



Full wwPDB NMR Structure Validation Report ⓘ

Dec 24, 2024 – 11:33 AM EST

PDB ID : 2AN7
BMRB ID : 4792
Title : Solution structure of the bacterial antidote ParD
Authors : Oberer, M.; Zangger, K.; Gruber, K.; Keller, W.
Deposited on : 2005-08-11

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

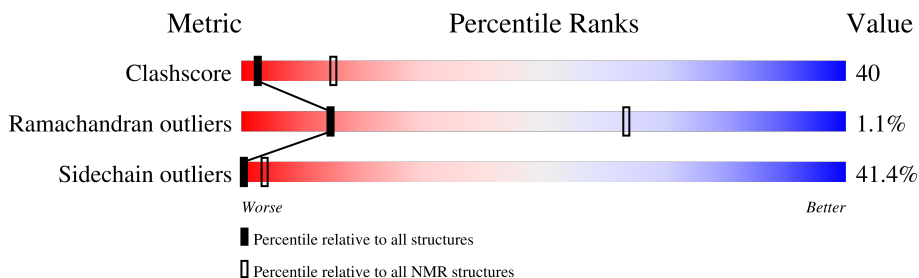
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 77%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	83	
1	B	83	

2 Ensemble composition and analysis

This entry contains 24 models. Model 1 is the overall representative, medoid model (most similar to other models).

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:2-A:35, B:102-B:135 (68)	0.54	1
2	A:39-A:55 (17)	2.35	24

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

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

The models can be grouped into 3 clusters. No single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2556 atoms, of which 1282 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Protein parD.

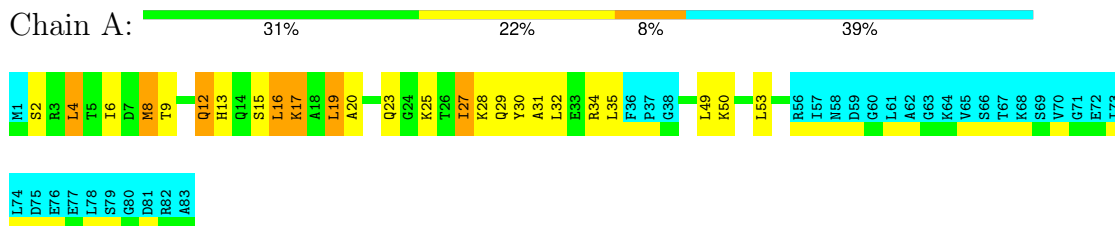
Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	83	1278	391	641	113	130	3	0
1	B	83	1278	391	641	113	130	3	0

4 Residue-property plots [i](#)

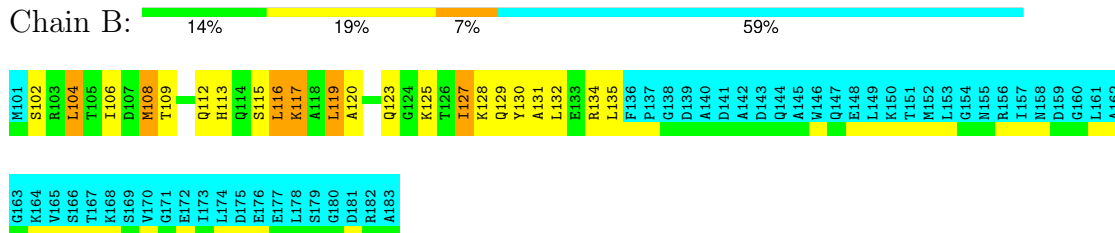
4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Protein parD



- Molecule 1: Protein parD

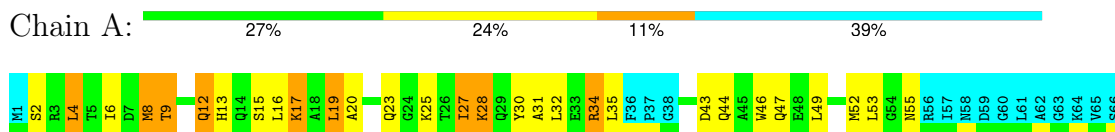


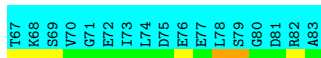
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

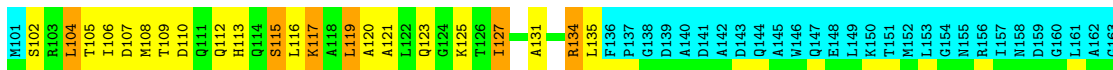
4.2.1 Score per residue for model 1 (medoid)

- Molecule 1: Protein parD



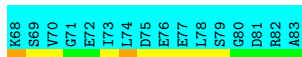


- Molecule 1: Protein parD



4.2.2 Score per residue for model 2

- Molecule 1: Protein parD

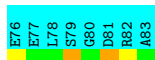
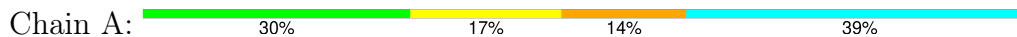


- Molecule 1: Protein parD



4.2.3 Score per residue for model 3

- Molecule 1: Protein parD

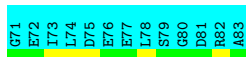
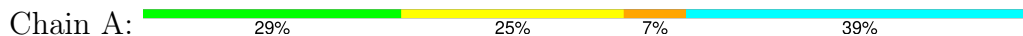


- Molecule 1: Protein parD



4.2.6 Score per residue for model 6

- Molecule 1: Protein parD

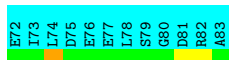
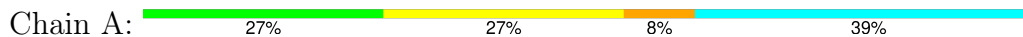


- Molecule 1: Protein parD

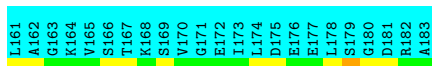
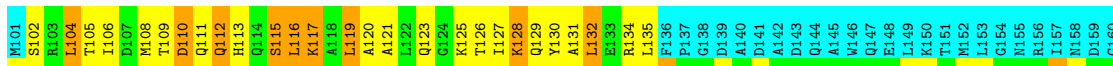


4.2.7 Score per residue for model 7

- Molecule 1: Protein parD

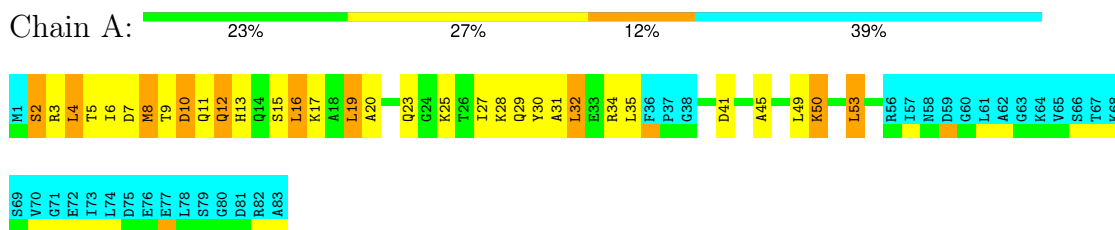


- Molecule 1: Protein parD

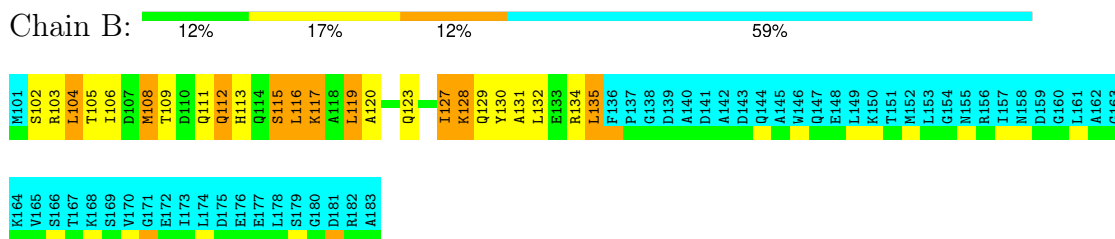


4.2.8 Score per residue for model 8

- Molecule 1: Protein parD

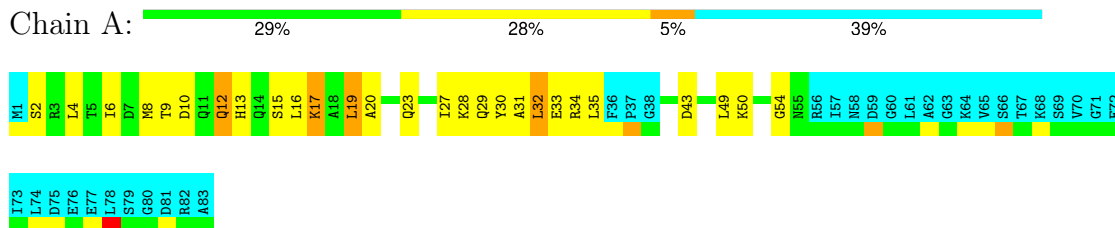


- Molecule 1: Protein parD

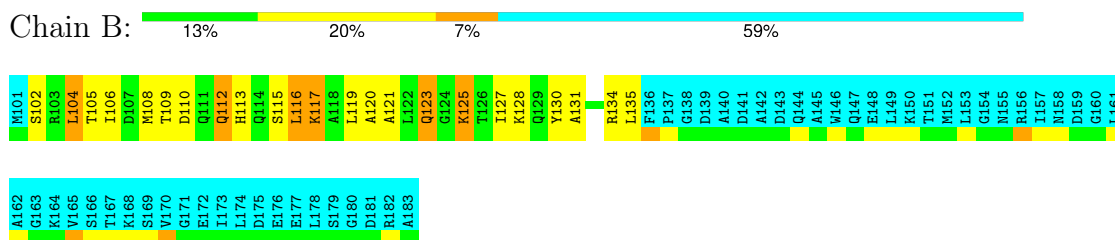


4.2.9 Score per residue for model 9

- Molecule 1: Protein parD

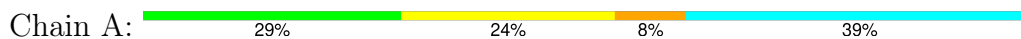


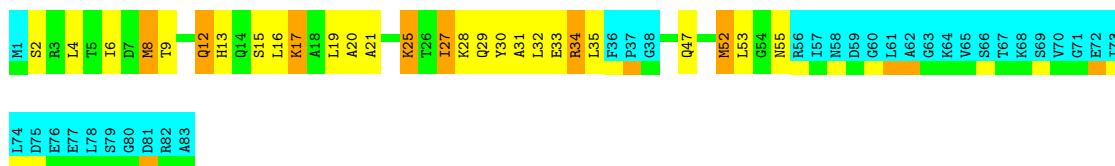
- Molecule 1: Protein parD



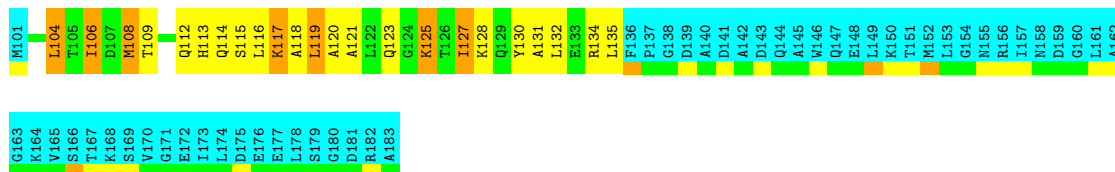
4.2.10 Score per residue for model 10

- Molecule 1: Protein parD



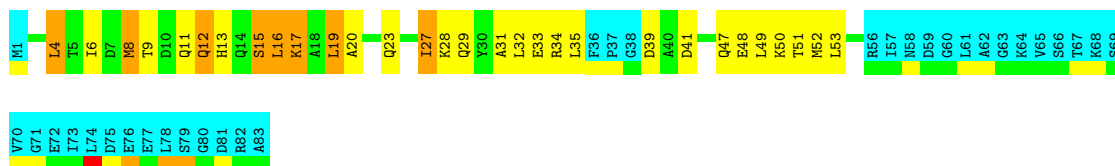
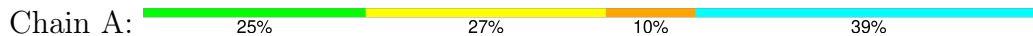


- Molecule 1: Protein parD

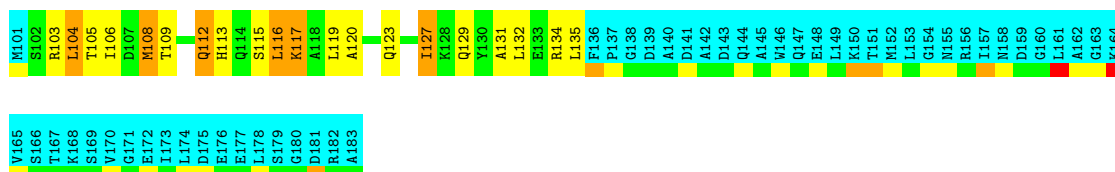


4.2.11 Score per residue for model 11

- Molecule 1: Protein parD

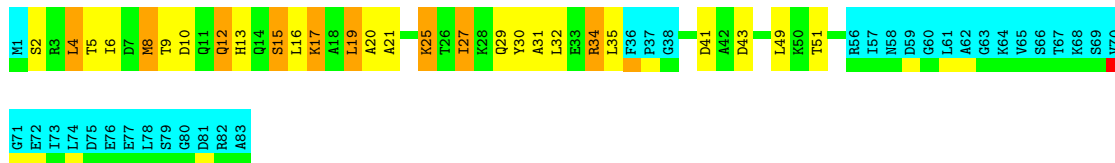
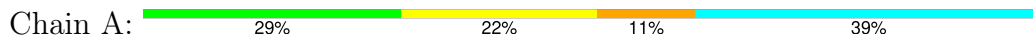


- Molecule 1: Protein parD

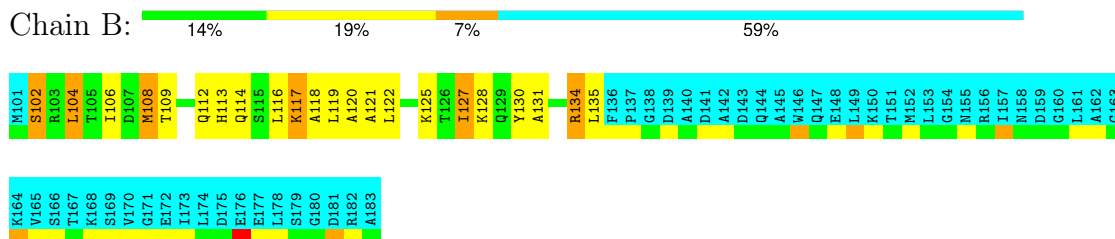


4.2.12 Score per residue for model 12

- Molecule 1: Protein parD

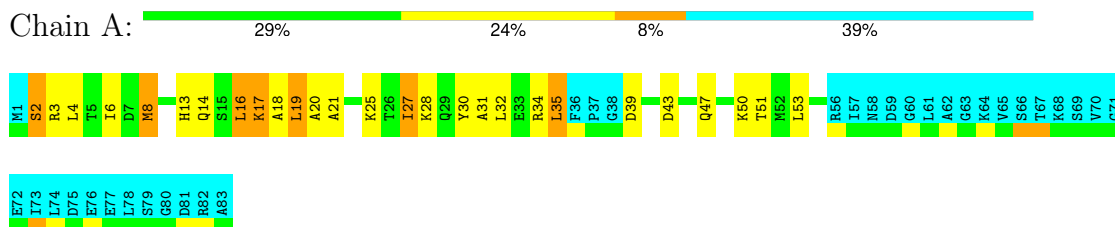


- Molecule 1: Protein parD

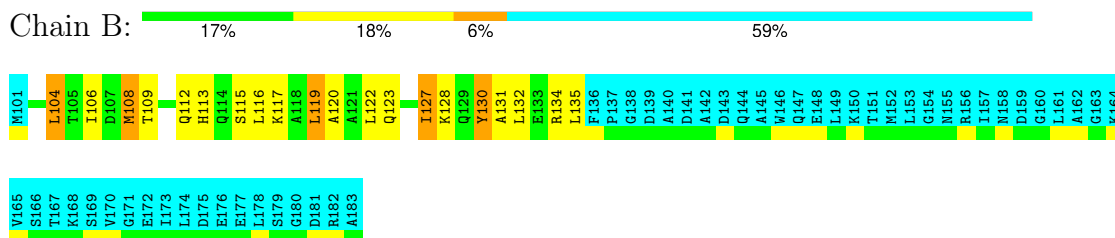


4.2.13 Score per residue for model 13

- Molecule 1: Protein parD

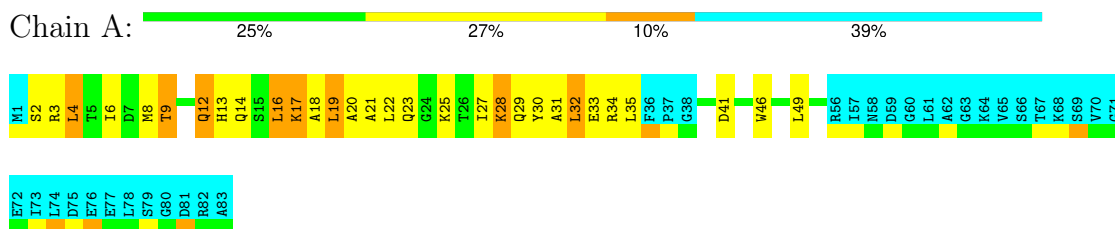


- Molecule 1: Protein parD



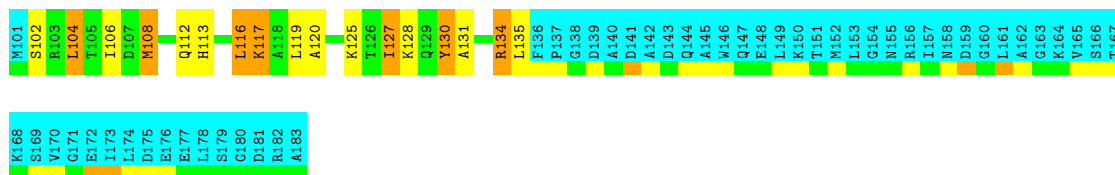
4.2.14 Score per residue for model 14

- Molecule 1: Protein parD



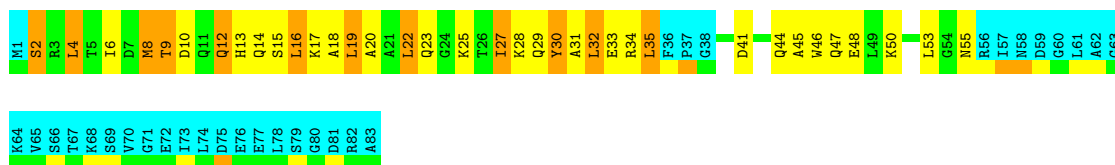
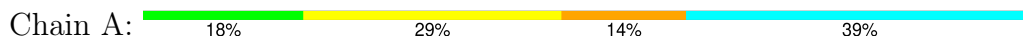
- Molecule 1: Protein parD



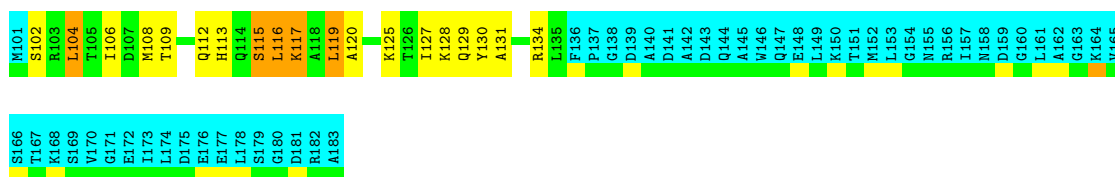


4.2.15 Score per residue for model 15

- Molecule 1: Protein parD

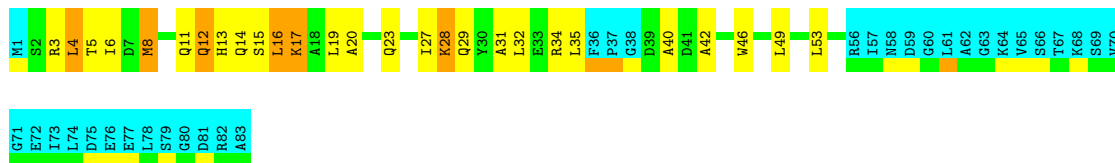
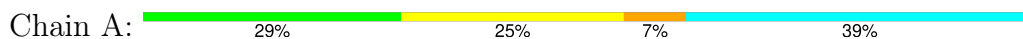


- Molecule 1: Protein parD

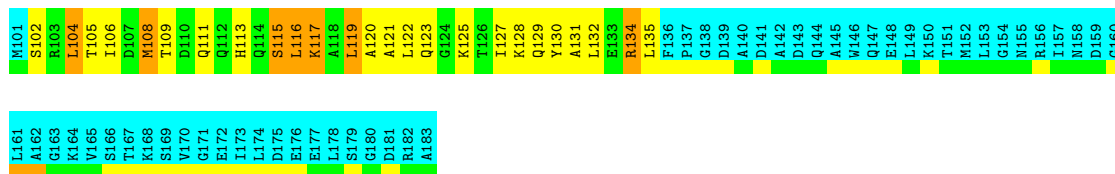


4.2.16 Score per residue for model 16

- Molecule 1: Protein parD

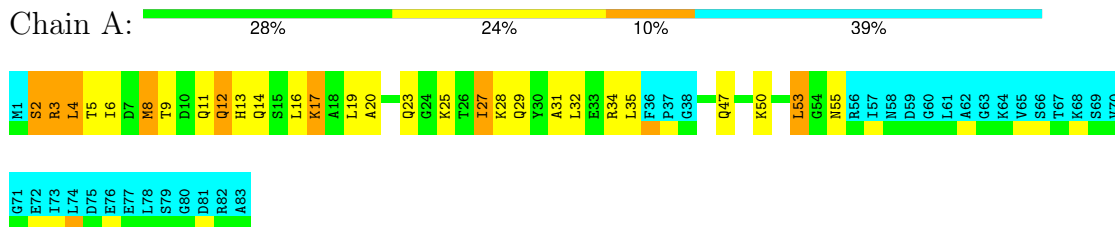


- Molecule 1: Protein parD

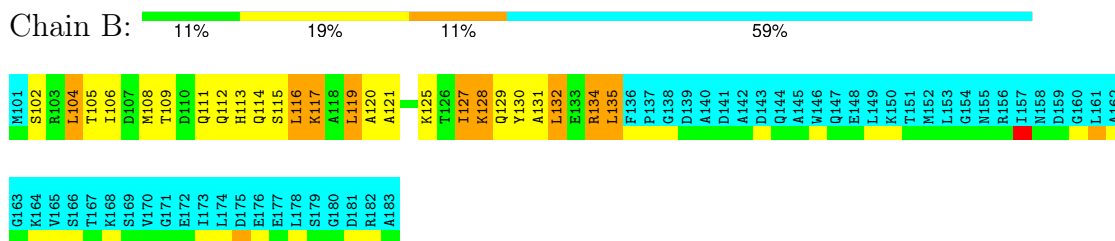


4.2.17 Score per residue for model 17

- Molecule 1: Protein parD

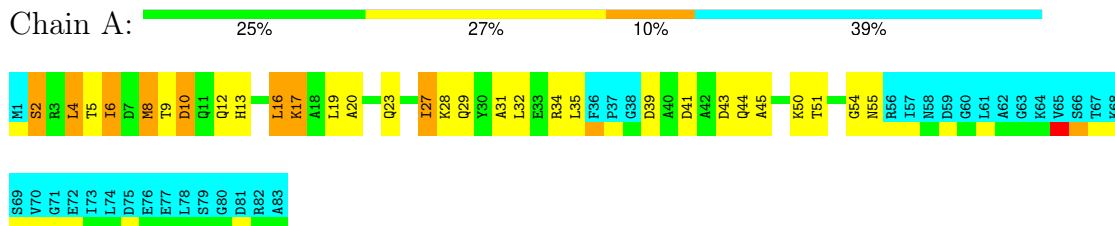


- Molecule 1: Protein parD

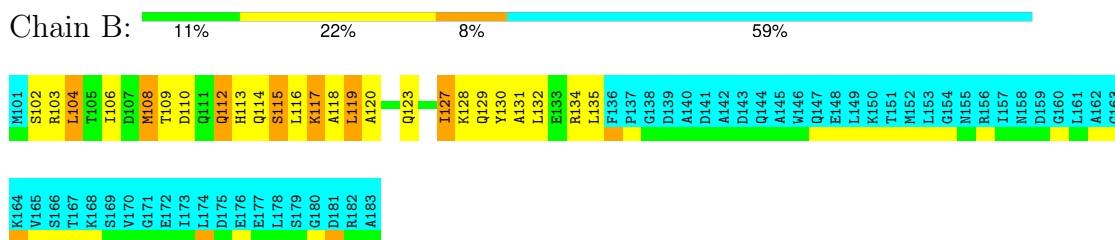


4.2.18 Score per residue for model 18

- Molecule 1: Protein parD



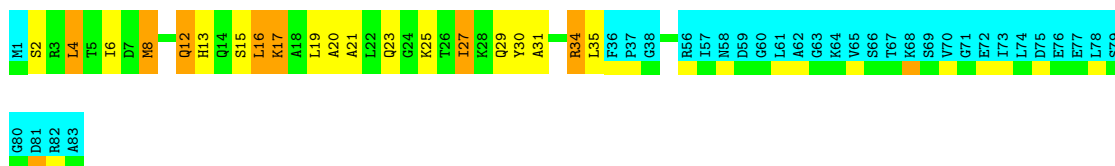
- Molecule 1: Protein parD



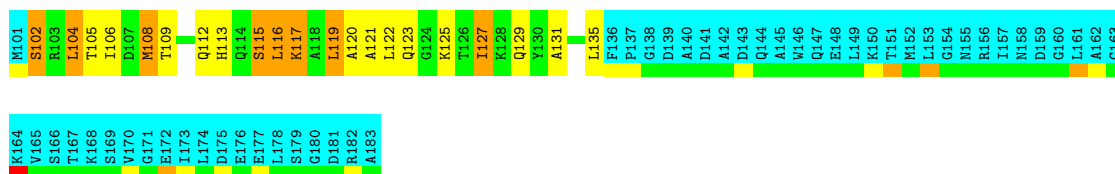
4.2.19 Score per residue for model 19

- Molecule 1: Protein parD



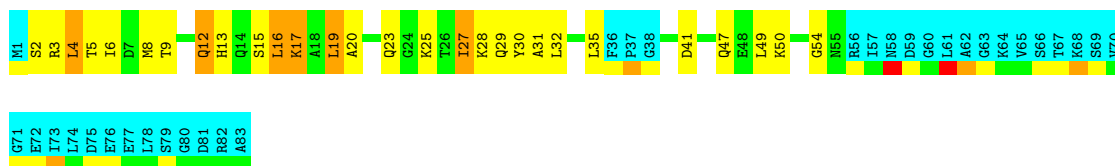
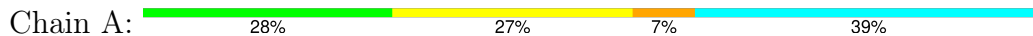


