03
(1,3)	1:5:A:VAL:HG22	1:5:A:VAL:H	20	1.03
(1,3)	1:5:A:VAL:HG23	1:5:A:VAL:H	20	1.03
(1,365)	1:43:A:VAL:HG11	1:11:A:GLN:HA	4	1.02
(1,365)	1:43:A:VAL:HG12	1:11:A:GLN:HA	4	1.02
(1,365)	1:43:A:VAL:HG13	1:11:A:GLN:HA	4	1.02
(1,205)	1:36:A:CYS:HB3	1:36:A:CYS:H	12	1.02
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	6	1.02
(1,25)	1:56:A:LYS:HB2	1:57:A:CYS:H	17	1.02
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	16	1.01
(1,86)	1:52:A:LYS:HG2	1:53:A:HIS:H	2	1.01
(1,36)	1:56:A:LYS:HB3	1:56:A:LYS:H	2	1.01
(1,36)	1:56:A:LYS:HB3	1:56:A:LYS:H	16	1.01
(1,36)	1:56:A:LYS:HB3	1:56:A:LYS:H	17	1.01
(1,25)	1:56:A:LYS:HB2	1:57:A:CYS:H	4	1.01
(1,36)	1:56:A:LYS:HB3	1:56:A:LYS:H	4	1.0
(1,36)	1:56:A:LYS:HB3	1:56:A:LYS:H	10	1.0
(1,4)	1:48:A:LYS:HD3	1:48:A:LYS:H	14	1.0
(1,3)	1:5:A:VAL:HG21	1:5:A:VAL:H	1	1.0
(1,3)	1:5:A:VAL:HG22	1:5:A:VAL:H	1	1.0
(1,3)	1:5:A:VAL:HG23	1:5:A:VAL:H	1	1.0
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	4	0.99
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	17	0.99
(1,36)	1:56:A:LYS:HB3	1:56:A:LYS:H	9	0.99
(1,25)	1:56:A:LYS:HB2	1:57:A:CYS:H	2	0.99
(1,365)	1:43:A:VAL:HG11	1:11:A:GLN:HA	8	0.98
(1,365)	1:43:A:VAL:HG12	1:11:A:GLN:HA	8	0.98
(1,365)	1:43:A:VAL:HG13	1:11:A:GLN:HA	8	0.98
(1,365)	1:43:A:VAL:HG11	1:11:A:GLN:HA	10	0.98
(1,365)	1:43:A:VAL:HG12	1:11:A:GLN:HA	10	0.98
(1,365)	1:43:A:VAL:HG13	1:11:A:GLN:HA	10	0.98
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	12	0.98
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	20	0.97
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	20	0.97
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	20	0.97
(1,146)	1:7:A:CYS:HB3	1:10:A:PHE:H	7	0.97
(1,134)	1:11:A:GLN:HG3	1:12:A:ASP:H	1	0.97
(1,39)	1:11:A:GLN:HG2	1:11:A:GLN:H	9	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,36)	1:56:A:LYS:HB3	1:56:A:LYS:H	14	0.97
(1,36)	1:56:A:LYS:HB3	1:56:A:LYS:H	20	0.97
(1,86)	1:52:A:LYS:HG2	1:53:A:HIS:H	5	0.96
(1,16)	1:40:A:LYS:HB2	1:43:A:VAL:H	16	0.96
(1,4)	1:48:A:LYS:HD3	1:48:A:LYS:H	3	0.96
(1,3)	1:5:A:VAL:HG21	1:5:A:VAL:H	3	0.96
(1,3)	1:5:A:VAL:HG22	1:5:A:VAL:H	3	0.96
(1,3)	1:5:A:VAL:HG23	1:5:A:VAL:H	3	0.96
(1,218)	1:40:A:LYS:HG3	1:40:A:LYS:H	1	0.94
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	13	0.94
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	1	0.94
(1,37)	1:40:A:LYS:HD2	1:41:A:ALA:H	2	0.94
(1,33)	1:52:A:LYS:HG3	1:52:A:LYS:H	8	0.94
(1,13)	1:21:A:SER:HB2	1:22:A:ASN:H	18	0.94
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	9	0.93
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	9	0.93
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	9	0.93
(1,240)	1:7:A:CYS:HB3	1:7:A:CYS:H	11	0.93
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	14	0.93
(1,230)	1:4:A:GLN:HB3	1:4:A:GLN:H	19	0.92
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	1	0.92
(1,42)	1:3:A:GLY:HA3	1:4:A:GLN:H	1	0.92
(1,40)	1:56:A:LYS:HG3	1:56:A:LYS:H	10	0.92
(1,33)	1:52:A:LYS:HG3	1:52:A:LYS:H	12	0.92
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	14	0.91
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	14	0.91
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	14	0.91
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	14	0.91
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	14	0.91
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	14	0.91
(1,86)	1:52:A:LYS:HG2	1:53:A:HIS:H	14	0.91
(1,41)	1:22:A:ASN:HB2	1:35:A:LYS:H	2	0.91
(1,365)	1:43:A:VAL:HG11	1:11:A:GLN:HA	14	0.9
(1,365)	1:43:A:VAL:HG12	1:11:A:GLN:HA	14	0.9
(1,365)	1:43:A:VAL:HG13	1:11:A:GLN:HA	14	0.9
(1,240)	1:7:A:CYS:HB3	1:7:A:CYS:H	18	0.9
(1,218)	1:40:A:LYS:HG3	1:40:A:LYS:H	16	0.9
(1,134)	1:11:A:GLN:HG3	1:12:A:ASP:H	4	0.9
(1,86)	1:52:A:LYS:HG2	1:53:A:HIS:H	7	0.9
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	4	0.9
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	5	0.9
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	20	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,21)	1:44:A:LYS:HG3	1:44:A:LYS:H	7	0.9
(1,10)	1:4:A:GLN:HG3	1:4:A:GLN:H	1	0.9
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	4	0.89
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	4	0.89
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	4	0.89
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	4	0.89
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	4	0.89
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	4	0.89
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	6	0.89
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	6	0.89
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	6	0.89
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	17	0.89
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	17	0.89
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	17	0.89
(1,119)	1:10:A:PHE:HB3	1:11:A:GLN:H	3	0.89
(1,86)	1:52:A:LYS:HG2	1:53:A:HIS:H	13	0.89
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	16	0.89
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	3	0.88
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	3	0.88
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	3	0.88
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	18	0.88
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	18	0.88
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	18	0.88
(1,240)	1:7:A:CYS:HB3	1:7:A:CYS:H	15	0.88
(1,185)	1:36:A:CYS:HB3	1:18:A:THR:H	20	0.88
(1,134)	1:11:A:GLN:HG3	1:12:A:ASP:H	13	0.88
(1,134)	1:11:A:GLN:HG3	1:12:A:ASP:H	16	0.88
(1,86)	1:52:A:LYS:HG2	1:53:A:HIS:H	6	0.88
(1,86)	1:52:A:LYS:HG2	1:53:A:HIS:H	17	0.88
(1,42)	1:3:A:GLY:HA3	1:4:A:GLN:H	15	0.88
(1,25)	1:56:A:LYS:HB2	1:57:A:CYS:H	9	0.88
(1,21)	1:44:A:LYS:HG3	1:44:A:LYS:H	10	0.88
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	14	0.87
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	14	0.87
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	14	0.87
(1,240)	1:7:A:CYS:HB3	1:7:A:CYS:H	16	0.87
(1,230)	1:4:A:GLN:HB3	1:4:A:GLN:H	4	0.87
(1,42)	1:3:A:GLY:HA3	1:4:A:GLN:H	12	0.87
(1,38)	1:40:A:LYS:HB2	1:41:A:ALA:H	3	0.87
(1,9)	1:9:A:GLU:HB3	1:10:A:PHE:H	7	0.87
(1,9)	1:9:A:GLU:HB3	1:10:A:PHE:H	13	0.87
(1,9)	1:9:A:GLU:HB3	1:10:A:PHE:H	20	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	7	0.86
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	7	0.86
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	7	0.86
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	12	0.86
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	12	0.86
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	12	0.86
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	19	0.86
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	19	0.86
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	19	0.86
(1,230)	1:4:A:GLN:HB3	1:4:A:GLN:H	8	0.86
(1,119)	1:10:A:PHE:HB3	1:11:A:GLN:H	15	0.86
(1,86)	1:52:A:LYS:HG2	1:53:A:HIS:H	1	0.86
(1,40)	1:56:A:LYS:HG3	1:56:A:LYS:H	5	0.86
(1,33)	1:52:A:LYS:HG3	1:52:A:LYS:H	15	0.86
(1,31)	1:52:A:LYS:HB3	1:52:A:LYS:H	14	0.86
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	7	0.85
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	7	0.85
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	7	0.85
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	7	0.85
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	7	0.85
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	7	0.85
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	13	0.85
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	13	0.85
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	13	0.85
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	15	0.85
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	15	0.85
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	15	0.85
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	15	0.85
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	5	0.85
(1,42)	1:3:A:GLY:HA3	1:4:A:GLN:H	11	0.85
(1,40)	1:56:A:LYS:HG3	1:56:A:LYS:H	6	0.85
(1,40)	1:56:A:LYS:HG3	1:56:A:LYS:H	8	0.85
(1,33)	1:52:A:LYS:HG3	1:52:A:LYS:H	11	0.85
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	14	0.85
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	11	0.84
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	11	0.84
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	11	0.84
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	18	0.84
(1,42)	1:3:A:GLY:HA3	1:4:A:GLN:H	20	0.84
(1,40)	1:56:A:LYS:HG3	1:56:A:LYS:H	3	0.84
(1,40)	1:56:A:LYS:HG3	1:56:A:LYS:H	12	0.84
(1,40)	1:56:A:LYS:HG3	1:56:A:LYS:H	19	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,38)	1:40:A:LYS:HB2	1:41:A:ALA:H	10	0.84
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	8	0.84
(1,4)	1:48:A:LYS:HD3	1:48:A:LYS:H	8	0.84
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	8	0.83
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	8	0.83
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	8	0.83
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	16	0.83
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	16	0.83
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	16	0.83
(1,185)	1:36:A:CYS:HB3	1:18:A:THR:H	12	0.83
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	13	0.83
(1,40)	1:56:A:LYS:HG3	1:56:A:LYS:H	15	0.83
(1,31)	1:52:A:LYS:HB3	1:52:A:LYS:H	5	0.83
(1,31)	1:52:A:LYS:HB3	1:52:A:LYS:H	6	0.83
(1,31)	1:52:A:LYS:HB3	1:52:A:LYS:H	13	0.83
(1,31)	1:52:A:LYS:HB3	1:52:A:LYS:H	17	0.83
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	10	0.82
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	10	0.82
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	10	0.82
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	13	0.82
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	13	0.82
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	13	0.82
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	17	0.82
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	17	0.82
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	17	0.82
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	10	0.82
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	10	0.82
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	10	0.82
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	13	0.82
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	13	0.82
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	13	0.82
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	17	0.82
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	17	0.82
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	17	0.82
