



Full wwPDB NMR Structure Validation Report ⓘ

Mar 5, 2026 – 12:49 PM UTC

PDB ID : 6D53 / pdb_00006d53
BMRB ID : 19462
Title : Trans form of HemolysinII c-terminal domain
Authors : Kaplan, A.R.; Alexandrescu, A.T.; Olson, R.
Deposited on : 2018-04-19

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

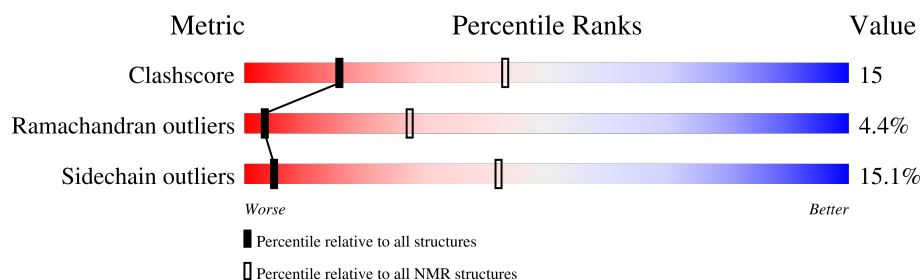
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 49%.

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	C	98	<div> <div>53%</div> <div>33%</div> <div>• 8% •</div> </div>

2 Ensemble composition and analysis

This entry contains 25 models. Model 2 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *closest to the average*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	C:9-C:94 (86)	0.82	2

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

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

The models can be grouped into 2 clusters and 1 single-model cluster was found.

Cluster number	Models
1	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 22, 23, 24
2	1, 14, 21
Single-model clusters	25

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1460 atoms, of which 728 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Hemolysin II.

Mol	Chain	Residues	Atoms						Trace
1	C	94	Total	C	H	N	O	S	0
			1460	454	728	126	150	2	

There are 4 discrepancies between the modelled and reference sequences:

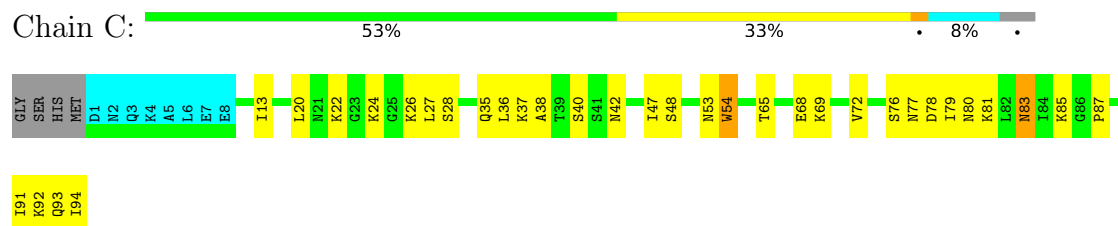
Chain	Residue	Modelled	Actual	Comment	Reference
C	-3	GLY	-	expression tag	UNP Q81AN8
C	-2	SER	-	expression tag	UNP Q81AN8
C	-1	HIS	-	expression tag	UNP Q81AN8
C	0	MET	-	expression tag	UNP Q81AN8

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Hemolysin II

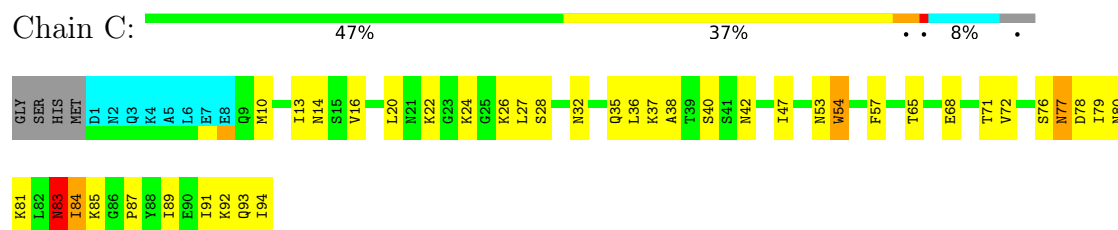


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

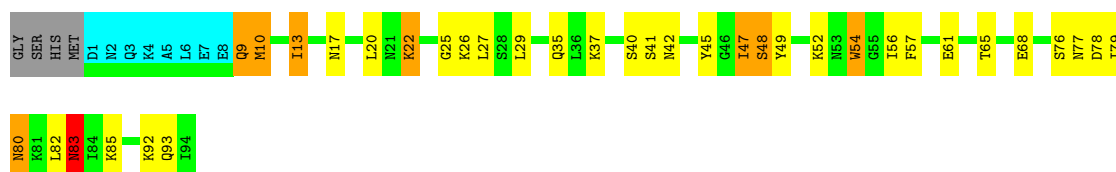
- Molecule 1: Hemolysin II



4.2.2 Score per residue for model 2 (medoid)

- Molecule 1: Hemolysin II

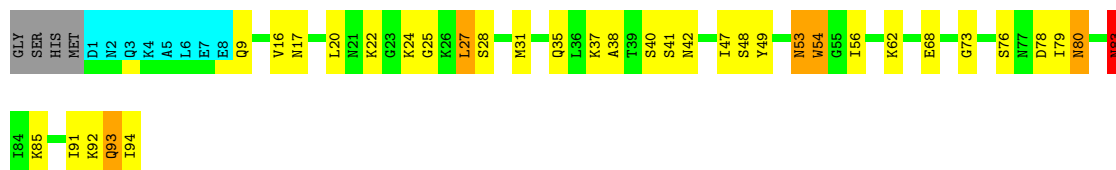




4.2.3 Score per residue for model 3

- Molecule 1: Hemolysin II

Chain C: 52% 30% 5% 8%



4.2.4 Score per residue for model 4

- Molecule 1: Hemolysin II

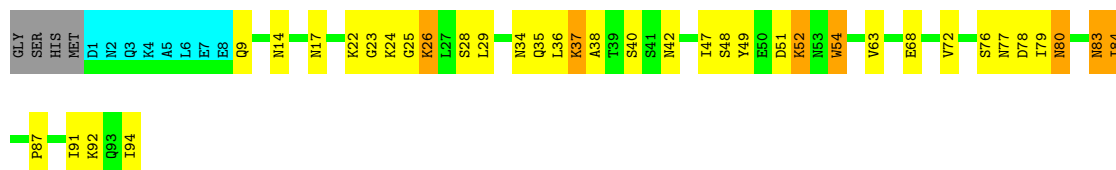
Chain C: 52% 33% 8%



4.2.5 Score per residue for model 5

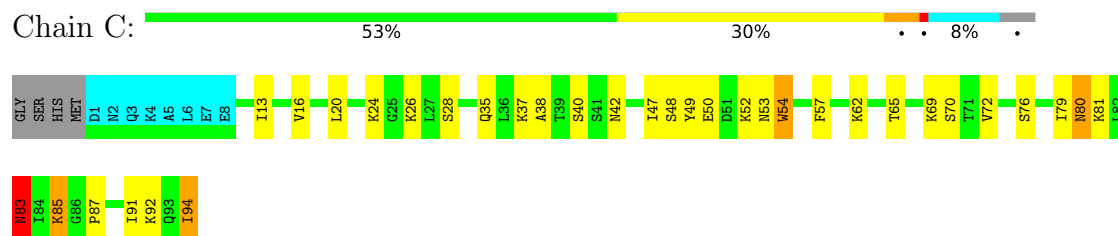
- Molecule 1: Hemolysin II

Chain C: 50% 31% 7% 8%



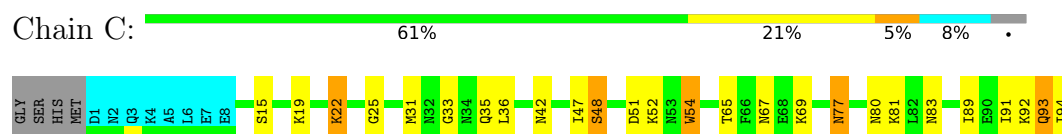
4.2.6 Score per residue for model 6

- Molecule 1: Hemolysin II



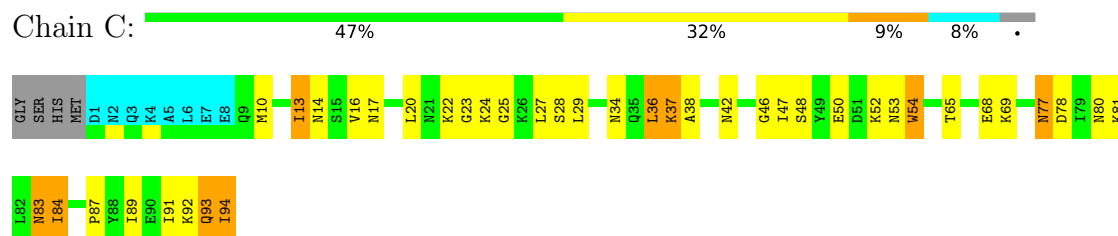
4.2.7 Score per residue for model 7

- Molecule 1: Hemolysin II



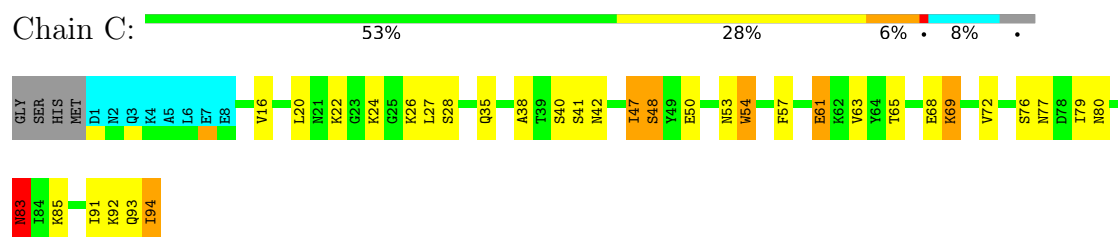
4.2.8 Score per residue for model 8

- Molecule 1: Hemolysin II



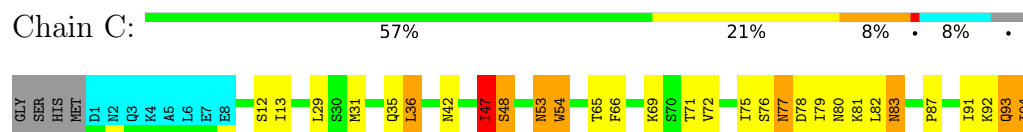
4.2.9 Score per residue for model 9

- Molecule 1: Hemolysin II



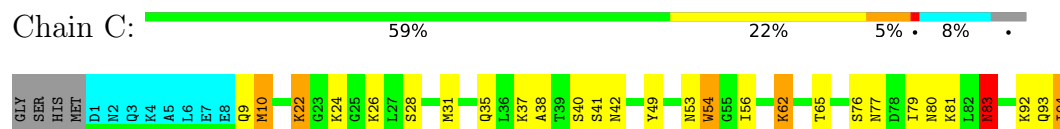
4.2.10 Score per residue for model 10

- Molecule 1: Hemolysin II



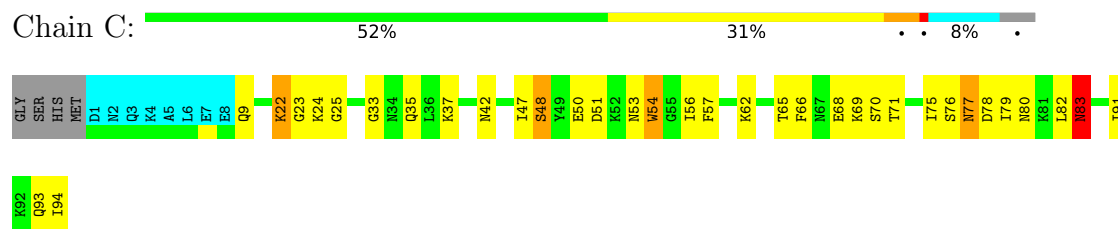
4.2.11 Score per residue for model 11

- Molecule 1: Hemolysin II



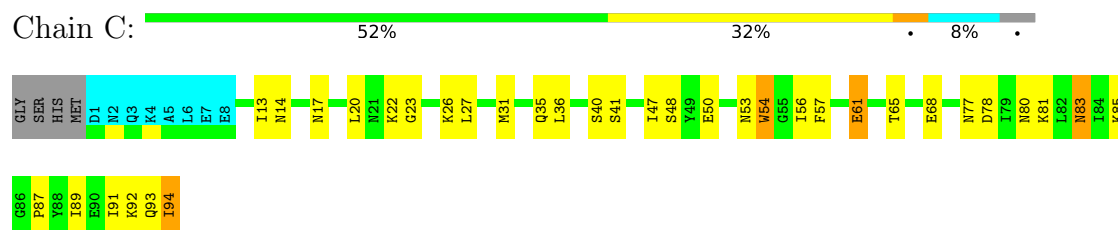
4.2.12 Score per residue for model 12

- Molecule 1: Hemolysin II



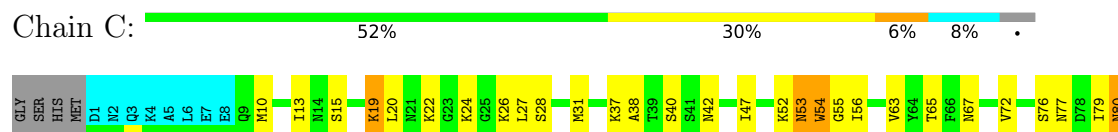
4.2.13 Score per residue for model 13

- Molecule 1: Hemolysin II



4.2.14 Score per residue for model 14

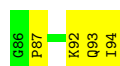
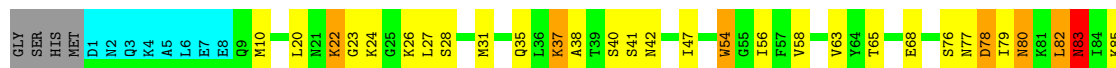
- Molecule 1: Hemolysin II





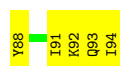
4.2.15 Score per residue for model 15

- Molecule 1: Hemolysin II



4.2.16 Score per residue for model 16

- Molecule 1: Hemolysin II



4.2.17 Score per residue for model 17

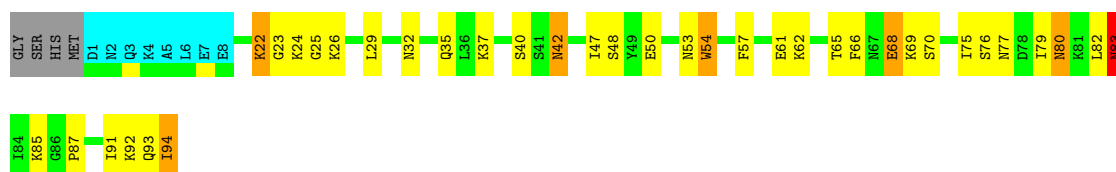
- Molecule 1: Hemolysin II



4.2.18 Score per residue for model 18

- Molecule 1: Hemolysin II

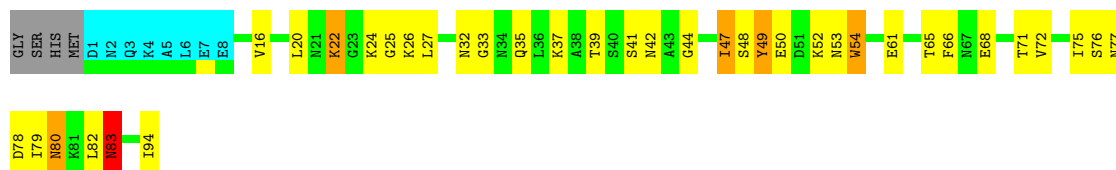




4.2.19 Score per residue for model 19

- Molecule 1: Hemolysin II

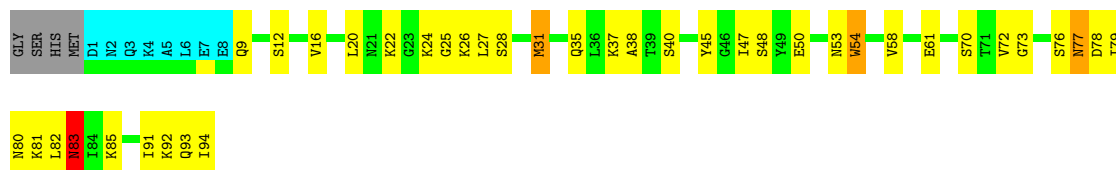
Chain C: 50% 32% 5% 8%



4.2.20 Score per residue for model 20

- Molecule 1: Hemolysin II

Chain C: 48% 36% 8%



4.2.21 Score per residue for model 21

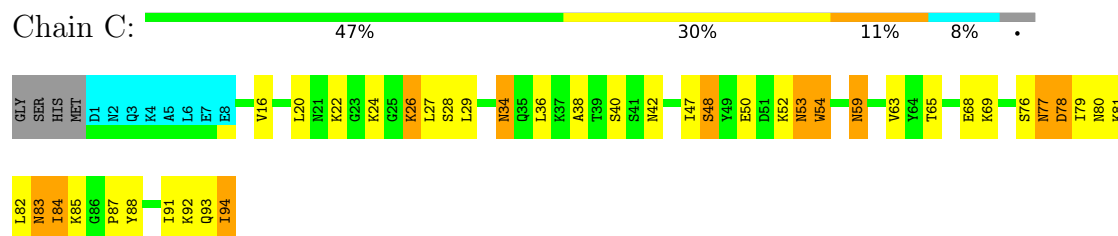
- Molecule 1: Hemolysin II

Chain C: 54% 32% 8%



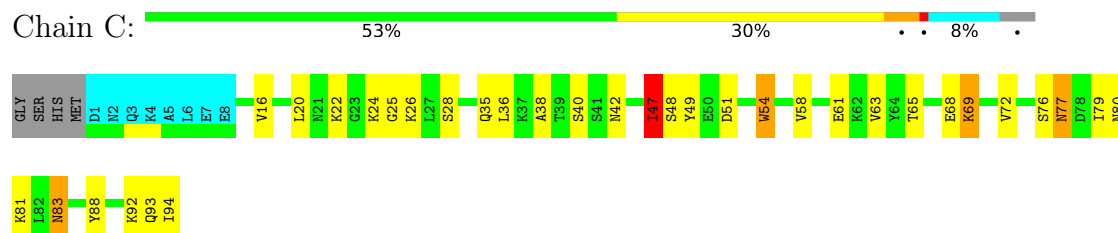
4.2.22 Score per residue for model 22

- Molecule 1: Hemolysin II



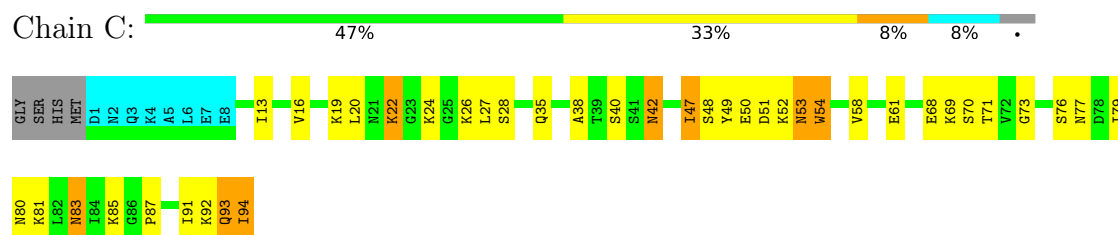
4.2.23 Score per residue for model 23

- Molecule 1: Hemolysin II



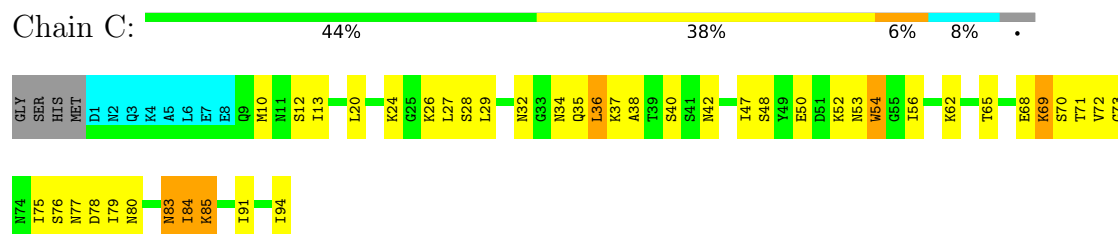
4.2.24 Score per residue for model 24

- Molecule 1: Hemolysin II



4.2.25 Score per residue for model 25

- Molecule 1: Hemolysin II



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 25 were deposited, based on the following criterion: *structures with the least restraint violations*.

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

Software name	Classification	Version
TALOS-N	geometry optimization	
XPLOR NIH	structure calculation	
ARIA	refinement	2.3

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	572
Number of shifts mapped to atoms	572
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	49%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	C	0.51±0.02	0±0/675 (0.0± 0.0%)	0.76±0.02	0±0/903 (0.0± 0.1%)
All	All	0.51	0/16875 (0.0%)	0.76	8/22575 (0.0%)

There are no bond-length outliers.

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	C	47	ILE	CB-CA-C	-6.88	105.86	111.71	24	8

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	C	667	669	669	20±4
All	All	16675	16725	16725	488

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 15.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:77:ASN:ND2	1:C:80:ASN:HD22	0.72	1.82	1	12

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:53:ASN:ND2	1:C:94:ILE:HG13	0.72	2.00	8	8
1:C:28:SER:O	1:C:38:ALA:HA	0.67	1.90	22	17
1:C:26:LYS:O	1:C:40:SER:HA	0.66	1.91	13	18
1:C:47:ILE:HD13	1:C:52:LYS:HG2	0.66	1.68	25	1
1:C:22:LYS:HZ1	1:C:47:ILE:HG23	0.65	1.52	17	3
1:C:35:GLN:HG3	1:C:83:ASN:ND2	0.64	2.06	18	19
1:C:54:TRP:CD1	1:C:68:GLU:HG3	0.64	2.27	9	5
1:C:77:ASN:HD22	1:C:80:ASN:ND2	0.63	1.90	25	4
1:C:24:LYS:O	1:C:26:LYS:HE2	0.63	1.94	6	9
1:C:22:LYS:NZ	1:C:47:ILE:HG23	0.62	2.10	19	6
1:C:22:LYS:NZ	1:C:24:LYS:HB2	0.61	2.10	11	1
1:C:77:ASN:O	1:C:81:LYS:HG2	0.60	1.96	7	3
1:C:52:LYS:HB2	1:C:68:GLU:CD	0.60	2.21	2	1
1:C:78:ASP:O	1:C:81:LYS:HG2	0.60	1.96	17	4
1:C:24:LYS:HB3	1:C:47:ILE:O	0.59	1.97	19	6
1:C:36:LEU:CB	1:C:84:ILE:HG13	0.59	2.28	1	1
1:C:76:SER:O	1:C:79:ILE:HB	0.58	1.99	5	22
1:C:20:LEU:HD13	1:C:27:LEU:HB3	0.58	1.75	25	5
1:C:25:GLY:HA3	1:C:45:TYR:O	0.57	1.99	2	2
1:C:54:TRP:O	1:C:65:THR:HG23	0.57	1.99	11	19
1:C:50:GLU:O	1:C:69:LYS:HD2	0.57	1.99	12	3
1:C:26:LYS:HB2	1:C:41:SER:H	0.57	1.58	13	1
1:C:24:LYS:HB2	1:C:47:ILE:O	0.57	1.99	22	2
1:C:77:ASN:HA	1:C:80:ASN:ND2	0.57	2.14	24	13
1:C:56:ILE:O	1:C:62:LYS:HA	0.56	1.99	4	4
1:C:32:ASN:O	1:C:35:GLN:HG2	0.56	1.99	17	2
1:C:20:LEU:HD13	1:C:27:LEU:HB2	0.56	1.77	4	5
1:C:47:ILE:HD12	1:C:50:GLU:O	0.56	2.00	18	8
1:C:16:VAL:O	1:C:20:LEU:HG	0.56	2.01	3	6
1:C:47:ILE:HG12	1:C:68:GLU:CB	0.55	2.31	24	1
1:C:10:MET:O	1:C:13:ILE:HG22	0.55	2.01	25	1
1:C:34:ASN:HA	1:C:84:ILE:O	0.55	2.02	17	5
1:C:50:GLU:O	1:C:69:LYS:HB3	0.55	2.02	9	4
1:C:47:ILE:HG21	1:C:68:GLU:HG2	0.55	1.78	19	1
1:C:47:ILE:HD12	1:C:48:SER:H	0.54	1.62	10	1
1:C:15:SER:O	1:C:19:LYS:HG2	0.54	2.02	14	1
1:C:47:ILE:HD11	1:C:68:GLU:HG2	0.54	1.77	3	1
1:C:77:ASN:O	1:C:81:LYS:HG3	0.54	2.02	13	4
1:C:9:GLN:HG3	1:C:31:MET:SD	0.53	2.43	3	2
1:C:40:SER:OG	1:C:73:GLY:HA2	0.53	2.04	24	4
1:C:29:LEU:HG	1:C:91:ILE:HG21	0.53	1.80	17	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:58:VAL:O	1:C:61:GLU:HG2	0.52	2.04	20	5
1:C:37:LYS:HA	1:C:80:ASN:OD1	0.52	2.05	5	9
1:C:22:LYS:HD2	1:C:23:GLY:N	0.52	2.19	15	1
1:C:32:ASN:OD1	1:C:37:LYS:HE3	0.52	2.03	18	1
1:C:53:ASN:O	1:C:93:GLN:HB2	0.52	2.05	10	3
1:C:51:ASP:O	1:C:52:LYS:HD2	0.51	2.04	4	1
1:C:47:ILE:CD1	1:C:52:LYS:HG2	0.51	2.35	22	1
1:C:54:TRP:CZ3	1:C:91:ILE:HG22	0.51	2.41	21	3
1:C:9:GLN:HG2	1:C:31:MET:SD	0.51	2.45	20	1
1:C:62:LYS:HE2	1:C:65:THR:OG1	0.51	2.04	25	1
1:C:36:LEU:HB3	1:C:84:ILE:HG13	0.51	1.82	1	1
1:C:35:GLN:OE1	1:C:37:LYS:HB3	0.51	2.05	18	1
1:C:47:ILE:HD11	1:C:68:GLU:HB3	0.50	1.83	12	3
1:C:48:SER:HB2	1:C:68:GLU:OE2	0.50	2.05	21	1
1:C:40:SER:OG	1:C:72:VAL:HB	0.50	2.06	9	3
1:C:77:ASN:ND2	1:C:80:ASN:ND2	0.49	2.59	25	4
1:C:47:ILE:O	1:C:48:SER:HB2	0.49	2.06	10	6
1:C:13:ILE:HG13	1:C:14:ASN:N	0.49	2.22	1	1
1:C:47:ILE:HG12	1:C:68:GLU:O	0.49	2.07	17	2
1:C:41:SER:O	1:C:42:ASN:HB2	0.49	2.08	9	3
1:C:47:ILE:CG1	1:C:68:GLU:HB2	0.49	2.37	25	1
1:C:9:GLN:HE21	1:C:9:GLN:N	0.49	2.05	2	1
1:C:57:PHE:HA	1:C:61:GLU:O	0.49	2.08	21	5
1:C:24:LYS:HG3	1:C:42:ASN:OD1	0.49	2.07	18	1
1:C:51:ASP:CG	1:C:69:LYS:HE2	0.49	2.32	24	1
1:C:80:ASN:HD22	1:C:80:ASN:N	0.49	2.05	14	6
1:C:20:LEU:HD21	1:C:54:TRP:CZ2	0.49	2.42	13	3
1:C:36:LEU:HB2	1:C:84:ILE:H	0.49	1.67	17	4
1:C:54:TRP:CH2	1:C:91:ILE:HG12	0.49	2.41	20	6
1:C:84:ILE:HD11	1:C:89:ILE:HD12	0.49	1.84	17	1
1:C:16:VAL:HG11	1:C:91:ILE:HB	0.49	1.84	1	1
1:C:22:LYS:HZ2	1:C:24:LYS:HB2	0.48	1.68	11	1
1:C:79:ILE:HA	1:C:82:LEU:CD1	0.48	2.39	19	3
1:C:52:LYS:O	1:C:67:ASN:HA	0.48	2.09	7	2
1:C:66:PHE:CD1	1:C:75:ILE:HG21	0.48	2.44	12	3
1:C:78:ASP:O	1:C:82:LEU:HG	0.47	2.09	10	6
1:C:50:GLU:CG	1:C:52:LYS:HE3	0.47	2.39	19	1
1:C:13:ILE:O	1:C:16:VAL:HB	0.47	2.09	24	3
1:C:24:LYS:HG2	1:C:46:GLY:O	0.47	2.08	8	1
1:C:22:LYS:HE2	1:C:25:GLY:O	0.47	2.09	17	1
1:C:32:ASN:OD1	1:C:37:LYS:HE2	0.47	2.09	21	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:22:LYS:HZ2	1:C:47:ILE:HG23	0.47	1.66	19	1
1:C:47:ILE:CD1	1:C:68:GLU:HG2	0.47	2.39	3	1
1:C:31:MET:SD	1:C:89:ILE:HB	0.47	2.49	7	2
1:C:47:ILE:HD11	1:C:68:GLU:HB2	0.47	1.86	4	1
1:C:47:ILE:CG1	1:C:68:GLU:HB3	0.47	2.40	9	2
1:C:53:ASN:O	1:C:94:ILE:HG12	0.47	2.09	14	1
1:C:84:ILE:HD11	1:C:89:ILE:HG12	0.47	1.87	8	1
1:C:36:LEU:HD13	1:C:37:LYS:N	0.47	2.24	17	1
1:C:53:ASN:HD22	1:C:94:ILE:HG13	0.46	1.70	10	3
1:C:51:ASP:C	1:C:52:LYS:HD2	0.46	2.35	7	1
1:C:20:LEU:HD13	1:C:27:LEU:HG	0.46	1.86	22	1
1:C:27:LEU:HG	1:C:76:SER:OG	0.46	2.10	25	2
1:C:29:LEU:HD21	1:C:91:ILE:HB	0.46	1.87	5	1
1:C:10:MET:HA	1:C:10:MET:HE2	0.46	1.87	11	2
1:C:54:TRP:CH2	1:C:91:ILE:HG22	0.46	2.46	21	5
1:C:44:GLY:O	1:C:71:THR:HB	0.46	2.10	19	1
1:C:13:ILE:HG21	1:C:31:MET:HE1	0.46	1.87	14	1
1:C:14:ASN:HA	1:C:17:ASN:OD1	0.46	2.11	17	1
1:C:53:ASN:O	1:C:93:GLN:HB3	0.46	2.10	24	1
1:C:31:MET:SD	1:C:31:MET:N	0.46	2.89	10	1
1:C:54:TRP:HH2	1:C:91:ILE:HG22	0.46	1.71	17	1
1:C:32:ASN:HB2	1:C:35:GLN:OE1	0.46	2.10	25	1
1:C:24:LYS:HB3	1:C:46:GLY:O	0.45	2.12	21	1
1:C:37:LYS:HG3	1:C:37:LYS:O	0.45	2.11	16	4
1:C:38:ALA:O	1:C:76:SER:HB3	0.45	2.12	20	1
1:C:59:ASN:HA	1:C:88:TYR:CE2	0.45	2.47	22	1
1:C:77:ASN:HD22	1:C:80:ASN:CG	0.45	2.20	14	5
1:C:29:LEU:CD2	1:C:91:ILE:HB	0.45	2.41	5	1
1:C:20:LEU:O	1:C:26:LYS:HA	0.45	2.12	19	1
1:C:59:ASN:HD22	1:C:59:ASN:N	0.45	2.10	22	1
1:C:14:ASN:HA	1:C:17:ASN:ND2	0.45	2.27	8	2
1:C:71:THR:O	1:C:75:ILE:HG12	0.45	2.12	10	3
1:C:24:LYS:HA	1:C:42:ASN:OD1	0.45	2.11	24	1
1:C:26:LYS:HD2	1:C:41:SER:HB3	0.44	1.90	2	2
1:C:54:TRP:HA	1:C:93:GLN:CB	0.44	2.42	8	1
1:C:37:LYS:HA	1:C:80:ASN:CG	0.44	2.37	25	3
1:C:91:ILE:HG23	1:C:91:ILE:O	0.44	2.12	7	9
1:C:26:LYS:HB2	1:C:41:SER:N	0.44	2.27	13	1
1:C:36:LEU:CD1	1:C:79:ILE:HG22	0.44	2.43	5	1
1:C:15:SER:O	1:C:19:LYS:HB2	0.44	2.12	7	1
1:C:54:TRP:CZ3	1:C:91:ILE:HG12	0.44	2.47	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:57:PHE:CE1	1:C:62:LYS:HD3	0.44	2.47	6	1
1:C:25:GLY:O	1:C:47:ILE:HD13	0.44	2.13	16	1
1:C:62:LYS:HE3	1:C:65:THR:OG1	0.44	2.13	18	1
1:C:26:LYS:CG	1:C:41:SER:HB3	0.44	2.43	2	1
1:C:35:GLN:N	1:C:84:ILE:HG22	0.44	2.28	5	2
1:C:26:LYS:CD	1:C:41:SER:HB2	0.44	2.43	15	1
1:C:66:PHE:CG	1:C:75:ILE:HG21	0.44	2.48	19	1
1:C:24:LYS:HB3	1:C:48:SER:HA	0.44	1.89	23	1
1:C:47:ILE:CD1	1:C:68:GLU:HB3	0.43	2.43	18	2
1:C:87:PRO:HG2	1:C:88:TYR:CD2	0.43	2.48	16	1
1:C:51:ASP:HA	1:C:69:LYS:HD3	0.43	1.90	23	1
1:C:27:LEU:CD2	1:C:38:ALA:HB1	0.43	2.43	16	1
1:C:47:ILE:CD1	1:C:48:SER:H	0.43	2.25	2	1
1:C:56:ILE:HD12	1:C:56:ILE:N	0.43	2.28	15	3
1:C:47:ILE:HD11	1:C:52:LYS:HG2	0.43	1.89	6	1
1:C:48:SER:O	1:C:49:TYR:HB3	0.43	2.13	19	1
1:C:22:LYS:HE3	1:C:47:ILE:HG12	0.43	1.89	4	1
1:C:53:ASN:HD21	1:C:94:ILE:HG13	0.43	1.74	24	1
1:C:27:LEU:HG	1:C:72:VAL:CG1	0.43	2.44	4	2
1:C:38:ALA:H	1:C:80:ASN:CG	0.43	2.22	21	1
1:C:31:MET:HG2	1:C:36:LEU:CD2	0.43	2.44	7	1
1:C:50:GLU:O	1:C:69:LYS:HD3	0.43	2.14	24	1
1:C:22:LYS:HD2	1:C:22:LYS:C	0.43	2.39	2	1
1:C:36:LEU:HB2	1:C:84:ILE:HG12	0.43	1.89	22	1
1:C:31:MET:CG	1:C:36:LEU:HD23	0.43	2.44	13	1
1:C:37:LYS:HD2	1:C:37:LYS:O	0.42	2.13	8	1
1:C:52:LYS:CG	1:C:68:GLU:HB2	0.42	2.44	8	1
1:C:36:LEU:HD23	1:C:84:ILE:HG13	0.42	1.89	22	1
1:C:55:GLY:C	1:C:56:ILE:HD12	0.42	2.39	14	1
1:C:51:ASP:O	1:C:52:LYS:HD3	0.42	2.15	5	1
1:C:47:ILE:HG12	1:C:68:GLU:HB2	0.42	1.90	24	1
1:C:51:ASP:OD1	1:C:69:LYS:HD3	0.42	2.14	12	1
1:C:22:LYS:HE3	1:C:24:LYS:O	0.42	2.14	24	2
1:C:20:LEU:O	1:C:22:LYS:HG2	0.42	2.15	13	1
1:C:26:LYS:HD2	1:C:41:SER:HB2	0.42	1.92	19	2
1:C:22:LYS:HE3	1:C:47:ILE:HD13	0.42	1.92	7	1
1:C:47:ILE:HB	1:C:68:GLU:HG2	0.42	1.92	21	1
1:C:20:LEU:CD1	1:C:27:LEU:HB2	0.42	2.45	24	1
1:C:13:ILE:HD13	1:C:31:MET:SD	0.41	2.55	10	1
1:C:26:LYS:CD	1:C:41:SER:HB3	0.41	2.45	2	1
1:C:52:LYS:HG3	1:C:68:GLU:OE1	0.41	2.16	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:27:LEU:HA	1:C:39:THR:O	0.41	2.14	19	1
1:C:77:ASN:HD22	1:C:80:ASN:HD22	0.41	1.56	1	1
1:C:22:LYS:HZ1	1:C:47:ILE:HD12	0.41	1.74	15	1
1:C:58:VAL:HG23	1:C:63:VAL:HG11	0.41	1.93	15	1
1:C:85:LYS:HD2	1:C:85:LYS:C	0.41	2.41	25	1
1:C:14:ASN:O	1:C:17:ASN:HB2	0.41	2.15	13	2
1:C:47:ILE:HD12	1:C:69:LYS:HB3	0.41	1.92	25	1
1:C:47:ILE:HG13	1:C:68:GLU:HG2	0.41	1.93	19	1
1:C:12:SER:O	1:C:16:VAL:HG23	0.41	2.16	20	1
1:C:27:LEU:N	1:C:27:LEU:HD23	0.41	2.30	22	1
1:C:31:MET:HG3	1:C:36:LEU:CD2	0.41	2.46	10	1
1:C:47:ILE:HD13	1:C:52:LYS:HB2	0.41	1.92	24	1
1:C:13:ILE:HD13	1:C:13:ILE:H	0.41	1.74	8	1
1:C:36:LEU:HB3	1:C:84:ILE:CG1	0.41	2.45	1	1
1:C:54:TRP:HA	1:C:93:GLN:HA	0.41	1.93	7	1
1:C:45:TYR:O	1:C:72:VAL:HG23	0.41	2.16	20	1
1:C:13:ILE:HD13	1:C:17:ASN:ND2	0.40	2.32	2	1
1:C:16:VAL:HG11	1:C:91:ILE:O	0.40	2.17	6	1
1:C:26:LYS:CG	1:C:41:SER:HB2	0.40	2.46	11	1
1:C:29:LEU:HD13	1:C:91:ILE:HG23	0.40	1.93	22	1
1:C:57:PHE:O	1:C:89:ILE:HA	0.40	2.16	1	1
1:C:81:LYS:HA	1:C:81:LYS:HE2	0.40	1.91	4	2
1:C:56:ILE:N	1:C:56:ILE:HD12	0.40	2.31	25	1
1:C:32:ASN:ND2	1:C:35:GLN:HB3	0.40	2.30	19	1
1:C:47:ILE:HG13	1:C:68:GLU:C	0.40	2.40	22	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	C	85/98 (87%)	72±2 (84±3%)	9±2 (11±3%)	4±1 (4±2%)	3	27
All	All	2125/2450 (87%)	1795 (84%)	236 (11%)	94 (4%)	3	27

All 12 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	C	83	ASN	23
1	C	48	SER	17
1	C	87	PRO	12
1	C	49	TYR	8
1	C	25	GLY	8
1	C	23	GLY	7
1	C	70	SER	6
1	C	10	MET	5
1	C	33	GLY	4
1	C	24	LYS	2
1	C	85	LYS	1
1	C	84	ILE	1

6.3.2 Protein sidechains ⓘ

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	75/85 (88%)	64±2 (85±3%)	11±2 (15±3%)	5	42
All	All	1875/2125 (88%)	1592 (85%)	283 (15%)	5	42

All 41 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	C	54	TRP	25
1	C	94	ILE	24
1	C	92	LYS	21
1	C	22	LYS	20
1	C	42	ASN	20
1	C	93	GLN	20
1	C	83	ASN	18
1	C	85	LYS	14
1	C	53	ASN	11
1	C	78	ASP	10
1	C	72	VAL	9
1	C	80	ASN	9
1	C	77	ASN	8
1	C	63	VAL	7

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Mol	Chain	Res	Type	Models (Total)
1	C	13	ILE	6
1	C	37	LYS	6
1	C	84	ILE	5
1	C	29	LEU	5
1	C	69	LYS	5
1	C	36	LEU	4
1	C	71	THR	3
1	C	47	ILE	3
1	C	27	LEU	3
1	C	61	GLU	3
1	C	9	GLN	2
1	C	10	MET	2
1	C	24	LYS	2
1	C	26	LYS	2
1	C	19	LYS	2
1	C	31	MET	2
1	C	68	GLU	2
1	C	17	ASN	1
1	C	65	THR	1
1	C	52	LYS	1
1	C	62	LYS	1
1	C	57	PHE	1
1	C	82	LEU	1
1	C	16	VAL	1
1	C	34	ASN	1
1	C	59	ASN	1
1	C	12	SER	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.6 Ligand geometry

There are no ligands in this entry.

6.7 Other polymers

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 49% for the well-defined parts and 46% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list*

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	572
Number of shifts mapped to atoms	572
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	49	-0.78 ± 0.11	Should be applied
$^{13}\text{C}_\beta$	44	-0.36 ± 0.28	None needed (< 0.5 ppm)
$^{13}\text{C}'$	50	-0.22 ± 0.20	None needed (< 0.5 ppm)
^{15}N	48	-0.50 ± 0.50	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 49%, i.e. 556 atoms were assigned a chemical shift out of a possible 1141. 0 out of 9 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	240/437 (55%)	99/180 (55%)	95/172 (55%)	46/85 (54%)
Sidechain	316/636 (50%)	213/408 (52%)	92/200 (46%)	11/28 (39%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	0/68 (0%)	0/32 (0%)	0/35 (0%)	0/1 (0%)
Overall	556/1141 (49%)	312/620 (50%)	187/407 (46%)	57/114 (50%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 46%, i.e. 572 atoms were assigned a chemical shift out of a possible 1246. 0 out of 10 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	250/477 (52%)	103/196 (53%)	99/188 (53%)	48/93 (52%)
Sidechain	322/701 (46%)	217/448 (48%)	94/222 (42%)	11/31 (35%)
Aromatic	0/68 (0%)	0/32 (0%)	0/35 (0%)	0/1 (0%)
Overall	572/1246 (46%)	320/676 (47%)	193/445 (43%)	59/125 (47%)

7.1.4 Statistically unusual chemical shifts [i](#)

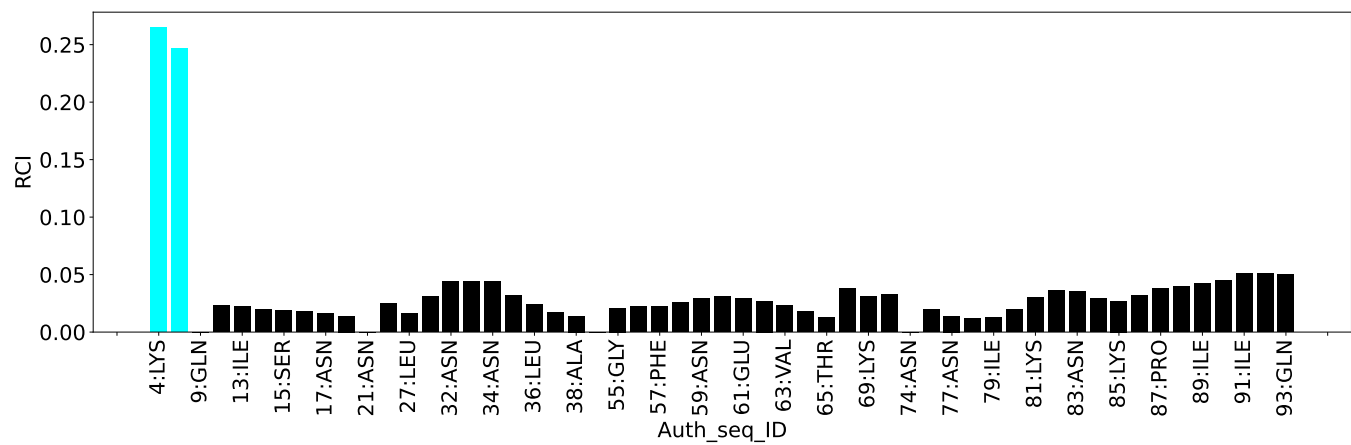
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	C	93	GLN	HG2	1.00	1.01 – 3.62	-5.0

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 C:



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	1598
Intra-residue ($ i-j =0$)	758
Sequential ($ i-j =1$)	257
Medium range ($ i-j >1$ and $ i-j <5$)	166
Long range ($ i-j \geq 5$)	373
Inter-chain	0
Hydrogen bond restraints	44
Disulfide bond restraints	0
Total dihedral-angle restraints	195
Number of unmapped restraints	0
Number of restraints per residue	18.3
Number of long range restraints per residue ¹	4.0

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)	39.6	0.2
0.2-0.5 (Medium)	36.2	0.5
>0.5 (Large)	42.6	3.15

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	13.0	4.94
10.0-20.0 (Medium)	0.0	14.63
>20.0 (Large)	3.8	119.7

9 Distance violation analysis ⓘ

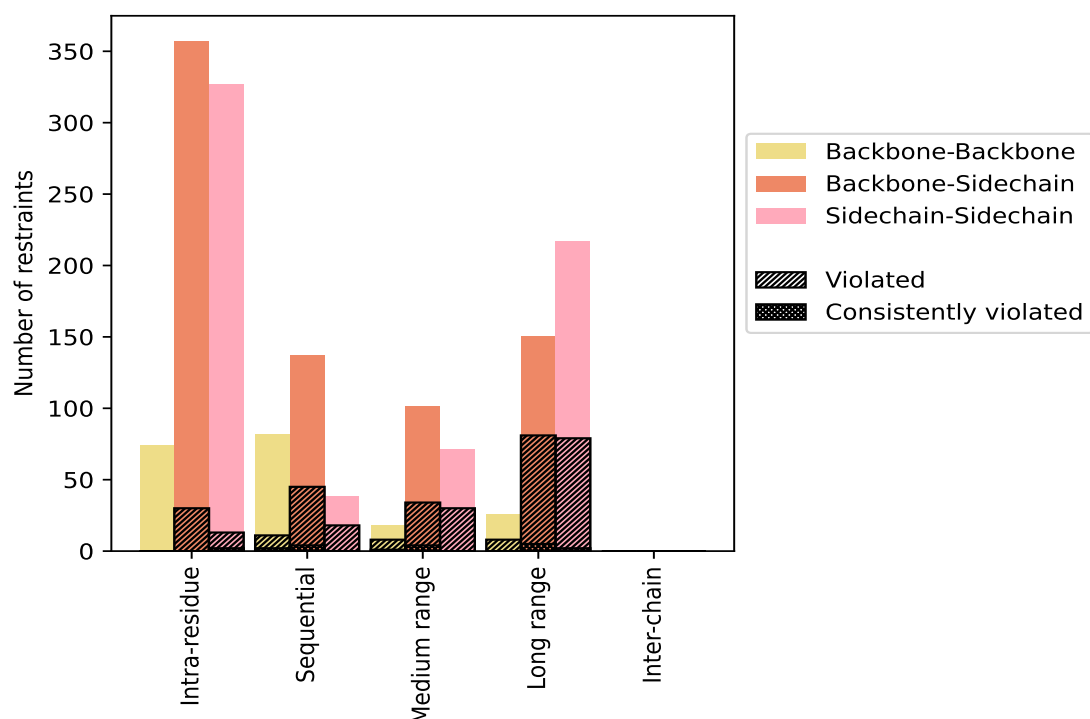
9.1 Summary of distance violations ⓘ

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)	758	47.4	43	5.7	2.7	2	0.3	0.1
Backbone-Backbone	74	4.6	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	357	22.3	30	8.4	1.9	0	0.0	0.0
Sidechain-Sidechain	327	20.5	13	4.0	0.8	2	0.6	0.1
Sequential (i-j =1)	257	16.1	74	28.8	4.6	6	2.3	0.4
Backbone-Backbone	82	5.1	11	13.4	0.7	2	2.4	0.1
Backbone-Sidechain	137	8.6	45	32.8	2.8	4	2.9	0.3
Sidechain-Sidechain	38	2.4	18	47.4	1.1	0	0.0	0.0
Medium range (i-j >1 & i-j <5)	166	10.4	71	42.8	4.4	4	2.4	0.3
Backbone-Backbone	18	1.1	8	44.4	0.5	1	5.6	0.1
Backbone-Sidechain	77	4.8	33	42.9	2.1	3	3.9	0.2
Sidechain-Sidechain	71	4.4	30	42.3	1.9	0	0.0	0.0
Long range (i-j ≥5)	373	23.3	165	44.2	10.3	7	1.9	0.4
Backbone-Backbone	26	1.6	8	30.8	0.5	0	0.0	0.0
Backbone-Sidechain	130	8.1	78	60.0	4.9	5	3.8	0.3
Sidechain-Sidechain	217	13.6	79	36.4	4.9	2	0.9	0.1
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	44	2.8	4	9.1	0.3	1	2.3	0.1
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1598	100.0	357	22.3	22.3	20	1.3	1.3
Backbone-Backbone	200	12.5	27	13.5	1.7	3	1.5	0.2
Backbone-Sidechain	745	46.6	190	25.5	11.9	13	1.7	0.8
Sidechain-Sidechain	653	40.9	140	21.4	8.8	4	0.6	0.3

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	8	31	21	70	0	130	0.56	2.39	0.49	0.35
2	10	31	26	53	0	120	0.49	1.8	0.45	0.31
3	11	28	23	56	0	118	0.54	2.37	0.48	0.37
4	8	28	29	54	0	119	0.53	1.82	0.46	0.32
5	15	26	24	64	0	129	0.58	2.37	0.52	0.35
6	11	29	24	59	0	123	0.5	3.15	0.49	0.29
7	11	26	24	55	0	116	0.51	1.8	0.49	0.28
8	15	34	24	63	0	136	0.53	1.8	0.46	0.33
9	7	26	25	64	0	122	0.51	2.3	0.47	0.29
10	11	20	24	57	0	112	0.52	2.45	0.48	0.32