- Molecule 1: Protein parD

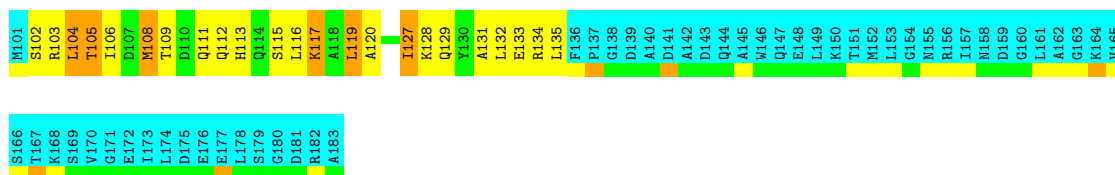


4.2.20 Score per residue for model 20

- Molecule 1: Protein parD



- Molecule 1: Protein parD

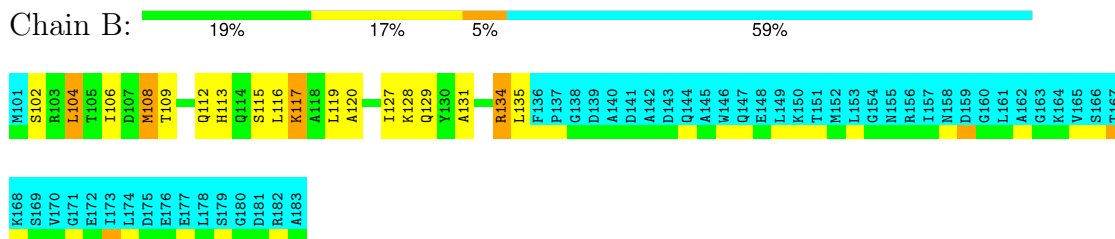


4.2.21 Score per residue for model 21

- Molecule 1: Protein parD

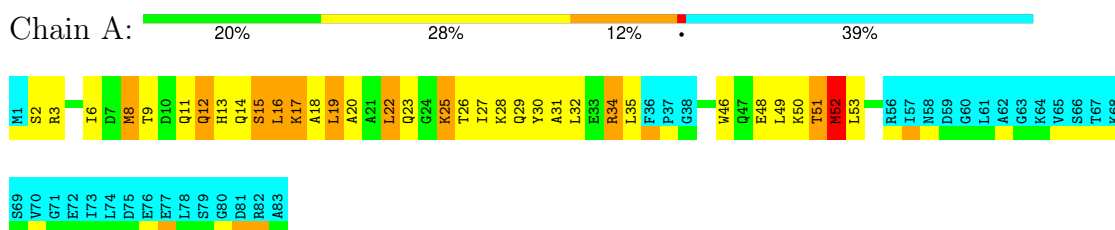


- Molecule 1: Protein parD

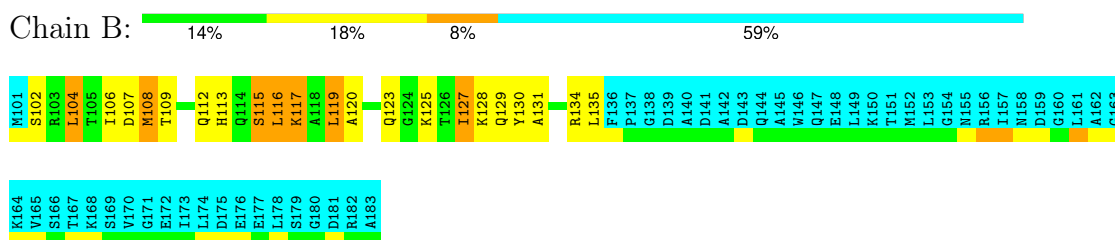


4.2.22 Score per residue for model 22

- Molecule 1: Protein parD

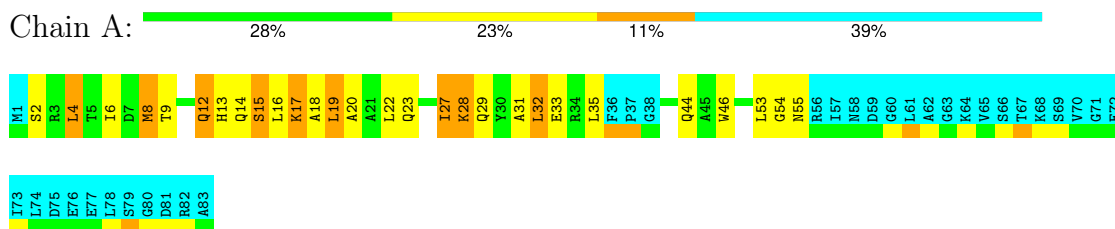


- Molecule 1: Protein parD



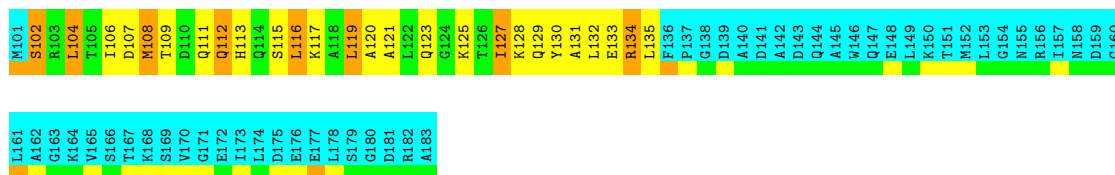
4.2.23 Score per residue for model 23

- Molecule 1: Protein parD



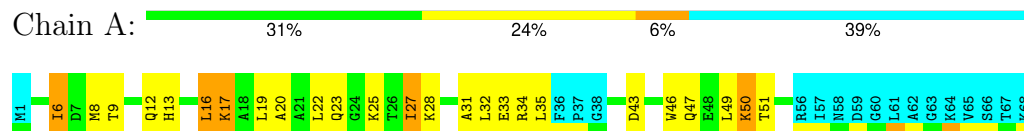
- Molecule 1: Protein parD



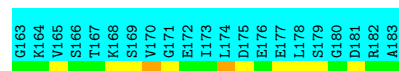
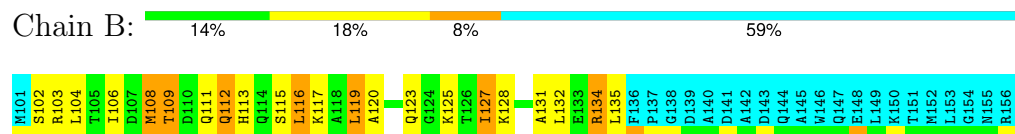


4.2.24 Score per residue for model 24

- Molecule 1: Protein parD



- Molecule 1: Protein parD



5 Refinement protocol and experimental data overview

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

Of the 150 calculated structures, 24 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
CNS	refinement	1.1
CNS	structure solution	1.1

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	1712
Number of shifts mapped to atoms	1712
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	77%

6 Model quality i

6.1 Standard geometry i

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts i

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	402	406	405	37±6
1	B	270	287	286	35±7
All	All	16128	16632	16584	1324

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 40.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:104:LEU:HD21	1:B:106:ILE:HD11	1.04	1.20	18	10
1:A:4:LEU:HD21	1:A:6:ILE:HD11	0.99	1.34	11	11
1:A:16:LEU:HD13	1:A:17:LYS:N	0.91	1.81	11	4
1:A:17:LYS:N	1:A:17:LYS:HD3	0.91	1.78	13	2
1:A:32:LEU:HB2	1:B:106:ILE:HD11	0.89	1.44	7	4
1:A:6:ILE:HD12	1:B:106:ILE:HD12	0.89	1.45	14	9
1:B:116:LEU:HD22	1:B:117:LYS:N	0.89	1.83	23	3
1:B:116:LEU:HD12	1:B:117:LYS:N	0.89	1.82	3	3
1:B:117:LYS:N	1:B:117:LYS:HD3	0.89	1.81	12	1
1:A:27:ILE:HD12	1:A:31:ALA:HB2	0.88	1.44	23	4
1:A:27:ILE:CD1	1:A:31:ALA:HB2	0.88	1.98	19	7
1:A:19:LEU:HD11	1:A:30:TYR:CZ	0.87	2.04	13	3
1:A:31:ALA:HB1	1:B:135:LEU:HD22	0.86	1.44	4	12