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	2	0.82
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	2	0.82
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	2	0.82
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	5	0.82
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	5	0.82
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	5	0.82
(1,240)	1:7:A:CYS:HB3	1:7:A:CYS:H	1	0.82
(1,240)	1:7:A:CYS:HB3	1:7:A:CYS:H	8	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,155)	1:16:A:TYR:HB3	1:17:A:CYS:H	4	0.82
(1,155)	1:16:A:TYR:HB3	1:17:A:CYS:H	18	0.82
(1,40)	1:56:A:LYS:HG3	1:56:A:LYS:H	1	0.82
(1,31)	1:52:A:LYS:HB3	1:52:A:LYS:H	1	0.82
(1,31)	1:52:A:LYS:HB3	1:52:A:LYS:H	2	0.82
(1,31)	1:52:A:LYS:HB3	1:52:A:LYS:H	4	0.82
(1,31)	1:52:A:LYS:HB3	1:52:A:LYS:H	7	0.82
(1,31)	1:52:A:LYS:HB3	1:52:A:LYS:H	16	0.82
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	8	0.81
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	8	0.81
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	8	0.81
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	8	0.81
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	8	0.81
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	8	0.81
(1,155)	1:16:A:TYR:HB3	1:17:A:CYS:H	10	0.81
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	20	0.81
(1,40)	1:56:A:LYS:HG3	1:56:A:LYS:H	7	0.81
(1,40)	1:56:A:LYS:HG3	1:56:A:LYS:H	11	0.81
(1,31)	1:52:A:LYS:HB3	1:52:A:LYS:H	18	0.81
(1,13)	1:21:A:SER:HB2	1:22:A:ASN:H	6	0.81
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	2	0.8
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	2	0.8
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	2	0.8
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	2	0.8
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	2	0.8
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	2	0.8
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	1	0.8
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	1	0.8
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	1	0.8
(1,155)	1:16:A:TYR:HB3	1:17:A:CYS:H	1	0.8
(1,155)	1:16:A:TYR:HB3	1:17:A:CYS:H	8	0.8
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	15	0.8
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	7	0.8
(1,40)	1:56:A:LYS:HG3	1:56:A:LYS:H	18	0.8
(1,23)	1:56:A:LYS:HG2	1:57:A:CYS:H	12	0.8
(1,21)	1:44:A:LYS:HG3	1:44:A:LYS:H	2	0.8
(1,21)	1:44:A:LYS:HG3	1:44:A:LYS:H	13	0.8
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	11	0.79
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	11	0.79
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	11	0.79
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	11	0.79
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	11	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	11	0.79
(1,240)	1:7:A:CYS:HB3	1:7:A:CYS:H	4	0.79
(1,155)	1:16:A:TYR:HB3	1:17:A:CYS:H	5	0.79
(1,31)	1:52:A:LYS:HB3	1:52:A:LYS:H	20	0.79
(1,28)	1:19:A:ARG:HG3	1:19:A:ARG:H	9	0.79
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	12	0.79
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	10	0.78
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	10	0.78
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	10	0.78
(1,155)	1:16:A:TYR:HB3	1:17:A:CYS:H	11	0.78
(1,147)	1:43:A:VAL:HG11	1:10:A:PHE:H	20	0.78
(1,147)	1:43:A:VAL:HG12	1:10:A:PHE:H	20	0.78
(1,147)	1:43:A:VAL:HG13	1:10:A:PHE:H	20	0.78
(1,23)	1:56:A:LYS:HG2	1:57:A:CYS:H	15	0.78
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	19	0.77
(1,337)	1:49:A:ILE:HG21	1:49:A:ILE:H	4	0.77
(1,337)	1:49:A:ILE:HG22	1:49:A:ILE:H	4	0.77
(1,337)	1:49:A:ILE:HG23	1:49:A:ILE:H	4	0.77
(1,280)	1:24:A:HIS:HB2	1:24:A:HIS:H	4	0.77
(1,240)	1:7:A:CYS:HB3	1:7:A:CYS:H	14	0.77
(1,203)	1:40:A:LYS:HB3	1:40:A:LYS:H	11	0.77
(1,155)	1:16:A:TYR:HB3	1:17:A:CYS:H	14	0.77
(1,155)	1:16:A:TYR:HB3	1:17:A:CYS:H	16	0.77
(1,32)	1:19:A:ARG:HG2	1:20:A:GLU:H	18	0.77
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	7	0.77
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	15	0.77
(1,9)	1:9:A:GLU:HB3	1:10:A:PHE:H	12	0.77
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	12	0.76
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	12	0.76
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	12	0.76
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	20	0.76
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	20	0.76
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	20	0.76
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	12	0.76
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	12	0.76
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	12	0.76
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	20	0.76
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	20	0.76
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	20	0.76
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	8	0.76
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	9	0.76
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	19	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,28)	1:19:A:ARG:HG3	1:19:A:ARG:H	7	0.76
(1,23)	1:56:A:LYS:HG2	1:57:A:CYS:H	18	0.76
(1,13)	1:21:A:SER:HB2	1:22:A:ASN:H	19	0.76
(1,13)	1:21:A:SER:HB2	1:22:A:ASN:H	20	0.76
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	19	0.75
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	19	0.75
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	19	0.75
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	19	0.75
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	19	0.75
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	19	0.75
(1,280)	1:24:A:HIS:HB2	1:24:A:HIS:H	15	0.75
(1,240)	1:7:A:CYS:HB3	1:7:A:CYS:H	10	0.75
(1,240)	1:7:A:CYS:HB3	1:7:A:CYS:H	12	0.75
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	2	0.75
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	13	0.75
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	19	0.75
(1,21)	1:44:A:LYS:HG3	1:44:A:LYS:H	17	0.75
(1,13)	1:21:A:SER:HB2	1:22:A:ASN:H	4	0.75
(1,13)	1:21:A:SER:HB2	1:22:A:ASN:H	14	0.75
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	6	0.74
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	6	0.74
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	6	0.74
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	6	0.74
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	6	0.74
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	6	0.74
(1,119)	1:10:A:PHE:HB3	1:11:A:GLN:H	11	0.74
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	11	0.74
(1,62)	1:36:A:CYS:HB3	1:37:A:ALA:H	6	0.74
(1,38)	1:40:A:LYS:HB2	1:41:A:ALA:H	6	0.74
(1,13)	1:21:A:SER:HB2	1:22:A:ASN:H	10	0.74
(1,13)	1:21:A:SER:HB2	1:22:A:ASN:H	15	0.74
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	12	0.73
(1,62)	1:36:A:CYS:HB3	1:37:A:ALA:H	12	0.73
(1,13)	1:21:A:SER:HB2	1:22:A:ASN:H	1	0.73
(1,13)	1:21:A:SER:HB2	1:22:A:ASN:H	5	0.73
(1,155)	1:16:A:TYR:HB3	1:17:A:CYS:H	3	0.72
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	2	0.72
(1,42)	1:3:A:GLY:HA3	1:4:A:GLN:H	6	0.72
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	17	0.72
(1,21)	1:44:A:LYS:HG3	1:44:A:LYS:H	8	0.72
(1,13)	1:21:A:SER:HB2	1:22:A:ASN:H	16	0.72
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	4	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	15	0.71
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	15	0.71
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	15	0.71
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	15	0.71
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	15	0.71
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	15	0.71
(1,240)	1:7:A:CYS:HB3	1:7:A:CYS:H	9	0.71
(1,183)	1:16:A:TYR:HB2	1:17:A:CYS:H	7	0.71
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	13	0.71
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	18	0.71
(1,21)	1:44:A:LYS:HG3	1:44:A:LYS:H	1	0.71
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	3	0.7
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	3	0.7
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	3	0.7
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	3	0.7
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	3	0.7
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	3	0.7
(1,185)	1:36:A:CYS:HB3	1:18:A:THR:H	5	0.7
(1,176)	1:24:A:HIS:HB3	1:25:A:CYS:H	4	0.7
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	17	0.7
(1,42)	1:3:A:GLY:HA3	1:4:A:GLN:H	5	0.7
(1,27)	1:40:A:LYS:HG2	1:41:A:ALA:H	9	0.7
(1,13)	1:21:A:SER:HB2	1:22:A:ASN:H	3	0.7
(1,13)	1:21:A:SER:HB2	1:22:A:ASN:H	11	0.7
(1,5)	1:48:A:LYS:HG3	1:48:A:LYS:H	20	0.7
(1,176)	1:24:A:HIS:HB3	1:25:A:CYS:H	15	0.69
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	9	0.69
(1,185)	1:36:A:CYS:HB3	1:18:A:THR:H	6	0.68
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	3	0.68
(1,69)	1:48:A:LYS:HB2	1:49:A:ILE:H	20	0.68
(1,62)	1:36:A:CYS:HB3	1:37:A:ALA:H	5	0.68
(1,28)	1:19:A:ARG:HG3	1:19:A:ARG:H	12	0.68
(1,21)	1:44:A:LYS:HG3	1:44:A:LYS:H	12	0.68
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	3	0.68
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	9	0.67
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	9	0.67
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	9	0.67
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	9	0.67
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	9	0.67
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	9	0.67
(1,86)	1:52:A:LYS:HG2	1:53:A:HIS:H	10	0.67
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	3	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	14	0.67
(1,41)	1:22:A:ASN:HB2	1:35:A:LYS:H	20	0.67
(1,13)	1:21:A:SER:HB2	1:22:A:ASN:H	2	0.67
(1,13)	1:21:A:SER:HB2	1:22:A:ASN:H	7	0.67
(1,12)	1:14:A:LYS:HG2	1:15:A:VAL:H	9	0.67
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	1	0.67
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	8	0.67
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	10	0.67
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	18	0.67
(1,257)	1:16:A:TYR:HB3	1:16:A:TYR:H	20	0.66
(1,134)	1:11:A:GLN:HG3	1:12:A:ASP:H	10	0.66
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	4	0.66
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	14	0.66
(1,28)	1:19:A:ARG:HG3	1:19:A:ARG:H	16	0.66
(1,9)	1:9:A:GLU:HB3	1:10:A:PHE:H	19	0.66
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	10	0.65
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	6	0.65
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	6	0.65
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	11	0.65
(1,39)	1:11:A:GLN:HG2	1:11:A:GLN:H	7	0.65