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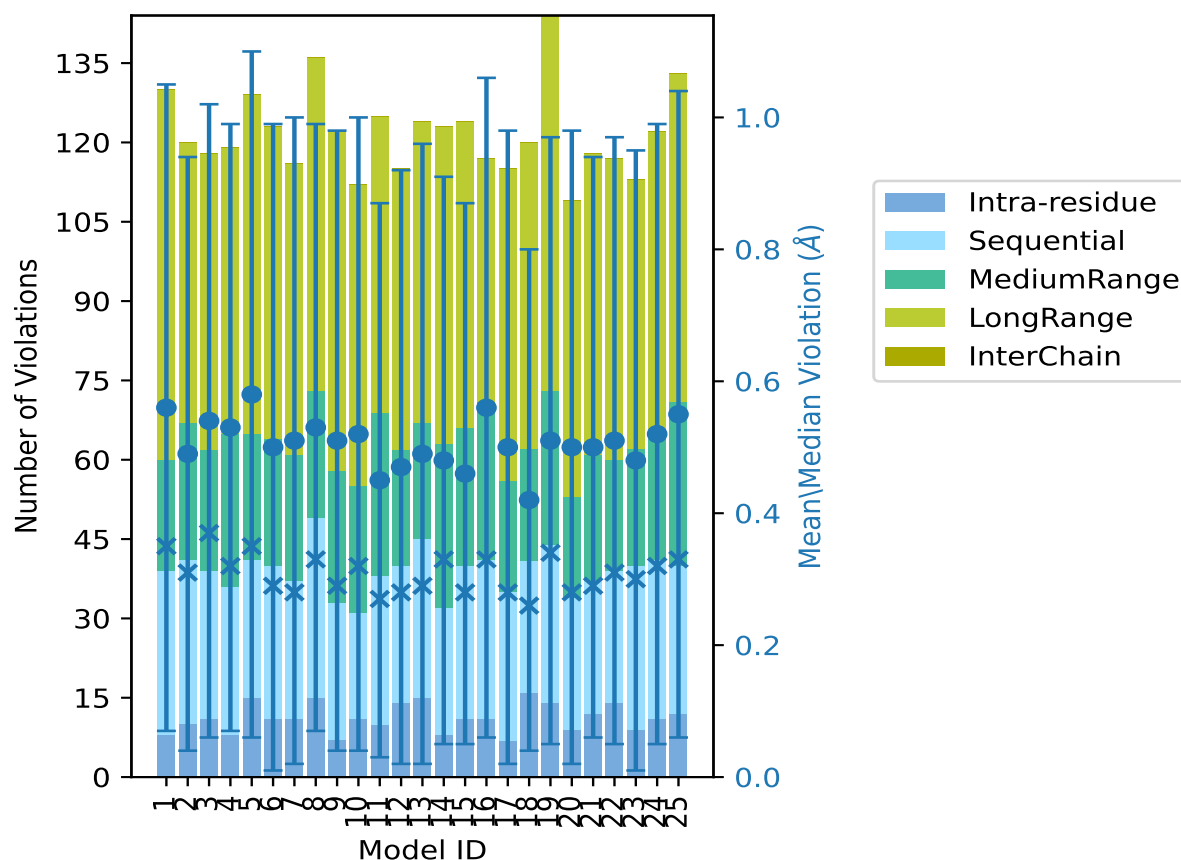
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	10	28	31	56	0	125	0.45	2.51	0.42	0.27
12	14	26	22	53	0	115	0.47	2.06	0.45	0.28
13	15	30	22	57	0	124	0.49	2.39	0.47	0.29
14	8	24	31	60	0	123	0.48	1.97	0.43	0.33
15	11	29	26	58	0	124	0.46	1.72	0.41	0.28
16	11	30	30	46	0	117	0.56	1.97	0.5	0.33
17	7	28	21	59	0	115	0.5	2.31	0.48	0.28
18	16	25	21	58	0	120	0.42	1.86	0.38	0.26
19	14	30	29	71	0	144	0.51	2.65	0.46	0.34
20	9	25	19	56	0	109	0.5	2.47	0.48	0.28
21	12	25	24	57	0	118	0.5	1.77	0.44	0.29
22	14	25	21	57	0	117	0.51	2.11	0.46	0.31
23	9	31	22	51	0	113	0.48	2.27	0.47	0.3
24	11	30	23	58	0	122	0.52	1.93	0.47	0.32
25	12	28	31	62	0	133	0.55	2.25	0.49	0.33

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

⁵Inter-chain restraints, ⁶Standard deviation

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



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

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

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1201(IR:715, SQ:183, MR:95, LR:208, 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	%
13	16	6	31	0	66	1	4.0
8	5	7	19	0	39	2	8.0
2	4	8	9	0	23	3	12.0
0	4	7	12	0	23	4	16.0
2	5	5	8	0	20	5	20.0
2	2	2	10	0	16	6	24.0

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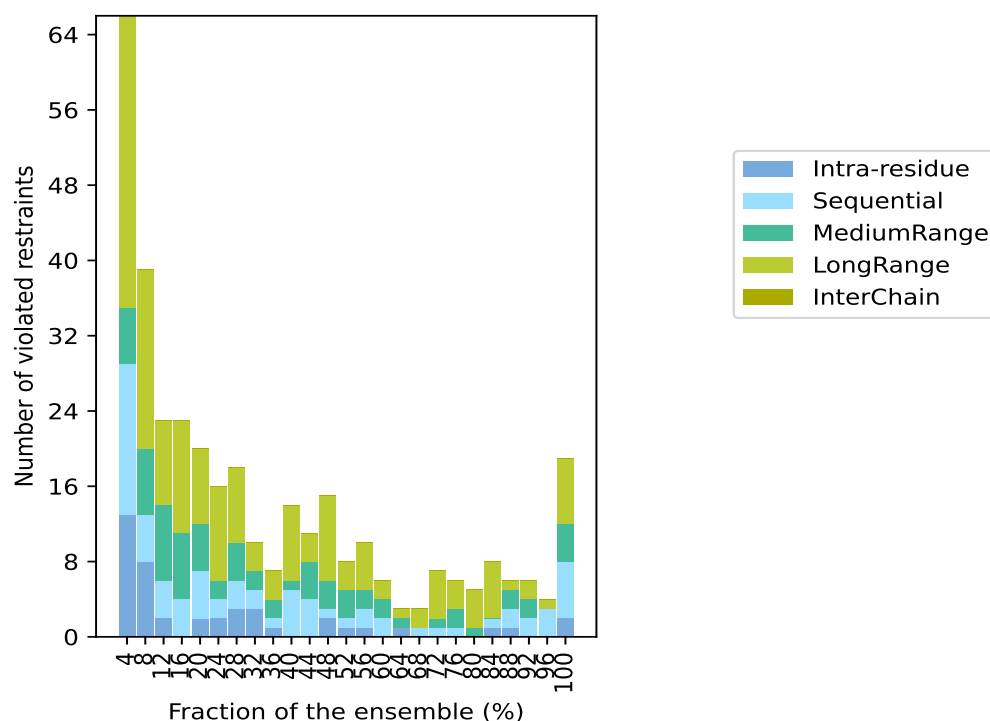
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
3	3	4	8	0	18	7	28.0
3	2	2	3	0	10	8	32.0
1	1	2	3	0	7	9	36.0
0	5	1	8	0	14	10	40.0
0	4	4	3	0	11	11	44.0
2	1	3	9	0	15	12	48.0
1	1	3	3	0	8	13	52.0
1	2	2	5	0	10	14	56.0
0	2	2	2	0	6	15	60.0
1	0	1	1	0	3	16	64.0
0	1	0	2	0	3	17	68.0
0	1	1	5	0	7	18	72.0
0	1	2	3	0	6	19	76.0
0	0	1	4	0	5	20	80.0
1	1	0	6	0	8	21	84.0
1	2	2	1	0	6	22	88.0
0	2	2	2	0	6	23	92.0
0	3	0	1	0	4	24	96.0
2	6	4	7	0	19	25	100.0

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

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

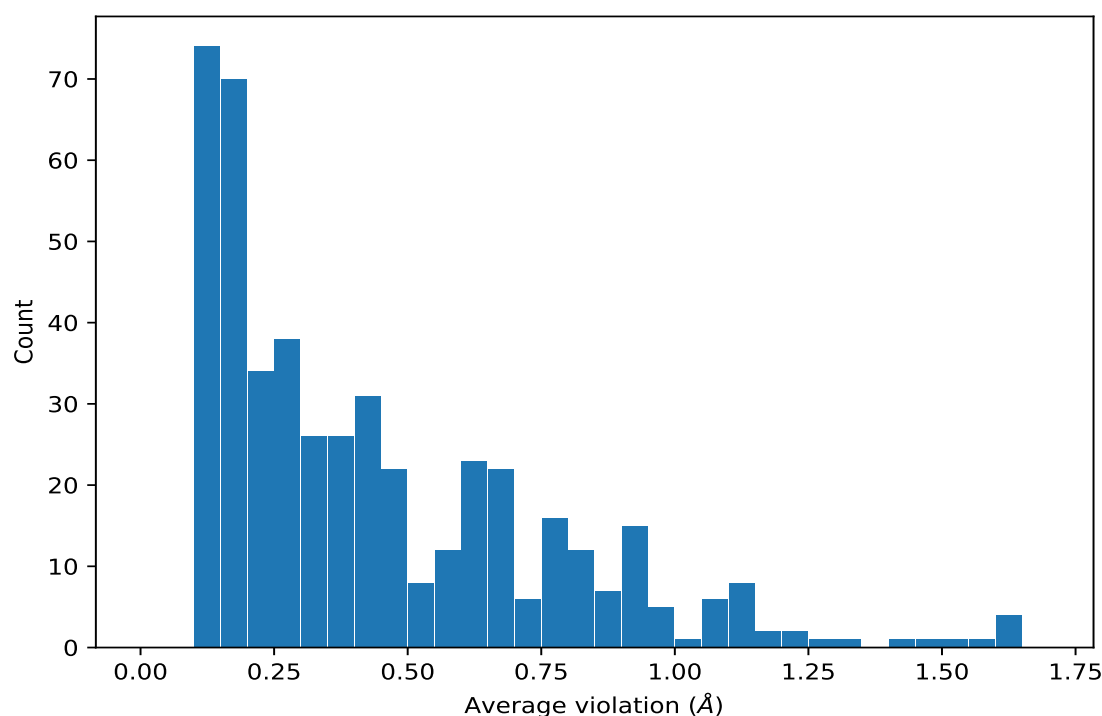
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	25	1.6	0.72	1.7
(2,1505)	1:94:C:ILE:HG21	1:53:C:ASN:HB3	25	1.6	0.72	1.7
(2,1505)	1:94:C:ILE:HG22	1:53:C:ASN:HB3	25	1.6	0.72	1.7
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	25	1.41	0.39	1.17
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	25	1.19	0.2	1.27
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	25	1.14	0.21	1.12
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	25	0.84	0.36	0.71
(2,689)	1:69:C:LYS:HG2	1:47:C:ILE:HB	25	0.84	0.36	0.71
(2,689)	1:22:C:LYS:HD2	1:47:C:ILE:HB	25	0.84	0.36	0.71
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	25	0.78	0.32	0.71
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	25	0.73	0.51	0.81
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	25	0.68	0.04	0.68
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	25	0.56	0.32	0.54
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	25	0.42	0.12	0.48
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	25	0.37	0.04	0.36
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	25	0.35	0.08	0.37

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	25	0.34	0.15	0.26
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	25	0.34	0.03	0.34
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	25	0.3	0.01	0.3
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	25	0.29	0.1	0.33
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	25	0.27	0.02	0.27
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	25	0.21	0.03	0.21
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	25	0.18	0.04	0.19
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	25	0.13	0.01	0.13
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	24	0.96	0.66	1.2
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	24	0.49	0.2	0.51
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	24	0.28	0.08	0.28
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	24	0.16	0.02	0.16
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	23	1.23	0.73	1.23
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	23	0.45	0.26	0.4
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	23	0.29	0.32	0.2
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	23	0.19	0.04	0.2
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	23	0.18	0.04	0.18
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	23	0.17	0.04	0.17
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	22	1.21	0.75	1.74
(2,782)	1:36:C:LEU:HD23	1:29:C:LEU:HB2	22	1.06	0.55	0.93
(2,782)	1:36:C:LEU:HD22	1:29:C:LEU:HB2	22	1.06	0.55	0.93
(2,782)	1:36:C:LEU:HD21	1:29:C:LEU:HB2	22	1.06	0.55	0.93
(2,782)	1:29:C:LEU:HB2	1:27:C:LEU:HB2	22	1.06	0.55	0.93
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	22	0.84	0.53	0.74
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	22	0.58	0.32	0.64
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	22	0.22	0.1	0.19
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	22	0.22	0.1	0.19
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	22	0.22	0.1	0.19
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	22	0.15	0.03	0.14
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	21	1.3	0.46	1.45
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	21	1.07	0.62	1.47
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	21	0.78	0.47	1.04
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	21	0.78	0.5	0.77
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	21	0.76	0.23	0.77
(2,1226)	1:40:C:SER:HA	1:27:C:LEU:HB3	21	0.45	0.2	0.44
(2,1226)	1:72:C:VAL:HG22	1:40:C:SER:HA	21	0.45	0.2	0.44
(2,1226)	1:72:C:VAL:HG21	1:40:C:SER:HA	21	0.45	0.2	0.44
(2,1226)	1:72:C:VAL:HG23	1:40:C:SER:HA	21	0.45	0.2	0.44
(2,1467)	1:66:C:PHE:HE1	1:91:C:ILE:HD12	21	0.4	0.15	0.4
(2,1467)	1:66:C:PHE:HE2	1:91:C:ILE:HD11	21	0.4	0.15	0.4
(2,1467)	1:66:C:PHE:HE1	1:91:C:ILE:HD13	21	0.4	0.15	0.4
(2,1467)	1:66:C:PHE:HE2	1:91:C:ILE:HD13	21	0.4	0.15	0.4

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1467)	1:66:C:PHE:HE2	1:91:C:ILE:HD12	21	0.4	0.15	0.4
(2,1467)	1:66:C:PHE:HE1	1:91:C:ILE:HD11	21	0.4	0.15	0.4
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	21	0.28	0.11	0.27
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	21	0.28	0.11	0.27
(2,516)	1:36:C:LEU:HB3	1:35:C:GLN:H	20	0.64	0.24	0.64
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	20	0.64	0.24	0.64
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	20	0.59	0.56	0.16
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	20	0.37	0.3	0.28
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	20	0.26	0.08	0.25
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	20	0.26	0.13	0.22
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	19	0.9	0.39	0.91
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	19	0.76	0.4	0.74
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	19	0.69	0.58	0.19
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	19	0.69	0.58	0.19
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	19	0.69	0.58	0.19
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	19	0.63	0.27	0.64
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	19	0.42	0.28	0.31
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	19	0.22	0.06	0.2
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	18	1.64	0.14	1.65
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	18	1.05	0.71	1.28
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	18	0.95	0.35	1.08
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	18	0.95	0.35	1.08
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	18	0.95	0.35	1.08
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	18	0.51	0.4	0.32
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	18	0.41	0.18	0.45
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	18	0.34	0.27	0.18
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	18	0.18	0.05	0.18
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	18	0.18	0.05	0.18
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	18	0.18	0.05	0.18
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	18	0.15	0.04	0.14
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	17	1.51	0.51	1.69
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	17	0.48	0.13	0.48
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	17	0.35	0.17	0.33
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	16	0.67	0.28	0.74
(2,330)	1:53:C:ASN:HD21	1:53:C:ASN:H	16	0.43	0.28	0.44
(2,330)	1:52:C:LYS:H	1:53:C:ASN:H	16	0.43	0.28	0.44
(2,756)	1:36:C:LEU:HD11	1:29:C:LEU:HA	16	0.39	0.2	0.36
(2,756)	1:27:C:LEU:HG	1:29:C:LEU:HA	16	0.39	0.2	0.36
(2,756)	1:36:C:LEU:HD12	1:29:C:LEU:HA	16	0.39	0.2	0.36
(2,756)	1:36:C:LEU:HD13	1:29:C:LEU:HA	16	0.39	0.2	0.36
(2,941)	1:48:C:SER:HB2	1:24:C:LYS:HG2	15	0.69	0.4	0.61
(2,941)	1:47:C:ILE:HG12	1:48:C:SER:HB2	15	0.69	0.4	0.61

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,326)	1:52:C:LYS:HG2	1:53:C:ASN:H	15	0.23	0.08	0.23
(2,1308)	1:78:C:ASP:HB3	1:82:C:LEU:HG	15	0.16	0.05	0.14
(2,551)	1:92:C:LYS:H	1:55:C:GLY:H	15	0.15	0.04	0.15
(2,1182)	1:69:C:LYS:HG2	1:68:C:GLU:HA	15	0.14	0.04	0.13
(2,897)	1:43:C:ALA:HB1	1:41:C:SER:HA	15	0.14	0.03	0.14
(2,897)	1:43:C:ALA:HB2	1:41:C:SER:HA	15	0.14	0.03	0.14
(2,897)	1:43:C:ALA:HB3	1:41:C:SER:HA	15	0.14	0.03	0.14
(2,495)	1:80:C:ASN:H	1:81:C:LYS:HG3	14	1.28	0.13	1.29
(2,731)	1:26:C:LYS:HB3	1:41:C:SER:HB2	14	1.19	0.15	1.17
(2,890)	1:41:C:SER:HB2	1:26:C:LYS:HB2	14	1.03	0.15	0.99
(2,14)	1:41:C:SER:HB2	1:26:C:LYS:HE2	14	0.93	0.43	1.04
(2,1296)	1:76:C:SER:HB2	1:79:C:ILE:HB	14	0.88	0.09	0.89
(2,117)	1:89:C:ILE:HG13	1:9:C:GLN:H	14	0.8	0.42	0.74
(2,117)	1:6:C:LEU:HD12	1:9:C:GLN:H	14	0.8	0.42	0.74
(2,117)	1:6:C:LEU:HD13	1:9:C:GLN:H	14	0.8	0.42	0.74
(2,117)	1:6:C:LEU:HD11	1:9:C:GLN:H	14	0.8	0.42	0.74
(2,1204)	1:71:C:THR:HG22	1:44:C:GLY:HA2	14	0.38	0.17	0.37
(2,1204)	1:71:C:THR:HG21	1:44:C:GLY:HA2	14	0.38	0.17	0.37
(2,1204)	1:71:C:THR:HG23	1:44:C:GLY:HA2	14	0.38	0.17	0.37
(2,883)	1:40:C:SER:HB3	1:39:C:THR:HA	14	0.35	0.36	0.18
(2,883)	1:28:C:SER:HB2	1:39:C:THR:HA	14	0.35	0.36	0.18
(2,607)	1:15:C:SER:HB2	1:15:C:SER:HA	14	0.18	0.05	0.19
(2,889)	1:40:C:SER:HA	1:72:C:VAL:HB	14	0.15	0.03	0.15
(2,189)	1:25:C:GLY:H	1:24:C:LYS:HD2	13	0.66	0.43	0.57
(2,1159)	1:67:C:ASN:HB3	1:70:C:SER:HA	13	0.65	0.33	0.64
(2,1197)	1:70:C:SER:HB3	1:67:C:ASN:HB3	13	0.6	0.38	0.45
(2,475)	1:77:C:ASN:HB2	1:80:C:ASN:HD21	13	0.43	0.12	0.36
(2,1220)	1:72:C:VAL:HG11	1:25:C:GLY:HA3	13	0.32	0.17	0.27
(2,1220)	1:72:C:VAL:HG12	1:25:C:GLY:HA3	13	0.32	0.17	0.27
(2,1220)	1:72:C:VAL:HG13	1:25:C:GLY:HA3	13	0.32	0.17	0.27
(2,470)	1:77:C:ASN:HD21	1:37:C:LYS:HA	13	0.28	0.08	0.3
(2,7)	1:29:C:LEU:HD21	1:17:C:ASN:HA	13	0.24	0.08	0.27
(2,7)	1:29:C:LEU:HD22	1:17:C:ASN:HA	13	0.24	0.08	0.27
(2,7)	1:29:C:LEU:HD23	1:17:C:ASN:HA	13	0.24	0.08	0.27
(2,567)	1:94:C:ILE:H	1:94:C:ILE:HG12	13	0.16	0.04	0.16
(2,691)	1:22:C:LYS:HE2	1:48:C:SER:HB2	12	1.12	0.7	1.53
(2,1167)	1:68:C:GLU:HG2	1:52:C:LYS:HG3	12	0.96	0.29	0.98
(2,1367)	1:82:C:LEU:HD11	1:81:C:LYS:HE2	12	0.64	0.5	0.5
(2,1367)	1:82:C:LEU:HD12	1:81:C:LYS:HE2	12	0.64	0.5	0.5
(2,1367)	1:82:C:LEU:HD13	1:81:C:LYS:HE2	12	0.64	0.5	0.5
(2,1424)	1:88:C:TYR:HA	1:87:C:PRO:HB3	12	0.64	0.16	0.68
(2,1424)	1:88:C:TYR:HA	1:8:C:GLU:HG2	12	0.64	0.16	0.68

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,250)	1:37:C:LYS:HG2	1:30:C:SER:H	12	0.63	0.5	0.4
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG21	12	0.59	0.3	0.56
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG22	12	0.59	0.3	0.56
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG23	12	0.59	0.3	0.56
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG21	12	0.55	0.43	0.3
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG22	12	0.55	0.43	0.3
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG23	12	0.55	0.43	0.3
(2,356)	1:56:C:ILE:HG12	1:64:C:TYR:H	12	0.54	0.33	0.62
(2,1166)	1:68:C:GLU:HB3	1:52:C:LYS:HB3	12	0.4	0.29	0.32
(2,187)	1:24:C:LYS:HD2	1:24:C:LYS:H	12	0.38	0.31	0.29
(2,1533)	1:94:C:ILE:HG21	1:55:C:GLY:HA2	12	0.28	0.1	0.31
(2,1533)	1:94:C:ILE:HG22	1:55:C:GLY:HA2	12	0.28	0.1	0.31
(2,1533)	1:94:C:ILE:HG23	1:55:C:GLY:HA2	12	0.28	0.1	0.31
(2,18)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	12	0.26	0.07	0.29
(2,38)	1:49:C:TYR:HD1	1:49:C:TYR:HB3	12	0.14	0.02	0.15
(2,38)	1:49:C:TYR:HD2	1:49:C:TYR:HB3	12	0.14	0.02	0.15
(2,446)	1:74:C:ASN:H	1:71:C:THR:H	12	0.13	0.02	0.12
(2,45)	1:54:C:TRP:HZ2	1:92:C:LYS:HA	12	0.12	0.01	0.11
(2,900)	1:45:C:TYR:HE2	1:24:C:LYS:HE2	11	0.9	0.41	0.81
(2,900)	1:45:C:TYR:HE1	1:24:C:LYS:HE2	11	0.9	0.41	0.81
(2,329)	1:52:C:LYS:H	1:68:C:GLU:HB3	11	0.89	0.47	0.68
(2,966)	1:51:C:ASP:HA	1:52:C:LYS:HD2	11	0.77	0.69	0.6
(2,1162)	1:51:C:ASP:HB3	1:52:C:LYS:HA	11	0.7	0.08	0.71
(2,706)	1:25:C:GLY:HA2	1:26:C:LYS:HE2	11	0.6	0.39	0.69
(2,632)	1:19:C:LYS:HG3	1:16:C:VAL:HA	11	0.52	0.26	0.54
(2,16)	1:25:C:GLY:HA2	1:22:C:LYS:HE2	11	0.5	0.35	0.48
(2,1231)	1:72:C:VAL:HG11	1:68:C:GLU:HG3	11	0.26	0.07	0.28
(2,1231)	1:72:C:VAL:HG12	1:68:C:GLU:HG3	11	0.26	0.07	0.28
(2,1231)	1:72:C:VAL:HG13	1:68:C:GLU:HG3	11	0.26	0.07	0.28
(2,506)	1:82:C:LEU:HB2	1:83:C:ASN:H	11	0.16	0.04	0.15
(2,601)	1:13:C:ILE:HD11	1:16:C:VAL:HB	11	0.14	0.02	0.15
(2,601)	1:13:C:ILE:HD12	1:16:C:VAL:HB	11	0.14	0.02	0.15
(2,601)	1:13:C:ILE:HD13	1:16:C:VAL:HB	11	0.14	0.02	0.15
(2,233)	1:33:C:GLY:HA3	1:34:C:ASN:H	11	0.12	0.01	0.13
(2,690)	1:22:C:LYS:HE3	1:48:C:SER:HB2	10	1.11	0.6	1.42
(2,1022)	1:56:C:ILE:HG13	1:90:C:GLU:HB2	10	0.91	0.4	1.06
(2,959)	1:50:C:GLU:HA	1:69:C:LYS:HE2	10	0.69	0.39	0.64
(2,882)	1:40:C:SER:HA	1:27:C:LEU:HB2	10	0.45	0.07	0.44
(2,882)	1:40:C:SER:HA	1:26:C:LYS:HB3	10	0.45	0.07	0.44
(2,316)	1:51:C:ASP:H	1:50:C:GLU:HG3	10	0.43	0.13	0.43
(2,958)	1:50:C:GLU:HB2	1:52:C:LYS:HG2	10	0.39	0.45	0.3
(2,1347)	1:80:C:ASN:HA	1:36:C:LEU:HB2	10	0.37	0.21	0.35

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,727)	1:26:C:LYS:HG3	1:41:C:SER:HA	10	0.26	0.19	0.18
(2,1169)	1:68:C:GLU:HG3	1:54:C:TRP:HD1	10	0.18	0.03	0.19
(2,1001)	1:55:C:GLY:HA3	1:54:C:TRP:HB3	10	0.18	0.05	0.16
(2,116)	1:5:C:ALA:HA	1:6:C:LEU:H	10	0.17	0.02	0.17
(2,273)	1:40:C:SER:H	1:39:C:THR:HG1	10	0.16	0.1	0.13
(2,252)	1:37:C:LYS:H	1:30:C:SER:H	10	0.15	0.03	0.13
(2,174)	1:20:C:LEU:HB2	1:19:C:LYS:H	10	0.11	0.01	0.11
(2,104)	1:92:C:LYS:HD2	1:57:C:PHE:HZ	9	1.13	0.51	0.85
(2,15)	1:25:C:GLY:HA2	1:22:C:LYS:HE3	9	0.79	0.25	0.87
(2,105)	1:2:C:ASN:H	1:3:C:GLN:HE21	9	0.45	0.31	0.38
(2,105)	1:2:C:ASN:H	1:2:C:ASN:HD21	9	0.45	0.31	0.38
(2,553)	1:92:C:LYS:HD2	1:92:C:LYS:H	9	0.45	0.2	0.55
(2,904)	1:45:C:TYR:HB2	1:25:C:GLY:HA3	9	0.28	0.1	0.28
(2,111)	1:4:C:LYS:HB2	1:2:C:ASN:H	9	0.26	0.34	0.11
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG21	9	0.12	0.01	0.12
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG22	9	0.12	0.01	0.12
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG23	9	0.12	0.01	0.12
(2,948)	1:50:C:GLU:HG2	1:48:C:SER:HB2	8	1.11	0.36	1.0
(2,1026)	1:56:C:ILE:HA	1:91:C:ILE:HG13	8	0.66	0.51	0.62
(2,1235)	1:52:C:LYS:HG3	1:68:C:GLU:HB3	8	0.64	0.24	0.58
(2,497)	1:81:C:LYS:HE3	1:81:C:LYS:H	8	0.62	0.17	0.57
(2,1079)	1:62:C:LYS:HB2	1:61:C:GLU:HG2	8	0.32	0.22	0.22
(2,816)	1:32:C:ASN:HB2	1:35:C:GLN:HB2	8	0.23	0.06	0.22
(2,13)	1:41:C:SER:HB2	1:26:C:LYS:HD2	8	0.22	0.04	0.22
(2,413)	1:68:C:GLU:H	1:68:C:GLU:HG2	8	0.22	0.04	0.22
(2,704)	1:25:C:GLY:HA3	1:26:C:LYS:HG2	8	0.18	0.03	0.18
(2,704)	1:25:C:GLY:HA3	1:24:C:LYS:HG2	8	0.18	0.03	0.18
(2,215)	1:29:C:LEU:HG	1:29:C:LEU:H	8	0.15	0.02	0.14
(2,1521)	1:93:C:GLN:HB3	1:53:C:ASN:HB2	7	0.66	0.46	0.35
(2,1061)	1:58:C:VAL:HG21	1:61:C:GLU:HG2	7	0.64	0.28	0.63
(2,1061)	1:58:C:VAL:HG22	1:61:C:GLU:HG2	7	0.64	0.28	0.63
(2,1061)	1:58:C:VAL:HG23	1:61:C:GLU:HG2	7	0.64	0.28	0.63
(2,124)	1:9:C:GLN:HG2	1:31:C:MET:H	7	0.61	0.53	0.4
(2,934)	1:47:C:ILE:HB	1:48:C:SER:HB2	7	0.6	0.13	0.66
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG11	7	0.53	0.24	0.4
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG12	7	0.53	0.24	0.4
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG13	7	0.53	0.24	0.4
(2,1020)	1:56:C:ILE:HG12	1:64:C:TYR:HB2	7	0.53	0.24	0.5
(2,1041)	1:57:C:PHE:HE1	1:62:C:LYS:HE3	7	0.44	0.19	0.42
(2,1041)	1:57:C:PHE:HE2	1:62:C:LYS:HE3	7	0.44	0.19	0.42
(2,671)	1:22:C:LYS:HE3	1:20:C:LEU:HA	7	0.4	0.32	0.3
(2,670)	1:22:C:LYS:HG3	1:19:C:LYS:HA	7	0.31	0.09	0.33

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,670)	1:22:C:LYS:HG2	1:19:C:LYS:HA	7	0.31	0.09	0.33
(2,1105)	1:63:C:VAL:HB	1:63:C:VAL:HA	7	0.3	0.0	0.3
(2,1160)	1:68:C:GLU:HB3	1:47:C:ILE:HB	7	0.3	0.22	0.22
(2,1216)	1:71:C:THR:HA	1:46:C:GLY:HA2	7	0.21	0.12	0.18
(2,294)	1:45:C:TYR:HB3	1:46:C:GLY:H	7	0.2	0.04	0.22
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD11	7	0.16	0.04	0.14
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD12	7	0.16	0.04	0.14
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD13	7	0.16	0.04	0.14
(2,409)	1:48:C:SER:HB2	1:48:C:SER:H	7	0.16	0.03	0.15
(2,1164)	1:68:C:GLU:HB2	1:52:C:LYS:HB2	7	0.16	0.05	0.13
(2,1211)	1:71:C:THR:HA	1:46:C:GLY:HA3	7	0.14	0.02	0.14
(2,34)	1:45:C:TYR:HD1	1:45:C:TYR:HB3	7	0.11	0.01	0.11
(2,34)	1:45:C:TYR:HD2	1:45:C:TYR:HB3	7	0.11	0.01	0.11
(2,734)	1:27:C:LEU:HD11	1:20:C:LEU:HG	6	0.92	0.11	0.92
(2,734)	1:27:C:LEU:HD12	1:20:C:LEU:HG	6	0.92	0.11	0.92
(2,734)	1:27:C:LEU:HD13	1:20:C:LEU:HG	6	0.92	0.11	0.92
(2,30)	1:27:C:LEU:HD23	1:64:C:TYR:HE1	6	0.89	0.9	0.4
(2,30)	1:27:C:LEU:HD22	1:64:C:TYR:HE2	6	0.89	0.9	0.4
(2,30)	1:27:C:LEU:HD23	1:64:C:TYR:HE2	6	0.89	0.9	0.4
(2,30)	1:27:C:LEU:HD22	1:64:C:TYR:HE1	6	0.89	0.9	0.4
(2,61)	1:57:C:PHE:HZ	1:62:C:LYS:HD2	6	0.67	0.2	0.66
(2,1441)	1:85:C:LYS:HG2	1:86:C:GLY:HA2	6	0.49	0.38	0.36
(2,280)	1:42:C:ASN:HB3	1:26:C:LYS:H	6	0.48	0.1	0.5
(2,875)	1:40:C:SER:HB3	1:26:C:LYS:HG3	6	0.44	0.4	0.21
(2,588)	1:13:C:ILE:HG12	1:12:C:SER:HB2	6	0.32	0.26	0.18
(2,231)	1:32:C:ASN:HB3	1:35:C:GLN:H	6	0.32	0.19	0.27
(2,635)	1:19:C:LYS:HA	1:19:C:LYS:HE2	6	0.32	0.16	0.3
(2,1232)	1:72:C:VAL:HG21	1:68:C:GLU:HG3	6	0.22	0.04	0.2
(2,1232)	1:72:C:VAL:HG22	1:68:C:GLU:HG3	6	0.22	0.04	0.2
(2,1232)	1:72:C:VAL:HG23	1:68:C:GLU:HG3	6	0.22	0.04	0.2
(2,939)	1:48:C:SER:HA	1:24:C:LYS:HD3	6	0.19	0.08	0.15
(2,742)	1:27:C:LEU:HD11	1:27:C:LEU:HA	6	0.18	0.04	0.17
(2,742)	1:27:C:LEU:HD12	1:27:C:LEU:HA	6	0.18	0.04	0.17
(2,742)	1:27:C:LEU:HD13	1:27:C:LEU:HA	6	0.18	0.04	0.17
(2,970)	1:51:C:ASP:HA	1:69:C:LYS:HG3	6	0.17	0.08	0.14
(2,703)	1:24:C:LYS:HB3	1:46:C:GLY:HA3	6	0.14	0.03	0.14
(2,1316)	1:79:C:ILE:HG21	1:37:C:LYS:HA	6	0.13	0.02	0.13
(2,1316)	1:79:C:ILE:HG22	1:37:C:LYS:HA	6	0.13	0.02	0.13
(2,1316)	1:79:C:ILE:HG23	1:37:C:LYS:HA	6	0.13	0.02	0.13
(2,1049)	1:57:C:PHE:HB2	1:90:C:GLU:HB2	6	0.11	0.01	0.11
(2,1358)	1:79:C:ILE:HA	1:84:C:ILE:HD11	5	0.92	0.35	1.0
(2,1358)	1:79:C:ILE:HA	1:84:C:ILE:HD13	5	0.92	0.35	1.0

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1358)	1:79:C:ILE:HA	1:84:C:ILE:HD12	5	0.92	0.35	1.0
(2,367)	1:58:C:VAL:HG21	1:88:C:TYR:H	5	0.81	0.5	0.68
(2,367)	1:58:C:VAL:HG22	1:88:C:TYR:H	5	0.81	0.5	0.68
(2,367)	1:58:C:VAL:HG23	1:88:C:TYR:H	5	0.81	0.5	0.68
(2,769)	1:27:C:LEU:HD21	1:72:C:VAL:HB	5	0.69	0.31	0.55
(2,769)	1:27:C:LEU:HD22	1:72:C:VAL:HB	5	0.69	0.31	0.55
(2,769)	1:27:C:LEU:HD23	1:72:C:VAL:HB	5	0.69	0.31	0.55
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD11	5	0.66	0.18	0.63
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD12	5	0.66	0.18	0.63
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD13	5	0.66	0.18	0.63
(2,903)	1:45:C:TYR:HB2	1:24:C:LYS:HG2	5	0.61	0.27	0.64
(2,972)	1:52:C:LYS:HD2	1:51:C:ASP:HB3	5	0.57	0.5	0.3
(2,1268)	1:75:C:ILE:HG12	1:71:C:THR:HA	5	0.56	0.08	0.57
(2,664)	1:72:C:VAL:HG22	1:20:C:LEU:HD12	5	0.47	0.21	0.47
(2,664)	1:20:C:LEU:HD11	1:93:C:GLN:HG2	5	0.47	0.21	0.47
(2,664)	1:72:C:VAL:HG23	1:20:C:LEU:HD11	5	0.47	0.21	0.47
(2,664)	1:72:C:VAL:HG23	1:20:C:LEU:HD12	5	0.47	0.21	0.47
(2,664)	1:20:C:LEU:HD13	1:93:C:GLN:HG2	5	0.47	0.21	0.47
(2,317)	1:49:C:TYR:HB3	1:50:C:GLU:H	5	0.26	0.16	0.18
(2,317)	1:51:C:ASP:HB3	1:50:C:GLU:H	5	0.26	0.16	0.18
(2,1205)	1:71:C:THR:HG21	1:44:C:GLY:HA3	5	0.24	0.09	0.18
(2,1205)	1:71:C:THR:HG23	1:44:C:GLY:HA3	5	0.24	0.09	0.18
(2,1207)	1:71:C:THR:HB	1:44:C:GLY:HA2	5	0.24	0.12	0.26
(2,259)	1:37:C:LYS:HG3	1:37:C:LYS:H	5	0.23	0.01	0.23
(2,1362)	1:82:C:LEU:HB3	1:79:C:ILE:HA	5	0.17	0.04	0.15
(2,999)	1:55:C:GLY:HA2	1:54:C:TRP:HZ3	5	0.17	0.07	0.14
(1,18)	1:68:C:GLU:H	1:52:C:LYS:O	5	0.15	0.03	0.14
(2,1536)	1:94:C:ILE:HD11	1:65:C:THR:HB	5	0.14	0.02	0.14
(2,1536)	1:94:C:ILE:HD12	1:65:C:THR:HB	5	0.14	0.02	0.14
(2,1536)	1:94:C:ILE:HD13	1:65:C:THR:HB	5	0.14	0.02	0.14
(2,570)	1:4:C:LYS:HB3	1:2:C:ASN:HA	5	0.14	0.03	0.13
(2,618)	1:16:C:VAL:HG21	1:20:C:LEU:HG	5	0.14	0.03	0.13
(2,618)	1:16:C:VAL:HG22	1:20:C:LEU:HG	5	0.14	0.03	0.13
(2,618)	1:16:C:VAL:HG23	1:20:C:LEU:HG	5	0.14	0.03	0.13
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG11	5	0.13	0.02	0.13
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG12	5	0.13	0.02	0.13
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG13	5	0.13	0.02	0.13
(2,698)	1:24:C:LYS:HD3	1:24:C:LYS:HA	5	0.13	0.03	0.11
(2,441)	1:72:C:VAL:HA	1:72:C:VAL:H	5	0.11	0.01	0.11
(2,1444)	1:89:C:ILE:HG13	1:87:C:PRO:HD3	4	1.59	0.73	1.54
(2,973)	1:52:C:LYS:HD2	1:51:C:ASP:HB2	4	0.83	0.45	0.95
(2,804)	1:30:C:SER:HA	1:13:C:ILE:HG22	4	0.75	0.17	0.83

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,804)	1:13:C:ILE:HD11	1:30:C:SER:HA	4	0.75	0.17	0.83
(2,771)	1:27:C:LEU:HD21	1:75:C:ILE:HB	4	0.7	0.36	0.83
(2,771)	1:27:C:LEU:HD22	1:75:C:ILE:HB	4	0.7	0.36	0.83
(2,771)	1:27:C:LEU:HD23	1:75:C:ILE:HB	4	0.7	0.36	0.83
(2,46)	1:54:C:TRP:HE3	1:93:C:GLN:HB3	4	0.7	0.59	0.62
(2,770)	1:27:C:LEU:HD21	1:72:C:VAL:HA	4	0.62	0.36	0.69
(2,770)	1:27:C:LEU:HD22	1:72:C:VAL:HA	4	0.62	0.36	0.69
(2,770)	1:27:C:LEU:HD23	1:72:C:VAL:HA	4	0.62	0.36	0.69
(2,1399)	1:84:C:ILE:HG12	1:86:C:GLY:HA3	4	0.46	0.23	0.46
(2,1399)	1:58:C:VAL:HG21	1:86:C:GLY:HA3	4	0.46	0.23	0.46
(2,659)	1:20:C:LEU:HD11	1:22:C:LYS:HE3	4	0.44	0.21	0.38
(2,659)	1:20:C:LEU:HD12	1:22:C:LYS:HE3	4	0.44	0.21	0.38
(2,659)	1:20:C:LEU:HD13	1:22:C:LYS:HE3	4	0.44	0.21	0.38
(2,880)	1:40:C:SER:HB2	1:27:C:LEU:HA	4	0.43	0.03	0.43
(2,841)	1:37:C:LYS:HG2	1:36:C:LEU:HA	4	0.42	0.09	0.4
(2,1522)	1:94:C:ILE:HG12	1:53:C:ASN:HB2	4	0.38	0.12	0.43
(2,1178)	1:24:C:LYS:HB3	1:47:C:ILE:HA	4	0.29	0.1	0.3
(2,1178)	1:69:C:LYS:HG2	1:47:C:ILE:HA	4	0.29	0.1	0.3
(2,27)	1:20:C:LEU:HD11	1:54:C:TRP:HE3	4	0.25	0.08	0.24
(2,27)	1:20:C:LEU:HD12	1:54:C:TRP:HE3	4	0.25	0.08	0.24
(2,27)	1:20:C:LEU:HD13	1:54:C:TRP:HE3	4	0.25	0.08	0.24
(2,59)	1:57:C:PHE:HD1	1:62:C:LYS:HB2	4	0.25	0.06	0.26
(2,59)	1:57:C:PHE:HD2	1:62:C:LYS:HB2	4	0.25	0.06	0.26
(2,6)	1:29:C:LEU:HD11	1:17:C:ASN:HA	4	0.17	0.03	0.16
(2,6)	1:29:C:LEU:HD12	1:17:C:ASN:HA	4	0.17	0.03	0.16
(2,6)	1:29:C:LEU:HD13	1:17:C:ASN:HA	4	0.17	0.03	0.16
(2,184)	1:24:C:LYS:H	1:23:C:GLY:H	4	0.15	0.02	0.16
(2,1206)	1:71:C:THR:HB	1:44:C:GLY:HA3	4	0.15	0.02	0.15
(2,1064)	1:58:C:VAL:HG11	1:89:C:ILE:HA	4	0.15	0.06	0.12
(2,1064)	1:58:C:VAL:HG12	1:89:C:ILE:HA	4	0.15	0.06	0.12
(2,1064)	1:58:C:VAL:HG13	1:89:C:ILE:HA	4	0.15	0.06	0.12
(2,79)	1:66:C:PHE:HB3	1:64:C:TYR:HE1	4	0.14	0.03	0.14
(2,79)	1:66:C:PHE:HB3	1:64:C:TYR:HE2	4	0.14	0.03	0.14
(2,1272)	1:75:C:ILE:HD11	1:72:C:VAL:HA	4	0.13	0.02	0.12
(2,1272)	1:75:C:ILE:HD12	1:72:C:VAL:HA	4	0.13	0.02	0.12
(2,1272)	1:75:C:ILE:HD13	1:72:C:VAL:HA	4	0.13	0.02	0.12
(2,130)	1:15:C:SER:H	1:11:C:ASN:HA	4	0.12	0.01	0.12
(2,17)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	4	0.12	0.02	0.12
(2,918)	1:46:C:GLY:HA3	1:47:C:ILE:HD11	4	0.12	0.01	0.12
(2,918)	1:46:C:GLY:HA3	1:47:C:ILE:HD12	4	0.12	0.01	0.12
(2,918)	1:46:C:GLY:HA3	1:47:C:ILE:HD13	4	0.12	0.01	0.12
(2,1440)	1:85:C:LYS:HG2	1:86:C:GLY:HA3	3	1.46	0.16	1.46

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1063)	1:58:C:VAL:HG21	1:86:C:GLY:HA2	3	1.11	0.31	1.11
(2,1063)	1:58:C:VAL:HG22	1:86:C:GLY:HA2	3	1.11	0.31	1.11
(2,1063)	1:58:C:VAL:HG23	1:86:C:GLY:HA2	3	1.11	0.31	1.11
(2,938)	1:48:C:SER:HB2	1:24:C:LYS:HD2	3	0.79	0.47	1.04
(2,938)	1:69:C:LYS:HG2	1:48:C:SER:HB2	3	0.79	0.47	1.04
(2,1155)	1:67:C:ASN:HB2	1:65:C:THR:HG21	3	0.77	0.51	0.68
(2,1155)	1:67:C:ASN:HB2	1:65:C:THR:HG22	3	0.77	0.51	0.68
(2,1155)	1:67:C:ASN:HB2	1:65:C:THR:HG23	3	0.77	0.51	0.68
(2,1387)	1:84:C:ILE:HG13	1:58:C:VAL:HG11	3	0.66	0.55	0.32
(2,1387)	1:58:C:VAL:HG13	1:89:C:ILE:HG12	3	0.66	0.55	0.32
(2,1387)	1:84:C:ILE:HG13	1:58:C:VAL:HG12	3	0.66	0.55	0.32
(2,1443)	1:89:C:ILE:HD11	1:86:C:GLY:HA2	3	0.31	0.02	0.31
(2,1443)	1:89:C:ILE:HD12	1:86:C:GLY:HA2	3	0.31	0.02	0.31
(2,1443)	1:89:C:ILE:HD13	1:86:C:GLY:HA2	3	0.31	0.02	0.31
(2,1516)	1:93:C:GLN:HG2	1:93:C:GLN:HE21	3	0.25	0.04	0.23
(2,491)	1:80:C:ASN:HD21	1:76:C:SER:HB3	3	0.22	0.12	0.17
(2,819)	1:35:C:GLN:HB2	1:32:C:ASN:HB3	3	0.22	0.12	0.14
(2,320)	1:51:C:ASP:H	1:51:C:ASP:HB2	3	0.19	0.02	0.2
(2,626)	1:18:C:ASP:HA	1:21:C:ASN:HB3	3	0.18	0.06	0.2
(2,587)	1:13:C:ILE:HD11	1:10:C:MET:HA	3	0.18	0.08	0.12
(2,587)	1:13:C:ILE:HD12	1:10:C:MET:HA	3	0.18	0.08	0.12
(2,587)	1:13:C:ILE:HD13	1:10:C:MET:HA	3	0.18	0.08	0.12
(2,435)	1:72:C:VAL:HG11	1:73:C:GLY:H	3	0.18	0.07	0.16
(2,435)	1:72:C:VAL:HG12	1:73:C:GLY:H	3	0.18	0.07	0.16
(2,435)	1:72:C:VAL:HG13	1:73:C:GLY:H	3	0.18	0.07	0.16
(2,660)	1:20:C:LEU:HD11	1:54:C:TRP:HE3	3	0.17	0.07	0.14
(2,660)	1:20:C:LEU:HD12	1:54:C:TRP:HE3	3	0.17	0.07	0.14
(2,660)	1:20:C:LEU:HD13	1:54:C:TRP:HE3	3	0.17	0.07	0.14
(2,1305)	1:78:C:ASP:HA	1:81:C:LYS:HD2	3	0.16	0.03	0.16
(2,1385)	1:84:C:ILE:HB	1:36:C:LEU:HG	3	0.16	0.07	0.12
(2,422)	1:69:C:LYS:H	1:69:C:LYS:HD2	3	0.15	0.01	0.15
(2,242)	1:35:C:GLN:HG2	1:36:C:LEU:H	3	0.15	0.04	0.13
(2,865)	1:38:C:ALA:HA	1:28:C:SER:HB2	3	0.15	0.02	0.16
(2,1007)	1:56:C:ILE:HG12	1:54:C:TRP:HZ3	3	0.14	0.02	0.14
(2,805)	1:30:C:SER:HA	1:13:C:ILE:HG21	3	0.14	0.01	0.14
(2,805)	1:30:C:SER:HA	1:13:C:ILE:HG22	3	0.14	0.01	0.14
(2,805)	1:30:C:SER:HA	1:13:C:ILE:HG23	3	0.14	0.01	0.14
(2,888)	1:40:C:SER:HA	1:41:C:SER:HA	3	0.14	0.03	0.12
(2,397)	1:66:C:PHE:H	1:54:C:TRP:H	3	0.12	0.02	0.12
(1,29)	1:59:C:ASN:H	1:88:C:TYR:O	3	0.12	0.01	0.11
(2,834)	1:36:C:LEU:HD21	1:31:C:MET:HB2	2	0.92	0.1	0.92
(2,834)	1:36:C:LEU:HD22	1:31:C:MET:HB2	2	0.92	0.1	0.92

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,834)	1:36:C:LEU:HD23	1:31:C:MET:HB2	2	0.92	0.1	0.92
(2,1401)	1:85:C:LYS:HB2	1:34:C:ASN:HA	2	0.9	0.23	0.9
(2,191)	1:25:C:GLY:H	1:24:C:LYS:HG3	2	0.88	0.05	0.88
(2,1457)	1:90:C:GLU:HA	1:89:C:ILE:HG22	2	0.76	0.5	0.76
(2,1457)	1:89:C:ILE:HG23	1:59:C:ASN:HA	2	0.76	0.5	0.76
(2,560)	1:93:C:GLN:HG3	1:93:C:GLN:H	2	0.62	0.02	0.62
(2,523)	1:85:C:LYS:H	1:85:C:LYS:HG3	2	0.57	0.03	0.57
(2,19)	1:54:C:TRP:HD1	1:52:C:LYS:HB2	2	0.46	0.05	0.46
(2,1539)	1:94:C:ILE:HA	1:93:C:GLN:HB2	2	0.42	0.03	0.42
(2,1356)	1:81:C:LYS:HD2	1:81:C:LYS:HA	2	0.42	0.31	0.42
(2,609)	1:16:C:VAL:HG21	1:13:C:ILE:HB	2	0.4	0.27	0.4
(2,609)	1:16:C:VAL:HG22	1:13:C:ILE:HB	2	0.4	0.27	0.4
(2,609)	1:16:C:VAL:HG23	1:13:C:ILE:HB	2	0.4	0.27	0.4
(2,1230)	1:72:C:VAL:HG21	1:68:C:GLU:HA	2	0.4	0.16	0.4
(2,1230)	1:72:C:VAL:HG22	1:68:C:GLU:HA	2	0.4	0.16	0.4
(2,1230)	1:72:C:VAL:HG23	1:68:C:GLU:HA	2	0.4	0.16	0.4
(2,663)	1:20:C:LEU:HD11	1:91:C:ILE:HG21	2	0.36	0.18	0.36
(2,663)	1:20:C:LEU:HD11	1:91:C:ILE:HG22	2	0.36	0.18	0.36
(2,663)	1:20:C:LEU:HD11	1:91:C:ILE:HG23	2	0.36	0.18	0.36
(2,663)	1:20:C:LEU:HD12	1:91:C:ILE:HG21	2	0.36	0.18	0.36
(2,663)	1:20:C:LEU:HD12	1:91:C:ILE:HG22	2	0.36	0.18	0.36
(2,663)	1:20:C:LEU:HD12	1:91:C:ILE:HG23	2	0.36	0.18	0.36
(2,663)	1:20:C:LEU:HD13	1:91:C:ILE:HG21	2	0.36	0.18	0.36
(2,663)	1:20:C:LEU:HD13	1:91:C:ILE:HG22	2	0.36	0.18	0.36
(2,663)	1:20:C:LEU:HD13	1:91:C:ILE:HG23	2	0.36	0.18	0.36
(2,1196)	1:75:C:ILE:HG13	1:70:C:SER:HA	2	0.33	0.16	0.33
(2,377)	1:62:C:LYS:HG2	1:62:C:LYS:H	2	0.32	0.05	0.32
(2,31)	1:27:C:LEU:HD21	1:64:C:TYR:HD1	2	0.32	0.21	0.32
(2,31)	1:27:C:LEU:HD21	1:64:C:TYR:HD2	2	0.32	0.21	0.32
(2,31)	1:27:C:LEU:HD22	1:64:C:TYR:HD1	2	0.32	0.21	0.32
(2,31)	1:27:C:LEU:HD22	1:64:C:TYR:HD2	2	0.32	0.21	0.32
(2,31)	1:27:C:LEU:HD23	1:64:C:TYR:HD1	2	0.32	0.21	0.32
(2,31)	1:27:C:LEU:HD23	1:64:C:TYR:HD2	2	0.32	0.21	0.32
(2,390)	1:94:C:ILE:HG22	1:55:C:GLY:H	2	0.28	0.12	0.28
(2,390)	1:65:C:THR:HG21	1:55:C:GLY:H	2	0.28	0.12	0.28
(2,1243)	1:72:C:VAL:HG11	1:73:C:GLY:HA2	2	0.27	0.15	0.27
(2,1243)	1:72:C:VAL:HG12	1:73:C:GLY:HA2	2	0.27	0.15	0.27
(2,1243)	1:72:C:VAL:HG13	1:73:C:GLY:HA2	2	0.27	0.15	0.27
(2,1101)	1:62:C:LYS:HB3	1:62:C:LYS:HE3	2	0.25	0.0	0.25
(2,1128)	1:66:C:PHE:HZ	1:29:C:LEU:HD21	2	0.25	0.08	0.25
(2,1128)	1:66:C:PHE:HZ	1:29:C:LEU:HD22	2	0.25	0.08	0.25
(2,1128)	1:66:C:PHE:HZ	1:29:C:LEU:HD23	2	0.25	0.08	0.25