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:35:LEU:HD22	1:B:131:ALA:HB1	0.86	1.48	8	10
1:B:116:LEU:HD13	1:B:117:LYS:N	0.86	1.86	8	3
1:A:27:ILE:HD11	1:B:104:LEU:HD22	0.84	1.47	18	8
1:A:19:LEU:O	1:A:22:LEU:HD23	0.84	1.70	22	2
1:B:116:LEU:HD11	1:B:127:ILE:CD1	0.83	2.04	2	4
1:A:4:LEU:HD22	1:B:127:ILE:HD11	0.83	1.51	7	8
1:B:127:ILE:CD1	1:B:131:ALA:HB2	0.82	2.04	12	8
1:A:16:LEU:HD22	1:A:17:LYS:N	0.81	1.89	15	2
1:A:4:LEU:HD22	1:B:117:LYS:NZ	0.81	1.90	12	1
1:A:16:LEU:HD21	1:A:27:ILE:CD1	0.81	2.05	16	6
1:A:17:LYS:NZ	1:B:104:LEU:HD22	0.81	1.91	13	1
1:A:49:LEU:HD12	1:A:50:LYS:N	0.80	1.91	8	1
1:A:16:LEU:HD21	1:A:27:ILE:HD12	0.80	1.52	20	5
1:A:31:ALA:HB1	1:B:135:LEU:CD2	0.80	2.07	5	9
1:A:13:HIS:O	1:A:17:LYS:HB2	0.79	1.75	24	18
1:B:116:LEU:HD21	1:B:127:ILE:CD1	0.79	2.08	7	4
1:A:27:ILE:HD11	1:A:31:ALA:HB2	0.79	1.54	19	2
1:B:116:LEU:HD13	1:B:127:ILE:CD1	0.79	2.07	3	2
1:A:16:LEU:HD11	1:A:27:ILE:CD1	0.79	2.08	8	2
1:A:6:ILE:HD11	1:B:132:LEU:HB2	0.78	1.56	16	2
1:A:35:LEU:HG	1:B:135:LEU:HD21	0.78	1.54	14	3
1:A:9:THR:HG22	1:A:12:GLN:HG2	0.77	1.56	22	1
1:B:113:HIS:O	1:B:117:LYS:HB2	0.77	1.78	24	21
1:B:115:SER:O	1:B:119:LEU:HD12	0.77	1.79	24	16
1:A:5:THR:OG1	1:B:105:THR:HG23	0.77	1.80	8	1
1:A:35:LEU:CD2	1:B:131:ALA:HB1	0.76	2.10	8	6
1:A:27:ILE:HG13	1:A:31:ALA:HB2	0.76	1.58	20	11
1:B:116:LEU:CD1	1:B:127:ILE:HD12	0.75	2.10	21	1
1:A:35:LEU:O	1:B:116:LEU:HD21	0.75	1.81	10	8
1:A:15:SER:O	1:A:19:LEU:HD12	0.75	1.81	23	11
1:A:20:ALA:HB1	1:A:27:ILE:HA	0.75	1.59	15	6
1:A:8:MET:HE1	1:B:135:LEU:HD13	0.74	1.57	10	3
1:B:104:LEU:HD11	1:B:106:ILE:CG1	0.74	2.12	18	7
1:A:17:LYS:HG2	1:A:27:ILE:HG21	0.74	1.58	15	2
1:B:104:LEU:CD2	1:B:106:ILE:HD11	0.73	2.08	18	3
1:A:16:LEU:HD21	1:B:135:LEU:O	0.73	1.83	13	3
1:B:116:LEU:HD13	1:B:127:ILE:HD12	0.73	1.59	21	2
1:A:8:MET:CE	1:B:135:LEU:HD13	0.73	2.14	5	3
1:B:117:LYS:HG2	1:B:127:ILE:HG21	0.73	1.58	23	3
1:B:127:ILE:HD11	1:B:131:ALA:HB2	0.73	1.59	10	5
1:A:16:LEU:HD12	1:A:30:TYR:CE2	0.73	2.18	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:4:LEU:CD2	1:A:6:ILE:HD11	0.72	2.14	10	7
1:A:16:LEU:HD23	1:B:135:LEU:HB3	0.72	1.61	24	1
1:A:20:ALA:CB	1:A:27:ILE:HA	0.72	2.15	15	14
1:A:19:LEU:HD21	1:A:30:TYR:OH	0.72	1.84	4	1
1:B:132:LEU:HA	1:B:135:LEU:HD12	0.72	1.62	5	3
1:B:127:ILE:HG13	1:B:131:ALA:HB2	0.72	1.61	2	8
1:A:16:LEU:HD22	1:A:27:ILE:CD1	0.71	2.15	24	1
1:A:16:LEU:HA	1:A:19:LEU:HD23	0.71	1.60	4	4
1:B:116:LEU:HD21	1:B:127:ILE:HD12	0.71	1.63	7	3
1:A:16:LEU:HD13	1:B:135:LEU:O	0.71	1.86	2	1
1:A:13:HIS:O	1:A:16:LEU:HD23	0.70	1.85	5	3
1:A:16:LEU:HD23	1:A:27:ILE:HD13	0.70	1.63	15	1
1:A:16:LEU:HD21	1:A:31:ALA:HB2	0.70	1.62	2	3
1:B:116:LEU:HD11	1:B:127:ILE:HD11	0.70	1.63	8	4
1:A:35:LEU:HD13	1:B:108:MET:CE	0.70	2.17	14	3
1:B:119:LEU:HD11	1:B:130:TYR:CZ	0.69	2.21	17	1
1:B:113:HIS:O	1:B:117:LYS:CD	0.69	2.40	5	1
1:A:16:LEU:C	1:A:16:LEU:HD22	0.69	2.07	7	4
1:A:8:MET:SD	1:B:104:LEU:HD23	0.69	2.27	19	4
1:A:13:HIS:CD2	1:A:17:LYS:HG2	0.69	2.23	19	2
1:A:5:THR:C	1:A:6:ILE:HD13	0.69	2.08	3	1
1:A:16:LEU:HD22	1:A:27:ILE:HD11	0.69	1.65	24	1
1:B:116:LEU:CD1	1:B:127:ILE:HD13	0.68	2.17	13	2
1:A:28:LYS:O	1:A:32:LEU:HD12	0.68	1.87	23	2
1:B:128:LYS:O	1:B:132:LEU:HD12	0.68	1.89	4	2
1:A:6:ILE:CD1	1:B:106:ILE:HD12	0.68	2.18	14	4
1:A:32:LEU:HA	1:A:35:LEU:HD12	0.68	1.66	21	2
1:A:8:MET:SD	1:B:132:LEU:HD13	0.68	2.29	20	1
1:A:35:LEU:O	1:B:116:LEU:HD11	0.67	1.90	12	3
1:B:104:LEU:HD12	1:B:105:THR:N	0.67	2.05	7	1
1:B:113:HIS:CD2	1:B:117:LYS:HD3	0.67	2.25	5	2
1:A:17:LYS:CD	1:A:27:ILE:HD13	0.67	2.20	13	2
1:A:16:LEU:HD22	1:B:135:LEU:HB3	0.66	1.65	2	5
1:B:116:LEU:HD22	1:B:116:LEU:C	0.66	2.11	11	5
1:A:4:LEU:HD11	1:A:6:ILE:CG1	0.66	2.19	15	4
1:A:35:LEU:HD11	1:B:106:ILE:HD13	0.66	1.65	14	3
1:A:32:LEU:HD13	1:B:108:MET:SD	0.66	2.31	18	2
1:B:116:LEU:HD13	1:B:117:LYS:H	0.66	1.50	9	3
1:A:16:LEU:HD22	1:A:16:LEU:O	0.66	1.91	11	4
1:A:35:LEU:HD13	1:A:35:LEU:N	0.66	2.05	15	1
1:A:19:LEU:HD11	1:A:30:TYR:CE1	0.66	2.25	4	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:104:LEU:HD11	1:B:106:ILE:HG13	0.66	1.66	15	4
1:A:16:LEU:CD2	1:A:27:ILE:HD13	0.66	2.21	15	1
1:A:6:ILE:HD12	1:B:106:ILE:HD13	0.66	1.66	15	1
1:A:35:LEU:HD21	1:B:131:ALA:CB	0.65	2.22	13	1
1:A:32:LEU:HD11	1:B:107:ASP:O	0.65	1.91	22	2
1:A:16:LEU:HD22	1:A:16:LEU:C	0.65	2.11	11	2
1:A:16:LEU:HD13	1:A:30:TYR:CE2	0.65	2.27	19	3
1:A:16:LEU:HD23	1:A:17:LYS:N	0.65	2.07	14	1
1:A:31:ALA:CB	1:B:135:LEU:HD22	0.64	2.21	4	8
1:A:35:LEU:HD21	1:B:135:LEU:HG	0.64	1.68	5	3
1:A:9:THR:HG22	1:A:12:GLN:HB2	0.64	1.67	18	1
1:A:8:MET:CE	1:B:135:LEU:HD12	0.63	2.23	18	7
1:A:16:LEU:CD1	1:B:135:LEU:HD13	0.63	2.23	14	1
1:A:16:LEU:CD2	1:A:27:ILE:HD12	0.63	2.23	20	4
1:A:35:LEU:HD12	1:B:108:MET:CE	0.63	2.24	23	6
1:A:6:ILE:HD12	1:B:106:ILE:CD1	0.63	2.23	1	3
1:A:35:LEU:HD23	1:B:134:ARG:HB3	0.63	1.70	3	6
1:B:116:LEU:HA	1:B:119:LEU:HD23	0.63	1.71	17	1
1:A:53:LEU:HD12	1:A:53:LEU:O	0.63	1.94	5	1
1:B:116:LEU:HD13	1:B:116:LEU:C	0.63	2.14	8	1
1:A:16:LEU:HD21	1:A:31:ALA:CB	0.62	2.24	2	2
1:A:35:LEU:HD21	1:B:135:LEU:CD2	0.62	2.24	11	4
1:A:35:LEU:HD13	1:B:108:MET:HE1	0.62	1.71	21	3
1:A:4:LEU:HD11	1:A:6:ILE:HG12	0.62	1.68	17	3
1:A:13:HIS:CD2	1:A:17:LYS:HE2	0.62	2.29	19	1
1:A:35:LEU:HD22	1:B:131:ALA:HA	0.62	1.70	3	3
1:B:127:ILE:HG12	1:B:131:ALA:HB2	0.62	1.71	11	2
1:B:135:LEU:N	1:B:135:LEU:HD13	0.62	2.10	8	1
1:A:31:ALA:O	1:A:35:LEU:HG	0.62	1.94	10	8
1:A:35:LEU:HD12	1:B:135:LEU:HD21	0.62	1.70	13	1
1:B:120:ALA:HB1	1:B:127:ILE:N	0.61	2.10	19	23
1:A:13:HIS:O	1:A:17:LYS:CB	0.61	2.47	23	15
1:A:35:LEU:HD22	1:B:116:LEU:HD22	0.61	1.71	13	1
1:B:113:HIS:O	1:B:117:LYS:HD2	0.61	1.96	10	2
1:B:113:HIS:CD2	1:B:117:LYS:HE3	0.61	2.31	12	1
1:A:53:LEU:HD22	1:A:53:LEU:N	0.61	2.11	8	2
1:A:16:LEU:HD13	1:B:135:LEU:HB3	0.61	1.72	8	2
1:A:41:ASP:O	1:A:45:ALA:HB2	0.61	1.95	8	1
1:B:104:LEU:HD11	1:B:106:ILE:CD1	0.61	2.25	19	2
1:A:27:ILE:CD1	1:B:104:LEU:HD22	0.60	2.24	18	8
1:B:127:ILE:CG1	1:B:131:ALA:HB2	0.60	2.26	6	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:116:LEU:HD11	1:B:127:ILE:HG13	0.60	1.73	15	1
1:A:46:TRP:HA	1:A:49:LEU:HD23	0.60	1.73	24	1
1:A:53:LEU:H	1:A:53:LEU:HD13	0.60	1.56	7	2
1:A:35:LEU:HD13	1:B:131:ALA:HB1	0.60	1.72	10	2
1:B:113:HIS:O	1:B:117:LYS:CB	0.60	2.50	23	15
1:B:127:ILE:HD12	1:B:131:ALA:HB2	0.60	1.73	24	5
1:A:9:THR:HG23	1:A:12:GLN:CB	0.60	2.27	2	5
1:A:18:ALA:O	1:A:22:LEU:HD13	0.59	1.97	2	2
1:A:32:LEU:CB	1:B:106:ILE:HD11	0.59	2.26	4	2
1:A:16:LEU:HD13	1:A:17:LYS:H	0.59	1.56	6	4
1:B:116:LEU:HD12	1:B:116:LEU:O	0.59	1.96	15	1
1:A:4:LEU:HD22	1:B:117:LYS:HZ2	0.59	1.57	12	1
1:A:35:LEU:HD21	1:B:131:ALA:HB1	0.59	1.74	13	1
1:A:20:ALA:HB2	1:A:30:TYR:CD1	0.59	2.33	15	1
1:A:35:LEU:CB	1:B:116:LEU:HD11	0.59	2.28	10	1
1:A:8:MET:HE1	1:B:135:LEU:HD12	0.59	1.75	6	6
1:A:14:GLN:O	1:A:18:ALA:HB3	0.59	1.97	23	1
1:A:27:ILE:CG1	1:A:31:ALA:HB2	0.59	2.27	9	8
1:B:106:ILE:N	1:B:106:ILE:HD13	0.59	2.12	3	1
1:A:8:MET:HE3	1:B:104:LEU:HD23	0.59	1.75	7	1
1:A:6:ILE:HD13	1:B:135:LEU:HD11	0.59	1.74	5	1
1:B:113:HIS:CD2	1:B:117:LYS:HG2	0.59	2.32	12	1
1:B:104:LEU:HD11	1:B:106:ILE:HG12	0.58	1.75	18	6
1:B:116:LEU:HD22	1:B:116:LEU:O	0.58	1.99	8	1
1:A:35:LEU:HD21	1:B:135:LEU:HD21	0.58	1.74	11	5
1:A:16:LEU:HD23	1:A:27:ILE:HD12	0.58	1.75	21	2
1:B:132:LEU:O	1:B:135:LEU:HD22	0.58	1.98	8	1
1:A:6:ILE:CG1	1:B:106:ILE:HD11	0.58	2.27	3	1
1:A:31:ALA:O	1:A:35:LEU:HD22	0.58	1.97	15	1
1:A:9:THR:HG23	1:A:12:GLN:HB2	0.58	1.75	1	5
1:A:6:ILE:HG22	1:A:8:MET:SD	0.57	2.38	20	4
1:A:32:LEU:HD23	1:B:106:ILE:CG2	0.57	2.28	21	1
1:B:117:LYS:CD	1:B:127:ILE:HD13	0.57	2.29	12	1
1:B:116:LEU:HD12	1:B:130:TYR:CD2	0.57	2.35	6	1
1:A:32:LEU:C	1:A:32:LEU:HD13	0.57	2.20	9	4
1:A:27:ILE:O	1:A:31:ALA:HB3	0.57	1.99	7	2
1:B:116:LEU:HD12	1:B:130:TYR:CE2	0.57	2.34	6	3
1:A:4:LEU:HD11	1:A:6:ILE:HD11	0.57	1.76	23	1
1:B:106:ILE:HD13	1:B:108:MET:CE	0.57	2.30	4	2
1:A:19:LEU:HA	1:A:22:LEU:HD22	0.57	1.77	22	1
1:A:27:ILE:HG12	1:A:31:ALA:HB2	0.56	1.77	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:120:ALA:CB	1:B:127:ILE:HA	0.56	2.30	5	20
1:B:116:LEU:HD23	1:B:117:LYS:NZ	0.56	2.15	5	1
1:A:13:HIS:HA	1:A:16:LEU:HD11	0.56	1.77	15	2
1:A:32:LEU:HD11	1:B:112:GLN:OE1	0.56	1.99	24	1
1:A:20:ALA:HB1	1:A:27:ILE:N	0.56	2.15	19	16
1:A:19:LEU:HD22	1:A:30:TYR:OH	0.56	2.00	8	2
1:A:19:LEU:HD21	1:A:30:TYR:CZ	0.56	2.35	4	1
1:B:113:HIS:HA	1:B:117:LYS:CE	0.56	2.30	12	1
1:B:117:LYS:HD2	1:B:127:ILE:CG1	0.56	2.30	12	1
1:A:19:LEU:HD11	1:A:30:TYR:OH	0.56	2.01	13	1
1:A:35:LEU:HD23	1:B:131:ALA:HB1	0.56	1.76	14	1
1:A:32:LEU:C	1:A:32:LEU:HD23	0.56	2.21	1	4
1:B:120:ALA:HB2	1:B:127:ILE:HA	0.56	1.76	8	5
1:A:35:LEU:CD2	1:B:135:LEU:HD21	0.56	2.31	23	3
1:B:116:LEU:HD11	1:B:127:ILE:CG1	0.55	2.31	15	1
1:A:16:LEU:HD23	1:A:17:LYS:H	0.55	1.60	14	1
1:A:49:LEU:HD11	1:A:50:LYS:HD3	0.55	1.78	24	1
1:B:113:HIS:HA	1:B:117:LYS:HD3	0.55	1.78	5	1
1:A:13:HIS:O	1:A:17:LYS:CG	0.55	2.55	19	1
1:B:116:LEU:HD21	1:B:131:ALA:HB2	0.55	1.79	8	2
1:A:17:LYS:HD2	1:A:27:ILE:CG1	0.55	2.32	19	2
1:A:27:ILE:HG13	1:A:31:ALA:CB	0.55	2.32	12	7
1:B:106:ILE:HG22	1:B:108:MET:SD	0.55	2.42	12	3
1:A:16:LEU:HD12	1:B:135:LEU:HD23	0.55	1.77	17	1
1:A:17:LYS:N	1:A:17:LYS:CD	0.55	2.63	13	2
1:B:117:LYS:N	1:B:117:LYS:CD	0.55	2.66	12	1
1:A:31:ALA:HA	1:B:135:LEU:HD22	0.55	1.79	14	2
1:A:6:ILE:HG23	1:A:8:MET:SD	0.54	2.43	18	1
1:A:35:LEU:HD22	1:B:131:ALA:CB	0.54	2.32	2	5
1:A:49:LEU:HD11	1:A:50:LYS:CD	0.54	2.32	24	1
1:A:14:GLN:O	1:A:18:ALA:CB	0.54	2.56	4	8
1:A:35:LEU:HG	1:B:131:ALA:HB1	0.54	1.79	15	1
1:A:17:LYS:HZ3	1:B:104:LEU:HD22	0.54	1.62	13	1
1:A:5:THR:O	1:A:6:ILE:HD13	0.54	2.03	3	1
1:A:31:ALA:HB1	1:B:135:LEU:HD11	0.54	1.78	17	1
1:B:119:LEU:HD22	1:B:130:TYR:OH	0.54	2.03	15	4
1:A:35:LEU:HD23	1:B:131:ALA:O	0.54	2.03	8	2
1:A:35:LEU:HB3	1:B:116:LEU:HD22	0.54	1.79	18	1
1:A:6:ILE:O	1:B:104:LEU:N	0.53	2.41	18	7
1:A:4:LEU:HD23	1:A:6:ILE:HD11	0.53	1.80	10	2
1:A:4:LEU:HD21	1:A:6:ILE:CD1	0.53	2.23	11	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:32:LEU:HD21	1:B:112:GLN:OE1	0.53	2.03	7	1
1:A:35:LEU:HD12	1:B:108:MET:HE1	0.53	1.79	16	5
1:B:127:ILE:HD12	1:B:127:ILE:O	0.53	2.03	24	2
1:A:4:LEU:HD12	1:A:5:THR:N	0.53	2.18	7	2
1:A:53:LEU:HD22	1:A:53:LEU:H	0.53	1.63	8	1
1:B:116:LEU:HD21	1:B:127:ILE:HD11	0.53	1.78	15	1
1:A:35:LEU:HD12	1:B:108:MET:HE3	0.53	1.80	23	1
1:B:127:ILE:HG13	1:B:131:ALA:CB	0.53	2.33	22	6
1:A:16:LEU:HD22	1:B:135:LEU:CB	0.53	2.34	12	2
1:A:32:LEU:HD13	1:A:33:GLU:N	0.53	2.19	7	3
1:A:31:ALA:O	1:A:35:LEU:CD2	0.53	2.57	15	1
1:B:131:ALA:O	1:B:135:LEU:HG	0.53	2.03	10	7
1:A:16:LEU:HD13	1:A:30:TYR:HE2	0.53	1.59	19	4
1:B:113:HIS:HA	1:B:117:LYS:HE3	0.53	1.81	12	1
1:B:132:LEU:O	1:B:132:LEU:HD12	0.53	2.04	20	1
1:A:32:LEU:HD13	1:A:32:LEU:C	0.53	2.24	7	1
1:A:19:LEU:HA	1:A:22:LEU:CD2	0.53	2.32	15	2
1:A:9:THR:HG22	1:A:12:GLN:CG	0.53	2.34	22	1
1:B:116:LEU:HD23	1:B:117:LYS:HZ1	0.53	1.63	5	1
1:A:28:LYS:O	1:B:106:ILE:HD11	0.53	2.04	16	3
1:A:8:MET:CE	1:B:132:LEU:HD12	0.53	2.34	17	1
1:A:35:LEU:O	1:B:116:LEU:HD13	0.53	2.04	18	1
1:A:6:ILE:HD13	1:A:6:ILE:N	0.53	2.18	24	1
1:A:13:HIS:HA	1:A:17:LYS:HE3	0.53	1.81	13	1
1:A:12:GLN:OE1	1:B:132:LEU:HD21	0.53	2.04	16	1
1:A:51:THR:O	1:A:52:MET:CB	0.52	2.57	22	1
1:A:6:ILE:HD11	1:B:106:ILE:HG12	0.52	1.82	3	1
1:A:35:LEU:HD22	1:B:131:ALA:CA	0.52	2.35	12	4
1:A:16:LEU:HD12	1:A:27:ILE:HD12	0.52	1.81	10	1
1:A:17:LYS:HD2	1:A:27:ILE:HD13	0.52	1.82	19	2
1:B:113:HIS:HA	1:B:116:LEU:HD23	0.52	1.81	14	2
1:A:35:LEU:HD12	1:B:131:ALA:O	0.52	2.03	15	1
1:A:20:ALA:HB1	1:A:27:ILE:CA	0.52	2.34	23	4
1:A:35:LEU:CG	1:B:135:LEU:HD21	0.52	2.33	21	2
1:B:104:LEU:HD21	1:B:106:ILE:CD1	0.52	2.34	10	1
1:B:106:ILE:CG2	1:B:108:MET:HE2	0.52	2.34	19	2
1:A:6:ILE:HG13	1:B:106:ILE:HD11	0.52	1.81	3	1
1:A:32:LEU:HG	1:B:106:ILE:HD11	0.52	1.81	22	1
1:B:116:LEU:HD11	1:B:127:ILE:HD12	0.52	1.79	2	1
1:A:28:LYS:HA	1:B:106:ILE:HG13	0.52	1.81	13	4
1:B:132:LEU:C	1:B:132:LEU:HD13	0.51	2.25	16	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:53:LEU:H	1:A:53:LEU:HD22	0.51	1.63	7	1
1:B:127:ILE:HG12	1:B:131:ALA:CB	0.51	2.36	11	1
1:B:132:LEU:HD23	1:B:132:LEU:C	0.51	2.26	23	2
1:B:109:THR:HG22	1:B:112:GLN:CG	0.51	2.35	24	1
1:B:127:ILE:HG13	1:B:131:ALA:HB3	0.51	1.82	4	1
1:A:16:LEU:HD12	1:A:27:ILE:CD1	0.51	2.36	10	1
1:A:30:TYR:CE1	1:A:34:ARG:NE	0.51	2.79	7	1
1:A:5:THR:HG21	1:B:103:ARG:CZ	0.51	2.36	18	1
1:B:117:LYS:HE3	1:B:127:ILE:HD13	0.51	1.83	10	1
1:B:117:LYS:CG	1:B:127:ILE:HG21	0.50	2.34	24	2
1:A:35:LEU:N	1:A:35:LEU:CD1	0.50	2.75	15	1
1:B:113:HIS:HA	1:B:116:LEU:HD11	0.50	1.82	23	1
1:B:113:HIS:CA	1:B:117:LYS:HE3	0.50	2.37	12	1
1:A:4:LEU:HD13	1:B:127:ILE:CD1	0.50	2.37	16	1
1:B:106:ILE:HG23	1:B:108:MET:SD	0.50	2.47	17	2
1:B:114:GLN:O	1:B:118:ALA:HB2	0.50	2.07	12	2
1:A:16:LEU:HD11	1:B:135:LEU:O	0.50	2.07	19	2
1:A:34:ARG:HB3	1:B:135:LEU:HD23	0.50	1.83	19	5
1:B:116:LEU:CD2	1:B:127:ILE:HD12	0.50	2.37	18	3
1:B:121:ALA:HA	1:B:125:LYS:O	0.50	2.07	4	11
1:B:120:ALA:CB	1:B:127:ILE:CA	0.50	2.90	24	13
1:B:130:TYR:CD1	1:B:131:ALA:N	0.49	2.80	13	2
1:B:112:GLN:HG3	1:B:113:HIS:N	0.49	2.22	20	4
1:A:35:LEU:CD2	1:B:135:LEU:HD11	0.49	2.37	8	1
1:A:12:GLN:HG3	1:A:13:HIS:N	0.49	2.22	22	2
1:A:46:TRP:HB3	1:A:49:LEU:HD23	0.49	1.84	5	1
1:A:5:THR:HG22	1:B:103:ARG:HD2	0.49	1.84	6	1
1:A:8:MET:HE3	1:B:135:LEU:HD12	0.49	1.85	9	1
1:A:13:HIS:CG	1:B:102:SER:HB3	0.49	2.42	23	1
1:A:53:LEU:H	1:A:53:LEU:CD1	0.49	2.16	7	2
1:B:113:HIS:O	1:B:116:LEU:HD13	0.49	2.08	7	2
1:A:31:ALA:O	1:A:35:LEU:HD12	0.49	2.08	14	2
1:A:13:HIS:CD2	1:A:17:LYS:HB2	0.49	2.41	23	1
1:B:109:THR:HG22	1:B:112:GLN:HG2	0.49	1.85	24	1
1:A:49:LEU:C	1:A:49:LEU:HD12	0.49	2.28	24	2
1:A:14:GLN:O	1:A:18:ALA:HB2	0.49	2.08	13	2
1:A:53:LEU:N	1:A:53:LEU:HD13	0.49	2.22	8	1
1:B:116:LEU:HD23	1:B:127:ILE:HD13	0.49	1.84	23	1
1:B:113:HIS:HA	1:B:117:LYS:CD	0.49	2.38	5	1
1:A:32:LEU:CA	1:B:106:ILE:HD11	0.49	2.37	22	1
1:A:28:LYS:HD2	1:B:106:ILE:HG23	0.49	1.85	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:127:ILE:CD1	1:B:131:ALA:CB	0.49	2.89	24	2
1:B:108:MET:HB3	1:B:112:GLN:NE2	0.49	2.23	24	2
1:B:127:ILE:HD12	1:B:131:ALA:CB	0.48	2.37	24	2
1:A:16:LEU:HD22	1:A:19:LEU:CD2	0.48	2.38	13	1
1:A:16:LEU:HD11	1:A:27:ILE:HD11	0.48	1.84	8	4
1:A:35:LEU:HB3	1:B:116:LEU:HD13	0.48	1.84	5	1
1:B:116:LEU:HD13	1:B:127:ILE:HD13	0.48	1.86	13	2
1:B:104:LEU:HD11	1:B:106:ILE:HD11	0.48	1.85	19	1
1:A:35:LEU:CD2	1:B:135:LEU:HG	0.48	2.39	11	1
1:A:13:HIS:CG	1:B:102:SER:CB	0.48	2.96	23	1
1:A:28:LYS:HE3	1:B:105:THR:O	0.48	2.07	6	2
1:A:3:ARG:CD	1:B:105:THR:HG22	0.48	2.39	17	2
1:A:30:TYR:CD1	1:A:31:ALA:N	0.48	2.82	15	1
1:A:8:MET:HB2	1:B:102:SER:N	0.48	2.24	23	1
1:A:16:LEU:HD21	1:A:27:ILE:HD11	0.48	1.86	3	1
1:B:106:ILE:HG21	1:B:108:MET:CE	0.48	2.38	23	4
1:A:27:ILE:HG13	1:A:31:ALA:HB3	0.48	1.85	2	1
1:A:35:LEU:CD1	1:B:131:ALA:HB1	0.48	2.39	10	1
1:A:13:HIS:O	1:A:17:LYS:HG2	0.48	2.07	19	2
1:A:4:LEU:HD11	1:A:6:ILE:HG13	0.48	1.85	19	2
1:A:13:HIS:CD2	1:A:17:LYS:CE	0.48	2.96	19	1
1:B:106:ILE:CG2	1:B:108:MET:SD	0.47	3.02	12	4
1:B:113:HIS:CA	1:B:117:LYS:HD3	0.47	2.39	5	1
1:A:53:LEU:H	1:A:53:LEU:CD2	0.47	2.22	7	1
1:A:16:LEU:HD11	1:A:27:ILE:HD12	0.47	1.86	8	2
1:A:8:MET:HE2	1:B:132:LEU:HD12	0.47	1.86	17	1
1:B:116:LEU:CG	1:B:127:ILE:HD12	0.47	2.39	15	1
1:A:6:ILE:CG2	1:A:8:MET:SD	0.47	3.03	9	5
1:B:116:LEU:HD12	1:B:116:LEU:C	0.47	2.29	15	2
1:A:4:LEU:HD11	1:A:6:ILE:CD1	0.47	2.40	23	1
1:A:4:LEU:HD22	1:B:127:ILE:CD1	0.47	2.40	18	6
1:A:40:ALA:HB2	1:B:134:ARG:CZ	0.47	2.39	16	1
1:A:53:LEU:HD13	1:A:53:LEU:N	0.47	2.22	7	1
1:A:13:HIS:HA	1:A:16:LEU:HD21	0.47	1.85	10	1
1:A:27:ILE:O	1:A:31:ALA:N	0.47	2.41	13	3
1:A:4:LEU:HD23	1:B:108:MET:SD	0.47	2.49	23	2
1:A:4:LEU:CD2	1:A:35:LEU:CD1	0.47	2.93	16	1
1:A:6:ILE:HD11	1:B:132:LEU:CB	0.47	2.36	16	1
1:A:8:MET:HG3	1:B:102:SER:O	0.47	2.09	23	1
1:A:8:MET:CG	1:B:102:SER:O	0.47	2.63	23	1
1:A:32:LEU:HD12	1:B:107:ASP:O	0.47	2.09	4	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:28:LYS:CD	1:B:106:ILE:HG23	0.47	2.39	2	1
1:A:35:LEU:HD21	1:B:135:LEU:CG	0.47	2.39	6	2
1:A:20:ALA:O	1:A:25:LYS:O	0.47	2.33	22	1
1:A:32:LEU:HD23	1:A:32:LEU:O	0.47	2.10	5	4
1:A:35:LEU:CB	1:B:116:LEU:HD22	0.47	2.40	15	1
1:A:16:LEU:HD12	1:A:30:TYR:CD2	0.46	2.44	12	2
1:A:5:THR:O	1:B:128:LYS:CE	0.46	2.62	17	3
1:B:116:LEU:C	1:B:116:LEU:CD2	0.46	2.84	7	3
1:A:35:LEU:HB2	1:B:116:LEU:HD11	0.46	1.86	10	1
1:A:5:THR:HG22	1:B:103:ARG:CD	0.46	2.41	6	1
1:B:109:THR:HG23	1:B:112:GLN:CB	0.46	2.41	15	1
1:B:117:LYS:HD2	1:B:117:LYS:H	0.46	1.70	5	1
1:A:4:LEU:HD13	1:B:127:ILE:HD13	0.46	1.86	6	3
1:A:35:LEU:HD22	1:B:131:ALA:O	0.46	2.10	17	1
1:A:6:ILE:CG2	1:A:8:MET:CE	0.46	2.94	18	3
1:A:16:LEU:HD21	1:A:27:ILE:CG1	0.46	2.40	7	3
1:A:16:LEU:C	1:A:16:LEU:CD2	0.46	2.84	20	4
1:A:13:HIS:O	1:A:16:LEU:HD13	0.46	2.10	7	2
1:A:21:ALA:HA	1:A:25:LYS:O	0.46	2.11	12	7
1:A:27:ILE:HD11	1:B:104:LEU:CD2	0.46	2.40	2	1
1:A:48:GLU:HA	1:A:52:MET:CA	0.46	2.41	22	1
1:A:31:ALA:O	1:B:135:LEU:CD2	0.46	2.63	2	5
1:A:17:LYS:HZ2	1:B:104:LEU:HD22	0.46	1.66	13	1
1:A:17:LYS:CE	1:A:17:LYS:O	0.46	2.64	5	4
1:A:19:LEU:O	1:A:22:LEU:CD2	0.46	2.56	22	1
1:B:130:TYR:CE1	1:B:134:ARG:NH1	0.46	2.84	23	1
1:A:4:LEU:CD2	1:B:127:ILE:HD11	0.46	2.40	13	2
1:A:7:ASP:O	1:B:132:LEU:HD11	0.46	2.11	8	1
1:A:32:LEU:HA	1:A:35:LEU:CD2	0.46	2.41	15	1
1:A:41:ASP:O	1:A:45:ALA:HB3	0.46	2.10	15	1
1:A:6:ILE:HG21	1:A:8:MET:CE	0.45	2.41	6	1
1:B:117:LYS:HD2	1:B:127:ILE:HD13	0.45	1.87	12	1
1:A:17:LYS:HD2	1:A:27:ILE:CD1	0.45	2.41	19	2
1:A:17:LYS:CG	1:A:27:ILE:HG21	0.45	2.36	15	1
1:B:104:LEU:HG	1:B:104:LEU:O	0.45	2.11	23	1
1:A:13:HIS:CE1	1:B:104:LEU:CB	0.45	2.99	1	4
1:A:6:ILE:HG21	1:A:8:MET:HE3	0.45	1.88	7	1
1:B:113:HIS:O	1:B:117:LYS:HG2	0.45	2.12	12	1
1:A:20:ALA:CB	1:A:27:ILE:N	0.45	2.79	1	5
1:B:120:ALA:CB	1:B:127:ILE:N	0.45	2.80	6	9
1:B:114:GLN:O	1:B:118:ALA:HB3	0.45	2.12	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:135:LEU:N	1:B:135:LEU:CD1	0.45	2.79	8	1
1:A:53:LEU:HD12	1:A:53:LEU:C	0.45	2.32	5	1
1:A:4:LEU:CD2	1:A:6:ILE:CD1	0.45	2.95	3	1
1:A:31:ALA:CA	1:B:135:LEU:HD22	0.45	2.42	9	5
1:B:114:GLN:O	1:B:118:ALA:CB	0.45	2.64	18	3
1:A:16:LEU:HG	1:A:17:LYS:N	0.45	2.26	18	2
1:B:132:LEU:HD23	1:B:132:LEU:O	0.45	2.12	23	2
1:B:130:TYR:CE1	1:B:134:ARG:CZ	0.45	3.00	23	1
1:A:20:ALA:HB2	1:A:27:ILE:HA	0.45	1.87	1	3
1:A:2:SER:O	1:B:108:MET:N	0.45	2.49	17	2
1:A:35:LEU:HB3	1:B:116:LEU:HD11	0.45	1.89	10	1
1:A:9:THR:CG2	1:A:12:GLN:CB	0.45	2.95	21	1
1:A:2:SER:CB	1:B:108:MET:O	0.45	2.65	18	3
1:B:127:ILE:CG1	1:B:131:ALA:CB	0.45	2.95	6	2
1:A:16:LEU:HD12	1:A:17:LYS:H	0.45	1.71	24	1
1:A:13:HIS:O	1:A:17:LYS:HB3	0.45	2.11	18	1
1:A:6:ILE:HD11	1:B:128:LYS:O	0.44	2.12	7	1
1:A:13:HIS:O	1:A:17:LYS:HE3	0.44	2.12	13	1
1:A:8:MET:O	1:B:102:SER:CB	0.44	2.65	4	2
1:A:27:ILE:HD13	1:B:104:LEU:HD22	0.44	1.87	9	1
1:A:35:LEU:HB2	1:B:116:LEU:HD22	0.44	1.89	15	1
1:A:4:LEU:N	1:B:106:ILE:O	0.44	2.51	23	8
1:A:46:TRP:CB	1:A:49:LEU:HD23	0.44	2.43	5	1
1:A:35:LEU:CD2	1:B:135:LEU:CD2	0.44	2.96	6	2
1:A:35:LEU:CD1	1:B:135:LEU:HD21	0.44	2.41	13	1
1:A:16:LEU:CD1	1:A:17:LYS:N	0.44	2.81	24	1
1:A:32:LEU:HD13	1:A:32:LEU:O	0.44	2.12	10	1
1:B:116:LEU:HD13	1:B:130:TYR:HE2	0.44	1.73	12	2
1:A:16:LEU:HD23	1:A:27:ILE:CD1	0.44	2.38	15	1
1:A:6:ILE:CG2	1:A:8:MET:HE3	0.44	2.42	7	1
1:B:116:LEU:HD12	1:B:117:LYS:H	0.44	1.69	3	1
1:A:20:ALA:CB	1:A:27:ILE:CA	0.44	2.96	19	5
1:A:28:LYS:CE	1:B:105:THR:O	0.44	2.65	16	2
1:B:131:ALA:O	1:B:135:LEU:N	0.44	2.51	10	2
1:B:117:LYS:HE3	1:B:127:ILE:CG1	0.44	2.42	10	1
1:A:13:HIS:HA	1:A:16:LEU:CD1	0.44	2.42	15	1
1:B:109:THR:CG2	1:B:112:GLN:CB	0.44	2.96	15	1
1:A:27:ILE:HG23	1:A:28:LYS:HD3	0.43	1.89	4	1
1:A:16:LEU:CD1	1:A:27:ILE:CD1	0.43	2.95	10	2
1:A:16:LEU:HD12	1:A:17:LYS:N	0.43	2.28	24	1
1:A:11:GLN:O	1:A:14:GLN:CG	0.43	2.66	17	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:106:ILE:HD13	1:B:108:MET:HE2	0.43	1.88	24	2
1:A:20:ALA:HB1	1:A:26:THR:C	0.43	2.34	22	2
1:A:28:LYS:O	1:A:32:LEU:HB2	0.43	2.13	1	1
1:A:13:HIS:CA	1:A:17:LYS:HE3	0.43	2.43	13	1
1:B:117:LYS:O	1:B:117:LYS:CE	0.43	2.66	20	4
1:A:3:ARG:HD3	1:B:105:THR:HG22	0.43	1.89	20	1
1:A:8:MET:CB	1:B:102:SER:O	0.43	2.67	23	1
1:A:53:LEU:N	1:A:53:LEU:CD2	0.43	2.77	8	1
1:B:130:TYR:OH	1:B:134:ARG:CZ	0.43	2.67	10	1
1:A:27:ILE:CG1	1:A:31:ALA:CB	0.43	2.96	9	2
1:B:120:ALA:HB1	1:B:127:ILE:CA	0.43	2.44	23	2
1:A:17:LYS:HA	1:A:27:ILE:HB	0.43	1.89	18	1
1:A:16:LEU:CD2	1:A:27:ILE:CD1	0.43	2.96	3	1
1:B:119:LEU:HB3	1:B:130:TYR:CE2	0.43	2.49	10	2
1:A:35:LEU:CD2	1:B:131:ALA:O	0.43	2.67	2	4
1:B:106:ILE:CG2	1:B:108:MET:CE	0.43	2.97	23	3
1:A:16:LEU:HG	1:A:27:ILE:CD1	0.43	2.44	3	1
1:A:28:LYS:HD3	1:B:106:ILE:HG23	0.43	1.90	6	1
1:A:49:LEU:HD12	1:A:49:LEU:C	0.43	2.32	8	1
1:B:116:LEU:HD13	1:B:130:TYR:CE2	0.43	2.48	12	2
1:A:13:HIS:O	1:A:17:LYS:HE2	0.43	2.14	19	1
1:A:16:LEU:HD23	1:B:135:LEU:CB	0.43	2.40	24	1
1:B:104:LEU:CD2	1:B:135:LEU:CD1	0.43	2.96	7	1
1:A:5:THR:O	1:B:128:LYS:HE2	0.43	2.13	12	1
1:A:8:MET:HB3	1:A:12:GLN:NE2	0.43	2.29	16	1
1:B:109:THR:HG23	1:B:112:GLN:HB2	0.42	1.91	12	1
1:A:2:SER:O	1:B:108:MET:CB	0.42	2.67	17	1
1:A:16:LEU:CD2	1:A:31:ALA:HB2	0.42	2.43	21	1
1:B:116:LEU:H	1:B:116:LEU:HD13	0.42	1.74	23	1
1:B:116:LEU:CD1	1:B:127:ILE:CD1	0.42	2.89	3	2
1:A:8:MET:CE	1:B:135:LEU:HD23	0.42	2.43	8	1
1:B:113:HIS:O	1:B:113:HIS:CD2	0.42	2.72	11	2
1:A:35:LEU:HG	1:B:135:LEU:CD2	0.42	2.43	21	1
1:A:6:ILE:CG2	1:A:8:MET:HE2	0.42	2.44	2	2
1:B:116:LEU:HD23	1:B:117:LYS:CE	0.42	2.45	5	1
1:B:120:ALA:HB1	1:B:127:ILE:HA	0.42	1.90	23	2
1:A:7:ASP:O	1:B:132:LEU:CD1	0.42	2.67	8	1
1:A:28:LYS:CD	1:B:105:THR:O	0.42	2.67	9	2
1:B:120:ALA:HA	1:B:130:TYR:CG	0.42	2.50	10	1
1:B:116:LEU:CD2	1:B:127:ILE:CD1	0.42	2.97	18	2
1:B:117:LYS:HD2	1:B:127:ILE:CD1	0.42	2.44	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:13:HIS:CE1	1:B:104:LEU:HB3	0.42	2.50	14	1
1:A:13:HIS:NE2	1:A:17:LYS:HG3	0.42	2.28	23	1
1:B:123:GLN:OE1	1:B:130:TYR:CD1	0.42	2.73	16	2
1:A:9:THR:OG1	1:A:12:GLN:HG2	0.42	2.14	20	1
1:B:113:HIS:O	1:B:117:LYS:HD3	0.42	2.14	5	1
1:B:119:LEU:HB3	1:B:130:TYR:CZ	0.42	2.49	10	1
1:B:109:THR:CG2	1:B:112:GLN:CG	0.42	2.97	13	1
1:A:6:ILE:HG12	1:B:106:ILE:HD11	0.42	1.92	3	1
1:A:13:HIS:ND1	1:B:102:SER:CB	0.42	2.82	23	1
1:A:27:ILE:CD1	1:B:104:LEU:HD13	0.42	2.44	7	1
1:A:32:LEU:HD22	1:A:32:LEU:O	0.42	2.14	7	1
1:B:120:ALA:O	1:B:125:LYS:O	0.42	2.38	10	1
1:A:4:LEU:HB2	1:B:113:HIS:CE1	0.42	2.50	19	1
1:A:16:LEU:O	1:A:16:LEU:HD12	0.42	2.14	23	1
1:B:120:ALA:HB1	1:B:126:THR:C	0.42	2.35	6	2
1:A:30:TYR:CE1	1:A:34:ARG:HD2	0.42	2.49	10	1
1:A:13:HIS:CD2	1:A:17:LYS:HE3	0.42	2.50	13	1
1:A:13:HIS:O	1:A:13:HIS:CD2	0.42	2.73	20	4
1:A:16:LEU:HD13	1:A:27:ILE:HD13	0.42	1.91	24	1
1:A:23:GLN:OE1	1:A:30:TYR:CE1	0.42	2.73	1	1
1:A:27:ILE:HD12	1:A:27:ILE:O	0.42	2.15	15	1
1:B:123:GLN:OE1	1:B:130:TYR:CG	0.42	2.73	7	1
1:B:128:LYS:O	1:B:132:LEU:HB2	0.42	2.14	8	1
1:A:5:THR:HG21	1:B:103:ARG:NE	0.42	2.30	18	1
1:A:28:LYS:N	1:A:28:LYS:CD	0.41	2.83	4	1
1:B:117:LYS:HG3	1:B:127:ILE:HG21	0.41	1.91	10	1
1:B:117:LYS:HD2	1:B:127:ILE:CB	0.41	2.45	12	1
1:A:27:ILE:HG12	1:A:31:ALA:CB	0.41	2.44	1	1
1:A:4:LEU:CB	1:B:113:HIS:CE1	0.41	3.03	11	1
1:A:16:LEU:HD13	1:A:16:LEU:C	0.41	2.34	11	1
1:A:16:LEU:HA	1:A:19:LEU:CD2	0.41	2.43	14	1
1:A:13:HIS:CA	1:A:17:LYS:HE2	0.41	2.44	19	1
1:A:3:ARG:CG	1:B:106:ILE:O	0.41	2.69	16	1
1:A:5:THR:O	1:B:128:LYS:CD	0.41	2.69	20	1
1:B:104:LEU:CD1	1:B:106:ILE:CG1	0.41	2.97	23	1
1:B:106:ILE:N	1:B:106:ILE:CD1	0.41	2.79	3	1
1:A:35:LEU:HD21	1:B:135:LEU:HD11	0.41	1.92	8	1
1:A:17:LYS:HD2	1:A:27:ILE:CB	0.41	2.46	13	1
1:A:6:ILE:HD13	1:A:35:LEU:HD21	0.41	1.92	14	1
1:A:16:LEU:CD2	1:A:16:LEU:C	0.41	2.88	15	1
1:A:46:TRP:CE3	1:A:49:LEU:CD1	0.41	3.04	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:35:LEU:HD13	1:B:116:LEU:CD2	0.41	2.46	5	1
1:B:106:ILE:HG21	1:B:108:MET:HE1	0.41	1.93	17	1
1:A:13:HIS:HA	1:A:17:LYS:CE	0.41	2.45	13	1
1:B:117:LYS:CE	1:B:117:LYS:O	0.41	2.69	1	1
1:A:35:LEU:HD21	1:B:131:ALA:O	0.41	2.16	12	2
1:A:19:LEU:HB3	1:A:30:TYR:CE2	0.41	2.51	12	1
1:B:113:HIS:O	1:B:117:LYS:CG	0.41	2.69	12	1
1:A:17:LYS:O	1:A:17:LYS:CE	0.41	2.69	14	1
1:A:28:LYS:O	1:A:32:LEU:CB	0.41	2.69	18	1
1:B:117:LYS:HE3	1:B:127:ILE:HG22	0.41	1.93	22	1
1:A:16:LEU:HD13	1:A:27:ILE:CD1	0.41	2.46	24	1
1:B:111:GLN:O	1:B:114:GLN:CG	0.41	2.69	2	2
1:B:123:GLN:CG	1:B:125:LYS:CG	0.41	2.99	4	1
1:B:123:GLN:NE2	1:B:130:TYR:CD1	0.41	2.89	9	1
1:B:104:LEU:O	1:B:104:LEU:HG	0.41	2.16	20	1
1:A:41:ASP:OD1	1:A:45:ALA:HB2	0.41	2.16	21	1
1:B:128:LYS:CD	1:B:128:LYS:N	0.40	2.83	17	1
1:A:13:HIS:CE1	1:A:17:LYS:HG3	0.40	2.51	23	1
1:A:4:LEU:HB3	1:B:113:HIS:CE1	0.40	2.51	11	1
1:B:113:HIS:HA	1:B:116:LEU:CD1	0.40	2.47	23	2
1:A:31:ALA:O	1:A:35:LEU:CG	0.40	2.69	14	1
1:B:117:LYS:HG3	1:B:127:ILE:CG2	0.40	2.47	10	1
1:A:5:THR:CG2	1:B:103:ARG:NE	0.40	2.83	18	1
1:B:116:LEU:HG	1:B:117:LYS:N	0.40	2.32	16	1
1:A:35:LEU:HD13	1:B:116:LEU:HG	0.40	1.94	7	1
1:B:119:LEU:HD11	1:B:130:TYR:CE2	0.40	2.52	17	1
1:A:34:ARG:O	1:B:134:ARG:CG	0.40	2.69	21	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	51/83 (61%)	45±2 (89±4%)	5±2 (10±4%)	1±1 (1±2%)	11	57
1	B	34/83 (41%)	32±1 (95±3%)	2±1 (5±3%)	0±0 (0±1%)	27	74