(1,28)	1:19:A:ARG:HG3	1:19:A:ARG:H	4	0.65
(1,21)	1:44:A:LYS:HG3	1:44:A:LYS:H	19	0.65
(1,9)	1:9:A:GLU:HB3	1:10:A:PHE:H	11	0.65
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	5	0.65
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	14	0.65
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	7	0.64
(1,134)	1:11:A:GLN:HG3	1:12:A:ASP:H	5	0.64
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	17	0.64
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	20	0.64
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	12	0.64
(1,60)	1:36:A:CYS:HB2	1:37:A:ALA:H	2	0.64
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	11	0.64
(1,21)	1:44:A:LYS:HG3	1:44:A:LYS:H	18	0.64
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	6	0.64
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	16	0.64
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	6	0.63
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	8	0.63
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	15	0.63
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	2	0.63
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	16	0.63
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	19	0.63
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	14	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,28)	1:19:A:ARG:HG3	1:19:A:ARG:H	5	0.63
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	15	0.63
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	20	0.62
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	4	0.62
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	5	0.62
(1,240)	1:7:A:CYS:HB3	1:7:A:CYS:H	5	0.62
(1,147)	1:43:A:VAL:HG11	1:10:A:PHE:H	1	0.62
(1,147)	1:43:A:VAL:HG12	1:10:A:PHE:H	1	0.62
(1,147)	1:43:A:VAL:HG13	1:10:A:PHE:H	1	0.62
(1,146)	1:7:A:CYS:HB3	1:10:A:PHE:H	20	0.62
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	5	0.62
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	13	0.62
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	11	0.62
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	2	0.61
(1,204)	1:40:A:LYS:HD2	1:40:A:LYS:H	2	0.61
(1,185)	1:36:A:CYS:HB3	1:18:A:THR:H	16	0.61
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	6	0.61
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	8	0.61
(1,21)	1:44:A:LYS:HG3	1:44:A:LYS:H	14	0.61
(1,12)	1:14:A:LYS:HG2	1:15:A:VAL:H	8	0.61
(1,9)	1:9:A:GLU:HB3	1:10:A:PHE:H	3	0.61
(1,9)	1:9:A:GLU:HB3	1:10:A:PHE:H	10	0.61
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	13	0.61
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	13	0.6
(1,205)	1:36:A:CYS:HB3	1:36:A:CYS:H	1	0.6
(1,60)	1:36:A:CYS:HB2	1:37:A:ALA:H	19	0.6
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	10	0.6
(1,42)	1:3:A:GLY:HA3	1:4:A:GLN:H	8	0.6
(1,21)	1:44:A:LYS:HG3	1:44:A:LYS:H	3	0.6
(1,21)	1:44:A:LYS:HG3	1:44:A:LYS:H	11	0.6
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	5	0.59
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	5	0.59
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	5	0.59
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	5	0.59
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	5	0.59
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	5	0.59
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	1	0.59
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	16	0.59
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	19	0.59
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	3	0.59
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	5	0.59
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	9	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,23)	1:56:A:LYS:HG2	1:57:A:CYS:H	3	0.59
(1,23)	1:56:A:LYS:HG2	1:57:A:CYS:H	11	0.59
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	12	0.59
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	17	0.59
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	12	0.58
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	4	0.58
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	8	0.58
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	13	0.58
(1,39)	1:11:A:GLN:HG2	1:11:A:GLN:H	8	0.58
(1,39)	1:11:A:GLN:HG2	1:11:A:GLN:H	18	0.58
(1,37)	1:40:A:LYS:HD2	1:41:A:ALA:H	5	0.58
(1,23)	1:56:A:LYS:HG2	1:57:A:CYS:H	8	0.58
(1,228)	1:39:A:CYS:HB2	1:39:A:CYS:H	13	0.57
(1,107)	1:41:A:ALA:HB1	1:44:A:LYS:H	6	0.57
(1,107)	1:41:A:ALA:HB2	1:44:A:LYS:H	6	0.57
(1,107)	1:41:A:ALA:HB3	1:44:A:LYS:H	6	0.57
(1,107)	1:41:A:ALA:HB1	1:44:A:LYS:H	13	0.57
(1,107)	1:41:A:ALA:HB2	1:44:A:LYS:H	13	0.57
(1,107)	1:41:A:ALA:HB3	1:44:A:LYS:H	13	0.57
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	7	0.57
(1,60)	1:36:A:CYS:HB2	1:37:A:ALA:H	9	0.57
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	16	0.57
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	19	0.57
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	4	0.57
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	16	0.57
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	20	0.57
(1,23)	1:56:A:LYS:HG2	1:57:A:CYS:H	5	0.57
(1,23)	1:56:A:LYS:HG2	1:57:A:CYS:H	19	0.57
(1,21)	1:44:A:LYS:HG3	1:44:A:LYS:H	5	0.57
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	9	0.56
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	15	0.56
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	7	0.56
(1,60)	1:36:A:CYS:HB2	1:37:A:ALA:H	7	0.56
(1,60)	1:36:A:CYS:HB2	1:37:A:ALA:H	17	0.56
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	20	0.56
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	2	0.56
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	5	0.56
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	14	0.56
(1,23)	1:56:A:LYS:HG2	1:57:A:CYS:H	1	0.56
(1,23)	1:56:A:LYS:HG2	1:57:A:CYS:H	7	0.56
(1,23)	1:56:A:LYS:HG2	1:57:A:CYS:H	13	0.56
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	18	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	18	0.55
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	18	0.55
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	18	0.55
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	18	0.55
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	18	0.55
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	3	0.55
(1,107)	1:41:A:ALA:HB1	1:44:A:LYS:H	19	0.55
(1,107)	1:41:A:ALA:HB2	1:44:A:LYS:H	19	0.55
(1,107)	1:41:A:ALA:HB3	1:44:A:LYS:H	19	0.55
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	18	0.55
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	2	0.55
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	1	0.55
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	7	0.55
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	6	0.55
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	18	0.55
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	7	0.55
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	1	0.54
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	11	0.54
(1,250)	1:16:A:TYR:HB2	1:16:A:TYR:H	9	0.54
(1,250)	1:16:A:TYR:HB2	1:16:A:TYR:H	19	0.54
(1,205)	1:36:A:CYS:HB3	1:36:A:CYS:H	16	0.54
(1,155)	1:16:A:TYR:HB3	1:17:A:CYS:H	6	0.54
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	11	0.54
(1,66)	1:36:A:CYS:HB2	1:36:A:CYS:H	19	0.54
(1,42)	1:3:A:GLY:HA3	1:4:A:GLN:H	19	0.54
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	1	0.54
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	7	0.54
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	17	0.54
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	9	0.54
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	1	0.53
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	1	0.53
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	1	0.53
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	1	0.53
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	1	0.53
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	1	0.53
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	15	0.53
(1,257)	1:16:A:TYR:HB3	1:16:A:TYR:H	15	0.53
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	9	0.53
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	13	0.53
(1,119)	1:10:A:PHE:HB3	1:11:A:GLN:H	6	0.53
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	13	0.53
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	19	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,82)	1:25:A:CYS:HB2	1:53:A:HIS:H	1	0.52
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	6	0.52
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	15	0.52
(1,32)	1:19:A:ARG:HG2	1:20:A:GLU:H	19	0.52
(1,23)	1:56:A:LYS:HG2	1:57:A:CYS:H	6	0.52
(1,9)	1:9:A:GLU:HB3	1:10:A:PHE:H	17	0.52
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	17	0.51
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	7	0.51
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	17	0.51
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	18	0.51
(1,250)	1:16:A:TYR:HB2	1:16:A:TYR:H	8	0.51
(1,61)	1:17:A:CYS:HB2	1:37:A:ALA:H	13	0.51
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	10	0.51
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	18	0.51
(1,32)	1:19:A:ARG:HG2	1:20:A:GLU:H	14	0.51
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	14	0.5
(1,250)	1:16:A:TYR:HB2	1:16:A:TYR:H	4	0.5
(1,250)	1:16:A:TYR:HB2	1:16:A:TYR:H	13	0.5
(1,107)	1:41:A:ALA:HB1	1:44:A:LYS:H	9	0.5
(1,107)	1:41:A:ALA:HB2	1:44:A:LYS:H	9	0.5
(1,107)	1:41:A:ALA:HB3	1:44:A:LYS:H	9	0.5
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	10	0.5
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	17	0.5
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	5	0.49
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	18	0.49
(1,257)	1:16:A:TYR:HB3	1:16:A:TYR:H	7	0.49
(1,250)	1:16:A:TYR:HB2	1:16:A:TYR:H	1	0.49
(1,250)	1:16:A:TYR:HB2	1:16:A:TYR:H	5	0.49
(1,250)	1:16:A:TYR:HB2	1:16:A:TYR:H	10	0.49
(1,204)	1:40:A:LYS:HD2	1:40:A:LYS:H	5	0.49
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	12	0.49
(1,42)	1:3:A:GLY:HA3	1:4:A:GLN:H	16	0.49
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	2	0.49
(1,6)	1:36:A:CYS:HA	1:36:A:CYS:H	20	0.49
(1,251)	1:32:A:TYR:HB3	1:32:A:TYR:H	10	0.48
(1,250)	1:16:A:TYR:HB2	1:16:A:TYR:H	18	0.48
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	11	0.48
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	15	0.48
(1,134)	1:11:A:GLN:HG3	1:12:A:ASP:H	14	0.48
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	11	0.48
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	3	0.47
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	8	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,276)	1:28:A:ASP:HB3	1:28:A:ASP:H	4	0.47