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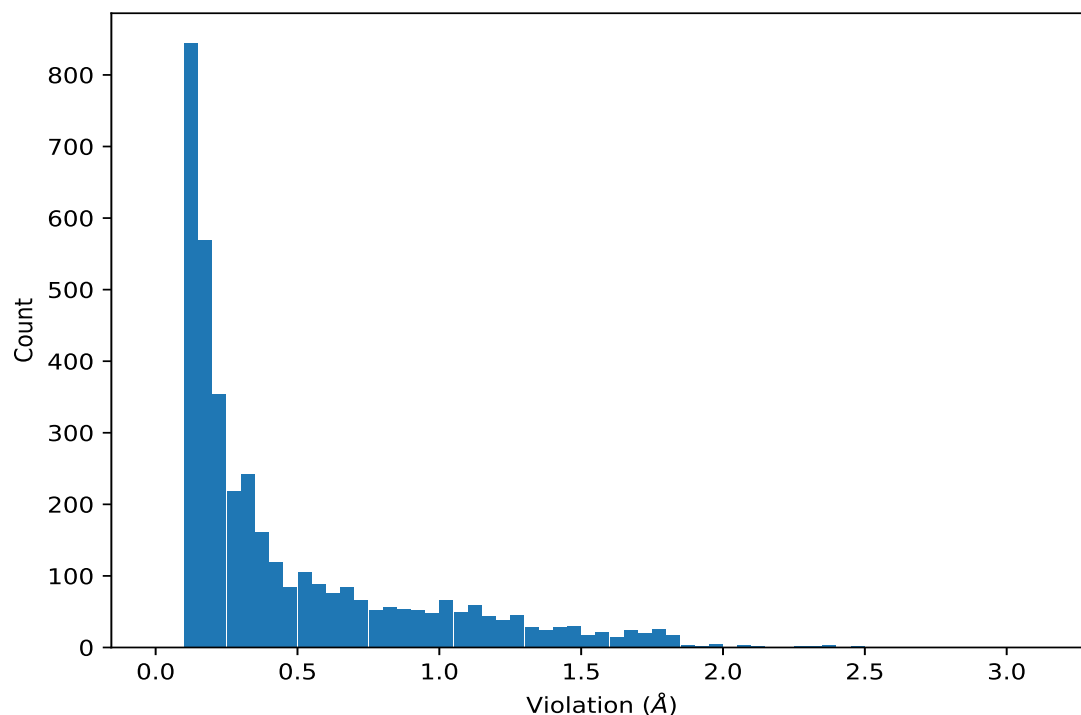
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,1104)	1:63:C:VAL:HG11	1:58:C:VAL:HB	2	0.24	0.07	0.24
(2,1104)	1:63:C:VAL:HG12	1:58:C:VAL:HB	2	0.24	0.07	0.24
(2,1104)	1:63:C:VAL:HG13	1:58:C:VAL:HB	2	0.24	0.07	0.24
(2,1526)	1:94:C:ILE:HD11	1:53:C:ASN:HD22	2	0.24	0.12	0.24
(2,1526)	1:94:C:ILE:HD12	1:53:C:ASN:HD22	2	0.24	0.12	0.24
(2,1526)	1:94:C:ILE:HD13	1:53:C:ASN:HD22	2	0.24	0.12	0.24
(2,66)	1:64:C:TYR:HE1	1:54:C:TRP:HB2	2	0.22	0.01	0.22
(2,66)	1:64:C:TYR:HE2	1:54:C:TRP:HB2	2	0.22	0.01	0.22
(2,876)	1:40:C:SER:HB2	1:26:C:LYS:HG3	2	0.21	0.05	0.21
(2,630)	1:19:C:LYS:HD3	1:16:C:VAL:HA	2	0.21	0.1	0.21
(2,853)	1:37:C:LYS:HA	1:37:C:LYS:HD2	2	0.2	0.04	0.2
(2,1313)	1:79:C:ILE:HD11	1:36:C:LEU:HG	2	0.17	0.04	0.17
(2,1313)	1:79:C:ILE:HD12	1:36:C:LEU:HG	2	0.17	0.04	0.17
(2,1313)	1:79:C:ILE:HD13	1:36:C:LEU:HG	2	0.17	0.04	0.17
(2,263)	1:37:C:LYS:HA	1:83:C:ASN:HD22	2	0.16	0.02	0.16
(2,565)	1:94:C:ILE:H	1:93:C:GLN:HB2	2	0.16	0.05	0.16
(2,1208)	1:71:C:THR:HG21	1:44:C:GLY:HA2	2	0.16	0.01	0.16
(2,1208)	1:71:C:THR:HG22	1:44:C:GLY:HA2	2	0.16	0.01	0.16
(2,1208)	1:71:C:THR:HG23	1:44:C:GLY:HA2	2	0.16	0.01	0.16
(2,313)	1:50:C:GLU:HB2	1:50:C:GLU:H	2	0.15	0.0	0.15
(2,78)	1:66:C:PHE:HE1	1:56:C:ILE:HG13	2	0.14	0.01	0.14
(2,78)	1:66:C:PHE:HE2	1:56:C:ILE:HG13	2	0.14	0.01	0.14
(2,88)	1:66:C:PHE:HE1	1:75:C:ILE:HG21	2	0.13	0.03	0.13
(2,88)	1:66:C:PHE:HE1	1:75:C:ILE:HG22	2	0.13	0.03	0.13
(2,88)	1:66:C:PHE:HE1	1:75:C:ILE:HG23	2	0.13	0.03	0.13
(2,88)	1:66:C:PHE:HE2	1:75:C:ILE:HG21	2	0.13	0.03	0.13
(2,88)	1:66:C:PHE:HE2	1:75:C:ILE:HG22	2	0.13	0.03	0.13
(2,88)	1:66:C:PHE:HE2	1:75:C:ILE:HG23	2	0.13	0.03	0.13
(2,1112)	1:64:C:TYR:HB3	1:56:C:ILE:HD11	2	0.13	0.0	0.13
(2,1112)	1:64:C:TYR:HB3	1:56:C:ILE:HD12	2	0.13	0.0	0.13
(2,1112)	1:64:C:TYR:HB3	1:56:C:ILE:HD13	2	0.13	0.0	0.13
(2,436)	1:72:C:VAL:HA	1:75:C:ILE:H	2	0.12	0.01	0.12
(2,729)	1:26:C:LYS:HG3	1:41:C:SER:HB2	2	0.12	0.01	0.12
(2,571)	1:4:C:LYS:HB2	1:2:C:ASN:HA	2	0.12	0.0	0.12
(2,1409)	1:86:C:GLY:HA2	1:84:C:ILE:HG21	2	0.12	0.01	0.12
(2,1409)	1:86:C:GLY:HA2	1:84:C:ILE:HG22	2	0.12	0.01	0.12
(2,1409)	1:86:C:GLY:HA2	1:84:C:ILE:HG23	2	0.12	0.01	0.12
(2,881)	1:40:C:SER:HA	1:27:C:LEU:HA	2	0.11	0.0	0.11
(2,35)	1:45:C:TYR:HD1	1:45:C:TYR:HB2	2	0.11	0.0	0.11
(2,35)	1:45:C:TYR:HD2	1:45:C:TYR:HB2	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	6	3.15
(2,30)	1:27:C:LEU:HD23	1:64:C:TYR:HE2	19	2.65
(2,1444)	1:89:C:ILE:HG13	1:87:C:PRO:HD3	11	2.51
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	20	2.47
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	10	2.45
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	1	2.39
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	13	2.39
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	3	2.37
(2,1505)	1:94:C:ILE:HG21	1:53:C:ASN:HB3	5	2.37
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	17	2.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	9	2.3
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	23	2.27
(2,782)	1:36:C:LEU:HD22	1:29:C:LEU:HB2	25	2.25
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	22	2.11
(2,782)	1:36:C:LEU:HD22	1:29:C:LEU:HB2	5	2.1
(2,1444)	1:89:C:ILE:HG13	1:87:C:PRO:HD3	1	2.08
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	23	2.07
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	12	2.06
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	5	1.99
(2,900)	1:45:C:TYR:HE2	1:24:C:LYS:HE2	17	1.98
(2,1505)	1:94:C:ILE:HG21	1:53:C:ASN:HB3	14	1.97
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	16	1.97
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	16	1.95
(2,691)	1:22:C:LYS:HE2	1:48:C:SER:HB2	24	1.93
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	3	1.93
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	25	1.87
(2,691)	1:22:C:LYS:HE2	1:48:C:SER:HB2	18	1.86
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	3	1.85
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	13	1.85
(2,966)	1:51:C:ASP:HA	1:52:C:LYS:HD2	5	1.84
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	25	1.84
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	19	1.83
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	4	1.82
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	17	1.82
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	3	1.81
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	16	1.81
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	16	1.8
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	5	1.8
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	19	1.8
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	2	1.8
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	4	1.8
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	5	1.8
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	7	1.8
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	8	1.8
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	19	1.8
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	9	1.8
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	16	1.79
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	2	1.79
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	6	1.79
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	14	1.79
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	19	1.79
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	5	1.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,948)	1:50:C:GLU:HG2	1:48:C:SER:HB2	17	1.78
(2,782)	1:36:C:LEU:HD23	1:29:C:LEU:HB2	7	1.78
(2,690)	1:22:C:LYS:HE3	1:48:C:SER:HB2	8	1.78
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	14	1.78
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	22	1.78
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	23	1.78
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	13	1.77
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	13	1.77
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	19	1.77
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	21	1.77
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	9	1.77
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	12	1.76
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	23	1.76
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	12	1.76
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	8	1.76
(2,117)	1:89:C:ILE:HG13	1:9:C:GLN:H	1	1.76
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	7	1.75
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	24	1.75
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	7	1.75
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	24	1.75
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	9	1.74
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	11	1.74
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	2	1.74
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	6	1.74
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	6	1.73
(2,782)	1:36:C:LEU:HD22	1:29:C:LEU:HB2	22	1.73
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	21	1.73
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	25	1.73
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	10	1.72
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	15	1.72
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	15	1.71
(2,958)	1:50:C:GLU:HB2	1:52:C:LYS:HG2	23	1.71
(2,104)	1:92:C:LYS:HD2	1:57:C:PHE:HZ	15	1.71
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	7	1.7
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	21	1.7
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	20	1.7
(2,690)	1:22:C:LYS:HE3	1:48:C:SER:HB2	13	1.7
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	16	1.7
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	10	1.7
(2,104)	1:92:C:LYS:HD2	1:57:C:PHE:HZ	17	1.7
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	12	1.69
(2,690)	1:22:C:LYS:HE3	1:48:C:SER:HB2	2	1.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	7	1.69
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	9	1.69
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	15	1.69
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	25	1.69
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	21	1.68
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	16	1.68
(2,250)	1:37:C:LYS:HG2	1:30:C:SER:H	8	1.68
(2,124)	1:9:C:GLN:HG2	1:31:C:MET:H	10	1.68
(2,104)	1:92:C:LYS:HD2	1:57:C:PHE:HZ	23	1.68
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	22	1.67
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	24	1.67
(2,104)	1:92:C:LYS:HD2	1:57:C:PHE:HZ	1	1.67
(2,966)	1:51:C:ASP:HA	1:52:C:LYS:HD2	19	1.66
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	1	1.66
(2,691)	1:22:C:LYS:HE2	1:48:C:SER:HB2	3	1.66
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	14	1.66
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	20	1.66
(2,1440)	1:85:C:LYS:HG2	1:86:C:GLY:HA3	6	1.65
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	25	1.65
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	5	1.65
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	10	1.65
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	2	1.65
(2,1367)	1:82:C:LEU:HD11	1:81:C:LYS:HE2	7	1.64
(2,1367)	1:82:C:LEU:HD12	1:81:C:LYS:HE2	7	1.64
(2,1367)	1:82:C:LEU:HD13	1:81:C:LYS:HE2	7	1.64
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	8	1.64
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	13	1.64
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	22	1.64
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	1	1.63
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	23	1.62
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	3	1.62
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	15	1.62
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	16	1.62
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	20	1.62
(2,189)	1:25:C:GLY:H	1:24:C:LYS:HD2	24	1.61
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	12	1.61
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	4	1.59
(2,691)	1:22:C:LYS:HE2	1:48:C:SER:HB2	5	1.59
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	11	1.59
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	18	1.59
(2,948)	1:50:C:GLU:HG2	1:48:C:SER:HB2	14	1.58
(2,691)	1:22:C:LYS:HE2	1:48:C:SER:HB2	25	1.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	20	1.58
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	6	1.57
(2,941)	1:48:C:SER:HB2	1:24:C:LYS:HG2	5	1.57
(2,691)	1:22:C:LYS:HE2	1:48:C:SER:HB2	8	1.57
(2,329)	1:52:C:LYS:H	1:68:C:GLU:HB3	4	1.57
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	21	1.57
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	16	1.56
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	19	1.56
(2,966)	1:51:C:ASP:HA	1:52:C:LYS:HD2	20	1.56
(2,782)	1:36:C:LEU:HD21	1:29:C:LEU:HB2	8	1.56
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	18	1.56
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	7	1.56
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	7	1.55
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	4	1.55
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	10	1.55
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	12	1.54
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	24	1.54
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	22	1.53
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	16	1.53
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	16	1.53
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	16	1.53
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	9	1.53
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	10	1.53
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	2	1.52
(2,1505)	1:94:C:ILE:HG22	1:53:C:ASN:HB3	19	1.52
(2,966)	1:51:C:ASP:HA	1:52:C:LYS:HD2	8	1.52
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	6	1.51
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	11	1.51
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	2	1.51
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	19	1.51
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	25	1.5
(2,117)	1:6:C:LEU:HD13	1:9:C:GLN:H	6	1.5
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	3	1.49
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	3	1.49
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	3	1.49
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	20	1.49
(2,1063)	1:58:C:VAL:HG21	1:86:C:GLY:HA2	22	1.49
(2,1063)	1:58:C:VAL:HG22	1:86:C:GLY:HA2	22	1.49
(2,1063)	1:58:C:VAL:HG23	1:86:C:GLY:HA2	22	1.49
(2,691)	1:22:C:LYS:HE2	1:48:C:SER:HB2	13	1.49
(2,329)	1:52:C:LYS:H	1:68:C:GLU:HB3	24	1.49
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	20	1.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	13	1.48
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	11	1.48
(2,30)	1:27:C:LEU:HD23	1:64:C:TYR:HE1	1	1.48
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	4	1.47
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	9	1.47
(2,972)	1:52:C:LYS:HD2	1:51:C:ASP:HB3	8	1.47
(2,731)	1:26:C:LYS:HB3	1:41:C:SER:HB2	4	1.47
(2,495)	1:80:C:ASN:H	1:81:C:LYS:HG3	16	1.47
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	15	1.46
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	1	1.46
(2,1440)	1:85:C:LYS:HG2	1:86:C:GLY:HA3	1	1.46
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	22	1.46
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	10	1.46
(2,495)	1:80:C:ASN:H	1:81:C:LYS:HG3	20	1.46
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	3	1.45
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	4	1.45
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	5	1.45
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	13	1.45
(2,782)	1:36:C:LEU:HD21	1:29:C:LEU:HB2	17	1.45
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	2	1.45
(2,941)	1:48:C:SER:HB2	1:24:C:LYS:HG2	13	1.44
(2,690)	1:22:C:LYS:HE3	1:48:C:SER:HB2	5	1.44
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	24	1.44
(2,1387)	1:84:C:ILE:HG13	1:58:C:VAL:HG11	1	1.43
(2,1155)	1:67:C:ASN:HB2	1:65:C:THR:HG21	24	1.43
(2,1155)	1:67:C:ASN:HB2	1:65:C:THR:HG22	24	1.43
(2,1155)	1:67:C:ASN:HB2	1:65:C:THR:HG23	24	1.43
(2,690)	1:22:C:LYS:HE3	1:48:C:SER:HB2	25	1.43
(2,516)	1:36:C:LEU:HB3	1:35:C:GLN:H	1	1.43
(2,46)	1:54:C:TRP:HE3	1:93:C:GLN:HB3	14	1.43
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	3	1.42
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	6	1.42
(2,495)	1:80:C:ASN:H	1:81:C:LYS:HG3	10	1.42
(2,14)	1:41:C:SER:HB2	1:26:C:LYS:HE2	4	1.42
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	13	1.41
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	13	1.41
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	13	1.41
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	25	1.41
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	22	1.41
(2,731)	1:26:C:LYS:HB3	1:41:C:SER:HB2	17	1.41
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	8	1.4
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	21	1.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	17	1.4
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	12	1.4
(2,690)	1:22:C:LYS:HE3	1:48:C:SER:HB2	3	1.4
(2,367)	1:58:C:VAL:HG21	1:88:C:TYR:H	22	1.4
(2,367)	1:58:C:VAL:HG22	1:88:C:TYR:H	22	1.4
(2,367)	1:58:C:VAL:HG23	1:88:C:TYR:H	22	1.4
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	25	1.4
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	18	1.39
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	18	1.39
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	18	1.39
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	19	1.39
(2,16)	1:25:C:GLY:HA2	1:22:C:LYS:HE2	10	1.39
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	1	1.39
(2,1521)	1:93:C:GLN:HB3	1:53:C:ASN:HB2	6	1.38
(2,1167)	1:68:C:GLU:HG2	1:52:C:LYS:HG3	4	1.38
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	12	1.38
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	4	1.38
(2,329)	1:52:C:LYS:H	1:68:C:GLU:HB3	25	1.37
(2,189)	1:25:C:GLY:H	1:24:C:LYS:HD2	3	1.37
(2,187)	1:24:C:LYS:HD2	1:24:C:LYS:H	8	1.37
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	8	1.36
(2,731)	1:26:C:LYS:HB3	1:41:C:SER:HB2	9	1.36
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	10	1.36
(2,367)	1:58:C:VAL:HG21	1:88:C:TYR:H	25	1.36
(2,367)	1:58:C:VAL:HG22	1:88:C:TYR:H	25	1.36
(2,367)	1:58:C:VAL:HG23	1:88:C:TYR:H	25	1.36
(2,14)	1:41:C:SER:HB2	1:26:C:LYS:HE2	9	1.36
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	21	1.35
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	18	1.35
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	17	1.35
(2,495)	1:80:C:ASN:H	1:81:C:LYS:HG3	17	1.35
(2,495)	1:80:C:ASN:H	1:81:C:LYS:HG3	25	1.35
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	3	1.34
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	25	1.34
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	21	1.34
(2,14)	1:41:C:SER:HB2	1:26:C:LYS:HE2	8	1.34
(2,14)	1:41:C:SER:HB2	1:26:C:LYS:HE2	14	1.34
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	7	1.33
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	7	1.33
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	7	1.33
(2,1358)	1:79:C:ILE:HA	1:84:C:ILE:HD12	25	1.33
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	9	1.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	11	1.33
(2,495)	1:80:C:ASN:H	1:81:C:LYS:HG3	7	1.33
(2,329)	1:52:C:LYS:H	1:68:C:GLU:HB3	7	1.33
(2,14)	1:41:C:SER:HB2	1:26:C:LYS:HE2	24	1.33
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	5	1.32
(2,1022)	1:56:C:ILE:HG13	1:90:C:GLU:HB2	5	1.32
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG21	14	1.32
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG22	14	1.32
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG23	14	1.32
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	24	1.32
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	24	1.31
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	21	1.31
(2,959)	1:50:C:GLU:HA	1:69:C:LYS:HE2	12	1.31
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	21	1.31
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	10	1.3
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	13	1.3
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	5	1.3
(2,495)	1:80:C:ASN:H	1:81:C:LYS:HG3	24	1.3
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	8	1.3
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	9	1.29
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	24	1.29
(2,1026)	1:56:C:ILE:HA	1:91:C:ILE:HG13	2	1.29
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	1	1.29
(2,890)	1:41:C:SER:HB2	1:26:C:LYS:HB2	4	1.29
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	1	1.29
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	21	1.29
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	25	1.29
(2,14)	1:41:C:SER:HB2	1:26:C:LYS:HE2	17	1.29
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	17	1.28
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	15	1.28
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	15	1.28
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	15	1.28
(2,1197)	1:70:C:SER:HB3	1:67:C:ASN:HB3	24	1.28
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	9	1.28
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	16	1.28
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	22	1.28
(2,890)	1:41:C:SER:HB2	1:26:C:LYS:HB2	1	1.28
(2,890)	1:41:C:SER:HB2	1:26:C:LYS:HB2	17	1.28
(2,731)	1:26:C:LYS:HB3	1:41:C:SER:HB2	8	1.28
(2,706)	1:25:C:GLY:HA2	1:26:C:LYS:HE2	13	1.28
(2,495)	1:80:C:ASN:H	1:81:C:LYS:HG3	2	1.28
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	16	1.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	2	1.27
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	2	1.27
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	2	1.27
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	7	1.27
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	23	1.27
(2,973)	1:52:C:LYS:HD2	1:51:C:ASP:HB2	20	1.27
(2,875)	1:40:C:SER:HB3	1:26:C:LYS:HG3	5	1.27
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	16	1.27
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	20	1.27
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	13	1.27
(2,495)	1:80:C:ASN:H	1:81:C:LYS:HG3	11	1.27
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	7	1.27
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	11	1.27
(2,1457)	1:90:C:GLU:HA	1:89:C:ILE:HG22	1	1.26
(2,1440)	1:85:C:LYS:HG2	1:86:C:GLY:HA3	25	1.26
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	11	1.26
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	4	1.26
(2,731)	1:26:C:LYS:HB3	1:41:C:SER:HB2	14	1.26
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	23	1.25
(2,1358)	1:79:C:ILE:HA	1:84:C:ILE:HD13	22	1.25
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	14	1.25
(2,731)	1:26:C:LYS:HB3	1:41:C:SER:HB2	3	1.25
(2,14)	1:41:C:SER:HB2	1:26:C:LYS:HE2	3	1.25
(2,1367)	1:82:C:LEU:HD11	1:81:C:LYS:HE2	24	1.24
(2,1367)	1:82:C:LEU:HD12	1:81:C:LYS:HE2	24	1.24
(2,1367)	1:82:C:LEU:HD13	1:81:C:LYS:HE2	24	1.24
(2,782)	1:29:C:LEU:HB2	1:27:C:LEU:HB2	23	1.24
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	21	1.24
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	15	1.23
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	19	1.23
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	10	1.23
(2,1026)	1:56:C:ILE:HA	1:91:C:ILE:HG13	17	1.23
(2,973)	1:52:C:LYS:HD2	1:51:C:ASP:HB2	19	1.23
(2,959)	1:50:C:GLU:HA	1:69:C:LYS:HE2	11	1.23
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	7	1.23
(2,782)	1:29:C:LEU:HB2	1:27:C:LEU:HB2	10	1.23
(2,495)	1:80:C:ASN:H	1:81:C:LYS:HG3	14	1.23
(2,495)	1:80:C:ASN:H	1:81:C:LYS:HG3	22	1.23
(2,250)	1:37:C:LYS:HG2	1:30:C:SER:H	13	1.23
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	7	1.22
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	18	1.22
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	20	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,900)	1:45:C:TYR:HE1	1:24:C:LYS:HE2	12	1.22
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	15	1.22
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	8	1.22
(2,111)	1:4:C:LYS:HB2	1:2:C:ASN:H	8	1.22
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	5	1.22
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	9	1.21
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	20	1.21
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	20	1.21
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	20	1.21
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	3	1.21
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	4	1.21
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	18	1.2
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	21	1.2
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG21	10	1.2
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG22	10	1.2
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG23	10	1.2
(2,883)	1:28:C:SER:HB2	1:39:C:THR:HA	18	1.2
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	23	1.2
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	12	1.2
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	7	1.2
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	3	1.19
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	3	1.19
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	3	1.19
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	25	1.19
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	1	1.19
(2,948)	1:50:C:GLU:HG2	1:48:C:SER:HB2	21	1.19
(2,938)	1:69:C:LYS:HG2	1:48:C:SER:HB2	1	1.19
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	13	1.19
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	22	1.19
(2,250)	1:37:C:LYS:HG2	1:30:C:SER:H	12	1.19
(2,105)	1:2:C:ASN:H	1:3:C:GLN:HE21	7	1.19
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	14	1.18
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	14	1.18
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	14	1.18
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	11	1.18
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	4	1.18
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	5	1.18
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	1	1.18
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	20	1.17
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	20	1.17
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	20	1.17
(2,883)	1:40:C:SER:HB3	1:39:C:THR:HA	4	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,731)	1:26:C:LYS:HB3	1:41:C:SER:HB2	21	1.17
(2,731)	1:26:C:LYS:HB3	1:41:C:SER:HB2	24	1.17
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	15	1.17
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	17	1.16
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	17	1.16
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	17	1.16
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	4	1.16
(2,1521)	1:93:C:GLN:HB3	1:53:C:ASN:HB2	8	1.16
(2,1167)	1:68:C:GLU:HG2	1:52:C:LYS:HG3	7	1.16
(2,1167)	1:68:C:GLU:HG2	1:52:C:LYS:HG3	9	1.16
(2,1022)	1:56:C:ILE:HG13	1:90:C:GLU:HB2	9	1.16
(2,779)	1:28:C:SER:HB3	1:39:C:THR:HA	22	1.16
(2,769)	1:27:C:LEU:HD21	1:72:C:VAL:HB	15	1.16
(2,769)	1:27:C:LEU:HD22	1:72:C:VAL:HB	15	1.16
(2,769)	1:27:C:LEU:HD23	1:72:C:VAL:HB	15	1.16
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	16	1.15
(2,1026)	1:56:C:ILE:HA	1:91:C:ILE:HG13	8	1.15
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	4	1.15
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	3	1.15
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	21	1.15
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	12	1.15
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	18	1.15
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	24	1.14
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	2	1.14
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	2	1.14
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	2	1.14
(2,890)	1:41:C:SER:HB2	1:26:C:LYS:HB2	2	1.14
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	2	1.14
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	14	1.14
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	16	1.14
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	18	1.14
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	2	1.14
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	6	1.14
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	15	1.14
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	16	1.13
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	16	1.13
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	16	1.13
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	25	1.13
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	25	1.13
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	25	1.13
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	6	1.13
(2,1197)	1:70:C:SER:HB3	1:67:C:ASN:HB3	2	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	18	1.13
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	6	1.13
(2,782)	1:29:C:LEU:HB2	1:27:C:LEU:HB2	20	1.13
(2,689)	1:69:C:LYS:HG2	1:47:C:ILE:HB	22	1.13
(2,671)	1:22:C:LYS:HE3	1:20:C:LEU:HA	9	1.13
(2,495)	1:80:C:ASN:H	1:81:C:LYS:HG3	4	1.13
(2,124)	1:9:C:GLN:HG2	1:31:C:MET:H	23	1.13
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	13	1.13
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	4	1.12
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	11	1.12
(2,1401)	1:85:C:LYS:HB2	1:34:C:ASN:HA	18	1.12
(2,731)	1:26:C:LYS:HB3	1:41:C:SER:HB2	1	1.12
(2,731)	1:26:C:LYS:HB3	1:41:C:SER:HB2	5	1.12
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	9	1.12
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	17	1.12
(2,329)	1:52:C:LYS:H	1:68:C:GLU:HB3	16	1.12
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	3	1.12
(2,117)	1:6:C:LEU:HD13	1:9:C:GLN:H	5	1.12
(2,46)	1:54:C:TRP:HE3	1:93:C:GLN:HB3	19	1.12
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	21	1.11
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	21	1.11
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	21	1.11
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	7	1.11
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	12	1.11
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	16	1.11
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	10	1.11
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	12	1.11
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	5	1.11
(2,1167)	1:68:C:GLU:HG2	1:52:C:LYS:HG3	5	1.11
(2,1159)	1:67:C:ASN:HB3	1:70:C:SER:HA	2	1.11
(2,1063)	1:58:C:VAL:HG21	1:86:C:GLY:HA2	25	1.11
(2,1063)	1:58:C:VAL:HG22	1:86:C:GLY:HA2	25	1.11
(2,1063)	1:58:C:VAL:HG23	1:86:C:GLY:HA2	25	1.11
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	17	1.11
(2,1022)	1:56:C:ILE:HG13	1:90:C:GLU:HB2	20	1.11
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	9	1.11
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG21	17	1.1
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG22	17	1.1
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG23	17	1.1
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	21	1.09
(2,1167)	1:68:C:GLU:HG2	1:52:C:LYS:HG3	24	1.09
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	5	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG21	23	1.09
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG22	23	1.09
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG23	23	1.09
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	8	1.09
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	19	1.09
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	24	1.09
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	14	1.08
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	14	1.08
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	14	1.08
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	23	1.08
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	23	1.08
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	23	1.08
(2,1022)	1:56:C:ILE:HG13	1:90:C:GLU:HB2	1	1.08
(2,1022)	1:56:C:ILE:HG13	1:90:C:GLU:HB2	16	1.08
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	14	1.08
(2,731)	1:26:C:LYS:HB3	1:41:C:SER:HB2	25	1.08
(2,250)	1:37:C:LYS:HG2	1:30:C:SER:H	11	1.08
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	6	1.08
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	7	1.08
(2,1159)	1:67:C:ASN:HB3	1:70:C:SER:HA	24	1.07
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	6	1.07
(2,495)	1:80:C:ASN:H	1:81:C:LYS:HG3	9	1.07
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	1	1.07
(2,61)	1:57:C:PHE:HZ	1:62:C:LYS:HD2	24	1.07
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	23	1.06
(2,1367)	1:82:C:LEU:HD11	1:81:C:LYS:HE2	2	1.06
(2,1367)	1:82:C:LEU:HD12	1:81:C:LYS:HE2	2	1.06
(2,1367)	1:82:C:LEU:HD13	1:81:C:LYS:HE2	2	1.06
(2,1309)	1:79:C:ILE:HG13	1:36:C:LEU:HD12	20	1.06
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	1	1.06
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	25	1.06
(2,903)	1:45:C:TYR:HB2	1:24:C:LYS:HG2	4	1.06
(2,734)	1:27:C:LEU:HD11	1:20:C:LEU:HG	8	1.06
(2,734)	1:27:C:LEU:HD12	1:20:C:LEU:HG	8	1.06
(2,734)	1:27:C:LEU:HD13	1:20:C:LEU:HG	8	1.06
(2,706)	1:25:C:GLY:HA2	1:26:C:LYS:HE2	5	1.06
(2,689)	1:22:C:LYS:HD2	1:47:C:ILE:HB	6	1.06
(2,15)	1:25:C:GLY:HA2	1:22:C:LYS:HE3	8	1.06
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	19	1.06
(2,1441)	1:85:C:LYS:HG2	1:86:C:GLY:HA2	6	1.05
(2,1197)	1:70:C:SER:HB3	1:67:C:ASN:HB3	25	1.05
(2,1022)	1:56:C:ILE:HG13	1:90:C:GLU:HB2	23	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,900)	1:45:C:TYR:HE2	1:24:C:LYS:HE2	21	1.05
(2,731)	1:26:C:LYS:HB3	1:41:C:SER:HB2	2	1.05
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	8	1.05
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	20	1.05
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	12	1.05
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	25	1.04
(2,938)	1:48:C:SER:HB2	1:24:C:LYS:HD2	8	1.04
(2,731)	1:26:C:LYS:HB3	1:41:C:SER:HB2	6	1.04
(2,691)	1:22:C:LYS:HE2	1:48:C:SER:HB2	2	1.04
(2,356)	1:56:C:ILE:HG12	1:64:C:TYR:H	16	1.04
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	20	1.04
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	16	1.04
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	4	1.03
(2,1022)	1:56:C:ILE:HG13	1:90:C:GLU:HB2	17	1.03
(2,1020)	1:56:C:ILE:HG12	1:64:C:TYR:HB2	16	1.03
(2,890)	1:41:C:SER:HB2	1:26:C:LYS:HB2	9	1.03
(2,765)	1:27:C:LEU:HD21	1:40:C:SER:HB3	1	1.03
(2,765)	1:27:C:LEU:HD22	1:40:C:SER:HB3	1	1.03
(2,765)	1:27:C:LEU:HD23	1:40:C:SER:HB3	1	1.03
(2,689)	1:69:C:LYS:HG2	1:47:C:ILE:HB	3	1.03
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	13	1.02
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	14	1.02
(2,1061)	1:58:C:VAL:HG21	1:61:C:GLU:HG2	19	1.02
(2,1061)	1:58:C:VAL:HG22	1:61:C:GLU:HG2	19	1.02
(2,1061)	1:58:C:VAL:HG23	1:61:C:GLU:HG2	19	1.02
(2,1022)	1:56:C:ILE:HG13	1:90:C:GLU:HB2	22	1.02
(2,948)	1:50:C:GLU:HG2	1:48:C:SER:HB2	1	1.02
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG21	15	1.02
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG22	15	1.02
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG23	15	1.02
(2,834)	1:36:C:LEU:HD21	1:31:C:MET:HB2	20	1.02
(2,834)	1:36:C:LEU:HD22	1:31:C:MET:HB2	20	1.02
(2,834)	1:36:C:LEU:HD23	1:31:C:MET:HB2	20	1.02
(2,734)	1:27:C:LEU:HD11	1:20:C:LEU:HG	5	1.02
(2,734)	1:27:C:LEU:HD12	1:20:C:LEU:HG	5	1.02
(2,734)	1:27:C:LEU:HD13	1:20:C:LEU:HG	5	1.02
(2,495)	1:80:C:ASN:H	1:81:C:LYS:HG3	6	1.02
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	10	1.02
(2,189)	1:25:C:GLY:H	1:24:C:LYS:HD2	4	1.02
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	1	1.01
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	1	1.01
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	1	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	12	1.01
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	12	1.01
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	12	1.01
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	17	1.01
(2,1159)	1:67:C:ASN:HB3	1:70:C:SER:HA	23	1.01
(2,959)	1:50:C:GLU:HA	1:69:C:LYS:HE2	6	1.01
(2,771)	1:27:C:LEU:HD21	1:75:C:ILE:HB	1	1.01
(2,771)	1:27:C:LEU:HD22	1:75:C:ILE:HB	1	1.01
(2,771)	1:27:C:LEU:HD23	1:75:C:ILE:HB	1	1.01
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	24	1.01
(2,1444)	1:89:C:ILE:HG13	1:87:C:PRO:HD3	24	1.0
(2,1358)	1:79:C:ILE:HA	1:84:C:ILE:HD11	5	1.0
(2,1235)	1:52:C:LYS:HG3	1:68:C:GLU:HB3	24	1.0
(2,1061)	1:58:C:VAL:HG21	1:61:C:GLU:HG2	9	1.0
(2,1061)	1:58:C:VAL:HG22	1:61:C:GLU:HG2	9	1.0
(2,1061)	1:58:C:VAL:HG23	1:61:C:GLU:HG2	9	1.0
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG21	16	1.0
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG22	16	1.0
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG23	16	1.0
(2,900)	1:45:C:TYR:HE1	1:24:C:LYS:HE2	18	1.0
(2,890)	1:41:C:SER:HB2	1:26:C:LYS:HB2	20	1.0
(2,782)	1:36:C:LEU:HD21	1:29:C:LEU:HB2	19	1.0
(2,578)	1:9:C:GLN:HG2	1:13:C:ILE:HG21	6	1.0
(2,578)	1:9:C:GLN:HG2	1:13:C:ILE:HG22	6	1.0
(2,578)	1:9:C:GLN:HG2	1:13:C:ILE:HG23	6	1.0
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	21	1.0
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	14	1.0
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	5	1.0
(2,15)	1:25:C:GLY:HA2	1:22:C:LYS:HE3	5	1.0
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	19	0.99
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	19	0.99
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	19	0.99
(2,1296)	1:76:C:SER:HB2	1:79:C:ILE:HB	3	0.99
(2,1167)	1:68:C:GLU:HG2	1:52:C:LYS:HG3	17	0.99
(2,1166)	1:68:C:GLU:HB3	1:52:C:LYS:HB3	25	0.99
(2,1159)	1:67:C:ASN:HB3	1:70:C:SER:HA	4	0.99
(2,1026)	1:56:C:ILE:HA	1:91:C:ILE:HG13	15	0.99
(2,948)	1:50:C:GLU:HG2	1:48:C:SER:HB2	16	0.99
(2,890)	1:41:C:SER:HB2	1:26:C:LYS:HB2	8	0.99
(2,890)	1:41:C:SER:HB2	1:26:C:LYS:HB2	14	0.99
(2,771)	1:27:C:LEU:HD21	1:75:C:ILE:HB	15	0.99
(2,771)	1:27:C:LEU:HD22	1:75:C:ILE:HB	15	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,771)	1:27:C:LEU:HD23	1:75:C:ILE:HB	15	0.99
(2,497)	1:81:C:LYS:HE3	1:81:C:LYS:H	8	0.99
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	11	0.99
(2,1296)	1:76:C:SER:HB2	1:79:C:ILE:HB	11	0.98
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	19	0.98
(2,1167)	1:68:C:GLU:HG2	1:52:C:LYS:HG3	14	0.98
(2,1166)	1:68:C:GLU:HB3	1:52:C:LYS:HB3	2	0.98
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	1	0.98
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	19	0.98
(2,941)	1:48:C:SER:HB2	1:24:C:LYS:HG2	8	0.98
(2,770)	1:27:C:LEU:HD21	1:72:C:VAL:HA	1	0.98
(2,770)	1:27:C:LEU:HD22	1:72:C:VAL:HA	1	0.98
(2,770)	1:27:C:LEU:HD23	1:72:C:VAL:HA	1	0.98
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	9	0.98
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	18	0.98
(2,15)	1:25:C:GLY:HA2	1:22:C:LYS:HE3	3	0.98
(2,15)	1:25:C:GLY:HA2	1:22:C:LYS:HE3	7	0.98
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	22	0.97
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	22	0.97
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	22	0.97
(2,1367)	1:82:C:LEU:HD11	1:81:C:LYS:HE2	16	0.97
(2,1367)	1:82:C:LEU:HD12	1:81:C:LYS:HE2	16	0.97
(2,1367)	1:82:C:LEU:HD13	1:81:C:LYS:HE2	16	0.97
(2,1296)	1:76:C:SER:HB2	1:79:C:ILE:HB	21	0.97
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	4	0.97
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	5	0.97
(2,782)	1:36:C:LEU:HD23	1:29:C:LEU:HB2	1	0.97
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	9	0.97
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	8	0.97
(2,117)	1:6:C:LEU:HD11	1:9:C:GLN:H	4	0.97
(2,1521)	1:93:C:GLN:HB3	1:53:C:ASN:HB2	4	0.96
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	16	0.96
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	14	0.95
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	23	0.95
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	17	0.95
(2,1441)	1:85:C:LYS:HG2	1:86:C:GLY:HA2	25	0.94
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	3	0.94
(2,1296)	1:76:C:SER:HB2	1:79:C:ILE:HB	24	0.94
(2,1167)	1:68:C:GLU:HG2	1:52:C:LYS:HG3	18	0.94
(2,890)	1:41:C:SER:HB2	1:26:C:LYS:HB2	25	0.94
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	2	0.94
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	15	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	24	0.94
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	23	0.94
(2,1296)	1:76:C:SER:HB2	1:79:C:ILE:HB	15	0.93
(2,890)	1:41:C:SER:HB2	1:26:C:LYS:HB2	5	0.93
(2,770)	1:27:C:LEU:HD21	1:72:C:VAL:HA	15	0.93
(2,770)	1:27:C:LEU:HD22	1:72:C:VAL:HA	15	0.93
(2,770)	1:27:C:LEU:HD23	1:72:C:VAL:HA	15	0.93
(2,734)	1:27:C:LEU:HD11	1:20:C:LEU:HG	12	0.93
(2,734)	1:27:C:LEU:HD12	1:20:C:LEU:HG	12	0.93
(2,734)	1:27:C:LEU:HD13	1:20:C:LEU:HG	12	0.93
(2,731)	1:26:C:LYS:HB3	1:41:C:SER:HB2	20	0.93
(2,632)	1:19:C:LYS:HG3	1:16:C:VAL:HA	5	0.93
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	17	0.93
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	8	0.92
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	22	0.92
(2,1296)	1:76:C:SER:HB2	1:79:C:ILE:HB	2	0.92
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	13	0.92
(2,1235)	1:52:C:LYS:HG3	1:68:C:GLU:HB3	4	0.92
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD11	13	0.92
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD12	13	0.92
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD13	13	0.92
(2,769)	1:27:C:LEU:HD21	1:72:C:VAL:HB	1	0.92
(2,769)	1:27:C:LEU:HD22	1:72:C:VAL:HB	1	0.92
(2,769)	1:27:C:LEU:HD23	1:72:C:VAL:HB	1	0.92
(2,689)	1:69:C:LYS:HG2	1:47:C:ILE:HB	17	0.92
(2,191)	1:25:C:GLY:H	1:24:C:LYS:HG3	10	0.92
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	21	0.92
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	10	0.91
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	10	0.91
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	10	0.91
(2,1367)	1:82:C:LEU:HD11	1:81:C:LYS:HE2	25	0.91
(2,1367)	1:82:C:LEU:HD12	1:81:C:LYS:HE2	25	0.91
(2,1367)	1:82:C:LEU:HD13	1:81:C:LYS:HE2	25	0.91
(2,1296)	1:76:C:SER:HB2	1:79:C:ILE:HB	20	0.91
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	11	0.91
(2,1167)	1:68:C:GLU:HG2	1:52:C:LYS:HG3	11	0.91
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	5	0.91
(2,734)	1:27:C:LEU:HD11	1:20:C:LEU:HG	7	0.91
(2,734)	1:27:C:LEU:HD12	1:20:C:LEU:HG	7	0.91
(2,734)	1:27:C:LEU:HD13	1:20:C:LEU:HG	7	0.91
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	7	0.91
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	19	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,890)	1:41:C:SER:HB2	1:26:C:LYS:HB2	3	0.9
(2,706)	1:25:C:GLY:HA2	1:26:C:LYS:HE2	10	0.9
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	19	0.9
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	1	0.89
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG21	22	0.89
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG22	22	0.89
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG23	22	0.89
(2,941)	1:48:C:SER:HB2	1:24:C:LYS:HG2	2	0.89
(2,890)	1:41:C:SER:HB2	1:26:C:LYS:HB2	6	0.89
(2,782)	1:36:C:LEU:HD21	1:29:C:LEU:HB2	16	0.89
(2,588)	1:13:C:ILE:HG12	1:12:C:SER:HB2	6	0.89
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	10	0.88
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	14	0.88
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG11	21	0.88
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG12	21	0.88
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG13	21	0.88
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	8	0.88
(2,804)	1:30:C:SER:HA	1:13:C:ILE:HG22	6	0.88
(2,756)	1:36:C:LEU:HD11	1:29:C:LEU:HA	22	0.88
(2,356)	1:56:C:ILE:HG12	1:64:C:TYR:H	9	0.88
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	25	0.88
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	19	0.88
(2,1296)	1:76:C:SER:HB2	1:79:C:ILE:HB	9	0.87
(2,1296)	1:76:C:SER:HB2	1:79:C:ILE:HB	16	0.87
(2,1296)	1:76:C:SER:HB2	1:79:C:ILE:HB	23	0.87
(2,1235)	1:52:C:LYS:HG3	1:68:C:GLU:HB3	10	0.87
(2,1197)	1:70:C:SER:HB3	1:67:C:ASN:HB3	11	0.87
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	8	0.87
(2,948)	1:50:C:GLU:HG2	1:48:C:SER:HB2	11	0.87
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	11	0.87
(2,706)	1:25:C:GLY:HA2	1:26:C:LYS:HE2	12	0.87
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	7	0.87
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	14	0.87
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	6	0.87
(2,15)	1:25:C:GLY:HA2	1:22:C:LYS:HE3	25	0.87
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	19	0.87
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	1	0.86
(2,1167)	1:68:C:GLU:HG2	1:52:C:LYS:HG3	1	0.86
(2,941)	1:48:C:SER:HB2	1:24:C:LYS:HG2	23	0.86
(2,890)	1:41:C:SER:HB2	1:26:C:LYS:HB2	21	0.86
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	18	0.86
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	15	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1424)	1:88:C:TYR:HA	1:87:C:PRO:HB3	3	0.85
(2,1347)	1:80:C:ASN:HA	1:36:C:LEU:HB2	15	0.85
(2,1197)	1:70:C:SER:HB3	1:67:C:ASN:HB3	10	0.85
(2,941)	1:48:C:SER:HB2	1:24:C:LYS:HG2	18	0.85
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	21	0.85
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	17	0.85
(2,734)	1:27:C:LEU:HD11	1:20:C:LEU:HG	21	0.85
(2,734)	1:27:C:LEU:HD12	1:20:C:LEU:HG	21	0.85
(2,734)	1:27:C:LEU:HD13	1:20:C:LEU:HG	21	0.85
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	6	0.85
(2,330)	1:53:C:ASN:HD21	1:53:C:ASN:H	13	0.85
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	5	0.85
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	12	0.85
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	5	0.85
(2,104)	1:92:C:LYS:HD2	1:57:C:PHE:HZ	4	0.85
(2,900)	1:45:C:TYR:HE1	1:24:C:LYS:HE2	8	0.84
(2,890)	1:41:C:SER:HB2	1:26:C:LYS:HB2	24	0.84
(2,782)	1:36:C:LEU:HD22	1:29:C:LEU:HB2	6	0.84
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	15	0.84
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	22	0.84
(2,117)	1:6:C:LEU:HD13	1:9:C:GLN:H	3	0.84
(2,14)	1:41:C:SER:HB2	1:26:C:LYS:HE2	21	0.84
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	7	0.83
(2,1159)	1:67:C:ASN:HB3	1:70:C:SER:HA	11	0.83
(2,804)	1:30:C:SER:HA	1:13:C:ILE:HG22	16	0.83
(2,804)	1:30:C:SER:HA	1:13:C:ILE:HG22	19	0.83
(2,632)	1:19:C:LYS:HG3	1:16:C:VAL:HA	16	0.83
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	13	0.83
(2,191)	1:25:C:GLY:H	1:24:C:LYS:HG3	9	0.83
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	22	0.83
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	10	0.83
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	18	0.83
(2,1424)	1:88:C:TYR:HA	1:87:C:PRO:HB3	25	0.82
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	22	0.82
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	11	0.82
(2,948)	1:50:C:GLU:HG2	1:48:C:SER:HB2	24	0.82
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	3	0.82
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	10	0.82
(2,834)	1:36:C:LEU:HD21	1:31:C:MET:HB2	25	0.82
(2,834)	1:36:C:LEU:HD22	1:31:C:MET:HB2	25	0.82
(2,834)	1:36:C:LEU:HD23	1:31:C:MET:HB2	25	0.82
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	9	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,356)	1:56:C:ILE:HG12	1:64:C:TYR:H	17	0.82
(2,330)	1:53:C:ASN:HD21	1:53:C:ASN:H	11	0.82
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	21	0.82
(2,1296)	1:76:C:SER:HB2	1:79:C:ILE:HB	25	0.81
(2,1160)	1:68:C:GLU:HB3	1:47:C:ILE:HB	25	0.81
(2,900)	1:45:C:TYR:HE2	1:24:C:LYS:HE2	19	0.81
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	25	0.81
(2,782)	1:36:C:LEU:HD23	1:29:C:LEU:HB2	21	0.81
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	24	0.81
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	22	0.81
(2,356)	1:56:C:ILE:HG12	1:64:C:TYR:H	23	0.81
(2,189)	1:25:C:GLY:H	1:24:C:LYS:HD2	2	0.81
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	1	0.81
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	12	0.8
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	12	0.8
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	12	0.8
(2,1162)	1:51:C:ASP:HB3	1:52:C:LYS:HA	10	0.8
(2,959)	1:50:C:GLU:HA	1:69:C:LYS:HE2	19	0.8
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	12	0.8
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	19	0.8
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	17	0.8
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	1	0.8
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	2	0.8
(2,356)	1:56:C:ILE:HG12	1:64:C:TYR:H	5	0.8
(2,330)	1:52:C:LYS:H	1:53:C:ASN:H	9	0.8
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	8	0.8
(2,237)	1:34:C:ASN:HD22	1:35:C:GLN:H	20	0.8
(2,117)	1:89:C:ILE:HG13	1:9:C:GLN:H	13	0.8
(2,15)	1:25:C:GLY:HA2	1:22:C:LYS:HE3	6	0.8
(2,689)	1:69:C:LYS:HG2	1:47:C:ILE:HB	25	0.79
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	18	0.79
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	1	0.79
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	2	0.79
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	14	0.79
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	19	0.78
(2,1296)	1:76:C:SER:HB2	1:79:C:ILE:HB	10	0.78
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	14	0.78
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	12	0.78
(2,1162)	1:51:C:ASP:HB3	1:52:C:LYS:HA	16	0.78
(2,1162)	1:51:C:ASP:HB3	1:52:C:LYS:HA	17	0.78
(2,690)	1:22:C:LYS:HE3	1:48:C:SER:HB2	24	0.78
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	16	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,117)	1:6:C:LEU:HD13	1:9:C:GLN:H	16	0.78
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	2	0.78
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	2	0.77
(2,1399)	1:58:C:VAL:HG21	1:86:C:GLY:HA3	22	0.77
(2,1296)	1:76:C:SER:HB2	1:79:C:ILE:HB	4	0.77
(2,1226)	1:72:C:VAL:HG22	1:40:C:SER:HA	3	0.77
(2,1061)	1:58:C:VAL:HG21	1:61:C:GLU:HG2	10	0.77
(2,1061)	1:58:C:VAL:HG22	1:61:C:GLU:HG2	10	0.77
(2,1061)	1:58:C:VAL:HG23	1:61:C:GLU:HG2	10	0.77
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG11	18	0.77
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG12	18	0.77
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG13	18	0.77
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	14	0.77
(2,782)	1:36:C:LEU:HD22	1:29:C:LEU:HB2	15	0.77
(2,659)	1:20:C:LEU:HD11	1:22:C:LYS:HE3	9	0.77
(2,659)	1:20:C:LEU:HD12	1:22:C:LYS:HE3	9	0.77
(2,659)	1:20:C:LEU:HD13	1:22:C:LYS:HE3	9	0.77
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	24	0.77
(2,497)	1:81:C:LYS:HE3	1:81:C:LYS:H	13	0.77
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	25	0.77
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	9	0.77
(2,1444)	1:89:C:ILE:HG13	1:87:C:PRO:HD3	14	0.76
(2,1225)	1:72:C:VAL:HG11	1:40:C:SER:HA	19	0.76
(2,1225)	1:72:C:VAL:HG12	1:40:C:SER:HA	19	0.76
(2,1225)	1:72:C:VAL:HG13	1:40:C:SER:HA	19	0.76
(2,1162)	1:51:C:ASP:HB3	1:52:C:LYS:HA	22	0.76
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG11	19	0.76
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG12	19	0.76
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG13	19	0.76
(2,934)	1:47:C:ILE:HB	1:48:C:SER:HB2	3	0.76
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	7	0.76
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD11	15	0.76
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD12	15	0.76
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD13	15	0.76
(2,782)	1:36:C:LEU:HD21	1:29:C:LEU:HB2	14	0.76
(2,330)	1:53:C:ASN:HD21	1:53:C:ASN:H	18	0.76
(2,1162)	1:51:C:ASP:HB3	1:52:C:LYS:HA	2	0.75
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	3	0.75
(2,16)	1:25:C:GLY:HA2	1:22:C:LYS:HE2	21	0.75
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	25	0.75
(2,1367)	1:82:C:LEU:HD11	1:81:C:LYS:HE2	8	0.74
(2,1367)	1:82:C:LEU:HD12	1:81:C:LYS:HE2	8	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1367)	1:82:C:LEU:HD13	1:81:C:LYS:HE2	8	0.74
(2,1063)	1:58:C:VAL:HG21	1:86:C:GLY:HA2	15	0.74
(2,1063)	1:58:C:VAL:HG22	1:86:C:GLY:HA2	15	0.74
(2,1063)	1:58:C:VAL:HG23	1:86:C:GLY:HA2	15	0.74
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	13	0.74
(2,782)	1:36:C:LEU:HD22	1:29:C:LEU:HB2	11	0.74
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	12	0.74
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	6	0.74
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	7	0.74
(2,1504)	1:93:C:GLN:HE22	1:53:C:ASN:HA	10	0.73
(2,1467)	1:66:C:PHE:HE2	1:91:C:ILE:HD11	2	0.73
(2,1424)	1:88:C:TYR:HA	1:87:C:PRO:HB3	7	0.73
(2,1424)	1:88:C:TYR:HA	1:87:C:PRO:HB3	23	0.73
(2,1356)	1:81:C:LYS:HD2	1:81:C:LYS:HA	22	0.73
(2,1226)	1:72:C:VAL:HG23	1:40:C:SER:HA	16	0.73
(2,1167)	1:68:C:GLU:HG2	1:52:C:LYS:HG3	16	0.73
(2,1041)	1:57:C:PHE:HE2	1:62:C:LYS:HE3	7	0.73
(2,972)	1:52:C:LYS:HD2	1:51:C:ASP:HB3	5	0.73
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	18	0.73
(2,727)	1:26:C:LYS:HG3	1:41:C:SER:HA	5	0.73
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	23	0.73
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	18	0.73
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	20	0.73
(2,189)	1:25:C:GLY:H	1:24:C:LYS:HD2	15	0.73
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	19	0.73
(2,104)	1:92:C:LYS:HD2	1:57:C:PHE:HZ	24	0.73
(2,14)	1:41:C:SER:HB2	1:26:C:LYS:HE2	2	0.73
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	14	0.73
(2,1226)	1:72:C:VAL:HG22	1:40:C:SER:HA	12	0.72
(2,900)	1:45:C:TYR:HE2	1:24:C:LYS:HE2	4	0.72
(2,900)	1:45:C:TYR:HE2	1:24:C:LYS:HE2	11	0.72
(2,734)	1:27:C:LEU:HD11	1:20:C:LEU:HG	13	0.72
(2,734)	1:27:C:LEU:HD12	1:20:C:LEU:HG	13	0.72
(2,734)	1:27:C:LEU:HD13	1:20:C:LEU:HG	13	0.72
(2,706)	1:25:C:GLY:HA2	1:26:C:LYS:HE2	3	0.72
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	18	0.72
(2,664)	1:72:C:VAL:HG23	1:20:C:LEU:HD12	19	0.72
(2,632)	1:19:C:LYS:HG3	1:16:C:VAL:HA	2	0.72
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	13	0.72
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	1	0.72
(2,104)	1:92:C:LYS:HD2	1:57:C:PHE:HZ	2	0.72
(2,1518)	1:94:C:ILE:HG12	1:53:C:ASN:HB3	15	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1424)	1:88:C:TYR:HA	1:87:C:PRO:HB3	19	0.71
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	22	0.71
(2,1162)	1:51:C:ASP:HB3	1:52:C:LYS:HA	9	0.71
(2,1041)	1:57:C:PHE:HE1	1:62:C:LYS:HE3	3	0.71
(2,934)	1:47:C:ILE:HB	1:48:C:SER:HB2	5	0.71
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	23	0.71
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	8	0.71