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	2040/3984 (51%)	1859 (91%)	159 (8%)	22 (1%)	15 64

All 11 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	54	GLY	4
1	A	10	ASP	3
1	B	102	SER	3
1	A	2	SER	2
1	A	52	MET	2
1	A	53	LEU	2
1	A	55	ASN	2
1	B	110	ASP	1
1	A	41	ASP	1
1	A	45	ALA	1
1	A	51	THR	1

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	42/67 (63%)	25±3 (60±7%)	17±3 (40±7%)	0 4
1	B	29/67 (43%)	16±2 (57±8%)	13±2 (43±8%)	0 3
All	All	1704/3216 (53%)	998 (59%)	706 (41%)	0 4

All 62 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	19	LEU	24
1	B	104	LEU	24
1	B	119	LEU	24
1	A	17	LYS	23
1	A	8	MET	22
1	B	108	MET	22

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Mol	Chain	Res	Type	Models (Total)
1	A	2	SER	21
1	B	117	LYS	21
1	A	4	LEU	19
1	A	12	GLN	19
1	B	109	THR	19
1	B	134	ARG	18
1	B	128	LYS	18
1	B	102	SER	17
1	B	127	ILE	17
1	A	23	GLN	17
1	A	29	GLN	17
1	A	27	ILE	16
1	A	50	LYS	16
1	B	129	GLN	16
1	A	34	ARG	15
1	A	16	LEU	15
1	A	9	THR	14
1	B	123	GLN	14
1	B	112	GLN	14
1	B	116	LEU	14
1	A	28	LYS	13
1	A	53	LEU	13
1	B	115	SER	13
1	A	15	SER	13
1	A	25	LYS	12
1	A	47	GLN	12
1	A	49	LEU	11
1	B	111	GLN	10
1	B	125	LYS	9
1	A	43	ASP	8
1	A	46	TRP	8
1	A	52	MET	8
1	A	51	THR	7
1	B	122	LEU	7
1	A	32	LEU	7
1	A	3	ARG	7
1	A	55	ASN	6
1	A	11	GLN	6
1	B	132	LEU	6
1	A	10	ASP	6
1	A	44	GLN	5
1	A	41	ASP	5

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Mol	Chain	Res	Type	Models (Total)
1	B	103	ARG	5
1	A	22	LEU	5
1	B	110	ASP	4
1	A	48	GLU	4
1	A	6	ILE	3
1	A	39	ASP	3
1	B	105	THR	3
1	B	106	ILE	2
1	B	135	LEU	2
1	A	35	LEU	2
1	B	130	TYR	2
1	A	5	THR	1
1	B	113	HIS	1
1	A	30	TYR	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation i

The completeness of assignment taking into account all chemical shift lists is 77% for the well-defined parts and 77% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping i

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

Total number of shifts	1712
Number of shifts mapped to atoms	1712
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	18

7.1.2 Chemical shift referencing i

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	160	-1.40 \pm 0.09	Should be checked
$^{13}\text{C}_\beta$	146	-0.20 \pm 0.07	None needed (< 0.5 ppm)
$^{13}\text{C}'$	158	0.91 \pm 0.33	Should be applied
^{15}N	158	0.42 \pm 0.29	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments i

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 77%, i.e. 913 atoms were assigned a chemical shift out of a possible 1190. 0 out of 14 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	405/428 (95%)	162/173 (94%)	162/170 (95%)	81/85 (95%)
Sidechain	495/716 (69%)	310/464 (67%)	172/220 (78%)	13/32 (41%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	13/46 (28%)	12/22 (55%)	0/19 (0%)	1/5 (20%)
Overall	913/1190 (77%)	484/659 (73%)	334/409 (82%)	95/122 (78%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 77%, i.e. 1712 atoms were assigned a chemical shift out of a possible 2214. 0 out of 26 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	796/840 (95%)	320/344 (93%)	318/332 (96%)	158/164 (96%)
Sidechain	890/1296 (69%)	548/838 (65%)	324/404 (80%)	18/54 (33%)
Aromatic	26/78 (33%)	24/38 (63%)	0/34 (0%)	2/6 (33%)
Overall	1712/2214 (77%)	892/1220 (73%)	642/770 (83%)	178/224 (79%)

7.1.4 Statistically unusual chemical shifts

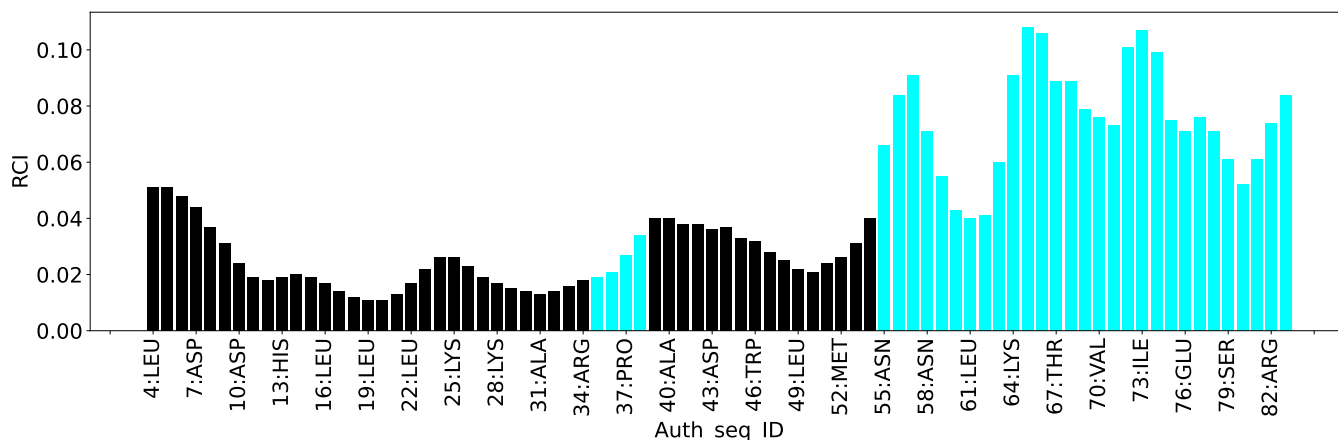
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	19	LEU	CG	67.09	21.37 – 32.19	37.3
1	B	119	LEU	CG	67.09	21.37 – 32.19	37.3
1	A	9	THR	CG2	61.67	16.06 – 27.03	36.6
1	B	109	THR	CG2	61.67	16.06 – 27.03	36.6
1	A	58	ASN	CG	112.29	164.52 – 188.90	-26.4
1	B	158	ASN	CG	112.29	164.52 – 188.90	-26.4
1	A	11	GLN	CD	171.82	173.59 – 185.85	-6.4
1	B	111	GLN	CD	171.82	173.59 – 185.85	-6.4
1	A	44	GLN	CD	171.87	173.59 – 185.85	-6.4
1	B	144	GLN	CD	171.87	173.59 – 185.85	-6.4
1	A	47	GLN	CD	172.04	173.59 – 185.85	-6.3
1	B	147	GLN	CD	172.04	173.59 – 185.85	-6.3
1	A	14	GLN	CD	172.05	173.59 – 185.85	-6.2
1	B	114	GLN	CD	172.05	173.59 – 185.85	-6.2
1	A	23	GLN	CD	172.28	173.59 – 185.85	-6.1
1	B	123	GLN	CD	172.28	173.59 – 185.85	-6.1
1	A	29	GLN	CD	172.37	173.59 – 185.85	-6.0
1	B	129	GLN	CD	172.37	173.59 – 185.85	-6.0

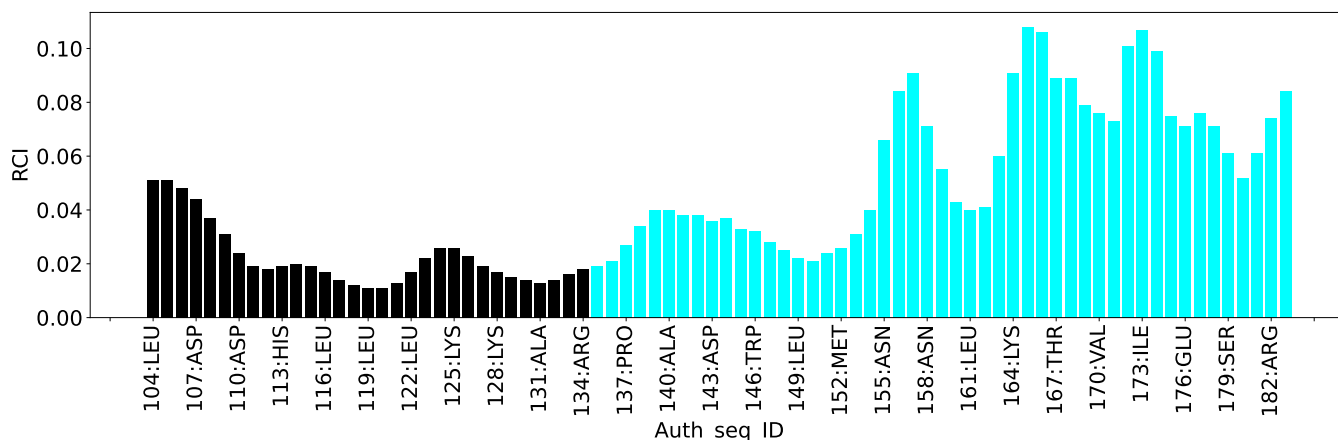
7.1.5 Random Coil Index (RCI) plots [i](#)

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 A:



Random coil index (RCI) for chain B:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

The following table provides the summary of experimentally observed NMR restraints in different categories. Restraints are classified into different categories based on the sequence separation of the atoms involved.

Description	Value
Total distance restraints	2108
Intra-residue ($ i-j =0$)	862
Sequential ($ i-j =1$)	498
Medium range ($ i-j >1$ and $ i-j <5$)	300
Long range ($ i-j \geq 5$)	122
Inter-chain	326
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	12.7
Number of long range restraints per residue ¹	0.7

¹Long range hydrogen bonds and disulfide bonds are counted as long range restraints while calculating the number of long range restraints per residue

8.2 Residual restraint violations

This section provides the overview of the restraint violations analysis. The violations are binned as small, medium and large violations based on its absolute value. Average number of violations per model is calculated by dividing the total number of violations in each bin by the size of the ensemble.

8.2.1 Average number of distance violations per model

Distance violations less than 0.1 Å are not included in the calculation.

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	13.4	0.2
0.2-0.5 (Medium)	2.7	0.5
>0.5 (Large)	1.4	1.18

8.2.2 Average number of dihedral-angle violations per model

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

9 Distance violation analysis i

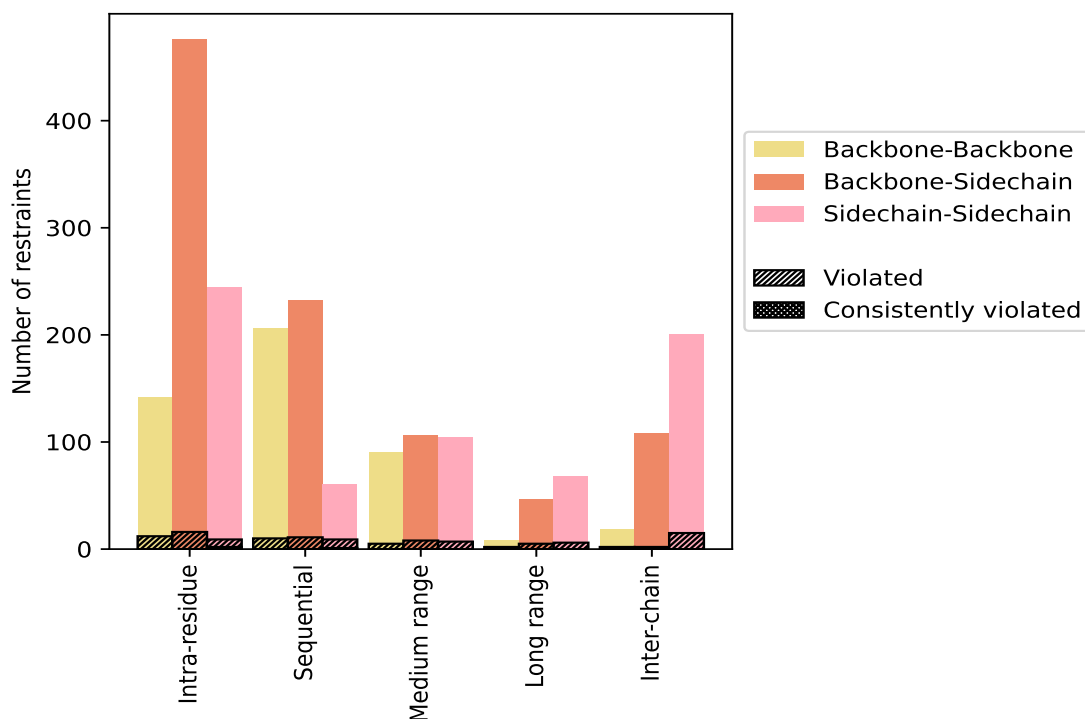
9.1 Summary of distance violations i

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 ($i-j =0$)	862	40.9	37	4.3	1.8	2	0.2	0.1
Backbone-Backbone	142	6.7	12	8.5	0.6	0	0.0	0.0
Backbone-Sidechain	476	22.6	16	3.4	0.8	0	0.0	0.0
Sidechain-Sidechain	244	11.6	9	3.7	0.4	2	0.8	0.1
Sequential ($i-j =1$)	498	23.6	30	6.0	1.4	1	0.2	0.0
Backbone-Backbone	206	9.8	10	4.9	0.5	0	0.0	0.0
Backbone-Sidechain	232	11.0	11	4.7	0.5	0	0.0	0.0
Sidechain-Sidechain	60	2.8	9	15.0	0.4	1	1.7	0.0
Medium range ($i-j >1$ & $i-j <5$)	300	14.2	20	6.7	0.9	0	0.0	0.0
Backbone-Backbone	90	4.3	5	5.6	0.2	0	0.0	0.0
Backbone-Sidechain	106	5.0	8	7.5	0.4	0	0.0	0.0
Sidechain-Sidechain	104	4.9	7	6.7	0.3	0	0.0	0.0
Long range ($i-j \geq 5$)	122	5.8	13	10.7	0.6	0	0.0	0.0
Backbone-Backbone	8	0.4	2	25.0	0.1	0	0.0	0.0
Backbone-Sidechain	46	2.2	5	10.9	0.2	0	0.0	0.0
Sidechain-Sidechain	68	3.2	6	8.8	0.3	0	0.0	0.0
Inter-chain	326	15.5	19	5.8	0.9	0	0.0	0.0
Backbone-Backbone	18	0.9	2	11.1	0.1	0	0.0	0.0
Backbone-Sidechain	108	5.1	2	1.9	0.1	0	0.0	0.0
Sidechain-Sidechain	200	9.5	15	7.5	0.7	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2108	100.0	119	5.6	5.6	3	0.1	0.1
Backbone-Backbone	464	22.0	31	6.7	1.5	0	0.0	0.0
Backbone-Sidechain	968	45.9	42	4.3	2.0	0	0.0	0.0
Sidechain-Sidechain	676	32.1	46	6.8	2.2	3	0.4	0.1

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	3	4	2	0	2	11	0.27	0.84	0.27	0.12
2	4	6	2	1	6	19	0.2	0.59	0.15	0.13
3	10	8	8	2	1	29	0.2	0.86	0.16	0.13
4	6	5	1	1	4	17	0.15	0.44	0.08	0.13
5	7	5	2	5	3	22	0.16	0.35	0.06	0.14
6	5	6	2	0	4	17	0.18	0.89	0.19	0.12
7	6	6	0	0	4	16	0.28	1.08	0.26	0.15
8	6	6	1	0	4	17	0.27	0.86	0.22	0.16
9	4	7	0	1	4	16	0.25	0.89	0.24	0.12
10	4	9	2	6	3	24	0.19	0.64	0.14	0.14

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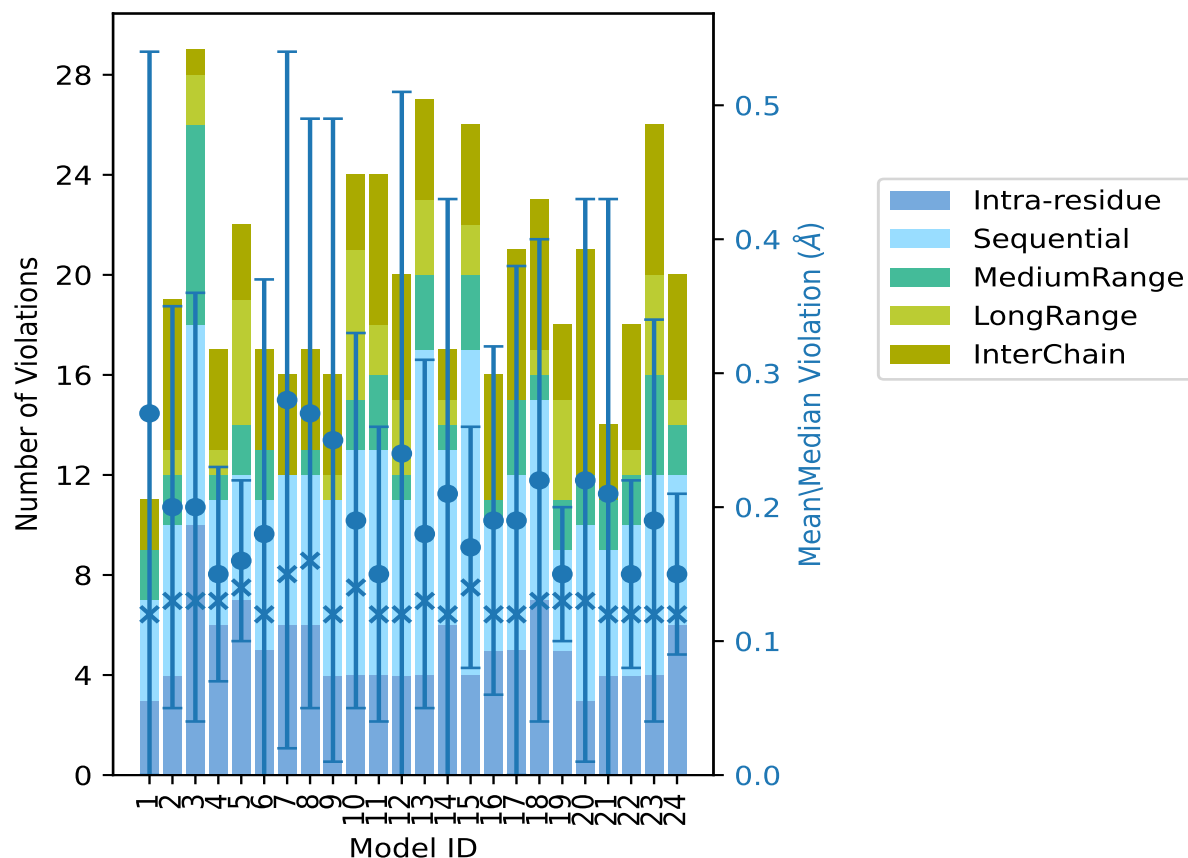
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	4	9	3	2	6	24	0.15	0.65	0.11	0.12
12	4	7	1	3	5	20	0.24	1.18	0.27	0.12
13	4	13	3	3	4	27	0.18	0.65	0.13	0.13
14	6	7	1	1	2	17	0.21	0.93	0.22	0.12
15	4	13	3	2	4	26	0.17	0.55	0.09	0.14
16	5	5	1	0	5	16	0.19	0.5	0.13	0.12
17	5	7	3	0	6	21	0.19	0.88	0.19	0.12
18	7	8	1	1	6	23	0.22	0.73	0.18	0.13
19	5	4	2	4	3	18	0.15	0.3	0.05	0.13
20	3	7	2	0	9	21	0.22	0.86	0.21	0.13
21	4	5	2	0	3	14	0.21	0.94	0.22	0.12
22	4	6	2	1	5	18	0.15	0.33	0.07	0.12
23	4	8	4	4	6	26	0.19	0.74	0.15	0.12
24	6	6	2	1	5	20	0.15	0.34	0.06	0.12

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, 1989(IR:825, SQ:468, MR:280, LR:109, IC:307) 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	%
22	8	14	2	7	53	1	4.2
6	8	4	6	1	25	2	8.3
2	4	0	3	2	11	3	12.5
1	2	0	0	1	4	4	16.7
1	1	0	0	0	2	5	20.8
2	1	0	0	2	5	6	25.0

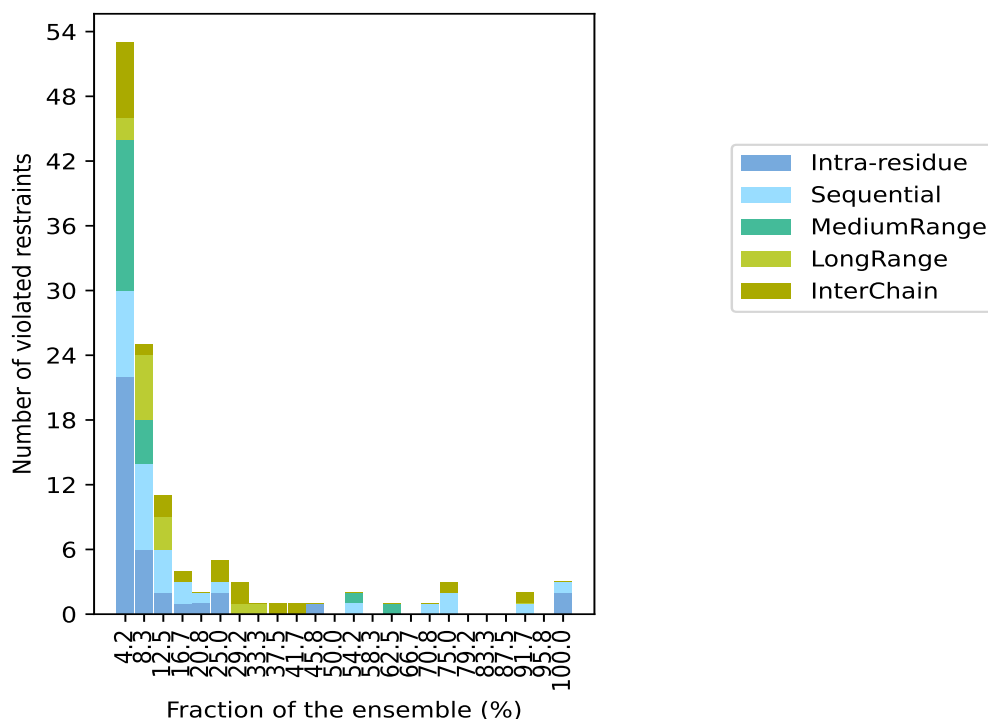
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	0	1	2	3	7	29.2
0	0	0	1	0	1	8	33.3
0	0	0	0	1	1	9	37.5
0	0	0	0	1	1	10	41.7
1	0	0	0	0	1	11	45.8
0	0	0	0	0	0	12	50.0
0	1	1	0	0	2	13	54.2
0	0	0	0	0	0	14	58.3
0	0	1	0	0	1	15	62.5
0	0	0	0	0	0	16	66.7
0	1	0	0	0	1	17	70.8
0	2	0	0	1	3	18	75.0
0	0	0	0	0	0	19	79.2
0	0	0	0	0	0	20	83.3
0	0	0	0	0	0	21	87.5
0	1	0	0	1	2	22	91.7
0	0	0	0	0	0	23	95.8
2	1	0	0	0	3	24	100.0

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints, ⁵Inter-chain restraints, ⁶ Number of models with violations

