



Full wwPDB NMR Structure Validation Report ⓘ

Mar 5, 2026 – 02:29 PM UTC

PDB ID : 2MSL / pdb_00002msl
BMRB ID : 25125
Title : Solution Structure and Chemical Shift Assignments for the Apo form of the Receiver Domain of Nitrogen Regulatory Protein C (NTRC) at 35C
Authors : Clarkson, M.W.; Pontiggia, F.; Villali, J.; Kern, D.
Deposited on : 2014-08-04

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

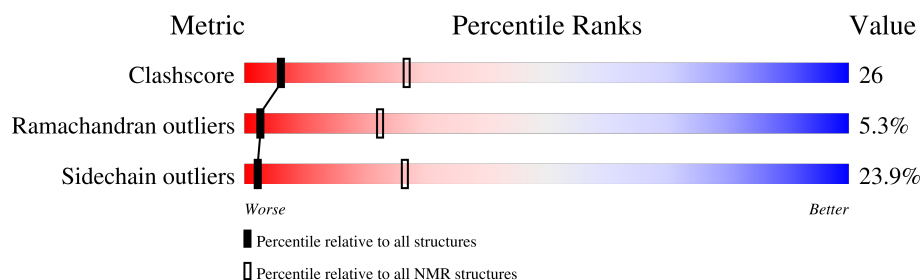
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 94%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	124	39% 45% 8% 8%

2 Ensemble composition and analysis

This entry contains 25 models. Model 5 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:3-A:55, A:62-A:122 (114)	0.52	5

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 and 5 single-model clusters were found.

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

3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 1910 atoms, of which 955 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Nitrogen regulation protein NR(I).

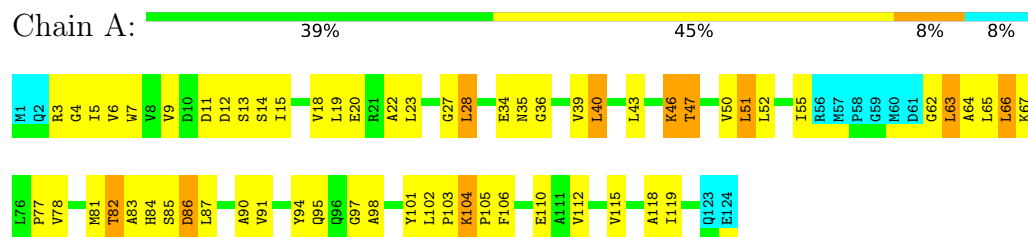
Mol	Chain	Residues	Atoms						Trace
1	A	124	Total	C	H	N	O	S	0
			1910	606	955	162	181	6	

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Nitrogen regulation protein NR(I)

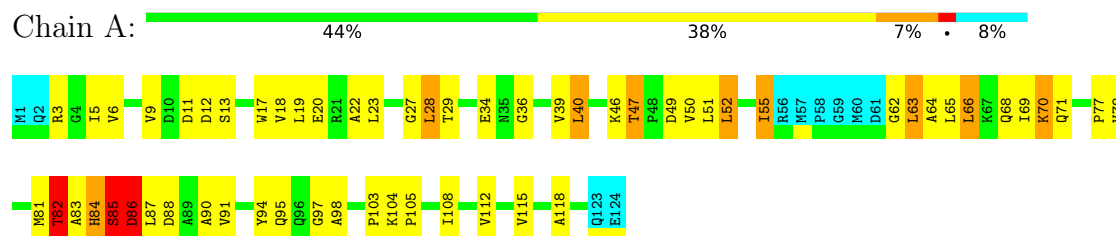


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

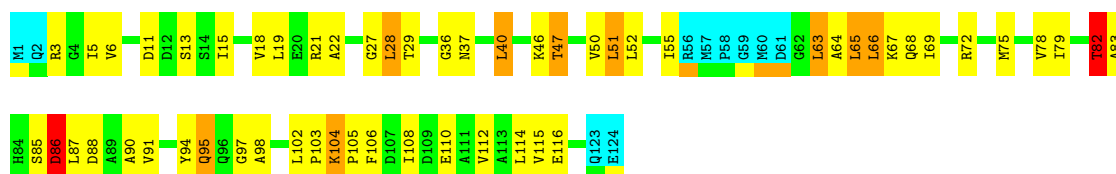
- Molecule 1: Nitrogen regulation protein NR(I)



4.2.2 Score per residue for model 2

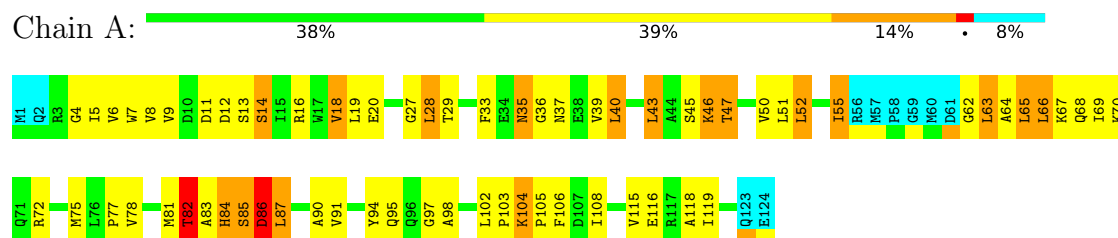
- Molecule 1: Nitrogen regulation protein NR(I)





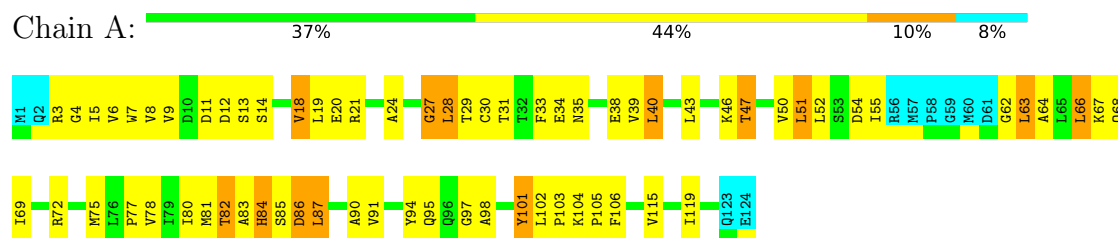
4.2.3 Score per residue for model 3

- Molecule 1: Nitrogen regulation protein NR(I)



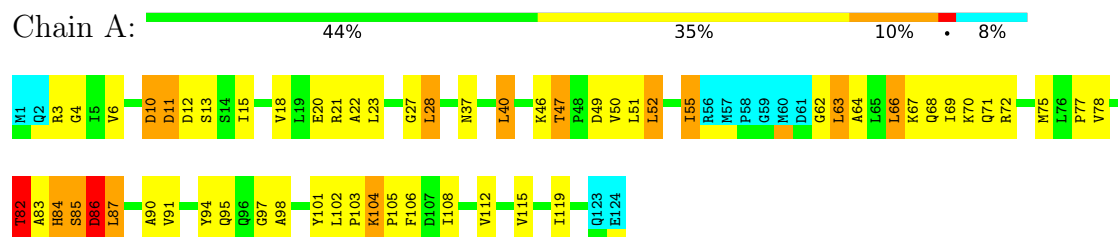
4.2.4 Score per residue for model 4

- Molecule 1: Nitrogen regulation protein NR(I)



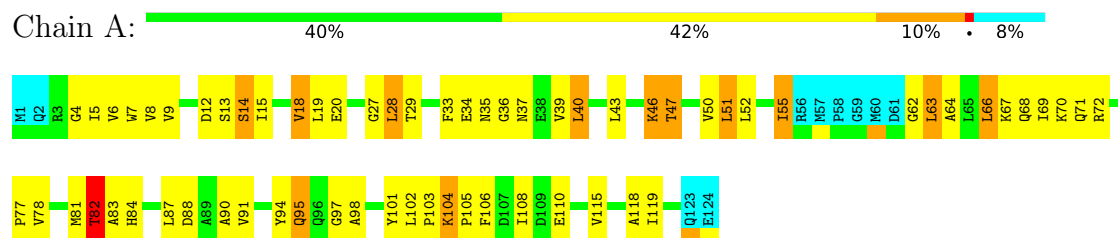
4.2.5 Score per residue for model 5 (medoid)

- Molecule 1: Nitrogen regulation protein NR(I)



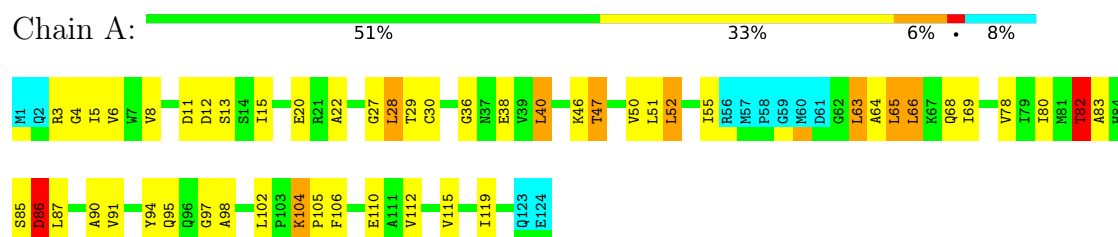
4.2.6 Score per residue for model 6

- Molecule 1: Nitrogen regulation protein NR(I)



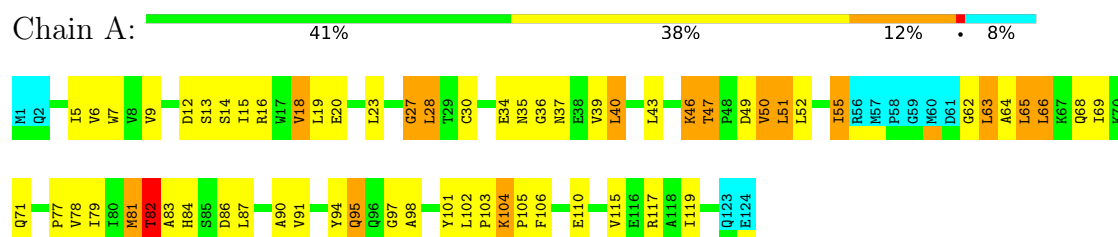
4.2.7 Score per residue for model 7

- Molecule 1: Nitrogen regulation protein NR(I)



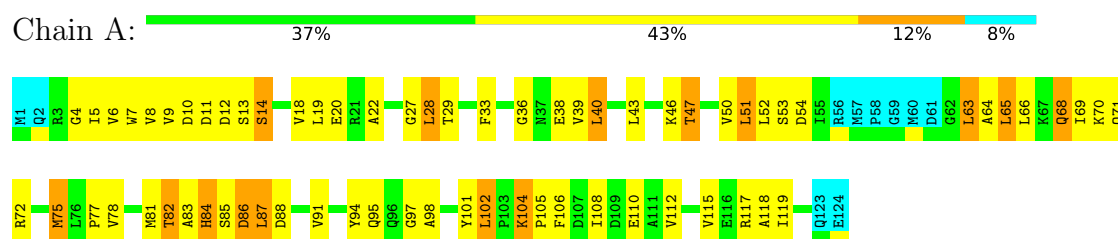
4.2.8 Score per residue for model 8

- Molecule 1: Nitrogen regulation protein NR(I)



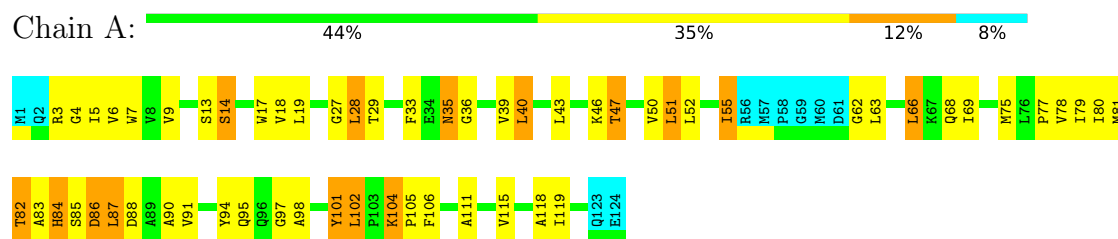
4.2.9 Score per residue for model 9

- Molecule 1: Nitrogen regulation protein NR(I)



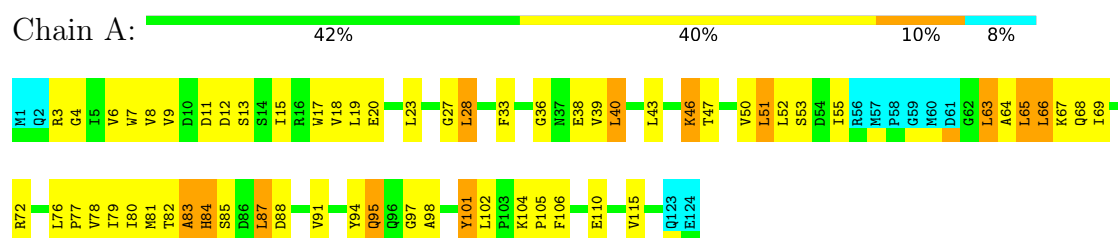
4.2.10 Score per residue for model 10

- Molecule 1: Nitrogen regulation protein NR(I)



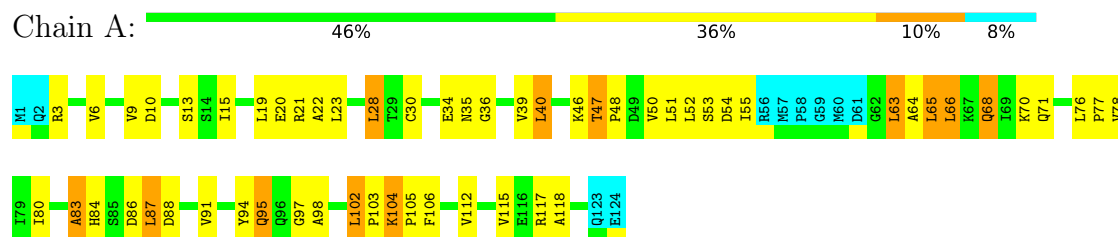
4.2.11 Score per residue for model 11

- Molecule 1: Nitrogen regulation protein NR(I)



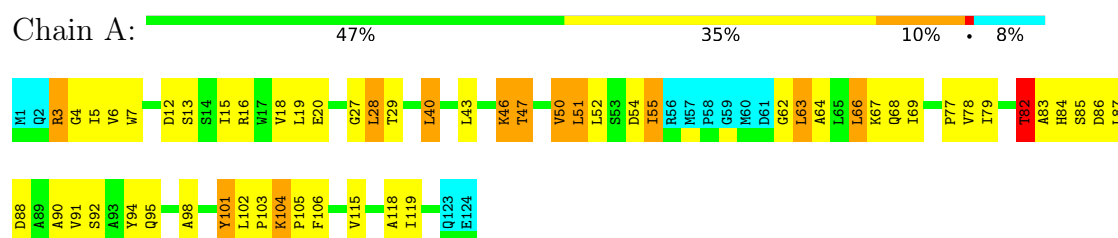
4.2.12 Score per residue for model 12

- Molecule 1: Nitrogen regulation protein NR(I)



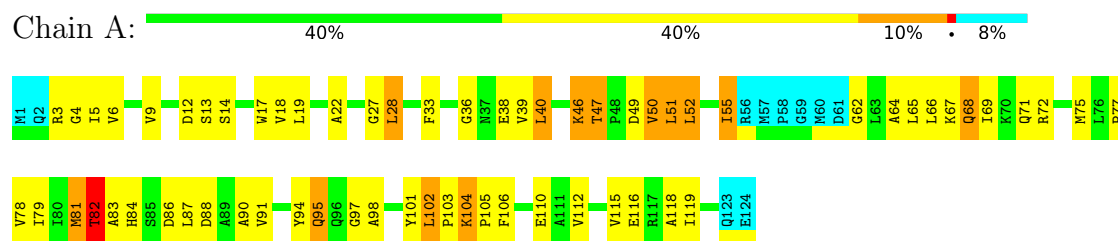
4.2.13 Score per residue for model 13

- Molecule 1: Nitrogen regulation protein NR(I)



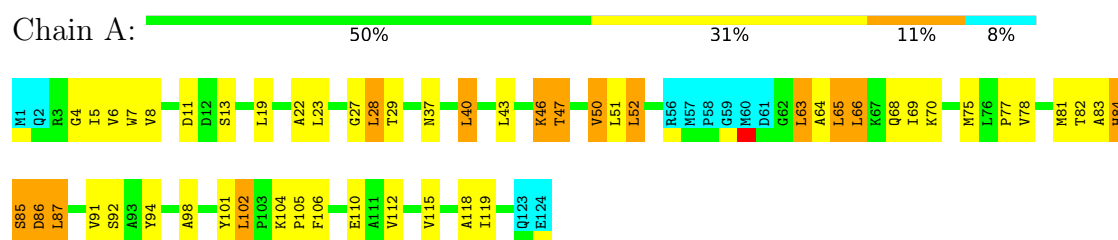
4.2.14 Score per residue for model 14

- Molecule 1: Nitrogen regulation protein NR(I)



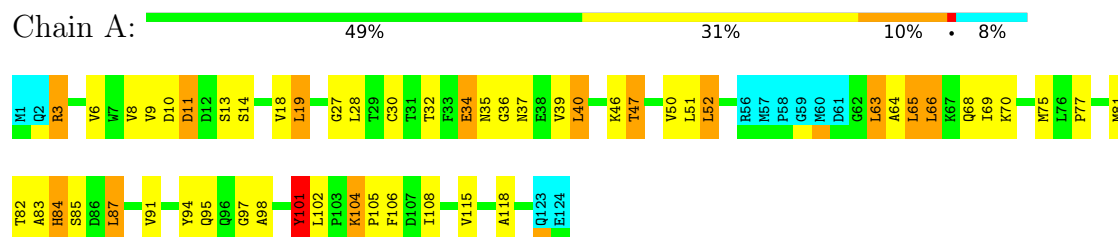
4.2.15 Score per residue for model 15

- Molecule 1: Nitrogen regulation protein NR(I)



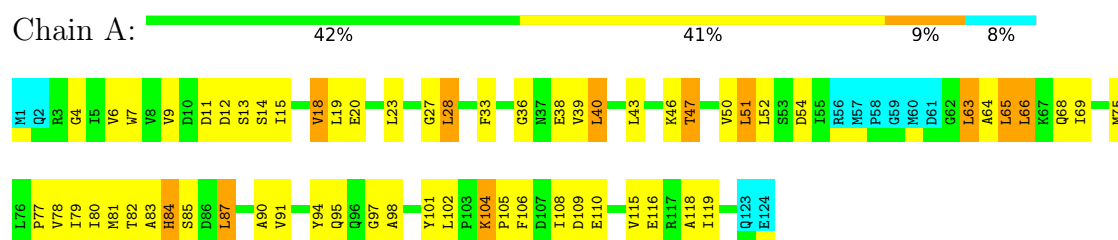
4.2.16 Score per residue for model 16

- Molecule 1: Nitrogen regulation protein NR(I)



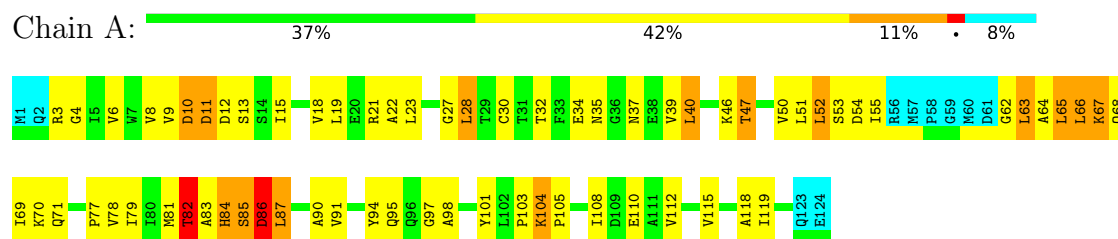
4.2.17 Score per residue for model 17

- Molecule 1: Nitrogen regulation protein NR(I)



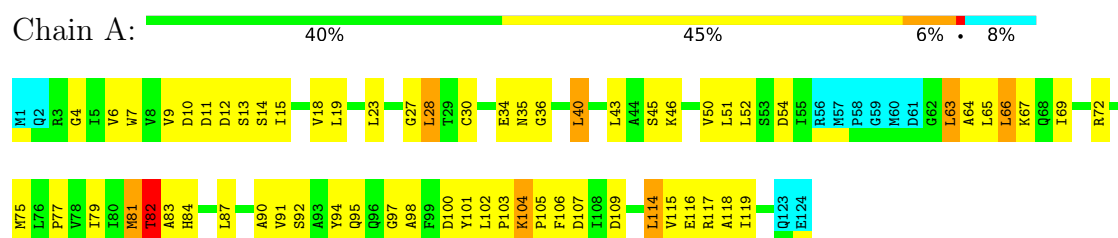
4.2.18 Score per residue for model 18

- Molecule 1: Nitrogen regulation protein NR(I)



4.2.19 Score per residue for model 19

- Molecule 1: Nitrogen regulation protein NR(I)



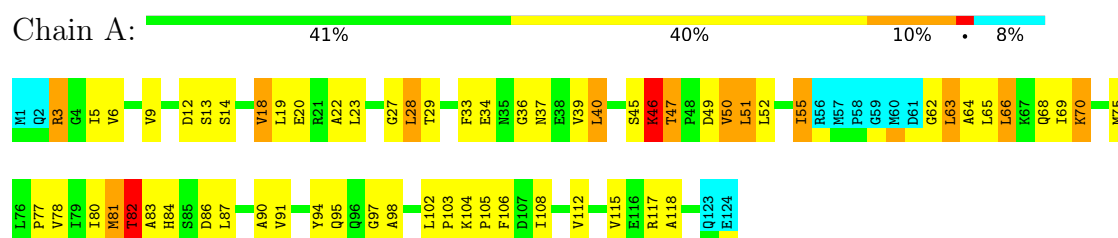
4.2.20 Score per residue for model 20

- Molecule 1: Nitrogen regulation protein NR(I)



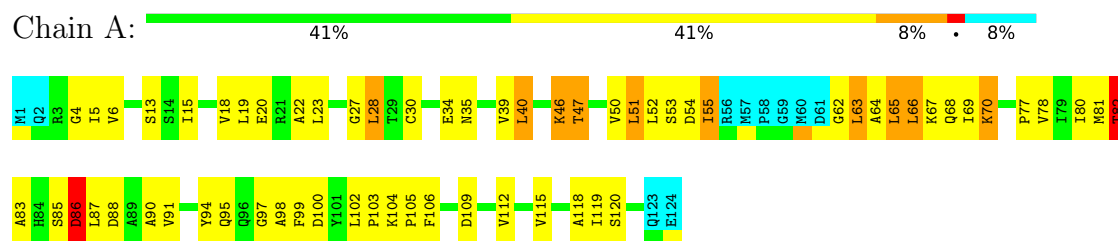
4.2.21 Score per residue for model 21

- Molecule 1: Nitrogen regulation protein NR(I)



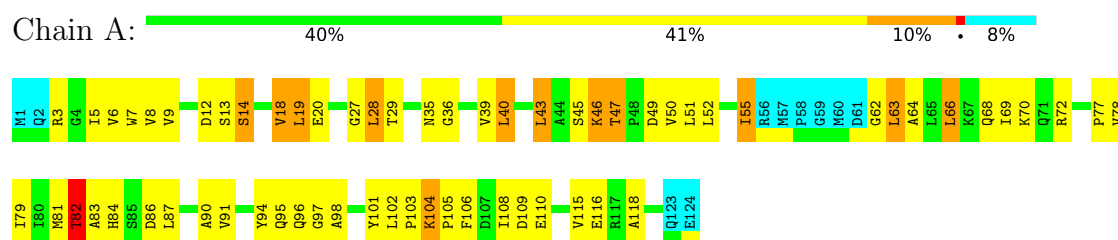
4.2.22 Score per residue for model 22

- Molecule 1: Nitrogen regulation protein NR(I)



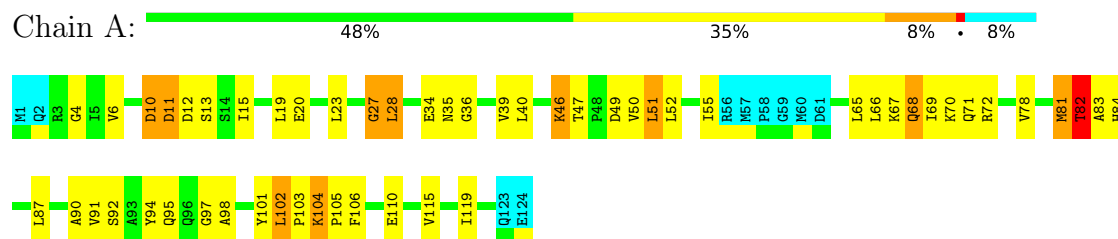
4.2.23 Score per residue for model 23

- Molecule 1: Nitrogen regulation protein NR(I)



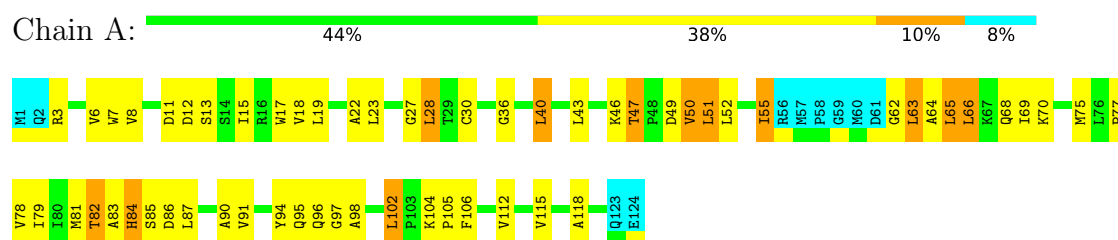
4.2.24 Score per residue for model 24

- Molecule 1: Nitrogen regulation protein NR(I)



4.2.25 Score per residue for model 25

- Molecule 1: Nitrogen regulation protein NR(I)



5 Refinement protocol and experimental data overview

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

Of the 300 calculated structures, 25 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
CYANA	structure solution	
CYANA	refinement	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1557
Number of shifts mapped to atoms	1557
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	94%

6 Model quality

6.1 Standard geometry

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

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	874	879	879	46±6
All	All	21850	21975	21975	1151