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	10	0.71
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	23	0.71
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	15	0.71
(2,117)	1:6:C:LEU:HD11	1:9:C:GLN:H	25	0.71
(2,1424)	1:88:C:TYR:HA	1:8:C:GLU:HG2	10	0.7
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	25	0.7
(2,689)	1:69:C:LYS:HG2	1:47:C:ILE:HB	15	0.7
(2,689)	1:69:C:LYS:HG2	1:47:C:ILE:HB	20	0.7
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	10	0.7
(2,330)	1:52:C:LYS:H	1:53:C:ASN:H	5	0.7
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	14	0.7
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	11	0.7
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	22	0.7
(2,117)	1:6:C:LEU:HD12	1:9:C:GLN:H	2	0.7
(2,16)	1:25:C:GLY:HA2	1:22:C:LYS:HE2	12	0.7
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	21	0.7
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	22	0.69
(2,1268)	1:75:C:ILE:HG12	1:71:C:THR:HA	16	0.69
(2,1162)	1:51:C:ASP:HB3	1:52:C:LYS:HA	15	0.69
(2,934)	1:47:C:ILE:HB	1:48:C:SER:HB2	8	0.69
(2,782)	1:36:C:LEU:HD23	1:29:C:LEU:HB2	4	0.69
(2,756)	1:27:C:LEU:HG	1:29:C:LEU:HA	13	0.69
(2,706)	1:25:C:GLY:HA2	1:26:C:LYS:HE2	8	0.69
(2,689)	1:22:C:LYS:HD2	1:47:C:ILE:HB	13	0.69
(2,664)	1:72:C:VAL:HG23	1:20:C:LEU:HD11	14	0.69
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	12	0.69
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	1	0.69
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	5	0.69
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	8	0.69
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	12	0.69
(2,61)	1:57:C:PHE:HZ	1:62:C:LYS:HD2	3	0.69
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	22	0.69
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	7	0.68
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	12	0.68
(2,1159)	1:67:C:ASN:HB3	1:70:C:SER:HA	25	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1155)	1:67:C:ASN:HB2	1:65:C:THR:HG21	4	0.68
(2,1155)	1:67:C:ASN:HB2	1:65:C:THR:HG22	4	0.68
(2,1155)	1:67:C:ASN:HB2	1:65:C:THR:HG23	4	0.68
(2,941)	1:47:C:ILE:HG12	1:48:C:SER:HB2	11	0.68
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	21	0.68
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	14	0.68
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	9	0.68
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	24	0.68
(2,367)	1:58:C:VAL:HG21	1:88:C:TYR:H	15	0.68
(2,367)	1:58:C:VAL:HG22	1:88:C:TYR:H	15	0.68
(2,367)	1:58:C:VAL:HG23	1:88:C:TYR:H	15	0.68
(2,329)	1:52:C:LYS:H	1:68:C:GLU:HB3	5	0.68
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	3	0.68
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	10	0.68
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	13	0.68
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	17	0.68
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	24	0.68
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	5	0.68
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	21	0.68
(2,1424)	1:88:C:TYR:HA	1:87:C:PRO:HB3	16	0.67
(2,1401)	1:85:C:LYS:HB2	1:34:C:ASN:HA	22	0.67
(2,1296)	1:76:C:SER:HB2	1:79:C:ILE:HB	12	0.67
(2,1204)	1:71:C:THR:HG21	1:44:C:GLY:HA2	8	0.67
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	6	0.67
(2,1079)	1:62:C:LYS:HB2	1:61:C:GLU:HG2	4	0.67
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG21	15	0.67
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG22	15	0.67
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG23	15	0.67
(2,973)	1:52:C:LYS:HD2	1:51:C:ASP:HB2	8	0.67
(2,959)	1:50:C:GLU:HA	1:69:C:LYS:HE2	20	0.67
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	13	0.67
(2,771)	1:27:C:LEU:HD21	1:75:C:ILE:HB	19	0.67
(2,771)	1:27:C:LEU:HD22	1:75:C:ILE:HB	19	0.67
(2,771)	1:27:C:LEU:HD23	1:75:C:ILE:HB	19	0.67
(2,609)	1:16:C:VAL:HG21	1:13:C:ILE:HB	19	0.67
(2,609)	1:16:C:VAL:HG22	1:13:C:ILE:HB	19	0.67
(2,609)	1:16:C:VAL:HG23	1:13:C:ILE:HB	19	0.67
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	19	0.67
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	21	0.67
(2,61)	1:57:C:PHE:HZ	1:62:C:LYS:HD2	5	0.67
(2,1424)	1:88:C:TYR:HA	1:87:C:PRO:HB3	15	0.66
(2,966)	1:51:C:ASP:HA	1:52:C:LYS:HD2	16	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,934)	1:47:C:ILE:HB	1:48:C:SER:HB2	25	0.66
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	5	0.66
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	15	0.66
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	5	0.66
(2,475)	1:77:C:ASN:HB2	1:80:C:ASN:HD21	16	0.66
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	14	0.66
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	16	0.66
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	10	0.66
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	14	0.66
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	3	0.66
(2,1226)	1:40:C:SER:HA	1:27:C:LEU:HB3	1	0.65
(2,1162)	1:51:C:ASP:HB3	1:52:C:LYS:HA	13	0.65
(2,1079)	1:62:C:LYS:HB2	1:61:C:GLU:HG2	3	0.65
(2,903)	1:45:C:TYR:HB2	1:24:C:LYS:HG2	3	0.65
(2,900)	1:45:C:TYR:HE2	1:24:C:LYS:HE2	6	0.65
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	15	0.65
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	11	0.65
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	3	0.65
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	14	0.65
(2,231)	1:32:C:ASN:HB3	1:35:C:GLN:H	19	0.65
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	15	0.65
(2,117)	1:6:C:LEU:HD13	1:9:C:GLN:H	22	0.65
(2,61)	1:57:C:PHE:HZ	1:62:C:LYS:HD2	8	0.65
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	17	0.64
(2,1226)	1:72:C:VAL:HG23	1:40:C:SER:HA	18	0.64
(2,1204)	1:71:C:THR:HG21	1:44:C:GLY:HA2	7	0.64
(2,1159)	1:67:C:ASN:HB3	1:70:C:SER:HA	10	0.64
(2,948)	1:50:C:GLU:HG2	1:48:C:SER:HB2	15	0.64
(2,903)	1:45:C:TYR:HB2	1:24:C:LYS:HG2	6	0.64
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	4	0.64
(2,632)	1:19:C:LYS:HG3	1:16:C:VAL:HA	21	0.64
(2,553)	1:92:C:LYS:HD2	1:92:C:LYS:H	8	0.64
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	6	0.64
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	17	0.64
(2,475)	1:77:C:ASN:HB2	1:80:C:ASN:HD21	4	0.64
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	11	0.64
(2,316)	1:51:C:ASP:H	1:50:C:GLU:HG3	15	0.64
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	16	0.64
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	4	0.64
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	6	0.64
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	9	0.64
(2,1162)	1:51:C:ASP:HB3	1:52:C:LYS:HA	6	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1061)	1:58:C:VAL:HG21	1:61:C:GLU:HG2	18	0.63
(2,1061)	1:58:C:VAL:HG22	1:61:C:GLU:HG2	18	0.63
(2,1061)	1:58:C:VAL:HG23	1:61:C:GLU:HG2	18	0.63
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG21	24	0.63
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG22	24	0.63
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG23	24	0.63
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	14	0.63
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD11	12	0.63
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD12	12	0.63
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD13	12	0.63
(2,560)	1:93:C:GLN:HG3	1:93:C:GLN:H	19	0.63
(2,475)	1:77:C:ASN:HB2	1:80:C:ASN:HD21	9	0.63
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	3	0.63
(2,356)	1:56:C:ILE:HG12	1:64:C:TYR:H	22	0.63
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	20	0.63
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	12	0.63
(2,1162)	1:51:C:ASP:HB3	1:52:C:LYS:HA	4	0.62
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	22	0.62
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	25	0.62
(2,959)	1:50:C:GLU:HA	1:69:C:LYS:HE2	9	0.62
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	2	0.62
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	21	0.62
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	9	0.62
(2,497)	1:81:C:LYS:HE3	1:81:C:LYS:H	1	0.62
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	4	0.62
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	19	0.62
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	20	0.62
(2,104)	1:92:C:LYS:HD2	1:57:C:PHE:HZ	11	0.62
(2,15)	1:25:C:GLY:HA2	1:22:C:LYS:HE3	9	0.62
(2,14)	1:41:C:SER:HB2	1:26:C:LYS:HE2	5	0.62
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	6	0.62
(2,1424)	1:88:C:TYR:HA	1:8:C:GLU:HG2	5	0.61
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	1	0.61
(2,1347)	1:80:C:ASN:HA	1:36:C:LEU:HB2	9	0.61
(2,1235)	1:52:C:LYS:HG3	1:68:C:GLU:HB3	7	0.61
(2,1226)	1:72:C:VAL:HG22	1:40:C:SER:HA	15	0.61
(2,1226)	1:40:C:SER:HA	1:27:C:LEU:HB3	17	0.61
(2,1159)	1:67:C:ASN:HB3	1:70:C:SER:HA	14	0.61
(2,959)	1:50:C:GLU:HA	1:69:C:LYS:HE2	10	0.61
(2,941)	1:47:C:ILE:HG12	1:48:C:SER:HB2	19	0.61
(2,632)	1:19:C:LYS:HG3	1:16:C:VAL:HA	18	0.61
(2,523)	1:85:C:LYS:H	1:85:C:LYS:HG3	6	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	13	0.61
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	8	0.61
(2,105)	1:2:C:ASN:H	1:2:C:ASN:HD21	23	0.61
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	3	0.61
(2,1467)	1:66:C:PHE:HE1	1:91:C:ILE:HD12	8	0.6
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	18	0.6
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	25	0.6
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	19	0.6
(2,966)	1:51:C:ASP:HA	1:52:C:LYS:HD2	3	0.6
(2,560)	1:93:C:GLN:HG3	1:93:C:GLN:H	14	0.6
(2,553)	1:92:C:LYS:HD2	1:92:C:LYS:H	21	0.6
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	13	0.6
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	5	0.6
(2,356)	1:56:C:ILE:HG12	1:64:C:TYR:H	1	0.6
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	24	0.6
(2,1268)	1:75:C:ILE:HG12	1:71:C:THR:HA	4	0.59
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	2	0.59
(2,875)	1:40:C:SER:HB3	1:26:C:LYS:HG3	1	0.59
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	1	0.59
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	12	0.59
(2,553)	1:92:C:LYS:HD2	1:92:C:LYS:H	16	0.59
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	6	0.59
(2,280)	1:42:C:ASN:HB3	1:26:C:LYS:H	20	0.59
(2,105)	1:2:C:ASN:H	1:3:C:GLN:HE21	1	0.59
(2,1467)	1:66:C:PHE:HE2	1:91:C:ILE:HD13	17	0.58
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	19	0.58
(2,882)	1:40:C:SER:HA	1:27:C:LEU:HB2	2	0.58
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD11	11	0.58
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD12	11	0.58
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD13	11	0.58
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	24	0.58
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	20	0.58
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	10	0.58
(2,329)	1:52:C:LYS:H	1:68:C:GLU:HB3	11	0.58
(2,280)	1:42:C:ASN:HB3	1:26:C:LYS:H	9	0.58
(2,189)	1:25:C:GLY:H	1:24:C:LYS:HD2	21	0.58
(2,1399)	1:58:C:VAL:HG21	1:86:C:GLY:HA3	11	0.57
(2,1268)	1:75:C:ILE:HG12	1:71:C:THR:HA	9	0.57
(2,1226)	1:40:C:SER:HA	1:27:C:LEU:HB3	21	0.57
(2,1220)	1:72:C:VAL:HG11	1:25:C:GLY:HA3	8	0.57
(2,1220)	1:72:C:VAL:HG12	1:25:C:GLY:HA3	8	0.57
(2,1220)	1:72:C:VAL:HG13	1:25:C:GLY:HA3	8	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	4	0.57
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	7	0.57
(2,553)	1:92:C:LYS:HD2	1:92:C:LYS:H	5	0.57
(2,497)	1:81:C:LYS:HE3	1:81:C:LYS:H	5	0.57
(2,497)	1:81:C:LYS:HE3	1:81:C:LYS:H	20	0.57
(2,329)	1:52:C:LYS:H	1:68:C:GLU:HB3	2	0.57
(2,207)	1:28:C:SER:HA	1:21:C:ASN:HD21	25	0.57
(2,189)	1:25:C:GLY:H	1:24:C:LYS:HD2	16	0.57
(2,117)	1:89:C:ILE:HG13	1:9:C:GLN:H	12	0.57
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	23	0.57
(2,1220)	1:72:C:VAL:HG11	1:25:C:GLY:HA3	12	0.56
(2,1220)	1:72:C:VAL:HG12	1:25:C:GLY:HA3	12	0.56
(2,1220)	1:72:C:VAL:HG13	1:25:C:GLY:HA3	12	0.56
(2,1204)	1:71:C:THR:HG23	1:44:C:GLY:HA2	15	0.56
(2,1204)	1:71:C:THR:HG21	1:44:C:GLY:HA2	19	0.56
(2,1162)	1:51:C:ASP:HB3	1:52:C:LYS:HA	8	0.56
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	19	0.56
(2,1020)	1:56:C:ILE:HG12	1:64:C:TYR:HB2	1	0.56
(2,1020)	1:56:C:ILE:HG12	1:64:C:TYR:HB2	5	0.56
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG21	9	0.56
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG22	9	0.56
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG23	9	0.56
(2,841)	1:37:C:LYS:HG2	1:36:C:LEU:HA	15	0.56
(2,818)	1:34:C:ASN:HD22	1:83:C:ASN:HA	22	0.56
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	7	0.56
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	4	0.56
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	19	0.56
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	17	0.56
(2,330)	1:53:C:ASN:HD21	1:53:C:ASN:H	8	0.56
(2,316)	1:51:C:ASP:H	1:50:C:GLU:HG3	8	0.56
(2,189)	1:25:C:GLY:H	1:24:C:LYS:HD2	7	0.56
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	17	0.56
(2,16)	1:25:C:GLY:HA2	1:22:C:LYS:HE2	11	0.56
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	9	0.56
(2,1441)	1:85:C:LYS:HG2	1:86:C:GLY:HA2	1	0.55
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	21	0.55
(2,1235)	1:52:C:LYS:HG3	1:68:C:GLU:HB3	5	0.55
(2,1230)	1:72:C:VAL:HG21	1:68:C:GLU:HA	19	0.55
(2,1230)	1:72:C:VAL:HG22	1:68:C:GLU:HA	19	0.55
(2,1230)	1:72:C:VAL:HG23	1:68:C:GLU:HA	19	0.55
(2,1226)	1:72:C:VAL:HG22	1:40:C:SER:HA	7	0.55
(2,1220)	1:72:C:VAL:HG11	1:25:C:GLY:HA3	18	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1220)	1:72:C:VAL:HG12	1:25:C:GLY:HA3	18	0.55
(2,1220)	1:72:C:VAL:HG13	1:25:C:GLY:HA3	18	0.55
(2,1197)	1:70:C:SER:HB3	1:67:C:ASN:HB3	14	0.55
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	17	0.55
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG21	5	0.55
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG22	5	0.55
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG23	5	0.55
(2,900)	1:45:C:TYR:HE1	1:24:C:LYS:HE2	13	0.55
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	20	0.55
(2,769)	1:27:C:LEU:HD21	1:72:C:VAL:HB	21	0.55
(2,769)	1:27:C:LEU:HD22	1:72:C:VAL:HB	21	0.55
(2,769)	1:27:C:LEU:HD23	1:72:C:VAL:HB	21	0.55
(2,756)	1:36:C:LEU:HD11	1:29:C:LEU:HA	1	0.55
(2,756)	1:36:C:LEU:HD12	1:29:C:LEU:HA	9	0.55
(2,635)	1:19:C:LYS:HA	1:19:C:LYS:HE2	10	0.55
(2,553)	1:92:C:LYS:HD2	1:92:C:LYS:H	22	0.55
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	9	0.55
(2,497)	1:81:C:LYS:HE3	1:81:C:LYS:H	10	0.55
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	5	0.55
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	18	0.55
(2,1424)	1:88:C:TYR:HA	1:87:C:PRO:HB3	22	0.54
(2,1358)	1:79:C:ILE:HA	1:84:C:ILE:HD13	8	0.54
(2,1327)	1:79:C:ILE:HD11	1:76:C:SER:HB2	3	0.54
(2,1327)	1:79:C:ILE:HD12	1:76:C:SER:HB2	3	0.54
(2,1327)	1:79:C:ILE:HD13	1:76:C:SER:HB2	3	0.54
(2,1226)	1:72:C:VAL:HG21	1:40:C:SER:HA	13	0.54
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	13	0.54
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	22	0.54
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	20	0.54
(2,941)	1:48:C:SER:HB2	1:24:C:LYS:HG2	25	0.54
(2,882)	1:40:C:SER:HA	1:26:C:LYS:HB3	11	0.54
(2,782)	1:36:C:LEU:HD23	1:29:C:LEU:HB2	12	0.54
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	19	0.54
(2,769)	1:27:C:LEU:HD21	1:72:C:VAL:HB	25	0.54
(2,769)	1:27:C:LEU:HD22	1:72:C:VAL:HB	25	0.54
(2,769)	1:27:C:LEU:HD23	1:72:C:VAL:HB	25	0.54
(2,663)	1:20:C:LEU:HD11	1:91:C:ILE:HG21	1	0.54
(2,663)	1:20:C:LEU:HD11	1:91:C:ILE:HG22	1	0.54
(2,663)	1:20:C:LEU:HD11	1:91:C:ILE:HG23	1	0.54
(2,663)	1:20:C:LEU:HD12	1:91:C:ILE:HG21	1	0.54
(2,663)	1:20:C:LEU:HD12	1:91:C:ILE:HG22	1	0.54
(2,663)	1:20:C:LEU:HD12	1:91:C:ILE:HG23	1	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,663)	1:20:C:LEU:HD13	1:91:C:ILE:HG21	1	0.54
(2,663)	1:20:C:LEU:HD13	1:91:C:ILE:HG22	1	0.54
(2,663)	1:20:C:LEU:HD13	1:91:C:ILE:HG23	1	0.54
(2,632)	1:19:C:LYS:HG3	1:16:C:VAL:HA	24	0.54
(2,632)	1:19:C:LYS:HG3	1:16:C:VAL:HA	25	0.54
(2,523)	1:85:C:LYS:H	1:85:C:LYS:HG3	1	0.54
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	14	0.54
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	23	0.54
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	18	0.54
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	10	0.54
(2,250)	1:37:C:LYS:HG2	1:30:C:SER:H	15	0.54
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	7	0.54
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	8	0.54
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	12	0.54
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	18	0.54
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	11	0.54
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	12	0.54
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	18	0.54
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	6	0.53
(2,1268)	1:75:C:ILE:HG12	1:71:C:THR:HA	6	0.53
(2,1220)	1:72:C:VAL:HG11	1:25:C:GLY:HA3	7	0.53
(2,1220)	1:72:C:VAL:HG12	1:25:C:GLY:HA3	7	0.53
(2,1220)	1:72:C:VAL:HG13	1:25:C:GLY:HA3	7	0.53
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	12	0.53
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	16	0.53
(2,553)	1:92:C:LYS:HD2	1:92:C:LYS:H	7	0.53
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	7	0.53
(2,330)	1:52:C:LYS:H	1:53:C:ASN:H	4	0.53
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	6	0.53
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	13	0.53
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	23	0.53
(2,31)	1:27:C:LEU:HD21	1:64:C:TYR:HD1	19	0.53
(2,31)	1:27:C:LEU:HD21	1:64:C:TYR:HD2	19	0.53
(2,31)	1:27:C:LEU:HD22	1:64:C:TYR:HD1	19	0.53
(2,31)	1:27:C:LEU:HD22	1:64:C:TYR:HD2	19	0.53
(2,31)	1:27:C:LEU:HD23	1:64:C:TYR:HD1	19	0.53
(2,31)	1:27:C:LEU:HD23	1:64:C:TYR:HD2	19	0.53
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	8	0.53
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	18	0.52
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	11	0.52
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	11	0.52
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	21	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	9	0.52
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	25	0.52
(2,934)	1:47:C:ILE:HB	1:48:C:SER:HB2	13	0.52
(2,671)	1:22:C:LYS:HE3	1:20:C:LEU:HA	14	0.52
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	13	0.52
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	7	0.52
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	25	0.52
(2,189)	1:25:C:GLY:H	1:24:C:LYS:HD2	1	0.52
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	10	0.52
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	23	0.52
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	6	0.51
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	6	0.51
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	6	0.51
(2,1235)	1:52:C:LYS:HG3	1:68:C:GLU:HB3	11	0.51
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	8	0.51
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	18	0.51
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG21	20	0.51
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG22	20	0.51
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG23	20	0.51
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	21	0.51
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	19	0.51
(2,706)	1:25:C:GLY:HA2	1:26:C:LYS:HE2	9	0.51
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	2	0.51
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	8	0.51
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	12	0.51
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	21	0.51
(2,330)	1:53:C:ASN:HD21	1:53:C:ASN:H	6	0.51
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	22	0.51
(2,19)	1:54:C:TRP:HD1	1:52:C:LYS:HB2	8	0.51
(2,16)	1:25:C:GLY:HA2	1:22:C:LYS:HE2	22	0.51
(2,1358)	1:79:C:ILE:HA	1:84:C:ILE:HD12	17	0.5
(2,1159)	1:67:C:ASN:HB3	1:70:C:SER:HA	19	0.5
(2,1020)	1:56:C:ILE:HG12	1:64:C:TYR:HB2	23	0.5
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	3	0.5
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	24	0.5
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	4	0.5
(2,883)	1:28:C:SER:HB2	1:39:C:THR:HA	19	0.5
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	8	0.5
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	20	0.5
(2,280)	1:42:C:ASN:HB3	1:26:C:LYS:H	3	0.5
(2,280)	1:42:C:ASN:HB3	1:26:C:LYS:H	19	0.5
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	7	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1522)	1:94:C:ILE:HG12	1:53:C:ASN:HB2	8	0.49
(2,1196)	1:75:C:ILE:HG13	1:70:C:SER:HA	25	0.49
(2,1020)	1:56:C:ILE:HG12	1:64:C:TYR:HB2	9	0.49
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	18	0.49
(2,882)	1:40:C:SER:HA	1:26:C:LYS:HB3	4	0.49
(2,761)	1:27:C:LEU:HD21	1:38:C:ALA:HA	22	0.49
(2,761)	1:27:C:LEU:HD22	1:38:C:ALA:HA	22	0.49
(2,761)	1:27:C:LEU:HD23	1:38:C:ALA:HA	22	0.49
(2,740)	1:27:C:LEU:HG	1:27:C:LEU:HA	22	0.49
(2,367)	1:58:C:VAL:HG21	1:88:C:TYR:H	11	0.49
(2,367)	1:58:C:VAL:HG22	1:88:C:TYR:H	11	0.49
(2,367)	1:58:C:VAL:HG23	1:88:C:TYR:H	11	0.49
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	18	0.49
(2,187)	1:24:C:LYS:HD2	1:24:C:LYS:H	6	0.49
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	1	0.49
(2,61)	1:57:C:PHE:HZ	1:62:C:LYS:HD2	7	0.49
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	8	0.48
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	8	0.48
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	8	0.48
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	13	0.48
(2,1216)	1:71:C:THR:HA	1:46:C:GLY:HA2	23	0.48
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	14	0.48
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	3	0.48
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	1	0.48
(2,756)	1:36:C:LEU:HD11	1:29:C:LEU:HA	19	0.48
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	23	0.48
(2,497)	1:81:C:LYS:HE3	1:81:C:LYS:H	3	0.48
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	1	0.48
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	2	0.48
(2,475)	1:77:C:ASN:HB2	1:80:C:ASN:HD21	6	0.48
(2,329)	1:52:C:LYS:H	1:68:C:GLU:HB3	10	0.48
(2,317)	1:49:C:TYR:HB3	1:50:C:GLU:H	23	0.48
(2,104)	1:92:C:LYS:HD2	1:57:C:PHE:HZ	3	0.48
(2,30)	1:27:C:LEU:HD22	1:64:C:TYR:HE2	15	0.48
(2,16)	1:25:C:GLY:HA2	1:22:C:LYS:HE2	24	0.48
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	4	0.47
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	4	0.47
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	4	0.47
(2,1467)	1:66:C:PHE:HE2	1:91:C:ILE:HD11	4	0.47
(2,1467)	1:66:C:PHE:HE2	1:91:C:ILE:HD13	10	0.47
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	10	0.47
(2,904)	1:45:C:TYR:HB2	1:25:C:GLY:HA3	5	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,880)	1:40:C:SER:HB2	1:27:C:LEU:HA	10	0.47
(2,664)	1:72:C:VAL:HG22	1:20:C:LEU:HD12	4	0.47
(2,356)	1:56:C:ILE:HG12	1:64:C:TYR:H	20	0.47
(2,316)	1:51:C:ASP:H	1:50:C:GLU:HG3	17	0.47
(2,250)	1:37:C:LYS:HG2	1:30:C:SER:H	22	0.47
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	8	0.47
(2,1467)	1:66:C:PHE:HE2	1:91:C:ILE:HD13	11	0.46
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	15	0.46
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	9	0.46
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	1	0.46
(2,934)	1:47:C:ILE:HB	1:48:C:SER:HB2	18	0.46
(2,882)	1:40:C:SER:HA	1:26:C:LYS:HB3	9	0.46
(2,804)	1:13:C:ILE:HD11	1:30:C:SER:HA	3	0.46
(2,727)	1:26:C:LYS:HG3	1:41:C:SER:HA	1	0.46
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	10	0.46
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	14	0.46
(2,635)	1:19:C:LYS:HA	1:19:C:LYS:HE2	22	0.46
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	7	0.46
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	24	0.46
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	25	0.46
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	19	0.46
(2,231)	1:32:C:ASN:HB3	1:35:C:GLN:H	8	0.46
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	3	0.46
(2,1539)	1:94:C:ILE:HA	1:93:C:GLN:HB2	14	0.45
(2,1522)	1:94:C:ILE:HG12	1:53:C:ASN:HB2	6	0.45
(2,1467)	1:66:C:PHE:HE2	1:91:C:ILE:HD11	23	0.45
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	2	0.45
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	15	0.45
(2,1197)	1:70:C:SER:HB3	1:67:C:ASN:HB3	15	0.45
(2,1166)	1:68:C:GLU:HB3	1:52:C:LYS:HB3	1	0.45
(2,903)	1:45:C:TYR:HB2	1:24:C:LYS:HG2	25	0.45
(2,882)	1:40:C:SER:HA	1:27:C:LEU:HB2	10	0.45
(2,770)	1:27:C:LEU:HD21	1:72:C:VAL:HA	19	0.45
(2,770)	1:27:C:LEU:HD22	1:72:C:VAL:HA	19	0.45
(2,770)	1:27:C:LEU:HD23	1:72:C:VAL:HA	19	0.45
(2,756)	1:36:C:LEU:HD11	1:29:C:LEU:HA	24	0.45
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	4	0.45
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	25	0.45
(2,316)	1:51:C:ASP:H	1:50:C:GLU:HG3	5	0.45
(2,273)	1:40:C:SER:H	1:39:C:THR:HG1	22	0.45
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	2	0.45
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	18	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1533)	1:94:C:ILE:HG21	1:55:C:GLY:HA2	19	0.44
(2,1533)	1:94:C:ILE:HG22	1:55:C:GLY:HA2	19	0.44
(2,1533)	1:94:C:ILE:HG23	1:55:C:GLY:HA2	19	0.44
(2,1467)	1:66:C:PHE:HE1	1:91:C:ILE:HD12	3	0.44
(2,1467)	1:66:C:PHE:HE1	1:91:C:ILE:HD11	14	0.44
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	20	0.44
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	3	0.44
(2,1226)	1:40:C:SER:HA	1:27:C:LEU:HB3	5	0.44
(2,1204)	1:71:C:THR:HG21	1:44:C:GLY:HA2	11	0.44
(2,1197)	1:70:C:SER:HB3	1:67:C:ASN:HB3	22	0.44
(2,1061)	1:58:C:VAL:HG21	1:61:C:GLU:HG2	3	0.44
(2,1061)	1:58:C:VAL:HG22	1:61:C:GLU:HG2	3	0.44
(2,1061)	1:58:C:VAL:HG23	1:61:C:GLU:HG2	3	0.44
(2,1041)	1:57:C:PHE:HE2	1:62:C:LYS:HE3	10	0.44
(2,941)	1:47:C:ILE:HG12	1:48:C:SER:HB2	16	0.44
(2,882)	1:40:C:SER:HA	1:27:C:LEU:HB2	23	0.44
(2,880)	1:40:C:SER:HB2	1:27:C:LEU:HA	18	0.44
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	5	0.44
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	22	0.44
(2,497)	1:81:C:LYS:HE3	1:81:C:LYS:H	18	0.44
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	12	0.44
(2,316)	1:51:C:ASP:H	1:50:C:GLU:HG3	1	0.44
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	3	0.44
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	8	0.44
(2,1467)	1:66:C:PHE:HE1	1:91:C:ILE:HD12	15	0.43
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	15	0.43
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	19	0.43
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	22	0.43
(2,1268)	1:75:C:ILE:HG12	1:71:C:THR:HA	24	0.43
(2,1207)	1:71:C:THR:HB	1:44:C:GLY:HA2	18	0.43
(2,1166)	1:68:C:GLU:HB3	1:52:C:LYS:HB3	23	0.43
(2,882)	1:40:C:SER:HA	1:26:C:LYS:HB3	20	0.43
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	19	0.43
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	3	0.43
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	20	0.43
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	18	0.43
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	16	0.43
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	2	0.43
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	3	0.43
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	24	0.43
(2,61)	1:57:C:PHE:HZ	1:62:C:LYS:HD2	13	0.43
(2,14)	1:41:C:SER:HB2	1:26:C:LYS:HE2	1	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	8	0.42
(2,1243)	1:72:C:VAL:HG11	1:73:C:GLY:HA2	19	0.42
(2,1243)	1:72:C:VAL:HG12	1:73:C:GLY:HA2	19	0.42
(2,1243)	1:72:C:VAL:HG13	1:73:C:GLY:HA2	19	0.42
(2,1178)	1:24:C:LYS:HB3	1:47:C:ILE:HA	22	0.42
(2,1166)	1:68:C:GLU:HB3	1:52:C:LYS:HB3	14	0.42
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	13	0.42
(2,1041)	1:57:C:PHE:HE2	1:62:C:LYS:HE3	14	0.42
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	16	0.42
(2,882)	1:40:C:SER:HA	1:27:C:LEU:HB2	24	0.42
(2,880)	1:40:C:SER:HB2	1:27:C:LEU:HA	4	0.42
(2,841)	1:37:C:LYS:HG2	1:36:C:LEU:HA	11	0.42
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	10	0.42
(2,690)	1:22:C:LYS:HE3	1:48:C:SER:HB2	18	0.42
(2,659)	1:20:C:LEU:HD11	1:22:C:LYS:HE3	14	0.42
(2,659)	1:20:C:LEU:HD12	1:22:C:LYS:HE3	14	0.42
(2,659)	1:20:C:LEU:HD13	1:22:C:LYS:HE3	14	0.42
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	16	0.42
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	16	0.42
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	2	0.42
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	22	0.42
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	9	0.42
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	14	0.42
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	15	0.42
(2,326)	1:52:C:LYS:HG2	1:53:C:ASN:H	25	0.42
(2,317)	1:51:C:ASP:HB3	1:50:C:GLU:H	17	0.42
(2,316)	1:51:C:ASP:H	1:50:C:GLU:HG3	14	0.42
(2,124)	1:9:C:GLN:HG2	1:31:C:MET:H	6	0.42
(2,117)	1:6:C:LEU:HD13	1:9:C:GLN:H	21	0.42
(2,105)	1:2:C:ASN:H	1:3:C:GLN:HE21	17	0.42
(2,15)	1:25:C:GLY:HA2	1:22:C:LYS:HE3	4	0.42
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	2	0.41
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	4	0.41
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	9	0.41
(2,1205)	1:71:C:THR:HG21	1:44:C:GLY:HA3	19	0.41
(2,1204)	1:71:C:THR:HG23	1:44:C:GLY:HA2	18	0.41
(2,1079)	1:62:C:LYS:HB2	1:61:C:GLU:HG2	24	0.41
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	17	0.41
(2,934)	1:47:C:ILE:HB	1:48:C:SER:HB2	24	0.41
(2,882)	1:40:C:SER:HA	1:26:C:LYS:HB3	6	0.41
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	12	0.41
(2,756)	1:36:C:LEU:HD13	1:29:C:LEU:HA	10	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	11	0.41
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	16	0.41
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	3	0.41
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	24	0.41
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	10	0.41
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	10	0.41
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	12	0.41
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	12	0.41
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	20	0.41
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	20	0.41
(2,19)	1:54:C:TRP:HD1	1:52:C:LYS:HB2	6	0.41
(2,1522)	1:94:C:ILE:HG12	1:53:C:ASN:HB2	11	0.4
(2,1467)	1:66:C:PHE:HE1	1:91:C:ILE:HD12	1	0.4
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	24	0.4
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	18	0.4
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	14	0.4
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	24	0.4
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	20	0.4
(2,1226)	1:72:C:VAL:HG22	1:40:C:SER:HA	8	0.4
(2,1204)	1:71:C:THR:HG21	1:44:C:GLY:HA2	12	0.4
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	7	0.4
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG11	24	0.4
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG12	24	0.4
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG13	24	0.4
(2,635)	1:19:C:LYS:HA	1:19:C:LYS:HE2	24	0.4
(2,390)	1:94:C:ILE:HG22	1:55:C:GLY:H	5	0.4
(2,316)	1:51:C:ASP:H	1:50:C:GLU:HG3	11	0.4
(2,316)	1:51:C:ASP:H	1:50:C:GLU:HG3	21	0.4
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	19	0.4
(2,187)	1:24:C:LYS:HD2	1:24:C:LYS:H	25	0.4
(2,124)	1:9:C:GLN:HG2	1:31:C:MET:H	22	0.4
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	23	0.4
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	25	0.4
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	25	0.4
(2,14)	1:41:C:SER:HB2	1:26:C:LYS:HE2	6	0.4
(2,12)	1:41:C:SER:H	1:26:C:LYS:HB2	13	0.4
(2,1539)	1:94:C:ILE:HA	1:93:C:GLN:HB2	19	0.39
(2,1467)	1:66:C:PHE:HE2	1:91:C:ILE:HD11	21	0.39
(2,1467)	1:66:C:PHE:HE1	1:91:C:ILE:HD11	24	0.39
(2,1424)	1:88:C:TYR:HA	1:8:C:GLU:HG2	14	0.39
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	13	0.39
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	17	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1226)	1:72:C:VAL:HG22	1:40:C:SER:HA	25	0.39
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	16	0.39
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	19	0.39
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	3	0.39
(2,904)	1:45:C:TYR:HB2	1:25:C:GLY:HA3	13	0.39
(2,880)	1:40:C:SER:HB2	1:27:C:LEU:HA	19	0.39
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD11	8	0.39
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD12	8	0.39
(2,842)	1:37:C:LYS:HG2	1:36:C:LEU:HD13	8	0.39
(2,841)	1:37:C:LYS:HG2	1:36:C:LEU:HA	12	0.39
(2,756)	1:36:C:LEU:HD11	1:29:C:LEU:HA	17	0.39
(2,670)	1:22:C:LYS:HG2	1:19:C:LYS:HA	25	0.39
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	8	0.39
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	11	0.39
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	4	0.39
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	2	0.39
(2,316)	1:51:C:ASP:H	1:50:C:GLU:HG3	16	0.39
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	6	0.39
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	15	0.39
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	17	0.39
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	23	0.39
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	15	0.39
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	15	0.39
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	23	0.39
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	23	0.39
(2,1467)	1:66:C:PHE:HE1	1:91:C:ILE:HD13	6	0.38
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	2	0.38
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	3	0.38
(2,1166)	1:68:C:GLU:HB3	1:52:C:LYS:HB3	19	0.38
(2,1061)	1:58:C:VAL:HG21	1:61:C:GLU:HG2	12	0.38
(2,1061)	1:58:C:VAL:HG22	1:61:C:GLU:HG2	12	0.38
(2,1061)	1:58:C:VAL:HG23	1:61:C:GLU:HG2	12	0.38
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	11	0.38
(2,900)	1:45:C:TYR:HE2	1:24:C:LYS:HE2	2	0.38
(2,819)	1:35:C:GLN:HB2	1:32:C:ASN:HB3	25	0.38
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	15	0.38
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	2	0.38
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	21	0.38
(2,491)	1:80:C:ASN:HD21	1:76:C:SER:HB3	4	0.38
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	3	0.38
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	13	0.38
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	21	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,470)	1:77:C:ASN:HD21	1:37:C:LYS:HA	21	0.38
(2,470)	1:77:C:ASN:HD21	1:37:C:LYS:HA	24	0.38
(2,377)	1:62:C:LYS:HG2	1:62:C:LYS:H	5	0.38
(2,330)	1:53:C:ASN:HD21	1:53:C:ASN:H	15	0.38
(2,329)	1:52:C:LYS:H	1:68:C:GLU:HB3	14	0.38
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	5	0.38
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	17	0.38
(2,105)	1:2:C:ASN:H	1:3:C:GLN:HE21	24	0.38
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	6	0.38
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	6	0.38
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	16	0.38
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	16	0.38
(2,27)	1:20:C:LEU:HD11	1:54:C:TRP:HE3	22	0.38
(2,27)	1:20:C:LEU:HD12	1:54:C:TRP:HE3	22	0.38
(2,27)	1:20:C:LEU:HD13	1:54:C:TRP:HE3	22	0.38
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	3	0.37
(2,1467)	1:66:C:PHE:HE2	1:91:C:ILE:HD12	25	0.37
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	14	0.37
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	16	0.37
(2,1347)	1:80:C:ASN:HA	1:36:C:LEU:HB2	1	0.37
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	15	0.37
(2,1159)	1:67:C:ASN:HB3	1:70:C:SER:HA	22	0.37
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	23	0.37
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG11	1	0.37
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG12	1	0.37
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG13	1	0.37
(2,1020)	1:56:C:ILE:HG12	1:64:C:TYR:HB2	17	0.37
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG21	1	0.37
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG22	1	0.37
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG23	1	0.37
(2,959)	1:50:C:GLU:HA	1:69:C:LYS:HE2	21	0.37
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	5	0.37
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	11	0.37
(2,921)	1:47:C:ILE:HG21	1:22:C:LYS:HE3	23	0.37
(2,921)	1:47:C:ILE:HG22	1:22:C:LYS:HE3	23	0.37
(2,921)	1:47:C:ILE:HG23	1:22:C:LYS:HE3	23	0.37
(2,670)	1:22:C:LYS:HG3	1:19:C:LYS:HA	2	0.37
(2,670)	1:22:C:LYS:HG2	1:19:C:LYS:HA	6	0.37
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	14	0.37
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	17	0.37
(2,475)	1:77:C:ASN:HB2	1:80:C:ASN:HD21	3	0.37
(2,475)	1:77:C:ASN:HB2	1:80:C:ASN:HD21	14	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,470)	1:77:C:ASN:HD21	1:37:C:LYS:HA	20	0.37
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	25	0.37
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	17	0.37
(2,280)	1:42:C:ASN:HB3	1:26:C:LYS:H	13	0.37
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	21	0.37
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	14	0.37
(2,105)	1:2:C:ASN:H	1:3:C:GLN:HE21	18	0.37
(2,1533)	1:94:C:ILE:HG21	1:55:C:GLY:HA2	4	0.36
(2,1533)	1:94:C:ILE:HG22	1:55:C:GLY:HA2	4	0.36
(2,1533)	1:94:C:ILE:HG23	1:55:C:GLY:HA2	4	0.36
(2,1526)	1:94:C:ILE:HD11	1:53:C:ASN:HD22	19	0.36
(2,1526)	1:94:C:ILE:HD12	1:53:C:ASN:HD22	19	0.36
(2,1526)	1:94:C:ILE:HD13	1:53:C:ASN:HD22	19	0.36
(2,1467)	1:66:C:PHE:HE1	1:91:C:ILE:HD13	5	0.36
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	5	0.36
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	6	0.36
(2,1347)	1:80:C:ASN:HA	1:36:C:LEU:HB2	20	0.36
(2,1347)	1:80:C:ASN:HA	1:36:C:LEU:HB2	24	0.36
(2,1235)	1:52:C:LYS:HG3	1:68:C:GLU:HB3	16	0.36
(2,1226)	1:40:C:SER:HA	1:27:C:LEU:HB3	11	0.36
(2,1220)	1:72:C:VAL:HG11	1:25:C:GLY:HA3	3	0.36
(2,1220)	1:72:C:VAL:HG12	1:25:C:GLY:HA3	3	0.36
(2,1220)	1:72:C:VAL:HG13	1:25:C:GLY:HA3	3	0.36
(2,1197)	1:70:C:SER:HB3	1:67:C:ASN:HB3	13	0.36
(2,1197)	1:70:C:SER:HB3	1:67:C:ASN:HB3	19	0.36
(2,904)	1:45:C:TYR:HB2	1:25:C:GLY:HA3	8	0.36
(2,782)	1:36:C:LEU:HD22	1:29:C:LEU:HB2	2	0.36
(2,671)	1:22:C:LYS:HE3	1:20:C:LEU:HA	23	0.36
(2,475)	1:77:C:ASN:HB2	1:80:C:ASN:HD21	17	0.36
(2,475)	1:77:C:ASN:HB2	1:80:C:ASN:HD21	19	0.36
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	8	0.36
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	2	0.36
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	12	0.36
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	1	0.36
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	7	0.36
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	11	0.36
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	18	0.36
(2,18)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	3	0.36
(2,14)	1:41:C:SER:HB2	1:26:C:LYS:HE2	25	0.36
(2,1533)	1:94:C:ILE:HG21	1:55:C:GLY:HA2	13	0.35
(2,1533)	1:94:C:ILE:HG22	1:55:C:GLY:HA2	13	0.35
(2,1533)	1:94:C:ILE:HG23	1:55:C:GLY:HA2	13	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1521)	1:93:C:GLN:HB3	1:53:C:ASN:HB2	13	0.35
(2,1521)	1:93:C:GLN:HB3	1:53:C:ASN:HB2	18	0.35
(2,1399)	1:84:C:ILE:HG12	1:86:C:GLY:HA3	25	0.35
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	12	0.35
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	20	0.35
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	23	0.35
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	16	0.35
(2,1159)	1:67:C:ASN:HB3	1:70:C:SER:HA	15	0.35
(2,1041)	1:57:C:PHE:HE1	1:62:C:LYS:HE3	21	0.35
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	17	0.35
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	9	0.35
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	8	0.35
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	15	0.35
(2,941)	1:48:C:SER:HB2	1:24:C:LYS:HG2	3	0.35
(2,883)	1:28:C:SER:HB2	1:39:C:THR:HA	10	0.35
(2,632)	1:19:C:LYS:HG3	1:16:C:VAL:HA	11	0.35
(2,588)	1:13:C:ILE:HG12	1:12:C:SER:HB2	23	0.35
(2,553)	1:92:C:LYS:HD2	1:92:C:LYS:H	12	0.35
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	5	0.35
(2,475)	1:77:C:ASN:HB2	1:80:C:ASN:HD21	15	0.35
(2,475)	1:77:C:ASN:HB2	1:80:C:ASN:HD21	18	0.35
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	19	0.35
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	20	0.35
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	4	0.35
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	10	0.35
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	12	0.35
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	15	0.35
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	19	0.35
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	22	0.35
(2,15)	1:25:C:GLY:HA2	1:22:C:LYS:HE3	13	0.35
(2,1533)	1:94:C:ILE:HG21	1:55:C:GLY:HA2	14	0.34
(2,1533)	1:94:C:ILE:HG22	1:55:C:GLY:HA2	14	0.34
(2,1533)	1:94:C:ILE:HG23	1:55:C:GLY:HA2	14	0.34
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	10	0.34
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	24	0.34
(2,1347)	1:80:C:ASN:HA	1:36:C:LEU:HB2	13	0.34
(2,1347)	1:80:C:ASN:HA	1:36:C:LEU:HB2	18	0.34
(2,1235)	1:52:C:LYS:HG3	1:68:C:GLU:HB3	14	0.34
(2,1231)	1:72:C:VAL:HG11	1:68:C:GLU:HG3	14	0.34
(2,1231)	1:72:C:VAL:HG12	1:68:C:GLU:HG3	14	0.34
(2,1231)	1:72:C:VAL:HG13	1:68:C:GLU:HG3	14	0.34
(2,1204)	1:71:C:THR:HG22	1:44:C:GLY:HA2	2	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	2	0.34
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG21	21	0.34
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG22	21	0.34
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG23	21	0.34
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	7	0.34
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG21	21	0.34
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG22	21	0.34
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG23	21	0.34
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	20	0.34
(2,941)	1:47:C:ILE:HG12	1:48:C:SER:HB2	14	0.34
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	3	0.34
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	7	0.34
(2,664)	1:20:C:LEU:HD11	1:93:C:GLN:HG2	9	0.34
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	16	0.34
(2,475)	1:77:C:ASN:HB2	1:80:C:ASN:HD21	5	0.34
(2,470)	1:77:C:ASN:HD21	1:37:C:LYS:HA	11	0.34
(2,470)	1:77:C:ASN:HD21	1:37:C:LYS:HA	22	0.34
(2,280)	1:42:C:ASN:HB3	1:26:C:LYS:H	15	0.34
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	9	0.34
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	25	0.34
(2,250)	1:37:C:LYS:HG2	1:30:C:SER:H	1	0.34
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	9	0.34
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	24	0.34
(2,16)	1:25:C:GLY:HA2	1:22:C:LYS:HE2	19	0.34
(2,1533)	1:94:C:ILE:HG21	1:55:C:GLY:HA2	18	0.33
(2,1533)	1:94:C:ILE:HG22	1:55:C:GLY:HA2	18	0.33
(2,1533)	1:94:C:ILE:HG23	1:55:C:GLY:HA2	18	0.33
(2,1515)	1:93:C:GLN:HG3	1:93:C:GLN:HE21	19	0.33
(2,1443)	1:89:C:ILE:HD11	1:86:C:GLY:HA2	2	0.33
(2,1443)	1:89:C:ILE:HD12	1:86:C:GLY:HA2	2	0.33
(2,1443)	1:89:C:ILE:HD13	1:86:C:GLY:HA2	2	0.33
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	7	0.33
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	8	0.33
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	25	0.33
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	12	0.33
(2,1160)	1:68:C:GLU:HB3	1:47:C:ILE:HB	13	0.33
(2,1128)	1:66:C:PHE:HZ	1:29:C:LEU:HD21	1	0.33
(2,1128)	1:66:C:PHE:HZ	1:29:C:LEU:HD22	1	0.33
(2,1128)	1:66:C:PHE:HZ	1:29:C:LEU:HD23	1	0.33
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	6	0.33
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	24	0.33
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	14	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,939)	1:48:C:SER:HA	1:24:C:LYS:HD3	6	0.33
(2,816)	1:32:C:ASN:HB2	1:35:C:GLN:HB2	17	0.33
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	16	0.33
(2,756)	1:36:C:LEU:HD12	1:29:C:LEU:HA	23	0.33
(2,670)	1:22:C:LYS:HG2	1:19:C:LYS:HA	13	0.33
(2,659)	1:20:C:LEU:HD11	1:22:C:LYS:HE3	19	0.33
(2,659)	1:20:C:LEU:HD12	1:22:C:LYS:HE3	19	0.33
(2,659)	1:20:C:LEU:HD13	1:22:C:LYS:HE3	19	0.33
(2,516)	1:84:C:ILE:HB	1:35:C:GLN:H	18	0.33
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	10	0.33
(2,475)	1:77:C:ASN:HB2	1:80:C:ASN:HD21	2	0.33
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	20	0.33
(2,326)	1:52:C:LYS:HG2	1:53:C:ASN:H	2	0.33
(2,301)	1:48:C:SER:H	1:46:C:GLY:HA3	23	0.33
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	4	0.33
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	14	0.33
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	23	0.33
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	5	0.33
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	16	0.33
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	17	0.33
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	20	0.33
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	21	0.33
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	23	0.33
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	25	0.33
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	17	0.33
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	17	0.33
(2,18)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	5	0.33
(2,18)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	8	0.33
(2,7)	1:29:C:LEU:HD21	1:17:C:ASN:HA	19	0.33
(2,7)	1:29:C:LEU:HD22	1:17:C:ASN:HA	19	0.33
(2,7)	1:29:C:LEU:HD23	1:17:C:ASN:HA	19	0.33
(2,7)	1:29:C:LEU:HD21	1:17:C:ASN:HA	23	0.33
(2,7)	1:29:C:LEU:HD22	1:17:C:ASN:HA	23	0.33
(2,7)	1:29:C:LEU:HD23	1:17:C:ASN:HA	23	0.33
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	10	0.32
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	4	0.32
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	14	0.32
(2,1387)	1:58:C:VAL:HG13	1:89:C:ILE:HG12	10	0.32
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	21	0.32
(2,1220)	1:72:C:VAL:HG11	1:25:C:GLY:HA3	10	0.32
(2,1220)	1:72:C:VAL:HG12	1:25:C:GLY:HA3	10	0.32
(2,1220)	1:72:C:VAL:HG13	1:25:C:GLY:HA3	10	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1160)	1:68:C:GLU:HB3	1:47:C:ILE:HB	24	0.32
(2,958)	1:50:C:GLU:HB2	1:52:C:LYS:HG2	4	0.32
(2,958)	1:50:C:GLU:HB2	1:52:C:LYS:HG2	7	0.32
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	10	0.32
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	19	0.32
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	4	0.32
(2,904)	1:45:C:TYR:HB2	1:25:C:GLY:HA3	23	0.32
(2,841)	1:37:C:LYS:HG2	1:36:C:LEU:HA	13	0.32
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	9	0.32
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	7	0.32
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	1	0.32
(2,187)	1:24:C:LYS:HD2	1:24:C:LYS:H	4	0.32
(2,187)	1:24:C:LYS:HD2	1:24:C:LYS:H	7	0.32
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	8	0.32
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	13	0.32
(2,59)	1:57:C:PHE:HD1	1:62:C:LYS:HB2	11	0.32
(2,59)	1:57:C:PHE:HD2	1:62:C:LYS:HB2	11	0.32
(2,30)	1:27:C:LEU:HD23	1:64:C:TYR:HE1	3	0.32
(2,18)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	25	0.32
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	11	0.32
(2,1533)	1:94:C:ILE:HG21	1:55:C:GLY:HA2	9	0.31
(2,1533)	1:94:C:ILE:HG22	1:55:C:GLY:HA2	9	0.31
(2,1533)	1:94:C:ILE:HG23	1:55:C:GLY:HA2	9	0.31
(2,1533)	1:94:C:ILE:HG21	1:55:C:GLY:HA2	22	0.31
(2,1533)	1:94:C:ILE:HG22	1:55:C:GLY:HA2	22	0.31
(2,1533)	1:94:C:ILE:HG23	1:55:C:GLY:HA2	22	0.31
(2,1467)	1:66:C:PHE:HE1	1:91:C:ILE:HD13	19	0.31
(2,1443)	1:89:C:ILE:HD11	1:86:C:GLY:HA2	15	0.31
(2,1443)	1:89:C:ILE:HD12	1:86:C:GLY:HA2	15	0.31
(2,1443)	1:89:C:ILE:HD13	1:86:C:GLY:HA2	15	0.31
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	1	0.31
(2,1231)	1:72:C:VAL:HG11	1:68:C:GLU:HG3	5	0.31
(2,1231)	1:72:C:VAL:HG12	1:68:C:GLU:HG3	5	0.31
(2,1231)	1:72:C:VAL:HG13	1:68:C:GLU:HG3	5	0.31
(2,1231)	1:72:C:VAL:HG11	1:68:C:GLU:HG3	11	0.31
(2,1231)	1:72:C:VAL:HG12	1:68:C:GLU:HG3	11	0.31
(2,1231)	1:72:C:VAL:HG13	1:68:C:GLU:HG3	11	0.31
(2,1105)	1:63:C:VAL:HB	1:63:C:VAL:HA	1	0.31
(2,1105)	1:63:C:VAL:HB	1:63:C:VAL:HA	8	0.31
(2,1105)	1:63:C:VAL:HB	1:63:C:VAL:HA	20	0.31
(2,1104)	1:63:C:VAL:HG11	1:58:C:VAL:HB	19	0.31
(2,1104)	1:63:C:VAL:HG12	1:58:C:VAL:HB	19	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1104)	1:63:C:VAL:HG13	1:58:C:VAL:HB	19	0.31
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	3	0.31
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG11	8	0.31
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG12	8	0.31
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG13	8	0.31
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	5	0.31
(2,970)	1:51:C:ASP:HA	1:69:C:LYS:HG3	24	0.31
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	2	0.31
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	23	0.31
(2,958)	1:50:C:GLU:HB2	1:52:C:LYS:HG2	18	0.31
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	16	0.31
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	1	0.31
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	2	0.31
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	12	0.31
(2,632)	1:19:C:LYS:HG3	1:16:C:VAL:HA	20	0.31
(2,630)	1:19:C:LYS:HD3	1:16:C:VAL:HA	7	0.31
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	4	0.31
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	9	0.31
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	23	0.31
(2,475)	1:77:C:ASN:HB2	1:80:C:ASN:HD21	25	0.31
(2,470)	1:77:C:ASN:HD21	1:37:C:LYS:HA	1	0.31
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	2	0.31
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	3	0.31
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	8	0.31
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	10	0.31
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	22	0.31
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	23	0.31
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	24	0.31
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	11	0.31
(2,231)	1:32:C:ASN:HB3	1:35:C:GLN:H	25	0.31
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	6	0.31
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	16	0.31
(2,105)	1:2:C:ASN:H	1:2:C:ASN:HD21	9	0.31
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	14	0.31
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	14	0.31
(2,18)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	6	0.31
(2,7)	1:29:C:LEU:HD21	1:17:C:ASN:HA	4	0.31
(2,7)	1:29:C:LEU:HD22	1:17:C:ASN:HA	4	0.31
(2,7)	1:29:C:LEU:HD23	1:17:C:ASN:HA	4	0.31
(2,7)	1:29:C:LEU:HD21	1:17:C:ASN:HA	6	0.31
(2,7)	1:29:C:LEU:HD22	1:17:C:ASN:HA	6	0.31
(2,7)	1:29:C:LEU:HD23	1:17:C:ASN:HA	6	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,7)	1:29:C:LEU:HD21	1:17:C:ASN:HA	13	0.31
(2,7)	1:29:C:LEU:HD22	1:17:C:ASN:HA	13	0.31
(2,7)	1:29:C:LEU:HD23	1:17:C:ASN:HA	13	0.31
(2,7)	1:29:C:LEU:HD21	1:17:C:ASN:HA	24	0.31
(2,7)	1:29:C:LEU:HD22	1:17:C:ASN:HA	24	0.31
(2,7)	1:29:C:LEU:HD23	1:17:C:ASN:HA	24	0.31
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	4	0.31
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	17	0.31
(2,1533)	1:94:C:ILE:HG21	1:55:C:GLY:HA2	24	0.3
(2,1533)	1:94:C:ILE:HG22	1:55:C:GLY:HA2	24	0.3
(2,1533)	1:94:C:ILE:HG23	1:55:C:GLY:HA2	24	0.3
(2,1516)	1:93:C:GLN:HG2	1:93:C:GLN:HE21	14	0.3
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	3	0.3
(2,1366)	1:82:C:LEU:HG	1:80:C:ASN:HA	11	0.3
(2,1232)	1:72:C:VAL:HG21	1:68:C:GLU:HG3	19	0.3
(2,1232)	1:72:C:VAL:HG22	1:68:C:GLU:HG3	19	0.3
(2,1232)	1:72:C:VAL:HG23	1:68:C:GLU:HG3	19	0.3
(2,1231)	1:72:C:VAL:HG11	1:68:C:GLU:HG3	16	0.3
(2,1231)	1:72:C:VAL:HG12	1:68:C:GLU:HG3	16	0.3
(2,1231)	1:72:C:VAL:HG13	1:68:C:GLU:HG3	16	0.3
(2,1178)	1:69:C:LYS:HG2	1:47:C:ILE:HA	23	0.3
(2,1105)	1:63:C:VAL:HB	1:63:C:VAL:HA	18	0.3
(2,1105)	1:63:C:VAL:HB	1:63:C:VAL:HA	19	0.3
(2,1105)	1:63:C:VAL:HB	1:63:C:VAL:HA	21	0.3
(2,1105)	1:63:C:VAL:HB	1:63:C:VAL:HA	24	0.3
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	8	0.3
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	12	0.3
(2,972)	1:52:C:LYS:HD2	1:51:C:ASP:HB3	20	0.3
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	5	0.3
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	2	0.3
(2,958)	1:50:C:GLU:HB2	1:52:C:LYS:HG2	9	0.3
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG21	25	0.3
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG22	25	0.3
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG23	25	0.3
(2,882)	1:40:C:SER:HA	1:27:C:LEU:HB2	14	0.3
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	3	0.3
(2,708)	1:25:C:GLY:HA2	1:26:C:LYS:HB3	13	0.3
(2,671)	1:22:C:LYS:HE3	1:20:C:LEU:HA	11	0.3
(2,670)	1:22:C:LYS:HG2	1:19:C:LYS:HA	4	0.3
(2,587)	1:13:C:ILE:HD11	1:10:C:MET:HA	17	0.3
(2,587)	1:13:C:ILE:HD12	1:10:C:MET:HA	17	0.3
(2,587)	1:13:C:ILE:HD13	1:10:C:MET:HA	17	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	12	0.3
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	7	0.3
(2,470)	1:77:C:ASN:HD21	1:37:C:LYS:HA	23	0.3