(1,257)	1:16:A:TYR:HB3	1:16:A:TYR:H	17	0.47
(1,250)	1:16:A:TYR:HB2	1:16:A:TYR:H	16	0.47
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	14	0.47
(1,132)	1:12:A:ASP:HB2	1:15:A:VAL:H	7	0.47
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	6	0.47
(1,34)	1:49:A:ILE:HG12	1:50:A:SER:H	10	0.47
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	19	0.47
(1,28)	1:19:A:ARG:HG3	1:19:A:ARG:H	2	0.47
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	2	0.46
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	4	0.46
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	9	0.46
(1,250)	1:16:A:TYR:HB2	1:16:A:TYR:H	3	0.46
(1,250)	1:16:A:TYR:HB2	1:16:A:TYR:H	11	0.46
(1,205)	1:36:A:CYS:HB3	1:36:A:CYS:H	15	0.46
(1,185)	1:36:A:CYS:HB3	1:18:A:THR:H	3	0.46
(1,60)	1:36:A:CYS:HB2	1:37:A:ALA:H	13	0.46
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	17	0.46
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	3	0.46
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	12	0.46
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	3	0.46
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	10	0.46
(1,1)	1:21:A:SER:HB3	1:21:A:SER:H	6	0.46
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	12	0.45
(1,250)	1:16:A:TYR:HB2	1:16:A:TYR:H	14	0.45
(1,234)	1:14:A:LYS:HG2	1:14:A:LYS:H	9	0.45
(1,205)	1:36:A:CYS:HB3	1:36:A:CYS:H	3	0.45
(1,205)	1:36:A:CYS:HB3	1:36:A:CYS:H	18	0.45
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	3	0.45
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	4	0.45
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	10	0.45
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	18	0.45
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	8	0.45
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	17	0.45
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	5	0.45
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	9	0.45
(1,34)	1:49:A:ILE:HG12	1:50:A:SER:H	8	0.45
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	9	0.45
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	14	0.44
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	16	0.44
(1,320)	1:11:A:GLN:H	1:10:A:PHE:H	13	0.44
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	3	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,276)	1:28:A:ASP:HB3	1:28:A:ASP:H	10	0.44
(1,144)	1:8:A:GLY:HA2	1:10:A:PHE:H	3	0.44
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	5	0.44
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	9	0.44
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	19	0.44
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	19	0.44
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	15	0.44
(1,10)	1:4:A:GLN:HG3	1:4:A:GLN:H	19	0.44
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	7	0.44
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	8	0.43
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	15	0.43
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	19	0.43
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	6	0.43
(1,119)	1:10:A:PHE:HB3	1:11:A:GLN:H	12	0.43
(1,107)	1:41:A:ALA:HB1	1:44:A:LYS:H	15	0.43
(1,107)	1:41:A:ALA:HB2	1:44:A:LYS:H	15	0.43
(1,107)	1:41:A:ALA:HB3	1:44:A:LYS:H	15	0.43
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	2	0.43
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	3	0.43
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	18	0.43
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	4	0.43
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	14	0.43
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	20	0.43
(1,5)	1:48:A:LYS:HG3	1:48:A:LYS:H	3	0.43
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	9	0.42
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	7	0.42
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	11	0.42
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	13	0.42
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	17	0.42
(1,185)	1:36:A:CYS:HB3	1:18:A:THR:H	18	0.42
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	8	0.42
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	16	0.42
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	17	0.42
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	1	0.42
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	12	0.42
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	11	0.42
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	12	0.42
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	15	0.42
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	12	0.42
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	7	0.41
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	17	0.41
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	9	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	1	0.41
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	2	0.41
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	6	0.41
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	7	0.41
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	13	0.41
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	11	0.41
(1,66)	1:36:A:CYS:HB2	1:36:A:CYS:H	7	0.41
(1,66)	1:36:A:CYS:HB2	1:36:A:CYS:H	17	0.41
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	19	0.41
(1,9)	1:9:A:GLU:HB3	1:10:A:PHE:H	2	0.41
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	1	0.41
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	13	0.41
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	2	0.4
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	3	0.4
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	4	0.4
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	5	0.4
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	6	0.4
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	11	0.4
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	5	0.4
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	6	0.4
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	10	0.4
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	18	0.4
(1,242)	1:7:A:CYS:HB2	1:7:A:CYS:H	17	0.4
(1,205)	1:36:A:CYS:HB3	1:36:A:CYS:H	4	0.4
(1,205)	1:36:A:CYS:HB3	1:36:A:CYS:H	8	0.4
(1,205)	1:36:A:CYS:HB3	1:36:A:CYS:H	14	0.4
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	1	0.4
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	20	0.4
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	9	0.4
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	4	0.4
(1,30)	1:52:A:LYS:HA	1:52:A:LYS:H	8	0.4
(1,29)	1:52:A:LYS:HD3	1:52:A:LYS:H	19	0.4
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	18	0.4
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	2	0.4
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	13	0.39
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	15	0.39
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	19	0.39
(1,310)	1:55:A:GLY:HA3	1:56:A:LYS:H	12	0.39
(1,250)	1:16:A:TYR:HB2	1:16:A:TYR:H	6	0.39
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	7	0.39
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	14	0.39
(1,33)	1:52:A:LYS:HG3	1:52:A:LYS:H	4	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,10)	1:4:A:GLN:HG3	1:4:A:GLN:H	15	0.39
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	3	0.39
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	13	0.39
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	15	0.39
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	16	0.39
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	10	0.38
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	12	0.38
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	18	0.38
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	4	0.38
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	14	0.38
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	4	0.38
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	4	0.38
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	4	0.38
(1,146)	1:7:A:CYS:HB3	1:10:A:PHE:H	10	0.38
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	12	0.38
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	14	0.38
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	5	0.38
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	8	0.38
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	10	0.38
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	5	0.38
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	1	0.37
(1,310)	1:55:A:GLY:HA3	1:56:A:LYS:H	2	0.37
(1,257)	1:16:A:TYR:HB3	1:16:A:TYR:H	2	0.37
(1,242)	1:7:A:CYS:HB2	1:7:A:CYS:H	2	0.37
(1,205)	1:36:A:CYS:HB3	1:36:A:CYS:H	10	0.37
(1,185)	1:36:A:CYS:HB3	1:18:A:THR:H	8	0.37
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	10	0.37
(1,72)	1:48:A:LYS:HB3	1:49:A:ILE:H	8	0.37
(1,53)	1:34:A:ASN:HB3	1:35:A:LYS:H	2	0.37
(1,34)	1:49:A:ILE:HG12	1:50:A:SER:H	14	0.37
(1,32)	1:19:A:ARG:HG2	1:20:A:GLU:H	15	0.37
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	17	0.37
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	8	0.36
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	16	0.36
(1,363)	1:47:A:GLY:HA3	1:47:A:GLY:H	20	0.36
(1,338)	1:10:A:PHE:HB3	1:10:A:PHE:H	10	0.36
(1,320)	1:11:A:GLN:H	1:10:A:PHE:H	19	0.36
(1,226)	1:39:A:CYS:HB3	1:39:A:CYS:H	5	0.36
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	7	0.36
(1,144)	1:8:A:GLY:HA2	1:10:A:PHE:H	9	0.36
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	3	0.36
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	6	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	17	0.36
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	19	0.36
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	6	0.36
(1,320)	1:11:A:GLN:H	1:10:A:PHE:H	6	0.35
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	16	0.35
(1,309)	1:52:A:LYS:HA	1:53:A:HIS:H	20	0.35
(1,134)	1:11:A:GLN:HG3	1:12:A:ASP:H	12	0.35
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	4	0.35
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	5	0.35
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	15	0.35
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	4	0.35
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	8	0.35
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	9	0.35
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	18	0.35
(1,320)	1:11:A:GLN:H	1:10:A:PHE:H	20	0.34
(1,242)	1:7:A:CYS:HB2	1:7:A:CYS:H	7	0.34
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	2	0.34
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	2	0.34
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	2	0.34