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 26.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:23:LEU:HD22	1:A:28:LEU:HD12	1.05	1.29	24	10
1:A:19:LEU:HD11	1:A:81:MET:HE1	0.98	1.32	10	12
1:A:8:VAL:HG11	1:A:19:LEU:HD13	0.97	1.31	4	3
1:A:19:LEU:HD21	1:A:52:LEU:HD22	0.91	1.42	23	2
1:A:19:LEU:HD22	1:A:52:LEU:HD13	0.90	1.41	14	5
1:A:50:VAL:HG11	1:A:115:VAL:HG23	0.83	1.50	20	22
1:A:18:VAL:HG23	1:A:108:ILE:HD11	0.83	1.51	23	7
1:A:63:LEU:C	1:A:63:LEU:HD13	0.79	2.03	18	1
1:A:66:LEU:HD22	1:A:69:ILE:HD12	0.78	1.56	8	13
1:A:6:VAL:HG13	1:A:50:VAL:HG13	0.76	1.55	19	11
1:A:69:ILE:HG21	1:A:78:VAL:HG21	0.74	1.57	4	19
1:A:55:ILE:HD11	1:A:80:ILE:HD12	0.73	1.61	21	4
1:A:4:GLY:HA3	1:A:119:ILE:HD13	0.72	1.61	18	16
1:A:8:VAL:HG22	1:A:52:LEU:HD13	0.70	1.62	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:14:SER:O	1:A:18:VAL:HG12	0.70	1.87	23	9
1:A:50:VAL:HG11	1:A:115:VAL:CG2	0.69	2.16	11	17
1:A:9:VAL:HG11	1:A:39:VAL:HG21	0.69	1.62	18	3
1:A:63:LEU:HD22	1:A:63:LEU:O	0.69	1.88	18	1
1:A:6:VAL:HG13	1:A:52:LEU:HD13	0.68	1.65	11	1
1:A:102:LEU:HD12	1:A:103:PRO:HD2	0.68	1.65	4	8
1:A:6:VAL:HG21	1:A:115:VAL:HG21	0.67	1.65	8	16
1:A:94:TYR:O	1:A:98:ALA:HB3	0.67	1.89	2	25
1:A:87:LEU:O	1:A:91:VAL:HG23	0.67	1.90	19	25
1:A:102:LEU:HD21	1:A:106:PHE:CG	0.66	2.25	23	20
1:A:22:ALA:HB1	1:A:112:VAL:HG22	0.66	1.68	18	9
1:A:50:VAL:HG11	1:A:115:VAL:HG21	0.65	1.67	10	2
1:A:33:PHE:CG	1:A:39:VAL:HG22	0.64	2.26	4	9
1:A:4:GLY:HA3	1:A:119:ILE:HG21	0.64	1.70	18	2
1:A:19:LEU:HD11	1:A:81:MET:HE3	0.64	1.70	8	2
1:A:15:ILE:HG21	1:A:54:ASP:CG	0.64	2.17	19	3
1:A:9:VAL:HG21	1:A:36:GLY:HA2	0.63	1.70	23	6
1:A:51:LEU:C	1:A:52:LEU:HD12	0.63	2.19	24	13
1:A:22:ALA:HB1	1:A:112:VAL:CG2	0.63	2.24	15	13
1:A:15:ILE:HD12	1:A:104:LYS:HE2	0.63	1.70	11	1
1:A:9:VAL:HB	1:A:39:VAL:HG21	0.63	1.71	17	11
1:A:39:VAL:HG11	1:A:51:LEU:HD21	0.63	1.70	24	2
1:A:52:LEU:O	1:A:81:MET:HE2	0.62	1.94	18	4
1:A:6:VAL:CG1	1:A:52:LEU:HD13	0.62	2.24	11	11
1:A:27:GLY:O	1:A:28:LEU:HD23	0.62	1.94	4	12
1:A:102:LEU:HD11	1:A:106:PHE:CB	0.62	2.23	10	16
1:A:6:VAL:CG2	1:A:115:VAL:HG21	0.62	2.25	25	15
1:A:51:LEU:O	1:A:52:LEU:HD12	0.62	1.95	25	8
1:A:6:VAL:HG22	1:A:50:VAL:CG1	0.62	2.24	9	7
1:A:54:ASP:OD2	1:A:81:MET:HE3	0.62	1.94	18	2
1:A:27:GLY:C	1:A:28:LEU:HD23	0.61	2.20	5	23
1:A:36:GLY:CA	1:A:65:LEU:HD13	0.61	2.25	14	13
1:A:40:LEU:HD22	1:A:68:GLN:NE2	0.61	2.11	4	16
1:A:65:LEU:HD23	1:A:66:LEU:N	0.61	2.11	12	12
1:A:79:ILE:CD1	1:A:114:LEU:HD11	0.61	2.25	19	1
1:A:81:MET:HE3	1:A:104:LYS:HE2	0.60	1.72	22	1
1:A:39:VAL:HG11	1:A:51:LEU:HD11	0.60	1.72	14	2
1:A:19:LEU:CD1	1:A:81:MET:HE1	0.60	2.25	17	12
1:A:23:LEU:CD2	1:A:28:LEU:HD12	0.60	2.26	1	3
1:A:36:GLY:HA3	1:A:65:LEU:HD13	0.59	1.73	12	11
1:A:18:VAL:CG2	1:A:108:ILE:HD11	0.59	2.27	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:52:LEU:O	1:A:81:MET:HE1	0.59	1.97	9	2
1:A:66:LEU:HG	1:A:69:ILE:HD12	0.59	1.74	10	2
1:A:6:VAL:HB	1:A:23:LEU:HD11	0.59	1.72	17	5
1:A:39:VAL:CG1	1:A:51:LEU:HD11	0.59	2.28	22	4
1:A:63:LEU:C	1:A:63:LEU:CD1	0.59	2.76	18	1
1:A:6:VAL:CG1	1:A:52:LEU:HD11	0.57	2.29	1	8
1:A:102:LEU:HD21	1:A:106:PHE:CD2	0.57	2.33	15	13
1:A:7:TRP:CZ3	1:A:43:LEU:HD23	0.57	2.34	11	14
1:A:15:ILE:HG23	1:A:104:LYS:CE	0.57	2.29	2	1
1:A:8:VAL:HB	1:A:32:THR:HG22	0.57	1.76	16	3
1:A:40:LEU:HD22	1:A:68:GLN:OE1	0.57	2.00	11	2
1:A:62:GLY:O	1:A:65:LEU:HD23	0.57	2.00	18	1
1:A:82:THR:O	1:A:83:ALA:HB3	0.57	1.98	13	10
1:A:82:THR:HG23	1:A:87:LEU:HD13	0.56	1.76	3	5
1:A:77:PRO:HG3	1:A:118:ALA:HB1	0.56	1.76	6	4
1:A:84:HIS:N	1:A:84:HIS:CD2	0.56	2.72	16	3
1:A:79:ILE:HD13	1:A:114:LEU:HD11	0.56	1.75	19	1
1:A:40:LEU:O	1:A:40:LEU:HD12	0.56	2.00	18	22
1:A:65:LEU:HD23	1:A:65:LEU:H	0.56	1.60	24	2
1:A:66:LEU:HD22	1:A:69:ILE:CD1	0.55	2.29	8	8
1:A:35:ASN:O	1:A:39:VAL:HG23	0.55	2.01	3	1
1:A:82:THR:HG21	1:A:86:ASP:CB	0.55	2.31	13	4
1:A:76:LEU:HD12	1:A:77:PRO:HD2	0.55	1.77	11	1
1:A:9:VAL:HG13	1:A:9:VAL:O	0.55	2.02	21	13
1:A:23:LEU:HD22	1:A:28:LEU:CD1	0.55	2.31	15	2
1:A:66:LEU:HA	1:A:69:ILE:HD12	0.55	1.77	24	5
1:A:102:LEU:HD11	1:A:106:PHE:HB2	0.55	1.79	4	5
1:A:4:GLY:O	1:A:23:LEU:HD13	0.55	2.02	11	1
1:A:50:VAL:HG23	1:A:77:PRO:O	0.54	2.01	13	13
1:A:5:ILE:HG23	1:A:29:THR:HB	0.54	1.78	2	12
1:A:83:ALA:CA	1:A:87:LEU:HD13	0.54	2.32	21	7
1:A:83:ALA:N	1:A:87:LEU:HD13	0.54	2.16	23	7
1:A:83:ALA:HB2	1:A:103:PRO:CB	0.54	2.32	22	7
1:A:5:ILE:HD12	1:A:46:LYS:NZ	0.54	2.17	13	1
1:A:66:LEU:HD13	1:A:80:ILE:CD1	0.54	2.32	11	3
1:A:82:THR:HG21	1:A:86:ASP:HB3	0.54	1.80	1	8
1:A:5:ILE:HD13	1:A:46:LYS:HE2	0.54	1.80	14	5
1:A:77:PRO:CB	1:A:118:ALA:HB1	0.53	2.33	16	13
1:A:91:VAL:HG22	1:A:101:TYR:OH	0.53	2.04	15	15
1:A:114:LEU:O	1:A:114:LEU:HD12	0.53	2.02	19	1
1:A:21:ARG:NE	1:A:108:ILE:HD13	0.53	2.19	5	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:8:VAL:HG21	1:A:19:LEU:HB3	0.53	1.80	25	5
1:A:50:VAL:CG1	1:A:115:VAL:HG23	0.53	2.33	14	5
1:A:82:THR:HG23	1:A:87:LEU:CD1	0.53	2.34	13	5
1:A:8:VAL:HG13	1:A:52:LEU:O	0.53	2.03	4	1
1:A:63:LEU:HD12	1:A:64:ALA:N	0.53	2.18	1	21
1:A:102:LEU:HD21	1:A:106:PHE:CB	0.53	2.33	4	4
1:A:82:THR:HG23	1:A:83:ALA:H	0.52	1.64	21	12
1:A:55:ILE:HD11	1:A:80:ILE:CD1	0.52	2.33	21	1
1:A:104:LYS:HA	1:A:105:PRO:C	0.52	2.30	22	25
1:A:69:ILE:CG2	1:A:78:VAL:HG21	0.52	2.34	4	1
1:A:10:ASP:OD2	1:A:15:ILE:HG21	0.52	2.04	18	4
1:A:83:ALA:HB2	1:A:103:PRO:HB3	0.52	1.80	12	2
1:A:115:VAL:HG22	1:A:119:ILE:CD1	0.52	2.35	8	2
1:A:6:VAL:HG13	1:A:50:VAL:O	0.52	2.04	8	1
1:A:77:PRO:CG	1:A:118:ALA:HB1	0.52	2.34	6	16
1:A:83:ALA:HB2	1:A:103:PRO:HB2	0.51	1.83	5	7
1:A:66:LEU:HD13	1:A:69:ILE:HD12	0.51	1.81	18	6
1:A:62:GLY:O	1:A:66:LEU:HD23	0.51	2.05	14	1
1:A:114:LEU:HD12	1:A:114:LEU:C	0.51	2.30	19	1
1:A:63:LEU:HD21	1:A:67:LYS:HE3	0.51	1.82	18	1
1:A:83:ALA:H	1:A:87:LEU:HD13	0.51	1.66	23	8
1:A:83:ALA:HB2	1:A:104:LYS:N	0.51	2.21	17	3
1:A:40:LEU:HD22	1:A:68:GLN:CD	0.51	2.31	24	16
1:A:8:VAL:CG1	1:A:19:LEU:HD13	0.51	2.35	23	2
1:A:15:ILE:HG23	1:A:104:LYS:HE2	0.50	1.83	2	2
1:A:83:ALA:HA	1:A:87:LEU:HD13	0.50	1.82	6	6
1:A:102:LEU:HD11	1:A:106:PHE:HB3	0.50	1.83	11	6
1:A:40:LEU:CD1	1:A:65:LEU:HD12	0.50	2.36	19	1
1:A:19:LEU:HD11	1:A:81:MET:CE	0.50	2.34	24	8
1:A:63:LEU:HD21	1:A:67:LYS:CE	0.50	2.36	18	1
1:A:50:VAL:HG21	1:A:115:VAL:HG23	0.50	1.83	9	1
1:A:55:ILE:HG23	1:A:62:GLY:HA3	0.50	1.83	21	12
1:A:15:ILE:O	1:A:18:VAL:HG22	0.49	2.07	22	5
1:A:75:MET:O	1:A:75:MET:HE3	0.49	2.06	9	1
1:A:4:GLY:CA	1:A:119:ILE:HG21	0.49	2.37	18	1
1:A:15:ILE:HG23	1:A:104:LYS:HE3	0.49	1.84	25	1
1:A:15:ILE:HD12	1:A:104:LYS:CE	0.49	2.38	7	2
1:A:94:TYR:CZ	1:A:98:ALA:HB1	0.49	2.43	19	16
1:A:33:PHE:CD2	1:A:39:VAL:HG22	0.49	2.42	10	4
1:A:19:LEU:CD2	1:A:52:LEU:HD22	0.49	2.37	10	2
1:A:15:ILE:O	1:A:19:LEU:HD12	0.48	2.07	17	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:9:VAL:HG21	1:A:36:GLY:CA	0.48	2.37	10	4
1:A:6:VAL:HG22	1:A:50:VAL:HG13	0.48	1.84	11	1
1:A:18:VAL:HG23	1:A:108:ILE:CD1	0.48	2.38	6	2
1:A:66:LEU:HD13	1:A:80:ILE:HD13	0.48	1.85	11	2
1:A:8:VAL:CG2	1:A:19:LEU:HD13	0.48	2.39	23	1
1:A:66:LEU:HD21	1:A:78:VAL:HG11	0.48	1.86	2	4
1:A:6:VAL:HG12	1:A:52:LEU:HD11	0.47	1.85	16	3
1:A:95:GLN:C	1:A:97:GLY:H	0.47	2.17	5	23
1:A:7:TRP:HZ3	1:A:43:LEU:HD23	0.47	1.69	11	4
1:A:23:LEU:HD12	1:A:30:CYS:HB3	0.47	1.85	19	3
1:A:5:ILE:HD13	1:A:46:LYS:HE3	0.47	1.86	22	1
1:A:19:LEU:HD11	1:A:81:MET:SD	0.47	2.49	15	3
1:A:21:ARG:HA	1:A:24:ALA:HB3	0.47	1.87	4	1
1:A:70:LYS:HE3	1:A:98:ALA:HB2	0.47	1.87	15	3
1:A:63:LEU:HD13	1:A:64:ALA:N	0.47	2.24	18	1
1:A:77:PRO:HB2	1:A:118:ALA:HB1	0.47	1.86	12	4
1:A:15:ILE:HD12	1:A:104:LYS:HE3	0.47	1.86	2	3
1:A:82:THR:O	1:A:83:ALA:CB	0.46	2.63	13	4
1:A:53:SER:HB3	1:A:66:LEU:HD11	0.46	1.88	11	1
1:A:8:VAL:HG13	1:A:19:LEU:HD13	0.46	1.88	16	1
1:A:17:TRP:CE3	1:A:18:VAL:HG13	0.46	2.45	25	5
1:A:66:LEU:CD2	1:A:69:ILE:HD12	0.46	2.40	13	3
1:A:63:LEU:C	1:A:63:LEU:HD12	0.46	2.36	10	1
1:A:66:LEU:HG	1:A:80:ILE:HD11	0.46	1.87	17	1
1:A:39:VAL:O	1:A:42:ALA:HB3	0.46	2.11	20	1
1:A:8:VAL:HG21	1:A:19:LEU:HD13	0.46	1.88	23	1
1:A:4:GLY:CA	1:A:119:ILE:HD13	0.46	2.36	18	1
1:A:18:VAL:HG12	1:A:108:ILE:HD11	0.46	1.87	1	1
1:A:79:ILE:HD13	1:A:114:LEU:CD2	0.46	2.41	2	1
1:A:66:LEU:HD22	1:A:80:ILE:HD11	0.46	1.88	12	2
1:A:4:GLY:HA3	1:A:28:LEU:HD13	0.45	1.87	11	1
1:A:55:ILE:CD1	1:A:80:ILE:HD12	0.45	2.39	21	1
1:A:70:LYS:CE	1:A:98:ALA:HB2	0.45	2.41	22	2
1:A:90:ALA:O	1:A:94:TYR:CB	0.45	2.64	25	20
1:A:7:TRP:CD1	1:A:31:THR:HG1	0.45	2.30	4	1
1:A:9:VAL:HG21	1:A:39:VAL:CG2	0.45	2.42	18	3
1:A:9:VAL:CG1	1:A:39:VAL:HG21	0.45	2.38	18	1
1:A:8:VAL:HG22	1:A:52:LEU:CD1	0.45	2.42	15	1
1:A:83:ALA:HA	1:A:87:LEU:HD22	0.45	1.87	3	2
1:A:65:LEU:HD23	1:A:66:LEU:H	0.45	1.70	20	1
1:A:102:LEU:HD12	1:A:103:PRO:CD	0.45	2.42	24	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:14:SER:O	1:A:18:VAL:HG22	0.45	2.11	10	2
1:A:70:LYS:HE2	1:A:98:ALA:HB2	0.44	1.89	1	1
1:A:65:LEU:CD2	1:A:66:LEU:HD12	0.44	2.43	12	1
1:A:52:LEU:HD11	1:A:79:ILE:HD12	0.44	1.88	8	3
1:A:83:ALA:C	1:A:84:HIS:CG	0.44	2.96	16	2
1:A:19:LEU:HD22	1:A:52:LEU:HD22	0.44	1.89	10	5
1:A:79:ILE:HG23	1:A:101:TYR:HA	0.44	1.90	10	2
1:A:15:ILE:HG21	1:A:54:ASP:OD2	0.44	2.13	19	1
1:A:53:SER:OG	1:A:80:ILE:HD13	0.44	2.13	22	1
1:A:54:ASP:HB3	1:A:81:MET:HE2	0.43	1.90	9	1
1:A:54:ASP:HB2	1:A:81:MET:HE3	0.43	1.89	17	1
1:A:22:ALA:HB1	1:A:112:VAL:HG23	0.43	1.90	22	1
1:A:83:ALA:O	1:A:84:HIS:C	0.43	2.61	10	5
1:A:80:ILE:HG22	1:A:80:ILE:O	0.43	2.13	17	1
1:A:18:VAL:HG23	1:A:108:ILE:CG1	0.43	2.42	3	1
1:A:78:VAL:HG12	1:A:79:ILE:N	0.43	2.29	10	7
1:A:53:SER:OG	1:A:66:LEU:HD21	0.43	2.14	9	1
1:A:76:LEU:HD12	1:A:77:PRO:CD	0.42	2.44	11	1
1:A:19:LEU:HD22	1:A:52:LEU:CD1	0.42	2.35	12	1
1:A:84:HIS:O	1:A:85:SER:C	0.42	2.63	1	1
1:A:94:TYR:O	1:A:98:ALA:CB	0.42	2.67	13	6
1:A:85:SER:O	1:A:86:ASP:CB	0.42	2.68	7	2
1:A:39:VAL:HG11	1:A:51:LEU:CD2	0.42	2.42	24	1
1:A:33:PHE:CE2	1:A:39:VAL:HG13	0.42	2.50	10	1
1:A:78:VAL:C	1:A:94:TYR:OH	0.41	2.63	21	3
1:A:106:PHE:CD1	1:A:111:ALA:HB2	0.41	2.50	10	1
1:A:84:HIS:O	1:A:86:ASP:N	0.41	2.53	18	3
1:A:36:GLY:C	1:A:65:LEU:HD13	0.41	2.41	21	2
1:A:83:ALA:HB2	1:A:104:LYS:H	0.41	1.75	4	1
1:A:80:ILE:O	1:A:80:ILE:HG22	0.41	2.16	10	1
1:A:84:HIS:O	1:A:84:HIS:CG	0.41	2.73	13	1
1:A:6:VAL:HG11	1:A:52:LEU:HD11	0.41	1.91	3	1
1:A:48:PRO:O	1:A:76:LEU:HD13	0.41	2.15	12	1
1:A:114:LEU:C	1:A:114:LEU:CD1	0.41	2.93	19	1
1:A:82:THR:HG23	1:A:83:ALA:N	0.41	2.31	10	3
1:A:83:ALA:O	1:A:84:HIS:CD2	0.41	2.73	15	2
1:A:94:TYR:C	1:A:96:GLN:H	0.41	2.24	23	1
1:A:40:LEU:HD12	1:A:40:LEU:C	0.40	2.41	16	1
1:A:99:PHE:O	1:A:100:ASP:C	0.40	2.64	22	1
1:A:66:LEU:HD21	1:A:78:VAL:CG1	0.40	2.47	12	1
1:A:106:PHE:CD1	1:A:106:PHE:C	0.40	2.99	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:94:TYR:C	1:A:96:GLN:N	0.40	2.79	25	1
1:A:19:LEU:HD13	1:A:52:LEU:HD13	0.40	1.93	18	1
1:A:23:LEU:HD13	1:A:28:LEU:HB2	0.40	1.92	25	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	114/124 (92%)	93±3 (82±2%)	15±3 (13±2%)	6±2 (5±2%)	2	22
All	All	2850/3100 (92%)	2332 (82%)	367 (13%)	151 (5%)	2	22

All 16 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	82	THR	24
1	A	47	THR	21
1	A	84	HIS	18
1	A	55	ILE	14
1	A	86	ASP	14
1	A	85	SER	11
1	A	50	VAL	7
1	A	34	GLU	7
1	A	46	LYS	6
1	A	101	TYR	6
1	A	35	ASN	5
1	A	10	ASP	5
1	A	11	ASP	5
1	A	27	GLY	3
1	A	3	ARG	3
1	A	83	ALA	2

6.3.2 Protein sidechains ⓘ

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	93/102 (91%)	71±3 (76±3%)	22±3 (24±3%)	2	26
All	All	2325/2550 (91%)	1769 (76%)	556 (24%)	2	26

All 56 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	13	SER	25
1	A	46	LYS	25
1	A	51	LEU	25
1	A	28	LEU	24
1	A	47	THR	24
1	A	40	LEU	23
1	A	63	LEU	22
1	A	66	LEU	22
1	A	12	ASP	18
1	A	104	LYS	18
1	A	20	GLU	16
1	A	82	THR	16
1	A	86	ASP	16
1	A	11	ASP	15
1	A	3	ARG	14
1	A	70	LYS	14
1	A	75	MET	14
1	A	65	LEU	13
1	A	67	LYS	13
1	A	110	GLU	13
1	A	72	ARG	12
1	A	87	LEU	12
1	A	88	ASP	11
1	A	49	ASP	9
1	A	71	GLN	9
1	A	85	SER	9
1	A	52	LEU	8
1	A	81	MET	8
1	A	68	GLN	8

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Mol	Chain	Res	Type	Models (Total)
1	A	95	GLN	7
1	A	14	SER	7
1	A	18	VAL	7
1	A	35	ASN	7
1	A	102	LEU	7
1	A	34	GLU	6
1	A	116	GLU	6
1	A	30	CYS	6
1	A	38	GLU	6
1	A	117	ARG	5
1	A	45	SER	4
1	A	92	SER	4
1	A	109	ASP	4
1	A	16	ARG	3
1	A	10	ASP	3
1	A	84	HIS	3
1	A	43	LEU	2
1	A	53	SER	2
1	A	19	LEU	2
1	A	107	ASP	2
1	A	37	ASN	1
1	A	21	ARG	1
1	A	101	TYR	1
1	A	100	ASP	1
1	A	114	LEU	1
1	A	54	ASP	1
1	A	120	SER	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.6 Ligand geometry

There are no ligands in this entry.

6.7 Other polymers

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 94% for the well-defined parts and 93% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

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

Total number of shifts	1557
Number of shifts mapped to atoms	1557
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	2

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	124	-0.01 ± 0.15	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	117	0.11 ± 0.06	None needed (< 0.5 ppm)
$^{13}\text{C}'$	109	0.09 ± 0.09	None needed (< 0.5 ppm)
^{15}N	114	0.07 ± 0.35	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 94%, i.e. 1440 atoms were assigned a chemical shift out of a possible 1537. 0 out of 24 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	551/566 (97%)	227/229 (99%)	217/228 (95%)	107/109 (98%)
Sidechain	799/869 (92%)	549/574 (96%)	244/270 (90%)	6/25 (24%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	90/102 (88%)	45/51 (88%)	43/46 (93%)	2/5 (40%)
Overall	1440/1537 (94%)	821/854 (96%)	504/544 (93%)	115/139 (83%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 93%, i.e. 1556 atoms were assigned a chemical shift out of a possible 1674. 0 out of 24 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	592/615 (96%)	245/249 (98%)	233/248 (94%)	114/118 (97%)
Sidechain	874/957 (91%)	600/630 (95%)	266/297 (90%)	8/30 (27%)
Aromatic	90/102 (88%)	45/51 (88%)	43/46 (93%)	2/5 (40%)
Overall	1556/1674 (93%)	890/930 (96%)	542/591 (92%)	124/153 (81%)

7.1.4 Statistically unusual chemical shifts [i](#)

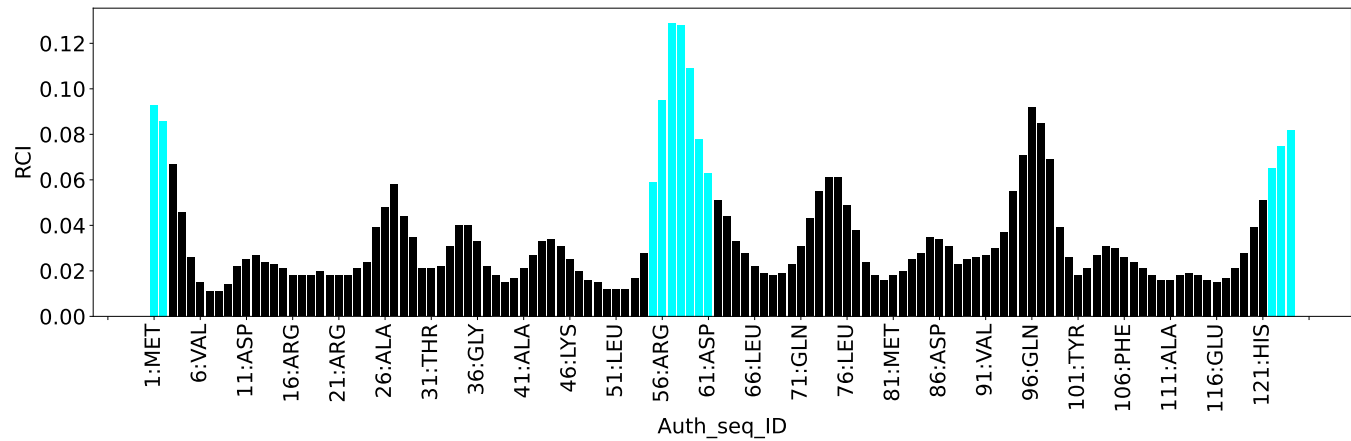
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	48	PRO	HB2	-0.34	0.37 – 3.78	-7.1
1	A	48	PRO	HD3	1.23	1.76 – 5.48	-6.4

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	2353
Intra-residue ($ i-j =0$)	10
Sequential ($ i-j =1$)	821
Medium range ($ i-j >1$ and $ i-j <5$)	641
Long range ($ i-j \geq 5$)	881
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	173
Number of unmapped restraints	0
Number of restraints per residue	20.4
Number of long range restraints per residue ¹	7.1

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	26.0	0.2
0.2-0.5 (Medium)	5.9	0.5
>0.5 (Large)	0.1	0.54

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	21.4	9.69
10.0-20.0 (Medium)	1.8	13.99
>20.0 (Large)	None	None

9 Distance violation analysis ⓘ

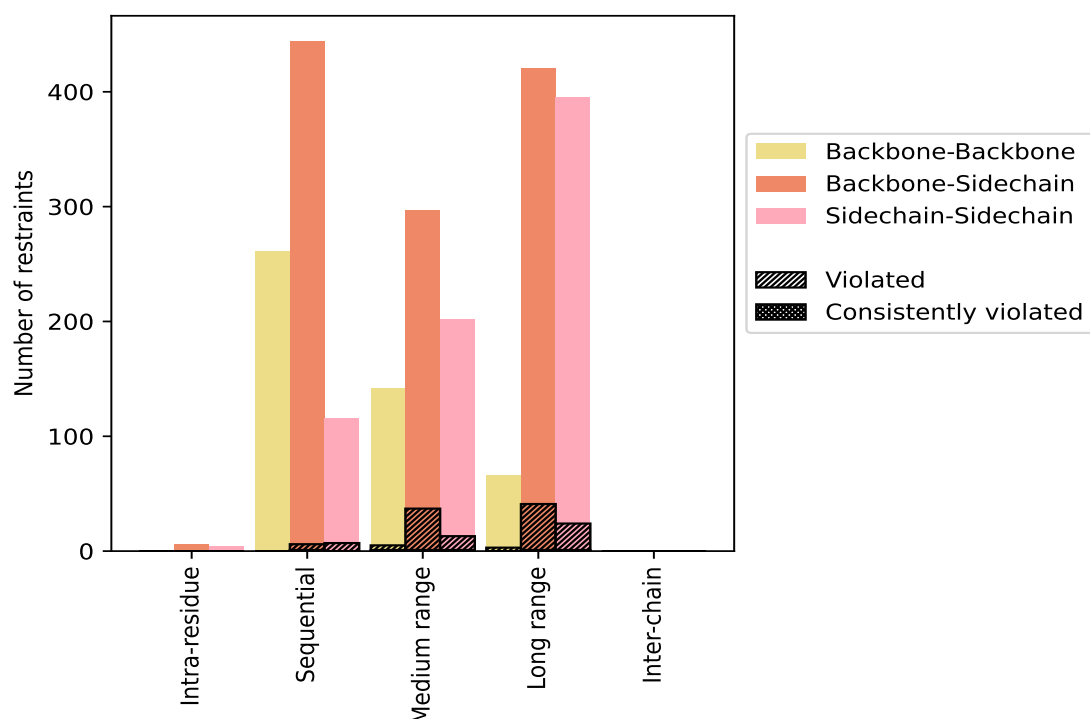
9.1 Summary of distance violations ⓘ

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	10	0.4	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	6	0.3	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	4	0.2	0	0.0	0.0	0	0.0	0.0
Sequential ($i-j =1$)	821	34.9	13	1.6	0.6	1	0.1	0.0
Backbone-Backbone	261	11.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	444	18.9	6	1.4	0.3	1	0.2	0.0
Sidechain-Sidechain	116	4.9	7	6.0	0.3	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	641	27.2	55	8.6	2.3	3	0.5	0.1
Backbone-Backbone	142	6.0	5	3.5	0.2	1	0.7	0.0
Backbone-Sidechain	297	12.6	37	12.5	1.6	1	0.3	0.0
Sidechain-Sidechain	202	8.6	13	6.4	0.6	1	0.5	0.0
Long range ($i-j \geq 5$)	881	37.4	68	7.7	2.9	2	0.2	0.1
Backbone-Backbone	66	2.8	3	4.5	0.1	0	0.0	0.0
Backbone-Sidechain	420	17.8	41	9.8	1.7	1	0.2	0.0
Sidechain-Sidechain	395	16.8	24	6.1	1.0	1	0.3	0.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2353	100.0	136	5.8	5.8	6	0.3	0.3
Backbone-Backbone	469	19.9	8	1.7	0.3	1	0.2	0.0
Backbone-Sidechain	1167	49.6	84	7.2	3.6	3	0.3	0.1
Sidechain-Sidechain	717	30.5	44	6.1	1.9	2	0.3	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 disulfied bonds are counted in their appropriate category on the x-axis

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	0	6	13	13	0	32	0.15	0.46	0.07	0.12
2	0	8	12	10	0	30	0.16	0.47	0.07	0.13
3	0	5	13	16	0	34	0.16	0.35	0.06	0.14
4	0	5	16	9	0	30	0.16	0.31	0.06	0.15
5	0	5	13	13	0	31	0.17	0.46	0.08	0.14
6	0	5	14	15	0	34	0.16	0.33	0.06	0.15
7	0	9	18	14	0	41	0.15	0.5	0.07	0.13
8	0	7	17	13	0	37	0.15	0.33	0.05	0.13
9	0	4	14	10	0	28	0.17	0.31	0.05	0.16
10	0	6	15	14	0	35	0.17	0.46	0.07	0.14

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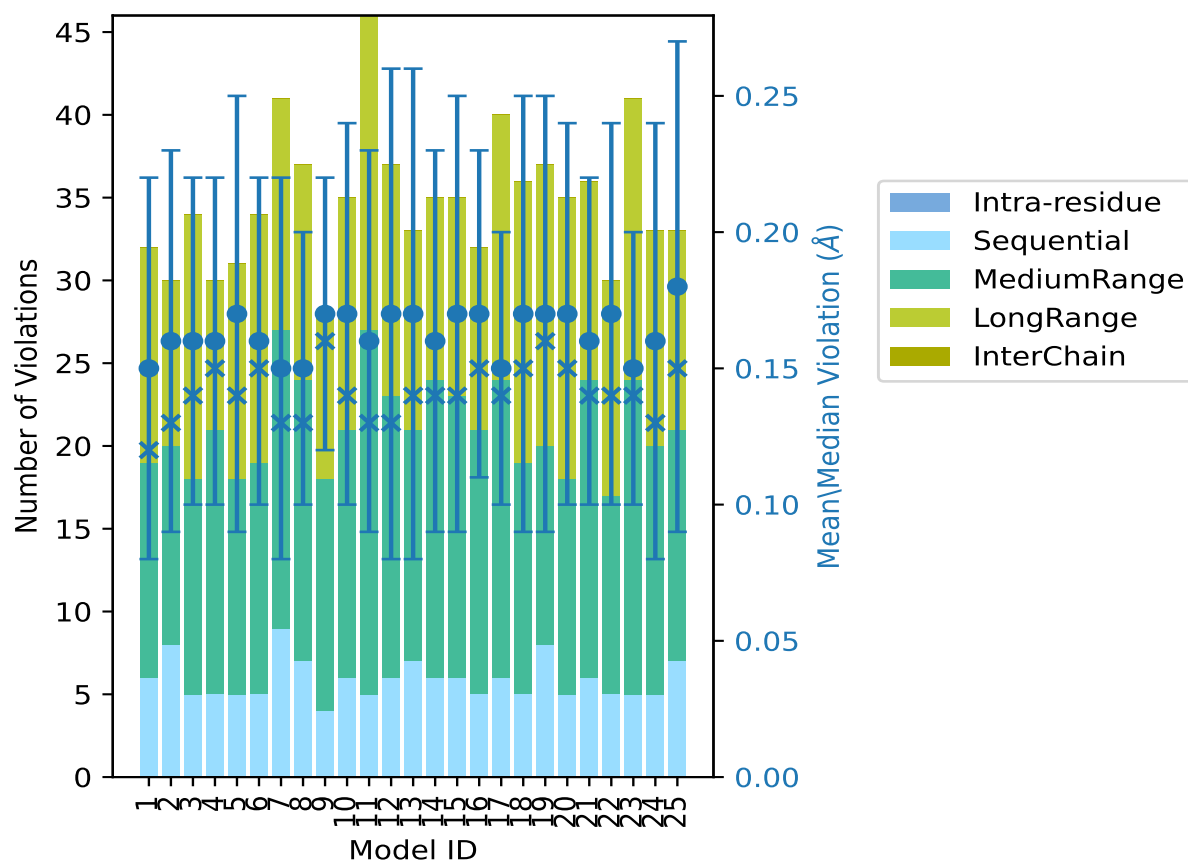
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	0	5	22	19	0	46	0.16	0.46	0.07	0.13
12	0	6	17	14	0	37	0.17	0.5	0.09	0.13
13	0	7	14	12	0	33	0.17	0.51	0.09	0.14
14	0	6	18	11	0	35	0.16	0.46	0.07	0.14
15	0	6	17	12	0	35	0.17	0.45	0.08	0.14
16	0	5	16	11	0	32	0.17	0.33	0.06	0.15
17	0	6	18	16	0	40	0.15	0.31	0.05	0.14
18	0	5	14	17	0	36	0.17	0.48	0.08	0.15
19	0	8	12	17	0	37	0.17	0.5	0.08	0.16
20	0	5	13	17	0	35	0.17	0.47	0.07	0.15
21	0	6	18	12	0	36	0.16	0.34	0.06	0.14
22	0	5	12	13	0	30	0.17	0.45	0.07	0.14
23	0	5	19	17	0	41	0.15	0.35	0.05	0.14
24	0	5	15	13	0	33	0.16	0.49	0.08	0.13
25	0	7	14	12	0	33	0.18	0.54	0.09	0.15

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, 2217(IR:10, SQ:808, MR:586, LR:813, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	2	19	28	0	49	1	4.0
0	0	7	7	0	14	2	8.0
0	1	5	3	0	9	3	12.0
0	0	4	5	0	9	4	16.0
0	0	0	3	0	3	5	20.0
0	1	1	3	0	5	6	24.0

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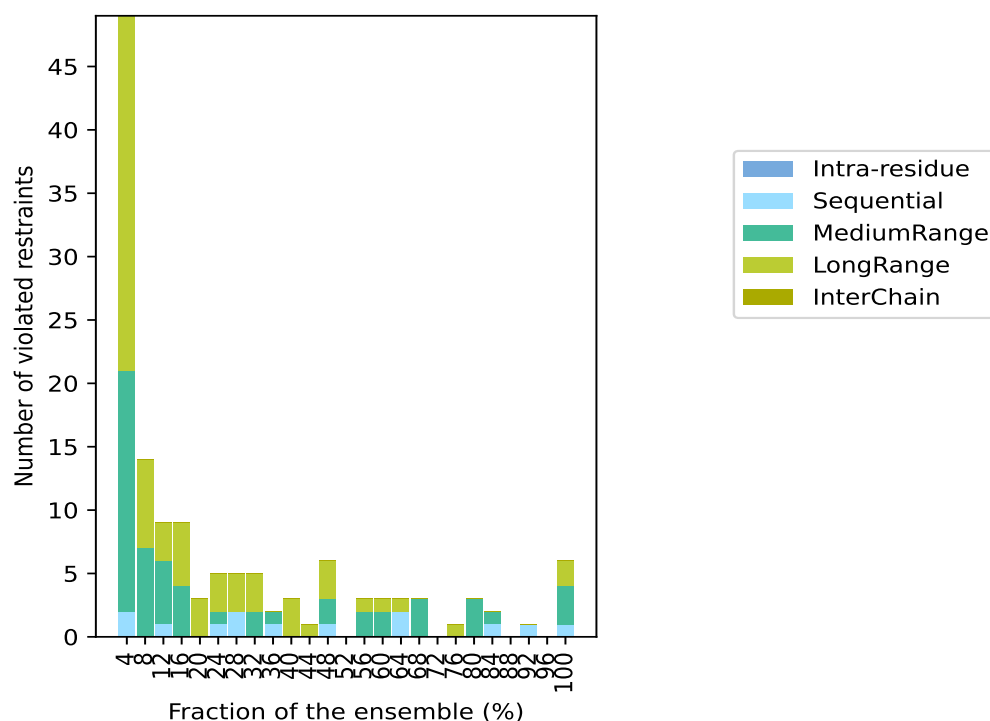
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	2	0	3	0	5	7	28.0
0	0	2	3	0	5	8	32.0
0	1	1	0	0	2	9	36.0
0	0	0	3	0	3	10	40.0
0	0	0	1	0	1	11	44.0
0	1	2	3	0	6	12	48.0
0	0	0	0	0	0	13	52.0
0	0	2	1	0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