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	5	0.3
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	6	0.3
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	7	0.3
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	11	0.3
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	12	0.3
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	13	0.3
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	14	0.3
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	15	0.3
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	16	0.3
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	17	0.3
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	19	0.3
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	25	0.3
(2,211)	1:29:C:LEU:H	1:17:C:ASN:HD21	2	0.3
(2,189)	1:25:C:GLY:H	1:24:C:LYS:HD2	23	0.3
(2,187)	1:24:C:LYS:HD2	1:24:C:LYS:H	23	0.3
(2,18)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	14	0.3
(2,13)	1:41:C:SER:HB2	1:26:C:LYS:HD2	19	0.3
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	16	0.3
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	17	0.29
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	9	0.29
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	14	0.29
(2,1231)	1:72:C:VAL:HG11	1:68:C:GLU:HG3	1	0.29
(2,1231)	1:72:C:VAL:HG12	1:68:C:GLU:HG3	1	0.29
(2,1231)	1:72:C:VAL:HG13	1:68:C:GLU:HG3	1	0.29
(2,1178)	1:24:C:LYS:HB3	1:47:C:ILE:HA	20	0.29
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	2	0.29
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	20	0.29
(2,999)	1:55:C:GLY:HA2	1:54:C:TRP:HZ3	15	0.29
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	4	0.29
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	18	0.29
(2,958)	1:50:C:GLU:HB2	1:52:C:LYS:HG2	13	0.29
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG21	1	0.29
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG22	1	0.29
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG23	1	0.29
(2,941)	1:47:C:ILE:HG12	1:48:C:SER:HB2	21	0.29
(2,816)	1:32:C:ASN:HB2	1:35:C:GLN:HB2	13	0.29
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	5	0.29
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	13	0.29
(2,691)	1:22:C:LYS:HE2	1:48:C:SER:HB2	4	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	6	0.29
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	9	0.29
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	18	0.29
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	21	0.29
(2,413)	1:68:C:GLU:H	1:68:C:GLU:HG2	21	0.29
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	22	0.29
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	10	0.29
(2,120)	1:8:C:GLU:H	1:3:C:GLN:HB2	1	0.29
(2,59)	1:57:C:PHE:HD1	1:62:C:LYS:HB2	12	0.29
(2,59)	1:57:C:PHE:HD2	1:62:C:LYS:HB2	12	0.29
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	20	0.28
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	21	0.28
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	11	0.28
(2,1443)	1:89:C:ILE:HD11	1:86:C:GLY:HA2	12	0.28
(2,1443)	1:89:C:ILE:HD12	1:86:C:GLY:HA2	12	0.28
(2,1443)	1:89:C:ILE:HD13	1:86:C:GLY:HA2	12	0.28
(2,1231)	1:72:C:VAL:HG11	1:68:C:GLU:HG3	25	0.28
(2,1231)	1:72:C:VAL:HG12	1:68:C:GLU:HG3	25	0.28
(2,1231)	1:72:C:VAL:HG13	1:68:C:GLU:HG3	25	0.28
(2,1205)	1:71:C:THR:HG23	1:44:C:GLY:HA3	15	0.28
(2,1204)	1:71:C:THR:HG22	1:44:C:GLY:HA2	20	0.28
(2,1079)	1:62:C:LYS:HB2	1:61:C:GLU:HG2	23	0.28
(2,1001)	1:55:C:GLY:HA3	1:54:C:TRP:HB3	15	0.28
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	12	0.28
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	1	0.28
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	6	0.28
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	7	0.28
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	22	0.28
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	25	0.28
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	10	0.28
(2,904)	1:45:C:TYR:HB2	1:25:C:GLY:HA3	3	0.28
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	7	0.28
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	8	0.28
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	10	0.28
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	14	0.28
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	16	0.28
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	17	0.28
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	25	0.28
(2,727)	1:26:C:LYS:HG3	1:41:C:SER:HA	18	0.28
(2,710)	1:26:C:LYS:HG2	1:21:C:ASN:HA	5	0.28
(2,670)	1:22:C:LYS:HG2	1:19:C:LYS:HA	9	0.28
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	6	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	12	0.28
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	3	0.28
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	16	0.28
(2,250)	1:37:C:LYS:HG2	1:30:C:SER:H	7	0.28
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	9	0.28
(2,187)	1:24:C:LYS:HD2	1:24:C:LYS:H	12	0.28
(2,142)	1:17:C:ASN:H	1:14:C:ASN:HB2	3	0.28
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	25	0.28
(2,18)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	11	0.28
(2,14)	1:41:C:SER:HB2	1:26:C:LYS:HE2	20	0.28
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	23	0.28
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	15	0.28
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	22	0.27
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	22	0.27
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	22	0.27
(2,1533)	1:94:C:ILE:HG21	1:55:C:GLY:HA2	16	0.27
(2,1533)	1:94:C:ILE:HG22	1:55:C:GLY:HA2	16	0.27
(2,1533)	1:94:C:ILE:HG23	1:55:C:GLY:HA2	16	0.27
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	25	0.27
(2,1457)	1:89:C:ILE:HG23	1:59:C:ASN:HA	11	0.27
(2,1424)	1:88:C:TYR:HA	1:8:C:GLU:HG2	6	0.27
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	19	0.27
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	19	0.27
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	19	0.27
(2,1308)	1:78:C:ASP:HB3	1:82:C:LEU:HG	6	0.27
(2,1226)	1:40:C:SER:HA	1:27:C:LEU:HB3	2	0.27
(2,1220)	1:72:C:VAL:HG11	1:25:C:GLY:HA3	13	0.27
(2,1220)	1:72:C:VAL:HG12	1:25:C:GLY:HA3	13	0.27
(2,1220)	1:72:C:VAL:HG13	1:25:C:GLY:HA3	13	0.27
(2,1207)	1:71:C:THR:HB	1:44:C:GLY:HA2	20	0.27
(2,1204)	1:71:C:THR:HG21	1:44:C:GLY:HA2	17	0.27
(2,1166)	1:68:C:GLU:HB3	1:52:C:LYS:HB3	4	0.27
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	22	0.27
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG21	19	0.27
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG22	19	0.27
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG23	19	0.27
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	13	0.27
(2,816)	1:32:C:ASN:HB2	1:35:C:GLN:HB2	22	0.27
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	15	0.27
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	18	0.27
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	21	0.27
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	23	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,769)	1:27:C:LEU:HD21	1:72:C:VAL:HB	8	0.27
(2,769)	1:27:C:LEU:HD22	1:72:C:VAL:HB	8	0.27
(2,769)	1:27:C:LEU:HD23	1:72:C:VAL:HB	8	0.27
(2,726)	1:26:C:LYS:HE2	1:26:C:LYS:HA	13	0.27
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	18	0.27
(2,660)	1:20:C:LEU:HD11	1:54:C:TRP:HE3	22	0.27
(2,660)	1:20:C:LEU:HD12	1:54:C:TRP:HE3	22	0.27
(2,660)	1:20:C:LEU:HD13	1:54:C:TRP:HE3	22	0.27
(2,551)	1:92:C:LYS:H	1:55:C:GLY:H	2	0.27
(2,506)	1:82:C:LEU:HB2	1:83:C:ASN:H	5	0.27
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	11	0.27
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	13	0.27
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	2	0.27
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	19	0.27
(2,467)	1:76:C:SER:HA	1:77:C:ASN:H	4	0.27
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	20	0.27
(2,435)	1:72:C:VAL:HG11	1:73:C:GLY:H	19	0.27
(2,435)	1:72:C:VAL:HG12	1:73:C:GLY:H	19	0.27
(2,435)	1:72:C:VAL:HG13	1:73:C:GLY:H	19	0.27
(2,377)	1:62:C:LYS:HG2	1:62:C:LYS:H	6	0.27
(2,326)	1:52:C:LYS:HG2	1:53:C:ASN:H	15	0.27
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	1	0.27
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	1	0.27
(2,7)	1:29:C:LEU:HD21	1:17:C:ASN:HA	3	0.27
(2,7)	1:29:C:LEU:HD22	1:17:C:ASN:HA	3	0.27
(2,7)	1:29:C:LEU:HD23	1:17:C:ASN:HA	3	0.27
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	22	0.27
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	5	0.27
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	17	0.27
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	9	0.26
(2,1308)	1:78:C:ASP:HB3	1:82:C:LEU:HG	16	0.26
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	18	0.26
(2,1231)	1:72:C:VAL:HG11	1:68:C:GLU:HG3	7	0.26
(2,1231)	1:72:C:VAL:HG12	1:68:C:GLU:HG3	7	0.26
(2,1231)	1:72:C:VAL:HG13	1:68:C:GLU:HG3	7	0.26
(2,1226)	1:40:C:SER:HA	1:27:C:LEU:HB3	4	0.26
(2,1226)	1:40:C:SER:HA	1:27:C:LEU:HB3	9	0.26
(2,1207)	1:71:C:THR:HB	1:44:C:GLY:HA2	17	0.26
(2,1026)	1:56:C:ILE:HA	1:91:C:ILE:HG13	21	0.26
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG21	8	0.26
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG22	8	0.26
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG23	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	8	0.26
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	10	0.26
(2,876)	1:40:C:SER:HB2	1:26:C:LYS:HG3	5	0.26
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	9	0.26
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	11	0.26
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	19	0.26
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	22	0.26
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	24	0.26
(2,607)	1:15:C:SER:HB2	1:15:C:SER:HA	2	0.26
(2,517)	1:84:C:ILE:HB	1:36:C:LEU:H	1	0.26
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	19	0.26
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	23	0.26
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	14	0.26
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	4	0.26
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	6	0.26
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	1	0.26
(2,326)	1:52:C:LYS:HG2	1:53:C:ASN:H	19	0.26
(2,326)	1:52:C:LYS:HG2	1:53:C:ASN:H	22	0.26
(2,187)	1:24:C:LYS:HD2	1:24:C:LYS:H	3	0.26
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	20	0.26
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	21	0.26
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	21	0.26
(2,16)	1:25:C:GLY:HA2	1:22:C:LYS:HE2	18	0.26
(2,13)	1:41:C:SER:HB2	1:26:C:LYS:HD2	11	0.26
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	24	0.26
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	2	0.26
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	4	0.26
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	20	0.25
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	20	0.25
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	20	0.25
(2,1385)	1:84:C:ILE:HB	1:36:C:LEU:HG	1	0.25
(2,1367)	1:82:C:LEU:HD11	1:81:C:LYS:HE2	6	0.25
(2,1367)	1:82:C:LEU:HD12	1:81:C:LYS:HE2	6	0.25
(2,1367)	1:82:C:LEU:HD13	1:81:C:LYS:HE2	6	0.25
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	9	0.25
(2,1220)	1:72:C:VAL:HG11	1:25:C:GLY:HA3	5	0.25
(2,1220)	1:72:C:VAL:HG12	1:25:C:GLY:HA3	5	0.25
(2,1220)	1:72:C:VAL:HG13	1:25:C:GLY:HA3	5	0.25
(2,1204)	1:71:C:THR:HG22	1:44:C:GLY:HA2	10	0.25
(2,1101)	1:62:C:LYS:HB3	1:62:C:LYS:HE3	17	0.25
(2,1101)	1:62:C:LYS:HB3	1:62:C:LYS:HE3	25	0.25
(2,1064)	1:58:C:VAL:HG11	1:89:C:ILE:HA	20	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1064)	1:58:C:VAL:HG12	1:89:C:ILE:HA	20	0.25
(2,1064)	1:58:C:VAL:HG13	1:89:C:ILE:HA	20	0.25
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	10	0.25
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	11	0.25
(2,941)	1:48:C:SER:HB2	1:24:C:LYS:HG2	15	0.25
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	9	0.25
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	17	0.25
(2,939)	1:48:C:SER:HA	1:24:C:LYS:HD3	25	0.25
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	6	0.25
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	15	0.25
(2,883)	1:40:C:SER:HB3	1:39:C:THR:HA	13	0.25
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	4	0.25
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	6	0.25
(2,756)	1:36:C:LEU:HD11	1:29:C:LEU:HA	16	0.25
(2,706)	1:25:C:GLY:HA2	1:26:C:LYS:HE2	23	0.25
(2,626)	1:18:C:ASP:HA	1:21:C:ASN:HB3	16	0.25
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	15	0.25
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	17	0.25
(2,413)	1:68:C:GLU:H	1:68:C:GLU:HG2	13	0.25
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	16	0.25
(2,124)	1:9:C:GLN:HG2	1:31:C:MET:H	21	0.25
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	19	0.25
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	19	0.25
(2,27)	1:20:C:LEU:HD11	1:54:C:TRP:HE3	19	0.25
(2,27)	1:20:C:LEU:HD12	1:54:C:TRP:HE3	19	0.25
(2,27)	1:20:C:LEU:HD13	1:54:C:TRP:HE3	19	0.25
(2,13)	1:41:C:SER:HB2	1:26:C:LYS:HD2	18	0.25
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	1	0.25
(2,5)	1:25:C:GLY:HA3	1:26:C:LYS:HB3	20	0.25
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	16	0.25
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	10	0.24
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	10	0.24
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	10	0.24
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	16	0.24
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	13	0.24
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	16	0.24
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	2	0.24
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	2	0.24
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	2	0.24
(2,1362)	1:82:C:LEU:HB3	1:79:C:ILE:HA	21	0.24
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	13	0.24
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	15	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	2	0.24
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	23	0.24
(2,1232)	1:72:C:VAL:HG21	1:68:C:GLU:HG3	14	0.24
(2,1232)	1:72:C:VAL:HG22	1:68:C:GLU:HG3	14	0.24
(2,1232)	1:72:C:VAL:HG23	1:68:C:GLU:HG3	14	0.24
(2,1230)	1:72:C:VAL:HG21	1:68:C:GLU:HA	21	0.24
(2,1230)	1:72:C:VAL:HG22	1:68:C:GLU:HA	21	0.24
(2,1230)	1:72:C:VAL:HG23	1:68:C:GLU:HA	21	0.24
(2,1226)	1:40:C:SER:HA	1:27:C:LEU:HB3	6	0.24
(2,1166)	1:68:C:GLU:HB3	1:52:C:LYS:HB3	11	0.24
(2,1061)	1:58:C:VAL:HG21	1:61:C:GLU:HG2	1	0.24
(2,1061)	1:58:C:VAL:HG22	1:61:C:GLU:HG2	1	0.24
(2,1061)	1:58:C:VAL:HG23	1:61:C:GLU:HG2	1	0.24
(2,970)	1:51:C:ASP:HA	1:69:C:LYS:HG3	5	0.24
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	9	0.24
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	1	0.24
(2,807)	1:30:C:SER:HA	1:29:C:LEU:HA	20	0.24
(2,756)	1:36:C:LEU:HD12	1:29:C:LEU:HA	25	0.24
(2,742)	1:27:C:LEU:HD11	1:27:C:LEU:HA	7	0.24
(2,742)	1:27:C:LEU:HD12	1:27:C:LEU:HA	7	0.24
(2,742)	1:27:C:LEU:HD13	1:27:C:LEU:HA	7	0.24
(2,727)	1:26:C:LYS:HG3	1:41:C:SER:HA	7	0.24
(2,702)	1:24:C:LYS:HB3	1:24:C:LYS:HE2	9	0.24
(2,607)	1:15:C:SER:HB2	1:15:C:SER:HA	4	0.24
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	10	0.24
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	21	0.24
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	1	0.24
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	17	0.24
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	18	0.24
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	23	0.24
(2,413)	1:68:C:GLU:H	1:68:C:GLU:HG2	20	0.24
(2,330)	1:53:C:ASN:HD21	1:53:C:ASN:H	16	0.24
(2,326)	1:52:C:LYS:HG2	1:53:C:ASN:H	12	0.24
(2,259)	1:37:C:LYS:HG3	1:37:C:LYS:H	13	0.24
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	1	0.24
(2,250)	1:37:C:LYS:HG2	1:30:C:SER:H	21	0.24
(2,187)	1:24:C:LYS:HD2	1:24:C:LYS:H	18	0.24
(2,187)	1:24:C:LYS:HD2	1:24:C:LYS:H	19	0.24
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	4	0.24
(2,117)	1:6:C:LEU:HD13	1:9:C:GLN:H	14	0.24
(2,111)	1:4:C:LYS:HB2	1:2:C:ASN:H	7	0.24
(2,59)	1:57:C:PHE:HD1	1:62:C:LYS:HB2	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,59)	1:57:C:PHE:HD2	1:62:C:LYS:HB2	3	0.24
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	5	0.24
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	10	0.24
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	4	0.24
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	25	0.24
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	9	0.24
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	1	0.23
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	1	0.23
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	1	0.23
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	18	0.23
(2,1516)	1:93:C:GLN:HG2	1:93:C:GLN:HE21	8	0.23
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	10	0.23
(2,1367)	1:82:C:LEU:HD11	1:81:C:LYS:HE2	4	0.23
(2,1367)	1:82:C:LEU:HD12	1:81:C:LYS:HE2	4	0.23
(2,1367)	1:82:C:LEU:HD13	1:81:C:LYS:HE2	4	0.23
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	4	0.23
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	4	0.23
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	4	0.23
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	3	0.23
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	5	0.23
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	25	0.23
(2,1234)	1:72:C:VAL:HG11	1:68:C:GLU:HG2	23	0.23
(2,1234)	1:72:C:VAL:HG12	1:68:C:GLU:HG2	23	0.23
(2,1234)	1:72:C:VAL:HG13	1:68:C:GLU:HG2	23	0.23
(2,1226)	1:40:C:SER:HA	1:27:C:LEU:HB3	20	0.23
(2,1164)	1:68:C:GLU:HB2	1:52:C:LYS:HB2	23	0.23
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG11	20	0.23
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG12	20	0.23
(2,1043)	1:57:C:PHE:HA	1:63:C:VAL:HG13	20	0.23
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	1	0.23
(2,904)	1:45:C:TYR:HB2	1:25:C:GLY:HA3	21	0.23
(2,903)	1:45:C:TYR:HB2	1:24:C:LYS:HG2	22	0.23
(2,889)	1:40:C:SER:HA	1:72:C:VAL:HB	10	0.23
(2,883)	1:40:C:SER:HB3	1:39:C:THR:HA	24	0.23
(2,875)	1:40:C:SER:HB3	1:26:C:LYS:HG3	13	0.23
(2,853)	1:37:C:LYS:HA	1:37:C:LYS:HD2	11	0.23
(2,816)	1:32:C:ASN:HB2	1:35:C:GLN:HB2	9	0.23
(2,756)	1:27:C:LEU:HG	1:29:C:LEU:HA	8	0.23
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	19	0.23
(2,690)	1:22:C:LYS:HE3	1:48:C:SER:HB2	11	0.23
(2,607)	1:15:C:SER:HB2	1:15:C:SER:HA	14	0.23
(2,607)	1:15:C:SER:HB2	1:15:C:SER:HA	15	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,567)	1:94:C:ILE:H	1:94:C:ILE:HG12	10	0.23
(2,470)	1:77:C:ASN:HD21	1:37:C:LYS:HA	8	0.23
(2,470)	1:77:C:ASN:HD21	1:37:C:LYS:HA	12	0.23
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	5	0.23
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	8	0.23
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	1	0.23
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	24	0.23
(2,329)	1:52:C:LYS:H	1:68:C:GLU:HB3	1	0.23
(2,326)	1:52:C:LYS:HG2	1:53:C:ASN:H	6	0.23
(2,326)	1:52:C:LYS:HG2	1:53:C:ASN:H	8	0.23
(2,326)	1:52:C:LYS:HG2	1:53:C:ASN:H	21	0.23
(2,294)	1:45:C:TYR:HB3	1:46:C:GLY:H	12	0.23
(2,294)	1:45:C:TYR:HB3	1:46:C:GLY:H	19	0.23
(2,259)	1:37:C:LYS:HG3	1:37:C:LYS:H	8	0.23
(2,259)	1:37:C:LYS:HG3	1:37:C:LYS:H	15	0.23
(2,252)	1:37:C:LYS:H	1:30:C:SER:H	17	0.23
(2,231)	1:32:C:ASN:HB3	1:35:C:GLN:H	1	0.23
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	15	0.23
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	5	0.23
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	5	0.23
(2,30)	1:27:C:LEU:HD22	1:64:C:TYR:HE1	22	0.23
(2,13)	1:41:C:SER:HB2	1:26:C:LYS:HD2	16	0.23
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	2	0.23
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	18	0.23
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	6	0.23
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	15	0.23
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	19	0.23
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	3	0.22
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	3	0.22
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	3	0.22
(2,1505)	1:93:C:GLN:HB3	1:53:C:ASN:HB3	24	0.22
(2,1467)	1:66:C:PHE:HE2	1:91:C:ILE:HD12	18	0.22
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	5	0.22
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	8	0.22
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	12	0.22
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	19	0.22
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	23	0.22
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	20	0.22
(2,1387)	1:84:C:ILE:HG13	1:58:C:VAL:HG12	14	0.22
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	13	0.22
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	13	0.22
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	13	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	18	0.22
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	18	0.22
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	18	0.22
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	16	0.22
(2,1231)	1:72:C:VAL:HG11	1:68:C:GLU:HG3	24	0.22
(2,1231)	1:72:C:VAL:HG12	1:68:C:GLU:HG3	24	0.22
(2,1231)	1:72:C:VAL:HG13	1:68:C:GLU:HG3	24	0.22
(2,1216)	1:71:C:THR:HA	1:46:C:GLY:HA2	4	0.22
(2,1182)	1:69:C:LYS:HG2	1:68:C:GLU:HA	20	0.22
(2,1164)	1:68:C:GLU:HB2	1:52:C:LYS:HB2	17	0.22
(2,1160)	1:68:C:GLU:HB3	1:47:C:ILE:HB	20	0.22
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	6	0.22
(2,1041)	1:57:C:PHE:HE1	1:62:C:LYS:HE3	9	0.22
(2,1041)	1:57:C:PHE:HE1	1:62:C:LYS:HE3	13	0.22
(2,1001)	1:55:C:GLY:HA3	1:54:C:TRP:HB3	23	0.22
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG21	11	0.22
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG22	11	0.22
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG23	11	0.22
(2,915)	1:46:C:GLY:HA2	1:24:C:LYS:HB3	19	0.22
(2,782)	1:36:C:LEU:HD21	1:29:C:LEU:HB2	9	0.22
(2,780)	1:28:C:SER:HB3	1:39:C:THR:HB	25	0.22
(2,742)	1:27:C:LEU:HD11	1:27:C:LEU:HA	13	0.22
(2,742)	1:27:C:LEU:HD12	1:27:C:LEU:HA	13	0.22
(2,742)	1:27:C:LEU:HD13	1:27:C:LEU:HA	13	0.22
(2,704)	1:25:C:GLY:HA3	1:26:C:LYS:HG2	3	0.22
(2,659)	1:20:C:LEU:HD11	1:22:C:LYS:HE3	11	0.22
(2,659)	1:20:C:LEU:HD12	1:22:C:LYS:HE3	11	0.22
(2,659)	1:20:C:LEU:HD13	1:22:C:LYS:HE3	11	0.22
(2,607)	1:15:C:SER:HB2	1:15:C:SER:HA	21	0.22
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	8	0.22
(2,470)	1:77:C:ASN:HD21	1:37:C:LYS:HA	7	0.22
(2,470)	1:77:C:ASN:HD21	1:37:C:LYS:HA	13	0.22
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	18	0.22
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	13	0.22
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	3	0.22
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	10	0.22
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	22	0.22
(2,413)	1:68:C:GLU:H	1:68:C:GLU:HG2	3	0.22
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	11	0.22
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	17	0.22
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	22	0.22
(2,326)	1:52:C:LYS:HG2	1:53:C:ASN:H	20	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,320)	1:51:C:ASP:H	1:51:C:ASP:HB2	22	0.22
(2,294)	1:45:C:TYR:HB3	1:46:C:GLY:H	18	0.22
(2,294)	1:45:C:TYR:HB3	1:46:C:GLY:H	22	0.22
(2,259)	1:37:C:LYS:HG3	1:37:C:LYS:H	11	0.22
(2,189)	1:25:C:GLY:H	1:24:C:LYS:HD2	17	0.22
(2,187)	1:24:C:LYS:HD2	1:24:C:LYS:H	5	0.22
(2,66)	1:64:C:TYR:HE1	1:54:C:TRP:HB2	1	0.22
(2,66)	1:64:C:TYR:HE2	1:54:C:TRP:HB2	1	0.22
(2,27)	1:20:C:LEU:HD11	1:54:C:TRP:HE3	9	0.22
(2,27)	1:20:C:LEU:HD12	1:54:C:TRP:HE3	9	0.22
(2,27)	1:20:C:LEU:HD13	1:54:C:TRP:HE3	9	0.22
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	25	0.22
(2,7)	1:29:C:LEU:HD21	1:17:C:ASN:HA	14	0.22
(2,7)	1:29:C:LEU:HD22	1:17:C:ASN:HA	14	0.22
(2,7)	1:29:C:LEU:HD23	1:17:C:ASN:HA	14	0.22
(2,6)	1:29:C:LEU:HD11	1:17:C:ASN:HA	17	0.22
(2,6)	1:29:C:LEU:HD12	1:17:C:ASN:HA	17	0.22
(2,6)	1:29:C:LEU:HD13	1:17:C:ASN:HA	17	0.22
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	2	0.22
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	3	0.22
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	9	0.22
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	22	0.22
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	19	0.21
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	19	0.21
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	19	0.21
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	23	0.21
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	23	0.21
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	23	0.21
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	25	0.21
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	25	0.21
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	25	0.21
(2,1521)	1:93:C:GLN:HB3	1:53:C:ASN:HB2	9	0.21
(2,1521)	1:93:C:GLN:HB3	1:53:C:ASN:HB2	11	0.21
(2,1516)	1:93:C:GLN:HG2	1:93:C:GLN:HE21	10	0.21
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	7	0.21
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	17	0.21
(2,1367)	1:82:C:LEU:HD11	1:81:C:LYS:HE2	13	0.21
(2,1367)	1:82:C:LEU:HD12	1:81:C:LYS:HE2	13	0.21
(2,1367)	1:82:C:LEU:HD13	1:81:C:LYS:HE2	13	0.21
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	9	0.21
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	9	0.21
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1313)	1:79:C:ILE:HD11	1:36:C:LEU:HG	22	0.21
(2,1313)	1:79:C:ILE:HD12	1:36:C:LEU:HG	22	0.21
(2,1313)	1:79:C:ILE:HD13	1:36:C:LEU:HG	22	0.21
(2,1232)	1:72:C:VAL:HG21	1:68:C:GLU:HG3	16	0.21
(2,1232)	1:72:C:VAL:HG22	1:68:C:GLU:HG3	16	0.21
(2,1232)	1:72:C:VAL:HG23	1:68:C:GLU:HG3	16	0.21
(2,1231)	1:72:C:VAL:HG11	1:68:C:GLU:HG3	4	0.21
(2,1231)	1:72:C:VAL:HG12	1:68:C:GLU:HG3	4	0.21
(2,1231)	1:72:C:VAL:HG13	1:68:C:GLU:HG3	4	0.21
(2,1216)	1:71:C:THR:HA	1:46:C:GLY:HA2	25	0.21
(2,1182)	1:69:C:LYS:HG2	1:68:C:GLU:HA	18	0.21
(2,1164)	1:68:C:GLU:HB2	1:52:C:LYS:HB2	9	0.21
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	23	0.21
(2,972)	1:52:C:LYS:HD2	1:51:C:ASP:HB3	16	0.21
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	20	0.21
(2,958)	1:50:C:GLU:HB2	1:52:C:LYS:HG2	3	0.21
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG21	2	0.21
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG22	2	0.21
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG23	2	0.21
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG21	12	0.21
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG22	12	0.21
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG23	12	0.21
(2,941)	1:48:C:SER:HB2	1:24:C:LYS:HG2	17	0.21
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	15	0.21
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD11	20	0.21
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD12	20	0.21
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD13	20	0.21
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD11	24	0.21
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD12	24	0.21
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD13	24	0.21
(2,897)	1:43:C:ALA:HB1	1:41:C:SER:HA	13	0.21
(2,897)	1:43:C:ALA:HB2	1:41:C:SER:HA	13	0.21
(2,897)	1:43:C:ALA:HB3	1:41:C:SER:HA	13	0.21
(2,857)	1:37:C:LYS:HB2	1:37:C:LYS:HE2	11	0.21
(2,816)	1:32:C:ASN:HB2	1:35:C:GLN:HB2	7	0.21
(2,756)	1:36:C:LEU:HD12	1:29:C:LEU:HA	6	0.21
(2,756)	1:27:C:LEU:HG	1:29:C:LEU:HA	12	0.21
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	21	0.21
(2,704)	1:25:C:GLY:HA3	1:24:C:LYS:HG2	14	0.21
(2,704)	1:25:C:GLY:HA3	1:26:C:LYS:HG2	15	0.21
(2,704)	1:25:C:GLY:HA3	1:26:C:LYS:HG2	17	0.21
(2,607)	1:15:C:SER:HB2	1:15:C:SER:HA	23	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,567)	1:94:C:ILE:H	1:94:C:ILE:HG12	1	0.21
(2,565)	1:94:C:ILE:H	1:93:C:GLN:HB2	8	0.21
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	15	0.21
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	13	0.21
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	7	0.21
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	8	0.21
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	16	0.21
(2,413)	1:68:C:GLU:H	1:68:C:GLU:HG2	22	0.21
(2,409)	1:48:C:SER:HB2	1:48:C:SER:H	24	0.21
(2,299)	1:47:C:ILE:H	1:46:C:GLY:H	23	0.21
(2,294)	1:45:C:TYR:HB3	1:46:C:GLY:H	15	0.21
(2,259)	1:37:C:LYS:HG3	1:37:C:LYS:H	12	0.21
(2,242)	1:35:C:GLN:HG2	1:36:C:LEU:H	25	0.21
(2,124)	1:9:C:GLN:HG2	1:31:C:MET:H	11	0.21
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	9	0.21
(2,66)	1:64:C:TYR:HE1	1:54:C:TRP:HB2	19	0.21
(2,66)	1:64:C:TYR:HE2	1:54:C:TRP:HB2	19	0.21
(2,18)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	2	0.21
(2,18)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	7	0.21
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	12	0.21
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	14	0.21
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	18	0.21
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	8	0.2
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	24	0.2
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	11	0.2
(2,1405)	1:85:C:LYS:HB2	1:85:C:LYS:HG2	21	0.2
(2,1367)	1:82:C:LEU:HD11	1:81:C:LYS:HE2	9	0.2
(2,1367)	1:82:C:LEU:HD12	1:81:C:LYS:HE2	9	0.2
(2,1367)	1:82:C:LEU:HD13	1:81:C:LYS:HE2	9	0.2
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	3	0.2
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	3	0.2
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	3	0.2
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	5	0.2
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	5	0.2
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	5	0.2
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	19	0.2
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	25	0.2
(2,1308)	1:78:C:ASP:HB3	1:82:C:LEU:HG	4	0.2
(2,1305)	1:78:C:ASP:HA	1:81:C:LYS:HD2	7	0.2
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	7	0.2
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	13	0.2
(2,1242)	1:72:C:VAL:HG11	1:73:C:GLY:HA3	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1242)	1:72:C:VAL:HG12	1:73:C:GLY:HA3	19	0.2
(2,1242)	1:72:C:VAL:HG13	1:73:C:GLY:HA3	19	0.2
(2,1232)	1:72:C:VAL:HG21	1:68:C:GLU:HG3	5	0.2
(2,1232)	1:72:C:VAL:HG22	1:68:C:GLU:HG3	5	0.2
(2,1232)	1:72:C:VAL:HG23	1:68:C:GLU:HG3	5	0.2
(2,1169)	1:68:C:GLU:HG3	1:54:C:TRP:HD1	1	0.2
(2,1169)	1:68:C:GLU:HG3	1:54:C:TRP:HD1	5	0.2
(2,1169)	1:68:C:GLU:HG3	1:54:C:TRP:HD1	7	0.2
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	6	0.2
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	5	0.2
(2,904)	1:45:C:TYR:HB2	1:25:C:GLY:HA3	14	0.2
(2,889)	1:40:C:SER:HA	1:72:C:VAL:HB	20	0.2
(2,889)	1:40:C:SER:HA	1:72:C:VAL:HB	21	0.2
(2,883)	1:40:C:SER:HB3	1:39:C:THR:HA	23	0.2
(2,762)	1:27:C:LEU:HD21	1:39:C:THR:HA	22	0.2
(2,762)	1:27:C:LEU:HD22	1:39:C:THR:HA	22	0.2
(2,762)	1:27:C:LEU:HD23	1:39:C:THR:HA	22	0.2
(2,690)	1:22:C:LYS:HE3	1:48:C:SER:HB2	7	0.2
(2,671)	1:22:C:LYS:HE3	1:20:C:LEU:HA	6	0.2
(2,635)	1:19:C:LYS:HA	1:19:C:LYS:HE2	13	0.2
(2,626)	1:18:C:ASP:HA	1:21:C:ASN:HB3	5	0.2
(2,607)	1:15:C:SER:HB2	1:15:C:SER:HA	13	0.2
(2,470)	1:77:C:ASN:HD21	1:37:C:LYS:HA	10	0.2
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	9	0.2
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	10	0.2
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	19	0.2
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	21	0.2
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	22	0.2
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	25	0.2
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	11	0.2
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	13	0.2
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	15	0.2
(2,413)	1:68:C:GLU:H	1:68:C:GLU:HG2	15	0.2
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	14	0.2
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	5	0.2
(2,326)	1:52:C:LYS:HG2	1:53:C:ASN:H	13	0.2
(2,320)	1:51:C:ASP:H	1:51:C:ASP:HB2	6	0.2
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	1	0.2
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	14	0.2
(2,30)	1:27:C:LEU:HD23	1:64:C:TYR:HE2	17	0.2
(2,13)	1:41:C:SER:HB2	1:26:C:LYS:HD2	15	0.2
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	7	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	22	0.2
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	20	0.2
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	21	0.2
(1,18)	1:68:C:GLU:H	1:52:C:LYS:O	24	0.2
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	5	0.2
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	8	0.2
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	13	0.19
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	13	0.19
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	13	0.19
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	16	0.19
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	16	0.19
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	16	0.19
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	8	0.19
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	13	0.19
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	14	0.19
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	9	0.19
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	9	0.19
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	9	0.19
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	15	0.19
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	18	0.19
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	16	0.19
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	16	0.19
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	16	0.19
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	1	0.19
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	8	0.19
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	17	0.19
(2,1347)	1:80:C:ASN:HA	1:36:C:LEU:HB2	19	0.19
(2,1308)	1:78:C:ASP:HB3	1:82:C:LEU:HG	20	0.19
(2,1204)	1:71:C:THR:HG23	1:44:C:GLY:HA2	13	0.19
(2,1197)	1:70:C:SER:HB3	1:67:C:ASN:HB3	16	0.19
(2,1182)	1:69:C:LYS:HG2	1:68:C:GLU:HA	1	0.19
(2,1169)	1:68:C:GLU:HG3	1:54:C:TRP:HD1	16	0.19
(2,1169)	1:68:C:GLU:HG3	1:54:C:TRP:HD1	17	0.19
(2,1169)	1:68:C:GLU:HG3	1:54:C:TRP:HD1	19	0.19
(2,1166)	1:68:C:GLU:HB3	1:52:C:LYS:HB3	24	0.19
(2,1155)	1:67:C:ASN:HB2	1:65:C:THR:HG21	21	0.19
(2,1155)	1:67:C:ASN:HB2	1:65:C:THR:HG22	21	0.19
(2,1155)	1:67:C:ASN:HB2	1:65:C:THR:HG23	21	0.19
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	14	0.19
(2,1001)	1:55:C:GLY:HA3	1:54:C:TRP:HB3	5	0.19
(2,1001)	1:55:C:GLY:HA3	1:54:C:TRP:HB3	11	0.19
(2,999)	1:55:C:GLY:HA2	1:54:C:TRP:HZ3	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	7	0.19
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	8	0.19
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	9	0.19
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	13	0.19
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	14	0.19
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	18	0.19
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD11	4	0.19
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD12	4	0.19
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD13	4	0.19
(2,897)	1:43:C:ALA:HB1	1:41:C:SER:HA	22	0.19
(2,897)	1:43:C:ALA:HB2	1:41:C:SER:HA	22	0.19
(2,897)	1:43:C:ALA:HB3	1:41:C:SER:HA	22	0.19
(2,875)	1:40:C:SER:HB3	1:26:C:LYS:HG3	12	0.19
(2,816)	1:32:C:ASN:HB2	1:35:C:GLN:HB2	24	0.19
(2,778)	1:28:C:SER:HB3	1:39:C:THR:HG1	22	0.19
(2,727)	1:26:C:LYS:HG3	1:41:C:SER:HA	20	0.19
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	15	0.19
(2,703)	1:24:C:LYS:HB3	1:46:C:GLY:HA3	25	0.19
(2,663)	1:20:C:LEU:HD11	1:91:C:ILE:HG21	23	0.19
(2,663)	1:20:C:LEU:HD11	1:91:C:ILE:HG22	23	0.19
(2,663)	1:20:C:LEU:HD11	1:91:C:ILE:HG23	23	0.19
(2,663)	1:20:C:LEU:HD12	1:91:C:ILE:HG21	23	0.19
(2,663)	1:20:C:LEU:HD12	1:91:C:ILE:HG22	23	0.19
(2,663)	1:20:C:LEU:HD12	1:91:C:ILE:HG23	23	0.19
(2,663)	1:20:C:LEU:HD13	1:91:C:ILE:HG21	23	0.19
(2,663)	1:20:C:LEU:HD13	1:91:C:ILE:HG22	23	0.19
(2,663)	1:20:C:LEU:HD13	1:91:C:ILE:HG23	23	0.19
(2,588)	1:13:C:ILE:HG12	1:12:C:SER:HB2	3	0.19
(2,570)	1:4:C:LYS:HB3	1:2:C:ASN:HA	8	0.19
(2,567)	1:94:C:ILE:H	1:94:C:ILE:HG12	3	0.19
(2,551)	1:92:C:LYS:H	1:55:C:GLY:H	8	0.19
(2,507)	1:82:C:LEU:HB3	1:84:C:ILE:H	7	0.19
(2,506)	1:82:C:LEU:HB2	1:83:C:ASN:H	6	0.19
(2,506)	1:82:C:LEU:HB2	1:83:C:ASN:H	8	0.19
(2,506)	1:82:C:LEU:HB2	1:83:C:ASN:H	25	0.19
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	16	0.19
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	9	0.19
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	17	0.19
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	19	0.19
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	21	0.19
(2,413)	1:68:C:GLU:H	1:68:C:GLU:HG2	12	0.19
(2,409)	1:48:C:SER:HB2	1:48:C:SER:H	18	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	7	0.19
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	10	0.19
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	12	0.19
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	21	0.19
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	25	0.19
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	16	0.19
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	24	0.19
(2,116)	1:5:C:ALA:HA	1:6:C:LEU:H	6	0.19
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	7	0.19
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	7	0.19
(2,18)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	16	0.19
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	4	0.19
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	11	0.19
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	13	0.19
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	23	0.19
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	4	0.18
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	4	0.18
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	4	0.18
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	7	0.18
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	7	0.18
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	7	0.18
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	12	0.18
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	12	0.18
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	12	0.18
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	21	0.18
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	21	0.18
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	21	0.18
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	11	0.18
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	6	0.18
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	11	0.18
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	15	0.18
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	17	0.18
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	22	0.18
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	6	0.18
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	6	0.18
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	6	0.18
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	24	0.18
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	24	0.18
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	24	0.18
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	20	0.18
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	8	0.18
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	8	0.18
(2,1362)	1:82:C:LEU:HB3	1:79:C:ILE:HA	20	0.18
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	7	0.18
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	9	0.18
(2,1232)	1:72:C:VAL:HG21	1:68:C:GLU:HG3	11	0.18
(2,1232)	1:72:C:VAL:HG22	1:68:C:GLU:HG3	11	0.18
(2,1232)	1:72:C:VAL:HG23	1:68:C:GLU:HG3	11	0.18
(2,1231)	1:72:C:VAL:HG11	1:68:C:GLU:HG3	17	0.18
(2,1231)	1:72:C:VAL:HG12	1:68:C:GLU:HG3	17	0.18
(2,1231)	1:72:C:VAL:HG13	1:68:C:GLU:HG3	17	0.18
(2,1220)	1:72:C:VAL:HG11	1:25:C:GLY:HA3	15	0.18
(2,1220)	1:72:C:VAL:HG12	1:25:C:GLY:HA3	15	0.18
(2,1220)	1:72:C:VAL:HG13	1:25:C:GLY:HA3	15	0.18
(2,1216)	1:71:C:THR:HA	1:46:C:GLY:HA2	10	0.18
(2,1205)	1:71:C:THR:HG21	1:44:C:GLY:HA3	8	0.18
(2,1169)	1:68:C:GLU:HG3	1:54:C:TRP:HD1	9	0.18
(2,1169)	1:68:C:GLU:HG3	1:54:C:TRP:HD1	14	0.18
(2,1160)	1:68:C:GLU:HB3	1:47:C:ILE:HB	23	0.18
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	4	0.18
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	20	0.18
(2,968)	1:68:C:GLU:HB3	1:52:C:LYS:HB2	3	0.18
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	25	0.18
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	24	0.18
(2,905)	1:45:C:TYR:HB3	1:25:C:GLY:HA3	1	0.18
(2,889)	1:40:C:SER:HA	1:72:C:VAL:HB	6	0.18
(2,888)	1:40:C:SER:HA	1:41:C:SER:HA	25	0.18
(2,875)	1:40:C:SER:HB3	1:26:C:LYS:HG3	23	0.18
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	25	0.18
(2,671)	1:22:C:LYS:HE3	1:20:C:LEU:HA	4	0.18
(2,618)	1:16:C:VAL:HG21	1:20:C:LEU:HG	4	0.18
(2,618)	1:16:C:VAL:HG22	1:20:C:LEU:HG	4	0.18
(2,618)	1:16:C:VAL:HG23	1:20:C:LEU:HG	4	0.18
(2,618)	1:16:C:VAL:HG21	1:20:C:LEU:HG	13	0.18
(2,618)	1:16:C:VAL:HG22	1:20:C:LEU:HG	13	0.18
(2,618)	1:16:C:VAL:HG23	1:20:C:LEU:HG	13	0.18
(2,607)	1:15:C:SER:HB2	1:15:C:SER:HA	22	0.18
(2,588)	1:13:C:ILE:HG12	1:12:C:SER:HB2	7	0.18
(2,588)	1:13:C:ILE:HG12	1:12:C:SER:HB2	9	0.18
(2,567)	1:94:C:ILE:H	1:94:C:ILE:HG12	19	0.18
(2,567)	1:94:C:ILE:H	1:94:C:ILE:HG12	20	0.18
(2,567)	1:94:C:ILE:H	1:94:C:ILE:HG12	22	0.18
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	9	0.18
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	15	0.18
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	3	0.18
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	5	0.18
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	7	0.18
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	14	0.18
(2,409)	1:48:C:SER:HB2	1:48:C:SER:H	8	0.18
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	3	0.18
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	4	0.18
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	20	0.18
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	6	0.18
(2,330)	1:53:C:ASN:HD21	1:53:C:ASN:H	2	0.18
(2,317)	1:51:C:ASP:HB3	1:50:C:GLU:H	6	0.18
(2,294)	1:45:C:TYR:HB3	1:46:C:GLY:H	20	0.18
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	10	0.18
(2,263)	1:37:C:LYS:HA	1:83:C:ASN:HD22	21	0.18
(2,252)	1:37:C:LYS:H	1:30:C:SER:H	5	0.18
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	19	0.18
(2,250)	1:37:C:LYS:HG2	1:30:C:SER:H	24	0.18
(2,172)	1:21:C:ASN:H	1:22:C:LYS:HG2	11	0.18
(2,124)	1:9:C:GLN:HG2	1:31:C:MET:H	3	0.18
(2,117)	1:6:C:LEU:HD11	1:9:C:GLN:H	11	0.18
(2,116)	1:5:C:ALA:HA	1:6:C:LEU:H	11	0.18
(2,116)	1:5:C:ALA:HA	1:6:C:LEU:H	21	0.18
(2,111)	1:4:C:LYS:HB2	1:2:C:ASN:H	17	0.18
(2,79)	1:66:C:PHE:HB3	1:64:C:TYR:HE1	1	0.18
(2,79)	1:66:C:PHE:HB3	1:64:C:TYR:HE2	1	0.18
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	13	0.18
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	13	0.18
(2,13)	1:41:C:SER:HB2	1:26:C:LYS:HD2	7	0.18
(2,13)	1:41:C:SER:HB2	1:26:C:LYS:HD2	12	0.18
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	6	0.18
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	16	0.18
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	20	0.18
(2,7)	1:29:C:LEU:HD21	1:17:C:ASN:HA	21	0.18
(2,7)	1:29:C:LEU:HD22	1:17:C:ASN:HA	21	0.18
(2,7)	1:29:C:LEU:HD23	1:17:C:ASN:HA	21	0.18
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	10	0.18
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	12	0.18
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	24	0.18
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	10	0.18
(2,1544)	1:94:C:ILE:HA	1:94:C:ILE:HB	15	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1536)	1:94:C:ILE:HD11	1:65:C:THR:HB	3	0.17
(2,1536)	1:94:C:ILE:HD12	1:65:C:THR:HB	3	0.17
(2,1536)	1:94:C:ILE:HD13	1:65:C:THR:HB	3	0.17
(2,1536)	1:94:C:ILE:HD11	1:65:C:THR:HB	6	0.17
(2,1536)	1:94:C:ILE:HD12	1:65:C:THR:HB	6	0.17
(2,1536)	1:94:C:ILE:HD13	1:65:C:THR:HB	6	0.17
(2,1522)	1:94:C:ILE:HG12	1:53:C:ASN:HB2	18	0.17
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	3	0.17
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	9	0.17
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	25	0.17
(2,1399)	1:58:C:VAL:HG21	1:86:C:GLY:HA3	15	0.17
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	14	0.17
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	8	0.17
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	14	0.17
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	24	0.17
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	11	0.17
(2,1272)	1:75:C:ILE:HD11	1:72:C:VAL:HA	10	0.17
(2,1272)	1:75:C:ILE:HD12	1:72:C:VAL:HA	10	0.17
(2,1272)	1:75:C:ILE:HD13	1:72:C:VAL:HA	10	0.17
(2,1232)	1:72:C:VAL:HG21	1:68:C:GLU:HG3	25	0.17
(2,1232)	1:72:C:VAL:HG22	1:68:C:GLU:HG3	25	0.17
(2,1232)	1:72:C:VAL:HG23	1:68:C:GLU:HG3	25	0.17
(2,1206)	1:71:C:THR:HB	1:44:C:GLY:HA3	24	0.17
(2,1205)	1:71:C:THR:HG21	1:44:C:GLY:HA3	7	0.17
(2,1205)	1:71:C:THR:HG21	1:44:C:GLY:HA3	11	0.17
(2,1196)	1:75:C:ILE:HG13	1:70:C:SER:HA	20	0.17
(2,1182)	1:69:C:LYS:HG2	1:68:C:GLU:HA	4	0.17
(2,1182)	1:69:C:LYS:HG2	1:68:C:GLU:HA	15	0.17
(2,1169)	1:68:C:GLU:HG3	1:54:C:TRP:HD1	18	0.17
(2,1128)	1:66:C:PHE:HZ	1:29:C:LEU:HD21	21	0.17
(2,1128)	1:66:C:PHE:HZ	1:29:C:LEU:HD22	21	0.17
(2,1128)	1:66:C:PHE:HZ	1:29:C:LEU:HD23	21	0.17
(2,1104)	1:63:C:VAL:HG11	1:58:C:VAL:HB	18	0.17
(2,1104)	1:63:C:VAL:HG12	1:58:C:VAL:HB	18	0.17
(2,1104)	1:63:C:VAL:HG13	1:58:C:VAL:HB	18	0.17
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	9	0.17
(2,1020)	1:56:C:ILE:HG12	1:64:C:TYR:HB2	20	0.17
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG11	12	0.17
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG12	12	0.17
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG13	12	0.17
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	16	0.17
(2,958)	1:50:C:GLU:HB2	1:52:C:LYS:HG2	22	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG21	5	0.17
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG22	5	0.17
(2,946)	1:49:C:TYR:HB3	1:47:C:ILE:HG23	5	0.17
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	2	0.17
(2,904)	1:45:C:TYR:HB2	1:25:C:GLY:HA3	10	0.17
(2,883)	1:40:C:SER:HB3	1:39:C:THR:HA	5	0.17
(2,883)	1:40:C:SER:HB3	1:39:C:THR:HA	17	0.17
(2,875)	1:40:C:SER:HB3	1:26:C:LYS:HG3	7	0.17
(2,865)	1:38:C:ALA:HA	1:28:C:SER:HB2	24	0.17
(2,742)	1:27:C:LEU:HD11	1:27:C:LEU:HA	8	0.17
(2,742)	1:27:C:LEU:HD12	1:27:C:LEU:HA	8	0.17
(2,742)	1:27:C:LEU:HD13	1:27:C:LEU:HA	8	0.17
(2,742)	1:27:C:LEU:HD11	1:27:C:LEU:HA	21	0.17
(2,742)	1:27:C:LEU:HD12	1:27:C:LEU:HA	21	0.17
(2,742)	1:27:C:LEU:HD13	1:27:C:LEU:HA	21	0.17
(2,727)	1:26:C:LYS:HG3	1:41:C:SER:HA	15	0.17
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	22	0.17
(2,703)	1:24:C:LYS:HB3	1:46:C:GLY:HA3	6	0.17
(2,698)	1:24:C:LYS:HD3	1:24:C:LYS:HA	12	0.17
(2,635)	1:19:C:LYS:HA	1:19:C:LYS:HE2	16	0.17
(2,601)	1:13:C:ILE:HD11	1:16:C:VAL:HB	6	0.17
(2,601)	1:13:C:ILE:HD12	1:16:C:VAL:HB	6	0.17
(2,601)	1:13:C:ILE:HD13	1:16:C:VAL:HB	6	0.17
(2,601)	1:13:C:ILE:HD11	1:16:C:VAL:HB	21	0.17
(2,601)	1:13:C:ILE:HD12	1:16:C:VAL:HB	21	0.17
(2,601)	1:13:C:ILE:HD13	1:16:C:VAL:HB	21	0.17
(2,551)	1:92:C:LYS:H	1:55:C:GLY:H	23	0.17
(2,551)	1:92:C:LYS:H	1:55:C:GLY:H	24	0.17
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	18	0.17
(2,491)	1:80:C:ASN:HD21	1:76:C:SER:HB3	16	0.17
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	12	0.17
(2,446)	1:74:C:ASN:H	1:71:C:THR:H	22	0.17
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	12	0.17
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	14	0.17
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	4	0.17
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	6	0.17
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	8	0.17
(2,422)	1:69:C:LYS:H	1:69:C:LYS:HD2	3	0.17
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	4	0.17
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	14	0.17
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	8	0.17
(2,252)	1:37:C:LYS:H	1:30:C:SER:H	1	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,252)	1:37:C:LYS:H	1:30:C:SER:H	15	0.17
(2,250)	1:37:C:LYS:HG2	1:30:C:SER:H	19	0.17
(2,215)	1:29:C:LEU:HG	1:29:C:LEU:H	16	0.17
(2,215)	1:29:C:LEU:HG	1:29:C:LEU:H	17	0.17
(2,189)	1:25:C:GLY:H	1:24:C:LYS:HD2	13	0.17
(2,184)	1:24:C:LYS:H	1:23:C:GLY:H	2	0.17
(2,184)	1:24:C:LYS:H	1:23:C:GLY:H	11	0.17
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	14	0.17
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	22	0.17
(2,116)	1:5:C:ALA:HA	1:6:C:LEU:H	2	0.17
(2,116)	1:5:C:ALA:HA	1:6:C:LEU:H	16	0.17
(2,116)	1:5:C:ALA:HA	1:6:C:LEU:H	17	0.17
(2,116)	1:5:C:ALA:HA	1:6:C:LEU:H	18	0.17
(2,16)	1:25:C:GLY:HA2	1:22:C:LYS:HE2	1	0.17
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	8	0.17
(2,6)	1:29:C:LEU:HD11	1:17:C:ASN:HA	18	0.17
(2,6)	1:29:C:LEU:HD12	1:17:C:ASN:HA	18	0.17
(2,6)	1:29:C:LEU:HD13	1:17:C:ASN:HA	18	0.17
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	7	0.17
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	8	0.17
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	3	0.17
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	18	0.16
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	18	0.16
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	18	0.16
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	24	0.16
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	24	0.16
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	24	0.16
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	1	0.16
(2,1441)	1:85:C:LYS:HG2	1:86:C:GLY:HA2	16	0.16
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	2	0.16
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	13	0.16
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	18	0.16
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	21	0.16
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	23	0.16
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	23	0.16
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	23	0.16
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	23	0.16
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	6	0.16
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	6	0.16
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	6	0.16
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	25	0.16
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	25	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	25	0.16
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	22	0.16
(2,1316)	1:79:C:ILE:HG21	1:37:C:LYS:HA	5	0.16
(2,1316)	1:79:C:ILE:HG22	1:37:C:LYS:HA	5	0.16
(2,1316)	1:79:C:ILE:HG23	1:37:C:LYS:HA	5	0.16
(2,1316)	1:79:C:ILE:HG21	1:37:C:LYS:HA	17	0.16
(2,1316)	1:79:C:ILE:HG22	1:37:C:LYS:HA	17	0.16
(2,1316)	1:79:C:ILE:HG23	1:37:C:LYS:HA	17	0.16
(2,1308)	1:78:C:ASP:HB3	1:82:C:LEU:HG	21	0.16
(2,1305)	1:78:C:ASP:HA	1:81:C:LYS:HD2	24	0.16
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	15	0.16
(2,1226)	1:40:C:SER:HA	1:27:C:LEU:HB3	10	0.16
(2,1220)	1:72:C:VAL:HG11	1:25:C:GLY:HA3	17	0.16
(2,1220)	1:72:C:VAL:HG12	1:25:C:GLY:HA3	17	0.16
(2,1220)	1:72:C:VAL:HG13	1:25:C:GLY:HA3	17	0.16
(2,1220)	1:72:C:VAL:HG11	1:25:C:GLY:HA3	19	0.16
(2,1220)	1:72:C:VAL:HG12	1:25:C:GLY:HA3	19	0.16
(2,1220)	1:72:C:VAL:HG13	1:25:C:GLY:HA3	19	0.16
(2,1216)	1:71:C:THR:HA	1:46:C:GLY:HA2	9	0.16
(2,1211)	1:71:C:THR:HA	1:46:C:GLY:HA3	22	0.16
(2,1211)	1:71:C:THR:HA	1:46:C:GLY:HA3	24	0.16
(2,1208)	1:71:C:THR:HG21	1:44:C:GLY:HA2	24	0.16
(2,1208)	1:71:C:THR:HG22	1:44:C:GLY:HA2	24	0.16
(2,1208)	1:71:C:THR:HG23	1:44:C:GLY:HA2	24	0.16
(2,1206)	1:71:C:THR:HB	1:44:C:GLY:HA3	17	0.16
(2,1197)	1:70:C:SER:HB3	1:67:C:ASN:HB3	4	0.16
(2,1166)	1:68:C:GLU:HB3	1:52:C:LYS:HB3	6	0.16
(2,1079)	1:62:C:LYS:HB2	1:61:C:GLU:HG2	2	0.16
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	3	0.16
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	13	0.16
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	2	0.16
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	6	0.16
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	14	0.16
(2,1007)	1:56:C:ILE:HG12	1:54:C:TRP:HZ3	24	0.16
(2,1001)	1:55:C:GLY:HA3	1:54:C:TRP:HB3	8	0.16
(2,1001)	1:55:C:GLY:HA3	1:54:C:TRP:HB3	20	0.16
(2,973)	1:52:C:LYS:HD2	1:51:C:ASP:HB2	3	0.16
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	16	0.16
(2,967)	1:68:C:GLU:HG2	1:52:C:LYS:HB3	18	0.16
(2,966)	1:51:C:ASP:HA	1:52:C:LYS:HD2	2	0.16
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	4	0.16
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,942)	1:48:C:SER:HA	1:47:C:ILE:HB	21	0.16
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	19	0.16
(2,897)	1:43:C:ALA:HB1	1:41:C:SER:HA	20	0.16
(2,897)	1:43:C:ALA:HB2	1:41:C:SER:HA	20	0.16