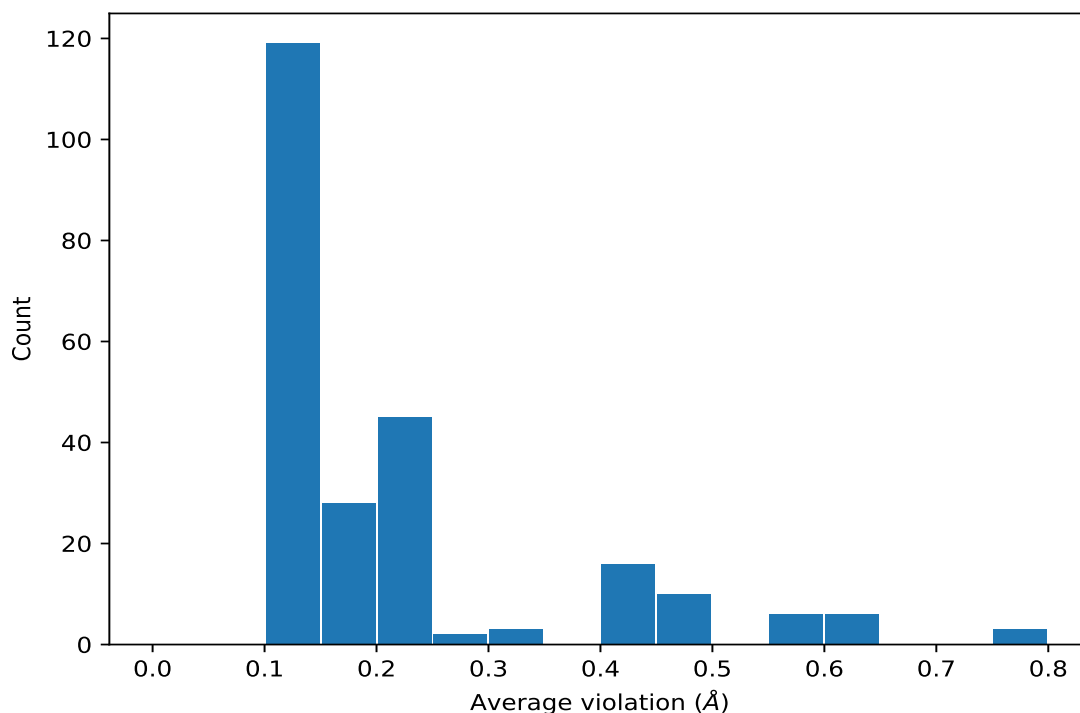
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	24	0.14	0.02	0.13
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	24	0.14	0.02	0.13
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	24	0.14	0.02	0.13
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	24	0.14	0.02	0.13
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	24	0.12	0.0	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	24	0.12	0.0	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	24	0.12	0.0	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	24	0.12	0.0	0.12
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	22	0.16	0.03	0.15
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	22	0.16	0.03	0.15
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	22	0.16	0.03	0.15
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	22	0.16	0.03	0.15
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	22	0.16	0.03	0.15
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	22	0.16	0.03	0.15
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	22	0.16	0.03	0.15
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	22	0.16	0.03	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	22	0.16	0.03	0.15
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	22	0.14	0.03	0.13
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	22	0.14	0.03	0.13
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	22	0.14	0.03	0.13
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	22	0.14	0.03	0.13
(1,636)	1:45:A:ALA:HB1	1:46:A:TRP:HZ3	18	0.62	0.26	0.62
(1,636)	1:45:A:ALA:HB3	1:46:A:TRP:HZ2	18	0.62	0.26	0.62
(1,636)	1:45:A:ALA:HB2	1:46:A:TRP:HZ2	18	0.62	0.26	0.62
(1,636)	1:45:A:ALA:HB3	1:46:A:TRP:HZ3	18	0.62	0.26	0.62
(1,636)	1:45:A:ALA:HB2	1:46:A:TRP:HZ3	18	0.62	0.26	0.62
(1,636)	1:45:A:ALA:HB1	1:46:A:TRP:HZ2	18	0.62	0.26	0.62
(1,1690)	1:145:B:ALA:HB3	1:146:B:TRP:HZ2	18	0.59	0.21	0.55
(1,1690)	1:145:B:ALA:HB2	1:146:B:TRP:HZ2	18	0.59	0.21	0.55
(1,1690)	1:145:B:ALA:HB1	1:146:B:TRP:HZ2	18	0.59	0.21	0.55
(1,1690)	1:145:B:ALA:HB2	1:146:B:TRP:HZ3	18	0.59	0.21	0.55
(1,1690)	1:145:B:ALA:HB1	1:146:B:TRP:HZ3	18	0.59	0.21	0.55
(1,1690)	1:145:B:ALA:HB3	1:146:B:TRP:HZ3	18	0.59	0.21	0.55
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	18	0.15	0.03	0.15
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	18	0.15	0.03	0.15
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	18	0.15	0.03	0.15
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	18	0.15	0.03	0.15
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	18	0.15	0.03	0.15
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	18	0.15	0.03	0.15
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	18	0.15	0.03	0.15
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	18	0.15	0.03	0.15
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	18	0.15	0.03	0.15
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	17	0.11	0.01	0.11
(1,1255)	1:117:B:LYS:H	1:114:B:GLN:H	15	0.13	0.02	0.12
(1,201)	1:17:A:LYS:H	1:14:A:GLN:H	13	0.13	0.03	0.12
(1,474)	1:32:A:LEU:HA	1:31:A:ALA:H	13	0.13	0.02	0.11
(1,1643)	1:140:B:ALA:H	1:140:B:ALA:HA	11	0.11	0.01	0.11
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG21	10	0.44	0.18	0.38
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG22	10	0.44	0.18	0.38
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG23	10	0.44	0.18	0.38
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG12	10	0.44	0.18	0.38
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG13	10	0.44	0.18	0.38
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG12	10	0.44	0.18	0.38
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG13	10	0.44	0.18	0.38
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG21	10	0.44	0.18	0.38
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG22	10	0.44	0.18	0.38
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG23	10	0.44	0.18	0.38
(1,2073)	1:128:B:LYS:HG2	1:6:A:ILE:HG12	9	0.47	0.25	0.47

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2073)	1:128:B:LYS:HG2	1:6:A:ILE:HG13	9	0.47	0.25	0.47
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG12	9	0.47	0.25	0.47
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG13	9	0.47	0.25	0.47
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG21	9	0.47	0.25	0.47
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG22	9	0.47	0.25	0.47
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG23	9	0.47	0.25	0.47
(1,2073)	1:128:B:LYS:HG2	1:6:A:ILE:HG21	9	0.47	0.25	0.47
(1,2073)	1:128:B:LYS:HG2	1:6:A:ILE:HG22	9	0.47	0.25	0.47
(1,2073)	1:128:B:LYS:HG2	1:6:A:ILE:HG23	9	0.47	0.25	0.47
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG12	8	0.23	0.06	0.22
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG13	8	0.23	0.06	0.22
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG12	8	0.23	0.06	0.22
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG13	8	0.23	0.06	0.22
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG12	8	0.23	0.06	0.22
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG13	8	0.23	0.06	0.22
(1,251)	1:20:A:ALA:HB1	1:27:A:ILE:HG12	7	0.18	0.04	0.17
(1,251)	1:20:A:ALA:HB1	1:27:A:ILE:HG13	7	0.18	0.04	0.17
(1,251)	1:20:A:ALA:HB2	1:27:A:ILE:HG12	7	0.18	0.04	0.17
(1,251)	1:20:A:ALA:HB2	1:27:A:ILE:HG13	7	0.18	0.04	0.17
(1,251)	1:20:A:ALA:HB3	1:27:A:ILE:HG12	7	0.18	0.04	0.17
(1,251)	1:20:A:ALA:HB3	1:27:A:ILE:HG13	7	0.18	0.04	0.17
(1,971)	1:8:A:MET:HE1	1:136:B:PHE:HD1	7	0.12	0.03	0.12
(1,971)	1:8:A:MET:HE1	1:136:B:PHE:HD2	7	0.12	0.03	0.12
(1,971)	1:8:A:MET:HE2	1:136:B:PHE:HD1	7	0.12	0.03	0.12
(1,971)	1:8:A:MET:HE2	1:136:B:PHE:HD2	7	0.12	0.03	0.12
(1,971)	1:8:A:MET:HE3	1:136:B:PHE:HD1	7	0.12	0.03	0.12
(1,971)	1:8:A:MET:HE3	1:136:B:PHE:HD2	7	0.12	0.03	0.12
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG21	7	0.11	0.01	0.11
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG22	7	0.11	0.01	0.11
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG23	7	0.11	0.01	0.11
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG21	6	0.42	0.16	0.41
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG22	6	0.42	0.16	0.41
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG23	6	0.42	0.16	0.41
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG12	6	0.42	0.16	0.41
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG13	6	0.42	0.16	0.41
(1,69)	1:8:A:MET:HE1	1:8:A:MET:HB2	6	0.15	0.05	0.14
(1,69)	1:8:A:MET:HE1	1:8:A:MET:HB3	6	0.15	0.05	0.14
(1,69)	1:8:A:MET:HE2	1:8:A:MET:HB2	6	0.15	0.05	0.14
(1,69)	1:8:A:MET:HE2	1:8:A:MET:HB3	6	0.15	0.05	0.14
(1,69)	1:8:A:MET:HE3	1:8:A:MET:HB2	6	0.15	0.05	0.14
(1,69)	1:8:A:MET:HE3	1:8:A:MET:HB3	6	0.15	0.05	0.14
(1,2025)	1:108:B:MET:HE1	1:36:A:PHE:HD1	6	0.11	0.01	0.11

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2025)	1:108:B:MET:HE1	1:36:A:PHE:HD2	6	0.11	0.01	0.11
(1,2025)	1:108:B:MET:HE2	1:36:A:PHE:HD1	6	0.11	0.01	0.11
(1,2025)	1:108:B:MET:HE2	1:36:A:PHE:HD2	6	0.11	0.01	0.11
(1,2025)	1:108:B:MET:HE3	1:36:A:PHE:HD1	6	0.11	0.01	0.11
(1,2025)	1:108:B:MET:HE3	1:36:A:PHE:HD2	6	0.11	0.01	0.11
(1,589)	1:40:A:ALA:H	1:40:A:ALA:HA	6	0.11	0.0	0.11
(1,463)	1:31:A:ALA:HA	1:32:A:LEU:HB2	6	0.1	0.0	0.1
(1,463)	1:31:A:ALA:HA	1:32:A:LEU:HB3	6	0.1	0.0	0.1
(1,1123)	1:108:B:MET:HE1	1:108:B:MET:HB2	5	0.13	0.02	0.12
(1,1123)	1:108:B:MET:HE1	1:108:B:MET:HB3	5	0.13	0.02	0.12
(1,1123)	1:108:B:MET:HE2	1:108:B:MET:HB2	5	0.13	0.02	0.12
(1,1123)	1:108:B:MET:HE2	1:108:B:MET:HB3	5	0.13	0.02	0.12
(1,1123)	1:108:B:MET:HE3	1:108:B:MET:HB2	5	0.13	0.02	0.12
(1,1123)	1:108:B:MET:HE3	1:108:B:MET:HB3	5	0.13	0.02	0.12
(1,1517)	1:131:B:ALA:HA	1:132:B:LEU:HB2	5	0.1	0.0	0.1
(1,1517)	1:131:B:ALA:HA	1:132:B:LEU:HB3	5	0.1	0.0	0.1
(1,914)	1:4:A:LEU:HB3	1:106:B:ILE:HG21	4	0.75	0.12	0.76
(1,914)	1:4:A:LEU:HB3	1:106:B:ILE:HG22	4	0.75	0.12	0.76
(1,914)	1:4:A:LEU:HB3	1:106:B:ILE:HG23	4	0.75	0.12	0.76
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD11	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD12	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD13	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD21	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD22	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD23	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD11	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD12	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD13	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD21	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD22	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD23	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD11	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD12	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD13	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD21	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD22	4	0.23	0.05	0.24
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD23	4	0.23	0.05	0.24
(1,196)	1:17:A:LYS:HD2	1:18:A:ALA:H	4	0.22	0.1	0.22
(1,196)	1:17:A:LYS:HD3	1:18:A:ALA:H	4	0.22	0.1	0.22
(1,222)	1:19:A:LEU:HA	1:19:A:LEU:HG	4	0.15	0.02	0.15
(1,33)	1:6:A:ILE:HD11	1:6:A:ILE:HB	3	0.34	0.0	0.34
(1,33)	1:6:A:ILE:HD12	1:6:A:ILE:HB	3	0.34	0.0	0.34

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,33)	1:6:A:ILE:HD13	1:6:A:ILE:HB	3	0.34	0.0	0.34
(1,1250)	1:117:B:LYS:HD2	1:118:B:ALA:H	3	0.25	0.07	0.27
(1,1250)	1:117:B:LYS:HD3	1:118:B:ALA:H	3	0.25	0.07	0.27
(1,1185)	1:113:B:HIS:HD2	1:127:B:ILE:HB	3	0.21	0.03	0.23
(1,280)	1:22:A:LEU:HA	1:21:A:ALA:H	3	0.15	0.04	0.18
(1,1339)	1:122:B:LEU:HA	1:122:B:LEU:HG	3	0.15	0.0	0.15
(1,1220)	1:116:B:LEU:HB2	1:117:B:LYS:H	3	0.14	0.01	0.14
(1,1220)	1:116:B:LEU:HB3	1:117:B:LYS:H	3	0.14	0.01	0.14
(1,2079)	1:131:B:ALA:HA	1:35:A:LEU:H	3	0.12	0.01	0.11
(1,1204)	1:114:B:GLN:H	1:115:B:SER:HA	3	0.11	0.01	0.11
(1,1419)	1:127:B:ILE:HG21	1:117:B:LYS:HA	3	0.11	0.0	0.11
(1,1419)	1:127:B:ILE:HG22	1:117:B:LYS:HA	3	0.11	0.0	0.11
(1,1419)	1:127:B:ILE:HG23	1:117:B:LYS:HA	3	0.11	0.0	0.11
(1,1025)	1:31:A:ALA:HA	1:135:B:LEU:H	3	0.11	0.01	0.11
(1,261)	1:20:A:ALA:HA	1:31:A:ALA:H	3	0.1	0.0	0.1
(1,739)	1:53:A:LEU:H	1:53:A:LEU:HG	2	0.42	0.0	0.42
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD11	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD12	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD13	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD21	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD22	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD23	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD11	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD12	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD13	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD21	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD22	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD23	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD11	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD12	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD13	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD21	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD22	2	0.2	0.03	0.2
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD23	2	0.2	0.03	0.2
(1,131)	1:13:A:HIS:HD2	1:27:A:ILE:HB	2	0.18	0.01	0.18
(1,1753)	1:149:B:LEU:HA	1:152:B:MET:HB2	2	0.18	0.05	0.18
(1,1753)	1:149:B:LEU:HA	1:152:B:MET:HB3	2	0.18	0.05	0.18
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD11	2	0.17	0.0	0.17
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD12	2	0.17	0.0	0.17
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD13	2	0.17	0.0	0.17
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD21	2	0.17	0.0	0.17
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD22	2	0.17	0.0	0.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD23	2	0.17	0.0	0.17
(1,1741)	1:148:B:GLU:HA	1:151:B:THR:HA	2	0.16	0.03	0.16
(1,1649)	1:141:B:ASP:H	1:140:B:ALA:HB1	2	0.16	0.02	0.16
(1,1649)	1:141:B:ASP:H	1:140:B:ALA:HB2	2	0.16	0.02	0.16
(1,1649)	1:141:B:ASP:H	1:140:B:ALA:HB3	2	0.16	0.02	0.16
(1,968)	1:8:A:MET:HE1	1:104:B:LEU:H	2	0.15	0.02	0.15
(1,968)	1:8:A:MET:HE2	1:104:B:LEU:H	2	0.15	0.02	0.15
(1,968)	1:8:A:MET:HE3	1:104:B:LEU:H	2	0.15	0.02	0.15
(1,285)	1:22:A:LEU:HA	1:22:A:LEU:HG	2	0.15	0.0	0.15
(1,362)	1:27:A:ILE:HD11	1:17:A:LYS:HG2	2	0.14	0.03	0.14
(1,362)	1:27:A:ILE:HD11	1:17:A:LYS:HG3	2	0.14	0.03	0.14
(1,362)	1:27:A:ILE:HD12	1:17:A:LYS:HG2	2	0.14	0.03	0.14
(1,362)	1:27:A:ILE:HD12	1:17:A:LYS:HG3	2	0.14	0.03	0.14
(1,362)	1:27:A:ILE:HD13	1:17:A:LYS:HG2	2	0.14	0.03	0.14
(1,362)	1:27:A:ILE:HD13	1:17:A:LYS:HG3	2	0.14	0.03	0.14
(1,1415)	1:127:B:ILE:HD11	1:117:B:LYS:HA	2	0.14	0.0	0.14
(1,1415)	1:127:B:ILE:HD12	1:117:B:LYS:HA	2	0.14	0.0	0.14
(1,1415)	1:127:B:ILE:HD13	1:117:B:LYS:HA	2	0.14	0.0	0.14
(1,637)	1:45:A:ALA:HB1	1:46:A:TRP:HD1	2	0.14	0.01	0.14
(1,637)	1:45:A:ALA:HB2	1:46:A:TRP:HD1	2	0.14	0.01	0.14
(1,637)	1:45:A:ALA:HB3	1:46:A:TRP:HD1	2	0.14	0.01	0.14
(1,365)	1:27:A:ILE:HG21	1:17:A:LYS:HA	2	0.13	0.0	0.13
(1,365)	1:27:A:ILE:HG22	1:17:A:LYS:HA	2	0.13	0.0	0.13
(1,365)	1:27:A:ILE:HG23	1:17:A:LYS:HA	2	0.13	0.0	0.13
(1,547)	1:35:A:LEU:H	1:36:A:PHE:HA	2	0.13	0.01	0.13
(1,1120)	1:108:B:MET:HG2	1:106:B:ILE:HG12	2	0.12	0.02	0.12
(1,1120)	1:108:B:MET:HG2	1:106:B:ILE:HG13	2	0.12	0.02	0.12
(1,1120)	1:108:B:MET:HG3	1:106:B:ILE:HG12	2	0.12	0.02	0.12
(1,1120)	1:108:B:MET:HG3	1:106:B:ILE:HG13	2	0.12	0.02	0.12
(1,1601)	1:135:B:LEU:H	1:136:B:PHE:HA	2	0.12	0.01	0.12
(1,166)	1:16:A:LEU:HB2	1:17:A:LYS:H	2	0.12	0.02	0.12
(1,166)	1:16:A:LEU:HB3	1:17:A:LYS:H	2	0.12	0.02	0.12
(1,1315)	1:120:B:ALA:HA	1:131:B:ALA:H	2	0.12	0.01	0.12
(1,595)	1:41:A:ASP:H	1:40:A:ALA:HB1	2	0.12	0.0	0.12
(1,595)	1:41:A:ASP:H	1:40:A:ALA:HB2	2	0.12	0.0	0.12
(1,595)	1:41:A:ASP:H	1:40:A:ALA:HB3	2	0.12	0.0	0.12
(1,610)	1:43:A:ASP:H	1:43:A:ASP:HA	2	0.12	0.0	0.12
(1,1583)	1:134:B:ARG:H	1:133:B:GLU:HA	2	0.12	0.0	0.12
(1,180)	1:16:A:LEU:H	1:19:A:LEU:HB2	2	0.11	0.0	0.11
(1,180)	1:16:A:LEU:H	1:19:A:LEU:HB3	2	0.11	0.0	0.11
(1,1416)	1:127:B:ILE:HD11	1:117:B:LYS:HG2	2	0.11	0.0	0.11
(1,1416)	1:127:B:ILE:HD11	1:117:B:LYS:HG3	2	0.11	0.0	0.11

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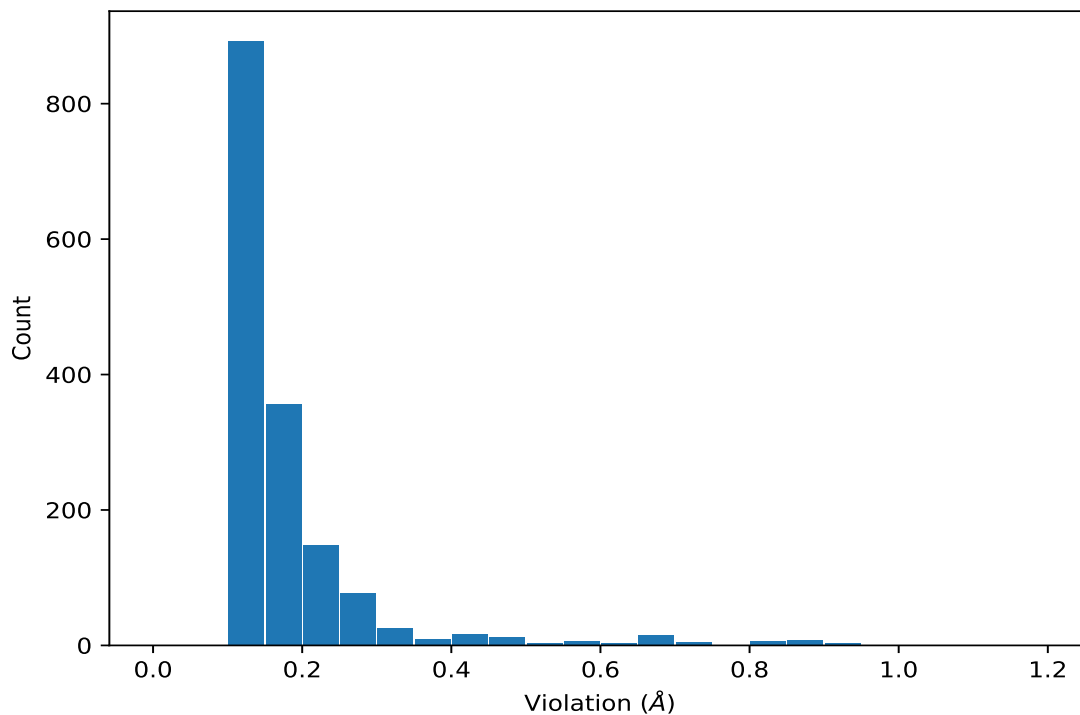
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1416)	1:127:B:ILE:HD12	1:117:B:LYS:HG2	2	0.11	0.0	0.11
(1,1416)	1:127:B:ILE:HD12	1:117:B:LYS:HG3	2	0.11	0.0	0.11
(1,1416)	1:127:B:ILE:HD13	1:117:B:LYS:HG2	2	0.11	0.0	0.11
(1,1416)	1:127:B:ILE:HD13	1:117:B:LYS:HG3	2	0.11	0.0	0.11
(1,779)	1:64:A:LYS:HE2	1:64:A:LYS:HB2	2	0.11	0.0	0.11
(1,779)	1:64:A:LYS:HE2	1:64:A:LYS:HB3	2	0.11	0.0	0.11
(1,779)	1:64:A:LYS:HE3	1:64:A:LYS:HB2	2	0.11	0.0	0.11
(1,779)	1:64:A:LYS:HE3	1:64:A:LYS:HB3	2	0.11	0.0	0.11
(1,1833)	1:164:B:LYS:HE2	1:164:B:LYS:HB2	2	0.1	0.0	0.1
(1,1833)	1:164:B:LYS:HE2	1:164:B:LYS:HB3	2	0.1	0.0	0.1
(1,1833)	1:164:B:LYS:HE3	1:164:B:LYS:HB2	2	0.1	0.0	0.1
(1,1833)	1:164:B:LYS:HE3	1:164:B:LYS:HB3	2	0.1	0.0	0.1