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

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

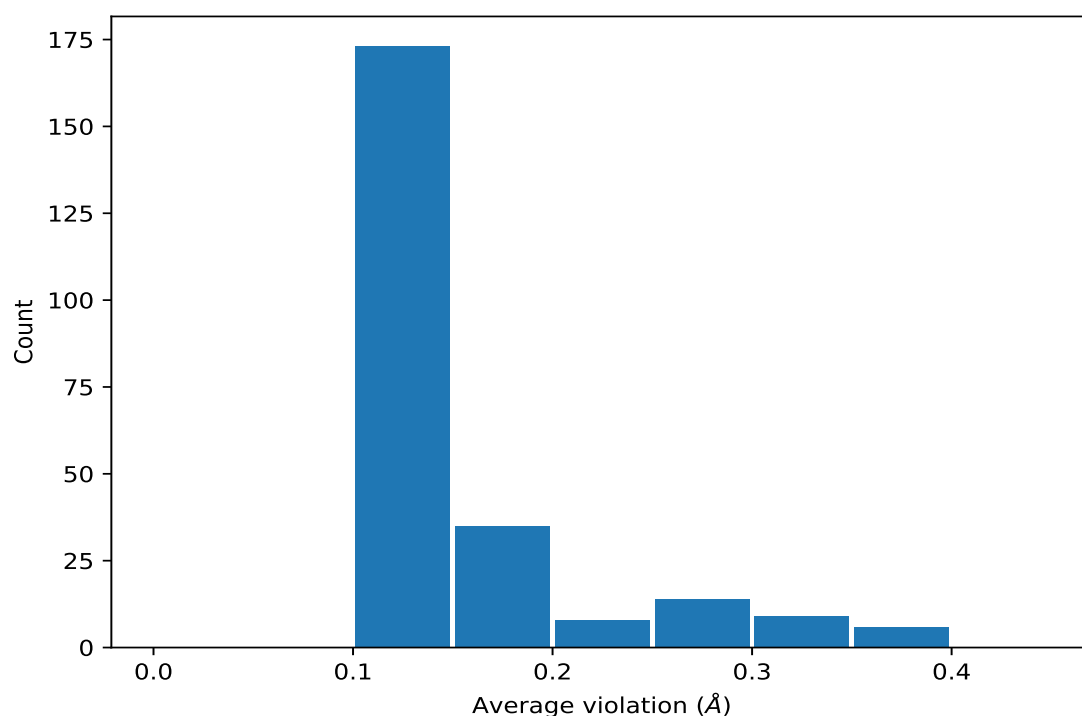
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	25	0.25	0.06	0.26
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	25	0.25	0.06	0.26
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	25	0.25	0.06	0.26
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	25	0.25	0.06	0.26
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	25	0.25	0.06	0.26
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	25	0.25	0.06	0.26
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	25	0.18	0.02	0.18
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	25	0.18	0.03	0.17
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	25	0.18	0.03	0.17
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	25	0.18	0.03	0.17
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	25	0.18	0.03	0.17
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	25	0.17	0.05	0.16
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	25	0.17	0.05	0.16
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	25	0.17	0.05	0.16
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	25	0.17	0.05	0.16
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	25	0.17	0.05	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	25	0.17	0.05	0.16
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	25	0.15	0.01	0.15
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	25	0.15	0.01	0.15
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	25	0.15	0.01	0.15
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	23	0.14	0.02	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	23	0.14	0.02	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	23	0.14	0.02	0.14
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	21	0.17	0.05	0.16
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	21	0.17	0.05	0.16
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	21	0.17	0.05	0.16
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	21	0.14	0.02	0.13
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	21	0.14	0.02	0.13
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	21	0.14	0.02	0.13
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	20	0.26	0.03	0.26
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	20	0.26	0.03	0.26
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	20	0.23	0.08	0.22
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	20	0.23	0.08	0.22
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	20	0.14	0.03	0.13
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	20	0.14	0.03	0.13
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	19	0.12	0.02	0.12
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	17	0.15	0.04	0.14
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	17	0.13	0.02	0.12
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	17	0.13	0.02	0.12
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	17	0.13	0.02	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	17	0.13	0.01	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	17	0.13	0.01	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	17	0.13	0.01	0.12
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	16	0.39	0.12	0.46
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	16	0.39	0.12	0.46
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	16	0.39	0.12	0.46
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	16	0.39	0.12	0.46
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	16	0.39	0.12	0.46
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	16	0.39	0.12	0.46
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	16	0.34	0.1	0.3
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	16	0.34	0.1	0.3
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	16	0.34	0.1	0.3
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	16	0.16	0.04	0.15
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	16	0.16	0.04	0.15
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	16	0.16	0.04	0.15
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	16	0.16	0.04	0.15
(1,1671)	1:82:A:THR:HG21	1:90:A:ALA:HA	15	0.16	0.04	0.15
(1,1671)	1:82:A:THR:HG22	1:90:A:ALA:HA	15	0.16	0.04	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1671)	1:82:A:THR:HG23	1:90:A:ALA:HA	15	0.16	0.04	0.15
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD11	15	0.15	0.02	0.14
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD12	15	0.15	0.02	0.14
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD13	15	0.15	0.02	0.14
(1,2019)	1:108:A:ILE:HG12	1:112:A:VAL:HB	15	0.12	0.01	0.12
(1,2019)	1:108:A:ILE:HG13	1:112:A:VAL:HB	15	0.12	0.01	0.12
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB2	14	0.35	0.06	0.34
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB3	14	0.35	0.06	0.34
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB2	14	0.35	0.06	0.34
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB3	14	0.35	0.06	0.34
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB2	14	0.35	0.06	0.34
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB3	14	0.35	0.06	0.34
(1,638)	1:20:A:GLU:HB2	1:32:A:THR:HA	14	0.13	0.03	0.12
(1,638)	1:20:A:GLU:HB3	1:32:A:THR:HA	14	0.13	0.03	0.12
(1,992)	1:43:A:LEU:HD11	1:47:A:THR:HB	14	0.12	0.01	0.12
(1,992)	1:43:A:LEU:HD12	1:47:A:THR:HB	14	0.12	0.01	0.12
(1,992)	1:43:A:LEU:HD13	1:47:A:THR:HB	14	0.12	0.01	0.12
(2,40)	1:18:A:VAL:HG11	1:19:A:LEU:HG	12	0.16	0.04	0.16
(2,40)	1:18:A:VAL:HG12	1:19:A:LEU:HG	12	0.16	0.04	0.16
(2,40)	1:18:A:VAL:HG13	1:19:A:LEU:HG	12	0.16	0.04	0.16
(1,1668)	1:82:A:THR:HG21	1:85:A:SER:HA	12	0.15	0.03	0.15
(1,1668)	1:82:A:THR:HG22	1:85:A:SER:HA	12	0.15	0.03	0.15
(1,1668)	1:82:A:THR:HG23	1:85:A:SER:HA	12	0.15	0.03	0.15
(1,346)	1:9:A:VAL:HG11	1:11:A:ASP:H	12	0.13	0.03	0.13
(1,346)	1:9:A:VAL:HG12	1:11:A:ASP:H	12	0.13	0.03	0.13
(1,346)	1:9:A:VAL:HG13	1:11:A:ASP:H	12	0.13	0.03	0.13
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE1	12	0.13	0.02	0.12
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE2	12	0.13	0.02	0.12
(1,1769)	1:90:A:ALA:HB1	1:101:A:TYR:HA	12	0.13	0.02	0.12
(1,1769)	1:90:A:ALA:HB2	1:101:A:TYR:HA	12	0.13	0.02	0.12
(1,1769)	1:90:A:ALA:HB3	1:101:A:TYR:HA	12	0.13	0.02	0.12
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB2	12	0.12	0.01	0.12
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB3	12	0.12	0.01	0.12
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB2	12	0.12	0.01	0.12
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB3	12	0.12	0.01	0.12
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD21	11	0.13	0.03	0.13
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD22	11	0.13	0.03	0.13
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD23	11	0.13	0.03	0.13
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG21	10	0.16	0.03	0.16
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG22	10	0.16	0.03	0.16
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG23	10	0.16	0.03	0.16
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD2	10	0.12	0.02	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD3	10	0.12	0.02	0.12
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB1	10	0.12	0.01	0.12
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB2	10	0.12	0.01	0.12
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB3	10	0.12	0.01	0.12
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG11	9	0.22	0.02	0.21
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG12	9	0.22	0.02	0.21
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG13	9	0.22	0.02	0.21
(1,1662)	1:82:A:THR:HB	1:86:A:ASP:HA	9	0.17	0.01	0.18
(1,1690)	1:84:A:HIS:HD2	1:87:A:LEU:H	8	0.27	0.03	0.26
(1,410)	1:11:A:ASP:HB2	1:55:A:ILE:HA	8	0.14	0.03	0.13
(1,410)	1:11:A:ASP:HB3	1:55:A:ILE:HA	8	0.14	0.03	0.13
(1,923)	1:39:A:VAL:HG21	1:43:A:LEU:H	8	0.14	0.02	0.14
(1,923)	1:39:A:VAL:HG22	1:43:A:LEU:H	8	0.14	0.02	0.14
(1,923)	1:39:A:VAL:HG23	1:43:A:LEU:H	8	0.14	0.02	0.14
(1,397)	1:10:A:ASP:HB2	1:32:A:THR:HB	8	0.13	0.02	0.12
(1,397)	1:10:A:ASP:HB3	1:32:A:THR:HB	8	0.13	0.02	0.12
(1,89)	1:5:A:ILE:HG21	1:51:A:LEU:HA	8	0.12	0.01	0.12
(1,89)	1:5:A:ILE:HG22	1:51:A:LEU:HA	8	0.12	0.01	0.12
(1,89)	1:5:A:ILE:HG23	1:51:A:LEU:HA	8	0.12	0.01	0.12
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB1	7	0.19	0.01	0.19
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB2	7	0.19	0.01	0.19
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB3	7	0.19	0.01	0.19
(1,1789)	1:91:A:VAL:HG11	1:101:A:TYR:HD1	7	0.15	0.03	0.16
(1,1789)	1:91:A:VAL:HG11	1:101:A:TYR:HD2	7	0.15	0.03	0.16
(1,1789)	1:91:A:VAL:HG12	1:101:A:TYR:HD1	7	0.15	0.03	0.16
(1,1789)	1:91:A:VAL:HG12	1:101:A:TYR:HD2	7	0.15	0.03	0.16
(1,1789)	1:91:A:VAL:HG13	1:101:A:TYR:HD1	7	0.15	0.03	0.16
(1,1789)	1:91:A:VAL:HG13	1:101:A:TYR:HD2	7	0.15	0.03	0.16
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG21	7	0.13	0.03	0.12
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG22	7	0.13	0.03	0.12
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG23	7	0.13	0.03	0.12
(1,1900)	1:102:A:LEU:HD11	1:108:A:ILE:HA	7	0.13	0.01	0.13
(1,1900)	1:102:A:LEU:HD12	1:108:A:ILE:HA	7	0.13	0.01	0.13
(1,1900)	1:102:A:LEU:HD13	1:108:A:ILE:HA	7	0.13	0.01	0.13
(1,1837)	1:99:A:PHE:H	1:100:A:ASP:HB2	7	0.11	0.01	0.11
(1,1837)	1:99:A:PHE:H	1:100:A:ASP:HB3	7	0.11	0.01	0.11
(1,401)	1:10:A:ASP:HB2	1:55:A:ILE:HA	6	0.14	0.03	0.14
(1,401)	1:10:A:ASP:HB3	1:55:A:ILE:HA	6	0.14	0.03	0.14
(1,609)	1:19:A:LEU:HD11	1:20:A:GLU:HG2	6	0.13	0.03	0.12
(1,609)	1:19:A:LEU:HD11	1:20:A:GLU:HG3	6	0.13	0.03	0.12
(1,609)	1:19:A:LEU:HD12	1:20:A:GLU:HG2	6	0.13	0.03	0.12
(1,609)	1:19:A:LEU:HD12	1:20:A:GLU:HG3	6	0.13	0.03	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,609)	1:19:A:LEU:HD13	1:20:A:GLU:HG2	6	0.13	0.03	0.12
(1,609)	1:19:A:LEU:HD13	1:20:A:GLU:HG3	6	0.13	0.03	0.12
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG21	6	0.12	0.02	0.12
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG22	6	0.12	0.02	0.12
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG23	6	0.12	0.02	0.12
(1,1651)	1:82:A:THR:H	1:101:A:TYR:HD1	6	0.12	0.02	0.12
(1,1651)	1:82:A:THR:H	1:101:A:TYR:HD2	6	0.12	0.02	0.12
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB1	6	0.11	0.01	0.11
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB2	6	0.11	0.01	0.11
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB3	6	0.11	0.01	0.11
(1,1693)	1:84:A:HIS:HD2	1:104:A:LYS:HB2	5	0.15	0.02	0.15
(1,1693)	1:84:A:HIS:HD2	1:104:A:LYS:HB3	5	0.15	0.02	0.15
(1,152)	1:7:A:TRP:HA	1:33:A:PHE:H	5	0.14	0.02	0.13
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD21	5	0.14	0.03	0.15
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD22	5	0.14	0.03	0.15
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD23	5	0.14	0.03	0.15
(1,1326)	1:64:A:ALA:H	1:67:A:LYS:HD2	4	0.16	0.03	0.16
(1,1326)	1:64:A:ALA:H	1:67:A:LYS:HD3	4	0.16	0.03	0.16
(1,4)	1:2:A:GLN:HA	1:119:A:ILE:HD11	4	0.14	0.02	0.13
(1,4)	1:2:A:GLN:HA	1:119:A:ILE:HD12	4	0.14	0.02	0.13
(1,4)	1:2:A:GLN:HA	1:119:A:ILE:HD13	4	0.14	0.02	0.13
(1,486)	1:15:A:ILE:HD11	1:19:A:LEU:H	4	0.13	0.01	0.13
(1,486)	1:15:A:ILE:HD12	1:19:A:LEU:H	4	0.13	0.01	0.13
(1,486)	1:15:A:ILE:HD13	1:19:A:LEU:H	4	0.13	0.01	0.13
(1,1295)	1:62:A:GLY:H	1:65:A:LEU:HD11	4	0.13	0.02	0.12
(1,1295)	1:62:A:GLY:H	1:65:A:LEU:HD12	4	0.13	0.02	0.12
(1,1295)	1:62:A:GLY:H	1:65:A:LEU:HD13	4	0.13	0.02	0.12
(1,297)	1:8:A:VAL:HA	1:52:A:LEU:HG	4	0.12	0.03	0.11
(1,1559)	1:78:A:VAL:HG21	1:99:A:PHE:HD1	4	0.12	0.03	0.11
(1,1559)	1:78:A:VAL:HG21	1:99:A:PHE:HD2	4	0.12	0.03	0.11
(1,1559)	1:78:A:VAL:HG22	1:99:A:PHE:HD1	4	0.12	0.03	0.11
(1,1559)	1:78:A:VAL:HG22	1:99:A:PHE:HD2	4	0.12	0.03	0.11
(1,1559)	1:78:A:VAL:HG23	1:99:A:PHE:HD1	4	0.12	0.03	0.11
(1,1559)	1:78:A:VAL:HG23	1:99:A:PHE:HD2	4	0.12	0.03	0.11
(1,1692)	1:84:A:HIS:HD2	1:103:A:PRO:HB2	4	0.12	0.01	0.12
(1,1692)	1:84:A:HIS:HD2	1:103:A:PRO:HB3	4	0.12	0.01	0.12
(1,1703)	1:85:A:SER:HA	1:89:A:ALA:HB1	4	0.12	0.01	0.12
(1,1703)	1:85:A:SER:HA	1:89:A:ALA:HB2	4	0.12	0.01	0.12
(1,1703)	1:85:A:SER:HA	1:89:A:ALA:HB3	4	0.12	0.01	0.12
(1,948)	1:40:A:LEU:HD21	1:68:A:GLN:HA	4	0.12	0.0	0.12
(1,948)	1:40:A:LEU:HD22	1:68:A:GLN:HA	4	0.12	0.0	0.12
(1,948)	1:40:A:LEU:HD23	1:68:A:GLN:HA	4	0.12	0.0	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1395)	1:68:A:GLN:HG2	1:72:A:ARG:HA	3	0.25	0.04	0.22
(1,1395)	1:68:A:GLN:HG3	1:72:A:ARG:HA	3	0.25	0.04	0.22
(1,398)	1:10:A:ASP:HB2	1:52:A:LEU:HB2	3	0.14	0.03	0.14
(1,398)	1:10:A:ASP:HB2	1:52:A:LEU:HB3	3	0.14	0.03	0.14
(1,398)	1:10:A:ASP:HB3	1:52:A:LEU:HB2	3	0.14	0.03	0.14
(1,398)	1:10:A:ASP:HB3	1:52:A:LEU:HB3	3	0.14	0.03	0.14
(1,1320)	1:63:A:LEU:HD21	1:67:A:LYS:HA	3	0.14	0.04	0.13
(1,1320)	1:63:A:LEU:HD22	1:67:A:LYS:HA	3	0.14	0.04	0.13
(1,1320)	1:63:A:LEU:HD23	1:67:A:LYS:HA	3	0.14	0.04	0.13
(1,641)	1:20:A:GLU:HG2	1:21:A:ARG:HB2	3	0.11	0.01	0.12
(1,641)	1:20:A:GLU:HG2	1:21:A:ARG:HB3	3	0.11	0.01	0.12
(1,641)	1:20:A:GLU:HG3	1:21:A:ARG:HB2	3	0.11	0.01	0.12
(1,641)	1:20:A:GLU:HG3	1:21:A:ARG:HB3	3	0.11	0.01	0.12
(1,990)	1:43:A:LEU:HD11	1:47:A:THR:H	3	0.11	0.0	0.11
(1,990)	1:43:A:LEU:HD12	1:47:A:THR:H	3	0.11	0.0	0.11
(1,990)	1:43:A:LEU:HD13	1:47:A:THR:H	3	0.11	0.0	0.11
(1,1250)	1:56:A:ARG:HA	1:84:A:HIS:HE1	3	0.11	0.01	0.11
(1,250)	1:7:A:TRP:HZ2	1:42:A:ALA:HA	3	0.11	0.01	0.11
(1,409)	1:11:A:ASP:HB2	1:15:A:ILE:HB	3	0.11	0.01	0.11
(1,409)	1:11:A:ASP:HB3	1:15:A:ILE:HB	3	0.11	0.01	0.11
(1,442)	1:13:A:SER:H	1:17:A:TRP:H	3	0.11	0.01	0.1
(1,1275)	1:60:A:MET:HA	1:63:A:LEU:HD11	2	0.26	0.01	0.26
(1,1275)	1:60:A:MET:HA	1:63:A:LEU:HD12	2	0.26	0.01	0.26
(1,1275)	1:60:A:MET:HA	1:63:A:LEU:HD13	2	0.26	0.01	0.26
(1,1314)	1:63:A:LEU:HD11	1:67:A:LYS:HA	2	0.21	0.0	0.21
(1,1314)	1:63:A:LEU:HD12	1:67:A:LYS:HA	2	0.21	0.0	0.21
(1,1314)	1:63:A:LEU:HD13	1:67:A:LYS:HA	2	0.21	0.0	0.21
(1,530)	1:17:A:TRP:H	1:21:A:ARG:HG2	2	0.16	0.02	0.16
(1,530)	1:17:A:TRP:H	1:21:A:ARG:HG3	2	0.16	0.02	0.16
(1,938)	1:40:A:LEU:HD11	1:68:A:GLN:HA	2	0.13	0.01	0.13
(1,938)	1:40:A:LEU:HD12	1:68:A:GLN:HA	2	0.13	0.01	0.13
(1,938)	1:40:A:LEU:HD13	1:68:A:GLN:HA	2	0.13	0.01	0.13
(1,509)	1:16:A:ARG:H	1:81:A:MET:HE1	2	0.12	0.02	0.12
(1,509)	1:16:A:ARG:H	1:81:A:MET:HE2	2	0.12	0.02	0.12
(1,509)	1:16:A:ARG:H	1:81:A:MET:HE3	2	0.12	0.02	0.12
(1,1555)	1:78:A:VAL:HG11	1:98:A:ALA:HA	2	0.12	0.01	0.12
(1,1555)	1:78:A:VAL:HG12	1:98:A:ALA:HA	2	0.12	0.01	0.12
(1,1555)	1:78:A:VAL:HG13	1:98:A:ALA:HA	2	0.12	0.01	0.12
(1,386)	1:10:A:ASP:H	1:33:A:PHE:HD1	2	0.12	0.0	0.12
(1,386)	1:10:A:ASP:H	1:33:A:PHE:HD2	2	0.12	0.0	0.12
(1,404)	1:11:A:ASP:H	1:34:A:GLU:HB2	2	0.12	0.0	0.12
(1,404)	1:11:A:ASP:H	1:34:A:GLU:HB3	2	0.12	0.0	0.12