(2,897)	1:43:C:ALA:HB3	1:41:C:SER:HA	20	0.16
(2,876)	1:40:C:SER:HB2	1:26:C:LYS:HG3	18	0.16
(2,865)	1:38:C:ALA:HA	1:28:C:SER:HB2	23	0.16
(2,853)	1:37:C:LYS:HA	1:37:C:LYS:HD2	15	0.16
(2,816)	1:32:C:ASN:HB2	1:35:C:GLN:HB2	5	0.16
(2,782)	1:36:C:LEU:HD22	1:29:C:LEU:HB2	24	0.16
(2,756)	1:27:C:LEU:HG	1:29:C:LEU:HA	5	0.16
(2,742)	1:27:C:LEU:HD11	1:27:C:LEU:HA	12	0.16
(2,742)	1:27:C:LEU:HD12	1:27:C:LEU:HA	12	0.16
(2,742)	1:27:C:LEU:HD13	1:27:C:LEU:HA	12	0.16
(2,727)	1:26:C:LYS:HG3	1:41:C:SER:HA	2	0.16
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	20	0.16
(2,704)	1:25:C:GLY:HA3	1:26:C:LYS:HG2	2	0.16
(2,704)	1:25:C:GLY:HA3	1:26:C:LYS:HG2	21	0.16
(2,607)	1:15:C:SER:HB2	1:15:C:SER:HA	12	0.16
(2,601)	1:13:C:ILE:HD11	1:16:C:VAL:HB	1	0.16
(2,601)	1:13:C:ILE:HD12	1:16:C:VAL:HB	1	0.16
(2,601)	1:13:C:ILE:HD13	1:16:C:VAL:HB	1	0.16
(2,601)	1:13:C:ILE:HD11	1:16:C:VAL:HB	15	0.16
(2,601)	1:13:C:ILE:HD12	1:16:C:VAL:HB	15	0.16
(2,601)	1:13:C:ILE:HD13	1:16:C:VAL:HB	15	0.16
(2,567)	1:94:C:ILE:H	1:94:C:ILE:HG12	7	0.16
(2,551)	1:92:C:LYS:H	1:55:C:GLY:H	6	0.16
(2,460)	1:75:C:ILE:HG12	1:70:C:SER:H	11	0.16
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	23	0.16
(2,435)	1:72:C:VAL:HG11	1:73:C:GLY:H	23	0.16
(2,435)	1:72:C:VAL:HG12	1:73:C:GLY:H	23	0.16
(2,435)	1:72:C:VAL:HG13	1:73:C:GLY:H	23	0.16
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	19	0.16
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	24	0.16
(2,390)	1:65:C:THR:HG21	1:55:C:GLY:H	15	0.16
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	12	0.16
(2,320)	1:51:C:ASP:H	1:51:C:ASP:HB2	13	0.16
(2,314)	1:50:C:GLU:HB2	1:51:C:ASP:H	15	0.16
(2,273)	1:40:C:SER:H	1:39:C:THR:HG1	5	0.16
(2,273)	1:40:C:SER:H	1:39:C:THR:HG1	23	0.16
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	23	0.16
(2,215)	1:29:C:LEU:HG	1:29:C:LEU:H	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	21	0.16
(2,189)	1:25:C:GLY:H	1:24:C:LYS:HD2	14	0.16
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	6	0.16
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	14	0.16
(2,116)	1:5:C:ALA:HA	1:6:C:LEU:H	9	0.16
(2,88)	1:66:C:PHE:HE1	1:75:C:ILE:HG21	25	0.16
(2,88)	1:66:C:PHE:HE1	1:75:C:ILE:HG22	25	0.16
(2,88)	1:66:C:PHE:HE1	1:75:C:ILE:HG23	25	0.16
(2,88)	1:66:C:PHE:HE2	1:75:C:ILE:HG21	25	0.16
(2,88)	1:66:C:PHE:HE2	1:75:C:ILE:HG22	25	0.16
(2,88)	1:66:C:PHE:HE2	1:75:C:ILE:HG23	25	0.16
(2,79)	1:66:C:PHE:HB3	1:64:C:TYR:HE1	19	0.16
(2,79)	1:66:C:PHE:HB3	1:64:C:TYR:HE2	19	0.16
(2,59)	1:57:C:PHE:HD1	1:62:C:LYS:HB2	4	0.16
(2,59)	1:57:C:PHE:HD2	1:62:C:LYS:HB2	4	0.16
(2,39)	1:54:C:TRP:HH2	1:16:C:VAL:HG11	6	0.16
(2,39)	1:54:C:TRP:HH2	1:16:C:VAL:HG12	6	0.16
(2,39)	1:54:C:TRP:HH2	1:16:C:VAL:HG13	6	0.16
(2,38)	1:49:C:TYR:HD1	1:49:C:TYR:HB3	18	0.16
(2,38)	1:49:C:TYR:HD2	1:49:C:TYR:HB3	18	0.16
(2,27)	1:20:C:LEU:HD11	1:54:C:TRP:HE3	20	0.16
(2,27)	1:20:C:LEU:HD12	1:54:C:TRP:HE3	20	0.16
(2,27)	1:20:C:LEU:HD13	1:54:C:TRP:HE3	20	0.16
(2,18)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	1	0.16
(2,13)	1:41:C:SER:HB2	1:26:C:LYS:HD2	10	0.16
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	17	0.16
(2,7)	1:29:C:LEU:HD21	1:17:C:ASN:HA	22	0.16
(2,7)	1:29:C:LEU:HD22	1:17:C:ASN:HA	22	0.16
(2,7)	1:29:C:LEU:HD23	1:17:C:ASN:HA	22	0.16
(1,18)	1:68:C:GLU:H	1:52:C:LYS:O	14	0.16
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	14	0.16
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	7	0.15
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	10	0.15
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	20	0.15
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	7	0.15
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	7	0.15
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	7	0.15
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	18	0.15
(2,1362)	1:82:C:LEU:HB3	1:79:C:ILE:HA	1	0.15
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	4	0.15
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	11	0.15
(2,1347)	1:80:C:ASN:HA	1:36:C:LEU:HB2	14	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1308)	1:78:C:ASP:HB3	1:82:C:LEU:HG	9	0.15
(2,1308)	1:78:C:ASP:HB3	1:82:C:LEU:HG	19	0.15
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	4	0.15
(2,1221)	1:72:C:VAL:HB	1:40:C:SER:HB3	4	0.15
(2,1220)	1:72:C:VAL:HG11	1:25:C:GLY:HA3	9	0.15
(2,1220)	1:72:C:VAL:HG12	1:25:C:GLY:HA3	9	0.15
(2,1220)	1:72:C:VAL:HG13	1:25:C:GLY:HA3	9	0.15
(2,1211)	1:71:C:THR:HA	1:46:C:GLY:HA3	12	0.15
(2,1208)	1:71:C:THR:HG21	1:44:C:GLY:HA2	25	0.15
(2,1208)	1:71:C:THR:HG22	1:44:C:GLY:HA2	25	0.15
(2,1208)	1:71:C:THR:HG23	1:44:C:GLY:HA2	25	0.15
(2,1182)	1:69:C:LYS:HG2	1:68:C:GLU:HA	6	0.15
(2,1167)	1:68:C:GLU:HG2	1:52:C:LYS:HG3	3	0.15
(2,1166)	1:68:C:GLU:HB3	1:52:C:LYS:HB3	17	0.15
(2,1079)	1:62:C:LYS:HB2	1:61:C:GLU:HG2	16	0.15
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	24	0.15
(2,1026)	1:56:C:ILE:HA	1:91:C:ILE:HG13	14	0.15
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	7	0.15
(2,1001)	1:55:C:GLY:HA3	1:54:C:TRP:HB3	2	0.15
(2,1001)	1:55:C:GLY:HA3	1:54:C:TRP:HB3	17	0.15
(2,1000)	1:55:C:GLY:HA3	1:54:C:TRP:HZ3	15	0.15
(2,959)	1:50:C:GLU:HA	1:69:C:LYS:HE2	24	0.15
(2,939)	1:48:C:SER:HA	1:24:C:LYS:HD3	8	0.15
(2,897)	1:43:C:ALA:HB1	1:41:C:SER:HA	4	0.15
(2,897)	1:43:C:ALA:HB2	1:41:C:SER:HA	4	0.15
(2,897)	1:43:C:ALA:HB3	1:41:C:SER:HA	4	0.15
(2,897)	1:43:C:ALA:HB1	1:41:C:SER:HA	14	0.15
(2,897)	1:43:C:ALA:HB2	1:41:C:SER:HA	14	0.15
(2,897)	1:43:C:ALA:HB3	1:41:C:SER:HA	14	0.15
(2,889)	1:40:C:SER:HA	1:72:C:VAL:HB	9	0.15
(2,889)	1:40:C:SER:HA	1:72:C:VAL:HB	12	0.15
(2,889)	1:40:C:SER:HA	1:72:C:VAL:HB	13	0.15
(2,889)	1:40:C:SER:HA	1:72:C:VAL:HB	17	0.15
(2,883)	1:40:C:SER:HB3	1:39:C:THR:HA	7	0.15
(2,805)	1:30:C:SER:HA	1:13:C:ILE:HG21	1	0.15
(2,805)	1:30:C:SER:HA	1:13:C:ILE:HG22	1	0.15
(2,805)	1:30:C:SER:HA	1:13:C:ILE:HG23	1	0.15
(2,704)	1:25:C:GLY:HA3	1:26:C:LYS:HG2	4	0.15
(2,703)	1:24:C:LYS:HB3	1:46:C:GLY:HA3	8	0.15
(2,698)	1:24:C:LYS:HD3	1:24:C:LYS:HA	18	0.15
(2,691)	1:22:C:LYS:HE2	1:48:C:SER:HB2	12	0.15
(2,689)	1:24:C:LYS:HB3	1:47:C:ILE:HB	23	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,664)	1:20:C:LEU:HD13	1:93:C:GLN:HG2	24	0.15
(2,610)	1:16:C:VAL:HB	1:13:C:ILE:HA	19	0.15
(2,607)	1:15:C:SER:HB2	1:15:C:SER:HA	18	0.15
(2,603)	1:13:C:ILE:HD13	1:9:C:GLN:HA	20	0.15
(2,601)	1:13:C:ILE:HD11	1:16:C:VAL:HB	8	0.15
(2,601)	1:13:C:ILE:HD12	1:16:C:VAL:HB	8	0.15
(2,601)	1:13:C:ILE:HD13	1:16:C:VAL:HB	8	0.15
(2,601)	1:13:C:ILE:HD11	1:16:C:VAL:HB	24	0.15
(2,601)	1:13:C:ILE:HD12	1:16:C:VAL:HB	24	0.15
(2,601)	1:13:C:ILE:HD13	1:16:C:VAL:HB	24	0.15
(2,551)	1:92:C:LYS:H	1:55:C:GLY:H	3	0.15
(2,551)	1:92:C:LYS:H	1:55:C:GLY:H	11	0.15
(2,551)	1:92:C:LYS:H	1:55:C:GLY:H	15	0.15
(2,551)	1:92:C:LYS:H	1:55:C:GLY:H	17	0.15
(2,506)	1:82:C:LEU:HB2	1:83:C:ASN:H	3	0.15
(2,506)	1:82:C:LEU:HB2	1:83:C:ASN:H	17	0.15
(2,506)	1:82:C:LEU:HB2	1:83:C:ASN:H	22	0.15
(2,476)	1:77:C:ASN:HB2	1:80:C:ASN:HD22	24	0.15
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	10	0.15
(2,446)	1:74:C:ASN:H	1:71:C:THR:H	2	0.15
(2,446)	1:74:C:ASN:H	1:71:C:THR:H	13	0.15
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	11	0.15
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	18	0.15
(2,422)	1:69:C:LYS:H	1:69:C:LYS:HD2	24	0.15
(2,409)	1:48:C:SER:HB2	1:48:C:SER:H	3	0.15
(2,409)	1:48:C:SER:HB2	1:48:C:SER:H	25	0.15
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	5	0.15
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	15	0.15
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	18	0.15
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	3	0.15
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	18	0.15
(2,330)	1:53:C:ASN:HD21	1:53:C:ASN:H	23	0.15
(2,326)	1:52:C:LYS:HG2	1:53:C:ASN:H	4	0.15
(2,313)	1:50:C:GLU:HB2	1:50:C:GLU:H	12	0.15
(2,313)	1:50:C:GLU:HB2	1:50:C:GLU:H	22	0.15
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	21	0.15
(2,263)	1:37:C:LYS:HA	1:83:C:ASN:HD22	10	0.15
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	3	0.15
(2,233)	1:33:C:GLY:HA3	1:34:C:ASN:H	11	0.15
(2,130)	1:15:C:SER:H	1:11:C:ASN:HA	25	0.15
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	5	0.15
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	12	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	20	0.15
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	7	0.15
(2,78)	1:66:C:PHE:HE1	1:56:C:ILE:HG13	1	0.15
(2,78)	1:66:C:PHE:HE2	1:56:C:ILE:HG13	1	0.15
(2,45)	1:54:C:TRP:HZ2	1:92:C:LYS:HA	6	0.15
(2,38)	1:49:C:TYR:HD1	1:49:C:TYR:HB3	3	0.15
(2,38)	1:49:C:TYR:HD2	1:49:C:TYR:HB3	3	0.15
(2,38)	1:49:C:TYR:HD1	1:49:C:TYR:HB3	4	0.15
(2,38)	1:49:C:TYR:HD2	1:49:C:TYR:HB3	4	0.15
(2,38)	1:49:C:TYR:HD1	1:49:C:TYR:HB3	8	0.15
(2,38)	1:49:C:TYR:HD2	1:49:C:TYR:HB3	8	0.15
(2,38)	1:49:C:TYR:HD1	1:49:C:TYR:HB3	11	0.15
(2,38)	1:49:C:TYR:HD2	1:49:C:TYR:HB3	11	0.15
(2,38)	1:49:C:TYR:HD1	1:49:C:TYR:HB3	22	0.15
(2,38)	1:49:C:TYR:HD2	1:49:C:TYR:HB3	22	0.15
(2,38)	1:49:C:TYR:HD1	1:49:C:TYR:HB3	24	0.15
(2,38)	1:49:C:TYR:HD2	1:49:C:TYR:HB3	24	0.15
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	4	0.15
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	4	0.15
(2,18)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	15	0.15
(2,17)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	3	0.15
(2,16)	1:25:C:GLY:HA2	1:22:C:LYS:HE2	15	0.15
(2,16)	1:25:C:GLY:HA2	1:22:C:LYS:HE2	17	0.15
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	9	0.15
(2,6)	1:29:C:LEU:HD11	1:17:C:ASN:HA	12	0.15
(2,6)	1:29:C:LEU:HD12	1:17:C:ASN:HA	12	0.15
(2,6)	1:29:C:LEU:HD13	1:17:C:ASN:HA	12	0.15
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	9	0.15
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	21	0.15
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	24	0.15
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	9	0.14
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	9	0.14
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	9	0.14
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	17	0.14
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	17	0.14
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	17	0.14
(2,1536)	1:94:C:ILE:HD11	1:65:C:THR:HB	12	0.14
(2,1536)	1:94:C:ILE:HD12	1:65:C:THR:HB	12	0.14
(2,1536)	1:94:C:ILE:HD13	1:65:C:THR:HB	12	0.14
(2,1533)	1:94:C:ILE:HG21	1:55:C:GLY:HA2	5	0.14
(2,1533)	1:94:C:ILE:HG22	1:55:C:GLY:HA2	5	0.14
(2,1533)	1:94:C:ILE:HG23	1:55:C:GLY:HA2	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1533)	1:94:C:ILE:HG21	1:55:C:GLY:HA2	25	0.14
(2,1533)	1:94:C:ILE:HG22	1:55:C:GLY:HA2	25	0.14
(2,1533)	1:94:C:ILE:HG23	1:55:C:GLY:HA2	25	0.14
(2,1531)	1:94:C:ILE:HG13	1:54:C:TRP:HA	5	0.14
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	23	0.14
(2,1467)	1:66:C:PHE:HE2	1:91:C:ILE:HD12	12	0.14
(2,1467)	1:66:C:PHE:HE2	1:91:C:ILE:HD12	13	0.14
(2,1467)	1:66:C:PHE:HE2	1:91:C:ILE:HD11	22	0.14
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	4	0.14
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	19	0.14
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	21	0.14
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	21	0.14
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	21	0.14
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	5	0.14
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	17	0.14
(2,1362)	1:82:C:LEU:HB3	1:79:C:ILE:HA	11	0.14
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	2	0.14
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	6	0.14
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	18	0.14
(2,1308)	1:78:C:ASP:HB3	1:82:C:LEU:HG	11	0.14
(2,1308)	1:78:C:ASP:HB3	1:82:C:LEU:HG	22	0.14
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	5	0.14
(2,1248)	1:74:C:ASN:HB2	1:70:C:SER:HB2	25	0.14
(2,1211)	1:71:C:THR:HA	1:46:C:GLY:HA3	21	0.14
(2,1204)	1:71:C:THR:HG23	1:44:C:GLY:HA2	9	0.14
(2,1182)	1:69:C:LYS:HG2	1:68:C:GLU:HA	13	0.14
(2,1178)	1:24:C:LYS:HB3	1:47:C:ILE:HA	13	0.14
(2,1080)	1:62:C:LYS:HB2	1:61:C:GLU:HG3	18	0.14
(2,1044)	1:57:C:PHE:HB3	1:90:C:GLU:HB3	24	0.14
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	8	0.14
(2,1022)	1:56:C:ILE:HG13	1:90:C:GLU:HB2	11	0.14
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG11	4	0.14
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG12	4	0.14
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG13	4	0.14
(2,1007)	1:56:C:ILE:HG12	1:54:C:TRP:HZ3	4	0.14
(2,1001)	1:55:C:GLY:HA3	1:54:C:TRP:HB3	6	0.14
(2,999)	1:55:C:GLY:HA2	1:54:C:TRP:HZ3	11	0.14
(2,970)	1:51:C:ASP:HA	1:69:C:LYS:HG3	19	0.14
(2,966)	1:51:C:ASP:HA	1:52:C:LYS:HD2	6	0.14
(2,966)	1:51:C:ASP:HA	1:52:C:LYS:HD2	25	0.14
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	21	0.14
(2,939)	1:48:C:SER:HA	1:24:C:LYS:HD3	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,939)	1:48:C:SER:HA	1:24:C:LYS:HD3	4	0.14
(2,918)	1:46:C:GLY:HA3	1:47:C:ILE:HD11	19	0.14
(2,918)	1:46:C:GLY:HA3	1:47:C:ILE:HD12	19	0.14
(2,918)	1:46:C:GLY:HA3	1:47:C:ILE:HD13	19	0.14
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD11	12	0.14
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD12	12	0.14
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD13	12	0.14
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD11	25	0.14
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD12	25	0.14
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD13	25	0.14
(2,904)	1:45:C:TYR:HB2	1:25:C:GLY:HA3	7	0.14
(2,897)	1:43:C:ALA:HB1	1:41:C:SER:HA	18	0.14
(2,897)	1:43:C:ALA:HB2	1:41:C:SER:HA	18	0.14
(2,897)	1:43:C:ALA:HB3	1:41:C:SER:HA	18	0.14
(2,897)	1:43:C:ALA:HB1	1:41:C:SER:HA	19	0.14
(2,897)	1:43:C:ALA:HB2	1:41:C:SER:HA	19	0.14
(2,897)	1:43:C:ALA:HB3	1:41:C:SER:HA	19	0.14
(2,897)	1:43:C:ALA:HB1	1:41:C:SER:HA	23	0.14
(2,897)	1:43:C:ALA:HB2	1:41:C:SER:HA	23	0.14
(2,897)	1:43:C:ALA:HB3	1:41:C:SER:HA	23	0.14
(2,889)	1:40:C:SER:HA	1:72:C:VAL:HB	2	0.14
(2,889)	1:40:C:SER:HA	1:72:C:VAL:HB	4	0.14
(2,819)	1:35:C:GLN:HB2	1:32:C:ASN:HB3	8	0.14
(2,805)	1:30:C:SER:HA	1:13:C:ILE:HG21	10	0.14
(2,805)	1:30:C:SER:HA	1:13:C:ILE:HG22	10	0.14
(2,805)	1:30:C:SER:HA	1:13:C:ILE:HG23	10	0.14
(2,756)	1:36:C:LEU:HD12	1:29:C:LEU:HA	14	0.14
(2,704)	1:25:C:GLY:HA3	1:26:C:LYS:HG2	16	0.14
(2,660)	1:20:C:LEU:HD11	1:54:C:TRP:HE3	19	0.14
(2,660)	1:20:C:LEU:HD12	1:54:C:TRP:HE3	19	0.14
(2,660)	1:20:C:LEU:HD13	1:54:C:TRP:HE3	19	0.14
(2,601)	1:13:C:ILE:HD11	1:16:C:VAL:HB	19	0.14
(2,601)	1:13:C:ILE:HD12	1:16:C:VAL:HB	19	0.14
(2,601)	1:13:C:ILE:HD13	1:16:C:VAL:HB	19	0.14
(2,588)	1:13:C:ILE:HG12	1:12:C:SER:HB2	17	0.14
(2,570)	1:4:C:LYS:HB3	1:2:C:ASN:HA	5	0.14
(2,567)	1:94:C:ILE:H	1:94:C:ILE:HG12	16	0.14
(2,567)	1:94:C:ILE:H	1:94:C:ILE:HG12	23	0.14
(2,551)	1:92:C:LYS:H	1:55:C:GLY:H	1	0.14
(2,551)	1:92:C:LYS:H	1:55:C:GLY:H	10	0.14
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	25	0.14
(2,489)	1:80:C:ASN:HD22	1:38:C:ALA:H	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	6	0.14
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	12	0.14
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	24	0.14
(2,422)	1:69:C:LYS:H	1:69:C:LYS:HD2	15	0.14
(2,413)	1:68:C:GLU:H	1:68:C:GLU:HG2	18	0.14
(2,397)	1:66:C:PHE:H	1:54:C:TRP:H	23	0.14
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	13	0.14
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	7	0.14
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	11	0.14
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	13	0.14
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	20	0.14
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	21	0.14
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	25	0.14
(2,326)	1:52:C:LYS:HG2	1:53:C:ASN:H	3	0.14
(2,273)	1:40:C:SER:H	1:39:C:THR:HG1	24	0.14
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	13	0.14
(2,250)	1:37:C:LYS:HG2	1:30:C:SER:H	25	0.14
(2,233)	1:33:C:GLY:HA3	1:34:C:ASN:H	2	0.14
(2,233)	1:33:C:GLY:HA3	1:34:C:ASN:H	4	0.14
(2,215)	1:29:C:LEU:HG	1:29:C:LEU:H	10	0.14
(2,215)	1:29:C:LEU:HG	1:29:C:LEU:H	11	0.14
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	22	0.14
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	24	0.14
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	25	0.14
(2,187)	1:24:C:LYS:HD2	1:24:C:LYS:H	9	0.14
(2,184)	1:24:C:LYS:H	1:23:C:GLY:H	10	0.14
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	8	0.14
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	4	0.14
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	11	0.14
(2,116)	1:5:C:ALA:HA	1:6:C:LEU:H	23	0.14
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	1	0.14
(2,87)	1:66:C:PHE:HZ	1:72:C:VAL:HG11	6	0.14
(2,87)	1:66:C:PHE:HZ	1:72:C:VAL:HG12	6	0.14
(2,87)	1:66:C:PHE:HZ	1:72:C:VAL:HG13	6	0.14
(2,45)	1:54:C:TRP:HZ2	1:92:C:LYS:HA	8	0.14
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG21	7	0.14
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG22	7	0.14
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG23	7	0.14
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	4	0.14
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	7	0.14
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	22	0.14
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	24	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,38)	1:49:C:TYR:HD1	1:49:C:TYR:HB3	2	0.14
(2,38)	1:49:C:TYR:HD2	1:49:C:TYR:HB3	2	0.14
(2,38)	1:49:C:TYR:HD1	1:49:C:TYR:HB3	13	0.14
(2,38)	1:49:C:TYR:HD2	1:49:C:TYR:HB3	13	0.14
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	2	0.14
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	2	0.14
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	18	0.14
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	18	0.14
(2,34)	1:45:C:TYR:HD1	1:45:C:TYR:HB3	16	0.14
(2,34)	1:45:C:TYR:HD2	1:45:C:TYR:HB3	16	0.14
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	3	0.14
(2,6)	1:29:C:LEU:HD11	1:17:C:ASN:HA	8	0.14
(2,6)	1:29:C:LEU:HD12	1:17:C:ASN:HA	8	0.14
(2,6)	1:29:C:LEU:HD13	1:17:C:ASN:HA	8	0.14
(1,18)	1:68:C:GLU:H	1:52:C:LYS:O	1	0.14
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	4	0.14
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	17	0.14
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	18	0.14
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	23	0.14
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	14	0.13
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	14	0.13
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	14	0.13
(2,1541)	1:94:C:ILE:HD11	1:93:C:GLN:HB2	11	0.13
(2,1541)	1:94:C:ILE:HD12	1:93:C:GLN:HB2	11	0.13
(2,1541)	1:94:C:ILE:HD13	1:93:C:GLN:HB2	11	0.13
(2,1441)	1:85:C:LYS:HG2	1:86:C:GLY:HA2	12	0.13
(2,1441)	1:85:C:LYS:HG2	1:86:C:GLY:HA2	18	0.13
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	1	0.13
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	5	0.13
(2,1429)	1:88:C:TYR:HA	1:87:C:PRO:HG2	16	0.13
(2,1409)	1:86:C:GLY:HA2	1:84:C:ILE:HG21	25	0.13
(2,1409)	1:86:C:GLY:HA2	1:84:C:ILE:HG22	25	0.13
(2,1409)	1:86:C:GLY:HA2	1:84:C:ILE:HG23	25	0.13
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	8	0.13
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	8	0.13
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	8	0.13
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	10	0.13
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	10	0.13
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	10	0.13
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	1	0.13
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	5	0.13
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	7	0.13
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	7	0.13
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	10	0.13
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	10	0.13
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	10	0.13
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	12	0.13
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	12	0.13
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	12	0.13
(2,1362)	1:82:C:LEU:HB3	1:79:C:ILE:HA	10	0.13
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	9	0.13
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	16	0.13
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	20	0.13
(2,1316)	1:79:C:ILE:HG21	1:37:C:LYS:HA	10	0.13
(2,1316)	1:79:C:ILE:HG22	1:37:C:LYS:HA	10	0.13
(2,1316)	1:79:C:ILE:HG23	1:37:C:LYS:HA	10	0.13
(2,1316)	1:79:C:ILE:HG21	1:37:C:LYS:HA	22	0.13
(2,1316)	1:79:C:ILE:HG22	1:37:C:LYS:HA	22	0.13
(2,1316)	1:79:C:ILE:HG23	1:37:C:LYS:HA	22	0.13
(2,1313)	1:79:C:ILE:HD11	1:36:C:LEU:HG	1	0.13
(2,1313)	1:79:C:ILE:HD12	1:36:C:LEU:HG	1	0.13
(2,1313)	1:79:C:ILE:HD13	1:36:C:LEU:HG	1	0.13
(2,1308)	1:78:C:ASP:HB3	1:82:C:LEU:HG	2	0.13
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	1	0.13
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	3	0.13
(2,1272)	1:75:C:ILE:HD11	1:72:C:VAL:HA	23	0.13
(2,1272)	1:75:C:ILE:HD12	1:72:C:VAL:HA	23	0.13
(2,1272)	1:75:C:ILE:HD13	1:72:C:VAL:HA	23	0.13
(2,1216)	1:71:C:THR:HA	1:46:C:GLY:HA2	6	0.13
(2,1211)	1:71:C:THR:HA	1:46:C:GLY:HA3	9	0.13
(2,1206)	1:71:C:THR:HB	1:44:C:GLY:HA3	14	0.13
(2,1206)	1:71:C:THR:HB	1:44:C:GLY:HA3	25	0.13
(2,1197)	1:70:C:SER:HB3	1:67:C:ASN:HB3	20	0.13
(2,1182)	1:69:C:LYS:HG2	1:68:C:GLU:HA	9	0.13
(2,1179)	1:48:C:SER:HA	1:24:C:LYS:HD2	20	0.13
(2,1164)	1:68:C:GLU:HB2	1:52:C:LYS:HB2	5	0.13
(2,1112)	1:64:C:TYR:HB3	1:56:C:ILE:HD11	13	0.13
(2,1112)	1:64:C:TYR:HB3	1:56:C:ILE:HD12	13	0.13
(2,1112)	1:64:C:TYR:HB3	1:56:C:ILE:HD13	13	0.13
(2,1112)	1:64:C:TYR:HB3	1:56:C:ILE:HD11	20	0.13
(2,1112)	1:64:C:TYR:HB3	1:56:C:ILE:HD12	20	0.13
(2,1112)	1:64:C:TYR:HB3	1:56:C:ILE:HD13	20	0.13
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	16	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1064)	1:58:C:VAL:HG11	1:89:C:ILE:HA	5	0.13
(2,1064)	1:58:C:VAL:HG12	1:89:C:ILE:HA	5	0.13
(2,1064)	1:58:C:VAL:HG13	1:89:C:ILE:HA	5	0.13
(2,1052)	1:57:C:PHE:HE1	1:92:C:LYS:HE2	12	0.13
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	12	0.13
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG21	14	0.13
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG22	14	0.13
(2,1018)	1:56:C:ILE:HG12	1:63:C:VAL:HG23	14	0.13
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG11	11	0.13
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG12	11	0.13
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG13	11	0.13
(2,972)	1:52:C:LYS:HD2	1:51:C:ASP:HB3	19	0.13
(2,970)	1:51:C:ASP:HA	1:69:C:LYS:HG3	2	0.13
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	11	0.13
(2,958)	1:50:C:GLU:HB2	1:52:C:LYS:HG2	5	0.13
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	7	0.13
(2,938)	1:48:C:SER:HB2	1:24:C:LYS:HD2	24	0.13
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD11	18	0.13
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD12	18	0.13
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD13	18	0.13
(2,897)	1:43:C:ALA:HB1	1:41:C:SER:HA	11	0.13
(2,897)	1:43:C:ALA:HB2	1:41:C:SER:HA	11	0.13
(2,897)	1:43:C:ALA:HB3	1:41:C:SER:HA	11	0.13
(2,897)	1:43:C:ALA:HB1	1:41:C:SER:HA	12	0.13
(2,897)	1:43:C:ALA:HB2	1:41:C:SER:HA	12	0.13
(2,897)	1:43:C:ALA:HB3	1:41:C:SER:HA	12	0.13
(2,889)	1:40:C:SER:HA	1:72:C:VAL:HB	5	0.13
(2,883)	1:40:C:SER:HB3	1:39:C:THR:HA	8	0.13
(2,883)	1:40:C:SER:HB3	1:39:C:THR:HA	15	0.13
(2,819)	1:35:C:GLN:HB2	1:32:C:ASN:HB3	19	0.13
(2,816)	1:32:C:ASN:HB2	1:35:C:GLN:HB2	16	0.13
(2,771)	1:27:C:LEU:HD21	1:75:C:ILE:HB	21	0.13
(2,771)	1:27:C:LEU:HD22	1:75:C:ILE:HB	21	0.13
(2,771)	1:27:C:LEU:HD23	1:75:C:ILE:HB	21	0.13
(2,742)	1:27:C:LEU:HD11	1:27:C:LEU:HA	5	0.13
(2,742)	1:27:C:LEU:HD12	1:27:C:LEU:HA	5	0.13
(2,742)	1:27:C:LEU:HD13	1:27:C:LEU:HA	5	0.13
(2,729)	1:26:C:LYS:HG3	1:41:C:SER:HB2	23	0.13
(2,691)	1:22:C:LYS:HE2	1:48:C:SER:HB2	15	0.13
(2,635)	1:19:C:LYS:HA	1:19:C:LYS:HE2	25	0.13
(2,618)	1:16:C:VAL:HG21	1:20:C:LEU:HG	3	0.13
(2,618)	1:16:C:VAL:HG22	1:20:C:LEU:HG	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,618)	1:16:C:VAL:HG23	1:20:C:LEU:HG	3	0.13
(2,609)	1:16:C:VAL:HG21	1:13:C:ILE:HB	4	0.13
(2,609)	1:16:C:VAL:HG22	1:13:C:ILE:HB	4	0.13
(2,609)	1:16:C:VAL:HG23	1:13:C:ILE:HB	4	0.13
(2,607)	1:15:C:SER:HB2	1:15:C:SER:HA	24	0.13
(2,601)	1:13:C:ILE:HD11	1:16:C:VAL:HB	10	0.13
(2,601)	1:13:C:ILE:HD12	1:16:C:VAL:HB	10	0.13
(2,601)	1:13:C:ILE:HD13	1:16:C:VAL:HB	10	0.13
(2,570)	1:4:C:LYS:HB3	1:2:C:ASN:HA	4	0.13
(2,570)	1:4:C:LYS:HB3	1:2:C:ASN:HA	21	0.13
(2,567)	1:94:C:ILE:H	1:94:C:ILE:HG12	21	0.13
(2,567)	1:94:C:ILE:H	1:94:C:ILE:HG12	25	0.13
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	23	0.13
(2,506)	1:82:C:LEU:HB2	1:83:C:ASN:H	13	0.13
(2,506)	1:82:C:LEU:HB2	1:83:C:ASN:H	16	0.13
(2,500)	1:82:C:LEU:H	1:81:C:LYS:HG3	2	0.13
(2,446)	1:74:C:ASN:H	1:71:C:THR:H	11	0.13
(2,446)	1:74:C:ASN:H	1:71:C:THR:H	14	0.13
(2,446)	1:74:C:ASN:H	1:71:C:THR:H	17	0.13
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	2	0.13
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	15	0.13
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	2	0.13
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	20	0.13
(2,436)	1:72:C:VAL:HA	1:75:C:ILE:H	12	0.13
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	6	0.13
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	8	0.13
(2,391)	1:65:C:THR:HA	1:56:C:ILE:H	9	0.13
(2,356)	1:56:C:ILE:HG12	1:64:C:TYR:H	25	0.13
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	9	0.13
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	10	0.13
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	17	0.13
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	19	0.13
(2,330)	1:53:C:ASN:HD21	1:53:C:ASN:H	24	0.13
(2,316)	1:51:C:ASP:H	1:50:C:GLU:HG3	24	0.13
(2,273)	1:40:C:SER:H	1:39:C:THR:HG1	6	0.13
(2,273)	1:40:C:SER:H	1:39:C:THR:HG1	12	0.13
(2,252)	1:37:C:LYS:H	1:30:C:SER:H	2	0.13
(2,252)	1:37:C:LYS:H	1:30:C:SER:H	8	0.13
(2,252)	1:37:C:LYS:H	1:30:C:SER:H	18	0.13
(2,252)	1:37:C:LYS:H	1:30:C:SER:H	20	0.13
(2,242)	1:35:C:GLN:HG2	1:36:C:LEU:H	17	0.13
(2,233)	1:33:C:GLY:HA3	1:34:C:ASN:H	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,233)	1:33:C:GLY:HA3	1:34:C:ASN:H	14	0.13
(2,233)	1:33:C:GLY:HA3	1:34:C:ASN:H	23	0.13
(2,231)	1:32:C:ASN:HB3	1:35:C:GLN:H	11	0.13
(2,231)	1:32:C:ASN:HB3	1:35:C:GLN:H	21	0.13
(2,215)	1:29:C:LEU:HG	1:29:C:LEU:H	2	0.13
(2,215)	1:29:C:LEU:HG	1:29:C:LEU:H	7	0.13
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	19	0.13
(2,116)	1:5:C:ALA:HA	1:6:C:LEU:H	15	0.13
(2,111)	1:4:C:LYS:HB2	1:2:C:ASN:H	25	0.13
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	12	0.13
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	17	0.13
(2,78)	1:66:C:PHE:HE1	1:56:C:ILE:HG13	23	0.13
(2,78)	1:66:C:PHE:HE2	1:56:C:ILE:HG13	23	0.13
(2,46)	1:54:C:TRP:HE3	1:93:C:GLN:HB3	15	0.13
(2,45)	1:54:C:TRP:HZ2	1:92:C:LYS:HA	5	0.13
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG21	20	0.13
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG22	20	0.13
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG23	20	0.13
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG21	22	0.13
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG22	22	0.13
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG23	22	0.13
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	1	0.13
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	3	0.13
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	5	0.13
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	9	0.13
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	11	0.13
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	12	0.13
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	13	0.13
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	15	0.13
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	16	0.13
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	19	0.13
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	21	0.13
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	25	0.13
(2,38)	1:49:C:TYR:HD1	1:49:C:TYR:HB3	7	0.13
(2,38)	1:49:C:TYR:HD2	1:49:C:TYR:HB3	7	0.13
(2,34)	1:45:C:TYR:HD1	1:45:C:TYR:HB3	21	0.13
(2,34)	1:45:C:TYR:HD2	1:45:C:TYR:HB3	21	0.13
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	13	0.13
(2,7)	1:29:C:LEU:HD21	1:17:C:ASN:HA	15	0.13
(2,7)	1:29:C:LEU:HD22	1:17:C:ASN:HA	15	0.13
(2,7)	1:29:C:LEU:HD23	1:17:C:ASN:HA	15	0.13
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:83:C:ASN:H	1:81:C:LYS:O	1	0.13
(1,29)	1:59:C:ASN:H	1:88:C:TYR:O	24	0.13
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	15	0.13
(2,1536)	1:94:C:ILE:HD11	1:65:C:THR:HB	14	0.12
(2,1536)	1:94:C:ILE:HD12	1:65:C:THR:HB	14	0.12
(2,1536)	1:94:C:ILE:HD13	1:65:C:THR:HB	14	0.12
(2,1536)	1:94:C:ILE:HD11	1:65:C:THR:HB	17	0.12
(2,1536)	1:94:C:ILE:HD12	1:65:C:THR:HB	17	0.12
(2,1536)	1:94:C:ILE:HD13	1:65:C:THR:HB	17	0.12
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	5	0.12
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	5	0.12
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	5	0.12
(2,1385)	1:84:C:ILE:HB	1:36:C:LEU:HG	22	0.12
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	2	0.12
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	15	0.12
(2,1367)	1:82:C:LEU:HD11	1:81:C:LYS:HE2	11	0.12
(2,1367)	1:82:C:LEU:HD12	1:81:C:LYS:HE2	11	0.12
(2,1367)	1:82:C:LEU:HD13	1:81:C:LYS:HE2	11	0.12
(2,1347)	1:80:C:ASN:HA	1:36:C:LEU:HB2	3	0.12
(2,1316)	1:79:C:ILE:HG21	1:37:C:LYS:HA	23	0.12
(2,1316)	1:79:C:ILE:HG22	1:37:C:LYS:HA	23	0.12
(2,1316)	1:79:C:ILE:HG23	1:37:C:LYS:HA	23	0.12
(2,1308)	1:78:C:ASP:HB3	1:82:C:LEU:HG	7	0.12
(2,1308)	1:78:C:ASP:HB3	1:82:C:LEU:HG	10	0.12
(2,1308)	1:78:C:ASP:HB3	1:82:C:LEU:HG	18	0.12
(2,1305)	1:78:C:ASP:HA	1:81:C:LYS:HD2	14	0.12
(2,1304)	1:78:C:ASP:HA	1:81:C:LYS:HB3	6	0.12
(2,1272)	1:75:C:ILE:HD11	1:72:C:VAL:HA	12	0.12
(2,1272)	1:75:C:ILE:HD12	1:72:C:VAL:HA	12	0.12
(2,1272)	1:75:C:ILE:HD13	1:72:C:VAL:HA	12	0.12
(2,1243)	1:72:C:VAL:HG11	1:73:C:GLY:HA2	23	0.12
(2,1243)	1:72:C:VAL:HG12	1:73:C:GLY:HA2	23	0.12
(2,1243)	1:72:C:VAL:HG13	1:73:C:GLY:HA2	23	0.12
(2,1207)	1:71:C:THR:HB	1:44:C:GLY:HA2	13	0.12
(2,1204)	1:71:C:THR:HG22	1:44:C:GLY:HA2	14	0.12
(2,1182)	1:69:C:LYS:HG2	1:68:C:GLU:HA	17	0.12
(2,1160)	1:68:C:GLU:HB3	1:47:C:ILE:HB	22	0.12
(2,1159)	1:67:C:ASN:HB3	1:70:C:SER:HA	16	0.12
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	7	0.12
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	12	0.12
(2,1049)	1:57:C:PHE:HB2	1:90:C:GLU:HB2	10	0.12
(2,1026)	1:56:C:ILE:HA	1:91:C:ILE:HG13	24	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	15	0.12
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	24	0.12
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	25	0.12
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG11	2	0.12
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG12	2	0.12
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG13	2	0.12
(2,1007)	1:56:C:ILE:HG12	1:54:C:TRP:HZ3	21	0.12
(2,959)	1:50:C:GLU:HA	1:69:C:LYS:HE2	22	0.12
(2,918)	1:46:C:GLY:HA3	1:47:C:ILE:HD11	21	0.12
(2,918)	1:46:C:GLY:HA3	1:47:C:ILE:HD12	21	0.12
(2,918)	1:46:C:GLY:HA3	1:47:C:ILE:HD13	21	0.12
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD11	9	0.12
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD12	9	0.12
(2,917)	1:46:C:GLY:HA2	1:47:C:ILE:HD13	9	0.12
(2,897)	1:43:C:ALA:HB1	1:41:C:SER:HA	7	0.12
(2,897)	1:43:C:ALA:HB2	1:41:C:SER:HA	7	0.12
(2,897)	1:43:C:ALA:HB3	1:41:C:SER:HA	7	0.12
(2,897)	1:43:C:ALA:HB1	1:41:C:SER:HA	15	0.12
(2,897)	1:43:C:ALA:HB2	1:41:C:SER:HA	15	0.12
(2,897)	1:43:C:ALA:HB3	1:41:C:SER:HA	15	0.12
(2,889)	1:40:C:SER:HA	1:72:C:VAL:HB	3	0.12
(2,889)	1:40:C:SER:HA	1:72:C:VAL:HB	18	0.12
(2,888)	1:40:C:SER:HA	1:41:C:SER:HA	13	0.12
(2,865)	1:38:C:ALA:HA	1:28:C:SER:HB2	4	0.12
(2,849)	1:37:C:LYS:HB2	1:37:C:LYS:HE3	15	0.12
(2,848)	1:37:C:LYS:HE3	1:37:C:LYS:HB3	5	0.12
(2,805)	1:30:C:SER:HA	1:13:C:ILE:HG21	17	0.12
(2,805)	1:30:C:SER:HA	1:13:C:ILE:HG22	17	0.12
(2,805)	1:30:C:SER:HA	1:13:C:ILE:HG23	17	0.12
(2,801)	1:16:C:VAL:HA	1:29:C:LEU:HD23	13	0.12
(2,770)	1:27:C:LEU:HD21	1:72:C:VAL:HA	21	0.12
(2,770)	1:27:C:LEU:HD22	1:72:C:VAL:HA	21	0.12
(2,770)	1:27:C:LEU:HD23	1:72:C:VAL:HA	21	0.12
(2,729)	1:26:C:LYS:HG3	1:41:C:SER:HB2	12	0.12
(2,727)	1:26:C:LYS:HG3	1:41:C:SER:HA	11	0.12
(2,727)	1:26:C:LYS:HG3	1:41:C:SER:HA	16	0.12
(2,727)	1:26:C:LYS:HG3	1:41:C:SER:HA	19	0.12
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	1	0.12
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	6	0.12
(2,707)	1:25:C:GLY:HA3	1:26:C:LYS:HE2	16	0.12
(2,706)	1:25:C:GLY:HA2	1:26:C:LYS:HE2	4	0.12
(2,706)	1:25:C:GLY:HA2	1:26:C:LYS:HE2	24	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,703)	1:24:C:LYS:HB3	1:46:C:GLY:HA3	9	0.12
(2,691)	1:22:C:LYS:HE2	1:48:C:SER:HB2	17	0.12
(2,671)	1:22:C:LYS:HE3	1:20:C:LEU:HA	15	0.12
(2,670)	1:22:C:LYS:HG2	1:19:C:LYS:HA	23	0.12
(2,607)	1:15:C:SER:HB2	1:15:C:SER:HA	19	0.12
(2,601)	1:13:C:ILE:HD11	1:16:C:VAL:HB	18	0.12
(2,601)	1:13:C:ILE:HD12	1:16:C:VAL:HB	18	0.12
(2,601)	1:13:C:ILE:HD13	1:16:C:VAL:HB	18	0.12
(2,587)	1:13:C:ILE:HD11	1:10:C:MET:HA	9	0.12
(2,587)	1:13:C:ILE:HD12	1:10:C:MET:HA	9	0.12
(2,587)	1:13:C:ILE:HD13	1:10:C:MET:HA	9	0.12
(2,587)	1:13:C:ILE:HD11	1:10:C:MET:HA	11	0.12
(2,587)	1:13:C:ILE:HD12	1:10:C:MET:HA	11	0.12
(2,587)	1:13:C:ILE:HD13	1:10:C:MET:HA	11	0.12
(2,571)	1:4:C:LYS:HB2	1:2:C:ASN:HA	12	0.12
(2,571)	1:4:C:LYS:HB2	1:2:C:ASN:HA	14	0.12
(2,567)	1:94:C:ILE:H	1:94:C:ILE:HG12	17	0.12
(2,553)	1:92:C:LYS:HD2	1:92:C:LYS:H	6	0.12
(2,551)	1:92:C:LYS:H	1:55:C:GLY:H	20	0.12
(2,551)	1:92:C:LYS:H	1:55:C:GLY:H	21	0.12
(2,536)	1:89:C:ILE:HG12	1:89:C:ILE:H	18	0.12
(2,506)	1:82:C:LEU:HB2	1:83:C:ASN:H	4	0.12
(2,506)	1:82:C:LEU:HB2	1:83:C:ASN:H	19	0.12
(2,446)	1:74:C:ASN:H	1:71:C:THR:H	15	0.12
(2,441)	1:72:C:VAL:HA	1:72:C:VAL:H	16	0.12
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	25	0.12
(2,436)	1:72:C:VAL:HA	1:75:C:ILE:H	10	0.12
(2,409)	1:48:C:SER:HB2	1:48:C:SER:H	2	0.12
(2,409)	1:48:C:SER:HB2	1:48:C:SER:H	13	0.12
(2,397)	1:66:C:PHE:H	1:54:C:TRP:H	9	0.12
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	2	0.12
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	8	0.12
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	22	0.12
(2,338)	1:53:C:ASN:HB2	1:54:C:TRP:H	4	0.12
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	2	0.12
(2,326)	1:52:C:LYS:HG2	1:53:C:ASN:H	1	0.12
(2,326)	1:52:C:LYS:HG2	1:53:C:ASN:H	23	0.12
(2,317)	1:49:C:TYR:HB3	1:50:C:GLU:H	13	0.12
(2,294)	1:45:C:TYR:HB3	1:46:C:GLY:H	7	0.12
(2,273)	1:40:C:SER:H	1:39:C:THR:HG1	8	0.12
(2,257)	1:37:C:LYS:H	1:37:C:LYS:HD3	7	0.12
(2,252)	1:37:C:LYS:H	1:30:C:SER:H	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,242)	1:35:C:GLN:HG2	1:36:C:LEU:H	5	0.12
(2,233)	1:33:C:GLY:HA3	1:34:C:ASN:H	1	0.12
(2,215)	1:29:C:LEU:HG	1:29:C:LEU:H	8	0.12
(2,184)	1:24:C:LYS:H	1:23:C:GLY:H	1	0.12
(2,174)	1:20:C:LEU:HB2	1:19:C:LYS:H	1	0.12
(2,130)	1:15:C:SER:H	1:11:C:ASN:HA	10	0.12
(2,130)	1:15:C:SER:H	1:11:C:ASN:HA	16	0.12
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	25	0.12
(2,105)	1:2:C:ASN:H	1:2:C:ASN:HD21	6	0.12
(2,92)	1:72:C:VAL:HG11	1:66:C:PHE:HE1	19	0.12
(2,92)	1:72:C:VAL:HG11	1:66:C:PHE:HE2	19	0.12
(2,92)	1:72:C:VAL:HG12	1:66:C:PHE:HE1	19	0.12
(2,92)	1:72:C:VAL:HG12	1:66:C:PHE:HE2	19	0.12
(2,92)	1:72:C:VAL:HG13	1:66:C:PHE:HE1	19	0.12
(2,92)	1:72:C:VAL:HG13	1:66:C:PHE:HE2	19	0.12
(2,79)	1:66:C:PHE:HB3	1:64:C:TYR:HE1	14	0.12
(2,79)	1:66:C:PHE:HB3	1:64:C:TYR:HE2	14	0.12
(2,45)	1:54:C:TRP:HZ2	1:92:C:LYS:HA	14	0.12
(2,45)	1:54:C:TRP:HZ2	1:92:C:LYS:HA	21	0.12
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG21	9	0.12
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG22	9	0.12
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG23	9	0.12
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG21	13	0.12
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG22	13	0.12
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG23	13	0.12
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG21	18	0.12
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG22	18	0.12
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG23	18	0.12
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	2	0.12
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	8	0.12
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	14	0.12
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	17	0.12
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	18	0.12
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	20	0.12
(2,38)	1:49:C:TYR:HD1	1:49:C:TYR:HB3	9	0.12
(2,38)	1:49:C:TYR:HD2	1:49:C:TYR:HB3	9	0.12
(2,17)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	8	0.12
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	19	0.12
(2,7)	1:29:C:LEU:HD21	1:17:C:ASN:HA	1	0.12
(2,7)	1:29:C:LEU:HD22	1:17:C:ASN:HA	1	0.12
(2,7)	1:29:C:LEU:HD23	1:17:C:ASN:HA	1	0.12
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,18)	1:68:C:GLU:H	1:52:C:LYS:O	11	0.12
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	22	0.12
(2,1526)	1:94:C:ILE:HD11	1:53:C:ASN:HD22	14	0.11
(2,1526)	1:94:C:ILE:HD12	1:53:C:ASN:HD22	14	0.11
(2,1526)	1:94:C:ILE:HD13	1:53:C:ASN:HD22	14	0.11
(2,1409)	1:86:C:GLY:HA2	1:84:C:ILE:HG21	18	0.11
(2,1409)	1:86:C:GLY:HA2	1:84:C:ILE:HG22	18	0.11
(2,1409)	1:86:C:GLY:HA2	1:84:C:ILE:HG23	18	0.11
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	17	0.11
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	17	0.11
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	17	0.11
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	25	0.11
(2,1383)	1:84:C:ILE:HG12	1:35:C:GLN:HG2	25	0.11
(2,1367)	1:82:C:LEU:HD11	1:81:C:LYS:HE2	14	0.11
(2,1367)	1:82:C:LEU:HD12	1:81:C:LYS:HE2	14	0.11
(2,1367)	1:82:C:LEU:HD13	1:81:C:LYS:HE2	14	0.11
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	14	0.11
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	14	0.11
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	14	0.11
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	17	0.11
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	17	0.11
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	17	0.11
(2,1356)	1:81:C:LYS:HD2	1:81:C:LYS:HA	18	0.11
(2,1308)	1:78:C:ASP:HB3	1:82:C:LEU:HG	8	0.11
(2,1308)	1:78:C:ASP:HB3	1:82:C:LEU:HG	12	0.11
(2,1272)	1:75:C:ILE:HD11	1:72:C:VAL:HA	22	0.11
(2,1272)	1:75:C:ILE:HD12	1:72:C:VAL:HA	22	0.11
(2,1272)	1:75:C:ILE:HD13	1:72:C:VAL:HA	22	0.11
(2,1231)	1:72:C:VAL:HG11	1:68:C:GLU:HG3	6	0.11
(2,1231)	1:72:C:VAL:HG12	1:68:C:GLU:HG3	6	0.11
(2,1231)	1:72:C:VAL:HG13	1:68:C:GLU:HG3	6	0.11
(2,1226)	1:40:C:SER:HA	1:27:C:LEU:HB3	24	0.11
(2,1223)	1:72:C:VAL:HG21	1:40:C:SER:HB3	6	0.11
(2,1220)	1:72:C:VAL:HG11	1:25:C:GLY:HA3	1	0.11
(2,1220)	1:72:C:VAL:HG12	1:25:C:GLY:HA3	1	0.11
(2,1220)	1:72:C:VAL:HG13	1:25:C:GLY:HA3	1	0.11
(2,1219)	1:72:C:VAL:HG11	1:25:C:GLY:HA2	19	0.11
(2,1219)	1:72:C:VAL:HG12	1:25:C:GLY:HA2	19	0.11
(2,1219)	1:72:C:VAL:HG13	1:25:C:GLY:HA2	19	0.11
(2,1216)	1:71:C:THR:HA	1:46:C:GLY:HA2	7	0.11
(2,1211)	1:71:C:THR:HA	1:46:C:GLY:HA3	18	0.11
(2,1182)	1:69:C:LYS:HG2	1:68:C:GLU:HA	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1182)	1:69:C:LYS:HG2	1:68:C:GLU:HA	8	0.11
(2,1182)	1:69:C:LYS:HG2	1:68:C:GLU:HA	22	0.11
(2,1182)	1:69:C:LYS:HG2	1:68:C:GLU:HA	24	0.11
(2,1170)	1:68:C:GLU:HG2	1:54:C:TRP:HD1	23	0.11
(2,1169)	1:68:C:GLU:HG3	1:54:C:TRP:HD1	11	0.11
(2,1168)	1:68:C:GLU:HG2	1:52:C:LYS:HG2	13	0.11
(2,1166)	1:68:C:GLU:HB3	1:52:C:LYS:HB3	8	0.11
(2,1164)	1:68:C:GLU:HB2	1:52:C:LYS:HB2	1	0.11
(2,1164)	1:68:C:GLU:HB2	1:52:C:LYS:HB2	11	0.11
(2,1160)	1:68:C:GLU:HB3	1:47:C:ILE:HB	6	0.11
(2,1159)	1:67:C:ASN:HB3	1:70:C:SER:HA	13	0.11
(2,1154)	1:67:C:ASN:HA	1:54:C:TRP:HD1	18	0.11
(2,1078)	1:90:C:GLU:HG2	1:89:C:ILE:HG12	15	0.11
(2,1064)	1:58:C:VAL:HG11	1:89:C:ILE:HA	8	0.11
(2,1064)	1:58:C:VAL:HG12	1:89:C:ILE:HA	8	0.11
(2,1064)	1:58:C:VAL:HG13	1:89:C:ILE:HA	8	0.11
(2,1049)	1:57:C:PHE:HB2	1:90:C:GLU:HB2	8	0.11
(2,1049)	1:57:C:PHE:HB2	1:90:C:GLU:HB2	15	0.11
(2,1049)	1:57:C:PHE:HB2	1:90:C:GLU:HB2	24	0.11
(2,1026)	1:56:C:ILE:HA	1:91:C:ILE:HG13	6	0.11
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	3	0.11
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	10	0.11
(2,1022)	1:56:C:ILE:HG13	1:90:C:GLU:HB2	19	0.11
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG11	3	0.11
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG12	3	0.11
(2,1017)	1:56:C:ILE:HG12	1:63:C:VAL:HG13	3	0.11
(2,1001)	1:55:C:GLY:HA3	1:54:C:TRP:HB3	19	0.11
(2,999)	1:55:C:GLY:HA2	1:54:C:TRP:HZ3	8	0.11
(2,988)	1:54:C:TRP:HZ2	1:16:C:VAL:HG21	23	0.11
(2,988)	1:54:C:TRP:HZ2	1:16:C:VAL:HG22	23	0.11
(2,988)	1:54:C:TRP:HZ2	1:16:C:VAL:HG23	23	0.11
(2,970)	1:51:C:ASP:HA	1:69:C:LYS:HG3	10	0.11
(2,966)	1:51:C:ASP:HA	1:52:C:LYS:HD2	12	0.11
(2,966)	1:51:C:ASP:HA	1:52:C:LYS:HD2	13	0.11
(2,939)	1:48:C:SER:HA	1:24:C:LYS:HD3	9	0.11
(2,918)	1:46:C:GLY:HA3	1:47:C:ILE:HD11	14	0.11
(2,918)	1:46:C:GLY:HA3	1:47:C:ILE:HD12	14	0.11
(2,918)	1:46:C:GLY:HA3	1:47:C:ILE:HD13	14	0.11
(2,897)	1:43:C:ALA:HB1	1:41:C:SER:HA	2	0.11
(2,897)	1:43:C:ALA:HB2	1:41:C:SER:HA	2	0.11
(2,897)	1:43:C:ALA:HB3	1:41:C:SER:HA	2	0.11
(2,897)	1:43:C:ALA:HB1	1:41:C:SER:HA	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,897)	1:43:C:ALA:HB2	1:41:C:SER:HA	8	0.11
(2,897)	1:43:C:ALA:HB3	1:41:C:SER:HA	8	0.11
(2,888)	1:40:C:SER:HA	1:41:C:SER:HA	9	0.11
(2,883)	1:40:C:SER:HB3	1:39:C:THR:HA	1	0.11
(2,881)	1:40:C:SER:HA	1:27:C:LEU:HA	11	0.11
(2,881)	1:40:C:SER:HA	1:27:C:LEU:HA	13	0.11
(2,706)	1:25:C:GLY:HA2	1:26:C:LYS:HE2	11	0.11
(2,703)	1:24:C:LYS:HB3	1:46:C:GLY:HA3	5	0.11
(2,703)	1:24:C:LYS:HB3	1:46:C:GLY:HA3	10	0.11
(2,698)	1:24:C:LYS:HD3	1:24:C:LYS:HA	19	0.11
(2,698)	1:24:C:LYS:HD3	1:24:C:LYS:HA	23	0.11
(2,660)	1:20:C:LEU:HD11	1:54:C:TRP:HE3	9	0.11
(2,660)	1:20:C:LEU:HD12	1:54:C:TRP:HE3	9	0.11
(2,660)	1:20:C:LEU:HD13	1:54:C:TRP:HE3	9	0.11
(2,632)	1:19:C:LYS:HG3	1:16:C:VAL:HA	17	0.11
(2,632)	1:19:C:LYS:HG3	1:16:C:VAL:HA	22	0.11
(2,630)	1:19:C:LYS:HD3	1:16:C:VAL:HA	14	0.11
(2,618)	1:16:C:VAL:HG21	1:20:C:LEU:HG	11	0.11
(2,618)	1:16:C:VAL:HG22	1:20:C:LEU:HG	11	0.11
(2,618)	1:16:C:VAL:HG23	1:20:C:LEU:HG	11	0.11
(2,607)	1:15:C:SER:HB2	1:15:C:SER:HA	5	0.11
(2,601)	1:13:C:ILE:HD11	1:16:C:VAL:HB	16	0.11
(2,601)	1:13:C:ILE:HD12	1:16:C:VAL:HB	16	0.11
(2,601)	1:13:C:ILE:HD13	1:16:C:VAL:HB	16	0.11
(2,601)	1:13:C:ILE:HD11	1:16:C:VAL:HB	17	0.11
(2,601)	1:13:C:ILE:HD12	1:16:C:VAL:HB	17	0.11
(2,601)	1:13:C:ILE:HD13	1:16:C:VAL:HB	17	0.11
(2,570)	1:4:C:LYS:HB3	1:2:C:ASN:HA	14	0.11
(2,567)	1:94:C:ILE:H	1:94:C:ILE:HG12	12	0.11
(2,553)	1:92:C:LYS:HD2	1:92:C:LYS:H	20	0.11
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	4	0.11
(2,526)	1:85:C:LYS:HA	1:86:C:GLY:H	1	0.11
(2,491)	1:80:C:ASN:HD21	1:76:C:SER:HB3	9	0.11
(2,470)	1:77:C:ASN:HD21	1:37:C:LYS:HA	14	0.11
(2,449)	1:74:C:ASN:HD21	1:73:C:GLY:H	2	0.11
(2,446)	1:74:C:ASN:H	1:71:C:THR:H	1	0.11
(2,446)	1:74:C:ASN:H	1:71:C:THR:H	8	0.11
(2,446)	1:74:C:ASN:H	1:71:C:THR:H	21	0.11
(2,446)	1:74:C:ASN:H	1:71:C:THR:H	23	0.11
(2,444)	1:73:C:GLY:HA2	1:77:C:ASN:H	1	0.11
(2,441)	1:72:C:VAL:HA	1:72:C:VAL:H	4	0.11
(2,441)	1:72:C:VAL:HA	1:72:C:VAL:H	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,441)	1:72:C:VAL:HA	1:72:C:VAL:H	25	0.11
(2,439)	1:73:C:GLY:H	1:71:C:THR:H	5	0.11
(2,428)	1:71:C:THR:HB	1:71:C:THR:H	25	0.11
(2,367)	1:58:C:VAL:HG21	1:88:C:TYR:H	17	0.11
(2,367)	1:58:C:VAL:HG22	1:88:C:TYR:H	17	0.11
(2,367)	1:58:C:VAL:HG23	1:88:C:TYR:H	17	0.11
(2,356)	1:56:C:ILE:HG12	1:64:C:TYR:H	2	0.11
(2,356)	1:56:C:ILE:HG12	1:64:C:TYR:H	3	0.11
(2,339)	1:54:C:TRP:HD1	1:54:C:TRP:H	16	0.11
(2,330)	1:53:C:ASN:HD21	1:53:C:ASN:H	14	0.11
(2,330)	1:53:C:ASN:HD21	1:53:C:ASN:H	19	0.11
(2,330)	1:53:C:ASN:HD21	1:53:C:ASN:H	21	0.11
(2,328)	1:52:C:LYS:H	1:68:C:GLU:HG2	10	0.11
(2,310)	1:49:C:TYR:H	1:50:C:GLU:H	18	0.11
(2,273)	1:40:C:SER:H	1:39:C:THR:HG1	1	0.11
(2,273)	1:40:C:SER:H	1:39:C:THR:HG1	11	0.11
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	7	0.11
(2,264)	1:37:C:LYS:HA	1:83:C:ASN:HD21	24	0.11
(2,252)	1:37:C:LYS:H	1:30:C:SER:H	7	0.11
(2,244)	1:36:C:LEU:HA	1:30:C:SER:H	7	0.11
(2,233)	1:33:C:GLY:HA3	1:34:C:ASN:H	18	0.11
(2,233)	1:33:C:GLY:HA3	1:34:C:ASN:H	20	0.11
(2,233)	1:33:C:GLY:HA3	1:34:C:ASN:H	25	0.11
(2,174)	1:20:C:LEU:HB2	1:19:C:LYS:H	7	0.11
(2,174)	1:20:C:LEU:HB2	1:19:C:LYS:H	14	0.11
(2,174)	1:20:C:LEU:HB2	1:19:C:LYS:H	15	0.11
(2,174)	1:20:C:LEU:HB2	1:19:C:LYS:H	16	0.11
(2,174)	1:20:C:LEU:HB2	1:19:C:LYS:H	21	0.11
(2,174)	1:20:C:LEU:HB2	1:19:C:LYS:H	22	0.11
(2,174)	1:20:C:LEU:HB2	1:19:C:LYS:H	24	0.11
(2,130)	1:15:C:SER:H	1:11:C:ASN:HA	7	0.11
(2,111)	1:4:C:LYS:HB2	1:2:C:ASN:H	2	0.11
(2,111)	1:4:C:LYS:HB2	1:2:C:ASN:H	15	0.11
(2,111)	1:4:C:LYS:HB2	1:2:C:ASN:H	18	0.11
(2,111)	1:4:C:LYS:HB2	1:2:C:ASN:H	20	0.11
(2,108)	1:3:C:GLN:HG2	1:4:C:LYS:H	6	0.11
(2,79)	1:66:C:PHE:HB3	1:64:C:TYR:HE1	7	0.11
(2,79)	1:66:C:PHE:HB3	1:64:C:TYR:HE2	7	0.11
(2,46)	1:54:C:TRP:HE3	1:93:C:GLN:HB3	2	0.11
(2,45)	1:54:C:TRP:HZ2	1:92:C:LYS:HA	12	0.11
(2,45)	1:54:C:TRP:HZ2	1:92:C:LYS:HA	18	0.11
(2,45)	1:54:C:TRP:HZ2	1:92:C:LYS:HA	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,45)	1:54:C:TRP:HZ2	1:92:C:LYS:HA	20	0.11
(2,45)	1:54:C:TRP:HZ2	1:92:C:LYS:HA	23	0.11
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG21	25	0.11
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG22	25	0.11
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG23	25	0.11
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	6	0.11
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	10	0.11
(2,42)	1:54:C:TRP:HH2	1:54:C:TRP:HZ3	23	0.11
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	22	0.11
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	22	0.11
(2,35)	1:45:C:TYR:HD1	1:45:C:TYR:HB2	5	0.11
(2,35)	1:45:C:TYR:HD2	1:45:C:TYR:HB2	5	0.11
(2,34)	1:45:C:TYR:HD1	1:45:C:TYR:HB3	2	0.11
(2,34)	1:45:C:TYR:HD2	1:45:C:TYR:HB3	2	0.11
(2,34)	1:45:C:TYR:HD1	1:45:C:TYR:HB3	25	0.11
(2,34)	1:45:C:TYR:HD2	1:45:C:TYR:HB3	25	0.11
(2,31)	1:27:C:LEU:HD21	1:64:C:TYR:HD1	22	0.11
(2,31)	1:27:C:LEU:HD21	1:64:C:TYR:HD2	22	0.11
(2,31)	1:27:C:LEU:HD22	1:64:C:TYR:HD1	22	0.11
(2,31)	1:27:C:LEU:HD22	1:64:C:TYR:HD2	22	0.11
(2,31)	1:27:C:LEU:HD23	1:64:C:TYR:HD1	22	0.11
(2,31)	1:27:C:LEU:HD23	1:64:C:TYR:HD2	22	0.11
(2,17)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	5	0.11
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	11	0.11
(2,3)	1:54:C:TRP:HH2	1:27:C:LEU:HB2	14	0.11
(1,29)	1:59:C:ASN:H	1:88:C:TYR:O	2	0.11
(1,29)	1:59:C:ASN:H	1:88:C:TYR:O	9	0.11
(1,18)	1:68:C:GLU:H	1:52:C:LYS:O	16	0.11
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	7	0.11
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	11	0.11
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	13	0.11
(1,9)	1:26:C:LYS:H	1:41:C:SER:O	25	0.11
(2,1542)	1:94:C:ILE:HD11	1:93:C:GLN:HB3	2	0.1
(2,1542)	1:94:C:ILE:HD12	1:93:C:GLN:HB3	2	0.1
(2,1542)	1:94:C:ILE:HD13	1:93:C:GLN:HB3	2	0.1
(2,1533)	1:94:C:ILE:HG21	1:55:C:GLY:HA2	21	0.1
(2,1533)	1:94:C:ILE:HG22	1:55:C:GLY:HA2	21	0.1
(2,1533)	1:94:C:ILE:HG23	1:55:C:GLY:HA2	21	0.1
(2,1524)	1:94:C:ILE:HG21	1:53:C:ASN:HD22	15	0.1
(2,1524)	1:94:C:ILE:HG22	1:53:C:ASN:HD22	15	0.1
(2,1524)	1:94:C:ILE:HG23	1:53:C:ASN:HD22	15	0.1
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	9	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1523)	1:94:C:ILE:HA	1:53:C:ASN:HD22	22	0.1
(2,1400)	1:84:C:ILE:HD11	1:86:C:GLY:HA2	19	0.1
(2,1400)	1:84:C:ILE:HD12	1:86:C:GLY:HA2	19	0.1
(2,1400)	1:84:C:ILE:HD13	1:86:C:GLY:HA2	19	0.1
(2,1398)	1:84:C:ILE:HG13	1:85:C:LYS:HE3	8	0.1
(2,1385)	1:84:C:ILE:HB	1:36:C:LEU:HG	25	0.1
(2,1384)	1:84:C:ILE:HG12	1:35:C:GLN:HG3	8	0.1
(2,1363)	1:82:C:LEU:HD11	1:79:C:ILE:HA	15	0.1
(2,1363)	1:82:C:LEU:HD12	1:79:C:ILE:HA	15	0.1
(2,1363)	1:82:C:LEU:HD13	1:79:C:ILE:HA	15	0.1
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	10	0.1
(2,1360)	1:82:C:LEU:HG	1:78:C:ASP:HB2	23	0.1
(2,1316)	1:79:C:ILE:HG21	1:37:C:LYS:HA	6	0.1
(2,1316)	1:79:C:ILE:HG22	1:37:C:LYS:HA	6	0.1
(2,1316)	1:79:C:ILE:HG23	1:37:C:LYS:HA	6	0.1
(2,1294)	1:40:C:SER:HB3	1:39:C:THR:HB	22	0.1
(2,1211)	1:71:C:THR:HA	1:46:C:GLY:HA3	25	0.1
(2,1207)	1:71:C:THR:HB	1:44:C:GLY:HA2	12	0.1
(2,1182)	1:69:C:LYS:HG2	1:68:C:GLU:HA	2	0.1
(2,1182)	1:69:C:LYS:HG2	1:68:C:GLU:HA	12	0.1
(2,1164)	1:68:C:GLU:HB2	1:52:C:LYS:HB2	21	0.1
(2,1079)	1:62:C:LYS:HB2	1:61:C:GLU:HG2	13	0.1
(2,1079)	1:62:C:LYS:HB2	1:61:C:GLU:HG2	21	0.1
(2,1064)	1:58:C:VAL:HG11	1:89:C:ILE:HA	10	0.1
(2,1064)	1:58:C:VAL:HG12	1:89:C:ILE:HA	10	0.1
(2,1064)	1:58:C:VAL:HG13	1:89:C:ILE:HA	10	0.1
(2,1049)	1:57:C:PHE:HB2	1:90:C:GLU:HB2	2	0.1
(2,1049)	1:57:C:PHE:HB2	1:90:C:GLU:HB2	12	0.1
(2,1023)	1:56:C:ILE:HG13	1:90:C:GLU:HB3	19	0.1
(2,999)	1:55:C:GLY:HA2	1:54:C:TRP:HZ3	23	0.1
(2,986)	1:53:C:ASN:HD22	1:94:C:ILE:HB	2	0.1
(2,970)	1:51:C:ASP:HA	1:69:C:LYS:HG3	7	0.1
(2,961)	1:50:C:GLU:HA	1:69:C:LYS:HD3	17	0.1
(2,958)	1:50:C:GLU:HB2	1:52:C:LYS:HG2	20	0.1
(2,955)	1:50:C:GLU:HG3	1:50:C:GLU:HA	19	0.1
(2,940)	1:48:C:SER:HA	1:24:C:LYS:HG2	2	0.1
(2,935)	1:47:C:ILE:HG21	1:48:C:SER:HB2	2	0.1
(2,935)	1:47:C:ILE:HG22	1:48:C:SER:HB2	2	0.1
(2,935)	1:47:C:ILE:HG23	1:48:C:SER:HB2	2	0.1
(2,918)	1:46:C:GLY:HA3	1:47:C:ILE:HD11	16	0.1
(2,918)	1:46:C:GLY:HA3	1:47:C:ILE:HD12	16	0.1
(2,918)	1:46:C:GLY:HA3	1:47:C:ILE:HD13	16	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,897)	1:43:C:ALA:HB1	1:41:C:SER:HA	6	0.1
(2,897)	1:43:C:ALA:HB2	1:41:C:SER:HA	6	0.1
(2,897)	1:43:C:ALA:HB3	1:41:C:SER:HA	6	0.1
(2,889)	1:40:C:SER:HA	1:72:C:VAL:HB	19	0.1
(2,883)	1:40:C:SER:HB3	1:39:C:THR:HA	11	0.1
(2,879)	1:40:C:SER:HB3	1:27:C:LEU:HA	9	0.1
(2,783)	1:29:C:LEU:HD11	1:28:C:SER:HB2	24	0.1
(2,783)	1:29:C:LEU:HD12	1:28:C:SER:HB2	24	0.1
(2,783)	1:29:C:LEU:HD13	1:28:C:SER:HB2	24	0.1
(2,698)	1:24:C:LYS:HD3	1:24:C:LYS:HA	5	0.1
(2,626)	1:18:C:ASP:HA	1:21:C:ASN:HB3	22	0.1
(2,618)	1:16:C:VAL:HG21	1:20:C:LEU:HG	22	0.1
(2,618)	1:16:C:VAL:HG22	1:20:C:LEU:HG	22	0.1
(2,618)	1:16:C:VAL:HG23	1:20:C:LEU:HG	22	0.1
(2,607)	1:15:C:SER:HB2	1:15:C:SER:HA	10	0.1
(2,565)	1:94:C:ILE:H	1:93:C:GLN:HB2	6	0.1
(2,552)	1:92:C:LYS:HG2	1:55:C:GLY:H	15	0.1
(2,551)	1:92:C:LYS:H	1:55:C:GLY:H	18	0.1
(2,551)	1:92:C:LYS:H	1:55:C:GLY:H	19	0.1
(2,531)	1:88:C:TYR:H	1:59:C:ASN:H	22	0.1
(2,530)	1:88:C:TYR:HB2	1:9:C:GLN:H	3	0.1
(2,520)	1:84:C:ILE:H	1:84:C:ILE:HG12	1	0.1
(2,469)	1:77:C:ASN:HD22	1:37:C:LYS:HA	20	0.1
(2,446)	1:74:C:ASN:H	1:71:C:THR:H	3	0.1
(2,441)	1:72:C:VAL:HA	1:72:C:VAL:H	3	0.1
(2,437)	1:72:C:VAL:HA	1:76:C:SER:H	25	0.1
(2,435)	1:72:C:VAL:HG11	1:73:C:GLY:H	1	0.1
(2,435)	1:72:C:VAL:HG12	1:73:C:GLY:H	1	0.1
(2,435)	1:72:C:VAL:HG13	1:73:C:GLY:H	1	0.1
(2,397)	1:66:C:PHE:H	1:54:C:TRP:H	6	0.1
(2,356)	1:56:C:ILE:HG12	1:64:C:TYR:H	12	0.1
(2,317)	1:49:C:TYR:HB3	1:50:C:GLU:H	2	0.1
(2,273)	1:40:C:SER:H	1:39:C:THR:HG1	7	0.1
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	9	0.1
(2,251)	1:37:C:LYS:HD2	1:30:C:SER:H	14	0.1
(2,233)	1:33:C:GLY:HA3	1:34:C:ASN:H	7	0.1
(2,195)	1:25:C:GLY:HA3	1:26:C:LYS:H	6	0.1
(2,174)	1:20:C:LEU:HB2	1:19:C:LYS:H	8	0.1
(2,174)	1:20:C:LEU:HB2	1:19:C:LYS:H	17	0.1
(2,123)	1:9:C:GLN:HE21	1:8:C:GLU:H	13	0.1
(2,119)	1:8:C:GLU:H	1:3:C:GLN:HG3	17	0.1
(2,111)	1:4:C:LYS:HB2	1:2:C:ASN:H	23	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,105)	1:2:C:ASN:H	1:2:C:ASN:HD21	19	0.1
(2,88)	1:66:C:PHE:HE1	1:75:C:ILE:HG21	13	0.1
(2,88)	1:66:C:PHE:HE1	1:75:C:ILE:HG22	13	0.1
(2,88)	1:66:C:PHE:HE1	1:75:C:ILE:HG23	13	0.1
(2,88)	1:66:C:PHE:HE2	1:75:C:ILE:HG21	13	0.1
(2,88)	1:66:C:PHE:HE2	1:75:C:ILE:HG22	13	0.1
(2,88)	1:66:C:PHE:HE2	1:75:C:ILE:HG23	13	0.1
(2,74)	1:64:C:TYR:HE1	1:65:C:THR:HB	21	0.1
(2,74)	1:64:C:TYR:HE2	1:65:C:THR:HB	21	0.1
(2,45)	1:54:C:TRP:HZ2	1:92:C:LYS:HA	11	0.1
(2,45)	1:54:C:TRP:HZ2	1:92:C:LYS:HA	15	0.1
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG21	10	0.1
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG22	10	0.1
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG23	10	0.1
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG21	16	0.1
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG22	16	0.1
(2,44)	1:54:C:TRP:HZ2	1:91:C:ILE:HG23	16	0.1
(2,38)	1:49:C:TYR:HD1	1:49:C:TYR:HB3	5	0.1
(2,38)	1:49:C:TYR:HD2	1:49:C:TYR:HB3	5	0.1
(2,37)	1:49:C:TYR:HD1	1:49:C:TYR:HB2	8	0.1
(2,37)	1:49:C:TYR:HD2	1:49:C:TYR:HB2	8	0.1
(2,35)	1:45:C:TYR:HD1	1:45:C:TYR:HB2	18	0.1
(2,35)	1:45:C:TYR:HD2	1:45:C:TYR:HB2	18	0.1
(2,34)	1:45:C:TYR:HD1	1:45:C:TYR:HB3	10	0.1
(2,34)	1:45:C:TYR:HD2	1:45:C:TYR:HB3	10	0.1
(2,34)	1:45:C:TYR:HD1	1:45:C:TYR:HB3	11	0.1
(2,34)	1:45:C:TYR:HD2	1:45:C:TYR:HB3	11	0.1
(2,34)	1:45:C:TYR:HD1	1:45:C:TYR:HB3	24	0.1
(2,34)	1:45:C:TYR:HD2	1:45:C:TYR:HB3	24	0.1
(2,17)	1:25:C:GLY:HA3	1:22:C:LYS:HE3	25	0.1
(2,8)	1:69:C:LYS:HG2	1:70:C:SER:HA	21	0.1
(2,7)	1:29:C:LEU:HD21	1:17:C:ASN:HA	18	0.1
(2,7)	1:29:C:LEU:HD22	1:17:C:ASN:HA	18	0.1
(2,7)	1:29:C:LEU:HD23	1:17:C:ASN:HA	18	0.1