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1690)	1:145:B:ALA:HB2	1:146:B:TRP:HZ2	12	1.18
(1,636)	1:45:A:ALA:HB1	1:46:A:TRP:HZ3	7	1.08
(1,636)	1:45:A:ALA:HB2	1:46:A:TRP:HZ3	21	0.94
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG21	14	0.93
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG22	14	0.93
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG23	14	0.93
(1,914)	1:4:A:LEU:HB3	1:106:B:ILE:HG21	6	0.89
(1,914)	1:4:A:LEU:HB3	1:106:B:ILE:HG22	6	0.89
(1,914)	1:4:A:LEU:HB3	1:106:B:ILE:HG23	6	0.89
(1,636)	1:45:A:ALA:HB3	1:46:A:TRP:HZ3	9	0.89
(1,1690)	1:145:B:ALA:HB3	1:146:B:TRP:HZ3	17	0.88
(1,1690)	1:145:B:ALA:HB2	1:146:B:TRP:HZ3	8	0.86
(1,636)	1:45:A:ALA:HB2	1:46:A:TRP:HZ2	3	0.86
(1,636)	1:45:A:ALA:HB2	1:46:A:TRP:HZ2	20	0.86
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG21	1	0.84
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG22	1	0.84
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG23	1	0.84
(1,914)	1:4:A:LEU:HB3	1:106:B:ILE:HG21	12	0.83
(1,914)	1:4:A:LEU:HB3	1:106:B:ILE:HG22	12	0.83
(1,914)	1:4:A:LEU:HB3	1:106:B:ILE:HG23	12	0.83
(1,636)	1:45:A:ALA:HB1	1:46:A:TRP:HZ3	1	0.78
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG21	8	0.74
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG22	8	0.74
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG23	8	0.74
(1,636)	1:45:A:ALA:HB1	1:46:A:TRP:HZ3	23	0.74
(1,636)	1:45:A:ALA:HB2	1:46:A:TRP:HZ3	18	0.73
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG21	20	0.69
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG22	20	0.69
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG23	20	0.69
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG21	9	0.69
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG22	9	0.69
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG23	9	0.69
(1,914)	1:4:A:LEU:HB3	1:106:B:ILE:HG21	18	0.69
(1,914)	1:4:A:LEU:HB3	1:106:B:ILE:HG22	18	0.69
(1,914)	1:4:A:LEU:HB3	1:106:B:ILE:HG23	18	0.69
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG21	17	0.66
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG22	17	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG23	17	0.66
(1,636)	1:45:A:ALA:HB3	1:46:A:TRP:HZ3	14	0.66
(1,1690)	1:145:B:ALA:HB1	1:146:B:TRP:HZ3	11	0.65
(1,1690)	1:145:B:ALA:HB3	1:146:B:TRP:HZ3	13	0.65
(1,1690)	1:145:B:ALA:HB1	1:146:B:TRP:HZ2	10	0.64
(1,1690)	1:145:B:ALA:HB1	1:146:B:TRP:HZ2	7	0.61
(1,1690)	1:145:B:ALA:HB2	1:146:B:TRP:HZ2	9	0.6
(1,914)	1:4:A:LEU:HB3	1:106:B:ILE:HG21	2	0.59
(1,914)	1:4:A:LEU:HB3	1:106:B:ILE:HG22	2	0.59
(1,914)	1:4:A:LEU:HB3	1:106:B:ILE:HG23	2	0.59
(1,636)	1:45:A:ALA:HB2	1:46:A:TRP:HZ2	10	0.59
(1,1690)	1:145:B:ALA:HB3	1:146:B:TRP:HZ2	18	0.56
(1,636)	1:45:A:ALA:HB2	1:46:A:TRP:HZ3	15	0.55
(1,1690)	1:145:B:ALA:HB2	1:146:B:TRP:HZ2	2	0.54
(1,1690)	1:145:B:ALA:HB2	1:146:B:TRP:HZ2	20	0.54
(1,1690)	1:145:B:ALA:HB3	1:146:B:TRP:HZ2	3	0.53
(1,636)	1:45:A:ALA:HB1	1:46:A:TRP:HZ3	16	0.5
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG21	23	0.49
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG22	23	0.49
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG23	23	0.49
(1,1690)	1:145:B:ALA:HB2	1:146:B:TRP:HZ2	23	0.49
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG12	7	0.47
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG13	7	0.47
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG12	16	0.47
(1,2073)	1:128:B:LYS:HG3	1:6:A:ILE:HG13	16	0.47
(1,1690)	1:145:B:ALA:HB3	1:146:B:TRP:HZ2	21	0.47
(1,636)	1:45:A:ALA:HB3	1:46:A:TRP:HZ2	2	0.47
(1,1690)	1:145:B:ALA:HB3	1:146:B:TRP:HZ2	1	0.46
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG12	7	0.45
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG13	7	0.45
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG12	4	0.44
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG13	4	0.44
(1,636)	1:45:A:ALA:HB3	1:46:A:TRP:HZ2	13	0.44
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG12	8	0.43
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG13	8	0.43
(1,2073)	1:128:B:LYS:HG2	1:6:A:ILE:HG21	20	0.42
(1,2073)	1:128:B:LYS:HG2	1:6:A:ILE:HG22	20	0.42
(1,2073)	1:128:B:LYS:HG2	1:6:A:ILE:HG23	20	0.42
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG21	8	0.42
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG22	8	0.42
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG23	8	0.42
(1,1690)	1:145:B:ALA:HB3	1:146:B:TRP:HZ2	6	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,739)	1:53:A:LEU:H	1:53:A:LEU:HG	7	0.42
(1,739)	1:53:A:LEU:H	1:53:A:LEU:HG	8	0.42
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG12	13	0.4
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG13	13	0.4
(1,1690)	1:145:B:ALA:HB3	1:146:B:TRP:HZ3	16	0.37
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG21	9	0.36
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG22	9	0.36
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG23	9	0.36
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG12	5	0.35
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG13	5	0.35
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG12	5	0.35
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG13	5	0.35
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG12	5	0.35
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG13	5	0.35
(1,1640)	1:140:B:ALA:HA	1:143:B:ASP:HB2	3	0.34
(1,1640)	1:140:B:ALA:HA	1:143:B:ASP:HB3	3	0.34
(1,196)	1:17:A:LYS:HD2	1:18:A:ALA:H	13	0.34
(1,196)	1:17:A:LYS:HD3	1:18:A:ALA:H	13	0.34
(1,33)	1:6:A:ILE:HD11	1:6:A:ILE:HB	18	0.34
(1,33)	1:6:A:ILE:HD12	1:6:A:ILE:HB	18	0.34
(1,33)	1:6:A:ILE:HD13	1:6:A:ILE:HB	18	0.34
(1,33)	1:6:A:ILE:HD11	1:6:A:ILE:HB	24	0.34
(1,33)	1:6:A:ILE:HD12	1:6:A:ILE:HB	24	0.34
(1,33)	1:6:A:ILE:HD13	1:6:A:ILE:HB	24	0.34
(1,1087)	1:106:B:ILE:HD11	1:106:B:ILE:HB	3	0.33
(1,1087)	1:106:B:ILE:HD12	1:106:B:ILE:HB	3	0.33
(1,1087)	1:106:B:ILE:HD13	1:106:B:ILE:HB	3	0.33
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG21	12	0.33
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG22	12	0.33
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG23	12	0.33
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG12	22	0.33
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG13	22	0.33
(1,33)	1:6:A:ILE:HD11	1:6:A:ILE:HB	3	0.33
(1,33)	1:6:A:ILE:HD12	1:6:A:ILE:HB	3	0.33
(1,33)	1:6:A:ILE:HD13	1:6:A:ILE:HB	3	0.33
(1,1250)	1:117:B:LYS:HD2	1:118:B:ALA:H	12	0.32
(1,1250)	1:117:B:LYS:HD3	1:118:B:ALA:H	12	0.32
(1,636)	1:45:A:ALA:HB3	1:46:A:TRP:HZ2	11	0.32
(1,196)	1:17:A:LYS:HD2	1:18:A:ALA:H	19	0.3
(1,196)	1:17:A:LYS:HD3	1:18:A:ALA:H	19	0.3
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG21	15	0.29
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG22	15	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG23	15	0.29
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG12	16	0.29
(1,1019)	1:28:A:LYS:HG3	1:106:B:ILE:HG13	16	0.29
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD11	15	0.29
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD12	15	0.29
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD13	15	0.29
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD21	15	0.29
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD22	15	0.29
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD23	15	0.29
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD11	15	0.29
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD12	15	0.29
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD13	15	0.29
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD21	15	0.29
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD22	15	0.29
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD23	15	0.29
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD11	15	0.29
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD12	15	0.29
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD13	15	0.29
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD21	15	0.29
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD22	15	0.29
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD23	15	0.29
(1,1867)	1:170:B:VAL:H	1:170:B:VAL:HG21	3	0.28
(1,1867)	1:170:B:VAL:H	1:170:B:VAL:HG22	3	0.28
(1,1867)	1:170:B:VAL:H	1:170:B:VAL:HG23	3	0.28
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG12	10	0.28
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG13	10	0.28
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG12	10	0.28
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG13	10	0.28
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG12	10	0.28
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG13	10	0.28
(1,1250)	1:117:B:LYS:HD2	1:118:B:ALA:H	10	0.27
(1,1250)	1:117:B:LYS:HD3	1:118:B:ALA:H	10	0.27
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG12	5	0.27
(1,1019)	1:28:A:LYS:HG2	1:106:B:ILE:HG13	5	0.27
(1,636)	1:45:A:ALA:HB2	1:46:A:TRP:HZ3	22	0.27
(1,1661)	1:143:B:ASP:H	1:141:B:ASP:H	3	0.26
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD11	14	0.26
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD12	14	0.26
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD13	14	0.26
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD21	14	0.26
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD22	14	0.26
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD23	14	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD11	14	0.26
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD12	14	0.26
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD13	14	0.26
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD21	14	0.26
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD22	14	0.26
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD23	14	0.26
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD11	14	0.26
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD12	14	0.26
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD13	14	0.26
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD21	14	0.26
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD22	14	0.26
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD23	14	0.26
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG12	12	0.25
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG13	12	0.25
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG12	12	0.25
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG13	12	0.25
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG12	12	0.25
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG13	12	0.25
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	10	0.25
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	10	0.25
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	10	0.25
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	10	0.25
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	10	0.25
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	10	0.25
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	10	0.25
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	10	0.25
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	10	0.25
(1,69)	1:8:A:MET:HE1	1:8:A:MET:HB2	18	0.25
(1,69)	1:8:A:MET:HE1	1:8:A:MET:HB3	18	0.25
(1,69)	1:8:A:MET:HE2	1:8:A:MET:HB2	18	0.25
(1,69)	1:8:A:MET:HE2	1:8:A:MET:HB3	18	0.25
(1,69)	1:8:A:MET:HE3	1:8:A:MET:HB2	18	0.25
(1,69)	1:8:A:MET:HE3	1:8:A:MET:HB3	18	0.25
(1,1185)	1:113:B:HIS:HD2	1:127:B:ILE:HB	10	0.24
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD11	22	0.24
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD12	22	0.24
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD13	22	0.24
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD21	22	0.24
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD22	22	0.24
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD23	22	0.24
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD11	22	0.24
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD12	22	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD13	22	0.24
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD21	22	0.24
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD22	22	0.24
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD23	22	0.24
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD11	22	0.24
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD12	22	0.24
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD13	22	0.24
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD21	22	0.24
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD22	22	0.24
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD23	22	0.24
(1,251)	1:20:A:ALA:HB1	1:27:A:ILE:HG12	19	0.24
(1,251)	1:20:A:ALA:HB1	1:27:A:ILE:HG13	19	0.24
(1,251)	1:20:A:ALA:HB2	1:27:A:ILE:HG12	19	0.24
(1,251)	1:20:A:ALA:HB2	1:27:A:ILE:HG13	19	0.24
(1,251)	1:20:A:ALA:HB3	1:27:A:ILE:HG12	19	0.24
(1,251)	1:20:A:ALA:HB3	1:27:A:ILE:HG13	19	0.24
(1,1753)	1:149:B:LEU:HA	1:152:B:MET:HB2	3	0.23
(1,1753)	1:149:B:LEU:HA	1:152:B:MET:HB3	3	0.23
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG12	23	0.23
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG13	23	0.23
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG12	23	0.23
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG13	23	0.23
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG12	23	0.23
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG13	23	0.23
(1,1263)	1:118:B:ALA:HB1	1:119:B:LEU:HD11	17	0.23
(1,1263)	1:118:B:ALA:HB1	1:119:B:LEU:HD12	17	0.23
(1,1263)	1:118:B:ALA:HB1	1:119:B:LEU:HD13	17	0.23
(1,1263)	1:118:B:ALA:HB1	1:119:B:LEU:HD21	17	0.23
(1,1263)	1:118:B:ALA:HB1	1:119:B:LEU:HD22	17	0.23
(1,1263)	1:118:B:ALA:HB1	1:119:B:LEU:HD23	17	0.23
(1,1263)	1:118:B:ALA:HB2	1:119:B:LEU:HD11	17	0.23
(1,1263)	1:118:B:ALA:HB2	1:119:B:LEU:HD12	17	0.23
(1,1263)	1:118:B:ALA:HB2	1:119:B:LEU:HD13	17	0.23
(1,1263)	1:118:B:ALA:HB2	1:119:B:LEU:HD21	17	0.23
(1,1263)	1:118:B:ALA:HB2	1:119:B:LEU:HD22	17	0.23
(1,1263)	1:118:B:ALA:HB2	1:119:B:LEU:HD23	17	0.23
(1,1263)	1:118:B:ALA:HB3	1:119:B:LEU:HD11	17	0.23
(1,1263)	1:118:B:ALA:HB3	1:119:B:LEU:HD12	17	0.23
(1,1263)	1:118:B:ALA:HB3	1:119:B:LEU:HD13	17	0.23
(1,1263)	1:118:B:ALA:HB3	1:119:B:LEU:HD21	17	0.23
(1,1263)	1:118:B:ALA:HB3	1:119:B:LEU:HD22	17	0.23
(1,1263)	1:118:B:ALA:HB3	1:119:B:LEU:HD23	17	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1185)	1:113:B:HIS:HD2	1:127:B:ILE:HB	5	0.23
(1,540)	1:35:A:LEU:HG	1:35:A:LEU:H	15	0.23
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	18	0.22
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	18	0.22
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	18	0.22
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	18	0.22
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	18	0.22
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	18	0.22
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	18	0.22
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	18	0.22
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	18	0.22
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	24	0.22
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	24	0.22
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	24	0.22
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	24	0.22
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	24	0.22
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	24	0.22
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	24	0.22
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	24	0.22
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	24	0.22
(1,1594)	1:135:B:LEU:HG	1:135:B:LEU:H	8	0.22
(1,544)	1:35:A:LEU:HG	1:36:A:PHE:H	15	0.22
(1,251)	1:20:A:ALA:HB1	1:27:A:ILE:HG12	15	0.22
(1,251)	1:20:A:ALA:HB1	1:27:A:ILE:HG13	15	0.22
(1,251)	1:20:A:ALA:HB2	1:27:A:ILE:HG12	15	0.22
(1,251)	1:20:A:ALA:HB2	1:27:A:ILE:HG13	15	0.22
(1,251)	1:20:A:ALA:HB3	1:27:A:ILE:HG12	15	0.22
(1,251)	1:20:A:ALA:HB3	1:27:A:ILE:HG13	15	0.22
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD11	4	0.22
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD12	4	0.22
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD13	4	0.22
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD21	4	0.22
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD22	4	0.22
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD23	4	0.22
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD11	4	0.22
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD12	4	0.22
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD13	4	0.22
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD21	4	0.22
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD22	4	0.22
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD23	4	0.22
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD11	4	0.22
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD12	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD13	4	0.22
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD21	4	0.22
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD22	4	0.22
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD23	4	0.22
(1,2073)	1:128:B:LYS:HG2	1:6:A:ILE:HG12	2	0.21
(1,2073)	1:128:B:LYS:HG2	1:6:A:ILE:HG13	2	0.21
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG12	13	0.21
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG13	13	0.21
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG12	13	0.21
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG13	13	0.21
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG12	13	0.21
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG13	13	0.21
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG12	24	0.21
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG13	24	0.21
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG12	24	0.21
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG13	24	0.21
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG12	24	0.21
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG13	24	0.21
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	15	0.21
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	15	0.21
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	15	0.21
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	15	0.21
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	15	0.21
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	15	0.21
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	15	0.21
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	15	0.21
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	15	0.21
(1,636)	1:45:A:ALA:HB3	1:46:A:TRP:HZ2	12	0.21
(1,2073)	1:128:B:LYS:HG2	1:6:A:ILE:HG21	24	0.2
(1,2073)	1:128:B:LYS:HG2	1:6:A:ILE:HG22	24	0.2
(1,2073)	1:128:B:LYS:HG2	1:6:A:ILE:HG23	24	0.2
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	22	0.2
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	22	0.2
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	22	0.2
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	22	0.2
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	22	0.2
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	22	0.2
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	22	0.2
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	22	0.2
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	22	0.2
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	23	0.2
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	23	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	23	0.2
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	23	0.2
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	23	0.2
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	23	0.2
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	23	0.2
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	23	0.2
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	23	0.2
(1,1879)	1:173:B:ILE:HD11	1:173:B:ILE:HA	10	0.2
(1,1879)	1:173:B:ILE:HD12	1:173:B:ILE:HA	10	0.2
(1,1879)	1:173:B:ILE:HD13	1:173:B:ILE:HA	10	0.2
(1,1248)	1:117:B:LYS:HD2	1:117:B:LYS:H	5	0.2
(1,1248)	1:117:B:LYS:HD3	1:117:B:LYS:H	5	0.2
(1,636)	1:45:A:ALA:HB1	1:46:A:TRP:HZ2	17	0.2
(1,1741)	1:148:B:GLU:HA	1:151:B:THR:HA	3	0.19
(1,1690)	1:145:B:ALA:HB1	1:146:B:TRP:HZ2	19	0.19
(1,971)	1:8:A:MET:HE1	1:136:B:PHE:HD1	23	0.19
(1,971)	1:8:A:MET:HE1	1:136:B:PHE:HD2	23	0.19
(1,971)	1:8:A:MET:HE2	1:136:B:PHE:HD1	23	0.19
(1,971)	1:8:A:MET:HE2	1:136:B:PHE:HD2	23	0.19
(1,971)	1:8:A:MET:HE3	1:136:B:PHE:HD1	23	0.19
(1,971)	1:8:A:MET:HE3	1:136:B:PHE:HD2	23	0.19
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	4	0.19
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	4	0.19
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	4	0.19
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	4	0.19
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	18	0.19
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	18	0.19
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	18	0.19
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	18	0.19
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	24	0.19
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	24	0.19
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	24	0.19
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	24	0.19
(1,378)	1:27:A:ILE:HG21	1:30:A:TYR:HD1	13	0.19
(1,378)	1:27:A:ILE:HG21	1:30:A:TYR:HD2	13	0.19
(1,378)	1:27:A:ILE:HG22	1:30:A:TYR:HD1	13	0.19
(1,378)	1:27:A:ILE:HG22	1:30:A:TYR:HD2	13	0.19
(1,378)	1:27:A:ILE:HG23	1:30:A:TYR:HD1	13	0.19
(1,378)	1:27:A:ILE:HG23	1:30:A:TYR:HD2	13	0.19
(1,251)	1:20:A:ALA:HB1	1:27:A:ILE:HG12	13	0.19
(1,251)	1:20:A:ALA:HB1	1:27:A:ILE:HG13	13	0.19
(1,251)	1:20:A:ALA:HB2	1:27:A:ILE:HG12	13	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,251)	1:20:A:ALA:HB2	1:27:A:ILE:HG13	13	0.19
(1,251)	1:20:A:ALA:HB3	1:27:A:ILE:HG12	13	0.19
(1,251)	1:20:A:ALA:HB3	1:27:A:ILE:HG13	13	0.19
(1,201)	1:17:A:LYS:H	1:14:A:GLN:H	23	0.19
(1,131)	1:13:A:HIS:HD2	1:27:A:ILE:HB	19	0.19
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	20	0.18
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	20	0.18
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	20	0.18
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	20	0.18
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	20	0.18
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	20	0.18
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	20	0.18
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	20	0.18
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	20	0.18
(1,1649)	1:141:B:ASP:H	1:140:B:ALA:HB1	3	0.18
(1,1649)	1:141:B:ASP:H	1:140:B:ALA:HB2	3	0.18
(1,1649)	1:141:B:ASP:H	1:140:B:ALA:HB3	3	0.18
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	8	0.18
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	8	0.18
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	8	0.18
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	8	0.18
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	17	0.18
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	17	0.18
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	17	0.18
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	17	0.18
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	21	0.18
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	21	0.18
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	21	0.18
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	21	0.18
(1,1276)	1:119:B:LEU:HA	1:119:B:LEU:HG	17	0.18
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	6	0.18
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	6	0.18
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	6	0.18
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	6	0.18
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	6	0.18
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	6	0.18
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	6	0.18
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	6	0.18
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	6	0.18
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	7	0.18
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	7	0.18
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	7	0.18
(1,280)	1:22:A:LEU:HA	1:21:A:ALA:H	15	0.18
(1,280)	1:22:A:LEU:HA	1:21:A:ALA:H	22	0.18
(1,131)	1:13:A:HIS:HD2	1:27:A:ILE:HB	13	0.18
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	2	0.17
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	2	0.17
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	2	0.17
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	2	0.17
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	2	0.17
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	2	0.17
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	2	0.17
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	2	0.17
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	2	0.17
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	12	0.17
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	12	0.17
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	12	0.17
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	12	0.17
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	12	0.17
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	12	0.17
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	12	0.17
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	12	0.17
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	12	0.17
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	21	0.17
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	21	0.17
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	21	0.17
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	21	0.17
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	21	0.17
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	21	0.17
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	21	0.17
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	21	0.17
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	21	0.17
(1,1255)	1:117:B:LYS:H	1:114:B:GLN:H	5	0.17
(1,1255)	1:117:B:LYS:H	1:114:B:GLN:H	10	0.17
(1,1185)	1:113:B:HIS:HD2	1:127:B:ILE:HB	12	0.17
(1,1123)	1:108:B:MET:HE1	1:108:B:MET:HB2	2	0.17
(1,1123)	1:108:B:MET:HE1	1:108:B:MET:HB3	2	0.17
(1,1123)	1:108:B:MET:HE2	1:108:B:MET:HB2	2	0.17
(1,1123)	1:108:B:MET:HE2	1:108:B:MET:HB3	2	0.17
(1,1123)	1:108:B:MET:HE3	1:108:B:MET:HB2	2	0.17
(1,1123)	1:108:B:MET:HE3	1:108:B:MET:HB3	2	0.17
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	19	0.17
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	19	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	19	0.17
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	19	0.17
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	19	0.17
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	19	0.17
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	19	0.17
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	19	0.17
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	19	0.17
(1,968)	1:8:A:MET:HE1	1:104:B:LEU:H	23	0.17
(1,968)	1:8:A:MET:HE2	1:104:B:LEU:H	23	0.17
(1,968)	1:8:A:MET:HE3	1:104:B:LEU:H	23	0.17
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD11	7	0.17
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD12	7	0.17
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD13	7	0.17
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD21	7	0.17
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD22	7	0.17
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD23	7	0.17
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD11	8	0.17
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD12	8	0.17
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD13	8	0.17
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD21	8	0.17
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD22	8	0.17
(1,738)	1:53:A:LEU:H	1:53:A:LEU:HD23	8	0.17
(1,474)	1:32:A:LEU:HA	1:31:A:ALA:H	13	0.17
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	5	0.17
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	5	0.17
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	5	0.17
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	5	0.17
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	14	0.17
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	14	0.17
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	14	0.17
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	14	0.17
(1,362)	1:27:A:ILE:HD11	1:17:A:LYS:HG2	18	0.17
(1,362)	1:27:A:ILE:HD11	1:17:A:LYS:HG3	18	0.17
(1,362)	1:27:A:ILE:HD12	1:17:A:LYS:HG2	18	0.17
(1,362)	1:27:A:ILE:HD12	1:17:A:LYS:HG3	18	0.17
(1,362)	1:27:A:ILE:HD13	1:17:A:LYS:HG2	18	0.17
(1,362)	1:27:A:ILE:HD13	1:17:A:LYS:HG3	18	0.17
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD11	15	0.17
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD12	15	0.17
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD13	15	0.17
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD21	15	0.17
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD22	15	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,273)	1:21:A:ALA:HB1	1:22:A:LEU:HD23	15	0.17
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD11	15	0.17
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD12	15	0.17
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD13	15	0.17
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD21	15	0.17
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD22	15	0.17
(1,273)	1:21:A:ALA:HB2	1:22:A:LEU:HD23	15	0.17
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD11	15	0.17
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD12	15	0.17
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD13	15	0.17