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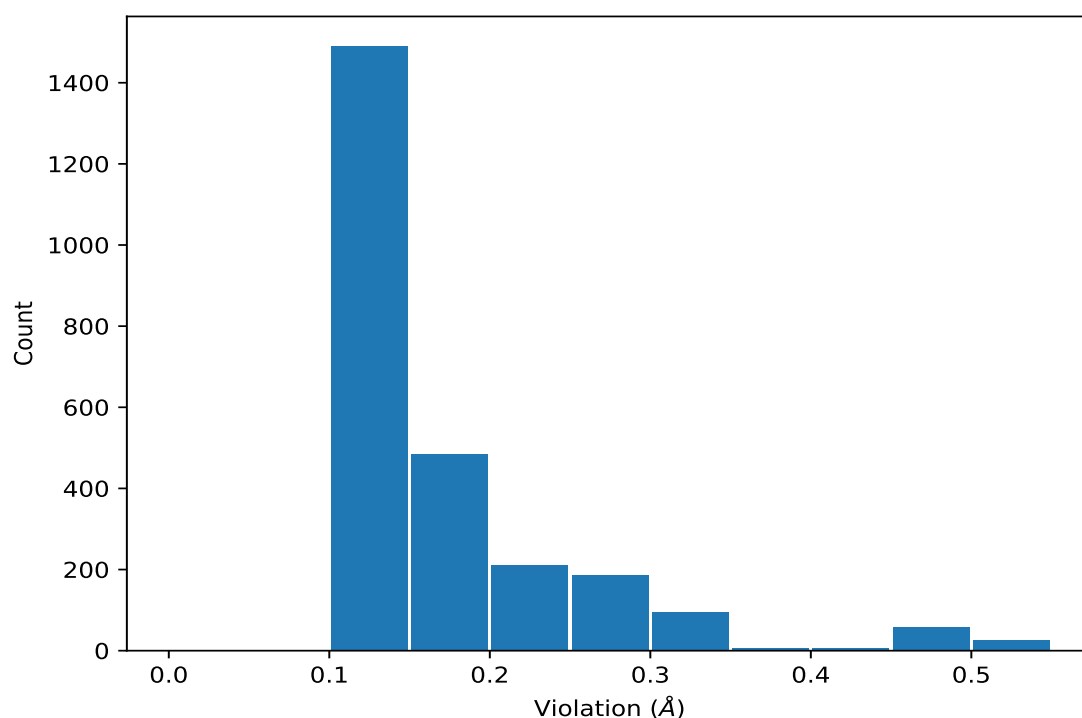
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,586)	1:18:A:VAL:HG21	1:21:A:ARG:HB2	2	0.12	0.0	0.12
(1,586)	1:18:A:VAL:HG21	1:21:A:ARG:HB3	2	0.12	0.0	0.12
(1,586)	1:18:A:VAL:HG22	1:21:A:ARG:HB2	2	0.12	0.0	0.12
(1,586)	1:18:A:VAL:HG22	1:21:A:ARG:HB3	2	0.12	0.0	0.12
(1,586)	1:18:A:VAL:HG23	1:21:A:ARG:HB2	2	0.12	0.0	0.12
(1,586)	1:18:A:VAL:HG23	1:21:A:ARG:HB3	2	0.12	0.0	0.12
(1,1596)	1:80:A:ILE:H	1:82:A:THR:HG21	2	0.12	0.0	0.12
(1,1596)	1:80:A:ILE:H	1:82:A:THR:HG22	2	0.12	0.0	0.12
(1,1596)	1:80:A:ILE:H	1:82:A:THR:HG23	2	0.12	0.0	0.12
(1,691)	1:23:A:LEU:HD21	1:26:A:ALA:HA	2	0.11	0.01	0.11
(1,691)	1:23:A:LEU:HD22	1:26:A:ALA:HA	2	0.11	0.01	0.11
(1,691)	1:23:A:LEU:HD23	1:26:A:ALA:HA	2	0.11	0.01	0.11
(1,728)	1:28:A:LEU:HD11	1:112:A:VAL:HB	2	0.11	0.0	0.11
(1,728)	1:28:A:LEU:HD12	1:112:A:VAL:HB	2	0.11	0.0	0.11
(1,728)	1:28:A:LEU:HD13	1:112:A:VAL:HB	2	0.11	0.0	0.11
(1,13)	1:3:A:ARG:HA	1:5:A:ILE:HD11	2	0.11	0.0	0.11
(1,13)	1:3:A:ARG:HA	1:5:A:ILE:HD12	2	0.11	0.0	0.11
(1,13)	1:3:A:ARG:HA	1:5:A:ILE:HD13	2	0.11	0.0	0.11
(2,32)	1:10:A:ASP:H	1:34:A:GLU:HA	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	25	0.54
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	25	0.54
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	25	0.54
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	25	0.54
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	25	0.54
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	25	0.54
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB2	13	0.51
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB3	13	0.51
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB2	13	0.51
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB3	13	0.51
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB2	13	0.51
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB3	13	0.51
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	12	0.5
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	12	0.5
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	12	0.5
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	12	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	12	0.5
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	12	0.5
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	19	0.5
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	19	0.5
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	19	0.5
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	19	0.5
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	19	0.5
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	19	0.5
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	7	0.5
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	7	0.5
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	7	0.5
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	24	0.49
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	24	0.49
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	24	0.49
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	24	0.49
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	24	0.49
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	24	0.49
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	18	0.48
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	18	0.48
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	18	0.48
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	20	0.47
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	20	0.47
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	20	0.47
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	20	0.47
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	20	0.47
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	20	0.47
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	2	0.47
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	2	0.47
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	2	0.47
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	1	0.46
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	1	0.46
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	1	0.46
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	1	0.46
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	1	0.46
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	1	0.46
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	10	0.46
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	10	0.46
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	10	0.46
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	10	0.46
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	10	0.46
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	10	0.46
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	11	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	11	0.46
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	11	0.46
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	11	0.46
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	11	0.46
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	11	0.46
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	14	0.46
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	14	0.46
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	14	0.46
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	14	0.46
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	14	0.46
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	14	0.46
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	5	0.46
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	5	0.46
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	5	0.46
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	15	0.45
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	15	0.45
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	15	0.45
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	15	0.45
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	15	0.45
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	15	0.45
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	13	0.45
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	13	0.45
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	13	0.45
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	22	0.45
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	22	0.45
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	22	0.45
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB2	12	0.44
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB3	12	0.44
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB2	12	0.44
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB3	12	0.44
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB2	12	0.44
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB3	12	0.44
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	25	0.38
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	25	0.38
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	25	0.38
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	25	0.38
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	25	0.38
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	25	0.38
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB2	3	0.35
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB3	3	0.35
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB2	3	0.35
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB3	3	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB2	3	0.35
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB3	3	0.35
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	23	0.35
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	23	0.35
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB2	5	0.34
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB3	5	0.34
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB2	5	0.34
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB3	5	0.34
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB2	5	0.34
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB3	5	0.34
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB2	14	0.34
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB3	14	0.34
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB2	14	0.34
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB3	14	0.34
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB2	14	0.34
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB3	14	0.34
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB2	19	0.34
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB3	19	0.34
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB2	19	0.34
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB3	19	0.34
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB2	19	0.34
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB3	19	0.34
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB2	21	0.34
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB3	21	0.34
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB2	21	0.34
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB3	21	0.34
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB2	21	0.34
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB3	21	0.34
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB2	24	0.34
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB3	24	0.34
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB2	24	0.34
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB3	24	0.34
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB2	24	0.34
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB3	24	0.34
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB2	6	0.33
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB3	6	0.33
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB2	6	0.33
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB3	6	0.33
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB2	6	0.33
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB3	6	0.33
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB2	8	0.33
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB3	8	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB2	8	0.33
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB3	8	0.33
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB2	8	0.33
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB3	8	0.33
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	12	0.33
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	12	0.33
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	12	0.33
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	12	0.33
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	12	0.33
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	12	0.33
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	15	0.33
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	15	0.33
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	15	0.33
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	15	0.33
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	15	0.33
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	15	0.33
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	16	0.33
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	16	0.33
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	16	0.33
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	16	0.33
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	16	0.33
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	16	0.33
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	3	0.33
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	3	0.33
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	6	0.33
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	6	0.33
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB2	23	0.32
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB3	23	0.32
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB2	23	0.32
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB3	23	0.32
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB2	23	0.32
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB3	23	0.32
(1,1690)	1:84:A:HIS:HD2	1:87:A:LEU:H	11	0.32
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB2	18	0.31
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB3	18	0.31
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB2	18	0.31
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB3	18	0.31
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB2	18	0.31
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB3	18	0.31
(1,1690)	1:84:A:HIS:HD2	1:87:A:LEU:H	17	0.31
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	18	0.31
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	18	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	18	0.31
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	19	0.31
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	19	0.31
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	19	0.31
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	4	0.31
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	4	0.31
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	9	0.31
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	9	0.31
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB2	20	0.3
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB3	20	0.3
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB2	20	0.3
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB3	20	0.3
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB2	20	0.3
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB3	20	0.3
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	4	0.3
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	4	0.3
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	9	0.3
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	9	0.3
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	25	0.3
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	25	0.3
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	25	0.3
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	25	0.3
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	25	0.3
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	25	0.3
(1,1395)	1:68:A:GLN:HG2	1:72:A:ARG:HA	15	0.3
(1,1395)	1:68:A:GLN:HG3	1:72:A:ARG:HA	15	0.3
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	24	0.3
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	24	0.3
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	24	0.3
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	16	0.3
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	16	0.3
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	12	0.29
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	12	0.29
(1,1690)	1:84:A:HIS:HD2	1:87:A:LEU:H	16	0.29
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	12	0.29
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	12	0.29
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	12	0.29
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	12	0.29
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	17	0.29
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	17	0.29
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	17	0.29
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	17	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	17	0.29
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	17	0.29
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	22	0.29
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	22	0.29
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	22	0.29
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	22	0.29
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	22	0.29
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	22	0.29
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	19	0.29
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	20	0.29
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	20	0.29
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	20	0.29
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	25	0.29
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	2	0.28
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	2	0.28
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	6	0.28
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	6	0.28
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	7	0.28
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	7	0.28
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	2	0.28
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	2	0.28
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	2	0.28
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	2	0.28
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	2	0.28
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	2	0.28
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	7	0.28
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	7	0.28
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	7	0.28
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	7	0.28
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	7	0.28
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	7	0.28
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	10	0.28
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	10	0.28
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	10	0.28
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	15	0.28
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	15	0.28
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	15	0.28
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	17	0.28
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	17	0.28
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	8	0.27
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	8	0.27
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	11	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	11	0.27
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	22	0.27
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	22	0.27
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	3	0.27
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	3	0.27
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	3	0.27
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	3	0.27
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	3	0.27
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	3	0.27
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	10	0.27
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	10	0.27
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	10	0.27
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	10	0.27
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	10	0.27
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	10	0.27
(1,1275)	1:60:A:MET:HA	1:63:A:LEU:HD11	14	0.27
(1,1275)	1:60:A:MET:HA	1:63:A:LEU:HD12	14	0.27
(1,1275)	1:60:A:MET:HA	1:63:A:LEU:HD13	14	0.27
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	5	0.26
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	5	0.26
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	5	0.26
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	5	0.26
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	5	0.26
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	5	0.26
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	18	0.26
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	18	0.26
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	18	0.26
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	18	0.26
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	18	0.26
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	18	0.26
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	5	0.26
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	5	0.26
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	19	0.26
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	19	0.26
(1,1690)	1:84:A:HIS:HD2	1:87:A:LEU:H	4	0.26
(1,1690)	1:84:A:HIS:HD2	1:87:A:LEU:H	10	0.26
(1,1690)	1:84:A:HIS:HD2	1:87:A:LEU:H	25	0.26
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	1	0.26
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	1	0.26
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	1	0.26
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	1	0.26
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	1	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	1	0.26
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	20	0.26
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	20	0.26
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	20	0.26
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	20	0.26
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	20	0.26
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	20	0.26
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	21	0.26
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	21	0.26
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	21	0.26
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	21	0.26
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	21	0.26
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	21	0.26
(1,1312)	1:63:A:LEU:HB2	1:67:A:LYS:HA	18	0.26
(1,1312)	1:63:A:LEU:HB3	1:67:A:LYS:HA	18	0.26
(1,1275)	1:60:A:MET:HA	1:63:A:LEU:HD11	24	0.26
(1,1275)	1:60:A:MET:HA	1:63:A:LEU:HD12	24	0.26
(1,1275)	1:60:A:MET:HA	1:63:A:LEU:HD13	24	0.26
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	11	0.26
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	11	0.26
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	11	0.26
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	21	0.26
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	21	0.26
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB2	1	0.25
(2,124)	1:83:A:ALA:HB1	1:86:A:ASP:HB3	1	0.25
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB2	1	0.25
(2,124)	1:83:A:ALA:HB2	1:86:A:ASP:HB3	1	0.25
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB2	1	0.25
(2,124)	1:83:A:ALA:HB3	1:86:A:ASP:HB3	1	0.25
(2,40)	1:18:A:VAL:HG11	1:19:A:LEU:HG	25	0.25
(2,40)	1:18:A:VAL:HG12	1:19:A:LEU:HG	25	0.25
(2,40)	1:18:A:VAL:HG13	1:19:A:LEU:HG	25	0.25
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	2	0.25
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	2	0.25
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	2	0.25
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	2	0.25
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	2	0.25
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	2	0.25
(1,1821)	1:94:A:TYR:HD1	1:95:A:GLN:HG2	25	0.25
(1,1821)	1:94:A:TYR:HD1	1:95:A:GLN:HG3	25	0.25
(1,1821)	1:94:A:TYR:HD2	1:95:A:GLN:HG2	25	0.25
(1,1821)	1:94:A:TYR:HD2	1:95:A:GLN:HG3	25	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	1	0.25
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	1	0.25
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	3	0.25
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	3	0.25
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	16	0.25
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	16	0.25
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	17	0.25
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	17	0.25
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	21	0.25
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	21	0.25
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	18	0.25
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	18	0.25
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	18	0.25
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	18	0.25
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	18	0.25
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	18	0.25
(1,1671)	1:82:A:THR:HG21	1:90:A:ALA:HA	13	0.25
(1,1671)	1:82:A:THR:HG22	1:90:A:ALA:HA	13	0.25
(1,1671)	1:82:A:THR:HG23	1:90:A:ALA:HA	13	0.25
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	12	0.25
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	12	0.25
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	12	0.25
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG11	9	0.25
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG12	9	0.25
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG13	9	0.25
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	7	0.24
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	7	0.24
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	7	0.24
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	7	0.24
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	7	0.24
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	7	0.24
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	22	0.24
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	22	0.24
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	22	0.24
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	22	0.24
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	22	0.24
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	22	0.24
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	10	0.24
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	10	0.24
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	24	0.24
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	24	0.24
(1,1690)	1:84:A:HIS:HD2	1:87:A:LEU:H	15	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	4	0.24
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	4	0.24
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	4	0.24
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	4	0.24
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	4	0.24
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	4	0.24
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	11	0.24
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	11	0.24
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	11	0.24
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	11	0.24
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	11	0.24
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	11	0.24
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	13	0.24
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	13	0.24
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	13	0.24
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	13	0.24
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	13	0.24
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	13	0.24
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	11	0.24
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	11	0.24
(2,40)	1:18:A:VAL:HG11	1:19:A:LEU:HG	19	0.23
(2,40)	1:18:A:VAL:HG12	1:19:A:LEU:HG	19	0.23
(2,40)	1:18:A:VAL:HG13	1:19:A:LEU:HG	19	0.23
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	5	0.23
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	5	0.23
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	5	0.23
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	5	0.23
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	5	0.23
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	5	0.23
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	22	0.23
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	22	0.23
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	22	0.23
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	22	0.23
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	22	0.23
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	22	0.23
(1,1690)	1:84:A:HIS:HD2	1:87:A:LEU:H	9	0.23
(1,1668)	1:82:A:THR:HG21	1:85:A:SER:HA	13	0.23
(1,1668)	1:82:A:THR:HG22	1:85:A:SER:HA	13	0.23
(1,1668)	1:82:A:THR:HG23	1:85:A:SER:HA	13	0.23
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	14	0.23
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	14	0.23
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	14	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	14	0.23
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	14	0.23
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	14	0.23
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	23	0.23
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	23	0.23
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	23	0.23
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	23	0.23
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	23	0.23
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	23	0.23
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	21	0.23
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	21	0.23
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	21	0.23
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	12	0.23
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	12	0.23
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	12	0.23
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	15	0.23
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	15	0.23
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	15	0.23
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	16	0.23
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	16	0.23
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	16	0.23
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	18	0.23
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	18	0.23
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	18	0.23
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	25	0.23
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	25	0.23
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	25	0.23
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG11	8	0.23
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG12	8	0.23
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG13	8	0.23
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG11	21	0.23
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG12	21	0.23
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG13	21	0.23
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB2	13	0.22
(2,39)	1:18:A:VAL:HG11	1:19:A:LEU:HB3	13	0.22
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB2	13	0.22
(2,39)	1:18:A:VAL:HG12	1:19:A:LEU:HB3	13	0.22
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB2	13	0.22
(2,39)	1:18:A:VAL:HG13	1:19:A:LEU:HB3	13	0.22
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	17	0.22
(1,1871)	1:101:A:TYR:H	1:114:A:LEU:HD11	19	0.22
(1,1871)	1:101:A:TYR:H	1:114:A:LEU:HD12	19	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1871)	1:101:A:TYR:H	1:114:A:LEU:HD13	19	0.22
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	24	0.22
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	24	0.22
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	24	0.22
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	24	0.22
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	24	0.22
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	24	0.22
(1,1671)	1:82:A:THR:HG21	1:90:A:ALA:HA	18	0.22
(1,1671)	1:82:A:THR:HG22	1:90:A:ALA:HA	18	0.22
(1,1671)	1:82:A:THR:HG23	1:90:A:ALA:HA	18	0.22
(1,1395)	1:68:A:GLN:HG2	1:72:A:ARG:HA	19	0.22
(1,1395)	1:68:A:GLN:HG3	1:72:A:ARG:HA	19	0.22
(1,1395)	1:68:A:GLN:HG2	1:72:A:ARG:HA	20	0.22
(1,1395)	1:68:A:GLN:HG3	1:72:A:ARG:HA	20	0.22
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	5	0.22
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	5	0.22
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	5	0.22
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	20	0.22
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	21	0.22
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	21	0.22
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	21	0.22
(1,638)	1:20:A:GLU:HB2	1:32:A:THR:HA	23	0.22
(1,638)	1:20:A:GLU:HB3	1:32:A:THR:HA	23	0.22
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	14	0.22
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	14	0.22
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	14	0.22
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	7	0.22
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	7	0.22
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	8	0.22
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	8	0.22
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG11	16	0.22
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG12	16	0.22
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG13	16	0.22
(1,21)	1:3:A:ARG:HD2	1:5:A:ILE:HA	11	0.22
(1,21)	1:3:A:ARG:HD3	1:5:A:ILE:HA	11	0.22
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	23	0.21
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	20	0.21
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	20	0.21
(1,1671)	1:82:A:THR:HG21	1:90:A:ALA:HA	5	0.21
(1,1671)	1:82:A:THR:HG22	1:90:A:ALA:HA	5	0.21
(1,1671)	1:82:A:THR:HG23	1:90:A:ALA:HA	5	0.21
(1,1314)	1:63:A:LEU:HD11	1:67:A:LYS:HA	14	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1314)	1:63:A:LEU:HD12	1:67:A:LYS:HA	14	0.21
(1,1314)	1:63:A:LEU:HD13	1:67:A:LYS:HA	14	0.21
(1,1314)	1:63:A:LEU:HD11	1:67:A:LYS:HA	24	0.21
(1,1314)	1:63:A:LEU:HD12	1:67:A:LYS:HA	24	0.21
(1,1314)	1:63:A:LEU:HD13	1:67:A:LYS:HA	24	0.21
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	16	0.21
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	17	0.21
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	22	0.21
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	22	0.21
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	22	0.21
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG11	3	0.21
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG12	3	0.21
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG13	3	0.21
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG11	17	0.21
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG12	17	0.21
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG13	17	0.21
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG11	23	0.21
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG12	23	0.21
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG13	23	0.21
(1,191)	1:7:A:TRP:HD1	1:46:A:LYS:HE2	20	0.21
(1,191)	1:7:A:TRP:HD1	1:46:A:LYS:HE3	20	0.21
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG21	15	0.21
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG22	15	0.21
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG23	15	0.21
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB1	8	0.2
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB2	8	0.2
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB3	8	0.2
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	3	0.2
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	10	0.2
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	25	0.2
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	15	0.2
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	15	0.2
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG2	18	0.2
(1,1810)	1:93:A:ALA:HA	1:95:A:GLN:HG3	18	0.2
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	20	0.2
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	20	0.2
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	20	0.2
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	20	0.2
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	20	0.2
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	20	0.2
(1,1671)	1:82:A:THR:HG21	1:90:A:ALA:HA	23	0.2
(1,1671)	1:82:A:THR:HG22	1:90:A:ALA:HA	23	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1671)	1:82:A:THR:HG23	1:90:A:ALA:HA	23	0.2
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	9	0.2
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	9	0.2
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	9	0.2
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	9	0.2
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	9	0.2
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	9	0.2
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	4	0.2
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	4	0.2
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	4	0.2
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	19	0.2
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	19	0.2
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	19	0.2
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD21	10	0.2
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD22	10	0.2
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD23	10	0.2
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG21	1	0.2
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG22	1	0.2
(1,561)	1:17:A:TRP:HH2	1:18:A:VAL:HG23	1	0.2
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	10	0.2
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	10	0.2
(1,410)	1:11:A:ASP:HB2	1:55:A:ILE:HA	20	0.2
(1,410)	1:11:A:ASP:HB3	1:55:A:ILE:HA	20	0.2
(1,346)	1:9:A:VAL:HG11	1:11:A:ASP:H	3	0.2
(1,346)	1:9:A:VAL:HG12	1:11:A:ASP:H	3	0.2
(1,346)	1:9:A:VAL:HG13	1:11:A:ASP:H	3	0.2
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB1	6	0.19
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB2	6	0.19
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB3	6	0.19
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB1	21	0.19
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB2	21	0.19
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB3	21	0.19
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB1	24	0.19
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB2	24	0.19
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB3	24	0.19
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	7	0.19
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	13	0.19
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	1	0.19
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	1	0.19
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	1	0.19
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	1	0.19
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	1	0.19
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	9	0.19
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	9	0.19
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	9	0.19
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	9	0.19
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	9	0.19
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	9	0.19
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	13	0.19
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	13	0.19
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	13	0.19
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	13	0.19
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	13	0.19
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	13	0.19
(1,1789)	1:91:A:VAL:HG11	1:101:A:TYR:HD1	12	0.19
(1,1789)	1:91:A:VAL:HG11	1:101:A:TYR:HD2	12	0.19
(1,1789)	1:91:A:VAL:HG12	1:101:A:TYR:HD1	12	0.19
(1,1789)	1:91:A:VAL:HG12	1:101:A:TYR:HD2	12	0.19
(1,1789)	1:91:A:VAL:HG13	1:101:A:TYR:HD1	12	0.19
(1,1789)	1:91:A:VAL:HG13	1:101:A:TYR:HD2	12	0.19
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD11	23	0.19
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD12	23	0.19
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD13	23	0.19
(1,1693)	1:84:A:HIS:HD2	1:104:A:LYS:HB2	16	0.19
(1,1693)	1:84:A:HIS:HD2	1:104:A:LYS:HB3	16	0.19
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	3	0.19
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	3	0.19
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	3	0.19
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	3	0.19
(1,1671)	1:82:A:THR:HG21	1:90:A:ALA:HA	14	0.19
(1,1671)	1:82:A:THR:HG22	1:90:A:ALA:HA	14	0.19
(1,1671)	1:82:A:THR:HG23	1:90:A:ALA:HA	14	0.19
(1,1662)	1:82:A:THR:HB	1:86:A:ASP:HA	16	0.19
(1,1662)	1:82:A:THR:HB	1:86:A:ASP:HA	25	0.19
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	5	0.19
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	5	0.19
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	5	0.19
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	5	0.19
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	5	0.19
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	5	0.19
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	6	0.19
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	6	0.19
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	6	0.19
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	6	0.19
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	6	0.19
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	8	0.19
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	8	0.19
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	8	0.19
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	8	0.19
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	8	0.19
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	8	0.19
(1,1326)	1:64:A:ALA:H	1:67:A:LYS:HD2	18	0.19
(1,1326)	1:64:A:ALA:H	1:67:A:LYS:HD3	18	0.19
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	3	0.19
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	3	0.19
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	3	0.19
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	17	0.19
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	17	0.19
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	17	0.19
(1,1320)	1:63:A:LEU:HD21	1:67:A:LYS:HA	20	0.19
(1,1320)	1:63:A:LEU:HD22	1:67:A:LYS:HA	20	0.19
(1,1320)	1:63:A:LEU:HD23	1:67:A:LYS:HA	20	0.19
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	12	0.19
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	24	0.19
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	4	0.19
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	4	0.19
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	4	0.19
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	9	0.19
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	9	0.19
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	9	0.19
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE1	3	0.19
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE2	3	0.19
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	12	0.19
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	12	0.19
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG11	4	0.19
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG12	4	0.19
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG13	4	0.19
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG11	6	0.19
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG12	6	0.19
(1,548)	1:17:A:TRP:HD1	1:18:A:VAL:HG13	6	0.19
(1,28)	1:3:A:ARG:HG2	1:5:A:ILE:H	13	0.19
(1,28)	1:3:A:ARG:HG3	1:5:A:ILE:H	13	0.19
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB1	14	0.18
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB2	14	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB3	14	0.18
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB1	19	0.18
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB2	19	0.18
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB3	19	0.18
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB1	23	0.18
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB2	23	0.18
(2,120)	1:82:A:THR:HA	1:83:A:ALA:HB3	23	0.18
(2,40)	1:18:A:VAL:HG11	1:19:A:LEU:HG	15	0.18
(2,40)	1:18:A:VAL:HG12	1:19:A:LEU:HG	15	0.18
(2,40)	1:18:A:VAL:HG13	1:19:A:LEU:HG	15	0.18
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	25	0.18
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	25	0.18
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	25	0.18
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	2	0.18
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	4	0.18
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	5	0.18
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	8	0.18
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	11	0.18
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	14	0.18
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	15	0.18
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	16	0.18
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	19	0.18
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	22	0.18
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	4	0.18
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	4	0.18
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	16	0.18
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	16	0.18
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	5	0.18
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	5	0.18
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	5	0.18
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	5	0.18
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	18	0.18
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	18	0.18
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	18	0.18
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	18	0.18
(1,1668)	1:82:A:THR:HG21	1:85:A:SER:HA	16	0.18
(1,1668)	1:82:A:THR:HG22	1:85:A:SER:HA	16	0.18
(1,1668)	1:82:A:THR:HG23	1:85:A:SER:HA	16	0.18
(1,1668)	1:82:A:THR:HG21	1:85:A:SER:HA	25	0.18
(1,1668)	1:82:A:THR:HG22	1:85:A:SER:HA	25	0.18
(1,1668)	1:82:A:THR:HG23	1:85:A:SER:HA	25	0.18
(1,1662)	1:82:A:THR:HB	1:86:A:ASP:HA	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1662)	1:82:A:THR:HB	1:86:A:ASP:HA	10	0.18
(1,1662)	1:82:A:THR:HB	1:86:A:ASP:HA	15	0.18
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	10	0.18
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	10	0.18
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	10	0.18
(1,923)	1:39:A:VAL:HG21	1:43:A:LEU:H	11	0.18
(1,923)	1:39:A:VAL:HG22	1:43:A:LEU:H	11	0.18
(1,923)	1:39:A:VAL:HG23	1:43:A:LEU:H	11	0.18
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	3	0.18
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	10	0.18
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	11	0.18
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	18	0.18
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	24	0.18
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	24	0.18
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	24	0.18
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	1	0.18
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	1	0.18
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	1	0.18
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	8	0.18
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	8	0.18
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	8	0.18
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	10	0.18
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	10	0.18
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	10	0.18
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	23	0.18
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	23	0.18
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	23	0.18
(1,609)	1:19:A:LEU:HD11	1:20:A:GLU:HG2	9	0.18
(1,609)	1:19:A:LEU:HD11	1:20:A:GLU:HG3	9	0.18
(1,609)	1:19:A:LEU:HD12	1:20:A:GLU:HG2	9	0.18
(1,609)	1:19:A:LEU:HD12	1:20:A:GLU:HG3	9	0.18
(1,609)	1:19:A:LEU:HD13	1:20:A:GLU:HG2	9	0.18
(1,609)	1:19:A:LEU:HD13	1:20:A:GLU:HG3	9	0.18
(1,530)	1:17:A:TRP:H	1:21:A:ARG:HG2	7	0.18
(1,530)	1:17:A:TRP:H	1:21:A:ARG:HG3	7	0.18
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	19	0.18
(1,401)	1:10:A:ASP:HB2	1:55:A:ILE:HA	9	0.18
(1,401)	1:10:A:ASP:HB3	1:55:A:ILE:HA	9	0.18
(1,398)	1:10:A:ASP:HB2	1:52:A:LEU:HB2	9	0.18
(1,398)	1:10:A:ASP:HB2	1:52:A:LEU:HB3	9	0.18
(1,398)	1:10:A:ASP:HB3	1:52:A:LEU:HB2	9	0.18
(1,398)	1:10:A:ASP:HB3	1:52:A:LEU:HB3	9	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,397)	1:10:A:ASP:HB2	1:32:A:THR:HB	15	0.18
(1,397)	1:10:A:ASP:HB3	1:32:A:THR:HB	15	0.18
(1,297)	1:8:A:VAL:HA	1:52:A:LEU:HG	11	0.18
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	20	0.18
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG21	22	0.18
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG22	22	0.18
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG23	22	0.18
(2,40)	1:18:A:VAL:HG11	1:19:A:LEU:HG	10	0.17
(2,40)	1:18:A:VAL:HG12	1:19:A:LEU:HG	10	0.17
(2,40)	1:18:A:VAL:HG13	1:19:A:LEU:HG	10	0.17
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	11	0.17
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	11	0.17
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	11	0.17
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	23	0.17
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	23	0.17
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	23	0.17
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	6	0.17