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	20	0.34
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	20	0.34
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	20	0.34
(1,205)	1:36:A:CYS:HB3	1:36:A:CYS:H	11	0.34
(1,183)	1:16:A:TYR:HB2	1:17:A:CYS:H	17	0.34
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	1	0.34
(1,151)	1:16:A:TYR:HA	1:7:A:CYS:H	13	0.34
(1,151)	1:16:A:TYR:HA	1:7:A:CYS:H	19	0.34
(1,143)	1:7:A:CYS:HA	1:10:A:PHE:H	5	0.34
(1,116)	1:10:A:PHE:HA	1:12:A:ASP:H	2	0.34
(1,79)	1:50:A:SER:HB2	1:51:A:LEU:H	18	0.34
(1,42)	1:3:A:GLY:HA3	1:4:A:GLN:H	9	0.34
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	18	0.34
(1,21)	1:44:A:LYS:HG3	1:44:A:LYS:H	16	0.34
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	2	0.34
(1,8)	1:35:A:LYS:HA	1:35:A:LYS:H	7	0.34
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	8	0.33
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	8	0.33
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	8	0.33
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	8	0.33
(1,121)	1:10:A:PHE:HB2	1:11:A:GLN:H	11	0.33
(1,115)	1:11:A:GLN:HB2	1:12:A:ASP:H	6	0.33
(1,32)	1:19:A:ARG:HG2	1:20:A:GLU:H	11	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	9	0.33
(1,1)	1:21:A:SER:HB3	1:21:A:SER:H	1	0.33
(1,1)	1:21:A:SER:HB3	1:21:A:SER:H	10	0.33
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	3	0.32
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	4	0.32
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	6	0.32
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	14	0.32
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	15	0.32
(1,310)	1:55:A:GLY:HA3	1:56:A:LYS:H	4	0.32
(1,310)	1:55:A:GLY:HA3	1:56:A:LYS:H	16	0.32
(1,299)	1:50:A:SER:HB2	1:50:A:SER:H	20	0.32
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	18	0.32
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	4	0.32
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	14	0.32
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	3	0.32
(1,60)	1:36:A:CYS:HB2	1:37:A:ALA:H	20	0.32
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	13	0.32
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	17	0.32
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	11	0.32
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	19	0.32
(1,1)	1:21:A:SER:HB3	1:21:A:SER:H	15	0.32
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	1	0.31
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	7	0.31
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	13	0.31
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	17	0.31
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	18	0.31
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	19	0.31
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	6	0.31
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	17	0.31
(1,236)	1:15:A:VAL:HB	1:15:A:VAL:H	9	0.31
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	12	0.31
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	12	0.31
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	12	0.31
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	14	0.31
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	14	0.31
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	14	0.31
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	13	0.31
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	2	0.31
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	12	0.31
(1,147)	1:43:A:VAL:HG11	1:10:A:PHE:H	5	0.31
(1,147)	1:43:A:VAL:HG12	1:10:A:PHE:H	5	0.31
(1,147)	1:43:A:VAL:HG13	1:10:A:PHE:H	5	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	12	0.31
(1,47)	1:39:A:CYS:HB2	1:40:A:LYS:H	5	0.31
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	7	0.31
(1,1)	1:21:A:SER:HB3	1:21:A:SER:H	11	0.31
(1,1)	1:21:A:SER:HB3	1:21:A:SER:H	20	0.31
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	16	0.3
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	16	0.3
(1,385)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	16	0.3
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG21	16	0.3
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG22	16	0.3
(1,375)	1:47:A:GLY:HA3	1:42:A:ILE:HG23	16	0.3
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	2	0.3
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	5	0.3
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	8	0.3
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	9	0.3
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	11	0.3
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	12	0.3
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	20	0.3
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	10	0.3
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	19	0.3
(1,310)	1:55:A:GLY:HA3	1:56:A:LYS:H	14	0.3
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	11	0.3
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	11	0.3
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	11	0.3
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	19	0.3
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	19	0.3
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	19	0.3
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	17	0.3
(1,185)	1:36:A:CYS:HB3	1:18:A:THR:H	14	0.3
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	3	0.3
(1,137)	1:42:A:ILE:HG12	1:43:A:VAL:H	2	0.3
(1,116)	1:10:A:PHE:HA	1:12:A:ASP:H	12	0.3
(1,107)	1:41:A:ALA:HB1	1:44:A:LYS:H	16	0.3
(1,107)	1:41:A:ALA:HB2	1:44:A:LYS:H	16	0.3
(1,107)	1:41:A:ALA:HB3	1:44:A:LYS:H	16	0.3
(1,38)	1:40:A:LYS:HB2	1:41:A:ALA:H	1	0.3
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	5	0.3
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	10	0.3
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	10	0.29
(1,329)	1:29:A:GLY:HA3	1:29:A:GLY:H	16	0.29
(1,320)	1:11:A:GLN:H	1:10:A:PHE:H	3	0.29
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	5	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	13	0.29
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	18	0.29
(1,226)	1:39:A:CYS:HB3	1:39:A:CYS:H	3	0.29
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	1	0.29
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	1	0.29
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	1	0.29
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	13	0.29
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	13	0.29
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	13	0.29
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	2	0.29
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	20	0.29
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	10	0.29
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	17	0.29
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	19	0.29
(1,123)	1:43:A:VAL:HA	1:11:A:GLN:H	2	0.29
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	1	0.29
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	3	0.29
(1,1)	1:21:A:SER:HB3	1:21:A:SER:H	14	0.29
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	20	0.28
(1,299)	1:50:A:SER:HB2	1:50:A:SER:H	16	0.28
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	3	0.28
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	3	0.28
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	3	0.28
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	10	0.28
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	10	0.28
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	10	0.28
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	9	0.28
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	12	0.28
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	16	0.28
(1,181)	1:18:A:THR:HB	1:19:A:ARG:H	12	0.28
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	5	0.28
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	11	0.28
(1,143)	1:7:A:CYS:HA	1:10:A:PHE:H	10	0.28
(1,118)	1:12:A:ASP:HB2	1:13:A:THR:H	18	0.28
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	11	0.28
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	15	0.28
(1,38)	1:40:A:LYS:HB2	1:41:A:ALA:H	7	0.28
(1,38)	1:40:A:LYS:HB2	1:41:A:ALA:H	13	0.28
(1,38)	1:40:A:LYS:HB2	1:41:A:ALA:H	17	0.28
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	3	0.28
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	11	0.28
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	12	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	16	0.28
(1,1)	1:21:A:SER:HB3	1:21:A:SER:H	4	0.28
(1,380)	1:39:A:CYS:HA	1:42:A:ILE:HB	13	0.27
(1,370)	1:39:A:CYS:HA	1:42:A:ILE:HB	13	0.27
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	5	0.27
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	8	0.27
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	17	0.27
(1,299)	1:50:A:SER:HB2	1:50:A:SER:H	13	0.27
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	7	0.27
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	10	0.27
(1,234)	1:14:A:LYS:HG2	1:14:A:LYS:H	8	0.27
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	6	0.27
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	6	0.27
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	6	0.27
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	1	0.27
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	3	0.27
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	5	0.27
(1,185)	1:36:A:CYS:HB3	1:18:A:THR:H	1	0.27
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	15	0.27
(1,116)	1:10:A:PHE:HA	1:12:A:ASP:H	9	0.27
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	5	0.27
(1,66)	1:36:A:CYS:HB2	1:36:A:CYS:H	9	0.27
(1,60)	1:36:A:CYS:HB2	1:37:A:ALA:H	11	0.27
(1,32)	1:19:A:ARG:HG2	1:20:A:GLU:H	17	0.27
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	8	0.27
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	10	0.27
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	15	0.27
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	19	0.27
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	20	0.27
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	1	0.27
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	12	0.27
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	15	0.27
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	4	0.26
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	7	0.26
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	16	0.26
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	2	0.26
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	2	0.26
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	2	0.26
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	8	0.26