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD21	15	0.17
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD22	15	0.17
(1,273)	1:21:A:ALA:HB3	1:22:A:LEU:HD23	15	0.17
(1,251)	1:20:A:ALA:HB1	1:27:A:ILE:HG12	23	0.17
(1,251)	1:20:A:ALA:HB1	1:27:A:ILE:HG13	23	0.17
(1,251)	1:20:A:ALA:HB2	1:27:A:ILE:HG12	23	0.17
(1,251)	1:20:A:ALA:HB2	1:27:A:ILE:HG13	23	0.17
(1,251)	1:20:A:ALA:HB3	1:27:A:ILE:HG12	23	0.17
(1,251)	1:20:A:ALA:HB3	1:27:A:ILE:HG13	23	0.17
(1,222)	1:19:A:LEU:HA	1:19:A:LEU:HG	14	0.17
(1,222)	1:19:A:LEU:HA	1:19:A:LEU:HG	15	0.17
(1,2073)	1:128:B:LYS:HG2	1:6:A:ILE:HG12	11	0.16
(1,2073)	1:128:B:LYS:HG2	1:6:A:ILE:HG13	11	0.16
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	4	0.16
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	4	0.16
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	4	0.16
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	4	0.16
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	4	0.16
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	4	0.16
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	4	0.16
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	4	0.16
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	4	0.16
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	14	0.16
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	14	0.16
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	14	0.16
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	14	0.16
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	14	0.16
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	14	0.16
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	14	0.16
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	14	0.16
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	14	0.16
(1,1572)	1:134:B:ARG:HA	1:136:B:PHE:HB2	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1572)	1:134:B:ARG:HA	1:136:B:PHE:HB3	8	0.16
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	3	0.16
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	3	0.16
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	3	0.16
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	3	0.16
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	16	0.16
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	16	0.16
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	16	0.16
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	16	0.16
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	23	0.16
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	23	0.16
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	23	0.16
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	23	0.16
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG12	3	0.16
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG13	3	0.16
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG12	3	0.16
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG13	3	0.16
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG12	3	0.16
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG13	3	0.16
(1,1250)	1:117:B:LYS:HD2	1:118:B:ALA:H	5	0.16
(1,1250)	1:117:B:LYS:HD3	1:118:B:ALA:H	5	0.16
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	4	0.16
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	4	0.16
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	4	0.16
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	4	0.16
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	4	0.16
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	4	0.16
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	4	0.16
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	4	0.16
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	4	0.16
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	17	0.16
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	17	0.16
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	17	0.16
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	17	0.16
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	17	0.16
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	17	0.16
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	17	0.16
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	17	0.16
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	17	0.16
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	18	0.16
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	18	0.16
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	18	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	18	0.16
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	18	0.16
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	18	0.16
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	18	0.16
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	18	0.16
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	18	0.16
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	22	0.16
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	22	0.16
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	22	0.16
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	22	0.16
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	22	0.16
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	22	0.16
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	22	0.16
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	22	0.16
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	22	0.16
(1,474)	1:32:A:LEU:HA	1:31:A:ALA:H	11	0.16
(1,251)	1:20:A:ALA:HB1	1:27:A:ILE:HG12	2	0.16
(1,251)	1:20:A:ALA:HB1	1:27:A:ILE:HG13	2	0.16
(1,251)	1:20:A:ALA:HB2	1:27:A:ILE:HG12	2	0.16
(1,251)	1:20:A:ALA:HB2	1:27:A:ILE:HG13	2	0.16
(1,251)	1:20:A:ALA:HB3	1:27:A:ILE:HG12	2	0.16
(1,251)	1:20:A:ALA:HB3	1:27:A:ILE:HG13	2	0.16
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD11	13	0.16
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD12	13	0.16
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD13	13	0.16
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD21	13	0.16
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD22	13	0.16
(1,209)	1:18:A:ALA:HB1	1:19:A:LEU:HD23	13	0.16
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD11	13	0.16
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD12	13	0.16
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD13	13	0.16
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD21	13	0.16
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD22	13	0.16
(1,209)	1:18:A:ALA:HB2	1:19:A:LEU:HD23	13	0.16
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD11	13	0.16
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD12	13	0.16
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD13	13	0.16
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD21	13	0.16
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD22	13	0.16
(1,209)	1:18:A:ALA:HB3	1:19:A:LEU:HD23	13	0.16
(1,201)	1:17:A:LYS:H	1:14:A:GLN:H	13	0.16
(1,69)	1:8:A:MET:HE1	1:8:A:MET:HB2	23	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:8:A:MET:HE1	1:8:A:MET:HB3	23	0.16
(1,69)	1:8:A:MET:HE2	1:8:A:MET:HB2	23	0.16
(1,69)	1:8:A:MET:HE2	1:8:A:MET:HB3	23	0.16
(1,69)	1:8:A:MET:HE3	1:8:A:MET:HB2	23	0.16
(1,69)	1:8:A:MET:HE3	1:8:A:MET:HB3	23	0.16
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	7	0.15
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	7	0.15
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	7	0.15
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	7	0.15
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	7	0.15
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	7	0.15
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	7	0.15
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	7	0.15
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	7	0.15
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG21	17	0.15
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG22	17	0.15
(1,1968)	1:104:B:LEU:HB3	1:6:A:ILE:HG23	17	0.15
(1,1890)	1:173:B:ILE:H	1:173:B:ILE:HG12	10	0.15
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	7	0.15
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	7	0.15
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	7	0.15
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	7	0.15
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	11	0.15
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	11	0.15
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	11	0.15
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	11	0.15
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	24	0.15
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	24	0.15
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	24	0.15
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	24	0.15
(1,1339)	1:122:B:LEU:HA	1:122:B:LEU:HG	2	0.15
(1,1339)	1:122:B:LEU:HA	1:122:B:LEU:HG	13	0.15
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG12	4	0.15
(1,1305)	1:120:B:ALA:HB1	1:127:B:ILE:HG13	4	0.15
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG12	4	0.15
(1,1305)	1:120:B:ALA:HB2	1:127:B:ILE:HG13	4	0.15
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG12	4	0.15
(1,1305)	1:120:B:ALA:HB3	1:127:B:ILE:HG13	4	0.15
(1,1255)	1:117:B:LYS:H	1:114:B:GLN:H	23	0.15
(1,1255)	1:117:B:LYS:H	1:114:B:GLN:H	24	0.15
(1,1220)	1:116:B:LEU:HB2	1:117:B:LYS:H	24	0.15
(1,1220)	1:116:B:LEU:HB3	1:117:B:LYS:H	24	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	11	0.15
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	11	0.15
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	11	0.15
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	11	0.15
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	11	0.15
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	11	0.15
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	11	0.15
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	11	0.15
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	11	0.15
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	12	0.15
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	12	0.15
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	12	0.15
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	12	0.15
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	12	0.15
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	12	0.15
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	12	0.15
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	12	0.15
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	12	0.15
(1,474)	1:32:A:LEU:HA	1:31:A:ALA:H	4	0.15
(1,474)	1:32:A:LEU:HA	1:31:A:ALA:H	10	0.15
(1,474)	1:32:A:LEU:HA	1:31:A:ALA:H	15	0.15
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	10	0.15
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	10	0.15
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	10	0.15
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	10	0.15
(1,285)	1:22:A:LEU:HA	1:22:A:LEU:HG	14	0.15
(1,251)	1:20:A:ALA:HB1	1:27:A:ILE:HG12	5	0.15
(1,251)	1:20:A:ALA:HB1	1:27:A:ILE:HG13	5	0.15
(1,251)	1:20:A:ALA:HB2	1:27:A:ILE:HG12	5	0.15
(1,251)	1:20:A:ALA:HB2	1:27:A:ILE:HG13	5	0.15
(1,251)	1:20:A:ALA:HB3	1:27:A:ILE:HG12	5	0.15
(1,251)	1:20:A:ALA:HB3	1:27:A:ILE:HG13	5	0.15
(1,201)	1:17:A:LYS:H	1:14:A:GLN:H	15	0.15
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	9	0.14
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	9	0.14
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	9	0.14
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	9	0.14
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	9	0.14
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	9	0.14
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	9	0.14
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	9	0.14
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	11	0.14
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	11	0.14
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	11	0.14
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	11	0.14
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	11	0.14
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	11	0.14
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	11	0.14
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	11	0.14
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	11	0.14
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	19	0.14
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	19	0.14
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	19	0.14
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	19	0.14
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	19	0.14
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	19	0.14
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	19	0.14
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	19	0.14
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	19	0.14
(1,1530)	1:132:B:LEU:HA	1:132:B:LEU:HD11	7	0.14
(1,1530)	1:132:B:LEU:HA	1:132:B:LEU:HD12	7	0.14
(1,1530)	1:132:B:LEU:HA	1:132:B:LEU:HD13	7	0.14
(1,1530)	1:132:B:LEU:HA	1:132:B:LEU:HD21	7	0.14
(1,1530)	1:132:B:LEU:HA	1:132:B:LEU:HD22	7	0.14
(1,1530)	1:132:B:LEU:HA	1:132:B:LEU:HD23	7	0.14
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	18	0.14
(1,1507)	1:131:B:ALA:HA	1:116:B:LEU:HB2	5	0.14
(1,1507)	1:131:B:ALA:HA	1:116:B:LEU:HB3	5	0.14
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	10	0.14
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	10	0.14
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	10	0.14
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	10	0.14
(1,1415)	1:127:B:ILE:HD11	1:117:B:LYS:HA	5	0.14
(1,1415)	1:127:B:ILE:HD12	1:117:B:LYS:HA	5	0.14
(1,1415)	1:127:B:ILE:HD13	1:117:B:LYS:HA	5	0.14
(1,1415)	1:127:B:ILE:HD11	1:117:B:LYS:HA	10	0.14
(1,1415)	1:127:B:ILE:HD12	1:117:B:LYS:HA	10	0.14
(1,1415)	1:127:B:ILE:HD13	1:117:B:LYS:HA	10	0.14
(1,1339)	1:122:B:LEU:HA	1:122:B:LEU:HG	4	0.14
(1,1255)	1:117:B:LYS:H	1:114:B:GLN:H	11	0.14
(1,1220)	1:116:B:LEU:HB2	1:117:B:LYS:H	11	0.14
(1,1220)	1:116:B:LEU:HB3	1:117:B:LYS:H	11	0.14
(1,1120)	1:108:B:MET:HG2	1:106:B:ILE:HG12	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1120)	1:108:B:MET:HG2	1:106:B:ILE:HG13	2	0.14
(1,1120)	1:108:B:MET:HG3	1:106:B:ILE:HG12	2	0.14
(1,1120)	1:108:B:MET:HG3	1:106:B:ILE:HG13	2	0.14
(1,1119)	1:108:B:MET:HG2	1:106:B:ILE:HD11	3	0.14
(1,1119)	1:108:B:MET:HG2	1:106:B:ILE:HD12	3	0.14
(1,1119)	1:108:B:MET:HG2	1:106:B:ILE:HD13	3	0.14
(1,1119)	1:108:B:MET:HG3	1:106:B:ILE:HD11	3	0.14
(1,1119)	1:108:B:MET:HG3	1:106:B:ILE:HD12	3	0.14
(1,1119)	1:108:B:MET:HG3	1:106:B:ILE:HD13	3	0.14
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	5	0.14
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	5	0.14
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	5	0.14
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	5	0.14
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	5	0.14
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	5	0.14
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	5	0.14
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	5	0.14
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	5	0.14
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	20	0.14
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	20	0.14
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	20	0.14
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	20	0.14
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	20	0.14
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	20	0.14
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	20	0.14
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	20	0.14
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	20	0.14
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	21	0.14
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	21	0.14
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	21	0.14
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	21	0.14
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	21	0.14
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	21	0.14
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	21	0.14
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	21	0.14
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	21	0.14
(1,960)	1:6:A:ILE:HB	1:106:B:ILE:HG21	20	0.14
(1,960)	1:6:A:ILE:HB	1:106:B:ILE:HG22	20	0.14
(1,960)	1:6:A:ILE:HB	1:106:B:ILE:HG23	20	0.14
(1,812)	1:70:A:VAL:H	1:70:A:VAL:HB	19	0.14
(1,687)	1:48:A:GLU:HA	1:51:A:THR:HA	22	0.14
(1,637)	1:45:A:ALA:HB1	1:46:A:TRP:HD1	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,637)	1:45:A:ALA:HB2	1:46:A:TRP:HD1	9	0.14
(1,637)	1:45:A:ALA:HB3	1:46:A:TRP:HD1	9	0.14
(1,547)	1:35:A:LEU:H	1:36:A:PHE:HA	15	0.14
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	8	0.14
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	8	0.14
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	8	0.14
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	8	0.14
(1,285)	1:22:A:LEU:HA	1:22:A:LEU:HG	5	0.14
(1,201)	1:17:A:LYS:H	1:14:A:GLN:H	19	0.14
(1,201)	1:17:A:LYS:H	1:14:A:GLN:H	20	0.14
(1,166)	1:16:A:LEU:HB2	1:17:A:LYS:H	20	0.14
(1,166)	1:16:A:LEU:HB3	1:17:A:LYS:H	20	0.14
(1,69)	1:8:A:MET:HE1	1:8:A:MET:HB2	9	0.14
(1,69)	1:8:A:MET:HE1	1:8:A:MET:HB3	9	0.14
(1,69)	1:8:A:MET:HE2	1:8:A:MET:HB2	9	0.14
(1,69)	1:8:A:MET:HE2	1:8:A:MET:HB3	9	0.14
(1,69)	1:8:A:MET:HE3	1:8:A:MET:HB2	9	0.14
(1,69)	1:8:A:MET:HE3	1:8:A:MET:HB3	9	0.14
(1,2079)	1:131:B:ALA:HA	1:35:A:LEU:H	22	0.13
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	3	0.13
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	3	0.13
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	3	0.13
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	3	0.13
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	3	0.13
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	3	0.13
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	3	0.13
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	3	0.13
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	3	0.13
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	5	0.13
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	5	0.13
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	5	0.13
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	5	0.13
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	5	0.13
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	5	0.13
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	5	0.13
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	5	0.13
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	5	0.13
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	6	0.13
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	6	0.13
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	6	0.13
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	6	0.13
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	6	0.13
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	6	0.13
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	6	0.13
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	6	0.13
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	17	0.13
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	17	0.13
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	17	0.13
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	17	0.13
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	17	0.13
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	17	0.13
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	17	0.13
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	17	0.13
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	17	0.13
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG21	6	0.13
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG22	6	0.13
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG23	6	0.13
(1,1753)	1:149:B:LEU:HA	1:152:B:MET:HB2	11	0.13
(1,1753)	1:149:B:LEU:HA	1:152:B:MET:HB3	11	0.13
(1,1741)	1:148:B:GLU:HA	1:151:B:THR:HA	11	0.13
(1,1649)	1:141:B:ASP:H	1:140:B:ALA:HB1	13	0.13
(1,1649)	1:141:B:ASP:H	1:140:B:ALA:HB2	13	0.13
(1,1649)	1:141:B:ASP:H	1:140:B:ALA:HB3	13	0.13
(1,1643)	1:140:B:ALA:H	1:140:B:ALA:HA	3	0.13
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	2	0.13
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	2	0.13
(1,1601)	1:135:B:LEU:H	1:136:B:PHE:HA	8	0.13
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	6	0.13
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	15	0.13
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	5	0.13
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	5	0.13
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	5	0.13
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	5	0.13
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	6	0.13
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	6	0.13
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	6	0.13
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	6	0.13
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	20	0.13
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	20	0.13
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	20	0.13
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	20	0.13
(1,1315)	1:120:B:ALA:HA	1:131:B:ALA:H	9	0.13
(1,1255)	1:117:B:LYS:H	1:114:B:GLN:H	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1255)	1:117:B:LYS:H	1:114:B:GLN:H	21	0.13
(1,1204)	1:114:B:GLN:H	1:115:B:SER:HA	10	0.13
(1,1123)	1:108:B:MET:HE1	1:108:B:MET:HB2	12	0.13
(1,1123)	1:108:B:MET:HE1	1:108:B:MET:HB3	12	0.13
(1,1123)	1:108:B:MET:HE2	1:108:B:MET:HB2	12	0.13
(1,1123)	1:108:B:MET:HE2	1:108:B:MET:HB3	12	0.13
(1,1123)	1:108:B:MET:HE3	1:108:B:MET:HB2	12	0.13
(1,1123)	1:108:B:MET:HE3	1:108:B:MET:HB3	12	0.13
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	1	0.13
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	1	0.13
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	1	0.13
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	1	0.13
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	1	0.13
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	1	0.13
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	1	0.13
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	1	0.13
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	1	0.13
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	2	0.13
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	2	0.13
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	2	0.13
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	2	0.13
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	2	0.13
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	2	0.13
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	2	0.13
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	2	0.13
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	2	0.13
(1,971)	1:8:A:MET:HE1	1:136:B:PHE:HD1	16	0.13
(1,971)	1:8:A:MET:HE1	1:136:B:PHE:HD2	16	0.13
(1,971)	1:8:A:MET:HE2	1:136:B:PHE:HD1	16	0.13
(1,971)	1:8:A:MET:HE2	1:136:B:PHE:HD2	16	0.13
(1,971)	1:8:A:MET:HE3	1:136:B:PHE:HD1	16	0.13
(1,971)	1:8:A:MET:HE3	1:136:B:PHE:HD2	16	0.13
(1,968)	1:8:A:MET:HE1	1:104:B:LEU:H	18	0.13
(1,968)	1:8:A:MET:HE2	1:104:B:LEU:H	18	0.13
(1,968)	1:8:A:MET:HE3	1:104:B:LEU:H	18	0.13
(1,643)	1:46:A:TRP:HB2	1:46:A:TRP:HH2	5	0.13
(1,643)	1:46:A:TRP:HB3	1:46:A:TRP:HH2	5	0.13
(1,637)	1:45:A:ALA:HB1	1:46:A:TRP:HD1	18	0.13
(1,637)	1:45:A:ALA:HB2	1:46:A:TRP:HD1	18	0.13
(1,637)	1:45:A:ALA:HB3	1:46:A:TRP:HD1	18	0.13
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	10	0.13
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	21	0.13
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	21	0.13
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	1	0.13
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	1	0.13
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	1	0.13
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	1	0.13
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	13	0.13
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	13	0.13
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	13	0.13
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	13	0.13
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	16	0.13
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	16	0.13
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	16	0.13
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	16	0.13
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	19	0.13
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	19	0.13
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	19	0.13
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	19	0.13
(1,365)	1:27:A:ILE:HG21	1:17:A:LYS:HA	15	0.13
(1,365)	1:27:A:ILE:HG22	1:17:A:LYS:HA	15	0.13
(1,365)	1:27:A:ILE:HG23	1:17:A:LYS:HA	15	0.13
(1,365)	1:27:A:ILE:HG21	1:17:A:LYS:HA	19	0.13
(1,365)	1:27:A:ILE:HG22	1:17:A:LYS:HA	19	0.13
(1,365)	1:27:A:ILE:HG23	1:17:A:LYS:HA	19	0.13
(1,251)	1:20:A:ALA:HB1	1:27:A:ILE:HG12	3	0.13
(1,251)	1:20:A:ALA:HB1	1:27:A:ILE:HG13	3	0.13
(1,251)	1:20:A:ALA:HB2	1:27:A:ILE:HG12	3	0.13
(1,251)	1:20:A:ALA:HB2	1:27:A:ILE:HG13	3	0.13
(1,251)	1:20:A:ALA:HB3	1:27:A:ILE:HG12	3	0.13
(1,251)	1:20:A:ALA:HB3	1:27:A:ILE:HG13	3	0.13
(1,222)	1:19:A:LEU:HA	1:19:A:LEU:HG	4	0.13
(1,222)	1:19:A:LEU:HA	1:19:A:LEU:HG	13	0.13
(1,201)	1:17:A:LYS:H	1:14:A:GLN:H	3	0.13
(1,196)	1:17:A:LYS:HD2	1:18:A:ALA:H	15	0.13
(1,196)	1:17:A:LYS:HD3	1:18:A:ALA:H	15	0.13
(1,196)	1:17:A:LYS:HD2	1:18:A:ALA:H	23	0.13
(1,196)	1:17:A:LYS:HD3	1:18:A:ALA:H	23	0.13
(1,69)	1:8:A:MET:HE1	1:8:A:MET:HB2	20	0.13
(1,69)	1:8:A:MET:HE1	1:8:A:MET:HB3	20	0.13
(1,69)	1:8:A:MET:HE2	1:8:A:MET:HB2	20	0.13
(1,69)	1:8:A:MET:HE2	1:8:A:MET:HB3	20	0.13
(1,69)	1:8:A:MET:HE3	1:8:A:MET:HB2	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:8:A:MET:HE3	1:8:A:MET:HB3	20	0.13
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	8	0.12
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	8	0.12
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	8	0.12
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	8	0.12
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	8	0.12
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	8	0.12
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	8	0.12
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	8	0.12
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	8	0.12
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	10	0.12
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	10	0.12
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	10	0.12
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	10	0.12
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	10	0.12
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	10	0.12
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	10	0.12
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	10	0.12
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	10	0.12
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	13	0.12
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	13	0.12
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	13	0.12
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	13	0.12
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	13	0.12
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	13	0.12
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	13	0.12
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	13	0.12
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	13	0.12
(1,2025)	1:108:B:MET:HE1	1:36:A:PHE:HD1	11	0.12
(1,2025)	1:108:B:MET:HE1	1:36:A:PHE:HD2	11	0.12
(1,2025)	1:108:B:MET:HE2	1:36:A:PHE:HD1	11	0.12
(1,2025)	1:108:B:MET:HE2	1:36:A:PHE:HD2	11	0.12
(1,2025)	1:108:B:MET:HE3	1:36:A:PHE:HD1	11	0.12
(1,2025)	1:108:B:MET:HE3	1:36:A:PHE:HD2	11	0.12
(1,2025)	1:108:B:MET:HE1	1:36:A:PHE:HD1	15	0.12
(1,2025)	1:108:B:MET:HE1	1:36:A:PHE:HD2	15	0.12
(1,2025)	1:108:B:MET:HE2	1:36:A:PHE:HD1	15	0.12
(1,2025)	1:108:B:MET:HE2	1:36:A:PHE:HD2	15	0.12
(1,2025)	1:108:B:MET:HE3	1:36:A:PHE:HD1	15	0.12
(1,2025)	1:108:B:MET:HE3	1:36:A:PHE:HD2	15	0.12
(1,2006)	1:106:B:ILE:HD11	1:4:A:LEU:H	23	0.12
(1,2006)	1:106:B:ILE:HD12	1:4:A:LEU:H	23	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2006)	1:106:B:ILE:HD13	1:4:A:LEU:H	23	0.12
(1,1818)	1:161:B:LEU:H	1:161:B:LEU:HA	3	0.12
(1,1691)	1:145:B:ALA:HB1	1:146:B:TRP:HD1	17	0.12
(1,1691)	1:145:B:ALA:HB2	1:146:B:TRP:HD1	17	0.12
(1,1691)	1:145:B:ALA:HB3	1:146:B:TRP:HD1	17	0.12
(1,1665)	1:143:B:ASP:H	1:143:B:ASP:HB2	3	0.12
(1,1665)	1:143:B:ASP:H	1:143:B:ASP:HB3	3	0.12
(1,1643)	1:140:B:ALA:H	1:140:B:ALA:HA	11	0.12