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	20	0.17
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	21	0.17
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	17	0.17
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	17	0.17
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	17	0.17
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	19	0.17
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	19	0.17
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	6	0.17
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	6	0.17
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	6	0.17
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	6	0.17
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	6	0.17
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	6	0.17
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	16	0.17
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	16	0.17
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	16	0.17
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	16	0.17
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	16	0.17
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	16	0.17
(1,1789)	1:91:A:VAL:HG11	1:101:A:TYR:HD1	21	0.17
(1,1789)	1:91:A:VAL:HG11	1:101:A:TYR:HD2	21	0.17
(1,1789)	1:91:A:VAL:HG12	1:101:A:TYR:HD1	21	0.17
(1,1789)	1:91:A:VAL:HG12	1:101:A:TYR:HD2	21	0.17
(1,1789)	1:91:A:VAL:HG13	1:101:A:TYR:HD1	21	0.17
(1,1789)	1:91:A:VAL:HG13	1:101:A:TYR:HD2	21	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1789)	1:91:A:VAL:HG11	1:101:A:TYR:HD1	22	0.17
(1,1789)	1:91:A:VAL:HG11	1:101:A:TYR:HD2	22	0.17
(1,1789)	1:91:A:VAL:HG12	1:101:A:TYR:HD1	22	0.17
(1,1789)	1:91:A:VAL:HG12	1:101:A:TYR:HD2	22	0.17
(1,1789)	1:91:A:VAL:HG13	1:101:A:TYR:HD1	22	0.17
(1,1789)	1:91:A:VAL:HG13	1:101:A:TYR:HD2	22	0.17
(1,1769)	1:90:A:ALA:HB1	1:101:A:TYR:HA	25	0.17
(1,1769)	1:90:A:ALA:HB2	1:101:A:TYR:HA	25	0.17
(1,1769)	1:90:A:ALA:HB3	1:101:A:TYR:HA	25	0.17
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD11	14	0.17
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD12	14	0.17
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD13	14	0.17
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD11	19	0.17
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD12	19	0.17
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD13	19	0.17
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD11	21	0.17
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD12	21	0.17
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD13	21	0.17
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	1	0.17
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	1	0.17
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	1	0.17
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	1	0.17
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	19	0.17
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	19	0.17
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	19	0.17
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	19	0.17
(1,1671)	1:82:A:THR:HG21	1:90:A:ALA:HA	3	0.17
(1,1671)	1:82:A:THR:HG22	1:90:A:ALA:HA	3	0.17
(1,1671)	1:82:A:THR:HG23	1:90:A:ALA:HA	3	0.17
(1,1662)	1:82:A:THR:HB	1:86:A:ASP:HA	9	0.17
(1,1662)	1:82:A:THR:HB	1:86:A:ASP:HA	17	0.17
(1,1659)	1:82:A:THR:HA	1:104:A:LYS:HE2	22	0.17
(1,1659)	1:82:A:THR:HA	1:104:A:LYS:HE3	22	0.17
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	18	0.17
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	18	0.17
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	18	0.17
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	18	0.17
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	18	0.17
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	18	0.17
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	19	0.17
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	19	0.17
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	19	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	19	0.17
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	19	0.17
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	19	0.17
(1,1559)	1:78:A:VAL:HG21	1:99:A:PHE:HD1	19	0.17
(1,1559)	1:78:A:VAL:HG21	1:99:A:PHE:HD2	19	0.17
(1,1559)	1:78:A:VAL:HG22	1:99:A:PHE:HD1	19	0.17
(1,1559)	1:78:A:VAL:HG22	1:99:A:PHE:HD2	19	0.17
(1,1559)	1:78:A:VAL:HG23	1:99:A:PHE:HD1	19	0.17
(1,1559)	1:78:A:VAL:HG23	1:99:A:PHE:HD2	19	0.17
(1,1326)	1:64:A:ALA:H	1:67:A:LYS:HD2	10	0.17
(1,1326)	1:64:A:ALA:H	1:67:A:LYS:HD3	10	0.17
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	19	0.17
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	19	0.17
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	19	0.17
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	20	0.17
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	20	0.17
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	20	0.17
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	4	0.17
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	5	0.17
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	7	0.17
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	13	0.17
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	15	0.17
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	21	0.17
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	3	0.17
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	3	0.17
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	3	0.17
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	6	0.17
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	6	0.17
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	6	0.17
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	7	0.17
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	7	0.17
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	7	0.17
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	13	0.17
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	13	0.17
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	13	0.17
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	17	0.17
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	17	0.17
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	17	0.17
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	20	0.17
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	20	0.17
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	20	0.17
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	14	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	14	0.17
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG21	16	0.17
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG22	16	0.17
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG23	16	0.17
(1,410)	1:11:A:ASP:HB2	1:55:A:ILE:HA	5	0.17
(1,410)	1:11:A:ASP:HB3	1:55:A:ILE:HA	5	0.17
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG21	2	0.17
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG22	2	0.17
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG23	2	0.17
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG21	3	0.17
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG22	3	0.17
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG23	3	0.17
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG21	13	0.17
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG22	13	0.17
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG23	13	0.17
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG21	18	0.17
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG22	18	0.17
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG23	18	0.17
(1,4)	1:2:A:GLN:HA	1:119:A:ILE:HD11	17	0.17
(1,4)	1:2:A:GLN:HA	1:119:A:ILE:HD12	17	0.17
(1,4)	1:2:A:GLN:HA	1:119:A:ILE:HD13	17	0.17
(2,40)	1:18:A:VAL:HG11	1:19:A:LEU:HG	1	0.16
(2,40)	1:18:A:VAL:HG12	1:19:A:LEU:HG	1	0.16
(2,40)	1:18:A:VAL:HG13	1:19:A:LEU:HG	1	0.16
(2,40)	1:18:A:VAL:HG11	1:19:A:LEU:HG	11	0.16
(2,40)	1:18:A:VAL:HG12	1:19:A:LEU:HG	11	0.16
(2,40)	1:18:A:VAL:HG13	1:19:A:LEU:HG	11	0.16
(2,40)	1:18:A:VAL:HG11	1:19:A:LEU:HG	12	0.16
(2,40)	1:18:A:VAL:HG12	1:19:A:LEU:HG	12	0.16
(2,40)	1:18:A:VAL:HG13	1:19:A:LEU:HG	12	0.16
(2,40)	1:18:A:VAL:HG11	1:19:A:LEU:HG	14	0.16
(2,40)	1:18:A:VAL:HG12	1:19:A:LEU:HG	14	0.16
(2,40)	1:18:A:VAL:HG13	1:19:A:LEU:HG	14	0.16
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	13	0.16
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	13	0.16
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	13	0.16
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	6	0.16
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	6	0.16
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	6	0.16
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	9	0.16
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	12	0.16
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	7	0.16
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	22	0.16
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	22	0.16
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	23	0.16
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	23	0.16
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	3	0.16
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	3	0.16
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	3	0.16
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	3	0.16
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	3	0.16
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	3	0.16
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	4	0.16
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	4	0.16
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	4	0.16
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	4	0.16
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	4	0.16
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	4	0.16
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	10	0.16
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	10	0.16
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	10	0.16
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	10	0.16
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	10	0.16
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	10	0.16
(1,1789)	1:91:A:VAL:HG11	1:101:A:TYR:HD1	19	0.16
(1,1789)	1:91:A:VAL:HG11	1:101:A:TYR:HD2	19	0.16
(1,1789)	1:91:A:VAL:HG12	1:101:A:TYR:HD1	19	0.16
(1,1789)	1:91:A:VAL:HG12	1:101:A:TYR:HD2	19	0.16
(1,1789)	1:91:A:VAL:HG13	1:101:A:TYR:HD1	19	0.16
(1,1789)	1:91:A:VAL:HG13	1:101:A:TYR:HD2	19	0.16
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD11	17	0.16
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD12	17	0.16
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD13	17	0.16
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	6	0.16
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	6	0.16
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	6	0.16
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	6	0.16
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	20	0.16
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	20	0.16
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	20	0.16
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	20	0.16
(1,1671)	1:82:A:THR:HG21	1:90:A:ALA:HA	4	0.16
(1,1671)	1:82:A:THR:HG22	1:90:A:ALA:HA	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1671)	1:82:A:THR:HG23	1:90:A:ALA:HA	4	0.16
(1,1668)	1:82:A:THR:HG21	1:85:A:SER:HA	11	0.16
(1,1668)	1:82:A:THR:HG22	1:85:A:SER:HA	11	0.16
(1,1668)	1:82:A:THR:HG23	1:85:A:SER:HA	11	0.16
(1,1662)	1:82:A:THR:HB	1:86:A:ASP:HA	11	0.16
(1,1346)	1:65:A:LEU:HD21	1:68:A:GLN:HB2	11	0.16
(1,1346)	1:65:A:LEU:HD21	1:68:A:GLN:HB3	11	0.16
(1,1346)	1:65:A:LEU:HD22	1:68:A:GLN:HB2	11	0.16
(1,1346)	1:65:A:LEU:HD22	1:68:A:GLN:HB3	11	0.16
(1,1346)	1:65:A:LEU:HD23	1:68:A:GLN:HB2	11	0.16
(1,1346)	1:65:A:LEU:HD23	1:68:A:GLN:HB3	11	0.16
(1,1326)	1:64:A:ALA:H	1:67:A:LYS:HD2	23	0.16
(1,1326)	1:64:A:ALA:H	1:67:A:LYS:HD3	23	0.16
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	1	0.16
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	1	0.16
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	1	0.16
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	20	0.16
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	20	0.16
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	20	0.16
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	25	0.16
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	25	0.16
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	25	0.16
(1,1295)	1:62:A:GLY:H	1:65:A:LEU:HD11	12	0.16
(1,1295)	1:62:A:GLY:H	1:65:A:LEU:HD12	12	0.16
(1,1295)	1:62:A:GLY:H	1:65:A:LEU:HD13	12	0.16
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD21	6	0.16
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD22	6	0.16
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD23	6	0.16
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	3	0.16
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	3	0.16
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	3	0.16
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	7	0.16
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	7	0.16
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	7	0.16
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	8	0.16
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	8	0.16
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	8	0.16
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	9	0.16
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	9	0.16
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	9	0.16
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	11	0.16
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	11	0.16
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	12	0.16
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	12	0.16
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	12	0.16
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	13	0.16
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	13	0.16
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	13	0.16
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	21	0.16
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	21	0.16
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	21	0.16
(1,923)	1:39:A:VAL:HG21	1:43:A:LEU:H	21	0.16
(1,923)	1:39:A:VAL:HG22	1:43:A:LEU:H	21	0.16
(1,923)	1:39:A:VAL:HG23	1:43:A:LEU:H	21	0.16
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	1	0.16
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	14	0.16
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	22	0.16
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	23	0.16
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	7	0.16
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	7	0.16
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	7	0.16
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	2	0.16
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	2	0.16
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	2	0.16
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	14	0.16
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	14	0.16
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	14	0.16
(1,638)	1:20:A:GLU:HB2	1:32:A:THR:HA	8	0.16
(1,638)	1:20:A:GLU:HB3	1:32:A:THR:HA	8	0.16
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	1	0.16
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	1	0.16
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	15	0.16
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	15	0.16
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	9	0.16
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	12	0.16
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	15	0.16
(1,401)	1:10:A:ASP:HB2	1:55:A:ILE:HA	23	0.16
(1,401)	1:10:A:ASP:HB3	1:55:A:ILE:HA	23	0.16
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD21	10	0.16
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD22	10	0.16
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD23	10	0.16
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD21	11	0.16
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD22	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD23	11	0.16
(1,152)	1:7:A:TRP:HA	1:33:A:PHE:H	16	0.16
(1,152)	1:7:A:TRP:HA	1:33:A:PHE:H	22	0.16
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG21	21	0.16
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG22	21	0.16
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG23	21	0.16
(2,40)	1:18:A:VAL:HG11	1:19:A:LEU:HG	20	0.15
(2,40)	1:18:A:VAL:HG12	1:19:A:LEU:HG	20	0.15
(2,40)	1:18:A:VAL:HG13	1:19:A:LEU:HG	20	0.15
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	7	0.15
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	7	0.15
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	7	0.15
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	16	0.15
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	16	0.15
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	16	0.15
(1,2019)	1:108:A:ILE:HG12	1:112:A:VAL:HB	25	0.15
(1,2019)	1:108:A:ILE:HG13	1:112:A:VAL:HB	25	0.15
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	2	0.15
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	2	0.15
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	2	0.15
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	2	0.15
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	2	0.15
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	2	0.15
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	2	0.15
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	2	0.15
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	11	0.15
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	11	0.15
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	11	0.15
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	11	0.15
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	11	0.15
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	11	0.15
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD11	6	0.15
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD12	6	0.15
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD13	6	0.15
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD2	2	0.15
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD3	2	0.15
(1,1693)	1:84:A:HIS:HD2	1:104:A:LYS:HB2	17	0.15
(1,1693)	1:84:A:HIS:HD2	1:104:A:LYS:HB3	17	0.15
(1,1693)	1:84:A:HIS:HD2	1:104:A:LYS:HB2	18	0.15
(1,1693)	1:84:A:HIS:HD2	1:104:A:LYS:HB3	18	0.15
(1,1671)	1:82:A:THR:HG21	1:90:A:ALA:HA	9	0.15
(1,1671)	1:82:A:THR:HG22	1:90:A:ALA:HA	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1671)	1:82:A:THR:HG23	1:90:A:ALA:HA	9	0.15
(1,1671)	1:82:A:THR:HG21	1:90:A:ALA:HA	20	0.15
(1,1671)	1:82:A:THR:HG22	1:90:A:ALA:HA	20	0.15
(1,1671)	1:82:A:THR:HG23	1:90:A:ALA:HA	20	0.15
(1,1668)	1:82:A:THR:HG21	1:85:A:SER:HA	4	0.15
(1,1668)	1:82:A:THR:HG22	1:85:A:SER:HA	4	0.15
(1,1668)	1:82:A:THR:HG23	1:85:A:SER:HA	4	0.15
(1,1668)	1:82:A:THR:HG21	1:85:A:SER:HA	17	0.15
(1,1668)	1:82:A:THR:HG22	1:85:A:SER:HA	17	0.15
(1,1668)	1:82:A:THR:HG23	1:85:A:SER:HA	17	0.15
(1,1662)	1:82:A:THR:HB	1:86:A:ASP:HA	12	0.15
(1,1651)	1:82:A:THR:H	1:101:A:TYR:HD1	16	0.15
(1,1651)	1:82:A:THR:H	1:101:A:TYR:HD2	16	0.15
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE1	24	0.15
(1,1615)	1:80:A:ILE:HD11	1:101:A:TYR:HE2	24	0.15
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE1	24	0.15
(1,1615)	1:80:A:ILE:HD12	1:101:A:TYR:HE2	24	0.15
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE1	24	0.15
(1,1615)	1:80:A:ILE:HD13	1:101:A:TYR:HE2	24	0.15
(1,1328)	1:64:A:ALA:HA	1:67:A:LYS:HD2	24	0.15
(1,1328)	1:64:A:ALA:HA	1:67:A:LYS:HD3	24	0.15
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	6	0.15
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	6	0.15
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	6	0.15
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	8	0.15
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	8	0.15
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	8	0.15
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD21	11	0.15
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD22	11	0.15
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD23	11	0.15
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD21	17	0.15
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD22	17	0.15
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD23	17	0.15
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	1	0.15
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	1	0.15
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	1	0.15
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	2	0.15
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	2	0.15
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	2	0.15
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	4	0.15
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	4	0.15
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	5	0.15
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	5	0.15
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	5	0.15
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	6	0.15
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	6	0.15
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	6	0.15
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	10	0.15
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	10	0.15
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	10	0.15
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	14	0.15
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	14	0.15
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	14	0.15
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	15	0.15
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	15	0.15
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	15	0.15
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	16	0.15
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	16	0.15
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	16	0.15
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	17	0.15
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	17	0.15
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	17	0.15
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	18	0.15
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	18	0.15
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	18	0.15
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	22	0.15
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	22	0.15
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	22	0.15
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	23	0.15
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	23	0.15
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	23	0.15
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	25	0.15
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	25	0.15
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	25	0.15
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	2	0.15
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	6	0.15
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	25	0.15
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	6	0.15
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	6	0.15
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	6	0.15
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	5	0.15
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	5	0.15
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	25	0.15
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	25	0.15
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	25	0.15
(1,638)	1:20:A:GLU:HB2	1:32:A:THR:HA	6	0.15
(1,638)	1:20:A:GLU:HB3	1:32:A:THR:HA	6	0.15
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE1	6	0.15
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE2	6	0.15
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	7	0.15
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	11	0.15
(1,410)	1:11:A:ASP:HB2	1:55:A:ILE:HA	18	0.15
(1,410)	1:11:A:ASP:HB3	1:55:A:ILE:HA	18	0.15
(1,401)	1:10:A:ASP:HB2	1:55:A:ILE:HA	12	0.15
(1,401)	1:10:A:ASP:HB3	1:55:A:ILE:HA	12	0.15
(1,397)	1:10:A:ASP:HB2	1:32:A:THR:HB	4	0.15
(1,397)	1:10:A:ASP:HB3	1:32:A:THR:HB	4	0.15
(1,397)	1:10:A:ASP:HB2	1:32:A:THR:HB	18	0.15
(1,397)	1:10:A:ASP:HB3	1:32:A:THR:HB	18	0.15
(1,346)	1:9:A:VAL:HG11	1:11:A:ASP:H	6	0.15
(1,346)	1:9:A:VAL:HG12	1:11:A:ASP:H	6	0.15
(1,346)	1:9:A:VAL:HG13	1:11:A:ASP:H	6	0.15
(1,346)	1:9:A:VAL:HG11	1:11:A:ASP:H	8	0.15
(1,346)	1:9:A:VAL:HG12	1:11:A:ASP:H	8	0.15
(1,346)	1:9:A:VAL:HG13	1:11:A:ASP:H	8	0.15
(1,346)	1:9:A:VAL:HG11	1:11:A:ASP:H	14	0.15
(1,346)	1:9:A:VAL:HG12	1:11:A:ASP:H	14	0.15
(1,346)	1:9:A:VAL:HG13	1:11:A:ASP:H	14	0.15
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD21	13	0.15
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD22	13	0.15
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD23	13	0.15
(1,261)	1:7:A:TRP:HZ2	1:47:A:THR:H	11	0.15
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG21	9	0.15
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG22	9	0.15
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG23	9	0.15
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG21	13	0.15
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG22	13	0.15
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG23	13	0.15
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG21	5	0.15
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG22	5	0.15
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG23	5	0.15
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	2	0.14
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	2	0.14
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	10	0.14
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	10	0.14
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	10	0.14
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	21	0.14
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	21	0.14
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	21	0.14
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	24	0.14
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	24	0.14
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	24	0.14
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	17	0.14
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	17	0.14
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	17	0.14
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	23	0.14
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	23	0.14
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	23	0.14
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	24	0.14
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	24	0.14
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	24	0.14
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	1	0.14
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	24	0.14
(1,2019)	1:108:A:ILE:HG12	1:112:A:VAL:HB	16	0.14
(1,2019)	1:108:A:ILE:HG13	1:112:A:VAL:HB	16	0.14
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	7	0.14
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	7	0.14
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	7	0.14
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	10	0.14
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	10	0.14
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	10	0.14
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	23	0.14
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	23	0.14
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	23	0.14
(1,1900)	1:102:A:LEU:HD11	1:108:A:ILE:HA	19	0.14
(1,1900)	1:102:A:LEU:HD12	1:108:A:ILE:HA	19	0.14
(1,1900)	1:102:A:LEU:HD13	1:108:A:ILE:HA	19	0.14
(1,1900)	1:102:A:LEU:HD11	1:108:A:ILE:HA	23	0.14
(1,1900)	1:102:A:LEU:HD12	1:108:A:ILE:HA	23	0.14
(1,1900)	1:102:A:LEU:HD13	1:108:A:ILE:HA	23	0.14
(1,1845)	1:99:A:PHE:HD1	1:115:A:VAL:HA	19	0.14
(1,1845)	1:99:A:PHE:HD2	1:115:A:VAL:HA	19	0.14
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB2	15	0.14
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB3	15	0.14
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB2	15	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB3	15	0.14
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	21	0.14
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	21	0.14
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	21	0.14
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	21	0.14
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	21	0.14
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	21	0.14
(1,1789)	1:91:A:VAL:HG11	1:101:A:TYR:HD1	8	0.14
(1,1789)	1:91:A:VAL:HG11	1:101:A:TYR:HD2	8	0.14
(1,1789)	1:91:A:VAL:HG12	1:101:A:TYR:HD1	8	0.14
(1,1789)	1:91:A:VAL:HG12	1:101:A:TYR:HD2	8	0.14
(1,1789)	1:91:A:VAL:HG13	1:101:A:TYR:HD1	8	0.14
(1,1789)	1:91:A:VAL:HG13	1:101:A:TYR:HD2	8	0.14
(1,1769)	1:90:A:ALA:HB1	1:101:A:TYR:HA	5	0.14
(1,1769)	1:90:A:ALA:HB2	1:101:A:TYR:HA	5	0.14
(1,1769)	1:90:A:ALA:HB3	1:101:A:TYR:HA	5	0.14
(1,1769)	1:90:A:ALA:HB1	1:101:A:TYR:HA	18	0.14
(1,1769)	1:90:A:ALA:HB2	1:101:A:TYR:HA	18	0.14
(1,1769)	1:90:A:ALA:HB3	1:101:A:TYR:HA	18	0.14
(1,1769)	1:90:A:ALA:HB1	1:101:A:TYR:HA	22	0.14
(1,1769)	1:90:A:ALA:HB2	1:101:A:TYR:HA	22	0.14
(1,1769)	1:90:A:ALA:HB3	1:101:A:TYR:HA	22	0.14
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD11	8	0.14
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD12	8	0.14
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD13	8	0.14
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD11	16	0.14
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD12	16	0.14
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD13	16	0.14
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD2	3	0.14
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD3	3	0.14
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD2	5	0.14
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD3	5	0.14
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD2	22	0.14
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD3	22	0.14
(1,1671)	1:82:A:THR:HG21	1:90:A:ALA:HA	6	0.14
(1,1671)	1:82:A:THR:HG22	1:90:A:ALA:HA	6	0.14
(1,1671)	1:82:A:THR:HG23	1:90:A:ALA:HA	6	0.14
(1,1671)	1:82:A:THR:HG21	1:90:A:ALA:HA	19	0.14
(1,1671)	1:82:A:THR:HG22	1:90:A:ALA:HA	19	0.14
(1,1671)	1:82:A:THR:HG23	1:90:A:ALA:HA	19	0.14
(1,1668)	1:82:A:THR:HG21	1:85:A:SER:HA	9	0.14
(1,1668)	1:82:A:THR:HG22	1:85:A:SER:HA	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1668)	1:82:A:THR:HG23	1:85:A:SER:HA	9	0.14
(1,1668)	1:82:A:THR:HG21	1:85:A:SER:HA	10	0.14
(1,1668)	1:82:A:THR:HG22	1:85:A:SER:HA	10	0.14
(1,1668)	1:82:A:THR:HG23	1:85:A:SER:HA	10	0.14
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB1	22	0.14
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB2	22	0.14
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB3	22	0.14
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB1	14	0.14
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB2	14	0.14
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB3	14	0.14
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	15	0.14
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	15	0.14
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	15	0.14
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	22	0.14
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	22	0.14
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	22	0.14
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	23	0.14
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	23	0.14
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	23	0.14
(1,1197)	1:54:A:ASP:H	1:56:A:ARG:HD2	21	0.14
(1,1197)	1:54:A:ASP:H	1:56:A:ARG:HD3	21	0.14
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD21	8	0.14
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD22	8	0.14
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD23	8	0.14
(1,992)	1:43:A:LEU:HD11	1:47:A:THR:HB	17	0.14
(1,992)	1:43:A:LEU:HD12	1:47:A:THR:HB	17	0.14
(1,992)	1:43:A:LEU:HD13	1:47:A:THR:HB	17	0.14
(1,938)	1:40:A:LEU:HD11	1:68:A:GLN:HA	19	0.14
(1,938)	1:40:A:LEU:HD12	1:68:A:GLN:HA	19	0.14
(1,938)	1:40:A:LEU:HD13	1:68:A:GLN:HA	19	0.14
(1,923)	1:39:A:VAL:HG21	1:43:A:LEU:H	3	0.14
(1,923)	1:39:A:VAL:HG22	1:43:A:LEU:H	3	0.14
(1,923)	1:39:A:VAL:HG23	1:43:A:LEU:H	3	0.14
(1,923)	1:39:A:VAL:HG21	1:43:A:LEU:H	23	0.14
(1,923)	1:39:A:VAL:HG22	1:43:A:LEU:H	23	0.14
(1,923)	1:39:A:VAL:HG23	1:43:A:LEU:H	23	0.14
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	8	0.14
(1,901)	1:39:A:VAL:H	1:40:A:LEU:HG	9	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	2	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	2	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	2	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	3	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	3	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	5	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	5	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	5	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	8	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	8	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	8	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	10	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	10	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	10	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	13	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	13	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	13	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	14	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	14	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	14	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	15	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	15	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	15	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	23	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	23	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	23	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	25	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	25	0.14
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	25	0.14
(1,638)	1:20:A:GLU:HB2	1:32:A:THR:HA	7	0.14
(1,638)	1:20:A:GLU:HB3	1:32:A:THR:HA	7	0.14
(1,609)	1:19:A:LEU:HD11	1:20:A:GLU:HG2	7	0.14
(1,609)	1:19:A:LEU:HD11	1:20:A:GLU:HG3	7	0.14
(1,609)	1:19:A:LEU:HD12	1:20:A:GLU:HG2	7	0.14
(1,609)	1:19:A:LEU:HD12	1:20:A:GLU:HG3	7	0.14
(1,609)	1:19:A:LEU:HD13	1:20:A:GLU:HG2	7	0.14
(1,609)	1:19:A:LEU:HD13	1:20:A:GLU:HG3	7	0.14
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE1	8	0.14
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE2	8	0.14
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	20	0.14
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	20	0.14
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	24	0.14
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	24	0.14
(1,509)	1:16:A:ARG:H	1:81:A:MET:HE1	22	0.14
(1,509)	1:16:A:ARG:H	1:81:A:MET:HE2	22	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,509)	1:16:A:ARG:H	1:81:A:MET:HE3	22	0.14
(1,486)	1:15:A:ILE:HD11	1:19:A:LEU:H	5	0.14
(1,486)	1:15:A:ILE:HD12	1:19:A:LEU:H	5	0.14
(1,486)	1:15:A:ILE:HD13	1:19:A:LEU:H	5	0.14
(1,486)	1:15:A:ILE:HD11	1:19:A:LEU:H	18	0.14
(1,486)	1:15:A:ILE:HD12	1:19:A:LEU:H	18	0.14
(1,486)	1:15:A:ILE:HD13	1:19:A:LEU:H	18	0.14
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	3	0.14
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	17	0.14
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	21	0.14
(1,398)	1:10:A:ASP:HB2	1:52:A:LEU:HB2	12	0.14
(1,398)	1:10:A:ASP:HB2	1:52:A:LEU:HB3	12	0.14
(1,398)	1:10:A:ASP:HB3	1:52:A:LEU:HB2	12	0.14
(1,398)	1:10:A:ASP:HB3	1:52:A:LEU:HB3	12	0.14
(1,346)	1:9:A:VAL:HG11	1:11:A:ASP:H	17	0.14
(1,346)	1:9:A:VAL:HG12	1:11:A:ASP:H	17	0.14
(1,346)	1:9:A:VAL:HG13	1:11:A:ASP:H	17	0.14
(1,346)	1:9:A:VAL:HG11	1:11:A:ASP:H	21	0.14
(1,346)	1:9:A:VAL:HG12	1:11:A:ASP:H	21	0.14
(1,346)	1:9:A:VAL:HG13	1:11:A:ASP:H	21	0.14
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	9	0.14
(1,89)	1:5:A:ILE:HG21	1:51:A:LEU:HA	19	0.14
(1,89)	1:5:A:ILE:HG22	1:51:A:LEU:HA	19	0.14
(1,89)	1:5:A:ILE:HG23	1:51:A:LEU:HA	19	0.14
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG21	6	0.14
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG22	6	0.14
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG23	6	0.14
(2,40)	1:18:A:VAL:HG11	1:19:A:LEU:HG	13	0.13
(2,40)	1:18:A:VAL:HG12	1:19:A:LEU:HG	13	0.13
(2,40)	1:18:A:VAL:HG13	1:19:A:LEU:HG	13	0.13
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	8	0.13
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	8	0.13
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	8	0.13
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	12	0.13
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	12	0.13
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	12	0.13
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	14	0.13
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	14	0.13
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	14	0.13
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	3	0.13
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	3	0.13
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	8	0.13
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	8	0.13
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	8	0.13
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	21	0.13
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	21	0.13
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	21	0.13
(1,2019)	1:108:A:ILE:HG12	1:112:A:VAL:HB	7	0.13
(1,2019)	1:108:A:ILE:HG13	1:112:A:VAL:HB	7	0.13
(1,2019)	1:108:A:ILE:HG12	1:112:A:VAL:HB	11	0.13
(1,2019)	1:108:A:ILE:HG13	1:112:A:VAL:HB	11	0.13
(1,2019)	1:108:A:ILE:HG12	1:112:A:VAL:HB	13	0.13
(1,2019)	1:108:A:ILE:HG13	1:112:A:VAL:HB	13	0.13
(1,2019)	1:108:A:ILE:HG12	1:112:A:VAL:HB	20	0.13
(1,2019)	1:108:A:ILE:HG13	1:112:A:VAL:HB	20	0.13
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	4	0.13
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	4	0.13
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	4	0.13
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	13	0.13
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	13	0.13
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	13	0.13
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	21	0.13
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	21	0.13
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	21	0.13
(1,1900)	1:102:A:LEU:HD11	1:108:A:ILE:HA	17	0.13
(1,1900)	1:102:A:LEU:HD12	1:108:A:ILE:HA	17	0.13
(1,1900)	1:102:A:LEU:HD13	1:108:A:ILE:HA	17	0.13
(1,1900)	1:102:A:LEU:HD11	1:108:A:ILE:HA	25	0.13
(1,1900)	1:102:A:LEU:HD12	1:108:A:ILE:HA	25	0.13
(1,1900)	1:102:A:LEU:HD13	1:108:A:ILE:HA	25	0.13
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	5	0.13
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	5	0.13
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	6	0.13
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	6	0.13
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	17	0.13
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	17	0.13
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB2	3	0.13
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB3	3	0.13
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB2	3	0.13
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB3	3	0.13
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB2	6	0.13
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB3	6	0.13
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB2	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB3	6	0.13
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB2	21	0.13
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB3	21	0.13
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB2	21	0.13
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB3	21	0.13
(1,1837)	1:99:A:PHE:H	1:100:A:ASP:HB2	16	0.13
(1,1837)	1:99:A:PHE:H	1:100:A:ASP:HB3	16	0.13
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	7	0.13
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	7	0.13
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	7	0.13
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	7	0.13
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	7	0.13
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	7	0.13
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	17	0.13
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	17	0.13
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	17	0.13
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	17	0.13
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	17	0.13
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	17	0.13
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	19	0.13
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	19	0.13
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	19	0.13
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	19	0.13
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	19	0.13
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	19	0.13
(1,1789)	1:91:A:VAL:HG11	1:101:A:TYR:HD1	2	0.13
(1,1789)	1:91:A:VAL:HG11	1:101:A:TYR:HD2	2	0.13
(1,1789)	1:91:A:VAL:HG12	1:101:A:TYR:HD1	2	0.13
(1,1789)	1:91:A:VAL:HG12	1:101:A:TYR:HD2	2	0.13
(1,1789)	1:91:A:VAL:HG13	1:101:A:TYR:HD1	2	0.13
(1,1789)	1:91:A:VAL:HG13	1:101:A:TYR:HD2	2	0.13
(1,1769)	1:90:A:ALA:HB1	1:101:A:TYR:HA	20	0.13
(1,1769)	1:90:A:ALA:HB2	1:101:A:TYR:HA	20	0.13
(1,1769)	1:90:A:ALA:HB3	1:101:A:TYR:HA	20	0.13
(1,1703)	1:85:A:SER:HA	1:89:A:ALA:HB1	14	0.13
(1,1703)	1:85:A:SER:HA	1:89:A:ALA:HB2	14	0.13
(1,1703)	1:85:A:SER:HA	1:89:A:ALA:HB3	14	0.13
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD11	4	0.13
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD12	4	0.13
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD13	4	0.13
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD11	11	0.13
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD12	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD13	11	0.13
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD11	13	0.13
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD12	13	0.13
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD13	13	0.13
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD11	15	0.13
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD12	15	0.13
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD13	15	0.13
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD11	24	0.13
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD12	24	0.13
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD13	24	0.13
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD2	7	0.13
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD3	7	0.13
(1,1693)	1:84:A:HIS:HD2	1:104:A:LYS:HB2	1	0.13
(1,1693)	1:84:A:HIS:HD2	1:104:A:LYS:HB3	1	0.13
(1,1693)	1:84:A:HIS:HD2	1:104:A:LYS:HB2	20	0.13
(1,1693)	1:84:A:HIS:HD2	1:104:A:LYS:HB3	20	0.13
(1,1692)	1:84:A:HIS:HD2	1:103:A:PRO:HB2	19	0.13
(1,1692)	1:84:A:HIS:HD2	1:103:A:PRO:HB3	19	0.13
(1,1692)	1:84:A:HIS:HD2	1:103:A:PRO:HB2	22	0.13
(1,1692)	1:84:A:HIS:HD2	1:103:A:PRO:HB3	22	0.13
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	4	0.13
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	4	0.13
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	4	0.13
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	4	0.13
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	16	0.13
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	16	0.13
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	16	0.13
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	16	0.13
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	17	0.13
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	17	0.13
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	17	0.13
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	17	0.13
(1,1677)	1:82:A:THR:HG21	1:104:A:LYS:HD2	4	0.13
(1,1677)	1:82:A:THR:HG21	1:104:A:LYS:HD3	4	0.13
(1,1677)	1:82:A:THR:HG22	1:104:A:LYS:HD2	4	0.13
(1,1677)	1:82:A:THR:HG22	1:104:A:LYS:HD3	4	0.13
(1,1677)	1:82:A:THR:HG23	1:104:A:LYS:HD2	4	0.13
(1,1677)	1:82:A:THR:HG23	1:104:A:LYS:HD3	4	0.13
(1,1671)	1:82:A:THR:HG21	1:90:A:ALA:HA	8	0.13
(1,1671)	1:82:A:THR:HG22	1:90:A:ALA:HA	8	0.13
(1,1671)	1:82:A:THR:HG23	1:90:A:ALA:HA	8	0.13
(1,1671)	1:82:A:THR:HG21	1:90:A:ALA:HA	24	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1671)	1:82:A:THR:HG22	1:90:A:ALA:HA	24	0.13
(1,1671)	1:82:A:THR:HG23	1:90:A:ALA:HA	24	0.13
(1,1668)	1:82:A:THR:HG21	1:85:A:SER:HA	15	0.13
(1,1668)	1:82:A:THR:HG22	1:85:A:SER:HA	15	0.13
(1,1668)	1:82:A:THR:HG23	1:85:A:SER:HA	15	0.13
(1,1585)	1:79:A:ILE:HG21	1:99:A:PHE:H	11	0.13
(1,1585)	1:79:A:ILE:HG22	1:99:A:PHE:H	11	0.13
(1,1585)	1:79:A:ILE:HG23	1:99:A:PHE:H	11	0.13
(1,1555)	1:78:A:VAL:HG11	1:98:A:ALA:HA	11	0.13
(1,1555)	1:78:A:VAL:HG12	1:98:A:ALA:HA	11	0.13
(1,1555)	1:78:A:VAL:HG13	1:98:A:ALA:HA	11	0.13
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB1	15	0.13
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB2	15	0.13
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB3	15	0.13
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB1	17	0.13
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB2	17	0.13
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB3	17	0.13
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB1	23	0.13
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB2	23	0.13
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB3	23	0.13
(1,1342)	1:65:A:LEU:HD11	1:68:A:GLN:HG2	21	0.13
(1,1342)	1:65:A:LEU:HD11	1:68:A:GLN:HG3	21	0.13
(1,1342)	1:65:A:LEU:HD12	1:68:A:GLN:HG2	21	0.13
(1,1342)	1:65:A:LEU:HD12	1:68:A:GLN:HG3	21	0.13
(1,1342)	1:65:A:LEU:HD13	1:68:A:GLN:HG2	21	0.13
(1,1342)	1:65:A:LEU:HD13	1:68:A:GLN:HG3	21	0.13
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	13	0.13
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	13	0.13
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	13	0.13
(1,1320)	1:63:A:LEU:HD21	1:67:A:LYS:HA	12	0.13
(1,1320)	1:63:A:LEU:HD22	1:67:A:LYS:HA	12	0.13
(1,1320)	1:63:A:LEU:HD23	1:67:A:LYS:HA	12	0.13
(1,1295)	1:62:A:GLY:H	1:65:A:LEU:HD11	2	0.13
(1,1295)	1:62:A:GLY:H	1:65:A:LEU:HD12	2	0.13
(1,1295)	1:62:A:GLY:H	1:65:A:LEU:HD13	2	0.13
(1,1288)	1:61:A:ASP:HA	1:63:A:LEU:HD11	18	0.13
(1,1288)	1:61:A:ASP:HA	1:63:A:LEU:HD12	18	0.13
(1,1288)	1:61:A:ASP:HA	1:63:A:LEU:HD13	18	0.13
(1,1262)	1:57:A:MET:HG2	1:64:A:ALA:HB1	10	0.13
(1,1262)	1:57:A:MET:HG2	1:64:A:ALA:HB2	10	0.13
(1,1262)	1:57:A:MET:HG2	1:64:A:ALA:HB3	10	0.13
(1,1262)	1:57:A:MET:HG3	1:64:A:ALA:HB1	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1262)	1:57:A:MET:HG3	1:64:A:ALA:HB2	10	0.13
(1,1262)	1:57:A:MET:HG3	1:64:A:ALA:HB3	10	0.13
(1,1250)	1:56:A:ARG:HA	1:84:A:HIS:HE1	10	0.13
(1,1235)	1:55:A:ILE:HD11	1:81:A:MET:HE1	16	0.13
(1,1235)	1:55:A:ILE:HD11	1:81:A:MET:HE2	16	0.13
(1,1235)	1:55:A:ILE:HD11	1:81:A:MET:HE3	16	0.13
(1,1235)	1:55:A:ILE:HD12	1:81:A:MET:HE1	16	0.13
(1,1235)	1:55:A:ILE:HD12	1:81:A:MET:HE2	16	0.13
(1,1235)	1:55:A:ILE:HD12	1:81:A:MET:HE3	16	0.13
(1,1235)	1:55:A:ILE:HD13	1:81:A:MET:HE1	16	0.13
(1,1235)	1:55:A:ILE:HD13	1:81:A:MET:HE2	16	0.13
(1,1235)	1:55:A:ILE:HD13	1:81:A:MET:HE3	16	0.13
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD21	9	0.13
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD22	9	0.13
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD23	9	0.13
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD21	25	0.13
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD22	25	0.13
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD23	25	0.13
(1,992)	1:43:A:LEU:HD11	1:47:A:THR:HB	9	0.13
(1,992)	1:43:A:LEU:HD12	1:47:A:THR:HB	9	0.13
(1,992)	1:43:A:LEU:HD13	1:47:A:THR:HB	9	0.13
(1,992)	1:43:A:LEU:HD11	1:47:A:THR:HB	10	0.13
(1,992)	1:43:A:LEU:HD12	1:47:A:THR:HB	10	0.13
(1,992)	1:43:A:LEU:HD13	1:47:A:THR:HB	10	0.13
(1,989)	1:43:A:LEU:HD11	1:45:A:SER:H	24	0.13
(1,989)	1:43:A:LEU:HD12	1:45:A:SER:H	24	0.13
(1,989)	1:43:A:LEU:HD13	1:45:A:SER:H	24	0.13
(1,931)	1:40:A:LEU:HA	1:69:A:ILE:HG21	20	0.13
(1,931)	1:40:A:LEU:HA	1:69:A:ILE:HG22	20	0.13
(1,931)	1:40:A:LEU:HA	1:69:A:ILE:HG23	20	0.13
(1,923)	1:39:A:VAL:HG21	1:43:A:LEU:H	6	0.13
(1,923)	1:39:A:VAL:HG22	1:43:A:LEU:H	6	0.13