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	8	0.26
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	8	0.26
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	7	0.26
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	7	0.26
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	7	0.26
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	15	0.26
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	15	0.26
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	15	0.26
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	16	0.26
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	16	0.26
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	16	0.26
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	14	0.26
(1,181)	1:18:A:THR:HB	1:19:A:ARG:H	16	0.26
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	16	0.26
(1,145)	1:6:A:ASP:HB3	1:7:A:CYS:H	4	0.26
(1,143)	1:7:A:CYS:HA	1:10:A:PHE:H	3	0.26
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	5	0.26
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	6	0.26
(1,39)	1:11:A:GLN:HG2	1:11:A:GLN:H	19	0.26
(1,32)	1:19:A:ARG:HG2	1:20:A:GLU:H	20	0.26
(1,29)	1:52:A:LYS:HD3	1:52:A:LYS:H	3	0.26
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	4	0.26
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	8	0.26
(1,1)	1:21:A:SER:HB3	1:21:A:SER:H	16	0.26
(1,340)	1:10:A:PHE:HB2	1:10:A:PHE:H	6	0.25
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	3	0.25
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	9	0.25
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	11	0.25
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	13	0.25
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	14	0.25
(1,310)	1:55:A:GLY:HA3	1:56:A:LYS:H	20	0.25
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	1	0.25
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	1	0.25
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	1	0.25
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	4	0.25
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	4	0.25
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	4	0.25
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	19	0.25
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	19	0.25
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	19	0.25
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	11	0.25
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	5	0.25
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	5	0.25
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	5	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	18	0.25
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	18	0.25
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	18	0.25
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	10	0.25
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	7	0.25
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	18	0.25
(1,151)	1:16:A:TYR:HA	1:7:A:CYS:H	20	0.25
(1,143)	1:7:A:CYS:HA	1:10:A:PHE:H	4	0.25
(1,118)	1:12:A:ASP:HB2	1:13:A:THR:H	20	0.25
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	10	0.25
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	13	0.25
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	14	0.25
(1,107)	1:41:A:ALA:HB1	1:44:A:LYS:H	17	0.25
(1,107)	1:41:A:ALA:HB2	1:44:A:LYS:H	17	0.25
(1,107)	1:41:A:ALA:HB3	1:44:A:LYS:H	17	0.25
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	13	0.25
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	15	0.25
(1,61)	1:17:A:CYS:HB2	1:37:A:ALA:H	20	0.25
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	2	0.25
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	2	0.24
(1,289)	1:42:A:ILE:H	1:40:A:LYS:H	19	0.24
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	9	0.24
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	9	0.24
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	9	0.24
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	10	0.24
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	10	0.24
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	10	0.24
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	15	0.24
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	15	0.24
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	15	0.24
(1,233)	1:9:A:GLU:HB2	1:9:A:GLU:H	12	0.24
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	19	0.24
(1,186)	1:17:A:CYS:HB3	1:18:A:THR:H	9	0.24
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	13	0.24
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	20	0.24
(1,151)	1:16:A:TYR:HA	1:7:A:CYS:H	8	0.24
(1,151)	1:16:A:TYR:HA	1:7:A:CYS:H	9	0.24
(1,147)	1:43:A:VAL:HG11	1:10:A:PHE:H	16	0.24
(1,147)	1:43:A:VAL:HG12	1:10:A:PHE:H	16	0.24
(1,147)	1:43:A:VAL:HG13	1:10:A:PHE:H	16	0.24
(1,144)	1:8:A:GLY:HA2	1:10:A:PHE:H	17	0.24
(1,143)	1:7:A:CYS:HA	1:10:A:PHE:H	16	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,143)	1:7:A:CYS:HA	1:10:A:PHE:H	18	0.24
(1,121)	1:10:A:PHE:HB2	1:11:A:GLN:H	15	0.24
(1,116)	1:10:A:PHE:HA	1:12:A:ASP:H	17	0.24
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	4	0.24
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	10	0.24
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	20	0.24
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	6	0.24
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	14	0.24
(1,19)	1:20:A:GLU:HB3	1:22:A:ASN:H	15	0.24
(1,10)	1:4:A:GLN:HG3	1:4:A:GLN:H	12	0.24
(1,10)	1:4:A:GLN:HG3	1:4:A:GLN:H	18	0.24
(1,355)	1:53:A:HIS:HB3	1:53:A:HIS:H	13	0.23
(1,349)	1:41:A:ALA:H	1:39:A:CYS:H	9	0.23
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	1	0.23
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	15	0.23
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	5	0.23
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	5	0.23
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	5	0.23
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	6	0.23
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	6	0.23
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	6	0.23
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	16	0.23
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	16	0.23
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	16	0.23
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	12	0.23
(1,216)	1:42:A:ILE:HG12	1:42:A:ILE:H	4	0.23
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	17	0.23
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	17	0.23
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	17	0.23
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	4	0.23
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	6	0.23
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	8	0.23
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	11	0.23
(1,197)	1:24:A:HIS:HA	1:53:A:HIS:H	15	0.23
(1,181)	1:18:A:THR:HB	1:19:A:ARG:H	18	0.23
(1,172)	1:28:A:ASP:HA	1:30:A:GLN:H	9	0.23
(1,151)	1:16:A:TYR:HA	1:7:A:CYS:H	16	0.23
(1,125)	1:14:A:LYS:HA	1:15:A:VAL:H	9	0.23
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	6	0.23
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	12	0.23
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	8	0.23
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	18	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1)	1:21:A:SER:HB3	1:21:A:SER:H	17	0.23
(1,380)	1:39:A:CYS:HA	1:42:A:ILE:HB	2	0.22
(1,370)	1:39:A:CYS:HA	1:42:A:ILE:HB	2	0.22
(1,362)	1:27:A:SER:HA	1:52:A:LYS:H	13	0.22
(1,355)	1:53:A:HIS:HB3	1:53:A:HIS:H	14	0.22
(1,355)	1:53:A:HIS:HB3	1:53:A:HIS:H	17	0.22
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	6	0.22
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	12	0.22
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	12	0.22
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	12	0.22
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	17	0.22
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	17	0.22
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	17	0.22
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	3	0.22
(1,250)	1:16:A:TYR:HB2	1:16:A:TYR:H	12	0.22
(1,209)	1:42:A:ILE:HG21	1:42:A:ILE:H	9	0.22
(1,209)	1:42:A:ILE:HG22	1:42:A:ILE:H	9	0.22
(1,209)	1:42:A:ILE:HG23	1:42:A:ILE:H	9	0.22
(1,131)	1:13:A:THR:HB	1:14:A:LYS:H	20	0.22
(1,118)	1:12:A:ASP:HB2	1:13:A:THR:H	15	0.22
(1,117)	1:13:A:THR:HB	1:13:A:THR:H	7	0.22
(1,117)	1:13:A:THR:HB	1:13:A:THR:H	19	0.22
(1,66)	1:36:A:CYS:HB2	1:36:A:CYS:H	2	0.22
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	3	0.22
(1,42)	1:3:A:GLY:HA3	1:4:A:GLN:H	17	0.22
(1,24)	1:26:A:GLY:HA2	1:26:A:GLY:H	4	0.22
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	16	0.22
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	20	0.22
(1,362)	1:27:A:SER:HA	1:52:A:LYS:H	17	0.21
(1,349)	1:41:A:ALA:H	1:39:A:CYS:H	17	0.21
(1,319)	1:12:A:ASP:H	1:13:A:THR:H	18	0.21
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	3	0.21
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	3	0.21
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	3	0.21
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	7	0.21
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	7	0.21
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	7	0.21
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	11	0.21
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	11	0.21
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	11	0.21
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	18	0.21
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	18	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	18	0.21
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	1	0.21
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	9	0.21
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	14	0.21
(1,216)	1:42:A:ILE:HG12	1:42:A:ILE:H	1	0.21
(1,181)	1:18:A:THR:HB	1:19:A:ARG:H	3	0.21
(1,181)	1:18:A:THR:HB	1:19:A:ARG:H	10	0.21
(1,152)	1:6:A:ASP:HB2	1:7:A:CYS:H	15	0.21
(1,152)	1:6:A:ASP:HB2	1:7:A:CYS:H	16	0.21
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	20	0.21
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	2	0.21
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	16	0.21
(1,34)	1:49:A:ILE:HG12	1:50:A:SER:H	20	0.21
(1,19)	1:20:A:GLU:HB3	1:22:A:ASN:H	11	0.21
(1,5)	1:48:A:LYS:HG3	1:48:A:LYS:H	15	0.21
(1,362)	1:27:A:SER:HA	1:52:A:LYS:H	7	0.2
(1,362)	1:27:A:SER:HA	1:52:A:LYS:H	9	0.2
(1,357)	1:53:A:HIS:HB2	1:53:A:HIS:H	12	0.2
(1,320)	1:11:A:GLN:H	1:10:A:PHE:H	2	0.2
(1,310)	1:55:A:GLY:HA3	1:56:A:LYS:H	8	0.2