(1,1643)	1:140:B:ALA:H	1:140:B:ALA:HA	18	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	1	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	1	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	3	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	3	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	5	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	5	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	6	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	6	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	7	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	7	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	8	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	8	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	9	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	9	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	11	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	11	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	12	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	12	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	13	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	13	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	14	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	14	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	15	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	15	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	16	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	16	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	17	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	17	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	18	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	18	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	19	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	19	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	20	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	21	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	21	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	22	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	22	0.12
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	24	0.12
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	24	0.12
(1,1601)	1:135:B:LEU:H	1:136:B:PHE:HA	13	0.12
(1,1583)	1:134:B:ARG:H	1:133:B:GLU:HA	23	0.12
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	14	0.12
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	20	0.12
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	21	0.12
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	1	0.12
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	1	0.12
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	1	0.12
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	1	0.12
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	2	0.12
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	2	0.12
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	2	0.12
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	2	0.12
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	12	0.12
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	12	0.12
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	12	0.12
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	12	0.12
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	13	0.12
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	13	0.12
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	13	0.12
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	13	0.12
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	15	0.12
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	15	0.12
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	15	0.12
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	15	0.12
(1,1419)	1:127:B:ILE:HG21	1:117:B:LYS:HA	11	0.12
(1,1419)	1:127:B:ILE:HG22	1:117:B:LYS:HA	11	0.12
(1,1419)	1:127:B:ILE:HG23	1:117:B:LYS:HA	11	0.12
(1,1255)	1:117:B:LYS:H	1:114:B:GLN:H	6	0.12
(1,1255)	1:117:B:LYS:H	1:114:B:GLN:H	15	0.12
(1,1220)	1:116:B:LEU:HB2	1:117:B:LYS:H	23	0.12
(1,1220)	1:116:B:LEU:HB3	1:117:B:LYS:H	23	0.12
(1,1123)	1:108:B:MET:HE1	1:108:B:MET:HB2	6	0.12
(1,1123)	1:108:B:MET:HE1	1:108:B:MET:HB3	6	0.12
(1,1123)	1:108:B:MET:HE2	1:108:B:MET:HB2	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1123)	1:108:B:MET:HE2	1:108:B:MET:HB3	6	0.12
(1,1123)	1:108:B:MET:HE3	1:108:B:MET:HB2	6	0.12
(1,1123)	1:108:B:MET:HE3	1:108:B:MET:HB3	6	0.12
(1,1123)	1:108:B:MET:HE1	1:108:B:MET:HB2	18	0.12
(1,1123)	1:108:B:MET:HE1	1:108:B:MET:HB3	18	0.12
(1,1123)	1:108:B:MET:HE2	1:108:B:MET:HB2	18	0.12
(1,1123)	1:108:B:MET:HE2	1:108:B:MET:HB3	18	0.12
(1,1123)	1:108:B:MET:HE3	1:108:B:MET:HB2	18	0.12
(1,1123)	1:108:B:MET:HE3	1:108:B:MET:HB3	18	0.12
(1,1118)	1:108:B:MET:HG2	1:106:B:ILE:HA	17	0.12
(1,1118)	1:108:B:MET:HG3	1:106:B:ILE:HA	17	0.12
(1,1025)	1:31:A:ALA:HA	1:135:B:LEU:H	2	0.12
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	9	0.12
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	9	0.12
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	9	0.12
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	9	0.12
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	9	0.12
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	9	0.12
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	9	0.12
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	9	0.12
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	9	0.12
(1,971)	1:8:A:MET:HE1	1:136:B:PHE:HD1	15	0.12
(1,971)	1:8:A:MET:HE1	1:136:B:PHE:HD2	15	0.12
(1,971)	1:8:A:MET:HE2	1:136:B:PHE:HD1	15	0.12
(1,971)	1:8:A:MET:HE2	1:136:B:PHE:HD2	15	0.12
(1,971)	1:8:A:MET:HE3	1:136:B:PHE:HD1	15	0.12
(1,971)	1:8:A:MET:HE3	1:136:B:PHE:HD2	15	0.12
(1,971)	1:8:A:MET:HE1	1:136:B:PHE:HD1	22	0.12
(1,971)	1:8:A:MET:HE1	1:136:B:PHE:HD2	22	0.12
(1,971)	1:8:A:MET:HE2	1:136:B:PHE:HD1	22	0.12
(1,971)	1:8:A:MET:HE2	1:136:B:PHE:HD2	22	0.12
(1,971)	1:8:A:MET:HE3	1:136:B:PHE:HD1	22	0.12
(1,971)	1:8:A:MET:HE3	1:136:B:PHE:HD2	22	0.12
(1,861)	1:77:A:GLU:H	1:77:A:GLU:HA	9	0.12
(1,796)	1:67:A:THR:H	1:67:A:THR:HA	3	0.12
(1,610)	1:43:A:ASP:H	1:43:A:ASP:HA	12	0.12
(1,595)	1:41:A:ASP:H	1:40:A:ALA:HB1	8	0.12
(1,595)	1:41:A:ASP:H	1:40:A:ALA:HB2	8	0.12
(1,595)	1:41:A:ASP:H	1:40:A:ALA:HB3	8	0.12
(1,587)	1:40:A:ALA:H	1:39:A:ASP:HA	6	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	1	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	3	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	3	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	4	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	4	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	5	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	5	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	6	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	6	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	7	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	7	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	8	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	8	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	9	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	9	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	11	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	11	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	12	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	12	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	13	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	13	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	14	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	14	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	15	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	15	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	16	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	16	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	17	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	17	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	18	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	18	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	19	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	19	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	20	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	20	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	22	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	22	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	23	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	23	0.12
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	24	0.12
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	24	0.12
(1,547)	1:35:A:LEU:H	1:36:A:PHE:HA	13	0.12
(1,474)	1:32:A:LEU:HA	1:31:A:ALA:H	24	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	2	0.12
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	2	0.12
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	2	0.12
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	2	0.12
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	3	0.12
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	3	0.12
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	3	0.12
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	3	0.12
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	6	0.12
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	6	0.12
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	6	0.12
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	6	0.12
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	12	0.12
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	12	0.12
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	12	0.12
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	12	0.12
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	20	0.12
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	20	0.12
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	20	0.12
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	20	0.12
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	21	0.12
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	21	0.12
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	21	0.12
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	21	0.12
(1,281)	1:22:A:LEU:HB2	1:21:A:ALA:H	15	0.12
(1,281)	1:22:A:LEU:HB3	1:21:A:ALA:H	15	0.12
(1,201)	1:17:A:LYS:H	1:14:A:GLN:H	18	0.12
(1,201)	1:17:A:LYS:H	1:14:A:GLN:H	21	0.12
(1,183)	1:17:A:LYS:HE2	1:13:A:HIS:HD2	23	0.12
(1,183)	1:17:A:LYS:HE3	1:13:A:HIS:HD2	23	0.12
(1,69)	1:8:A:MET:HE1	1:8:A:MET:HB2	4	0.12
(1,69)	1:8:A:MET:HE1	1:8:A:MET:HB3	4	0.12
(1,69)	1:8:A:MET:HE2	1:8:A:MET:HB2	4	0.12
(1,69)	1:8:A:MET:HE2	1:8:A:MET:HB3	4	0.12
(1,69)	1:8:A:MET:HE3	1:8:A:MET:HB2	4	0.12
(1,69)	1:8:A:MET:HE3	1:8:A:MET:HB3	4	0.12
(1,2079)	1:131:B:ALA:HA	1:35:A:LEU:H	10	0.11
(1,2079)	1:131:B:ALA:HA	1:35:A:LEU:H	18	0.11
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD11	16	0.11
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD12	16	0.11
(1,2038)	1:108:B:MET:HE1	1:27:A:ILE:HD13	16	0.11
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD11	16	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD12	16	0.11
(1,2038)	1:108:B:MET:HE2	1:27:A:ILE:HD13	16	0.11
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD11	16	0.11
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD12	16	0.11
(1,2038)	1:108:B:MET:HE3	1:27:A:ILE:HD13	16	0.11
(1,2025)	1:108:B:MET:HE1	1:36:A:PHE:HD1	13	0.11
(1,2025)	1:108:B:MET:HE1	1:36:A:PHE:HD2	13	0.11
(1,2025)	1:108:B:MET:HE2	1:36:A:PHE:HD1	13	0.11
(1,2025)	1:108:B:MET:HE2	1:36:A:PHE:HD2	13	0.11
(1,2025)	1:108:B:MET:HE3	1:36:A:PHE:HD1	13	0.11
(1,2025)	1:108:B:MET:HE3	1:36:A:PHE:HD2	13	0.11
(1,2025)	1:108:B:MET:HE1	1:36:A:PHE:HD1	20	0.11
(1,2025)	1:108:B:MET:HE1	1:36:A:PHE:HD2	20	0.11
(1,2025)	1:108:B:MET:HE2	1:36:A:PHE:HD1	20	0.11
(1,2025)	1:108:B:MET:HE2	1:36:A:PHE:HD2	20	0.11
(1,2025)	1:108:B:MET:HE3	1:36:A:PHE:HD1	20	0.11
(1,2025)	1:108:B:MET:HE3	1:36:A:PHE:HD2	20	0.11
(1,2025)	1:108:B:MET:HE1	1:36:A:PHE:HD1	24	0.11
(1,2025)	1:108:B:MET:HE1	1:36:A:PHE:HD2	24	0.11
(1,2025)	1:108:B:MET:HE2	1:36:A:PHE:HD1	24	0.11
(1,2025)	1:108:B:MET:HE2	1:36:A:PHE:HD2	24	0.11
(1,2025)	1:108:B:MET:HE3	1:36:A:PHE:HD1	24	0.11
(1,2025)	1:108:B:MET:HE3	1:36:A:PHE:HD2	24	0.11
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG21	2	0.11
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG22	2	0.11
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG23	2	0.11
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG21	4	0.11
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG22	4	0.11
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG23	4	0.11
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG21	13	0.11
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG22	13	0.11
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG23	13	0.11
(1,1973)	1:104:B:LEU:HG	1:5:A:THR:HG21	18	0.11
(1,1973)	1:104:B:LEU:HG	1:5:A:THR:HG22	18	0.11
(1,1973)	1:104:B:LEU:HG	1:5:A:THR:HG23	18	0.11
(1,1907)	1:176:B:GLU:H	1:176:B:GLU:HA	14	0.11
(1,1728)	1:147:B:GLN:H	1:146:B:TRP:HA	5	0.11
(1,1643)	1:140:B:ALA:H	1:140:B:ALA:HA	7	0.11
(1,1643)	1:140:B:ALA:H	1:140:B:ALA:HA	8	0.11
(1,1643)	1:140:B:ALA:H	1:140:B:ALA:HA	16	0.11
(1,1643)	1:140:B:ALA:H	1:140:B:ALA:HA	21	0.11
(1,1643)	1:140:B:ALA:H	1:140:B:ALA:HA	24	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	4	0.11
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	4	0.11
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	10	0.11
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	10	0.11
(1,1607)	1:136:B:PHE:HB2	1:136:B:PHE:HZ	23	0.11
(1,1607)	1:136:B:PHE:HB3	1:136:B:PHE:HZ	23	0.11
(1,1583)	1:134:B:ARG:H	1:133:B:GLU:HA	13	0.11
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	2	0.11
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	10	0.11
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	17	0.11
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	24	0.11
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	4	0.11
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	4	0.11
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	4	0.11
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	4	0.11
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	18	0.11
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	18	0.11
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	18	0.11
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	18	0.11
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	19	0.11
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	19	0.11
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	19	0.11
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	19	0.11
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	22	0.11
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	22	0.11
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	22	0.11
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	22	0.11
(1,1419)	1:127:B:ILE:HG21	1:117:B:LYS:HA	10	0.11
(1,1419)	1:127:B:ILE:HG22	1:117:B:LYS:HA	10	0.11
(1,1419)	1:127:B:ILE:HG23	1:117:B:LYS:HA	10	0.11
(1,1419)	1:127:B:ILE:HG21	1:117:B:LYS:HA	23	0.11
(1,1419)	1:127:B:ILE:HG22	1:117:B:LYS:HA	23	0.11
(1,1419)	1:127:B:ILE:HG23	1:117:B:LYS:HA	23	0.11
(1,1416)	1:127:B:ILE:HD11	1:117:B:LYS:HG2	10	0.11
(1,1416)	1:127:B:ILE:HD11	1:117:B:LYS:HG3	10	0.11
(1,1416)	1:127:B:ILE:HD12	1:117:B:LYS:HG2	10	0.11
(1,1416)	1:127:B:ILE:HD12	1:117:B:LYS:HG3	10	0.11
(1,1416)	1:127:B:ILE:HD13	1:117:B:LYS:HG2	10	0.11
(1,1416)	1:127:B:ILE:HD13	1:117:B:LYS:HG3	10	0.11
(1,1416)	1:127:B:ILE:HD11	1:117:B:LYS:HG2	12	0.11
(1,1416)	1:127:B:ILE:HD11	1:117:B:LYS:HG3	12	0.11
(1,1416)	1:127:B:ILE:HD12	1:117:B:LYS:HG2	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1416)	1:127:B:ILE:HD12	1:117:B:LYS:HG3	12	0.11
(1,1416)	1:127:B:ILE:HD13	1:117:B:LYS:HG2	12	0.11
(1,1416)	1:127:B:ILE:HD13	1:117:B:LYS:HG3	12	0.11
(1,1315)	1:120:B:ALA:HA	1:131:B:ALA:H	11	0.11
(1,1255)	1:117:B:LYS:H	1:114:B:GLN:H	12	0.11
(1,1255)	1:117:B:LYS:H	1:114:B:GLN:H	13	0.11
(1,1255)	1:117:B:LYS:H	1:114:B:GLN:H	19	0.11
(1,1255)	1:117:B:LYS:H	1:114:B:GLN:H	20	0.11
(1,1236)	1:117:B:LYS:HD2	1:113:B:HIS:HD2	5	0.11
(1,1236)	1:117:B:LYS:HD3	1:113:B:HIS:HD2	5	0.11
(1,1234)	1:116:B:LEU:H	1:119:B:LEU:HB2	17	0.11
(1,1234)	1:116:B:LEU:H	1:119:B:LEU:HB3	17	0.11
(1,1204)	1:114:B:GLN:H	1:115:B:SER:HA	2	0.11
(1,1123)	1:108:B:MET:HE1	1:108:B:MET:HB2	16	0.11
(1,1123)	1:108:B:MET:HE1	1:108:B:MET:HB3	16	0.11
(1,1123)	1:108:B:MET:HE2	1:108:B:MET:HB2	16	0.11
(1,1123)	1:108:B:MET:HE2	1:108:B:MET:HB3	16	0.11
(1,1123)	1:108:B:MET:HE3	1:108:B:MET:HB2	16	0.11
(1,1123)	1:108:B:MET:HE3	1:108:B:MET:HB3	16	0.11
(1,1120)	1:108:B:MET:HG2	1:106:B:ILE:HG12	6	0.11
(1,1120)	1:108:B:MET:HG2	1:106:B:ILE:HG13	6	0.11
(1,1120)	1:108:B:MET:HG3	1:106:B:ILE:HG12	6	0.11
(1,1120)	1:108:B:MET:HG3	1:106:B:ILE:HG13	6	0.11
(1,1025)	1:31:A:ALA:HA	1:135:B:LEU:H	17	0.11
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	24	0.11
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	24	0.11
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	24	0.11
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	24	0.11
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	24	0.11
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	24	0.11
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	24	0.11
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	24	0.11
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	24	0.11
(1,971)	1:8:A:MET:HE1	1:136:B:PHE:HD1	19	0.11
(1,971)	1:8:A:MET:HE1	1:136:B:PHE:HD2	19	0.11
(1,971)	1:8:A:MET:HE2	1:136:B:PHE:HD1	19	0.11
(1,971)	1:8:A:MET:HE2	1:136:B:PHE:HD2	19	0.11
(1,971)	1:8:A:MET:HE3	1:136:B:PHE:HD1	19	0.11
(1,971)	1:8:A:MET:HE3	1:136:B:PHE:HD2	19	0.11
(1,779)	1:64:A:LYS:HE2	1:64:A:LYS:HB2	19	0.11
(1,779)	1:64:A:LYS:HE2	1:64:A:LYS:HB3	19	0.11
(1,779)	1:64:A:LYS:HE3	1:64:A:LYS:HB2	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,779)	1:64:A:LYS:HE3	1:64:A:LYS:HB3	19	0.11
(1,769)	1:62:A:ALA:H	1:62:A:ALA:HA	18	0.11
(1,751)	1:58:A:ASN:H	1:58:A:ASN:HA	5	0.11
(1,610)	1:43:A:ASP:H	1:43:A:ASP:HA	17	0.11
(1,595)	1:41:A:ASP:H	1:40:A:ALA:HB1	15	0.11
(1,595)	1:41:A:ASP:H	1:40:A:ALA:HB2	15	0.11
(1,595)	1:41:A:ASP:H	1:40:A:ALA:HB3	15	0.11
(1,589)	1:40:A:ALA:H	1:40:A:ALA:HA	1	0.11
(1,589)	1:40:A:ALA:H	1:40:A:ALA:HA	19	0.11
(1,589)	1:40:A:ALA:H	1:40:A:ALA:HA	22	0.11
(1,589)	1:40:A:ALA:H	1:40:A:ALA:HA	24	0.11
(1,553)	1:36:A:PHE:HB2	1:36:A:PHE:HZ	2	0.11
(1,553)	1:36:A:PHE:HB3	1:36:A:PHE:HZ	2	0.11
(1,518)	1:34:A:ARG:HA	1:36:A:PHE:HB2	16	0.11
(1,518)	1:34:A:ARG:HA	1:36:A:PHE:HB3	16	0.11
(1,474)	1:32:A:LEU:HA	1:31:A:ALA:H	3	0.11
(1,474)	1:32:A:LEU:HA	1:31:A:ALA:H	5	0.11
(1,474)	1:32:A:LEU:HA	1:31:A:ALA:H	7	0.11
(1,474)	1:32:A:LEU:HA	1:31:A:ALA:H	12	0.11
(1,474)	1:32:A:LEU:HA	1:31:A:ALA:H	14	0.11
(1,463)	1:31:A:ALA:HA	1:32:A:LEU:HB2	11	0.11
(1,463)	1:31:A:ALA:HA	1:32:A:LEU:HB3	11	0.11
(1,453)	1:31:A:ALA:HA	1:16:A:LEU:HB2	23	0.11
(1,453)	1:31:A:ALA:HA	1:16:A:LEU:HB3	23	0.11
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	11	0.11
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	11	0.11
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	11	0.11
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	11	0.11
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	23	0.11
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	23	0.11
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	23	0.11
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	23	0.11
(1,362)	1:27:A:ILE:HD11	1:17:A:LYS:HG2	19	0.11
(1,362)	1:27:A:ILE:HD11	1:17:A:LYS:HG3	19	0.11
(1,362)	1:27:A:ILE:HD12	1:17:A:LYS:HG2	19	0.11
(1,362)	1:27:A:ILE:HD12	1:17:A:LYS:HG3	19	0.11
(1,362)	1:27:A:ILE:HD13	1:17:A:LYS:HG2	19	0.11
(1,362)	1:27:A:ILE:HD13	1:17:A:LYS:HG3	19	0.11
(1,261)	1:20:A:ALA:HA	1:31:A:ALA:H	10	0.11
(1,201)	1:17:A:LYS:H	1:14:A:GLN:H	2	0.11
(1,201)	1:17:A:LYS:H	1:14:A:GLN:H	24	0.11
(1,180)	1:16:A:LEU:H	1:19:A:LEU:HB2	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,180)	1:16:A:LEU:H	1:19:A:LEU:HB3	4	0.11
(1,180)	1:16:A:LEU:H	1:19:A:LEU:HB2	15	0.11
(1,180)	1:16:A:LEU:H	1:19:A:LEU:HB3	15	0.11
(1,69)	1:8:A:MET:HE1	1:8:A:MET:HB2	3	0.11
(1,69)	1:8:A:MET:HE1	1:8:A:MET:HB3	3	0.11
(1,69)	1:8:A:MET:HE2	1:8:A:MET:HB2	3	0.11
(1,69)	1:8:A:MET:HE2	1:8:A:MET:HB3	3	0.11
(1,69)	1:8:A:MET:HE3	1:8:A:MET:HB2	3	0.11
(1,69)	1:8:A:MET:HE3	1:8:A:MET:HB3	3	0.11
(1,65)	1:8:A:MET:HG2	1:6:A:ILE:HD11	3	0.11
(1,65)	1:8:A:MET:HG2	1:6:A:ILE:HD12	3	0.11
(1,65)	1:8:A:MET:HG2	1:6:A:ILE:HD13	3	0.11
(1,65)	1:8:A:MET:HG3	1:6:A:ILE:HD11	3	0.11
(1,65)	1:8:A:MET:HG3	1:6:A:ILE:HD12	3	0.11
(1,65)	1:8:A:MET:HG3	1:6:A:ILE:HD13	3	0.11
(1,2062)	1:127:B:ILE:HD11	1:4:A:LEU:HD11	11	0.1
(1,2062)	1:127:B:ILE:HD11	1:4:A:LEU:HD12	11	0.1
(1,2062)	1:127:B:ILE:HD11	1:4:A:LEU:HD13	11	0.1
(1,2062)	1:127:B:ILE:HD11	1:4:A:LEU:HD21	11	0.1
(1,2062)	1:127:B:ILE:HD11	1:4:A:LEU:HD22	11	0.1
(1,2062)	1:127:B:ILE:HD11	1:4:A:LEU:HD23	11	0.1
(1,2062)	1:127:B:ILE:HD12	1:4:A:LEU:HD11	11	0.1
(1,2062)	1:127:B:ILE:HD12	1:4:A:LEU:HD12	11	0.1
(1,2062)	1:127:B:ILE:HD12	1:4:A:LEU:HD13	11	0.1
(1,2062)	1:127:B:ILE:HD12	1:4:A:LEU:HD21	11	0.1
(1,2062)	1:127:B:ILE:HD12	1:4:A:LEU:HD22	11	0.1
(1,2062)	1:127:B:ILE:HD12	1:4:A:LEU:HD23	11	0.1
(1,2062)	1:127:B:ILE:HD13	1:4:A:LEU:HD11	11	0.1
(1,2062)	1:127:B:ILE:HD13	1:4:A:LEU:HD12	11	0.1
(1,2062)	1:127:B:ILE:HD13	1:4:A:LEU:HD13	11	0.1
(1,2062)	1:127:B:ILE:HD13	1:4:A:LEU:HD21	11	0.1
(1,2062)	1:127:B:ILE:HD13	1:4:A:LEU:HD22	11	0.1
(1,2062)	1:127:B:ILE:HD13	1:4:A:LEU:HD23	11	0.1
(1,2025)	1:108:B:MET:HE1	1:36:A:PHE:HD1	7	0.1
(1,2025)	1:108:B:MET:HE1	1:36:A:PHE:HD2	7	0.1
(1,2025)	1:108:B:MET:HE2	1:36:A:PHE:HD1	7	0.1
(1,2025)	1:108:B:MET:HE2	1:36:A:PHE:HD2	7	0.1
(1,2025)	1:108:B:MET:HE3	1:36:A:PHE:HD1	7	0.1
(1,2025)	1:108:B:MET:HE3	1:36:A:PHE:HD2	7	0.1
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG21	12	0.1
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG22	12	0.1
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG23	12	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG21	17	0.1
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG22	17	0.1
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG23	17	0.1
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG21	23	0.1
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG22	23	0.1
(1,2014)	1:106:B:ILE:HB	1:6:A:ILE:HG23	23	0.1
(1,1985)	1:104:B:LEU:HD11	1:27:A:ILE:HD11	20	0.1
(1,1985)	1:104:B:LEU:HD11	1:27:A:ILE:HD12	20	0.1
(1,1985)	1:104:B:LEU:HD11	1:27:A:ILE:HD13	20	0.1
(1,1985)	1:104:B:LEU:HD12	1:27:A:ILE:HD11	20	0.1
(1,1985)	1:104:B:LEU:HD12	1:27:A:ILE:HD12	20	0.1
(1,1985)	1:104:B:LEU:HD12	1:27:A:ILE:HD13	20	0.1
(1,1985)	1:104:B:LEU:HD13	1:27:A:ILE:HD11	20	0.1
(1,1985)	1:104:B:LEU:HD13	1:27:A:ILE:HD12	20	0.1
(1,1985)	1:104:B:LEU:HD13	1:27:A:ILE:HD13	20	0.1
(1,1985)	1:104:B:LEU:HD21	1:27:A:ILE:HD11	20	0.1
(1,1985)	1:104:B:LEU:HD21	1:27:A:ILE:HD12	20	0.1
(1,1985)	1:104:B:LEU:HD21	1:27:A:ILE:HD13	20	0.1
(1,1985)	1:104:B:LEU:HD22	1:27:A:ILE:HD11	20	0.1
(1,1985)	1:104:B:LEU:HD22	1:27:A:ILE:HD12	20	0.1
(1,1985)	1:104:B:LEU:HD22	1:27:A:ILE:HD13	20	0.1
(1,1985)	1:104:B:LEU:HD23	1:27:A:ILE:HD11	20	0.1
(1,1985)	1:104:B:LEU:HD23	1:27:A:ILE:HD12	20	0.1
(1,1985)	1:104:B:LEU:HD23	1:27:A:ILE:HD13	20	0.1
(1,1850)	1:167:B:THR:H	1:167:B:THR:HA	14	0.1
(1,1833)	1:164:B:LYS:HE2	1:164:B:LYS:HB2	4	0.1
(1,1833)	1:164:B:LYS:HE2	1:164:B:LYS:HB3	4	0.1
(1,1833)	1:164:B:LYS:HE3	1:164:B:LYS:HB2	4	0.1
(1,1833)	1:164:B:LYS:HE3	1:164:B:LYS:HB3	4	0.1
(1,1833)	1:164:B:LYS:HE2	1:164:B:LYS:HB2	11	0.1
(1,1833)	1:164:B:LYS:HE2	1:164:B:LYS:HB3	11	0.1
(1,1833)	1:164:B:LYS:HE3	1:164:B:LYS:HB2	11	0.1
(1,1833)	1:164:B:LYS:HE3	1:164:B:LYS:HB3	11	0.1
(1,1643)	1:140:B:ALA:H	1:140:B:ALA:HA	6	0.1
(1,1643)	1:140:B:ALA:H	1:140:B:ALA:HA	17	0.1
(1,1643)	1:140:B:ALA:H	1:140:B:ALA:HA	23	0.1
(1,1550)	1:133:B:GLU:HA	1:136:B:PHE:HE1	23	0.1
(1,1550)	1:133:B:GLU:HA	1:136:B:PHE:HE2	23	0.1
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	3	0.1
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	8	0.1
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	9	0.1
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	11	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	12	0.1
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	13	0.1
(1,1528)	1:132:B:LEU:HA	1:131:B:ALA:H	16	0.1
(1,1517)	1:131:B:ALA:HA	1:132:B:LEU:HB2	6	0.1
(1,1517)	1:131:B:ALA:HA	1:132:B:LEU:HB3	6	0.1
(1,1517)	1:131:B:ALA:HA	1:132:B:LEU:HB2	14	0.1
(1,1517)	1:131:B:ALA:HA	1:132:B:LEU:HB3	14	0.1
(1,1517)	1:131:B:ALA:HA	1:132:B:LEU:HB2	15	0.1
(1,1517)	1:131:B:ALA:HA	1:132:B:LEU:HB3	15	0.1
(1,1517)	1:131:B:ALA:HA	1:132:B:LEU:HB2	18	0.1
(1,1517)	1:131:B:ALA:HA	1:132:B:LEU:HB3	18	0.1
(1,1517)	1:131:B:ALA:HA	1:132:B:LEU:HB2	20	0.1
(1,1517)	1:131:B:ALA:HA	1:132:B:LEU:HB3	20	0.1
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	9	0.1
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	9	0.1
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	9	0.1
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	9	0.1
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD1	14	0.1
(1,1474)	1:129:B:GLN:HB2	1:130:B:TYR:HD2	14	0.1
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD1	14	0.1
(1,1474)	1:129:B:GLN:HB3	1:130:B:TYR:HD2	14	0.1
(1,1255)	1:117:B:LYS:H	1:114:B:GLN:H	1	0.1
(1,1255)	1:117:B:LYS:H	1:114:B:GLN:H	17	0.1
(1,1204)	1:114:B:GLN:H	1:115:B:SER:HA	22	0.1
(1,1025)	1:31:A:ALA:HA	1:135:B:LEU:H	24	0.1
(1,1008)	1:27:A:ILE:HD11	1:104:B:LEU:HD11	20	0.1
(1,1008)	1:27:A:ILE:HD11	1:104:B:LEU:HD12	20	0.1
(1,1008)	1:27:A:ILE:HD11	1:104:B:LEU:HD13	20	0.1
(1,1008)	1:27:A:ILE:HD11	1:104:B:LEU:HD21	20	0.1
(1,1008)	1:27:A:ILE:HD11	1:104:B:LEU:HD22	20	0.1
(1,1008)	1:27:A:ILE:HD11	1:104:B:LEU:HD23	20	0.1
(1,1008)	1:27:A:ILE:HD12	1:104:B:LEU:HD11	20	0.1
(1,1008)	1:27:A:ILE:HD12	1:104:B:LEU:HD12	20	0.1
(1,1008)	1:27:A:ILE:HD12	1:104:B:LEU:HD13	20	0.1
(1,1008)	1:27:A:ILE:HD12	1:104:B:LEU:HD21	20	0.1
(1,1008)	1:27:A:ILE:HD12	1:104:B:LEU:HD22	20	0.1
(1,1008)	1:27:A:ILE:HD12	1:104:B:LEU:HD23	20	0.1
(1,1008)	1:27:A:ILE:HD13	1:104:B:LEU:HD11	20	0.1
(1,1008)	1:27:A:ILE:HD13	1:104:B:LEU:HD12	20	0.1
(1,1008)	1:27:A:ILE:HD13	1:104:B:LEU:HD13	20	0.1
(1,1008)	1:27:A:ILE:HD13	1:104:B:LEU:HD21	20	0.1
(1,1008)	1:27:A:ILE:HD13	1:104:B:LEU:HD22	20	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1008)	1:27:A:ILE:HD13	1:104:B:LEU:HD23	20	0.1
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD11	16	0.1
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD12	16	0.1
(1,984)	1:8:A:MET:HE1	1:127:B:ILE:HD13	16	0.1
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD11	16	0.1
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD12	16	0.1
(1,984)	1:8:A:MET:HE2	1:127:B:ILE:HD13	16	0.1
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD11	16	0.1
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD12	16	0.1
(1,984)	1:8:A:MET:HE3	1:127:B:ILE:HD13	16	0.1
(1,971)	1:8:A:MET:HE1	1:136:B:PHE:HD1	20	0.1
(1,971)	1:8:A:MET:HE1	1:136:B:PHE:HD2	20	0.1
(1,971)	1:8:A:MET:HE2	1:136:B:PHE:HD1	20	0.1
(1,971)	1:8:A:MET:HE2	1:136:B:PHE:HD2	20	0.1
(1,971)	1:8:A:MET:HE3	1:136:B:PHE:HD1	20	0.1
(1,971)	1:8:A:MET:HE3	1:136:B:PHE:HD2	20	0.1
(1,971)	1:8:A:MET:HE1	1:136:B:PHE:HD1	21	0.1
(1,971)	1:8:A:MET:HE1	1:136:B:PHE:HD2	21	0.1
(1,971)	1:8:A:MET:HE2	1:136:B:PHE:HD1	21	0.1
(1,971)	1:8:A:MET:HE2	1:136:B:PHE:HD2	21	0.1
(1,971)	1:8:A:MET:HE3	1:136:B:PHE:HD1	21	0.1
(1,971)	1:8:A:MET:HE3	1:136:B:PHE:HD2	21	0.1
(1,931)	1:4:A:LEU:HD11	1:127:B:ILE:HD11	11	0.1
(1,931)	1:4:A:LEU:HD11	1:127:B:ILE:HD12	11	0.1
(1,931)	1:4:A:LEU:HD11	1:127:B:ILE:HD13	11	0.1
(1,931)	1:4:A:LEU:HD12	1:127:B:ILE:HD11	11	0.1
(1,931)	1:4:A:LEU:HD12	1:127:B:ILE:HD12	11	0.1
(1,931)	1:4:A:LEU:HD12	1:127:B:ILE:HD13	11	0.1
(1,931)	1:4:A:LEU:HD13	1:127:B:ILE:HD11	11	0.1
(1,931)	1:4:A:LEU:HD13	1:127:B:ILE:HD12	11	0.1
(1,931)	1:4:A:LEU:HD13	1:127:B:ILE:HD13	11	0.1
(1,931)	1:4:A:LEU:HD21	1:127:B:ILE:HD11	11	0.1
(1,931)	1:4:A:LEU:HD21	1:127:B:ILE:HD12	11	0.1
(1,931)	1:4:A:LEU:HD21	1:127:B:ILE:HD13	11	0.1
(1,931)	1:4:A:LEU:HD22	1:127:B:ILE:HD11	11	0.1
(1,931)	1:4:A:LEU:HD22	1:127:B:ILE:HD12	11	0.1
(1,931)	1:4:A:LEU:HD22	1:127:B:ILE:HD13	11	0.1
(1,931)	1:4:A:LEU:HD23	1:127:B:ILE:HD11	11	0.1
(1,931)	1:4:A:LEU:HD23	1:127:B:ILE:HD12	11	0.1
(1,931)	1:4:A:LEU:HD23	1:127:B:ILE:HD13	11	0.1
(1,848)	1:75:A:ASP:H	1:75:A:ASP:HA	16	0.1
(1,794)	1:66:A:SER:H	1:65:A:VAL:HA	18	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,779)	1:64:A:LYS:HE2	1:64:A:LYS:HB2	24	0.1
(1,779)	1:64:A:LYS:HE2	1:64:A:LYS:HB3	24	0.1
(1,779)	1:64:A:LYS:HE3	1:64:A:LYS:HB2	24	0.1
(1,779)	1:64:A:LYS:HE3	1:64:A:LYS:HB3	24	0.1
(1,765)	1:61:A:LEU:H	1:61:A:LEU:HB2	6	0.1
(1,765)	1:61:A:LEU:H	1:61:A:LEU:HB3	6	0.1
(1,753)	1:59:A:ASP:H	1:59:A:ASP:HA	22	0.1
(1,589)	1:40:A:ALA:H	1:40:A:ALA:HA	5	0.1
(1,589)	1:40:A:ALA:H	1:40:A:ALA:HA	21	0.1
(1,554)	1:36:A:PHE:HA	1:37:A:PRO:HD2	11	0.1
(1,554)	1:36:A:PHE:HA	1:37:A:PRO:HD3	11	0.1
(1,474)	1:32:A:LEU:HA	1:31:A:ALA:H	9	0.1
(1,474)	1:32:A:LEU:HA	1:31:A:ALA:H	17	0.1
(1,463)	1:31:A:ALA:HA	1:32:A:LEU:HB2	3	0.1
(1,463)	1:31:A:ALA:HA	1:32:A:LEU:HB3	3	0.1
(1,463)	1:31:A:ALA:HA	1:32:A:LEU:HB2	4	0.1
(1,463)	1:31:A:ALA:HA	1:32:A:LEU:HB3	4	0.1
(1,463)	1:31:A:ALA:HA	1:32:A:LEU:HB2	7	0.1
(1,463)	1:31:A:ALA:HA	1:32:A:LEU:HB3	7	0.1
(1,463)	1:31:A:ALA:HA	1:32:A:LEU:HB2	13	0.1
(1,463)	1:31:A:ALA:HA	1:32:A:LEU:HB3	13	0.1
(1,463)	1:31:A:ALA:HA	1:32:A:LEU:HB2	23	0.1
(1,463)	1:31:A:ALA:HA	1:32:A:LEU:HB3	23	0.1
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	9	0.1
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	9	0.1
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	9	0.1
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	9	0.1
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD1	22	0.1
(1,420)	1:29:A:GLN:HB2	1:30:A:TYR:HD2	22	0.1
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD1	22	0.1
(1,420)	1:29:A:GLN:HB3	1:30:A:TYR:HD2	22	0.1
(1,280)	1:22:A:LEU:HA	1:21:A:ALA:H	10	0.1
(1,261)	1:20:A:ALA:HA	1:31:A:ALA:H	14	0.1
(1,261)	1:20:A:ALA:HA	1:31:A:ALA:H	22	0.1
(1,231)	1:19:A:LEU:HB2	1:22:A:LEU:HB2	22	0.1
(1,231)	1:19:A:LEU:HB2	1:22:A:LEU:HB3	22	0.1
(1,231)	1:19:A:LEU:HB3	1:22:A:LEU:HB2	22	0.1
(1,231)	1:19:A:LEU:HB3	1:22:A:LEU:HB3	22	0.1
(1,201)	1:17:A:LYS:H	1:14:A:GLN:H	1	0.1
(1,201)	1:17:A:LYS:H	1:14:A:GLN:H	10	0.1
(1,201)	1:17:A:LYS:H	1:14:A:GLN:H	14	0.1
(1,166)	1:16:A:LEU:HB2	1:17:A:LYS:H	24	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,166)	1:16:A:LEU:HB3	1:17:A:LYS:H	24	0.1

10 Dihedral-angle violation analysis

No dihedral-angle restraints found