(1,923)	1:39:A:VAL:HG23	1:43:A:LEU:H	6	0.13
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	1	0.13
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	1	0.13
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	1	0.13
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	9	0.13
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	9	0.13
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	9	0.13
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	18	0.13
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	18	0.13
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	22	0.13
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	22	0.13
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	22	0.13
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	11	0.13
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	11	0.13
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	11	0.13
(1,638)	1:20:A:GLU:HB2	1:32:A:THR:HA	17	0.13
(1,638)	1:20:A:GLU:HB3	1:32:A:THR:HA	17	0.13
(1,609)	1:19:A:LEU:HD11	1:20:A:GLU:HG2	8	0.13
(1,609)	1:19:A:LEU:HD11	1:20:A:GLU:HG3	8	0.13
(1,609)	1:19:A:LEU:HD12	1:20:A:GLU:HG2	8	0.13
(1,609)	1:19:A:LEU:HD12	1:20:A:GLU:HG3	8	0.13
(1,609)	1:19:A:LEU:HD13	1:20:A:GLU:HG2	8	0.13
(1,609)	1:19:A:LEU:HD13	1:20:A:GLU:HG3	8	0.13
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE1	14	0.13
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE2	14	0.13
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE1	23	0.13
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE2	23	0.13
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE1	25	0.13
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE2	25	0.13
(1,530)	1:17:A:TRP:H	1:21:A:ARG:HG2	23	0.13
(1,530)	1:17:A:TRP:H	1:21:A:ARG:HG3	23	0.13
(1,439)	1:13:A:SER:H	1:15:A:ILE:HD11	18	0.13
(1,439)	1:13:A:SER:H	1:15:A:ILE:HD12	18	0.13
(1,439)	1:13:A:SER:H	1:15:A:ILE:HD13	18	0.13
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	4	0.13
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	8	0.13
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	13	0.13
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	23	0.13
(1,410)	1:11:A:ASP:HB2	1:55:A:ILE:HA	16	0.13
(1,410)	1:11:A:ASP:HB3	1:55:A:ILE:HA	16	0.13
(1,410)	1:11:A:ASP:HB2	1:55:A:ILE:HA	22	0.13
(1,410)	1:11:A:ASP:HB3	1:55:A:ILE:HA	22	0.13
(1,410)	1:11:A:ASP:HB2	1:55:A:ILE:HA	24	0.13
(1,410)	1:11:A:ASP:HB3	1:55:A:ILE:HA	24	0.13
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	2	0.13
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	7	0.13
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	10	0.13
(1,152)	1:7:A:TRP:HA	1:33:A:PHE:H	20	0.13
(1,89)	1:5:A:ILE:HG21	1:51:A:LEU:HA	5	0.13
(1,89)	1:5:A:ILE:HG22	1:51:A:LEU:HA	5	0.13
(1,89)	1:5:A:ILE:HG23	1:51:A:LEU:HA	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,89)	1:5:A:ILE:HG21	1:51:A:LEU:HA	18	0.13
(1,89)	1:5:A:ILE:HG22	1:51:A:LEU:HA	18	0.13
(1,89)	1:5:A:ILE:HG23	1:51:A:LEU:HA	18	0.13
(1,46)	1:5:A:ILE:H	1:46:A:LYS:HE2	11	0.13
(1,46)	1:5:A:ILE:H	1:46:A:LYS:HE3	11	0.13
(1,15)	1:3:A:ARG:HA	1:119:A:ILE:HD11	13	0.13
(1,15)	1:3:A:ARG:HA	1:119:A:ILE:HD12	13	0.13
(1,15)	1:3:A:ARG:HA	1:119:A:ILE:HD13	13	0.13
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG21	10	0.13
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG22	10	0.13
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG23	10	0.13
(1,4)	1:2:A:GLN:HA	1:119:A:ILE:HD11	6	0.13
(1,4)	1:2:A:GLN:HA	1:119:A:ILE:HD12	6	0.13
(1,4)	1:2:A:GLN:HA	1:119:A:ILE:HD13	6	0.13
(1,4)	1:2:A:GLN:HA	1:119:A:ILE:HD11	18	0.13
(1,4)	1:2:A:GLN:HA	1:119:A:ILE:HD12	18	0.13
(1,4)	1:2:A:GLN:HA	1:119:A:ILE:HD13	18	0.13
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	1	0.12
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	1	0.12
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	1	0.12
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	4	0.12
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	4	0.12
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	4	0.12
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	5	0.12
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	5	0.12
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	5	0.12
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	15	0.12
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	15	0.12
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	15	0.12
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	17	0.12
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	17	0.12
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	17	0.12
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	20	0.12
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	20	0.12
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	20	0.12
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	22	0.12
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	22	0.12
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	22	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	5	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	5	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	5	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	10	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	10	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	11	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	11	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	11	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	16	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	16	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	16	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	20	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	20	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	20	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	25	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	25	0.12
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	25	0.12
(1,2023)	1:109:A:ASP:HA	1:112:A:VAL:HA	18	0.12
(1,2019)	1:108:A:ILE:HG12	1:112:A:VAL:HB	5	0.12
(1,2019)	1:108:A:ILE:HG13	1:112:A:VAL:HB	5	0.12
(1,2019)	1:108:A:ILE:HG12	1:112:A:VAL:HB	9	0.12
(1,2019)	1:108:A:ILE:HG13	1:112:A:VAL:HB	9	0.12
(1,2019)	1:108:A:ILE:HG12	1:112:A:VAL:HB	14	0.12
(1,2019)	1:108:A:ILE:HG13	1:112:A:VAL:HB	14	0.12
(1,2019)	1:108:A:ILE:HG12	1:112:A:VAL:HB	24	0.12
(1,2019)	1:108:A:ILE:HG13	1:112:A:VAL:HB	24	0.12
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	2	0.12
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	2	0.12
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	2	0.12
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	3	0.12
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	3	0.12
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	3	0.12
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	8	0.12
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	8	0.12
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	8	0.12
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	11	0.12
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	11	0.12
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	11	0.12
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	16	0.12
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	16	0.12
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	16	0.12
(1,1900)	1:102:A:LEU:HD11	1:108:A:ILE:HA	12	0.12
(1,1900)	1:102:A:LEU:HD12	1:108:A:ILE:HA	12	0.12
(1,1900)	1:102:A:LEU:HD13	1:108:A:ILE:HA	12	0.12
(1,1900)	1:102:A:LEU:HD11	1:108:A:ILE:HA	14	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1900)	1:102:A:LEU:HD12	1:108:A:ILE:HA	14	0.12
(1,1900)	1:102:A:LEU:HD13	1:108:A:ILE:HA	14	0.12
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	9	0.12
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	9	0.12
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB2	7	0.12
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB3	7	0.12
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB2	7	0.12
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB3	7	0.12
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB2	17	0.12
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB3	17	0.12
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB2	17	0.12
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB3	17	0.12
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB2	23	0.12
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB3	23	0.12
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB2	23	0.12
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB3	23	0.12
(1,1837)	1:99:A:PHE:H	1:100:A:ASP:HB2	7	0.12
(1,1837)	1:99:A:PHE:H	1:100:A:ASP:HB3	7	0.12
(1,1837)	1:99:A:PHE:H	1:100:A:ASP:HB2	13	0.12
(1,1837)	1:99:A:PHE:H	1:100:A:ASP:HB3	13	0.12
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	8	0.12
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	8	0.12
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	8	0.12
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	8	0.12
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	8	0.12
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	8	0.12
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	12	0.12
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	12	0.12
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	12	0.12
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	12	0.12
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	12	0.12
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	12	0.12
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	14	0.12
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	14	0.12
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	14	0.12
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	14	0.12
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	14	0.12
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	14	0.12
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	23	0.12
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	23	0.12
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	23	0.12
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	23	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	23	0.12
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	23	0.12
(1,1769)	1:90:A:ALA:HB1	1:101:A:TYR:HA	2	0.12
(1,1769)	1:90:A:ALA:HB2	1:101:A:TYR:HA	2	0.12
(1,1769)	1:90:A:ALA:HB3	1:101:A:TYR:HA	2	0.12
(1,1769)	1:90:A:ALA:HB1	1:101:A:TYR:HA	3	0.12
(1,1769)	1:90:A:ALA:HB2	1:101:A:TYR:HA	3	0.12
(1,1769)	1:90:A:ALA:HB3	1:101:A:TYR:HA	3	0.12
(1,1769)	1:90:A:ALA:HB1	1:101:A:TYR:HA	7	0.12
(1,1769)	1:90:A:ALA:HB2	1:101:A:TYR:HA	7	0.12
(1,1769)	1:90:A:ALA:HB3	1:101:A:TYR:HA	7	0.12
(1,1769)	1:90:A:ALA:HB1	1:101:A:TYR:HA	14	0.12
(1,1769)	1:90:A:ALA:HB2	1:101:A:TYR:HA	14	0.12
(1,1769)	1:90:A:ALA:HB3	1:101:A:TYR:HA	14	0.12
(1,1769)	1:90:A:ALA:HB1	1:101:A:TYR:HA	23	0.12
(1,1769)	1:90:A:ALA:HB2	1:101:A:TYR:HA	23	0.12
(1,1769)	1:90:A:ALA:HB3	1:101:A:TYR:HA	23	0.12
(1,1703)	1:85:A:SER:HA	1:89:A:ALA:HB1	19	0.12
(1,1703)	1:85:A:SER:HA	1:89:A:ALA:HB2	19	0.12
(1,1703)	1:85:A:SER:HA	1:89:A:ALA:HB3	19	0.12
(1,1703)	1:85:A:SER:HA	1:89:A:ALA:HB1	23	0.12
(1,1703)	1:85:A:SER:HA	1:89:A:ALA:HB2	23	0.12
(1,1703)	1:85:A:SER:HA	1:89:A:ALA:HB3	23	0.12
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD11	12	0.12
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD12	12	0.12
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD13	12	0.12
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD11	25	0.12
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD12	25	0.12
(1,1700)	1:85:A:SER:HA	1:87:A:LEU:HD13	25	0.12
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD2	23	0.12
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD3	23	0.12
(1,1692)	1:84:A:HIS:HD2	1:103:A:PRO:HB2	2	0.12
(1,1692)	1:84:A:HIS:HD2	1:103:A:PRO:HB3	2	0.12
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	8	0.12
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	8	0.12
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	8	0.12
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	8	0.12
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	14	0.12
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	14	0.12
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	14	0.12
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	14	0.12
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	21	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	21	0.12
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	21	0.12
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	21	0.12
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	23	0.12
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	23	0.12
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	23	0.12
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	23	0.12
(1,1668)	1:82:A:THR:HG21	1:85:A:SER:HA	23	0.12
(1,1668)	1:82:A:THR:HG22	1:85:A:SER:HA	23	0.12
(1,1668)	1:82:A:THR:HG23	1:85:A:SER:HA	23	0.12
(1,1667)	1:82:A:THR:HG21	1:84:A:HIS:HB2	12	0.12
(1,1667)	1:82:A:THR:HG21	1:84:A:HIS:HB3	12	0.12
(1,1667)	1:82:A:THR:HG22	1:84:A:HIS:HB2	12	0.12
(1,1667)	1:82:A:THR:HG22	1:84:A:HIS:HB3	12	0.12
(1,1667)	1:82:A:THR:HG23	1:84:A:HIS:HB2	12	0.12
(1,1667)	1:82:A:THR:HG23	1:84:A:HIS:HB3	12	0.12
(1,1651)	1:82:A:THR:H	1:101:A:TYR:HD1	15	0.12
(1,1651)	1:82:A:THR:H	1:101:A:TYR:HD2	15	0.12
(1,1651)	1:82:A:THR:H	1:101:A:TYR:HD1	25	0.12
(1,1651)	1:82:A:THR:H	1:101:A:TYR:HD2	25	0.12
(1,1596)	1:80:A:ILE:H	1:82:A:THR:HG21	16	0.12
(1,1596)	1:80:A:ILE:H	1:82:A:THR:HG22	16	0.12
(1,1596)	1:80:A:ILE:H	1:82:A:THR:HG23	16	0.12
(1,1559)	1:78:A:VAL:HG21	1:99:A:PHE:HD1	20	0.12
(1,1559)	1:78:A:VAL:HG21	1:99:A:PHE:HD2	20	0.12
(1,1559)	1:78:A:VAL:HG22	1:99:A:PHE:HD1	20	0.12
(1,1559)	1:78:A:VAL:HG22	1:99:A:PHE:HD2	20	0.12
(1,1559)	1:78:A:VAL:HG23	1:99:A:PHE:HD1	20	0.12
(1,1559)	1:78:A:VAL:HG23	1:99:A:PHE:HD2	20	0.12
(1,1532)	1:77:A:PRO:HD2	1:122:A:TYR:HB2	13	0.12
(1,1532)	1:77:A:PRO:HD2	1:122:A:TYR:HB3	13	0.12
(1,1532)	1:77:A:PRO:HD3	1:122:A:TYR:HB2	13	0.12
(1,1532)	1:77:A:PRO:HD3	1:122:A:TYR:HB3	13	0.12
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB1	10	0.12
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB2	10	0.12
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB3	10	0.12
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB1	11	0.12
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB2	11	0.12
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB3	11	0.12
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB1	25	0.12
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB2	25	0.12
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB3	25	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1360)	1:66:A:LEU:HD11	1:93:A:ALA:HB1	11	0.12
(1,1360)	1:66:A:LEU:HD11	1:93:A:ALA:HB2	11	0.12
(1,1360)	1:66:A:LEU:HD11	1:93:A:ALA:HB3	11	0.12
(1,1360)	1:66:A:LEU:HD12	1:93:A:ALA:HB1	11	0.12
(1,1360)	1:66:A:LEU:HD12	1:93:A:ALA:HB2	11	0.12
(1,1360)	1:66:A:LEU:HD12	1:93:A:ALA:HB3	11	0.12
(1,1360)	1:66:A:LEU:HD13	1:93:A:ALA:HB1	11	0.12
(1,1360)	1:66:A:LEU:HD13	1:93:A:ALA:HB2	11	0.12
(1,1360)	1:66:A:LEU:HD13	1:93:A:ALA:HB3	11	0.12
(1,1360)	1:66:A:LEU:HD21	1:93:A:ALA:HB1	11	0.12
(1,1360)	1:66:A:LEU:HD21	1:93:A:ALA:HB2	11	0.12
(1,1360)	1:66:A:LEU:HD21	1:93:A:ALA:HB3	11	0.12
(1,1360)	1:66:A:LEU:HD22	1:93:A:ALA:HB1	11	0.12
(1,1360)	1:66:A:LEU:HD22	1:93:A:ALA:HB2	11	0.12
(1,1360)	1:66:A:LEU:HD22	1:93:A:ALA:HB3	11	0.12
(1,1360)	1:66:A:LEU:HD23	1:93:A:ALA:HB1	11	0.12
(1,1360)	1:66:A:LEU:HD23	1:93:A:ALA:HB2	11	0.12
(1,1360)	1:66:A:LEU:HD23	1:93:A:ALA:HB3	11	0.12
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	2	0.12
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	2	0.12
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	2	0.12
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	7	0.12
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	7	0.12
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	7	0.12
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	16	0.12
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	16	0.12
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	16	0.12
(1,1295)	1:62:A:GLY:H	1:65:A:LEU:HD11	14	0.12
(1,1295)	1:62:A:GLY:H	1:65:A:LEU:HD12	14	0.12
(1,1295)	1:62:A:GLY:H	1:65:A:LEU:HD13	14	0.12
(1,1206)	1:54:A:ASP:HA	1:56:A:ARG:H	5	0.12
(1,1137)	1:52:A:LEU:H	1:78:A:VAL:HA	25	0.12
(1,992)	1:43:A:LEU:HD11	1:47:A:THR:HB	2	0.12
(1,992)	1:43:A:LEU:HD12	1:47:A:THR:HB	2	0.12
(1,992)	1:43:A:LEU:HD13	1:47:A:THR:HB	2	0.12
(1,992)	1:43:A:LEU:HD11	1:47:A:THR:HB	4	0.12
(1,992)	1:43:A:LEU:HD12	1:47:A:THR:HB	4	0.12
(1,992)	1:43:A:LEU:HD13	1:47:A:THR:HB	4	0.12
(1,992)	1:43:A:LEU:HD11	1:47:A:THR:HB	7	0.12
(1,992)	1:43:A:LEU:HD12	1:47:A:THR:HB	7	0.12
(1,992)	1:43:A:LEU:HD13	1:47:A:THR:HB	7	0.12
(1,992)	1:43:A:LEU:HD11	1:47:A:THR:HB	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,992)	1:43:A:LEU:HD12	1:47:A:THR:HB	8	0.12
(1,992)	1:43:A:LEU:HD13	1:47:A:THR:HB	8	0.12
(1,992)	1:43:A:LEU:HD11	1:47:A:THR:HB	15	0.12
(1,992)	1:43:A:LEU:HD12	1:47:A:THR:HB	15	0.12
(1,992)	1:43:A:LEU:HD13	1:47:A:THR:HB	15	0.12
(1,992)	1:43:A:LEU:HD11	1:47:A:THR:HB	25	0.12
(1,992)	1:43:A:LEU:HD12	1:47:A:THR:HB	25	0.12
(1,992)	1:43:A:LEU:HD13	1:47:A:THR:HB	25	0.12
(1,990)	1:43:A:LEU:HD11	1:47:A:THR:H	11	0.12
(1,990)	1:43:A:LEU:HD12	1:47:A:THR:H	11	0.12
(1,990)	1:43:A:LEU:HD13	1:47:A:THR:H	11	0.12
(1,948)	1:40:A:LEU:HD21	1:68:A:GLN:HA	3	0.12
(1,948)	1:40:A:LEU:HD22	1:68:A:GLN:HA	3	0.12
(1,948)	1:40:A:LEU:HD23	1:68:A:GLN:HA	3	0.12
(1,948)	1:40:A:LEU:HD21	1:68:A:GLN:HA	24	0.12
(1,948)	1:40:A:LEU:HD22	1:68:A:GLN:HA	24	0.12
(1,948)	1:40:A:LEU:HD23	1:68:A:GLN:HA	24	0.12
(1,938)	1:40:A:LEU:HD11	1:68:A:GLN:HA	20	0.12
(1,938)	1:40:A:LEU:HD12	1:68:A:GLN:HA	20	0.12
(1,938)	1:40:A:LEU:HD13	1:68:A:GLN:HA	20	0.12
(1,923)	1:39:A:VAL:HG21	1:43:A:LEU:H	15	0.12
(1,923)	1:39:A:VAL:HG22	1:43:A:LEU:H	15	0.12
(1,923)	1:39:A:VAL:HG23	1:43:A:LEU:H	15	0.12
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	11	0.12
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	11	0.12
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	11	0.12
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	12	0.12
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	12	0.12
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	12	0.12
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	16	0.12
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	16	0.12
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	16	0.12
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	21	0.12
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	21	0.12
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	21	0.12
(1,691)	1:23:A:LEU:HD21	1:26:A:ALA:HA	7	0.12
(1,691)	1:23:A:LEU:HD22	1:26:A:ALA:HA	7	0.12
(1,691)	1:23:A:LEU:HD23	1:26:A:ALA:HA	7	0.12
(1,641)	1:20:A:GLU:HG2	1:21:A:ARG:HB2	8	0.12
(1,641)	1:20:A:GLU:HG2	1:21:A:ARG:HB3	8	0.12
(1,641)	1:20:A:GLU:HG3	1:21:A:ARG:HB2	8	0.12
(1,641)	1:20:A:GLU:HG3	1:21:A:ARG:HB3	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,641)	1:20:A:GLU:HG2	1:21:A:ARG:HB2	17	0.12
(1,641)	1:20:A:GLU:HG2	1:21:A:ARG:HB3	17	0.12
(1,641)	1:20:A:GLU:HG3	1:21:A:ARG:HB2	17	0.12
(1,641)	1:20:A:GLU:HG3	1:21:A:ARG:HB3	17	0.12
(1,638)	1:20:A:GLU:HB2	1:32:A:THR:HA	1	0.12
(1,638)	1:20:A:GLU:HB3	1:32:A:THR:HA	1	0.12
(1,638)	1:20:A:GLU:HB2	1:32:A:THR:HA	3	0.12
(1,638)	1:20:A:GLU:HB3	1:32:A:THR:HA	3	0.12
(1,638)	1:20:A:GLU:HB2	1:32:A:THR:HA	14	0.12
(1,638)	1:20:A:GLU:HB3	1:32:A:THR:HA	14	0.12
(1,586)	1:18:A:VAL:HG21	1:21:A:ARG:HB2	14	0.12
(1,586)	1:18:A:VAL:HG21	1:21:A:ARG:HB3	14	0.12
(1,586)	1:18:A:VAL:HG22	1:21:A:ARG:HB2	14	0.12
(1,586)	1:18:A:VAL:HG22	1:21:A:ARG:HB3	14	0.12
(1,586)	1:18:A:VAL:HG23	1:21:A:ARG:HB2	14	0.12
(1,586)	1:18:A:VAL:HG23	1:21:A:ARG:HB3	14	0.12
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	18	0.12
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	18	0.12
(1,486)	1:15:A:ILE:HD11	1:19:A:LEU:H	13	0.12
(1,486)	1:15:A:ILE:HD12	1:19:A:LEU:H	13	0.12
(1,486)	1:15:A:ILE:HD13	1:19:A:LEU:H	13	0.12
(1,486)	1:15:A:ILE:HD11	1:19:A:LEU:H	22	0.12
(1,486)	1:15:A:ILE:HD12	1:19:A:LEU:H	22	0.12
(1,486)	1:15:A:ILE:HD13	1:19:A:LEU:H	22	0.12
(1,442)	1:13:A:SER:H	1:17:A:TRP:H	18	0.12
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG21	12	0.12
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG22	12	0.12
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG23	12	0.12
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG21	19	0.12
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG22	19	0.12
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG23	19	0.12
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG21	23	0.12
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG22	23	0.12
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG23	23	0.12
(1,409)	1:11:A:ASP:HB2	1:15:A:ILE:HB	21	0.12
(1,409)	1:11:A:ASP:HB3	1:15:A:ILE:HB	21	0.12
(1,404)	1:11:A:ASP:H	1:34:A:GLU:HB2	13	0.12
(1,404)	1:11:A:ASP:H	1:34:A:GLU:HB3	13	0.12
(1,401)	1:10:A:ASP:HB2	1:55:A:ILE:HA	6	0.12
(1,401)	1:10:A:ASP:HB3	1:55:A:ILE:HA	6	0.12
(1,401)	1:10:A:ASP:HB2	1:55:A:ILE:HA	19	0.12
(1,401)	1:10:A:ASP:HB3	1:55:A:ILE:HA	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,397)	1:10:A:ASP:HB2	1:32:A:THR:HB	5	0.12
(1,397)	1:10:A:ASP:HB3	1:32:A:THR:HB	5	0.12
(1,397)	1:10:A:ASP:HB2	1:32:A:THR:HB	7	0.12
(1,397)	1:10:A:ASP:HB3	1:32:A:THR:HB	7	0.12
(1,397)	1:10:A:ASP:HB2	1:32:A:THR:HB	20	0.12
(1,397)	1:10:A:ASP:HB3	1:32:A:THR:HB	20	0.12
(1,386)	1:10:A:ASP:H	1:33:A:PHE:HD1	16	0.12
(1,386)	1:10:A:ASP:H	1:33:A:PHE:HD2	16	0.12
(1,346)	1:9:A:VAL:HG11	1:11:A:ASP:H	10	0.12
(1,346)	1:9:A:VAL:HG12	1:11:A:ASP:H	10	0.12
(1,346)	1:9:A:VAL:HG13	1:11:A:ASP:H	10	0.12
(1,346)	1:9:A:VAL:HG11	1:11:A:ASP:H	11	0.12
(1,346)	1:9:A:VAL:HG12	1:11:A:ASP:H	11	0.12
(1,346)	1:9:A:VAL:HG13	1:11:A:ASP:H	11	0.12
(1,346)	1:9:A:VAL:HG11	1:11:A:ASP:H	23	0.12
(1,346)	1:9:A:VAL:HG12	1:11:A:ASP:H	23	0.12
(1,346)	1:9:A:VAL:HG13	1:11:A:ASP:H	23	0.12
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	3	0.12
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	4	0.12
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	8	0.12
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	11	0.12
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	13	0.12
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	18	0.12
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	23	0.12
(1,250)	1:7:A:TRP:HZ2	1:42:A:ALA:HA	12	0.12
(1,221)	1:7:A:TRP:HE3	1:48:A:PRO:HA	18	0.12
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG21	3	0.12
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG22	3	0.12
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG23	3	0.12
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG21	7	0.12
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG22	7	0.12
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG23	7	0.12
(1,152)	1:7:A:TRP:HA	1:33:A:PHE:H	18	0.12
(1,89)	1:5:A:ILE:HG21	1:51:A:LEU:HA	14	0.12
(1,89)	1:5:A:ILE:HG22	1:51:A:LEU:HA	14	0.12
(1,89)	1:5:A:ILE:HG23	1:51:A:LEU:HA	14	0.12
(1,25)	1:3:A:ARG:HD2	1:119:A:ILE:H	11	0.12
(1,25)	1:3:A:ARG:HD3	1:119:A:ILE:H	11	0.12
(1,4)	1:2:A:GLN:HA	1:119:A:ILE:HD11	10	0.12
(1,4)	1:2:A:GLN:HA	1:119:A:ILE:HD12	10	0.12
(1,4)	1:2:A:GLN:HA	1:119:A:ILE:HD13	10	0.12
(2,136)	1:100:A:ASP:HB2	1:114:A:LEU:HD21	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,136)	1:100:A:ASP:HB2	1:114:A:LEU:HD22	19	0.11
(2,136)	1:100:A:ASP:HB2	1:114:A:LEU:HD23	19	0.11
(2,136)	1:100:A:ASP:HB3	1:114:A:LEU:HD21	19	0.11
(2,136)	1:100:A:ASP:HB3	1:114:A:LEU:HD22	19	0.11
(2,136)	1:100:A:ASP:HB3	1:114:A:LEU:HD23	19	0.11
(2,40)	1:18:A:VAL:HG11	1:19:A:LEU:HG	2	0.11
(2,40)	1:18:A:VAL:HG12	1:19:A:LEU:HG	2	0.11
(2,40)	1:18:A:VAL:HG13	1:19:A:LEU:HG	2	0.11
(2,32)	1:10:A:ASP:H	1:34:A:GLU:HA	10	0.11
(1,2145)	1:119:A:ILE:HD11	1:122:A:TYR:HD1	3	0.11
(1,2145)	1:119:A:ILE:HD11	1:122:A:TYR:HD2	3	0.11
(1,2145)	1:119:A:ILE:HD12	1:122:A:TYR:HD1	3	0.11
(1,2145)	1:119:A:ILE:HD12	1:122:A:TYR:HD2	3	0.11
(1,2145)	1:119:A:ILE:HD13	1:122:A:TYR:HD1	3	0.11
(1,2145)	1:119:A:ILE:HD13	1:122:A:TYR:HD2	3	0.11
(1,2098)	1:115:A:VAL:HA	1:119:A:ILE:HB	18	0.11
(1,2064)	1:112:A:VAL:HG21	1:116:A:GLU:H	9	0.11
(1,2064)	1:112:A:VAL:HG22	1:116:A:GLU:H	9	0.11
(1,2064)	1:112:A:VAL:HG23	1:116:A:GLU:H	9	0.11
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	1	0.11
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	1	0.11
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	1	0.11
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	7	0.11
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	7	0.11
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	7	0.11
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	14	0.11
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	14	0.11
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	14	0.11
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD21	15	0.11
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD22	15	0.11
(1,2039)	1:110:A:GLU:HA	1:114:A:LEU:HD23	15	0.11
(1,2019)	1:108:A:ILE:HG12	1:112:A:VAL:HB	12	0.11
(1,2019)	1:108:A:ILE:HG13	1:112:A:VAL:HB	12	0.11
(1,2019)	1:108:A:ILE:HG12	1:112:A:VAL:HB	15	0.11
(1,2019)	1:108:A:ILE:HG13	1:112:A:VAL:HB	15	0.11
(1,2019)	1:108:A:ILE:HG12	1:112:A:VAL:HB	22	0.11
(1,2019)	1:108:A:ILE:HG13	1:112:A:VAL:HB	22	0.11
(1,2019)	1:108:A:ILE:HG12	1:112:A:VAL:HB	23	0.11
(1,2019)	1:108:A:ILE:HG13	1:112:A:VAL:HB	23	0.11
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	5	0.11
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	5	0.11
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	6	0.11
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	6	0.11
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	6	0.11
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	15	0.11
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	15	0.11
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	15	0.11
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	19	0.11
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	19	0.11
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	19	0.11
(1,2016)	1:108:A:ILE:HD11	1:112:A:VAL:H	22	0.11
(1,2016)	1:108:A:ILE:HD12	1:112:A:VAL:H	22	0.11
(1,2016)	1:108:A:ILE:HD13	1:112:A:VAL:H	22	0.11
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	14	0.11
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	14	0.11
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	18	0.11
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	18	0.11
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	25	0.11
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	25	0.11
(1,1843)	1:99:A:PHE:HD1	1:114:A:LEU:HG	19	0.11
(1,1843)	1:99:A:PHE:HD2	1:114:A:LEU:HG	19	0.11
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB2	8	0.11
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB3	8	0.11
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB2	8	0.11
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB3	8	0.11
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB2	20	0.11
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB3	20	0.11
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB2	20	0.11
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB3	20	0.11
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB2	24	0.11
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB3	24	0.11
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB2	24	0.11
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB3	24	0.11
(1,1837)	1:99:A:PHE:H	1:100:A:ASP:HB2	2	0.11
(1,1837)	1:99:A:PHE:H	1:100:A:ASP:HB3	2	0.11
(1,1837)	1:99:A:PHE:H	1:100:A:ASP:HB2	3	0.11
(1,1837)	1:99:A:PHE:H	1:100:A:ASP:HB3	3	0.11
(1,1837)	1:99:A:PHE:H	1:100:A:ASP:HB2	19	0.11
(1,1837)	1:99:A:PHE:H	1:100:A:ASP:HB3	19	0.11
(1,1789)	1:91:A:VAL:HG11	1:101:A:TYR:HD1	7	0.11
(1,1789)	1:91:A:VAL:HG11	1:101:A:TYR:HD2	7	0.11
(1,1789)	1:91:A:VAL:HG12	1:101:A:TYR:HD1	7	0.11
(1,1789)	1:91:A:VAL:HG12	1:101:A:TYR:HD2	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1789)	1:91:A:VAL:HG13	1:101:A:TYR:HD1	7	0.11
(1,1789)	1:91:A:VAL:HG13	1:101:A:TYR:HD2	7	0.11
(1,1769)	1:90:A:ALA:HB1	1:101:A:TYR:HA	15	0.11
(1,1769)	1:90:A:ALA:HB2	1:101:A:TYR:HA	15	0.11
(1,1769)	1:90:A:ALA:HB3	1:101:A:TYR:HA	15	0.11
(1,1703)	1:85:A:SER:HA	1:89:A:ALA:HB1	8	0.11
(1,1703)	1:85:A:SER:HA	1:89:A:ALA:HB2	8	0.11
(1,1703)	1:85:A:SER:HA	1:89:A:ALA:HB3	8	0.11
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD2	20	0.11
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD3	20	0.11
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB2	24	0.11
(1,1689)	1:84:A:HIS:HB2	1:103:A:PRO:HB3	24	0.11
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB2	24	0.11
(1,1689)	1:84:A:HIS:HB3	1:103:A:PRO:HB3	24	0.11
(1,1668)	1:82:A:THR:HG21	1:85:A:SER:HA	6	0.11
(1,1668)	1:82:A:THR:HG22	1:85:A:SER:HA	6	0.11
(1,1668)	1:82:A:THR:HG23	1:85:A:SER:HA	6	0.11
(1,1668)	1:82:A:THR:HG21	1:85:A:SER:HA	8	0.11
(1,1668)	1:82:A:THR:HG22	1:85:A:SER:HA	8	0.11
(1,1668)	1:82:A:THR:HG23	1:85:A:SER:HA	8	0.11
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB1	2	0.11
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB2	2	0.11
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB3	2	0.11
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB1	14	0.11
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB2	14	0.11
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB3	14	0.11
(1,1651)	1:82:A:THR:H	1:101:A:TYR:HD1	3	0.11
(1,1651)	1:82:A:THR:H	1:101:A:TYR:HD2	3	0.11
(1,1651)	1:82:A:THR:H	1:101:A:TYR:HD1	11	0.11
(1,1651)	1:82:A:THR:H	1:101:A:TYR:HD2	11	0.11
(1,1596)	1:80:A:ILE:H	1:82:A:THR:HG21	25	0.11
(1,1596)	1:80:A:ILE:H	1:82:A:THR:HG22	25	0.11
(1,1596)	1:80:A:ILE:H	1:82:A:THR:HG23	25	0.11
(1,1555)	1:78:A:VAL:HG11	1:98:A:ALA:HA	17	0.11
(1,1555)	1:78:A:VAL:HG12	1:98:A:ALA:HA	17	0.11
(1,1555)	1:78:A:VAL:HG13	1:98:A:ALA:HA	17	0.11
(1,1429)	1:69:A:ILE:HG21	1:98:A:ALA:HA	20	0.11
(1,1429)	1:69:A:ILE:HG22	1:98:A:ALA:HA	20	0.11
(1,1429)	1:69:A:ILE:HG23	1:98:A:ALA:HA	20	0.11
(1,1390)	1:68:A:GLN:HB2	1:72:A:ARG:HA	11	0.11
(1,1390)	1:68:A:GLN:HB3	1:72:A:ARG:HA	11	0.11
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB1	24	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB2	24	0.11
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB3	24	0.11
(1,1326)	1:64:A:ALA:H	1:67:A:LYS:HD2	1	0.11
(1,1326)	1:64:A:ALA:H	1:67:A:LYS:HD3	1	0.11
(1,1264)	1:58:A:PRO:HA	1:61:A:ASP:HA	10	0.11
(1,1250)	1:56:A:ARG:HA	1:84:A:HIS:HE1	16	0.11
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD21	5	0.11
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD22	5	0.11
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD23	5	0.11
(1,1128)	1:51:A:LEU:HD11	1:52:A:LEU:HA	19	0.11
(1,1128)	1:51:A:LEU:HD12	1:52:A:LEU:HA	19	0.11
(1,1128)	1:51:A:LEU:HD13	1:52:A:LEU:HA	19	0.11
(1,992)	1:43:A:LEU:HD11	1:47:A:THR:HB	1	0.11
(1,992)	1:43:A:LEU:HD12	1:47:A:THR:HB	1	0.11
(1,992)	1:43:A:LEU:HD13	1:47:A:THR:HB	1	0.11
(1,992)	1:43:A:LEU:HD11	1:47:A:THR:HB	13	0.11
(1,992)	1:43:A:LEU:HD12	1:47:A:THR:HB	13	0.11
(1,992)	1:43:A:LEU:HD13	1:47:A:THR:HB	13	0.11
(1,992)	1:43:A:LEU:HD11	1:47:A:THR:HB	14	0.11
(1,992)	1:43:A:LEU:HD12	1:47:A:THR:HB	14	0.11
(1,992)	1:43:A:LEU:HD13	1:47:A:THR:HB	14	0.11
(1,992)	1:43:A:LEU:HD11	1:47:A:THR:HB	21	0.11
(1,992)	1:43:A:LEU:HD12	1:47:A:THR:HB	21	0.11
(1,992)	1:43:A:LEU:HD13	1:47:A:THR:HB	21	0.11
(1,990)	1:43:A:LEU:HD11	1:47:A:THR:H	20	0.11
(1,990)	1:43:A:LEU:HD12	1:47:A:THR:H	20	0.11
(1,990)	1:43:A:LEU:HD13	1:47:A:THR:H	20	0.11
(1,990)	1:43:A:LEU:HD11	1:47:A:THR:H	24	0.11
(1,990)	1:43:A:LEU:HD12	1:47:A:THR:H	24	0.11
(1,990)	1:43:A:LEU:HD13	1:47:A:THR:H	24	0.11
(1,978)	1:43:A:LEU:HA	1:46:A:LYS:HB2	12	0.11
(1,978)	1:43:A:LEU:HA	1:46:A:LYS:HB3	12	0.11
(1,948)	1:40:A:LEU:HD21	1:68:A:GLN:HA	1	0.11
(1,948)	1:40:A:LEU:HD22	1:68:A:GLN:HA	1	0.11
(1,948)	1:40:A:LEU:HD23	1:68:A:GLN:HA	1	0.11
(1,948)	1:40:A:LEU:HD21	1:68:A:GLN:HA	12	0.11
(1,948)	1:40:A:LEU:HD22	1:68:A:GLN:HA	12	0.11
(1,948)	1:40:A:LEU:HD23	1:68:A:GLN:HA	12	0.11
(1,923)	1:39:A:VAL:HG21	1:43:A:LEU:H	1	0.11
(1,923)	1:39:A:VAL:HG22	1:43:A:LEU:H	1	0.11
(1,923)	1:39:A:VAL:HG23	1:43:A:LEU:H	1	0.11
(1,923)	1:39:A:VAL:HG21	1:43:A:LEU:H	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,923)	1:39:A:VAL:HG22	1:43:A:LEU:H	7	0.11
(1,923)	1:39:A:VAL:HG23	1:43:A:LEU:H	7	0.11
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	4	0.11
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	4	0.11
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	4	0.11
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD11	17	0.11
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD12	17	0.11
(1,900)	1:39:A:VAL:H	1:40:A:LEU:HD13	17	0.11
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	24	0.11
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	24	0.11
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	24	0.11
(1,728)	1:28:A:LEU:HD11	1:112:A:VAL:HB	10	0.11
(1,728)	1:28:A:LEU:HD12	1:112:A:VAL:HB	10	0.11
(1,728)	1:28:A:LEU:HD13	1:112:A:VAL:HB	10	0.11
(1,728)	1:28:A:LEU:HD11	1:112:A:VAL:HB	23	0.11
(1,728)	1:28:A:LEU:HD12	1:112:A:VAL:HB	23	0.11
(1,728)	1:28:A:LEU:HD13	1:112:A:VAL:HB	23	0.11
(1,706)	1:24:A:ALA:HB1	1:30:A:CYS:H	1	0.11
(1,706)	1:24:A:ALA:HB2	1:30:A:CYS:H	1	0.11
(1,706)	1:24:A:ALA:HB3	1:30:A:CYS:H	1	0.11
(1,638)	1:20:A:GLU:HB2	1:32:A:THR:HA	4	0.11
(1,638)	1:20:A:GLU:HB3	1:32:A:THR:HA	4	0.11
(1,638)	1:20:A:GLU:HB2	1:32:A:THR:HA	11	0.11
(1,638)	1:20:A:GLU:HB3	1:32:A:THR:HA	11	0.11
(1,638)	1:20:A:GLU:HB2	1:32:A:THR:HA	12	0.11
(1,638)	1:20:A:GLU:HB3	1:32:A:THR:HA	12	0.11
(1,638)	1:20:A:GLU:HB2	1:32:A:THR:HA	21	0.11
(1,638)	1:20:A:GLU:HB3	1:32:A:THR:HA	21	0.11
(1,609)	1:19:A:LEU:HD11	1:20:A:GLU:HG2	2	0.11
(1,609)	1:19:A:LEU:HD11	1:20:A:GLU:HG3	2	0.11
(1,609)	1:19:A:LEU:HD12	1:20:A:GLU:HG2	2	0.11
(1,609)	1:19:A:LEU:HD12	1:20:A:GLU:HG3	2	0.11
(1,609)	1:19:A:LEU:HD13	1:20:A:GLU:HG2	2	0.11
(1,609)	1:19:A:LEU:HD13	1:20:A:GLU:HG3	2	0.11
(1,586)	1:18:A:VAL:HG21	1:21:A:ARG:HB2	1	0.11
(1,586)	1:18:A:VAL:HG21	1:21:A:ARG:HB3	1	0.11
(1,586)	1:18:A:VAL:HG22	1:21:A:ARG:HB2	1	0.11
(1,586)	1:18:A:VAL:HG22	1:21:A:ARG:HB3	1	0.11
(1,586)	1:18:A:VAL:HG23	1:21:A:ARG:HB2	1	0.11
(1,586)	1:18:A:VAL:HG23	1:21:A:ARG:HB3	1	0.11
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE1	1	0.11
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE2	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE1	12	0.11
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE2	12	0.11
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE1	15	0.11
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE2	15	0.11
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE1	17	0.11
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE2	17	0.11
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE1	21	0.11
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE2	21	0.11
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE1	24	0.11
(1,573)	1:18:A:VAL:HA	1:106:A:PHE:HE2	24	0.11
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB2	22	0.11
(1,559)	1:17:A:TRP:HE3	1:20:A:GLU:HB3	22	0.11
(1,509)	1:16:A:ARG:H	1:81:A:MET:HE1	11	0.11
(1,509)	1:16:A:ARG:H	1:81:A:MET:HE2	11	0.11
(1,509)	1:16:A:ARG:H	1:81:A:MET:HE3	11	0.11
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG21	17	0.11
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG22	17	0.11
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG23	17	0.11
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	2	0.11
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	22	0.11
(1,410)	1:11:A:ASP:HB2	1:55:A:ILE:HA	21	0.11
(1,410)	1:11:A:ASP:HB3	1:55:A:ILE:HA	21	0.11
(1,409)	1:11:A:ASP:HB2	1:15:A:ILE:HB	17	0.11
(1,409)	1:11:A:ASP:HB3	1:15:A:ILE:HB	17	0.11
(1,404)	1:11:A:ASP:H	1:34:A:GLU:HB2	15	0.11
(1,404)	1:11:A:ASP:H	1:34:A:GLU:HB3	15	0.11
(1,398)	1:10:A:ASP:HB2	1:52:A:LEU:HB2	19	0.11
(1,398)	1:10:A:ASP:HB2	1:52:A:LEU:HB3	19	0.11
(1,398)	1:10:A:ASP:HB3	1:52:A:LEU:HB2	19	0.11
(1,398)	1:10:A:ASP:HB3	1:52:A:LEU:HB3	19	0.11
(1,397)	1:10:A:ASP:HB2	1:32:A:THR:HB	11	0.11
(1,397)	1:10:A:ASP:HB3	1:32:A:THR:HB	11	0.11
(1,397)	1:10:A:ASP:HB2	1:32:A:THR:HB	16	0.11
(1,397)	1:10:A:ASP:HB3	1:32:A:THR:HB	16	0.11
(1,386)	1:10:A:ASP:H	1:33:A:PHE:HD1	24	0.11
(1,386)	1:10:A:ASP:H	1:33:A:PHE:HD2	24	0.11
(1,346)	1:9:A:VAL:HG11	1:11:A:ASP:H	4	0.11
(1,346)	1:9:A:VAL:HG12	1:11:A:ASP:H	4	0.11
(1,346)	1:9:A:VAL:HG13	1:11:A:ASP:H	4	0.11
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD21	25	0.11
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD22	25	0.11
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD23	25	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,297)	1:8:A:VAL:HA	1:52:A:LEU:HG	10	0.11
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	1	0.11
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	6	0.11
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	15	0.11
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	17	0.11
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	25	0.11
(1,250)	1:7:A:TRP:HZ2	1:42:A:ALA:HA	5	0.11
(1,152)	1:7:A:TRP:HA	1:33:A:PHE:H	12	0.11
(1,129)	1:6:A:VAL:HG21	1:31:A:THR:H	18	0.11
(1,129)	1:6:A:VAL:HG22	1:31:A:THR:H	18	0.11
(1,129)	1:6:A:VAL:HG23	1:31:A:THR:H	18	0.11
(1,89)	1:5:A:ILE:HG21	1:51:A:LEU:HA	1	0.11
(1,89)	1:5:A:ILE:HG22	1:51:A:LEU:HA	1	0.11
(1,89)	1:5:A:ILE:HG23	1:51:A:LEU:HA	1	0.11
(1,89)	1:5:A:ILE:HG21	1:51:A:LEU:HA	13	0.11
(1,89)	1:5:A:ILE:HG22	1:51:A:LEU:HA	13	0.11
(1,89)	1:5:A:ILE:HG23	1:51:A:LEU:HA	13	0.11
(1,89)	1:5:A:ILE:HG21	1:51:A:LEU:HA	24	0.11
(1,89)	1:5:A:ILE:HG22	1:51:A:LEU:HA	24	0.11
(1,89)	1:5:A:ILE:HG23	1:51:A:LEU:HA	24	0.11
(1,22)	1:3:A:ARG:HD2	1:27:A:GLY:HA2	11	0.11
(1,22)	1:3:A:ARG:HD2	1:27:A:GLY:HA3	11	0.11
(1,22)	1:3:A:ARG:HD3	1:27:A:GLY:HA2	11	0.11
(1,22)	1:3:A:ARG:HD3	1:27:A:GLY:HA3	11	0.11
(1,13)	1:3:A:ARG:HA	1:5:A:ILE:HD11	7	0.11
(1,13)	1:3:A:ARG:HA	1:5:A:ILE:HD12	7	0.11
(1,13)	1:3:A:ARG:HA	1:5:A:ILE:HD13	7	0.11
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG21	17	0.11
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG22	17	0.11
(1,5)	1:2:A:GLN:HA	1:119:A:ILE:HG23	17	0.11
(2,40)	1:18:A:VAL:HG11	1:19:A:LEU:HG	7	0.1
(2,40)	1:18:A:VAL:HG12	1:19:A:LEU:HG	7	0.1
(2,40)	1:18:A:VAL:HG13	1:19:A:LEU:HG	7	0.1
(2,32)	1:10:A:ASP:H	1:34:A:GLU:HA	11	0.1
(1,2019)	1:108:A:ILE:HG12	1:112:A:VAL:HB	2	0.1
(1,2019)	1:108:A:ILE:HG13	1:112:A:VAL:HB	2	0.1
(1,1900)	1:102:A:LEU:HD11	1:108:A:ILE:HA	8	0.1
(1,1900)	1:102:A:LEU:HD12	1:108:A:ILE:HA	8	0.1
(1,1900)	1:102:A:LEU:HD13	1:108:A:ILE:HA	8	0.1
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	3	0.1
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	3	0.1
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	8	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	8	0.1
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	13	0.1
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	13	0.1
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	21	0.1
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	21	0.1
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB2	24	0.1
(1,1857)	1:99:A:PHE:HZ	1:102:A:LEU:HB3	24	0.1
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB2	5	0.1
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB3	5	0.1
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB2	5	0.1
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB3	5	0.1
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB2	18	0.1
(1,1841)	1:99:A:PHE:HD1	1:114:A:LEU:HB3	18	0.1
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB2	18	0.1
(1,1841)	1:99:A:PHE:HD2	1:114:A:LEU:HB3	18	0.1
(1,1837)	1:99:A:PHE:H	1:100:A:ASP:HB2	4	0.1
(1,1837)	1:99:A:PHE:H	1:100:A:ASP:HB3	4	0.1
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD1	15	0.1
(1,1796)	1:91:A:VAL:HG21	1:94:A:TYR:HD2	15	0.1
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD1	15	0.1
(1,1796)	1:91:A:VAL:HG22	1:94:A:TYR:HD2	15	0.1
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD1	15	0.1
(1,1796)	1:91:A:VAL:HG23	1:94:A:TYR:HD2	15	0.1
(1,1769)	1:90:A:ALA:HB1	1:101:A:TYR:HA	6	0.1
(1,1769)	1:90:A:ALA:HB2	1:101:A:TYR:HA	6	0.1
(1,1769)	1:90:A:ALA:HB3	1:101:A:TYR:HA	6	0.1
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD2	1	0.1
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD3	1	0.1
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD2	18	0.1
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD3	18	0.1
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD2	21	0.1
(1,1694)	1:84:A:HIS:HD2	1:105:A:PRO:HD3	21	0.1
(1,1692)	1:84:A:HIS:HD2	1:103:A:PRO:HB2	8	0.1
(1,1692)	1:84:A:HIS:HD2	1:103:A:PRO:HB3	8	0.1
(1,1676)	1:82:A:THR:HG21	1:104:A:LYS:HB2	12	0.1
(1,1676)	1:82:A:THR:HG21	1:104:A:LYS:HB3	12	0.1
(1,1676)	1:82:A:THR:HG22	1:104:A:LYS:HB2	12	0.1
(1,1676)	1:82:A:THR:HG22	1:104:A:LYS:HB3	12	0.1
(1,1676)	1:82:A:THR:HG23	1:104:A:LYS:HB2	12	0.1
(1,1676)	1:82:A:THR:HG23	1:104:A:LYS:HB3	12	0.1
(1,1671)	1:82:A:THR:HG21	1:90:A:ALA:HA	1	0.1
(1,1671)	1:82:A:THR:HG22	1:90:A:ALA:HA	1	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1671)	1:82:A:THR:HG23	1:90:A:ALA:HA	1	0.1
(1,1671)	1:82:A:THR:HG21	1:90:A:ALA:HA	15	0.1
(1,1671)	1:82:A:THR:HG22	1:90:A:ALA:HA	15	0.1
(1,1671)	1:82:A:THR:HG23	1:90:A:ALA:HA	15	0.1
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB1	7	0.1
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB2	7	0.1
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB3	7	0.1
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB1	23	0.1
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB2	23	0.1
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB3	23	0.1
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB1	24	0.1
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB2	24	0.1
(1,1664)	1:82:A:THR:HB	1:90:A:ALA:HB3	24	0.1
(1,1651)	1:82:A:THR:H	1:101:A:TYR:HD1	7	0.1
(1,1651)	1:82:A:THR:H	1:101:A:TYR:HD2	7	0.1
(1,1621)	1:80:A:ILE:HG21	1:93:A:ALA:HB1	13	0.1
(1,1621)	1:80:A:ILE:HG21	1:93:A:ALA:HB2	13	0.1
(1,1621)	1:80:A:ILE:HG21	1:93:A:ALA:HB3	13	0.1
(1,1621)	1:80:A:ILE:HG22	1:93:A:ALA:HB1	13	0.1
(1,1621)	1:80:A:ILE:HG22	1:93:A:ALA:HB2	13	0.1
(1,1621)	1:80:A:ILE:HG22	1:93:A:ALA:HB3	13	0.1
(1,1621)	1:80:A:ILE:HG23	1:93:A:ALA:HB1	13	0.1
(1,1621)	1:80:A:ILE:HG23	1:93:A:ALA:HB2	13	0.1
(1,1621)	1:80:A:ILE:HG23	1:93:A:ALA:HB3	13	0.1
(1,1559)	1:78:A:VAL:HG21	1:99:A:PHE:HD1	3	0.1
(1,1559)	1:78:A:VAL:HG21	1:99:A:PHE:HD2	3	0.1
(1,1559)	1:78:A:VAL:HG22	1:99:A:PHE:HD1	3	0.1
(1,1559)	1:78:A:VAL:HG22	1:99:A:PHE:HD2	3	0.1
(1,1559)	1:78:A:VAL:HG23	1:99:A:PHE:HD1	3	0.1
(1,1559)	1:78:A:VAL:HG23	1:99:A:PHE:HD2	3	0.1
(1,1559)	1:78:A:VAL:HG21	1:99:A:PHE:HD1	12	0.1
(1,1559)	1:78:A:VAL:HG21	1:99:A:PHE:HD2	12	0.1
(1,1559)	1:78:A:VAL:HG22	1:99:A:PHE:HD1	12	0.1
(1,1559)	1:78:A:VAL:HG22	1:99:A:PHE:HD2	12	0.1
(1,1559)	1:78:A:VAL:HG23	1:99:A:PHE:HD1	12	0.1
(1,1559)	1:78:A:VAL:HG23	1:99:A:PHE:HD2	12	0.1
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB1	3	0.1
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB2	3	0.1
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB3	3	0.1
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB1	7	0.1
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB2	7	0.1
(1,1376)	1:67:A:LYS:HA	1:93:A:ALA:HB3	7	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1340)	1:65:A:LEU:HD11	1:68:A:GLN:HB2	11	0.1
(1,1340)	1:65:A:LEU:HD11	1:68:A:GLN:HB3	11	0.1
(1,1340)	1:65:A:LEU:HD12	1:68:A:GLN:HB2	11	0.1
(1,1340)	1:65:A:LEU:HD12	1:68:A:GLN:HB3	11	0.1
(1,1340)	1:65:A:LEU:HD13	1:68:A:GLN:HB2	11	0.1
(1,1340)	1:65:A:LEU:HD13	1:68:A:GLN:HB3	11	0.1
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD11	12	0.1
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD12	12	0.1
(1,1325)	1:64:A:ALA:H	1:65:A:LEU:HD13	12	0.1
(1,1320)	1:63:A:LEU:HD21	1:67:A:LYS:HA	14	0.1
(1,1320)	1:63:A:LEU:HD22	1:67:A:LYS:HA	14	0.1
(1,1320)	1:63:A:LEU:HD23	1:67:A:LYS:HA	14	0.1
(1,1295)	1:62:A:GLY:H	1:65:A:LEU:HD11	7	0.1
(1,1295)	1:62:A:GLY:H	1:65:A:LEU:HD12	7	0.1
(1,1295)	1:62:A:GLY:H	1:65:A:LEU:HD13	7	0.1
(1,1282)	1:60:A:MET:HG2	1:64:A:ALA:H	20	0.1
(1,1282)	1:60:A:MET:HG3	1:64:A:ALA:H	20	0.1
(1,1250)	1:56:A:ARG:HA	1:84:A:HIS:HE1	25	0.1
(1,1162)	1:52:A:LEU:HD21	1:112:A:VAL:H	17	0.1
(1,1162)	1:52:A:LEU:HD22	1:112:A:VAL:H	17	0.1
(1,1162)	1:52:A:LEU:HD23	1:112:A:VAL:H	17	0.1
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD21	21	0.1
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD22	21	0.1
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD23	21	0.1
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD21	23	0.1
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD22	23	0.1
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD23	23	0.1
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD21	24	0.1
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD22	24	0.1
(1,1146)	1:52:A:LEU:HA	1:114:A:LEU:HD23	24	0.1
(1,1054)	1:47:A:THR:HG21	1:74:A:PRO:HD2	9	0.1
(1,1054)	1:47:A:THR:HG21	1:74:A:PRO:HD3	9	0.1
(1,1054)	1:47:A:THR:HG22	1:74:A:PRO:HD2	9	0.1
(1,1054)	1:47:A:THR:HG22	1:74:A:PRO:HD3	9	0.1
(1,1054)	1:47:A:THR:HG23	1:74:A:PRO:HD2	9	0.1
(1,1054)	1:47:A:THR:HG23	1:74:A:PRO:HD3	9	0.1
(1,992)	1:43:A:LEU:HD11	1:47:A:THR:HB	5	0.1
(1,992)	1:43:A:LEU:HD12	1:47:A:THR:HB	5	0.1
(1,992)	1:43:A:LEU:HD13	1:47:A:THR:HB	5	0.1
(1,947)	1:40:A:LEU:HD21	1:42:A:ALA:H	11	0.1
(1,947)	1:40:A:LEU:HD22	1:42:A:ALA:H	11	0.1
(1,947)	1:40:A:LEU:HD23	1:42:A:ALA:H	11	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,768)	1:31:A:THR:HG21	1:42:A:ALA:HA	19	0.1
(1,768)	1:31:A:THR:HG22	1:42:A:ALA:HA	19	0.1
(1,768)	1:31:A:THR:HG23	1:42:A:ALA:HA	19	0.1
(1,691)	1:23:A:LEU:HD21	1:26:A:ALA:HA	9	0.1
(1,691)	1:23:A:LEU:HD22	1:26:A:ALA:HA	9	0.1
(1,691)	1:23:A:LEU:HD23	1:26:A:ALA:HA	9	0.1
(1,641)	1:20:A:GLU:HG2	1:21:A:ARG:HB2	7	0.1
(1,641)	1:20:A:GLU:HG2	1:21:A:ARG:HB3	7	0.1
(1,641)	1:20:A:GLU:HG3	1:21:A:ARG:HB2	7	0.1
(1,641)	1:20:A:GLU:HG3	1:21:A:ARG:HB3	7	0.1
(1,638)	1:20:A:GLU:HB2	1:32:A:THR:HA	9	0.1
(1,638)	1:20:A:GLU:HB3	1:32:A:THR:HA	9	0.1
(1,638)	1:20:A:GLU:HB2	1:32:A:THR:HA	19	0.1
(1,638)	1:20:A:GLU:HB3	1:32:A:THR:HA	19	0.1
(1,609)	1:19:A:LEU:HD11	1:20:A:GLU:HG2	17	0.1
(1,609)	1:19:A:LEU:HD11	1:20:A:GLU:HG3	17	0.1
(1,609)	1:19:A:LEU:HD12	1:20:A:GLU:HG2	17	0.1
(1,609)	1:19:A:LEU:HD12	1:20:A:GLU:HG3	17	0.1
(1,609)	1:19:A:LEU:HD13	1:20:A:GLU:HG2	17	0.1
(1,609)	1:19:A:LEU:HD13	1:20:A:GLU:HG3	17	0.1
(1,609)	1:19:A:LEU:HD11	1:20:A:GLU:HG2	21	0.1
(1,609)	1:19:A:LEU:HD11	1:20:A:GLU:HG3	21	0.1
(1,609)	1:19:A:LEU:HD12	1:20:A:GLU:HG2	21	0.1
(1,609)	1:19:A:LEU:HD12	1:20:A:GLU:HG3	21	0.1
(1,609)	1:19:A:LEU:HD13	1:20:A:GLU:HG2	21	0.1
(1,609)	1:19:A:LEU:HD13	1:20:A:GLU:HG3	21	0.1
(1,442)	1:13:A:SER:H	1:17:A:TRP:H	7	0.1
(1,442)	1:13:A:SER:H	1:17:A:TRP:H	22	0.1
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG21	4	0.1
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG22	4	0.1
(1,438)	1:13:A:SER:H	1:15:A:ILE:HG23	4	0.1
(1,415)	1:12:A:ASP:H	1:15:A:ILE:HA	6	0.1
(1,410)	1:11:A:ASP:HB2	1:55:A:ILE:HA	2	0.1
(1,410)	1:11:A:ASP:HB3	1:55:A:ILE:HA	2	0.1
(1,409)	1:11:A:ASP:HB2	1:15:A:ILE:HB	8	0.1
(1,409)	1:11:A:ASP:HB3	1:15:A:ILE:HB	8	0.1
(1,401)	1:10:A:ASP:HB2	1:55:A:ILE:HA	7	0.1
(1,401)	1:10:A:ASP:HB3	1:55:A:ILE:HA	7	0.1
(1,353)	1:9:A:VAL:HG11	1:35:A:ASN:HA	10	0.1
(1,353)	1:9:A:VAL:HG12	1:35:A:ASN:HA	10	0.1
(1,353)	1:9:A:VAL:HG13	1:35:A:ASN:HA	10	0.1
(1,346)	1:9:A:VAL:HG11	1:11:A:ASP:H	1	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,346)	1:9:A:VAL:HG12	1:11:A:ASP:H	1	0.1
(1,346)	1:9:A:VAL:HG13	1:11:A:ASP:H	1	0.1
(1,346)	1:9:A:VAL:HG11	1:11:A:ASP:H	12	0.1
(1,346)	1:9:A:VAL:HG12	1:11:A:ASP:H	12	0.1
(1,346)	1:9:A:VAL:HG13	1:11:A:ASP:H	12	0.1
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD21	1	0.1
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD22	1	0.1
(1,324)	1:9:A:VAL:H	1:19:A:LEU:HD23	1	0.1
(1,297)	1:8:A:VAL:HA	1:52:A:LEU:HG	6	0.1
(1,297)	1:8:A:VAL:HA	1:52:A:LEU:HG	8	0.1
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	21	0.1
(1,277)	1:7:A:TRP:HZ3	1:48:A:PRO:HA	22	0.1
(1,250)	1:7:A:TRP:HZ2	1:42:A:ALA:HA	6	0.1
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG21	4	0.1
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG22	4	0.1
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG23	4	0.1
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG21	23	0.1
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG22	23	0.1
(1,187)	1:7:A:TRP:HD1	1:32:A:THR:HG23	23	0.1
(1,89)	1:5:A:ILE:HG21	1:51:A:LEU:HA	17	0.1
(1,89)	1:5:A:ILE:HG22	1:51:A:LEU:HA	17	0.1
(1,89)	1:5:A:ILE:HG23	1:51:A:LEU:HA	17	0.1
(1,13)	1:3:A:ARG:HA	1:5:A:ILE:HD11	2	0.1
(1,13)	1:3:A:ARG:HA	1:5:A:ILE:HD12	2	0.1
(1,13)	1:3:A:ARG:HA	1:5:A:ILE:HD13	2	0.1