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

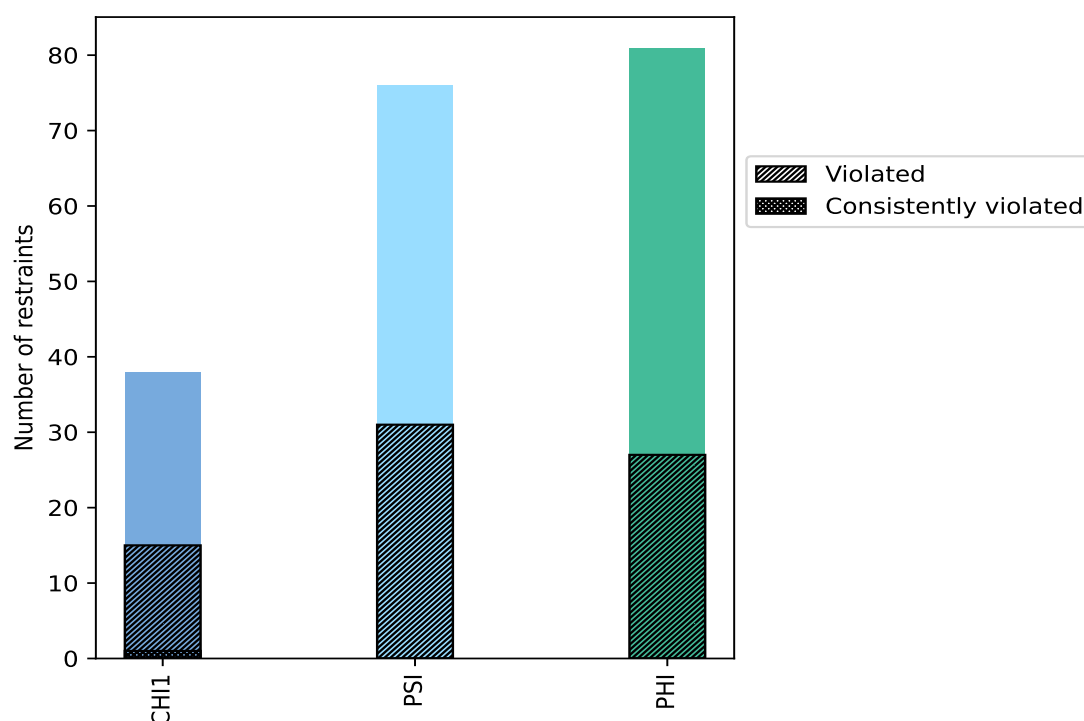
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
CHI1	38	19.5	15	39.5	7.7	1	2.6	0.5
PSI	76	39.0	31	40.8	15.9	0	0.0	0.0
PHI	81	41.5	27	33.3	13.8	0	0.0	0.0
Total	195	100.0	73	37.4	37.4	1	0.5	0.5

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

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



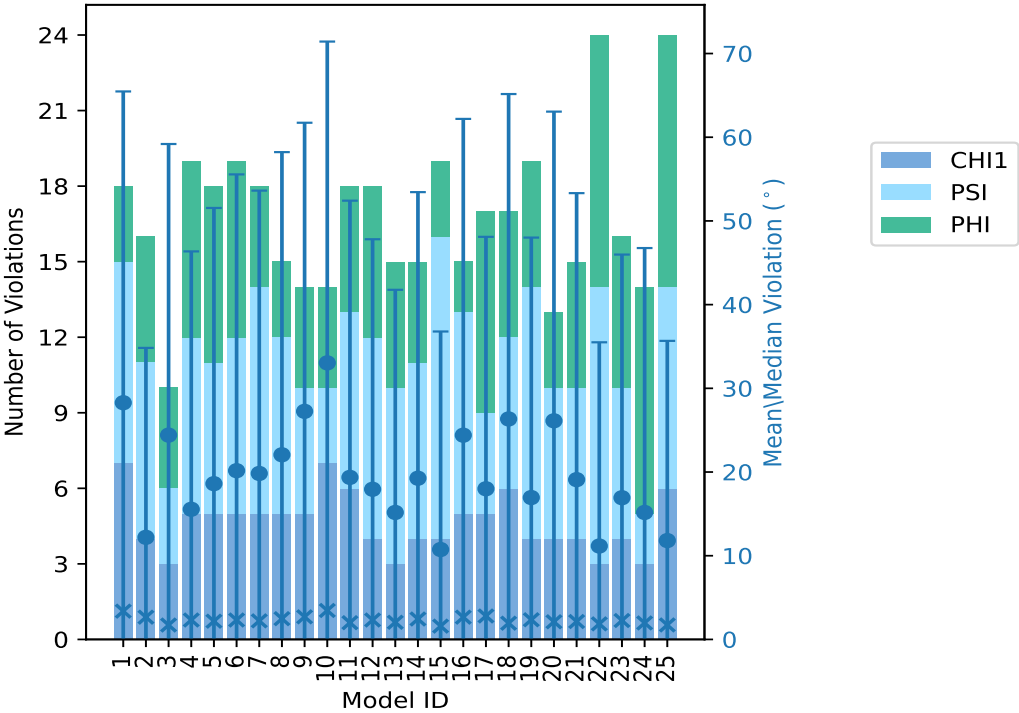
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model

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

Model ID	Number of violations				Mean (°)	Max (°)	SD (°)	Median (°)
	CHI1	PSI	PHI	Total				
1	7	8	3	18	28.28	99.94	37.19	3.38
2	4	7	5	16	12.2	82.24	22.63	2.66
3	3	3	4	10	24.41	81.92	34.78	1.72
4	5	7	7	19	15.55	89.47	30.81	2.32
5	5	6	7	18	18.61	96.43	32.94	2.18
6	5	7	7	19	20.16	104.34	35.4	2.32
7	5	9	4	18	19.83	98.61	33.79	2.22
8	5	7	3	15	22.06	101.73	36.16	2.48
9	5	5	4	14	27.25	89.77	34.48	2.7
10	7	3	4	14	33.04	99.25	38.39	3.46
11	6	7	5	18	19.36	95.3	33.06	2.0
12	4	8	6	18	17.94	86.65	29.87	2.32
13	3	7	5	15	15.17	74.53	26.6	2.05
14	4	7	4	15	19.26	94.77	34.18	2.44
15	4	12	3	19	10.74	95.02	26.05	1.59
16	5	8	2	15	24.4	119.7	37.79	2.66
17	5	4	8	17	18.0	84.97	30.1	2.8
18	6	6	5	17	26.34	109.68	38.82	1.94
19	4	10	5	19	16.95	89.79	31.06	2.35
20	4	6	3	13	26.12	89.28	36.94	2.11
21	4	6	5	15	19.09	92.3	34.23	2.14
22	3	11	10	24	11.16	87.91	24.34	1.86
23	4	6	6	16	16.93	86.81	29.05	2.26
24	3	2	9	14	15.17	93.46	31.59	1.97
25	6	8	10	24	11.81	88.85	23.86	1.73

10.2.1 Bar graph : Dihedral violation statistics for each model ⓘ



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

10.3 Dihedral-angle violation statistics for the ensemble ⓘ

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

Number of violated restraints				Fraction of the ensemble	
CHI1	PSI	PHI	Total	Count ¹	%
5	9	5	19	1	4.0
3	0	6	9	2	8.0
0	6	1	7	3	12.0
0	2	4	6	4	16.0
1	1	3	5	5	20.0
0	1	2	3	6	24.0
0	1	1	2	7	28.0
1	2	0	3	8	32.0
0	3	1	4	9	36.0
1	1	1	3	10	40.0
0	1	0	1	11	44.0

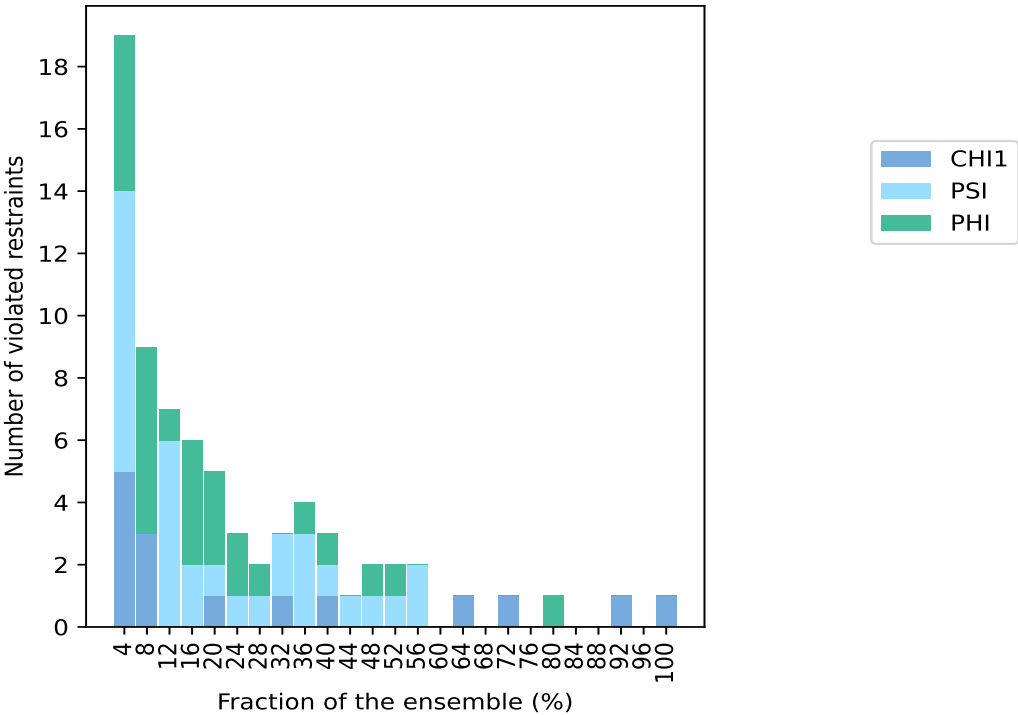
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Number of violated restraints				Fraction of the ensemble	
CHI1	PSI	PHI	Total	Count ¹	%
0	1	1	2	12	48.0
0	1	1	2	13	52.0
0	2	0	2	14	56.0
0	0	0	0	15	60.0
1	0	0	1	16	64.0
0	0	0	0	17	68.0
1	0	0	1	18	72.0
0	0	0	0	19	76.0
0	0	1	1	20	80.0
0	0	0	0	21	84.0
0	0	0	0	22	88.0
1	0	0	1	23	92.0
0	0	0	0	24	96.0
1	0	0	1	25	100.0

¹ Number of models with violations

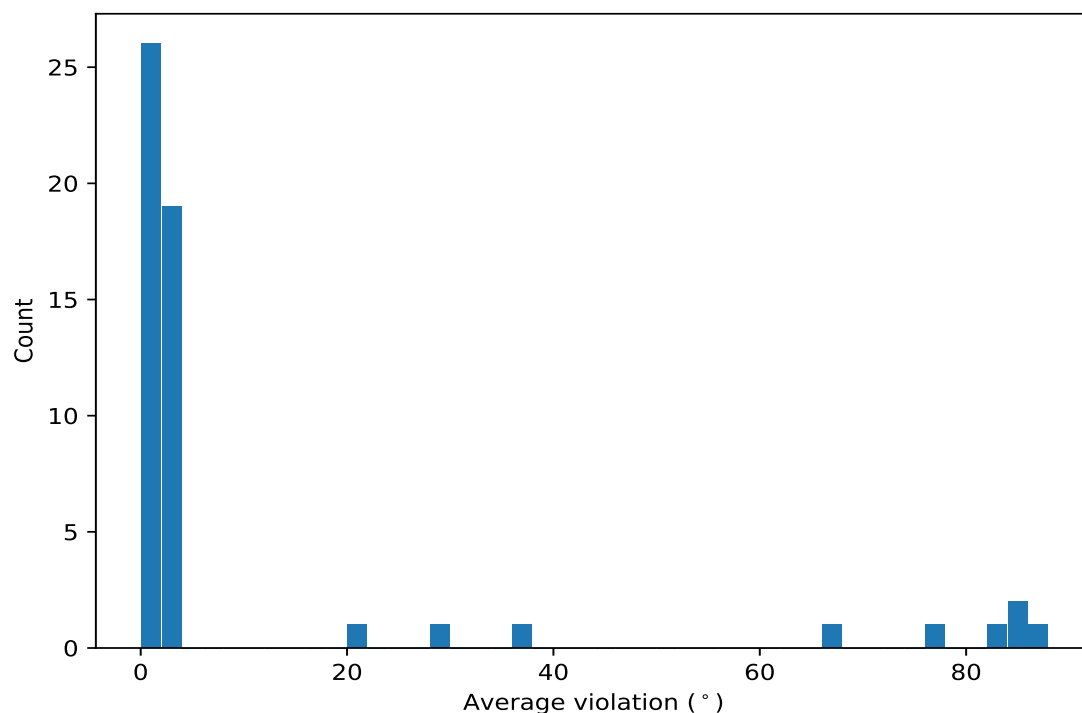
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble ⓘ