(1,310)	1:55:A:GLY:HA3	1:56:A:LYS:H	10	0.2
(1,305)	1:17:A:CYS:HA	1:18:A:THR:H	6	0.2
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	13	0.2
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	13	0.2
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	13	0.2
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	14	0.2
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	14	0.2
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	14	0.2
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	19	0.2
(1,216)	1:42:A:ILE:HG12	1:42:A:ILE:H	16	0.2
(1,186)	1:17:A:CYS:HB3	1:18:A:THR:H	19	0.2
(1,183)	1:16:A:TYR:HB2	1:17:A:CYS:H	15	0.2
(1,181)	1:18:A:THR:HB	1:19:A:ARG:H	13	0.2
(1,181)	1:18:A:THR:HB	1:19:A:ARG:H	14	0.2
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	11	0.2
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	12	0.2
(1,152)	1:6:A:ASP:HB2	1:7:A:CYS:H	12	0.2
(1,143)	1:7:A:CYS:HA	1:10:A:PHE:H	8	0.2
(1,139)	1:4:A:GLN:HA	1:5:A:VAL:H	6	0.2
(1,68)	1:42:A:ILE:HA	1:49:A:ILE:H	10	0.2
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	9	0.2
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	11	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	14	0.2
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	19	0.2
(1,38)	1:40:A:LYS:HB2	1:41:A:ALA:H	9	0.2
(1,38)	1:40:A:LYS:HB2	1:41:A:ALA:H	16	0.2
(1,9)	1:9:A:GLU:HB3	1:10:A:PHE:H	18	0.2
(1,2)	1:46:A:GLY:HA3	1:47:A:GLY:H	9	0.2
(1,1)	1:21:A:SER:HB3	1:21:A:SER:H	3	0.2
(1,362)	1:27:A:SER:HA	1:52:A:LYS:H	18	0.19
(1,349)	1:41:A:ALA:H	1:39:A:CYS:H	19	0.19
(1,347)	1:29:A:GLY:H	1:27:A:SER:H	3	0.19
(1,347)	1:29:A:GLY:H	1:27:A:SER:H	15	0.19
(1,310)	1:55:A:GLY:HA3	1:56:A:LYS:H	13	0.19
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	2	0.19
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	16	0.19
(1,216)	1:42:A:ILE:HG12	1:42:A:ILE:H	11	0.19
(1,181)	1:18:A:THR:HB	1:19:A:ARG:H	9	0.19
(1,151)	1:16:A:TYR:HA	1:7:A:CYS:H	18	0.19
(1,119)	1:10:A:PHE:HB3	1:11:A:GLN:H	1	0.19
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	16	0.19
(1,112)	1:40:A:LYS:HA	1:43:A:VAL:H	18	0.19
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	8	0.19
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	11	0.19
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	12	0.19
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	1	0.19
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	7	0.19
(1,63)	1:35:A:LYS:HA	1:36:A:CYS:H	17	0.19
(1,58)	1:35:A:LYS:HA	1:37:A:ALA:H	9	0.19
(1,57)	1:32:A:TYR:HB2	1:33:A:GLY:H	13	0.19
(1,29)	1:52:A:LYS:HD3	1:52:A:LYS:H	9	0.19
(1,1)	1:21:A:SER:HB3	1:21:A:SER:H	18	0.19
(1,355)	1:53:A:HIS:HB3	1:53:A:HIS:H	3	0.18
(1,349)	1:41:A:ALA:H	1:39:A:CYS:H	7	0.18
(1,302)	1:30:A:GLN:H	1:26:A:GLY:H	2	0.18
(1,300)	1:49:A:ILE:H	1:47:A:GLY:H	20	0.18
(1,265)	1:31:A:THR:HG21	1:31:A:THR:H	20	0.18
(1,265)	1:31:A:THR:HG22	1:31:A:THR:H	20	0.18
(1,265)	1:31:A:THR:HG23	1:31:A:THR:H	20	0.18
(1,216)	1:42:A:ILE:HG12	1:42:A:ILE:H	5	0.18
(1,216)	1:42:A:ILE:HG12	1:42:A:ILE:H	20	0.18
(1,181)	1:18:A:THR:HB	1:19:A:ARG:H	19	0.18
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	7	0.18
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	17	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	20	0.18
(1,134)	1:11:A:GLN:HG3	1:12:A:ASP:H	3	0.18
(1,131)	1:13:A:THR:HB	1:14:A:LYS:H	8	0.18
(1,124)	1:12:A:ASP:HA	1:13:A:THR:H	2	0.18
(1,121)	1:10:A:PHE:HB2	1:11:A:GLN:H	3	0.18
(1,119)	1:10:A:PHE:HB3	1:11:A:GLN:H	10	0.18
(1,118)	1:12:A:ASP:HB2	1:13:A:THR:H	6	0.18
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	4	0.18
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	10	0.18
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	14	0.18
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	18	0.18
(1,58)	1:35:A:LYS:HA	1:37:A:ALA:H	2	0.18
(1,58)	1:35:A:LYS:HA	1:37:A:ALA:H	19	0.18
(1,57)	1:32:A:TYR:HB2	1:33:A:GLY:H	1	0.18
(1,10)	1:4:A:GLN:HG3	1:4:A:GLN:H	7	0.18
(1,5)	1:48:A:LYS:HG3	1:48:A:LYS:H	18	0.18
(1,355)	1:53:A:HIS:HB3	1:53:A:HIS:H	8	0.17
(1,349)	1:41:A:ALA:H	1:39:A:CYS:H	12	0.17
(1,347)	1:29:A:GLY:H	1:27:A:SER:H	14	0.17
(1,345)	1:30:A:GLN:H	1:28:A:ASP:H	9	0.17
(1,305)	1:17:A:CYS:HA	1:18:A:THR:H	7	0.17
(1,305)	1:17:A:CYS:HA	1:18:A:THR:H	17	0.17
(1,302)	1:30:A:GLN:H	1:26:A:GLY:H	13	0.17
(1,289)	1:42:A:ILE:H	1:40:A:LYS:H	12	0.17
(1,228)	1:39:A:CYS:HB2	1:39:A:CYS:H	7	0.17
(1,226)	1:39:A:CYS:HB3	1:39:A:CYS:H	10	0.17
(1,211)	1:43:A:VAL:HB	1:43:A:VAL:H	13	0.17
(1,185)	1:36:A:CYS:HB3	1:18:A:THR:H	2	0.17
(1,181)	1:18:A:THR:HB	1:19:A:ARG:H	8	0.17
(1,181)	1:18:A:THR:HB	1:19:A:ARG:H	20	0.17
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	3	0.17
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	13	0.17
(1,152)	1:6:A:ASP:HB2	1:7:A:CYS:H	8	0.17
(1,145)	1:6:A:ASP:HB3	1:7:A:CYS:H	6	0.17
(1,119)	1:10:A:PHE:HB3	1:11:A:GLN:H	14	0.17
(1,115)	1:11:A:GLN:HB2	1:12:A:ASP:H	15	0.17
(1,68)	1:42:A:ILE:HA	1:49:A:ILE:H	8	0.17
(1,60)	1:36:A:CYS:HB2	1:37:A:ALA:H	4	0.17
(1,44)	1:35:A:LYS:HA	1:38:A:PHE:H	11	0.17
(1,38)	1:40:A:LYS:HB2	1:41:A:ALA:H	18	0.17
(1,10)	1:4:A:GLN:HG3	1:4:A:GLN:H	4	0.17
(1,355)	1:53:A:HIS:HB3	1:53:A:HIS:H	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,355)	1:53:A:HIS:HB3	1:53:A:HIS:H	9	0.16
(1,343)	1:33:A:GLY:HA2	1:33:A:GLY:H	11	0.16
(1,343)	1:33:A:GLY:HA2	1:33:A:GLY:H	15	0.16
(1,343)	1:33:A:GLY:HA2	1:33:A:GLY:H	20	0.16
(1,320)	1:11:A:GLN:H	1:10:A:PHE:H	1	0.16
(1,312)	1:55:A:GLY:HA2	1:56:A:LYS:H	7	0.16
(1,302)	1:30:A:GLN:H	1:26:A:GLY:H	20	0.16
(1,289)	1:42:A:ILE:H	1:40:A:LYS:H	13	0.16
(1,289)	1:42:A:ILE:H	1:40:A:LYS:H	15	0.16
(1,289)	1:42:A:ILE:H	1:40:A:LYS:H	17	0.16
(1,289)	1:42:A:ILE:H	1:40:A:LYS:H	20	0.16
(1,282)	1:34:A:ASN:H	1:37:A:ALA:H	15	0.16
(1,226)	1:39:A:CYS:HB3	1:39:A:CYS:H	17	0.16
(1,211)	1:43:A:VAL:HB	1:43:A:VAL:H	9	0.16
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	1	0.16
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	5	0.16
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	16	0.16
(1,162)	1:24:A:HIS:HB2	1:25:A:CYS:H	2	0.16
(1,162)	1:24:A:HIS:HB2	1:25:A:CYS:H	9	0.16
(1,162)	1:24:A:HIS:HB2	1:25:A:CYS:H	19	0.16
(1,151)	1:16:A:TYR:HA	1:7:A:CYS:H	4	0.16
(1,145)	1:6:A:ASP:HB3	1:7:A:CYS:H	3	0.16
(1,143)	1:7:A:CYS:HA	1:10:A:PHE:H	6	0.16
(1,139)	1:4:A:GLN:HA	1:5:A:VAL:H	5	0.16
(1,131)	1:13:A:THR:HB	1:14:A:LYS:H	4	0.16
(1,117)	1:13:A:THR:HB	1:13:A:THR:H	9	0.16
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	9	0.16
(1,112)	1:40:A:LYS:HA	1:43:A:VAL:H	10	0.16
(1,112)	1:40:A:LYS:HA	1:43:A:VAL:H	19	0.16
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	1	0.16
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	2	0.16
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	4	0.16
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	7	0.16
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	20	0.16
(1,88)	1:49:A:ILE:HB	1:50:A:SER:H	7	0.16
(1,60)	1:36:A:CYS:HB2	1:37:A:ALA:H	10	0.16
(1,60)	1:36:A:CYS:HB2	1:37:A:ALA:H	14	0.16
(1,58)	1:35:A:LYS:HA	1:37:A:ALA:H	7	0.16
(1,58)	1:35:A:LYS:HA	1:37:A:ALA:H	17	0.16
(1,44)	1:35:A:LYS:HA	1:38:A:PHE:H	14	0.16
(1,38)	1:40:A:LYS:HB2	1:41:A:ALA:H	5	0.16
(1,38)	1:40:A:LYS:HB2	1:41:A:ALA:H	19	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,33)	1:52:A:LYS:HG3	1:52:A:LYS:H	20	0.16
(1,19)	1:20:A:GLU:HB3	1:22:A:ASN:H	18	0.16
(1,10)	1:4:A:GLN:HG3	1:4:A:GLN:H	8	0.16
(1,1)	1:21:A:SER:HB3	1:21:A:SER:H	9	0.16
(1,380)	1:39:A:CYS:HA	1:42:A:ILE:HB	1	0.15
(1,380)	1:39:A:CYS:HA	1:42:A:ILE:HB	17	0.15
(1,370)	1:39:A:CYS:HA	1:42:A:ILE:HB	1	0.15
(1,370)	1:39:A:CYS:HA	1:42:A:ILE:HB	17	0.15
(1,362)	1:27:A:SER:HA	1:52:A:LYS:H	1	0.15
(1,362)	1:27:A:SER:HA	1:52:A:LYS:H	16	0.15
(1,355)	1:53:A:HIS:HB3	1:53:A:HIS:H	6	0.15
(1,355)	1:53:A:HIS:HB3	1:53:A:HIS:H	19	0.15
(1,349)	1:41:A:ALA:H	1:39:A:CYS:H	15	0.15
(1,347)	1:29:A:GLY:H	1:27:A:SER:H	10	0.15
(1,347)	1:29:A:GLY:H	1:27:A:SER:H	18	0.15
(1,345)	1:30:A:GLN:H	1:28:A:ASP:H	3	0.15
(1,345)	1:30:A:GLN:H	1:28:A:ASP:H	18	0.15
(1,343)	1:33:A:GLY:HA2	1:33:A:GLY:H	6	0.15
(1,343)	1:33:A:GLY:HA2	1:33:A:GLY:H	13	0.15
(1,320)	1:11:A:GLN:H	1:10:A:PHE:H	4	0.15
(1,320)	1:11:A:GLN:H	1:10:A:PHE:H	8	0.15
(1,302)	1:30:A:GLN:H	1:26:A:GLY:H	1	0.15
(1,302)	1:30:A:GLN:H	1:26:A:GLY:H	17	0.15
(1,300)	1:49:A:ILE:H	1:47:A:GLY:H	6	0.15
(1,300)	1:49:A:ILE:H	1:47:A:GLY:H	8	0.15
(1,300)	1:49:A:ILE:H	1:47:A:GLY:H	10	0.15
(1,289)	1:42:A:ILE:H	1:40:A:LYS:H	7	0.15
(1,289)	1:42:A:ILE:H	1:40:A:LYS:H	9	0.15
(1,220)	1:11:A:GLN:HA	1:11:A:GLN:H	17	0.15
(1,211)	1:43:A:VAL:HB	1:43:A:VAL:H	3	0.15
(1,192)	1:18:A:THR:HA	1:20:A:GLU:H	9	0.15
(1,192)	1:18:A:THR:HA	1:20:A:GLU:H	19	0.15
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	18	0.15
(1,162)	1:24:A:HIS:HB2	1:25:A:CYS:H	20	0.15
(1,131)	1:13:A:THR:HB	1:14:A:LYS:H	13	0.15
(1,131)	1:13:A:THR:HB	1:14:A:LYS:H	17	0.15
(1,131)	1:13:A:THR:HB	1:14:A:LYS:H	18	0.15
(1,123)	1:43:A:VAL:HA	1:11:A:GLN:H	9	0.15
(1,123)	1:43:A:VAL:HA	1:11:A:GLN:H	12	0.15
(1,123)	1:43:A:VAL:HA	1:11:A:GLN:H	20	0.15
(1,117)	1:13:A:THR:HB	1:13:A:THR:H	6	0.15
(1,117)	1:13:A:THR:HB	1:13:A:THR:H	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,112)	1:40:A:LYS:HA	1:43:A:VAL:H	14	0.15
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	3	0.15
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	5	0.15
(1,88)	1:49:A:ILE:HB	1:50:A:SER:H	10	0.15
(1,88)	1:49:A:ILE:HB	1:50:A:SER:H	13	0.15
(1,86)	1:52:A:LYS:HG2	1:53:A:HIS:H	20	0.15
(1,68)	1:42:A:ILE:HA	1:49:A:ILE:H	14	0.15
(1,57)	1:32:A:TYR:HB2	1:33:A:GLY:H	18	0.15
(1,38)	1:40:A:LYS:HB2	1:41:A:ALA:H	8	0.15
(1,380)	1:39:A:CYS:HA	1:42:A:ILE:HB	9	0.14
(1,370)	1:39:A:CYS:HA	1:42:A:ILE:HB	9	0.14
(1,362)	1:27:A:SER:HA	1:52:A:LYS:H	5	0.14
(1,355)	1:53:A:HIS:HB3	1:53:A:HIS:H	11	0.14
(1,354)	1:52:A:LYS:H	1:27:A:SER:H	14	0.14
(1,349)	1:41:A:ALA:H	1:39:A:CYS:H	13	0.14
(1,349)	1:41:A:ALA:H	1:39:A:CYS:H	18	0.14
(1,343)	1:33:A:GLY:HA2	1:33:A:GLY:H	3	0.14
(1,320)	1:11:A:GLN:H	1:10:A:PHE:H	11	0.14
(1,320)	1:11:A:GLN:H	1:10:A:PHE:H	16	0.14
(1,318)	1:27:A:SER:H	1:50:A:SER:H	18	0.14
(1,310)	1:55:A:GLY:HA3	1:56:A:LYS:H	17	0.14
(1,302)	1:30:A:GLN:H	1:26:A:GLY:H	4	0.14
(1,289)	1:42:A:ILE:H	1:40:A:LYS:H	5	0.14
(1,289)	1:42:A:ILE:H	1:40:A:LYS:H	6	0.14
(1,289)	1:42:A:ILE:H	1:40:A:LYS:H	8	0.14
(1,260)	1:24:A:HIS:HB3	1:24:A:HIS:H	20	0.14
(1,226)	1:39:A:CYS:HB3	1:39:A:CYS:H	8	0.14
(1,226)	1:39:A:CYS:HB3	1:39:A:CYS:H	15	0.14
(1,220)	1:11:A:GLN:HA	1:11:A:GLN:H	2	0.14
(1,211)	1:43:A:VAL:HB	1:43:A:VAL:H	12	0.14
(1,200)	1:30:A:GLN:HA	1:30:A:GLN:H	9	0.14
(1,200)	1:30:A:GLN:HA	1:30:A:GLN:H	17	0.14
(1,200)	1:30:A:GLN:HA	1:30:A:GLN:H	18	0.14
(1,192)	1:18:A:THR:HA	1:20:A:GLU:H	20	0.14