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

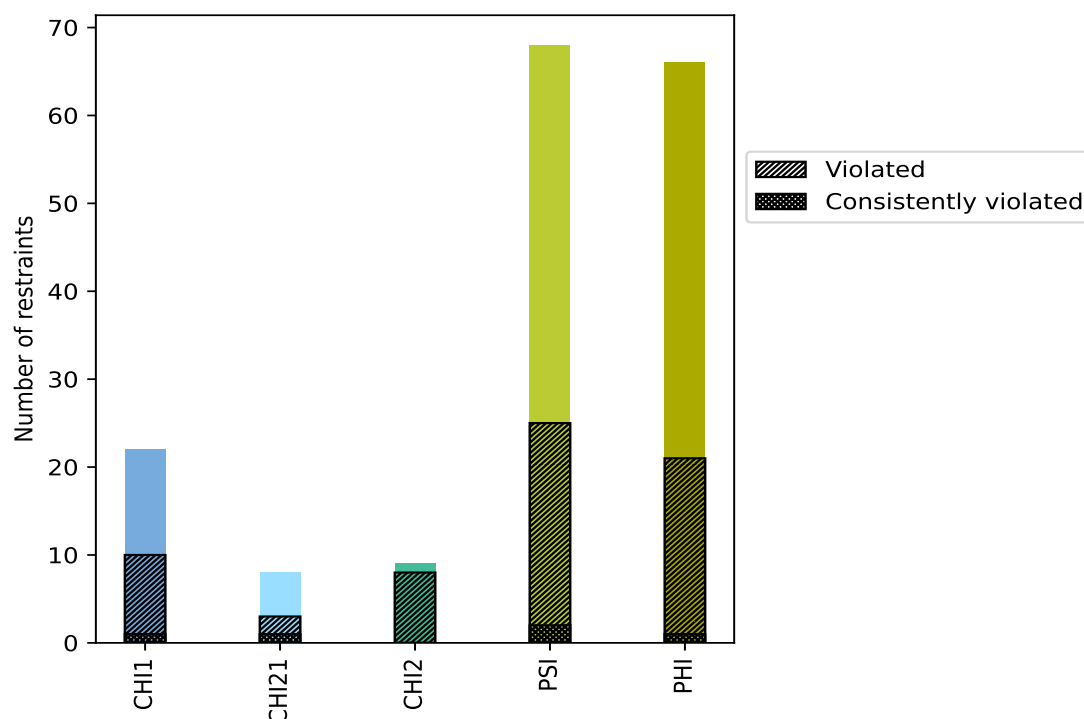
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
CHI1	22	12.7	10	45.5	5.8	1	4.5	0.6
CHI21	8	4.6	3	37.5	1.7	1	12.5	0.6
CHI2	9	5.2	8	88.9	4.6	0	0.0	0.0
PSI	68	39.3	25	36.8	14.5	2	2.9	1.2
PHI	66	38.2	21	31.8	12.1	1	1.5	0.6
Total	173	100.0	67	38.7	38.7	5	2.9	2.9

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

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



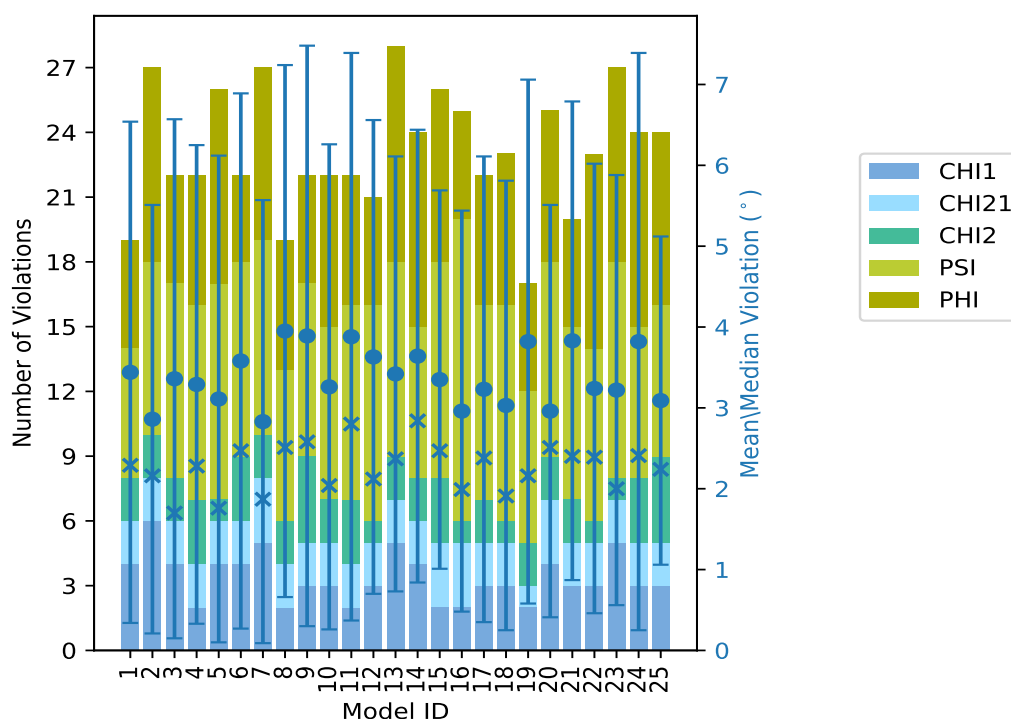
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model

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

Model ID	Number of violations						Mean (°)	Max (°)	SD (°)	Median (°)
	CHI1	CHI21	CHI2	PSI	PHI	Total				
1	4	2	2	6	5	19	3.44	12.59	3.1	2.29
2	6	2	2	8	9	27	2.86	12.5	2.65	2.16
3	4	2	2	9	5	22	3.36	13.56	3.21	1.7
4	2	2	3	9	6	22	3.29	12.58	2.96	2.28
5	4	2	1	10	9	26	3.11	13.06	3.01	1.76
6	4	2	3	9	4	22	3.58	13.99	3.31	2.47
7	5	3	2	9	8	27	2.83	12.56	2.74	1.87
8	2	2	2	7	6	19	3.95	13.64	3.29	2.51
9	3	2	4	8	5	22	3.89	12.99	3.59	2.58
10	3	2	2	8	7	22	3.26	12.12	3.0	2.04
11	2	2	3	9	6	22	3.88	13.92	3.51	2.8
12	3	2	1	10	5	21	3.63	12.01	2.93	2.12
13	5	2	2	9	10	28	3.42	12.98	2.69	2.37
14	4	2	2	7	9	24	3.64	12.43	2.8	2.84
15	2	3	3	10	8	26	3.35	10.1	2.34	2.47
16	2	3	1	14	5	25	2.96	10.96	2.48	1.99
17	3	2	2	9	6	22	3.23	12.13	2.88	2.38
18	3	2	1	10	7	23	3.03	12.23	2.78	1.91
19	2	1	2	7	5	17	3.82	12.16	3.24	2.16
20	4	3	2	9	7	25	2.96	11.22	2.55	2.51
21	3	2	2	8	5	20	3.83	11.86	2.96	2.4
22	3	2	1	8	9	23	3.24	11.66	2.78	2.39
23	5	2	1	10	9	27	3.22	11.73	2.66	2.0
24	3	2	3	7	9	24	3.82	12.66	3.57	2.41
25	3	2	4	7	8	24	3.09	8.04	2.03	2.24

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



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

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

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

Number of violated restraints						Fraction of the ensemble	
CHI1	CHI21	CHI2	PSI	PHI	Total	Count ¹	%
2	0	2	4	5	13	1	4.0
2	0	2	2	3	9	2	8.0
2	0	0	4	1	7	3	12.0
0	1	0	0	1	2	4	16.0
0	0	1	1	0	2	5	20.0
0	0	0	2	1	3	6	24.0
0	0	0	3	1	4	7	28.0
0	0	1	2	0	3	8	32.0
0	0	0	0	1	1	9	36.0
0	0	0	1	1	2	10	40.0
1	0	0	0	0	1	11	44.0

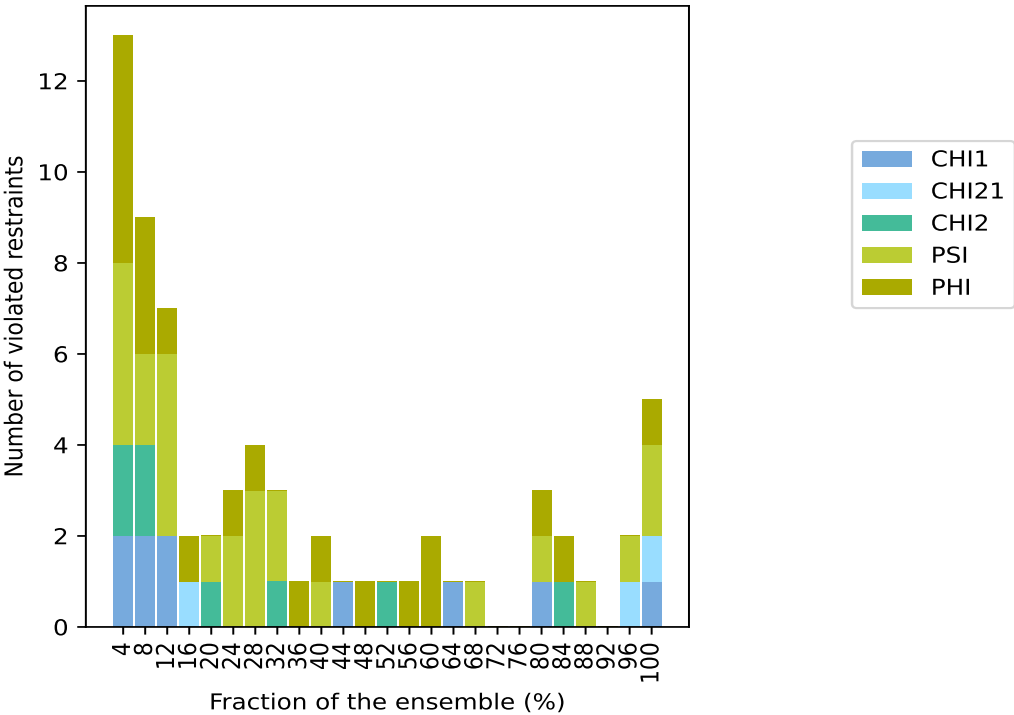
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Number of violated restraints						Fraction of the ensemble	
CHI1	CHI21	CHI2	PSI	PHI	Total	Count ¹	%
0	0	0	0	1	1	12	48.0
0	0	1	0	0	1	13	52.0
0	0	0	0	1	1	14	56.0
0	0	0	0	2	2	15	60.0
1	0	0	0	0	1	16	64.0
0	0	0	1	0	1	17	68.0
0	0	0	0	0	0	18	72.0
0	0	0	0	0	0	19	76.0
1	0	0	1	1	3	20	80.0
0	0	1	0	1	2	21	84.0
0	0	0	1	0	1	22	88.0
0	0	0	0	0	0	23	92.0
0	1	0	1	0	2	24	96.0
1	1	0	2	1	5	25	100.0

¹ Number of models with violations

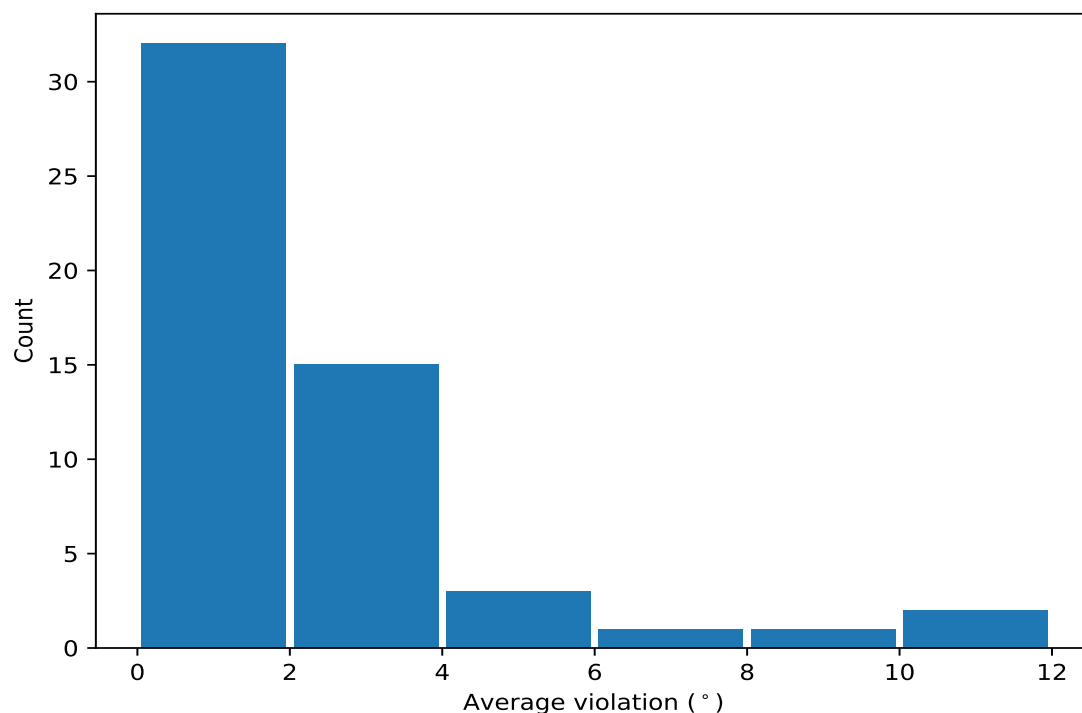
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble ⓘ



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

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

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Media
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	25	11.67	1.54	12.13
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	25	10.81	1.58	11.42
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	25	4.46	0.57	4.31
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	25	3.93	1.77	4.15
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	25	3.29	1.04	3.28
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	24	3.05	0.36	3.12
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	24	2.07	0.41	1.97
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	22	4.21	0.89	4.38
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	21	2.0	0.53	1.87
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	21	1.61	0.53	1.45
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	20	3.17	1.0	3.1
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	20	2.79	1.0	2.68
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	20	2.41	1.31	1.9

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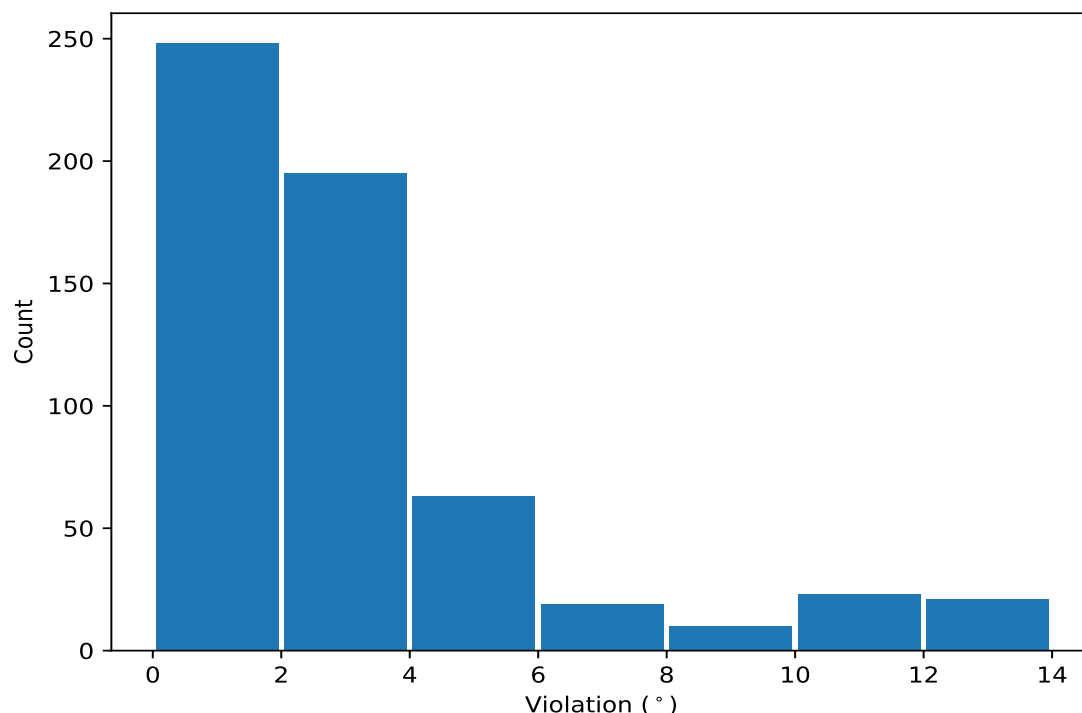
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Media
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	17	1.89	0.52	1.91
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	16	5.89	2.47	6.98
(1,54)	1:15:A:ILE:C	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	15	2.47	0.68	2.34
(1,94)	1:62:A:GLY:C	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	15	1.7	0.74	1.41
(1,128)	1:88:A:ASP:C	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	14	1.96	0.36	1.99
(1,10)	1:19:A:LEU:CA	1:19:A:LEU:CB	1:19:A:LEU:CG	1:19:A:LEU:CD1	13	2.04	0.68	2.0
(1,48)	1:12:A:ASP:C	1:13:A:SER:N	1:13:A:SER:CA	1:13:A:SER:C	12	1.71	0.55	1.62
(1,14)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:CB	1:31:A:THR:OG1	11	1.45	0.28	1.4
(1,76)	1:31:A:THR:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	10	1.75	0.44	1.62
(1,99)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:LEU:N	10	1.53	0.28	1.57
(1,40)	1:4:A:GLY:C	1:5:A:ILE:N	1:5:A:ILE:CA	1:5:A:ILE:C	9	1.75	0.58	1.57
(1,57)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:C	1:18:A:VAL:N	8	2.61	0.87	2.58
(1,34)	1:102:A:LEU:CA	1:102:A:LEU:CB	1:102:A:LEU:CG	1:102:A:LEU:CD1	8	1.58	0.64	1.36
(1,121)	1:80:A:ILE:N	1:80:A:ILE:CA	1:80:A:ILE:C	1:81:A:MET:N	8	1.36	0.31	1.23
(1,143)	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	1:97:A:GLY:N	7	3.55	1.72	3.76
(1,123)	1:81:A:MET:N	1:81:A:MET:CA	1:81:A:MET:C	1:82:A:THR:N	7	2.21	1.81	1.44
(1,77)	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	1:33:A:PHE:N	7	1.41	0.25	1.34
(1,126)	1:87:A:LEU:C	1:88:A:ASP:N	1:88:A:ASP:CA	1:88:A:ASP:C	7	1.23	0.12	1.29
(1,98)	1:64:A:ALA:C	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	6	3.16	1.46	3.34
(1,81)	1:38:A:GLU:N	1:38:A:GLU:CA	1:38:A:GLU:C	1:39:A:VAL:N	6	1.61	0.38	1.58
(1,131)	1:90:A:ALA:N	1:90:A:ALA:CA	1:90:A:ALA:C	1:91:A:VAL:N	6	1.44	0.68	1.15
(1,22)	1:65:A:LEU:CA	1:65:A:LEU:CB	1:65:A:LEU:CG	1:65:A:LEU:CD1	5	8.59	5.37	11.92
(1,55)	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	1:17:A:TRP:N	5	1.39	0.25	1.36
(1,136)	1:92:A:SER:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	4	7.06	0.29	7.1
(1,21)	1:55:A:ILE:CA	1:55:A:ILE:CB	1:55:A:ILE:CG1	1:55:A:ILE:CD1	4	1.32	0.05	1.3
(1,116)	1:76:A:LEU:N	1:76:A:LEU:CA	1:76:A:LEU:C	1:77:A:PRO:N	3	1.74	0.34	1.53
(1,51)	1:14:A:SER:N	1:14:A:SER:CA	1:14:A:SER:C	1:15:A:ILE:N	3	1.64	0.37	1.87
(1,96)	1:63:A:LEU:C	1:64:A:ALA:N	1:64:A:ALA:CA	1:64:A:ALA:C	3	1.56	0.28	1.75
(1,31)	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:CB	1:91:A:VAL:CG1	3	1.52	0.15	1.54
(1,47)	1:8:A:VAL:N	1:8:A:VAL:CA	1:8:A:VAL:C	1:9:A:VAL:N	3	1.49	0.2	1.63
(1,17)	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:CB	1:39:A:VAL:CG1	3	1.32	0.21	1.33
(1,117)	1:77:A:PRO:N	1:77:A:PRO:CA	1:77:A:PRO:C	1:78:A:VAL:N	3	1.3	0.14	1.27
(1,18)	1:40:A:LEU:CA	1:40:A:LEU:CB	1:40:A:LEU:CG	1:40:A:LEU:CD1	2	3.26	0.15	3.26
(1,97)	1:64:A:ALA:N	1:64:A:ALA:CA	1:64:A:ALA:C	1:65:A:LEU:N	2	1.94	0.84	1.94
(1,93)	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	1:45:A:SER:N	2	1.68	0.55	1.68
(1,11)	1:23:A:LEU:CA	1:23:A:LEU:CB	1:23:A:LEU:CG	1:23:A:LEU:CD1	2	1.62	0.18	1.62
(1,60)	1:18:A:VAL:C	1:19:A:LEU:N	1:19:A:LEU:CA	1:19:A:LEU:C	2	1.56	0.15	1.56
(1,33)	1:101:A:TYR:N	1:101:A:TYR:CA	1:101:A:TYR:CB	1:101:A:TYR:CG	2	1.54	0.5	1.54
(1,46)	1:7:A:TRP:C	1:8:A:VAL:N	1:8:A:VAL:CA	1:8:A:VAL:C	2	1.39	0.35	1.39
(1,62)	1:19:A:LEU:C	1:20:A:GLU:N	1:20:A:GLU:CA	1:20:A:GLU:C	2	1.28	0.22	1.28
(1,28)	1:80:A:ILE:N	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	2	1.25	0.11	1.25