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

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

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	25	82.05	7.12	82.24
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	23	84.45	17.09	87.91
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	20	2.16	0.59	2.19
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	18	87.17	5.86	86.77
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	16	2.63	0.84	2.54
(1,12)	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	1:10:C:MET:N	14	2.71	1.0	2.67
(1,68)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:C	1:41:C:SER:N	14	2.0	0.81	1.78
(1,38)	1:24:C:LYS:N	1:24:C:LYS:CA	1:24:C:LYS:C	1:25:C:GLY:N	13	2.44	1.13	1.95
(1,141)	1:82:C:LEU:C	1:83:C:ASN:N	1:83:C:ASN:CA	1:83:C:ASN:C	13	2.08	0.58	1.8
(1,130)	1:77:C:ASN:N	1:77:C:ASN:CA	1:77:C:ASN:C	1:78:C:ASP:N	12	2.22	0.62	2.17
(1,7)	1:5:C:ALA:C	1:6:C:LEU:N	1:6:C:LEU:CA	1:6:C:LEU:C	12	1.74	0.44	1.79
(1,56)	1:34:C:ASN:N	1:34:C:ASN:CA	1:34:C:ASN:C	1:35:C:GLN:N	11	2.85	1.12	3.19
(1,195)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:CB	1:91:C:ILE:CG1	10	66.74	2.25	66.46

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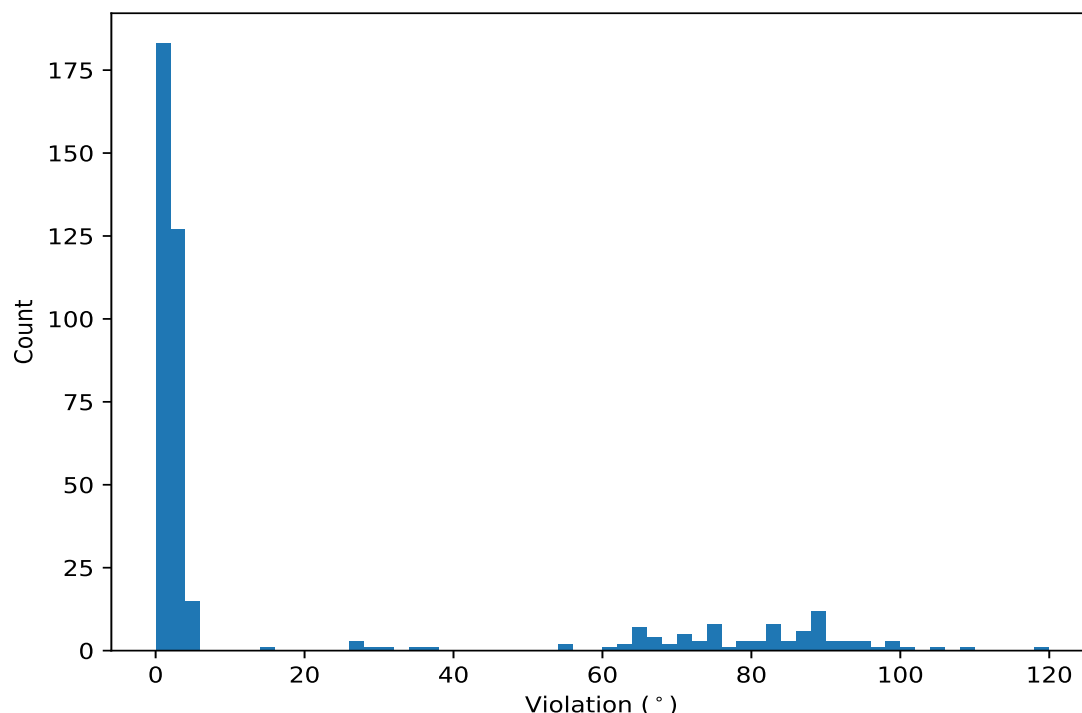
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,52)	1:32:C:ASN:N	1:32:C:ASN:CA	1:32:C:ASN:C	1:33:C:GLY:N	10	2.2	0.65	2.19
(1,63)	1:37:C:LYS:C	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	10	1.77	0.52	1.76
(1,62)	1:37:C:LYS:N	1:37:C:LYS:CA	1:37:C:LYS:C	1:38:C:ALA:N	9	3.28	1.08	3.44
(1,65)	1:38:C:ALA:C	1:39:C:THR:N	1:39:C:THR:CA	1:39:C:THR:C	9	2.37	0.94	2.32
(1,14)	1:10:C:MET:N	1:10:C:MET:CA	1:10:C:MET:C	1:11:C:ASN:N	9	2.32	1.01	1.96
(1,79)	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:C	1:48:C:SER:N	9	1.56	0.5	1.43
(1,173)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:CB	1:40:C:SER:OG	8	77.59	8.42	79.14
(1,155)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:C	1:92:C:LYS:N	8	1.99	0.88	1.66
(1,153)	1:90:C:GLU:N	1:90:C:GLU:CA	1:90:C:GLU:C	1:91:C:ILE:N	8	1.79	0.68	1.59
(1,9)	1:7:C:GLU:N	1:7:C:GLU:CA	1:7:C:GLU:C	1:8:C:GLU:N	7	2.77	0.74	2.67
(1,5)	1:4:C:LYS:C	1:5:C:ALA:N	1:5:C:ALA:CA	1:5:C:ALA:C	7	2.26	1.27	1.6
(1,19)	1:12:C:SER:C	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:C	6	1.63	0.42	1.54
(1,103)	1:60:C:GLY:C	1:61:C:GLU:N	1:61:C:GLU:CA	1:61:C:GLU:C	6	1.6	0.2	1.5
(1,64)	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	1:39:C:THR:N	6	1.47	0.42	1.38
(1,193)	1:84:C:ILE:N	1:84:C:ILE:CA	1:84:C:ILE:CB	1:84:C:ILE:CG1	5	37.36	9.81	34.74
(1,78)	1:46:C:GLY:C	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:C	5	2.04	0.73	1.96
(1,118)	1:70:C:SER:C	1:71:C:THR:N	1:71:C:THR:CA	1:71:C:THR:C	5	2.03	1.0	1.7
(1,48)	1:30:C:SER:N	1:30:C:SER:CA	1:30:C:SER:C	1:31:C:MET:N	5	1.67	0.62	1.49
(1,70)	1:41:C:SER:C	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:C	5	1.33	0.23	1.45
(1,87)	1:52:C:LYS:C	1:53:C:ASN:N	1:53:C:ASN:CA	1:53:C:ASN:C	4	2.62	1.32	2.41
(1,51)	1:31:C:MET:C	1:32:C:ASN:N	1:32:C:ASN:CA	1:32:C:ASN:C	4	2.49	0.87	2.86
(1,10)	1:8:C:GLU:N	1:8:C:GLU:CA	1:8:C:GLU:C	1:9:C:GLN:N	4	1.98	0.7	1.72
(1,39)	1:25:C:GLY:C	1:26:C:LYS:N	1:26:C:LYS:CA	1:26:C:LYS:C	4	1.82	0.69	1.74
(1,152)	1:89:C:ILE:C	1:90:C:GLU:N	1:90:C:GLU:CA	1:90:C:GLU:C	4	1.68	0.39	1.63
(1,149)	1:88:C:TYR:N	1:88:C:TYR:CA	1:88:C:TYR:C	1:89:C:ILE:N	4	1.54	0.4	1.44
(1,8)	1:6:C:LEU:C	1:7:C:GLU:N	1:7:C:GLU:CA	1:7:C:GLU:C	3	1.98	0.59	2.35
(1,86)	1:52:C:LYS:N	1:52:C:LYS:CA	1:52:C:LYS:C	1:53:C:ASN:N	3	1.66	0.18	1.57
(1,2)	1:3:C:GLN:N	1:3:C:GLN:CA	1:3:C:GLN:C	1:4:C:LYS:N	3	1.62	0.25	1.57
(1,20)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:C	1:14:C:ASN:N	3	1.52	0.18	1.52
(1,90)	1:54:C:TRP:N	1:54:C:TRP:CA	1:54:C:TRP:C	1:55:C:GLY:N	3	1.5	0.21	1.4
(1,54)	1:33:C:GLY:N	1:33:C:GLY:CA	1:33:C:GLY:C	1:34:C:ASN:N	3	1.26	0.28	1.11
(1,44)	1:28:C:SER:N	1:28:C:SER:CA	1:28:C:SER:C	1:29:C:LEU:N	3	1.25	0.2	1.14
(1,194)	1:89:C:ILE:N	1:89:C:ILE:CA	1:89:C:ILE:CB	1:89:C:ILE:CG1	2	85.1	10.2	85.1
(1,176)	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:CB	1:47:C:ILE:CG1	2	28.6	0.82	28.6
(1,185)	1:72:C:VAL:N	1:72:C:VAL:CA	1:72:C:VAL:CB	1:72:C:VAL:CG1	2	21.19	6.56	21.19
(1,11)	1:8:C:GLU:C	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	2	2.25	0.41	2.25
(1,59)	1:35:C:GLN:C	1:36:C:LEU:N	1:36:C:LEU:CA	1:36:C:LEU:C	2	1.76	0.49	1.76
(1,101)	1:59:C:ASN:C	1:60:C:GLY:N	1:60:C:GLY:CA	1:60:C:GLY:C	2	1.64	0.61	1.64
(1,55)	1:33:C:GLY:C	1:34:C:ASN:N	1:34:C:ASN:CA	1:34:C:ASN:C	2	1.32	0.05	1.32
(1,45)	1:28:C:SER:C	1:29:C:LEU:N	1:29:C:LEU:CA	1:29:C:LEU:C	2	1.27	0.03	1.27
(1,156)	1:91:C:ILE:C	1:92:C:LYS:N	1:92:C:LYS:CA	1:92:C:LYS:C	2	1.23	0.16	1.23

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

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

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

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	16	119.7
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	18	109.68
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	6	104.34
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	8	101.73
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	1	99.94
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	10	99.25
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	7	98.61
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	5	96.43
(1,194)	1:89:C:ILE:N	1:89:C:ILE:CA	1:89:C:ILE:CB	1:89:C:ILE:CG1	11	95.3
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	15	95.02
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	14	94.77
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	24	93.46
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	6	92.85
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	21	92.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	18	91.82
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	24	91.54
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	14	91.3
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	21	89.85
(1,173)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:CB	1:40:C:SER:OG	19	89.79
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	9	89.77
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	4	89.47
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	5	89.38
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	20	89.28
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	7	89.08
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	8	89.05
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	19	88.9
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	25	88.85
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	8	88.5
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	20	88.2
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	22	87.91
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	23	86.81
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	6	86.73
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	4	86.71
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	12	86.65
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	1	86.48
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	1	85.77
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	10	85.29
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	17	84.97
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	5	83.81
(1,173)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:CB	1:40:C:SER:OG	4	83.73
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	17	83.73
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	19	83.57
(1,173)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:CB	1:40:C:SER:OG	18	83.43
(1,173)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:CB	1:40:C:SER:OG	10	83.12
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	2	82.24
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	11	82.23
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	3	81.92
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	3	81.27
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	9	81.27
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	21	79.98
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	16	79.96
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	10	79.08
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	15	77.36
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	12	75.75
(1,180)	1:58:C:VAL:N	1:58:C:VAL:CA	1:58:C:VAL:CB	1:58:C:VAL:CG1	20	75.6
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	14	75.45
(1,173)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:CB	1:40:C:SER:OG	1	75.15
(1,194)	1:89:C:ILE:N	1:89:C:ILE:CA	1:89:C:ILE:CB	1:89:C:ILE:CG1	1	74.91
(1,173)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:CB	1:40:C:SER:OG	17	74.74
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	11	74.55
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	13	74.53
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	18	72.99
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	7	72.92
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	22	72.88
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	23	71.87

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,195)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:CB	1:91:C:ILE:CG1	20	71.5
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	23	71.42
(1,174)	1:41:C:SER:N	1:41:C:SER:CA	1:41:C:SER:CB	1:41:C:SER:OG	16	70.64
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	11	70.44
(1,195)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:CB	1:91:C:ILE:CG1	10	68.73
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	3	68.66
(1,195)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:CB	1:91:C:ILE:CG1	18	67.89
(1,195)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:CB	1:91:C:ILE:CG1	7	67.77
(1,195)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:CB	1:91:C:ILE:CG1	16	67.53
(1,173)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:CB	1:40:C:SER:OG	6	66.54
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	12	65.74
(1,195)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:CB	1:91:C:ILE:CG1	13	65.38
(1,195)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:CB	1:91:C:ILE:CG1	9	65.34
(1,195)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:CB	1:91:C:ILE:CG1	12	64.9
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	13	64.7
(1,195)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:CB	1:91:C:ILE:CG1	25	64.55
(1,173)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:CB	1:40:C:SER:OG	9	64.18
(1,195)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:CB	1:91:C:ILE:CG1	22	63.77
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	9	62.81
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	25	60.62
(1,193)	1:84:C:ILE:N	1:84:C:ILE:CA	1:84:C:ILE:CB	1:84:C:ILE:CG1	1	55.77
(1,164)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:CB	1:13:C:ILE:CG1	2	54.33
(1,193)	1:84:C:ILE:N	1:84:C:ILE:CA	1:84:C:ILE:CB	1:84:C:ILE:CG1	5	37.35
(1,193)	1:84:C:ILE:N	1:84:C:ILE:CA	1:84:C:ILE:CB	1:84:C:ILE:CG1	25	34.74
(1,193)	1:84:C:ILE:N	1:84:C:ILE:CA	1:84:C:ILE:CB	1:84:C:ILE:CG1	17	31.87
(1,176)	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:CB	1:47:C:ILE:CG1	10	29.42
(1,176)	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:CB	1:47:C:ILE:CG1	2	27.78
(1,185)	1:72:C:VAL:N	1:72:C:VAL:CA	1:72:C:VAL:CB	1:72:C:VAL:CG1	19	27.75
(1,193)	1:84:C:ILE:N	1:84:C:ILE:CA	1:84:C:ILE:CB	1:84:C:ILE:CG1	8	27.08
(1,185)	1:72:C:VAL:N	1:72:C:VAL:CA	1:72:C:VAL:CB	1:72:C:VAL:CG1	23	14.63
(1,12)	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	1:10:C:MET:N	16	4.94
(1,38)	1:24:C:LYS:N	1:24:C:LYS:CA	1:24:C:LYS:C	1:25:C:GLY:N	1	4.84
(1,62)	1:37:C:LYS:N	1:37:C:LYS:CA	1:37:C:LYS:C	1:38:C:ALA:N	8	4.8
(1,87)	1:52:C:LYS:C	1:53:C:ASN:N	1:53:C:ASN:CA	1:53:C:ASN:C	4	4.66
(1,62)	1:37:C:LYS:N	1:37:C:LYS:CA	1:37:C:LYS:C	1:38:C:ALA:N	1	4.62
(1,5)	1:4:C:LYS:C	1:5:C:ALA:N	1:5:C:ALA:CA	1:5:C:ALA:C	23	4.4
(1,62)	1:37:C:LYS:N	1:37:C:LYS:CA	1:37:C:LYS:C	1:38:C:ALA:N	25	4.28
(1,56)	1:34:C:ASN:N	1:34:C:ASN:CA	1:34:C:ASN:C	1:35:C:GLN:N	23	4.28
(1,65)	1:38:C:ALA:C	1:39:C:THR:N	1:39:C:THR:CA	1:39:C:THR:C	24	4.27
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	8	4.25
(1,56)	1:34:C:ASN:N	1:34:C:ASN:CA	1:34:C:ASN:C	1:35:C:GLN:N	14	4.16
(1,38)	1:24:C:LYS:N	1:24:C:LYS:CA	1:24:C:LYS:C	1:25:C:GLY:N	19	4.13
(1,9)	1:7:C:GLU:N	1:7:C:GLU:CA	1:7:C:GLU:C	1:8:C:GLU:N	16	4.13
(1,5)	1:4:C:LYS:C	1:5:C:ALA:N	1:5:C:ALA:CA	1:5:C:ALA:C	17	4.08
(1,118)	1:70:C:SER:C	1:71:C:THR:N	1:71:C:THR:CA	1:71:C:THR:C	24	4.01
(1,171)	1:31:C:MET:N	1:31:C:MET:CA	1:31:C:MET:CB	1:31:C:MET:CG	15	3.93
(1,14)	1:10:C:MET:N	1:10:C:MET:CA	1:10:C:MET:C	1:11:C:ASN:N	12	3.9
(1,12)	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	1:10:C:MET:N	14	3.89
(1,12)	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	1:10:C:MET:N	18	3.85
(1,56)	1:34:C:ASN:N	1:34:C:ASN:CA	1:34:C:ASN:C	1:35:C:GLN:N	4	3.8
(1,155)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:C	1:92:C:LYS:N	17	3.77

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,56)	1:34:C:ASN:N	1:34:C:ASN:CA	1:34:C:ASN:C	1:35:C:GLN:N	2	3.73
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	2	3.7
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	7	3.64
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	1	3.63
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	10	3.54
(1,68)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:C	1:41:C:SER:N	13	3.53
(1,38)	1:24:C:LYS:N	1:24:C:LYS:CA	1:24:C:LYS:C	1:25:C:GLY:N	22	3.5
(1,62)	1:37:C:LYS:N	1:37:C:LYS:CA	1:37:C:LYS:C	1:38:C:ALA:N	20	3.47
(1,43)	1:27:C:LEU:C	1:28:C:SER:N	1:28:C:SER:CA	1:28:C:SER:C	22	3.47
(1,14)	1:10:C:MET:N	1:10:C:MET:CA	1:10:C:MET:C	1:11:C:ASN:N	3	3.46
(1,62)	1:37:C:LYS:N	1:37:C:LYS:CA	1:37:C:LYS:C	1:38:C:ALA:N	21	3.44
(1,12)	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	1:10:C:MET:N	15	3.41
(1,56)	1:34:C:ASN:N	1:34:C:ASN:CA	1:34:C:ASN:C	1:35:C:GLN:N	7	3.4
(1,68)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:C	1:41:C:SER:N	10	3.39
(1,14)	1:10:C:MET:N	1:10:C:MET:CA	1:10:C:MET:C	1:11:C:ASN:N	22	3.39
(1,141)	1:82:C:LEU:C	1:83:C:ASN:N	1:83:C:ASN:CA	1:83:C:ASN:C	2	3.34
(1,65)	1:38:C:ALA:C	1:39:C:THR:N	1:39:C:THR:CA	1:39:C:THR:C	22	3.33
(1,78)	1:46:C:GLY:C	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:C	24	3.32
(1,52)	1:32:C:ASN:N	1:32:C:ASN:CA	1:32:C:ASN:C	1:33:C:GLY:N	12	3.27
(1,38)	1:24:C:LYS:N	1:24:C:LYS:CA	1:24:C:LYS:C	1:25:C:GLY:N	2	3.27
(1,130)	1:77:C:ASN:N	1:77:C:ASN:CA	1:77:C:ASN:C	1:78:C:ASP:N	6	3.23
(1,51)	1:31:C:MET:C	1:32:C:ASN:N	1:32:C:ASN:CA	1:32:C:ASN:C	5	3.23
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	14	3.21
(1,56)	1:34:C:ASN:N	1:34:C:ASN:CA	1:34:C:ASN:C	1:35:C:GLN:N	16	3.19
(1,52)	1:32:C:ASN:N	1:32:C:ASN:CA	1:32:C:ASN:C	1:33:C:GLY:N	1	3.14
(1,153)	1:90:C:GLU:N	1:90:C:GLU:CA	1:90:C:GLU:C	1:91:C:ILE:N	6	3.12
(1,10)	1:8:C:GLU:N	1:8:C:GLU:CA	1:8:C:GLU:C	1:9:C:GLN:N	15	3.12
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	6	3.11
(1,62)	1:37:C:LYS:N	1:37:C:LYS:CA	1:37:C:LYS:C	1:38:C:ALA:N	9	3.05
(1,130)	1:77:C:ASN:N	1:77:C:ASN:CA	1:77:C:ASN:C	1:78:C:ASP:N	21	3.02
(1,155)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:C	1:92:C:LYS:N	12	3.01
(1,9)	1:7:C:GLU:N	1:7:C:GLU:CA	1:7:C:GLU:C	1:8:C:GLU:N	11	3.01
(1,184)	1:71:C:THR:N	1:71:C:THR:CA	1:71:C:THR:CB	1:71:C:THR:OG1	4	2.98
(1,51)	1:31:C:MET:C	1:32:C:ASN:N	1:32:C:ASN:CA	1:32:C:ASN:C	17	2.96
(1,9)	1:7:C:GLU:N	1:7:C:GLU:CA	1:7:C:GLU:C	1:8:C:GLU:N	9	2.94
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	23	2.93
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	7	2.91
(1,130)	1:77:C:ASN:N	1:77:C:ASN:CA	1:77:C:ASN:C	1:78:C:ASP:N	11	2.91
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	5	2.88
(1,68)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:C	1:41:C:SER:N	18	2.88
(1,141)	1:82:C:LEU:C	1:83:C:ASN:N	1:83:C:ASN:CA	1:83:C:ASN:C	17	2.81
(1,12)	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	1:10:C:MET:N	17	2.8
(1,14)	1:10:C:MET:N	1:10:C:MET:CA	1:10:C:MET:C	1:11:C:ASN:N	5	2.78
(1,48)	1:30:C:SER:N	1:30:C:SER:CA	1:30:C:SER:C	1:31:C:MET:N	25	2.77
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	2	2.75
(1,51)	1:31:C:MET:C	1:32:C:ASN:N	1:32:C:ASN:CA	1:32:C:ASN:C	22	2.75
(1,12)	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	1:10:C:MET:N	6	2.73
(1,12)	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	1:10:C:MET:N	19	2.72
(1,87)	1:52:C:LYS:C	1:53:C:ASN:N	1:53:C:ASN:CA	1:53:C:ASN:C	5	2.69
(1,9)	1:7:C:GLU:N	1:7:C:GLU:CA	1:7:C:GLU:C	1:8:C:GLU:N	19	2.67
(1,130)	1:77:C:ASN:N	1:77:C:ASN:CA	1:77:C:ASN:C	1:78:C:ASP:N	16	2.66

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,38)	1:24:C:LYS:N	1:24:C:LYS:CA	1:24:C:LYS:C	1:25:C:GLY:N	11	2.66
(1,11)	1:8:C:GLU:C	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	17	2.66
(1,39)	1:25:C:GLY:C	1:26:C:LYS:N	1:26:C:LYS:CA	1:26:C:LYS:C	24	2.65
(1,153)	1:90:C:GLU:N	1:90:C:GLU:CA	1:90:C:GLU:C	1:91:C:ILE:N	12	2.63
(1,65)	1:38:C:ALA:C	1:39:C:THR:N	1:39:C:THR:CA	1:39:C:THR:C	4	2.63
(1,9)	1:7:C:GLU:N	1:7:C:GLU:CA	1:7:C:GLU:C	1:8:C:GLU:N	22	2.63
(1,12)	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	1:10:C:MET:N	1	2.62
(1,79)	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:C	1:48:C:SER:N	4	2.6
(1,67)	1:39:C:THR:C	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:C	22	2.6
(1,141)	1:82:C:LEU:C	1:83:C:ASN:N	1:83:C:ASN:CA	1:83:C:ASN:C	14	2.57
(1,68)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:C	1:41:C:SER:N	19	2.57
(1,63)	1:37:C:LYS:C	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	10	2.56
(1,9)	1:7:C:GLU:N	1:7:C:GLU:CA	1:7:C:GLU:C	1:8:C:GLU:N	2	2.56
(1,65)	1:38:C:ALA:C	1:39:C:THR:N	1:39:C:THR:CA	1:39:C:THR:C	8	2.55
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	11	2.52
(1,141)	1:82:C:LEU:C	1:83:C:ASN:N	1:83:C:ASN:CA	1:83:C:ASN:C	6	2.51
(1,52)	1:32:C:ASN:N	1:32:C:ASN:CA	1:32:C:ASN:C	1:33:C:GLY:N	21	2.51
(1,130)	1:77:C:ASN:N	1:77:C:ASN:CA	1:77:C:ASN:C	1:78:C:ASP:N	4	2.5
(1,12)	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	1:10:C:MET:N	5	2.49
(1,56)	1:34:C:ASN:N	1:34:C:ASN:CA	1:34:C:ASN:C	1:35:C:GLN:N	8	2.48
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	17	2.47
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	9	2.45
(1,8)	1:6:C:LEU:C	1:7:C:GLU:N	1:7:C:GLU:CA	1:7:C:GLU:C	12	2.45
(1,52)	1:32:C:ASN:N	1:32:C:ASN:CA	1:32:C:ASN:C	1:33:C:GLY:N	14	2.44
(1,63)	1:37:C:LYS:C	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	7	2.43
(1,68)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:C	1:41:C:SER:N	8	2.41
(1,38)	1:24:C:LYS:N	1:24:C:LYS:CA	1:24:C:LYS:C	1:25:C:GLY:N	16	2.4
(1,141)	1:82:C:LEU:C	1:83:C:ASN:N	1:83:C:ASN:CA	1:83:C:ASN:C	16	2.39
(1,19)	1:12:C:SER:C	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:C	2	2.39
(1,56)	1:34:C:ASN:N	1:34:C:ASN:CA	1:34:C:ASN:C	1:35:C:GLN:N	19	2.38
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	19	2.35
(1,8)	1:6:C:LEU:C	1:7:C:GLU:N	1:7:C:GLU:CA	1:7:C:GLU:C	13	2.35
(1,39)	1:25:C:GLY:C	1:26:C:LYS:N	1:26:C:LYS:CA	1:26:C:LYS:C	10	2.34
(1,7)	1:5:C:ALA:C	1:6:C:LEU:N	1:6:C:LEU:CA	1:6:C:LEU:C	21	2.34
(1,64)	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	1:39:C:THR:N	14	2.33
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	4	2.32
(1,65)	1:38:C:ALA:C	1:39:C:THR:N	1:39:C:THR:CA	1:39:C:THR:C	23	2.32
(1,7)	1:5:C:ALA:C	1:6:C:LEU:N	1:6:C:LEU:CA	1:6:C:LEU:C	6	2.32
(1,30)	1:18:C:ASP:N	1:18:C:ASP:CA	1:18:C:ASP:C	1:19:C:LYS:N	7	2.31
(1,63)	1:37:C:LYS:C	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	22	2.3
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	20	2.28
(1,101)	1:59:C:ASN:C	1:60:C:GLY:N	1:60:C:GLY:CA	1:60:C:GLY:C	1	2.26
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	13	2.25
(1,59)	1:35:C:GLN:C	1:36:C:LEU:N	1:36:C:LEU:CA	1:36:C:LEU:C	25	2.25
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	6	2.24
(1,130)	1:77:C:ASN:N	1:77:C:ASN:CA	1:77:C:ASN:C	1:78:C:ASP:N	15	2.24
(1,62)	1:37:C:LYS:N	1:37:C:LYS:CA	1:37:C:LYS:C	1:38:C:ALA:N	16	2.22
(1,52)	1:32:C:ASN:N	1:32:C:ASN:CA	1:32:C:ASN:C	1:33:C:GLY:N	15	2.2
(1,152)	1:89:C:ILE:C	1:90:C:GLU:N	1:90:C:GLU:CA	1:90:C:GLU:C	12	2.19
(1,78)	1:46:C:GLY:C	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:C	23	2.19
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	25	2.18

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,52)	1:32:C:ASN:N	1:32:C:ASN:CA	1:32:C:ASN:C	1:33:C:GLY:N	6	2.18
(1,7)	1:5:C:ALA:C	1:6:C:LEU:N	1:6:C:LEU:CA	1:6:C:LEU:C	1	2.18
(1,149)	1:88:C:TYR:N	1:88:C:TYR:CA	1:88:C:TYR:C	1:89:C:ILE:N	19	2.15
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	21	2.14
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	25	2.14
(1,68)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:C	1:41:C:SER:N	7	2.14
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	21	2.12
(1,87)	1:52:C:LYS:C	1:53:C:ASN:N	1:53:C:ASN:CA	1:53:C:ASN:C	9	2.12
(1,130)	1:77:C:ASN:N	1:77:C:ASN:CA	1:77:C:ASN:C	1:78:C:ASP:N	9	2.11
(1,65)	1:38:C:ALA:C	1:39:C:THR:N	1:39:C:THR:CA	1:39:C:THR:C	20	2.11
(1,12)	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	1:10:C:MET:N	2	2.09
(1,7)	1:5:C:ALA:C	1:6:C:LEU:N	1:6:C:LEU:CA	1:6:C:LEU:C	23	2.08
(1,162)	1:10:C:MET:N	1:10:C:MET:CA	1:10:C:MET:CB	1:10:C:MET:CG	11	2.07
(1,155)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:C	1:92:C:LYS:N	13	2.06
(1,36)	1:22:C:LYS:N	1:22:C:LYS:CA	1:22:C:LYS:C	1:23:C:GLY:N	13	2.05
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	18	2.03
(1,141)	1:82:C:LEU:C	1:83:C:ASN:N	1:83:C:ASN:CA	1:83:C:ASN:C	19	2.0
(1,112)	1:66:C:PHE:N	1:66:C:PHE:CA	1:66:C:PHE:C	1:67:C:ASN:N	1	2.0
(1,103)	1:60:C:GLY:C	1:61:C:GLU:N	1:61:C:GLU:CA	1:61:C:GLU:C	4	2.0
(1,63)	1:37:C:LYS:C	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	24	1.98
(1,10)	1:8:C:GLU:N	1:8:C:GLU:CA	1:8:C:GLU:C	1:9:C:GLN:N	22	1.98
(1,79)	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:C	1:48:C:SER:N	13	1.97
(1,7)	1:5:C:ALA:C	1:6:C:LEU:N	1:6:C:LEU:CA	1:6:C:LEU:C	17	1.97
(1,78)	1:46:C:GLY:C	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:C	25	1.96
(1,62)	1:37:C:LYS:N	1:37:C:LYS:CA	1:37:C:LYS:C	1:38:C:ALA:N	24	1.96
(1,14)	1:10:C:MET:N	1:10:C:MET:CA	1:10:C:MET:C	1:11:C:ASN:N	23	1.96
(1,38)	1:24:C:LYS:N	1:24:C:LYS:CA	1:24:C:LYS:C	1:25:C:GLY:N	21	1.95
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	18	1.94
(1,2)	1:3:C:GLN:N	1:3:C:GLN:CA	1:3:C:GLN:C	1:4:C:LYS:N	11	1.94
(1,152)	1:89:C:ILE:C	1:90:C:GLU:N	1:90:C:GLU:CA	1:90:C:GLU:C	6	1.93
(1,86)	1:52:C:LYS:N	1:52:C:LYS:CA	1:52:C:LYS:C	1:53:C:ASN:N	21	1.92
(1,68)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:C	1:41:C:SER:N	17	1.92
(1,52)	1:32:C:ASN:N	1:32:C:ASN:CA	1:32:C:ASN:C	1:33:C:GLY:N	2	1.92
(1,38)	1:24:C:LYS:N	1:24:C:LYS:CA	1:24:C:LYS:C	1:25:C:GLY:N	4	1.92
(1,1)	1:2:C:ASN:C	1:3:C:GLN:N	1:3:C:GLN:CA	1:3:C:GLN:C	19	1.92
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	24	1.89
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	16	1.89
(1,38)	1:24:C:LYS:N	1:24:C:LYS:CA	1:24:C:LYS:C	1:25:C:GLY:N	15	1.89
(1,19)	1:12:C:SER:C	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:C	24	1.89
(1,48)	1:30:C:SER:N	1:30:C:SER:CA	1:30:C:SER:C	1:31:C:MET:N	19	1.88
(1,7)	1:5:C:ALA:C	1:6:C:LEU:N	1:6:C:LEU:CA	1:6:C:LEU:C	5	1.88
(1,63)	1:37:C:LYS:C	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	12	1.85
(1,5)	1:4:C:LYS:C	1:5:C:ALA:N	1:5:C:ALA:CA	1:5:C:ALA:C	7	1.85
(1,79)	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:C	1:48:C:SER:N	12	1.84
(1,52)	1:32:C:ASN:N	1:32:C:ASN:CA	1:32:C:ASN:C	1:33:C:GLY:N	19	1.84
(1,11)	1:8:C:GLU:C	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	14	1.84
(1,155)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:C	1:92:C:LYS:N	25	1.83
(1,153)	1:90:C:GLU:N	1:90:C:GLU:CA	1:90:C:GLU:C	1:91:C:ILE:N	13	1.82
(1,141)	1:82:C:LEU:C	1:83:C:ASN:N	1:83:C:ASN:CA	1:83:C:ASN:C	5	1.8
(1,56)	1:34:C:ASN:N	1:34:C:ASN:CA	1:34:C:ASN:C	1:35:C:GLN:N	5	1.8
(1,12)	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	1:10:C:MET:N	4	1.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,170)	1:29:C:LEU:N	1:29:C:LEU:CA	1:29:C:LEU:CB	1:29:C:LEU:CG	25	1.79
(1,141)	1:82:C:LEU:C	1:83:C:ASN:N	1:83:C:ASN:CA	1:83:C:ASN:C	18	1.79
(1,90)	1:54:C:TRP:N	1:54:C:TRP:CA	1:54:C:TRP:C	1:55:C:GLY:N	7	1.79
(1,130)	1:77:C:ASN:N	1:77:C:ASN:CA	1:77:C:ASN:C	1:78:C:ASP:N	3	1.78
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	10	1.76
(1,130)	1:77:C:ASN:N	1:77:C:ASN:CA	1:77:C:ASN:C	1:78:C:ASP:N	5	1.76
(1,58)	1:35:C:GLN:N	1:35:C:GLN:CA	1:35:C:GLN:C	1:36:C:LEU:N	1	1.75
(1,141)	1:82:C:LEU:C	1:83:C:ASN:N	1:83:C:ASN:CA	1:83:C:ASN:C	4	1.74
(1,20)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:C	1:14:C:ASN:N	8	1.74
(1,12)	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	1:10:C:MET:N	22	1.74
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	22	1.73
(1,130)	1:77:C:ASN:N	1:77:C:ASN:CA	1:77:C:ASN:C	1:78:C:ASP:N	24	1.73
(1,79)	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:C	1:48:C:SER:N	11	1.73
(1,65)	1:38:C:ALA:C	1:39:C:THR:N	1:39:C:THR:CA	1:39:C:THR:C	5	1.73
(1,62)	1:37:C:LYS:N	1:37:C:LYS:CA	1:37:C:LYS:C	1:38:C:ALA:N	22	1.72
(1,118)	1:70:C:SER:C	1:71:C:THR:N	1:71:C:THR:CA	1:71:C:THR:C	6	1.71
(1,189)	1:78:C:ASP:N	1:78:C:ASP:CA	1:78:C:ASP:CB	1:78:C:ASP:CG	15	1.7
(1,118)	1:70:C:SER:C	1:71:C:THR:N	1:71:C:THR:CA	1:71:C:THR:C	18	1.7
(1,12)	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	1:10:C:MET:N	7	1.7
(1,7)	1:5:C:ALA:C	1:6:C:LEU:N	1:6:C:LEU:CA	1:6:C:LEU:C	4	1.7
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	16	1.68
(1,103)	1:60:C:GLY:C	1:61:C:GLU:N	1:61:C:GLU:CA	1:61:C:GLU:C	25	1.67
(1,141)	1:82:C:LEU:C	1:83:C:ASN:N	1:83:C:ASN:CA	1:83:C:ASN:C	3	1.66
(1,63)	1:37:C:LYS:C	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	11	1.66
(1,153)	1:90:C:GLU:N	1:90:C:GLU:CA	1:90:C:GLU:C	1:91:C:ILE:N	14	1.65
(1,54)	1:33:C:GLY:N	1:33:C:GLY:CA	1:33:C:GLY:C	1:34:C:ASN:N	22	1.65
(1,68)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:C	1:41:C:SER:N	12	1.64
(1,14)	1:10:C:MET:N	1:10:C:MET:CA	1:10:C:MET:C	1:11:C:ASN:N	9	1.63
(1,149)	1:88:C:TYR:N	1:88:C:TYR:CA	1:88:C:TYR:C	1:89:C:ILE:N	12	1.62
(1,141)	1:82:C:LEU:C	1:83:C:ASN:N	1:83:C:ASN:CA	1:83:C:ASN:C	9	1.6
(1,5)	1:4:C:LYS:C	1:5:C:ALA:N	1:5:C:ALA:CA	1:5:C:ALA:C	6	1.6
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	15	1.59
(1,78)	1:46:C:GLY:C	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:C	10	1.59
(1,70)	1:41:C:SER:C	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:C	3	1.59
(1,40)	1:26:C:LYS:N	1:26:C:LYS:CA	1:26:C:LYS:C	1:27:C:LEU:N	13	1.59
(1,19)	1:12:C:SER:C	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:C	5	1.58
(1,86)	1:52:C:LYS:N	1:52:C:LYS:CA	1:52:C:LYS:C	1:53:C:ASN:N	15	1.57
(1,7)	1:5:C:ALA:C	1:6:C:LEU:N	1:6:C:LEU:CA	1:6:C:LEU:C	13	1.57
(1,2)	1:3:C:GLN:N	1:3:C:GLN:CA	1:3:C:GLN:C	1:4:C:LYS:N	18	1.57
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	11	1.56
(1,63)	1:37:C:LYS:C	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	1	1.55
(1,103)	1:60:C:GLY:C	1:61:C:GLU:N	1:61:C:GLU:CA	1:61:C:GLU:C	19	1.54
(1,153)	1:90:C:GLU:N	1:90:C:GLU:CA	1:90:C:GLU:C	1:91:C:ILE:N	7	1.53
(1,44)	1:28:C:SER:N	1:28:C:SER:CA	1:28:C:SER:C	1:29:C:LEU:N	6	1.53
(1,118)	1:70:C:SER:C	1:71:C:THR:N	1:71:C:THR:CA	1:71:C:THR:C	25	1.52
(1,64)	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	1:39:C:THR:N	2	1.52
(1,20)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:C	1:14:C:ASN:N	6	1.52
(1,70)	1:41:C:SER:C	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:C	24	1.51
(1,38)	1:24:C:LYS:N	1:24:C:LYS:CA	1:24:C:LYS:C	1:25:C:GLY:N	20	1.51
(1,19)	1:12:C:SER:C	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:C	3	1.51
(1,86)	1:52:C:LYS:N	1:52:C:LYS:CA	1:52:C:LYS:C	1:53:C:ASN:N	12	1.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,48)	1:30:C:SER:N	1:30:C:SER:CA	1:30:C:SER:C	1:31:C:MET:N	22	1.49
(1,155)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:C	1:92:C:LYS:N	15	1.48
(1,64)	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	1:39:C:THR:N	15	1.48
(1,103)	1:60:C:GLY:C	1:61:C:GLU:N	1:61:C:GLU:CA	1:61:C:GLU:C	6	1.47
(1,103)	1:60:C:GLY:C	1:61:C:GLU:N	1:61:C:GLU:CA	1:61:C:GLU:C	13	1.47
(1,10)	1:8:C:GLU:N	1:8:C:GLU:CA	1:8:C:GLU:C	1:9:C:GLN:N	7	1.47
(1,70)	1:41:C:SER:C	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:C	25	1.45
(1,7)	1:5:C:ALA:C	1:6:C:LEU:N	1:6:C:LEU:CA	1:6:C:LEU:C	12	1.45
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	14	1.43
(1,141)	1:82:C:LEU:C	1:83:C:ASN:N	1:83:C:ASN:CA	1:83:C:ASN:C	25	1.43
(1,79)	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:C	1:48:C:SER:N	6	1.43
(1,103)	1:60:C:GLY:C	1:61:C:GLU:N	1:61:C:GLU:CA	1:61:C:GLU:C	18	1.42
(1,68)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:C	1:41:C:SER:N	4	1.42
(1,9)	1:7:C:GLU:N	1:7:C:GLU:CA	1:7:C:GLU:C	1:8:C:GLU:N	15	1.42
(1,90)	1:54:C:TRP:N	1:54:C:TRP:CA	1:54:C:TRP:C	1:55:C:GLY:N	16	1.4
(1,156)	1:91:C:ILE:C	1:92:C:LYS:N	1:92:C:LYS:CA	1:92:C:LYS:C	2	1.39
(1,68)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:C	1:41:C:SER:N	11	1.38
(1,57)	1:34:C:ASN:C	1:35:C:GLN:N	1:35:C:GLN:CA	1:35:C:GLN:C	22	1.38
(1,55)	1:33:C:GLY:C	1:34:C:ASN:N	1:34:C:ASN:CA	1:34:C:ASN:C	17	1.38
(1,155)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:C	1:92:C:LYS:N	19	1.37
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	4	1.37
(1,5)	1:4:C:LYS:C	1:5:C:ALA:N	1:5:C:ALA:CA	1:5:C:ALA:C	21	1.37
(1,175)	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:CB	1:42:C:ASN:CG	17	1.36
(1,130)	1:77:C:ASN:N	1:77:C:ASN:CA	1:77:C:ASN:C	1:78:C:ASP:N	14	1.36
(1,52)	1:32:C:ASN:N	1:32:C:ASN:CA	1:32:C:ASN:C	1:33:C:GLY:N	23	1.36
(1,14)	1:10:C:MET:N	1:10:C:MET:CA	1:10:C:MET:C	1:11:C:ASN:N	8	1.36
(1,141)	1:82:C:LEU:C	1:83:C:ASN:N	1:83:C:ASN:CA	1:83:C:ASN:C	15	1.34
(1,2)	1:3:C:GLN:N	1:3:C:GLN:CA	1:3:C:GLN:C	1:4:C:LYS:N	19	1.34
(1,152)	1:89:C:ILE:C	1:90:C:GLU:N	1:90:C:GLU:CA	1:90:C:GLU:C	25	1.33
(1,79)	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:C	1:48:C:SER:N	25	1.33
(1,10)	1:8:C:GLU:N	1:8:C:GLU:CA	1:8:C:GLU:C	1:9:C:GLN:N	8	1.33
(1,155)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:C	1:92:C:LYS:N	8	1.32
(1,68)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:C	1:41:C:SER:N	22	1.32
(1,7)	1:5:C:ALA:C	1:6:C:LEU:N	1:6:C:LEU:CA	1:6:C:LEU:C	22	1.32
(1,90)	1:54:C:TRP:N	1:54:C:TRP:CA	1:54:C:TRP:C	1:55:C:GLY:N	22	1.31
(1,130)	1:77:C:ASN:N	1:77:C:ASN:CA	1:77:C:ASN:C	1:78:C:ASP:N	18	1.3
(1,45)	1:28:C:SER:C	1:29:C:LEU:N	1:29:C:LEU:CA	1:29:C:LEU:C	22	1.3
(1,14)	1:10:C:MET:N	1:10:C:MET:CA	1:10:C:MET:C	1:11:C:ASN:N	10	1.3
(1,153)	1:90:C:GLU:N	1:90:C:GLU:CA	1:90:C:GLU:C	1:91:C:ILE:N	18	1.29
(1,49)	1:30:C:SER:C	1:31:C:MET:N	1:31:C:MET:CA	1:31:C:MET:C	12	1.29
(1,20)	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:C	1:14:C:ASN:N	16	1.29
(1,5)	1:4:C:LYS:C	1:5:C:ALA:N	1:5:C:ALA:CA	1:5:C:ALA:C	12	1.29
(1,152)	1:89:C:ILE:C	1:90:C:GLU:N	1:90:C:GLU:CA	1:90:C:GLU:C	17	1.28
(1,68)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:C	1:41:C:SER:N	5	1.28
(1,153)	1:90:C:GLU:N	1:90:C:GLU:CA	1:90:C:GLU:C	1:91:C:ILE:N	23	1.27
(1,64)	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	1:39:C:THR:N	17	1.27
(1,59)	1:35:C:GLN:C	1:36:C:LEU:N	1:36:C:LEU:CA	1:36:C:LEU:C	22	1.27
(1,55)	1:33:C:GLY:C	1:34:C:ASN:N	1:34:C:ASN:CA	1:34:C:ASN:C	25	1.27
(1,19)	1:12:C:SER:C	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:C	14	1.27
(1,5)	1:4:C:LYS:C	1:5:C:ALA:N	1:5:C:ALA:CA	1:5:C:ALA:C	19	1.26
(1,149)	1:88:C:TYR:N	1:88:C:TYR:CA	1:88:C:TYR:C	1:89:C:ILE:N	1	1.25

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,45)	1:28:C:SER:C	1:29:C:LEU:N	1:29:C:LEU:CA	1:29:C:LEU:C	7	1.24
(1,38)	1:24:C:LYS:N	1:24:C:LYS:CA	1:24:C:LYS:C	1:25:C:GLY:N	10	1.24
(1,38)	1:24:C:LYS:N	1:24:C:LYS:CA	1:24:C:LYS:C	1:25:C:GLY:N	14	1.24
(1,34)	1:20:C:LEU:N	1:20:C:LEU:CA	1:20:C:LEU:C	1:21:C:ASN:N	13	1.24
(1,118)	1:70:C:SER:C	1:71:C:THR:N	1:71:C:THR:CA	1:71:C:THR:C	20	1.22
(1,63)	1:37:C:LYS:C	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	3	1.2
(1,65)	1:38:C:ALA:C	1:39:C:THR:N	1:39:C:THR:CA	1:39:C:THR:C	21	1.19
(1,38)	1:24:C:LYS:N	1:24:C:LYS:CA	1:24:C:LYS:C	1:25:C:GLY:N	25	1.18
(1,73)	1:43:C:ALA:N	1:43:C:ALA:CA	1:43:C:ALA:C	1:44:C:GLY:N	25	1.17
(1,65)	1:38:C:ALA:C	1:39:C:THR:N	1:39:C:THR:CA	1:39:C:THR:C	11	1.17
(1,78)	1:46:C:GLY:C	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:C	9	1.15
(1,8)	1:6:C:LEU:C	1:7:C:GLU:N	1:7:C:GLU:CA	1:7:C:GLU:C	8	1.15
(1,44)	1:28:C:SER:N	1:28:C:SER:CA	1:28:C:SER:C	1:29:C:LEU:N	23	1.14
(1,39)	1:25:C:GLY:C	1:26:C:LYS:N	1:26:C:LYS:CA	1:26:C:LYS:C	11	1.14
(1,39)	1:25:C:GLY:C	1:26:C:LYS:N	1:26:C:LYS:CA	1:26:C:LYS:C	23	1.14
(1,149)	1:88:C:TYR:N	1:88:C:TYR:CA	1:88:C:TYR:C	1:89:C:ILE:N	20	1.13
(1,64)	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	1:39:C:THR:N	1	1.13
(1,19)	1:12:C:SER:C	1:13:C:ILE:N	1:13:C:ILE:CA	1:13:C:ILE:C	18	1.12
(1,54)	1:33:C:GLY:N	1:33:C:GLY:CA	1:33:C:GLY:C	1:34:C:ASN:N	21	1.11
(1,52)	1:32:C:ASN:N	1:32:C:ASN:CA	1:32:C:ASN:C	1:33:C:GLY:N	7	1.11
(1,50)	1:31:C:MET:N	1:31:C:MET:CA	1:31:C:MET:C	1:32:C:ASN:N	25	1.11
(1,48)	1:30:C:SER:N	1:30:C:SER:CA	1:30:C:SER:C	1:31:C:MET:N	11	1.11
(1,12)	1:9:C:GLN:N	1:9:C:GLN:CA	1:9:C:GLN:C	1:10:C:MET:N	20	1.11
(1,7)	1:5:C:ALA:C	1:6:C:LEU:N	1:6:C:LEU:CA	1:6:C:LEU:C	8	1.11
(1,68)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:C	1:41:C:SER:N	15	1.1
(1,64)	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	1:39:C:THR:N	20	1.1
(1,63)	1:37:C:LYS:C	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	2	1.1
(1,63)	1:37:C:LYS:C	1:38:C:ALA:N	1:38:C:ALA:CA	1:38:C:ALA:C	13	1.1
(1,14)	1:10:C:MET:N	1:10:C:MET:CA	1:10:C:MET:C	1:11:C:ASN:N	20	1.1
(1,147)	1:86:C:GLY:C	1:87:C:PRO:N	1:87:C:PRO:CA	1:87:C:PRO:C	24	1.09
(1,48)	1:30:C:SER:N	1:30:C:SER:CA	1:30:C:SER:C	1:31:C:MET:N	23	1.09
(1,79)	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:C	1:48:C:SER:N	7	1.08
(1,70)	1:41:C:SER:C	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:C	5	1.08
(1,56)	1:34:C:ASN:N	1:34:C:ASN:CA	1:34:C:ASN:C	1:35:C:GLN:N	3	1.08
(1,44)	1:28:C:SER:N	1:28:C:SER:CA	1:28:C:SER:C	1:29:C:LEU:N	4	1.07
(1,156)	1:91:C:ILE:C	1:92:C:LYS:N	1:92:C:LYS:CA	1:92:C:LYS:C	15	1.06
(1,155)	1:91:C:ILE:N	1:91:C:ILE:CA	1:91:C:ILE:C	1:92:C:LYS:N	5	1.05
(1,68)	1:40:C:SER:N	1:40:C:SER:CA	1:40:C:SER:C	1:41:C:SER:N	2	1.05
(1,70)	1:41:C:SER:C	1:42:C:ASN:N	1:42:C:ASN:CA	1:42:C:ASN:C	21	1.04
(1,153)	1:90:C:GLU:N	1:90:C:GLU:CA	1:90:C:GLU:C	1:91:C:ILE:N	9	1.03
(1,101)	1:59:C:ASN:C	1:60:C:GLY:N	1:60:C:GLY:CA	1:60:C:GLY:C	24	1.03
(1,87)	1:52:C:LYS:C	1:53:C:ASN:N	1:53:C:ASN:CA	1:53:C:ASN:C	11	1.03
(1,79)	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:C	1:48:C:SER:N	18	1.03
(1,56)	1:34:C:ASN:N	1:34:C:ASN:CA	1:34:C:ASN:C	1:35:C:GLN:N	15	1.03
(1,54)	1:33:C:GLY:N	1:33:C:GLY:CA	1:33:C:GLY:C	1:34:C:ASN:N	15	1.03
(1,79)	1:47:C:ILE:N	1:47:C:ILE:CA	1:47:C:ILE:C	1:48:C:SER:N	22	1.02
(1,51)	1:31:C:MET:C	1:32:C:ASN:N	1:32:C:ASN:CA	1:32:C:ASN:C	4	1.02
(1,42)	1:27:C:LEU:N	1:27:C:LEU:CA	1:27:C:LEU:C	1:28:C:SER:N	25	1.02
(1,7)	1:5:C:ALA:C	1:6:C:LEU:N	1:6:C:LEU:CA	1:6:C:LEU:C	25	1.0