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	8	0.14
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	9	0.14
(1,138)	1:5:A:VAL:HA	1:6:A:ASP:H	6	0.14
(1,131)	1:13:A:THR:HB	1:14:A:LYS:H	11	0.14
(1,125)	1:14:A:LYS:HA	1:15:A:VAL:H	20	0.14
(1,123)	1:43:A:VAL:HA	1:11:A:GLN:H	8	0.14
(1,118)	1:12:A:ASP:HB2	1:13:A:THR:H	14	0.14
(1,117)	1:13:A:THR:HB	1:13:A:THR:H	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	1	0.14
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	7	0.14
(1,112)	1:40:A:LYS:HA	1:43:A:VAL:H	20	0.14
(1,100)	1:38:A:PHE:HA	1:41:A:ALA:H	2	0.14
(1,100)	1:38:A:PHE:HA	1:41:A:ALA:H	7	0.14
(1,99)	1:40:A:LYS:HA	1:41:A:ALA:H	3	0.14
(1,99)	1:40:A:LYS:HA	1:41:A:ALA:H	12	0.14
(1,97)	1:36:A:CYS:HA	1:39:A:CYS:H	2	0.14
(1,88)	1:49:A:ILE:HB	1:50:A:SER:H	8	0.14
(1,88)	1:49:A:ILE:HB	1:50:A:SER:H	11	0.14
(1,88)	1:49:A:ILE:HB	1:50:A:SER:H	20	0.14
(1,86)	1:52:A:LYS:HG2	1:53:A:HIS:H	16	0.14
(1,77)	1:43:A:VAL:HA	1:47:A:GLY:H	2	0.14
(1,77)	1:43:A:VAL:HA	1:47:A:GLY:H	8	0.14
(1,70)	1:48:A:LYS:HA	1:49:A:ILE:H	4	0.14
(1,68)	1:42:A:ILE:HA	1:49:A:ILE:H	1	0.14
(1,9)	1:9:A:GLU:HB3	1:10:A:PHE:H	1	0.14
(1,380)	1:39:A:CYS:HA	1:42:A:ILE:HB	19	0.13
(1,370)	1:39:A:CYS:HA	1:42:A:ILE:HB	19	0.13
(1,362)	1:27:A:SER:HA	1:52:A:LYS:H	20	0.13
(1,355)	1:53:A:HIS:HB3	1:53:A:HIS:H	15	0.13
(1,349)	1:41:A:ALA:H	1:39:A:CYS:H	6	0.13
(1,347)	1:29:A:GLY:H	1:27:A:SER:H	1	0.13
(1,347)	1:29:A:GLY:H	1:27:A:SER:H	12	0.13
(1,345)	1:30:A:GLN:H	1:28:A:ASP:H	7	0.13
(1,343)	1:33:A:GLY:HA2	1:33:A:GLY:H	8	0.13
(1,343)	1:33:A:GLY:HA2	1:33:A:GLY:H	10	0.13
(1,343)	1:33:A:GLY:HA2	1:33:A:GLY:H	19	0.13
(1,322)	1:15:A:VAL:H	1:16:A:TYR:H	20	0.13
(1,310)	1:55:A:GLY:HA3	1:56:A:LYS:H	15	0.13
(1,307)	1:7:A:CYS:HA	1:8:A:GLY:H	9	0.13
(1,305)	1:17:A:CYS:HA	1:18:A:THR:H	5	0.13
(1,303)	1:10:A:PHE:HA	1:11:A:GLN:H	12	0.13
(1,302)	1:30:A:GLN:H	1:26:A:GLY:H	7	0.13
(1,300)	1:49:A:ILE:H	1:47:A:GLY:H	2	0.13
(1,300)	1:49:A:ILE:H	1:47:A:GLY:H	15	0.13
(1,289)	1:42:A:ILE:H	1:40:A:LYS:H	4	0.13
(1,289)	1:42:A:ILE:H	1:40:A:LYS:H	14	0.13
(1,281)	1:41:A:ALA:H	1:42:A:ILE:H	1	0.13
(1,281)	1:41:A:ALA:H	1:42:A:ILE:H	16	0.13
(1,278)	1:28:A:ASP:HB2	1:28:A:ASP:H	6	0.13
(1,216)	1:42:A:ILE:HG12	1:42:A:ILE:H	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,211)	1:43:A:VAL:HB	1:43:A:VAL:H	11	0.13
(1,185)	1:36:A:CYS:HB3	1:18:A:THR:H	15	0.13
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	2	0.13
(1,152)	1:6:A:ASP:HB2	1:7:A:CYS:H	5	0.13
(1,151)	1:16:A:TYR:HA	1:7:A:CYS:H	3	0.13
(1,144)	1:8:A:GLY:HA2	1:10:A:PHE:H	10	0.13
(1,138)	1:5:A:VAL:HA	1:6:A:ASP:H	4	0.13
(1,131)	1:13:A:THR:HB	1:14:A:LYS:H	15	0.13
(1,121)	1:10:A:PHE:HB2	1:11:A:GLN:H	8	0.13
(1,116)	1:10:A:PHE:HA	1:12:A:ASP:H	7	0.13
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	18	0.13
(1,112)	1:40:A:LYS:HA	1:43:A:VAL:H	4	0.13
(1,112)	1:40:A:LYS:HA	1:43:A:VAL:H	8	0.13
(1,112)	1:40:A:LYS:HA	1:43:A:VAL:H	12	0.13
(1,100)	1:38:A:PHE:HA	1:41:A:ALA:H	17	0.13
(1,99)	1:40:A:LYS:HA	1:41:A:ALA:H	11	0.13
(1,99)	1:40:A:LYS:HA	1:41:A:ALA:H	15	0.13
(1,88)	1:49:A:ILE:HB	1:50:A:SER:H	14	0.13
(1,77)	1:43:A:VAL:HA	1:47:A:GLY:H	10	0.13
(1,77)	1:43:A:VAL:HA	1:47:A:GLY:H	20	0.13
(1,70)	1:48:A:LYS:HA	1:49:A:ILE:H	14	0.13
(1,68)	1:42:A:ILE:HA	1:49:A:ILE:H	11	0.13
(1,60)	1:36:A:CYS:HB2	1:37:A:ALA:H	8	0.13
(1,10)	1:4:A:GLN:HG3	1:4:A:GLN:H	3	0.13
(1,355)	1:53:A:HIS:HB3	1:53:A:HIS:H	1	0.12
(1,349)	1:41:A:ALA:H	1:39:A:CYS:H	14	0.12
(1,347)	1:29:A:GLY:H	1:27:A:SER:H	8	0.12
(1,347)	1:29:A:GLY:H	1:27:A:SER:H	11	0.12
(1,322)	1:15:A:VAL:H	1:16:A:TYR:H	13	0.12
(1,322)	1:15:A:VAL:H	1:16:A:TYR:H	17	0.12
(1,322)	1:15:A:VAL:H	1:16:A:TYR:H	19	0.12
(1,318)	1:27:A:SER:H	1:50:A:SER:H	9	0.12
(1,310)	1:55:A:GLY:HA3	1:56:A:LYS:H	3	0.12
(1,305)	1:17:A:CYS:HA	1:18:A:THR:H	12	0.12
(1,289)	1:42:A:ILE:H	1:40:A:LYS:H	16	0.12
(1,289)	1:42:A:ILE:H	1:40:A:LYS:H	18	0.12
(1,226)	1:39:A:CYS:HB3	1:39:A:CYS:H	18	0.12
(1,211)	1:43:A:VAL:HB	1:43:A:VAL:H	15	0.12
(1,211)	1:43:A:VAL:HB	1:43:A:VAL:H	17	0.12
(1,200)	1:30:A:GLN:HA	1:30:A:GLN:H	1	0.12
(1,200)	1:30:A:GLN:HA	1:30:A:GLN:H	7	0.12
(1,200)	1:30:A:GLN:HA	1:30:A:GLN:H	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,192)	1:18:A:THR:HA	1:20:A:GLU:H	3	0.12
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	6	0.12
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	19	0.12
(1,162)	1:24:A:HIS:HB2	1:25:A:CYS:H	1	0.12
(1,162)	1:24:A:HIS:HB2	1:25:A:CYS:H	7	0.12
(1,162)	1:24:A:HIS:HB2	1:25:A:CYS:H	16	0.12
(1,148)	1:9:A:GLU:HA	1:10:A:PHE:H	10	0.12
(1,145)	1:6:A:ASP:HB3	1:7:A:CYS:H	2	0.12
(1,139)	1:4:A:GLN:HA	1:5:A:VAL:H	9	0.12
(1,131)	1:13:A:THR:HB	1:14:A:LYS:H	16	0.12
(1,124)	1:12:A:ASP:HA	1:13:A:THR:H	17	0.12
(1,123)	1:43:A:VAL:HA	1:11:A:GLN:H	3	0.12
(1,123)	1:43:A:VAL:HA	1:11:A:GLN:H	11	0.12
(1,119)	1:10:A:PHE:HB3	1:11:A:GLN:H	4	0.12
(1,119)	1:10:A:PHE:HB3	1:11:A:GLN:H	8	0.12
(1,118)	1:12:A:ASP:HB2	1:13:A:THR:H	16	0.12
(1,117)	1:13:A:THR:HB	1:13:A:THR:H	5	0.12
(1,114)	1:11:A:GLN:HA	1:12:A:ASP:H	19	0.12
(1,112)	1:40:A:LYS:HA	1:43:A:VAL:H	15	0.12
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	9	0.12
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	16	0.12
(1,100)	1:38:A:PHE:HA	1:41:A:ALA:H	13	0.12
(1,99)	1:40:A:LYS:HA	1:41:A:ALA:H	6	0.12
(1,99)	1:40:A:LYS:HA	1:41:A:ALA:H	8	0.12
(1,99)	1:40:A:LYS:HA	1:41:A:ALA:H	9	0.12
(1,99)	1:40:A:LYS:HA	1:41:A:ALA:H	18	0.12
(1,99)	1:40:A:LYS:HA	1:41:A:ALA:H	19	0.12
(1,97)	1:36:A:CYS:HA	1:39:A:CYS:H	17	0.12
(1,88)	1:49:A:ILE:HB	1:50:A:SER:H	4	0.12
(1,88)	1:49:A:ILE:HB	1:50:A:SER:H	15	0.12
(1,88)	1:49:A:ILE:HB	1:50:A:SER:H	17	0.12
(1,73)	1:44:A:LYS:HA	1:45:A:SER:H	5	0.12
(1,70)	1:48:A:LYS:HA	1:49:A:ILE:H	11	0.12
(1,70)	1:48:A:LYS:HA	1:49:A:ILE:H	13	0.12
(1,68)	1:42:A:ILE:HA	1:49:A:ILE:H	4	0.12
(1,58)	1:35:A:LYS:HA	1:37:A:ALA:H	13	0.12
(1,57)	1:32:A:TYR:HB2	1:33:A:GLY:H	3	0.12
(1,57)	1:32:A:TYR:HB2	1:33:A:GLY:H	7	0.12
(1,380)	1:39:A:CYS:HA	1:42:A:ILE:HB	7	0.11
(1,380)	1:39:A:CYS:HA	1:42:A:ILE:HB	16	0.11
(1,380)	1:39:A:CYS:HA	1:42:A:ILE:HB	20	0.11
(1,370)	1:39:A:CYS:HA	1:42:A:ILE:HB	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,370)	1:39:A:CYS:HA	1:42:A:ILE:HB	16	0.11
(1,370)	1:39:A:CYS:HA	1:42:A:ILE:HB	20	0.11
(1,362)	1:27:A:SER:HA	1:52:A:LYS:H	8	0.11
(1,354)	1:52:A:LYS:H	1:27:A:SER:H	11	0.11
(1,347)	1:29:A:GLY:H	1:27:A:SER:H	5	0.11
(1,347)	1:29:A:GLY:H	1:27:A:SER:H	6	0.11
(1,347)	1:29:A:GLY:H	1:27:A:SER:H	16	0.11
(1,347)	1:29:A:GLY:H	1:27:A:SER:H	19	0.11
(1,345)	1:30:A:GLN:H	1:28:A:ASP:H	13	0.11
(1,343)	1:33:A:GLY:HA2	1:33:A:GLY:H	7	0.11
(1,343)	1:33:A:GLY:HA2	1:33:A:GLY:H	9	0.11
(1,343)	1:33:A:GLY:HA2	1:33:A:GLY:H	14	0.11
(1,343)	1:33:A:GLY:HA2	1:33:A:GLY:H	17	0.11
(1,332)	1:18:A:THR:HB	1:18:A:THR:H	7	0.11
(1,324)	1:26:A:GLY:H	1:25:A:CYS:H	4	0.11
(1,322)	1:15:A:VAL:H	1:16:A:TYR:H	2	0.11
(1,320)	1:11:A:GLN:H	1:10:A:PHE:H	15	0.11
(1,318)	1:27:A:SER:H	1:50:A:SER:H	17	0.11
(1,312)	1:55:A:GLY:HA2	1:56:A:LYS:H	11	0.11
(1,310)	1:55:A:GLY:HA3	1:56:A:LYS:H	6	0.11
(1,303)	1:10:A:PHE:HA	1:11:A:GLN:H	7	0.11
(1,300)	1:49:A:ILE:H	1:47:A:GLY:H	13	0.11
(1,300)	1:49:A:ILE:H	1:47:A:GLY:H	19	0.11
(1,272)	1:44:A:LYS:HA	1:44:A:LYS:H	2	0.11
(1,226)	1:39:A:CYS:HB3	1:39:A:CYS:H	2	0.11
(1,216)	1:42:A:ILE:HG12	1:42:A:ILE:H	3	0.11
(1,216)	1:42:A:ILE:HG12	1:42:A:ILE:H	12	0.11
(1,216)	1:42:A:ILE:HG12	1:42:A:ILE:H	14	0.11
(1,200)	1:30:A:GLN:HA	1:30:A:GLN:H	15	0.11
(1,192)	1:18:A:THR:HA	1:20:A:GLU:H	14	0.11
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	10	0.11
(1,173)	1:29:A:GLY:HA2	1:30:A:GLN:H	15	0.11
(1,155)	1:16:A:TYR:HB3	1:17:A:CYS:H	13	0.11
(1,152)	1:6:A:ASP:HB2	1:7:A:CYS:H	1	0.11
(1,151)	1:16:A:TYR:HA	1:7:A:CYS:H	14	0.11
(1,149)	1:7:A:CYS:HA	1:9:A:GLU:H	17	0.11
(1,148)	1:9:A:GLU:HA	1:10:A:PHE:H	3	0.11
(1,148)	1:9:A:GLU:HA	1:10:A:PHE:H	12	0.11
(1,148)	1:9:A:GLU:HA	1:10:A:PHE:H	19	0.11
(1,143)	1:7:A:CYS:HA	1:10:A:PHE:H	14	0.11
(1,124)	1:12:A:ASP:HA	1:13:A:THR:H	12	0.11
(1,123)	1:43:A:VAL:HA	1:11:A:GLN:H	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,121)	1:10:A:PHE:HB2	1:11:A:GLN:H	10	0.11
(1,119)	1:10:A:PHE:HB3	1:11:A:GLN:H	5	0.11
(1,119)	1:10:A:PHE:HB3	1:11:A:GLN:H	18	0.11
(1,118)	1:12:A:ASP:HB2	1:13:A:THR:H	13	0.11
(1,117)	1:13:A:THR:HB	1:13:A:THR:H	14	0.11
(1,112)	1:40:A:LYS:HA	1:43:A:VAL:H	7	0.11
(1,111)	1:39:A:CYS:HA	1:43:A:VAL:H	4	0.11
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	15	0.11
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	17	0.11
(1,99)	1:40:A:LYS:HA	1:41:A:ALA:H	4	0.11
(1,99)	1:40:A:LYS:HA	1:41:A:ALA:H	16	0.11
(1,88)	1:49:A:ILE:HB	1:50:A:SER:H	12	0.11
(1,77)	1:43:A:VAL:HA	1:47:A:GLY:H	13	0.11
(1,68)	1:42:A:ILE:HA	1:49:A:ILE:H	16	0.11
(1,57)	1:32:A:TYR:HB2	1:33:A:GLY:H	16	0.11
(1,42)	1:3:A:GLY:HA3	1:4:A:GLN:H	18	0.11
(1,41)	1:22:A:ASN:HB2	1:35:A:LYS:H	11	0.11
(1,38)	1:40:A:LYS:HB2	1:41:A:ALA:H	14	0.11
(1,9)	1:9:A:GLU:HB3	1:10:A:PHE:H	8	0.11
(1,345)	1:30:A:GLN:H	1:28:A:ASP:H	17	0.1
(1,343)	1:33:A:GLY:HA2	1:33:A:GLY:H	18	0.1
(1,320)	1:11:A:GLN:H	1:10:A:PHE:H	17	0.1
(1,315)	1:16:A:TYR:H	1:17:A:CYS:H	2	0.1
(1,315)	1:16:A:TYR:H	1:17:A:CYS:H	17	0.1
(1,302)	1:30:A:GLN:H	1:26:A:GLY:H	11	0.1
(1,282)	1:34:A:ASN:H	1:37:A:ALA:H	4	0.1
(1,272)	1:44:A:LYS:HA	1:44:A:LYS:H	7	0.1
(1,272)	1:44:A:LYS:HA	1:44:A:LYS:H	20	0.1
(1,226)	1:39:A:CYS:HB3	1:39:A:CYS:H	4	0.1
(1,216)	1:42:A:ILE:HG12	1:42:A:ILE:H	18	0.1
(1,211)	1:43:A:VAL:HB	1:43:A:VAL:H	6	0.1
(1,200)	1:30:A:GLN:HA	1:30:A:GLN:H	8	0.1
(1,200)	1:30:A:GLN:HA	1:30:A:GLN:H	11	0.1
(1,200)	1:30:A:GLN:HA	1:30:A:GLN:H	19	0.1
(1,192)	1:18:A:THR:HA	1:20:A:GLU:H	13	0.1
(1,185)	1:36:A:CYS:HB3	1:18:A:THR:H	10	0.1
(1,162)	1:24:A:HIS:HB2	1:25:A:CYS:H	12	0.1
(1,149)	1:7:A:CYS:HA	1:9:A:GLU:H	10	0.1
(1,148)	1:9:A:GLU:HA	1:10:A:PHE:H	9	0.1
(1,131)	1:13:A:THR:HB	1:14:A:LYS:H	1	0.1
(1,131)	1:13:A:THR:HB	1:14:A:LYS:H	12	0.1
(1,129)	1:15:A:VAL:HB	1:16:A:TYR:H	4	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,129)	1:15:A:VAL:HB	1:16:A:TYR:H	8	0.1
(1,119)	1:10:A:PHE:HB3	1:11:A:GLN:H	16	0.1
(1,119)	1:10:A:PHE:HB3	1:11:A:GLN:H	20	0.1
(1,112)	1:40:A:LYS:HA	1:43:A:VAL:H	11	0.1
(1,102)	1:43:A:VAL:HA	1:44:A:LYS:H	13	0.1
(1,99)	1:40:A:LYS:HA	1:41:A:ALA:H	2	0.1
(1,99)	1:40:A:LYS:HA	1:41:A:ALA:H	10	0.1
(1,99)	1:40:A:LYS:HA	1:41:A:ALA:H	14	0.1
(1,99)	1:40:A:LYS:HA	1:41:A:ALA:H	17	0.1
(1,70)	1:48:A:LYS:HA	1:49:A:ILE:H	8	0.1
(1,68)	1:42:A:ILE:HA	1:49:A:ILE:H	20	0.1
(1,65)	1:12:A:ASP:HB3	1:12:A:ASP:H	1	0.1
(1,58)	1:35:A:LYS:HA	1:37:A:ALA:H	3	0.1
(1,58)	1:35:A:LYS:HA	1:37:A:ALA:H	18	0.1
(1,44)	1:35:A:LYS:HA	1:38:A:PHE:H	20	0.1
(1,9)	1:9:A:GLU:HB3	1:10:A:PHE:H	4	0.1
(1,9)	1:9:A:GLU:HB3	1:10:A:PHE:H	14	0.1

10 Dihedral-angle violation analysis ⓘ

No dihedral-angle restraints found