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

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

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

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	6	13.99
(1,22)	1:65:A:LEU:CA	1:65:A:LEU:CB	1:65:A:LEU:CG	1:65:A:LEU:CD1	11	13.92
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	8	13.64
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	3	13.56
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	5	13.06
(1,22)	1:65:A:LEU:CA	1:65:A:LEU:CB	1:65:A:LEU:CG	1:65:A:LEU:CD1	9	12.99
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	13	12.98
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	9	12.75
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	24	12.66
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	1	12.59
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	4	12.58
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	7	12.56
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	2	12.5
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	14	12.43

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	11	12.25
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	18	12.23
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	19	12.16
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	17	12.13
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	10	12.12
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	5	12.02
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	12	12.01
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	24	11.93
(1,22)	1:65:A:LEU:CA	1:65:A:LEU:CB	1:65:A:LEU:CG	1:65:A:LEU:CD1	24	11.92
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	9	11.86
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	21	11.86
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	23	11.73
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	10	11.71
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	22	11.66
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	17	11.63
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	4	11.54
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	22	11.46
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	6	11.42
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	20	11.22
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	1	11.2
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	8	11.15
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	3	10.97
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	16	10.96
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	21	10.86
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	7	10.78
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	20	10.74
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	2	10.73
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	19	10.65
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	18	10.49
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	15	10.1
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	16	9.69
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	12	9.29
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	11	8.94
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	13	8.91
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	24	8.49
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	14	8.36
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	23	8.36
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	6	8.32
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	15	8.2
(1,32)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:CB	1:94:A:TYR:CG	25	8.04
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	19	7.99
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	8	7.74
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	21	7.73
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	14	7.72
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	12	7.52
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	11	7.51
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	13	7.5
(1,136)	1:92:A:SER:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	23	7.36
(1,136)	1:92:A:SER:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	14	7.34
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	23	7.16
(1,136)	1:92:A:SER:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	13	6.85

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	3	6.8
(1,136)	1:92:A:SER:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	15	6.71
(1,141)	1:95:A:GLN:N	1:95:A:GLN:CA	1:95:A:GLN:C	1:96:A:GLN:N	25	6.65
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	10	6.61
(1,123)	1:81:A:MET:N	1:81:A:MET:CA	1:81:A:MET:C	1:82:A:THR:N	12	6.56
(1,143)	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	1:97:A:GLY:N	25	6.55
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	15	6.08
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	12	6.02
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	25	5.89
(1,98)	1:64:A:ALA:C	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	24	5.8
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	25	5.68
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	21	5.62
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	23	5.6
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	14	5.57
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	9	5.32
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	16	5.28
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	15	5.25
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	15	5.16
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	23	5.15
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	13	5.13
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	18	5.07
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	18	5.07
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	5	5.06
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	5	5.06
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	14	5.03
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	16	4.97
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	4	4.95
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	7	4.87
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	3	4.84
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	21	4.79
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	5	4.79
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	11	4.76
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	15	4.72
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	6	4.72
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	1	4.71
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	22	4.71
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	7	4.7
(1,143)	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	1:97:A:GLY:N	15	4.69
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	22	4.68
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	12	4.67
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	20	4.67
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	1	4.64
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	19	4.58
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	21	4.57
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	8	4.55
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	17	4.44
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	13	4.44
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	2	4.44
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	16	4.43
(1,57)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:C	1:18:A:VAL:N	8	4.41
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	20	4.41

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	9	4.32
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	19	4.31
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	4	4.31
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	16	4.28
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	2	4.27
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	13	4.27
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	7	4.25
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	10	4.22
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	15	4.22
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	3	4.21
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	5	4.19
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	3	4.15
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	22	4.15
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	4	4.13
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	24	4.11
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	25	4.11
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	8	4.1
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	14	4.08
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	14	4.01
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	6	4.0
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	9	3.99
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	25	3.98
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	6	3.95
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	3	3.93
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	25	3.91
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	13	3.91
(1,143)	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	1:97:A:GLY:N	13	3.89
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	17	3.88
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	24	3.86
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	12	3.86
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	2	3.84
(1,143)	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	1:97:A:GLY:N	23	3.76
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	19	3.71
(1,54)	1:15:A:ILE:C	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	1	3.7
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	4	3.69
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	8	3.67
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	23	3.67
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	21	3.67
(1,94)	1:62:A:GLY:C	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	14	3.66
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	13	3.65
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	5	3.65
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	23	3.63
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	1	3.58
(1,10)	1:19:A:LEU:CA	1:19:A:LEU:CB	1:19:A:LEU:CG	1:19:A:LEU:CD1	11	3.57
(1,98)	1:64:A:ALA:C	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	9	3.53
(1,98)	1:64:A:ALA:C	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	11	3.51
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	5	3.49
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	10	3.47
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	7	3.45
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	17	3.45
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	25	3.45

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	24	3.43
(1,18)	1:40:A:LEU:CA	1:40:A:LEU:CB	1:40:A:LEU:CG	1:40:A:LEU:CD1	19	3.41
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	9	3.41
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	18	3.4
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	11	3.39
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	11	3.39
(1,143)	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	1:97:A:GLY:N	14	3.36
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	7	3.34
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	8	3.32
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	8	3.3
(1,54)	1:15:A:ILE:C	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	5	3.3
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	10	3.29
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	10	3.29
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	19	3.28
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	17	3.28
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	24	3.26
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	23	3.24
(1,94)	1:62:A:GLY:C	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	20	3.23
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	17	3.22
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	22	3.19
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	16	3.18
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	3	3.17
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	22	3.17
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	13	3.17
(1,98)	1:64:A:ALA:C	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	18	3.16
(1,34)	1:102:A:LEU:CA	1:102:A:LEU:CB	1:102:A:LEU:CG	1:102:A:LEU:CD1	4	3.16
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	21	3.15
(1,145)	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	1:98:A:ALA:N	20	3.11
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	12	3.11
(1,18)	1:40:A:LEU:CA	1:40:A:LEU:CB	1:40:A:LEU:CG	1:40:A:LEU:CD1	20	3.11
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	6	3.1
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	14	3.1
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	22	3.1
(1,54)	1:15:A:ILE:C	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	13	3.09
(1,138)	1:93:A:ALA:C	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	25	3.08
(1,54)	1:15:A:ILE:C	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	14	3.08
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	17	3.08
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	3	3.06
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	16	3.06
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	6	3.06
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	11	3.02
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	1	3.02
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	22	3.02
(1,48)	1:12:A:ASP:C	1:13:A:SER:N	1:13:A:SER:CA	1:13:A:SER:C	22	3.02
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	23	3.0
(1,131)	1:90:A:ALA:N	1:90:A:ALA:CA	1:90:A:ALA:C	1:91:A:VAL:N	15	2.96
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	2	2.95
(1,10)	1:19:A:LEU:CA	1:19:A:LEU:CB	1:19:A:LEU:CG	1:19:A:LEU:CD1	10	2.95
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	2	2.94
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	11	2.93
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	4	2.92

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,57)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:C	1:18:A:VAL:N	21	2.91
(1,57)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:C	1:18:A:VAL:N	6	2.9
(1,54)	1:15:A:ILE:C	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	2	2.89
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	17	2.88
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	24	2.86
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	6	2.83
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	3	2.82
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	20	2.81
(1,54)	1:15:A:ILE:C	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	24	2.8
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	15	2.79
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	24	2.78
(1,97)	1:64:A:ALA:N	1:64:A:ALA:CA	1:64:A:ALA:C	1:65:A:LEU:N	18	2.78
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	20	2.77
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	1	2.75
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	10	2.73
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	2	2.69
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	15	2.69
(1,54)	1:15:A:ILE:C	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	20	2.68
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	11	2.66
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	12	2.66
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	7	2.66
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	17	2.65
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	5	2.63
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	1	2.63
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	9	2.63
(1,10)	1:19:A:LEU:CA	1:19:A:LEU:CB	1:19:A:LEU:CG	1:19:A:LEU:CD1	6	2.63
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	20	2.63
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	9	2.62
(1,95)	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1:64:A:ALA:N	20	2.62
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	15	2.61
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	14	2.6
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	9	2.58
(1,57)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:C	1:18:A:VAL:N	9	2.58
(1,57)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:C	1:18:A:VAL:N	17	2.57
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	7	2.55
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	23	2.53
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	7	2.52
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	21	2.52
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	22	2.52
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	8	2.51
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	20	2.51
(1,76)	1:31:A:THR:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	8	2.5
(1,10)	1:19:A:LEU:CA	1:19:A:LEU:CB	1:19:A:LEU:CG	1:19:A:LEU:CD1	25	2.47
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	4	2.45
(1,40)	1:4:A:GLY:C	1:5:A:ILE:N	1:5:A:ILE:CA	1:5:A:ILE:C	5	2.45
(1,76)	1:31:A:THR:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	4	2.44
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	23	2.44
(1,40)	1:4:A:GLY:C	1:5:A:ILE:N	1:5:A:ILE:CA	1:5:A:ILE:C	13	2.42
(1,48)	1:12:A:ASP:C	1:13:A:SER:N	1:13:A:SER:CA	1:13:A:SER:C	2	2.41
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	16	2.4
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	8	2.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	22	2.39
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	13	2.39
(1,128)	1:88:A:ASP:C	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	22	2.38
(1,22)	1:65:A:LEU:CA	1:65:A:LEU:CB	1:65:A:LEU:CG	1:65:A:LEU:CD1	14	2.36
(1,40)	1:4:A:GLY:C	1:5:A:ILE:N	1:5:A:ILE:CA	1:5:A:ILE:C	11	2.35
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	13	2.35
(1,54)	1:15:A:ILE:C	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	15	2.34
(1,54)	1:15:A:ILE:C	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	22	2.34
(1,128)	1:88:A:ASP:C	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	2	2.33
(1,128)	1:88:A:ASP:C	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	6	2.32
(1,57)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:C	1:18:A:VAL:N	4	2.32
(1,40)	1:4:A:GLY:C	1:5:A:ILE:N	1:5:A:ILE:CA	1:5:A:ILE:C	18	2.31
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	1	2.29
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	1	2.27
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	21	2.27
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	25	2.27
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	2	2.26
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	9	2.25
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	4	2.25
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	16	2.24
(1,123)	1:81:A:MET:N	1:81:A:MET:CA	1:81:A:MET:C	1:82:A:THR:N	16	2.23
(1,116)	1:76:A:LEU:N	1:76:A:LEU:CA	1:76:A:LEU:C	1:77:A:PRO:N	12	2.22
(1,93)	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	1:45:A:SER:N	21	2.22
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	11	2.22
(1,133)	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:C	1:92:A:SER:N	25	2.21
(1,128)	1:88:A:ASP:C	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	21	2.21
(1,35)	1:108:A:ILE:CA	1:108:A:ILE:CB	1:108:A:ILE:CG1	1:108:A:ILE:CD1	18	2.21
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	17	2.2
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	2	2.2
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	6	2.17
(1,94)	1:62:A:GLY:C	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	2	2.16
(1,81)	1:38:A:GLU:N	1:38:A:GLU:CA	1:38:A:GLU:C	1:39:A:VAL:N	19	2.16
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	25	2.15
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	9	2.14
(1,54)	1:15:A:ILE:C	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	18	2.14
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	2	2.14
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	10	2.14
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	14	2.14
(1,128)	1:88:A:ASP:C	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	19	2.13
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	12	2.12
(1,128)	1:88:A:ASP:C	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	8	2.11
(1,54)	1:15:A:ILE:C	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	12	2.11
(1,48)	1:12:A:ASP:C	1:13:A:SER:N	1:13:A:SER:CA	1:13:A:SER:C	13	2.1
(1,57)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:C	1:18:A:VAL:N	16	2.09
(1,14)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:CB	1:31:A:THR:OG1	10	2.09
(1,76)	1:31:A:THR:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	5	2.08
(1,10)	1:19:A:LEU:CA	1:19:A:LEU:CB	1:19:A:LEU:CG	1:19:A:LEU:CD1	9	2.08
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	2	2.07
(1,10)	1:19:A:LEU:CA	1:19:A:LEU:CB	1:19:A:LEU:CG	1:19:A:LEU:CD1	17	2.07
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	1	2.06
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	6	2.06

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	24	2.04
(1,33)	1:101:A:TYR:N	1:101:A:TYR:CA	1:101:A:TYR:CB	1:101:A:TYR:CG	17	2.04
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	21	2.03
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	6	2.03
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	4	2.01
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	13	2.0
(1,128)	1:88:A:ASP:C	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	23	2.0
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	15	2.0
(1,54)	1:15:A:ILE:C	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	19	2.0
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	7	2.0
(1,10)	1:19:A:LEU:CA	1:19:A:LEU:CB	1:19:A:LEU:CG	1:19:A:LEU:CD1	15	2.0
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	16	1.99
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	18	1.99
(1,128)	1:88:A:ASP:C	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	24	1.98
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	21	1.98
(1,54)	1:15:A:ILE:C	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	10	1.98
(1,128)	1:88:A:ASP:C	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	12	1.97
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	19	1.95
(1,128)	1:88:A:ASP:C	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	14	1.95
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	12	1.94
(1,121)	1:80:A:ILE:N	1:80:A:ILE:CA	1:80:A:ILE:C	1:81:A:MET:N	13	1.93
(1,81)	1:38:A:GLU:N	1:38:A:GLU:CA	1:38:A:GLU:C	1:39:A:VAL:N	7	1.93
(1,51)	1:14:A:SER:N	1:14:A:SER:CA	1:14:A:SER:C	1:15:A:ILE:N	16	1.93
(1,128)	1:88:A:ASP:C	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	7	1.92
(1,99)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:LEU:N	15	1.92
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	11	1.91
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	20	1.91
(1,48)	1:12:A:ASP:C	1:13:A:SER:N	1:13:A:SER:CA	1:13:A:SER:C	18	1.91
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	8	1.9
(1,99)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:LEU:N	17	1.89
(1,139)	1:94:A:TYR:N	1:94:A:TYR:CA	1:94:A:TYR:C	1:95:A:GLN:N	7	1.87
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	8	1.87
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	24	1.87
(1,77)	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	1:33:A:PHE:N	12	1.87
(1,51)	1:14:A:SER:N	1:14:A:SER:CA	1:14:A:SER:C	1:15:A:ILE:N	9	1.87
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	20	1.85
(1,81)	1:38:A:GLU:N	1:38:A:GLU:CA	1:38:A:GLU:C	1:39:A:VAL:N	20	1.85
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	18	1.84
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	14	1.84
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	1	1.84
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	22	1.83
(1,121)	1:80:A:ILE:N	1:80:A:ILE:CA	1:80:A:ILE:C	1:81:A:MET:N	17	1.83
(1,94)	1:62:A:GLY:C	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	1	1.83
(1,55)	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	1:17:A:TRP:N	13	1.83
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	18	1.82
(1,34)	1:102:A:LEU:CA	1:102:A:LEU:CB	1:102:A:LEU:CG	1:102:A:LEU:CD1	24	1.82
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	4	1.81
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	5	1.81
(1,48)	1:12:A:ASP:C	1:13:A:SER:N	1:13:A:SER:CA	1:13:A:SER:C	10	1.81
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	24	1.8
(1,11)	1:23:A:LEU:CA	1:23:A:LEU:CB	1:23:A:LEU:CG	1:23:A:LEU:CD1	18	1.79

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,10)	1:19:A:LEU:CA	1:19:A:LEU:CB	1:19:A:LEU:CG	1:19:A:LEU:CD1	3	1.79
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	10	1.78
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	10	1.78
(1,22)	1:65:A:LEU:CA	1:65:A:LEU:CB	1:65:A:LEU:CG	1:65:A:LEU:CD1	4	1.78
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	19	1.77
(1,96)	1:63:A:LEU:C	1:64:A:ALA:N	1:64:A:ALA:CA	1:64:A:ALA:C	9	1.76
(1,12)	1:28:A:LEU:CA	1:28:A:LEU:CB	1:28:A:LEU:CG	1:28:A:LEU:CD1	15	1.76
(1,96)	1:63:A:LEU:C	1:64:A:ALA:N	1:64:A:ALA:CA	1:64:A:ALA:C	21	1.75
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	8	1.75
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	13	1.75
(1,46)	1:7:A:TRP:C	1:8:A:VAL:N	1:8:A:VAL:CA	1:8:A:VAL:C	11	1.74
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	18	1.73
(1,14)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:CB	1:31:A:THR:OG1	21	1.72
(1,128)	1:88:A:ASP:C	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	13	1.71
(1,99)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:LEU:N	23	1.71
(1,14)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:CB	1:31:A:THR:OG1	6	1.71
(1,60)	1:18:A:VAL:C	1:19:A:LEU:N	1:19:A:LEU:CA	1:19:A:LEU:C	5	1.7
(1,76)	1:31:A:THR:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	25	1.69
(1,31)	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:CB	1:91:A:VAL:CG1	7	1.69
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	10	1.68
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	9	1.67
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	21	1.67
(1,77)	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	1:33:A:PHE:N	22	1.66
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	16	1.66
(1,48)	1:12:A:ASP:C	1:13:A:SER:N	1:13:A:SER:CA	1:13:A:SER:C	20	1.66
(1,10)	1:19:A:LEU:CA	1:19:A:LEU:CB	1:19:A:LEU:CG	1:19:A:LEU:CD1	21	1.66
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	23	1.66
(1,99)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:LEU:N	25	1.64
(1,47)	1:8:A:VAL:N	1:8:A:VAL:CA	1:8:A:VAL:C	1:9:A:VAL:N	16	1.64
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	2	1.63
(1,76)	1:31:A:THR:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	17	1.63
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	10	1.63
(1,47)	1:8:A:VAL:N	1:8:A:VAL:CA	1:8:A:VAL:C	1:9:A:VAL:N	18	1.63
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	12	1.62
(1,30)	1:82:A:THR:N	1:82:A:THR:CA	1:82:A:THR:CB	1:82:A:THR:OG1	1	1.62
(1,76)	1:31:A:THR:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	3	1.61
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	9	1.61
(1,99)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:LEU:N	8	1.6
(1,94)	1:62:A:GLY:C	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	22	1.59
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	18	1.59
(1,162)	1:114:A:LEU:C	1:115:A:VAL:N	1:115:A:VAL:CA	1:115:A:VAL:C	4	1.58
(1,123)	1:81:A:MET:N	1:81:A:MET:CA	1:81:A:MET:C	1:82:A:THR:N	23	1.58
(1,76)	1:31:A:THR:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	23	1.58
(1,17)	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:CB	1:39:A:VAL:CG1	2	1.58
(1,48)	1:12:A:ASP:C	1:13:A:SER:N	1:13:A:SER:CA	1:13:A:SER:C	5	1.57
(1,40)	1:4:A:GLY:C	1:5:A:ILE:N	1:5:A:ILE:CA	1:5:A:ILE:C	15	1.57
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	12	1.56
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	3	1.55
(1,98)	1:64:A:ALA:C	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	5	1.55
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	4	1.54
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	16	1.54

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,99)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:LEU:N	7	1.54
(1,31)	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:CB	1:91:A:VAL:CG1	25	1.54
(1,116)	1:76:A:LEU:N	1:76:A:LEU:CA	1:76:A:LEU:C	1:77:A:PRO:N	3	1.53
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	3	1.53
(1,34)	1:102:A:LEU:CA	1:102:A:LEU:CB	1:102:A:LEU:CG	1:102:A:LEU:CD1	25	1.53
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	18	1.53
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	6	1.52
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	15	1.52
(1,76)	1:31:A:THR:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	14	1.51
(1,62)	1:19:A:LEU:C	1:20:A:GLU:N	1:20:A:GLU:CA	1:20:A:GLU:C	4	1.51
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	5	1.51
(1,117)	1:77:A:PRO:N	1:77:A:PRO:CA	1:77:A:PRO:C	1:78:A:VAL:N	4	1.49
(1,94)	1:62:A:GLY:C	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	15	1.49
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	10	1.48
(1,34)	1:102:A:LEU:CA	1:102:A:LEU:CB	1:102:A:LEU:CG	1:102:A:LEU:CD1	5	1.48
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	17	1.46
(1,116)	1:76:A:LEU:N	1:76:A:LEU:CA	1:76:A:LEU:C	1:77:A:PRO:N	6	1.46
(1,14)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:CB	1:31:A:THR:OG1	3	1.46
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	13	1.45
(1,143)	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	1:97:A:GLY:N	16	1.44
(1,123)	1:81:A:MET:N	1:81:A:MET:CA	1:81:A:MET:C	1:82:A:THR:N	11	1.44
(1,99)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:LEU:N	16	1.44
(1,98)	1:64:A:ALA:C	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	10	1.44
(1,77)	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	1:33:A:PHE:N	16	1.44
(1,14)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:CB	1:31:A:THR:OG1	23	1.44
(1,11)	1:23:A:LEU:CA	1:23:A:LEU:CB	1:23:A:LEU:CG	1:23:A:LEU:CD1	20	1.44
(1,94)	1:62:A:GLY:C	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	12	1.42
(1,99)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:LEU:N	22	1.41
(1,94)	1:62:A:GLY:C	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	23	1.41
(1,60)	1:18:A:VAL:C	1:19:A:LEU:N	1:19:A:LEU:CA	1:19:A:LEU:C	13	1.41
(1,55)	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	1:17:A:TRP:N	4	1.41
(1,10)	1:19:A:LEU:CA	1:19:A:LEU:CB	1:19:A:LEU:CG	1:19:A:LEU:CD1	7	1.41
(1,10)	1:19:A:LEU:CA	1:19:A:LEU:CB	1:19:A:LEU:CG	1:19:A:LEU:CD1	8	1.41
(1,134)	1:91:A:VAL:C	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	22	1.4
(1,94)	1:62:A:GLY:C	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	13	1.4
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	14	1.4
(1,21)	1:55:A:ILE:CA	1:55:A:ILE:CB	1:55:A:ILE:CG1	1:55:A:ILE:CD1	15	1.4
(1,14)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:CB	1:31:A:THR:OG1	9	1.4
(1,76)	1:31:A:THR:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	24	1.38
(1,123)	1:81:A:MET:N	1:81:A:MET:CA	1:81:A:MET:C	1:82:A:THR:N	15	1.37
(1,94)	1:62:A:GLY:C	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	21	1.37
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	6	1.36
(1,55)	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	1:17:A:TRP:N	2	1.36
(1,54)	1:15:A:ILE:C	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	25	1.36
(1,48)	1:12:A:ASP:C	1:13:A:SER:N	1:13:A:SER:CA	1:13:A:SER:C	16	1.36
(1,126)	1:87:A:LEU:C	1:88:A:ASP:N	1:88:A:ASP:CA	1:88:A:ASP:C	2	1.35
(1,126)	1:87:A:LEU:C	1:88:A:ASP:N	1:88:A:ASP:CA	1:88:A:ASP:C	22	1.35
(1,28)	1:80:A:ILE:N	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	17	1.35
(1,14)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:CB	1:31:A:THR:OG1	13	1.35
(1,135)	1:92:A:SER:N	1:92:A:SER:CA	1:92:A:SER:C	1:93:A:ALA:N	13	1.34
(1,77)	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	1:33:A:PHE:N	18	1.34

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	12	1.34
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	4	1.33
(1,31)	1:91:A:VAL:N	1:91:A:VAL:CA	1:91:A:VAL:CB	1:91:A:VAL:CG1	2	1.33
(1,17)	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:CB	1:39:A:VAL:CG1	13	1.33
(1,126)	1:87:A:LEU:C	1:88:A:ASP:N	1:88:A:ASP:CA	1:88:A:ASP:C	23	1.32
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	7	1.32
(1,10)	1:19:A:LEU:CA	1:19:A:LEU:CB	1:19:A:LEU:CG	1:19:A:LEU:CD1	2	1.32
(1,9)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:CB	1:17:A:TRP:CG	11	1.32
(1,58)	1:17:A:TRP:C	1:18:A:VAL:N	1:18:A:VAL:CA	1:18:A:VAL:C	20	1.31
(1,21)	1:55:A:ILE:CA	1:55:A:ILE:CB	1:55:A:ILE:CG1	1:55:A:ILE:CD1	7	1.31
(1,81)	1:38:A:GLU:N	1:38:A:GLU:CA	1:38:A:GLU:C	1:39:A:VAL:N	15	1.3
(1,48)	1:12:A:ASP:C	1:13:A:SER:N	1:13:A:SER:CA	1:13:A:SER:C	24	1.3
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	2	1.29
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	20	1.29
(1,126)	1:87:A:LEU:C	1:88:A:ASP:N	1:88:A:ASP:CA	1:88:A:ASP:C	7	1.29
(1,121)	1:80:A:ILE:N	1:80:A:ILE:CA	1:80:A:ILE:C	1:81:A:MET:N	10	1.29
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	19	1.29
(1,21)	1:55:A:ILE:CA	1:55:A:ILE:CB	1:55:A:ILE:CG1	1:55:A:ILE:CD1	20	1.29
(1,14)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:CB	1:31:A:THR:OG1	2	1.29
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	7	1.28
(1,94)	1:62:A:GLY:C	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	25	1.28
(1,4)	1:7:A:TRP:N	1:7:A:TRP:CA	1:7:A:TRP:CB	1:7:A:TRP:CG	20	1.28
(1,117)	1:77:A:PRO:N	1:77:A:PRO:CA	1:77:A:PRO:C	1:78:A:VAL:N	17	1.27
(1,77)	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	1:33:A:PHE:N	4	1.27
(1,55)	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	1:17:A:TRP:N	18	1.27
(1,21)	1:55:A:ILE:CA	1:55:A:ILE:CB	1:55:A:ILE:CG1	1:55:A:ILE:CD1	16	1.27
(1,14)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:CB	1:31:A:THR:OG1	7	1.27
(1,137)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:TYR:N	5	1.26
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	19	1.26
(1,24)	1:76:A:LEU:CA	1:76:A:LEU:CB	1:76:A:LEU:CG	1:76:A:LEU:CD1	25	1.26
(1,131)	1:90:A:ALA:N	1:90:A:ALA:CA	1:90:A:ALA:C	1:91:A:VAL:N	18	1.25
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	5	1.25
(1,34)	1:102:A:LEU:CA	1:102:A:LEU:CB	1:102:A:LEU:CG	1:102:A:LEU:CD1	1	1.25
(1,121)	1:80:A:ILE:N	1:80:A:ILE:CA	1:80:A:ILE:C	1:81:A:MET:N	25	1.24
(1,94)	1:62:A:GLY:C	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	7	1.24
(1,94)	1:62:A:GLY:C	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	16	1.24
(1,81)	1:38:A:GLU:N	1:38:A:GLU:CA	1:38:A:GLU:C	1:39:A:VAL:N	5	1.24
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	5	1.24
(1,121)	1:80:A:ILE:N	1:80:A:ILE:CA	1:80:A:ILE:C	1:81:A:MET:N	24	1.23
(1,40)	1:4:A:GLY:C	1:5:A:ILE:N	1:5:A:ILE:CA	1:5:A:ILE:C	3	1.23
(1,129)	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	1:90:A:ALA:N	12	1.22
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	19	1.22
(1,14)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:CB	1:31:A:THR:OG1	14	1.22
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	3	1.21
(1,47)	1:8:A:VAL:N	1:8:A:VAL:CA	1:8:A:VAL:C	1:9:A:VAL:N	5	1.21
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	22	1.21
(1,34)	1:102:A:LEU:CA	1:102:A:LEU:CB	1:102:A:LEU:CG	1:102:A:LEU:CD1	9	1.21
(1,128)	1:88:A:ASP:C	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	1	1.2
(1,54)	1:15:A:ILE:C	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	7	1.2
(1,131)	1:90:A:ALA:N	1:90:A:ALA:CA	1:90:A:ALA:C	1:91:A:VAL:N	11	1.18
(1,104)	1:67:A:LYS:C	1:68:A:GLN:N	1:68:A:GLN:CA	1:68:A:GLN:C	20	1.18

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,77)	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	1:33:A:PHE:N	20	1.18
(1,48)	1:12:A:ASP:C	1:13:A:SER:N	1:13:A:SER:CA	1:13:A:SER:C	7	1.18
(1,123)	1:81:A:MET:N	1:81:A:MET:CA	1:81:A:MET:C	1:82:A:THR:N	14	1.17
(1,96)	1:63:A:LEU:C	1:64:A:ALA:N	1:64:A:ALA:CA	1:64:A:ALA:C	10	1.17
(1,81)	1:38:A:GLU:N	1:38:A:GLU:CA	1:38:A:GLU:C	1:39:A:VAL:N	23	1.17
(1,40)	1:4:A:GLY:C	1:5:A:ILE:N	1:5:A:ILE:CA	1:5:A:ILE:C	2	1.17
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	16	1.17
(1,10)	1:19:A:LEU:CA	1:19:A:LEU:CB	1:19:A:LEU:CG	1:19:A:LEU:CD1	13	1.17
(1,128)	1:88:A:ASP:C	1:89:A:ALA:N	1:89:A:ALA:CA	1:89:A:ALA:C	18	1.16
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	15	1.16
(1,117)	1:77:A:PRO:N	1:77:A:PRO:CA	1:77:A:PRO:C	1:78:A:VAL:N	10	1.15
(1,40)	1:4:A:GLY:C	1:5:A:ILE:N	1:5:A:ILE:CA	1:5:A:ILE:C	7	1.15
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	2	1.15
(1,126)	1:87:A:LEU:C	1:88:A:ASP:N	1:88:A:ASP:CA	1:88:A:ASP:C	14	1.14
(1,123)	1:81:A:MET:N	1:81:A:MET:CA	1:81:A:MET:C	1:82:A:THR:N	24	1.14
(1,121)	1:80:A:ILE:N	1:80:A:ILE:CA	1:80:A:ILE:C	1:81:A:MET:N	23	1.14
(1,41)	1:5:A:ILE:N	1:5:A:ILE:CA	1:5:A:ILE:C	1:6:A:VAL:N	11	1.14
(1,28)	1:80:A:ILE:N	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	12	1.14
(1,143)	1:96:A:GLN:N	1:96:A:GLN:CA	1:96:A:GLN:C	1:97:A:GLY:N	20	1.13
(1,131)	1:90:A:ALA:N	1:90:A:ALA:CA	1:90:A:ALA:C	1:91:A:VAL:N	16	1.13
(1,121)	1:80:A:ILE:N	1:80:A:ILE:CA	1:80:A:ILE:C	1:81:A:MET:N	3	1.13
(1,99)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:LEU:N	6	1.13
(1,93)	1:44:A:ALA:N	1:44:A:ALA:CA	1:44:A:ALA:C	1:45:A:SER:N	3	1.13
(1,48)	1:12:A:ASP:C	1:13:A:SER:N	1:13:A:SER:CA	1:13:A:SER:C	23	1.13
(1,34)	1:102:A:LEU:CA	1:102:A:LEU:CB	1:102:A:LEU:CG	1:102:A:LEU:CD1	3	1.13
(1,77)	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	1:33:A:PHE:N	24	1.12
(1,48)	1:12:A:ASP:C	1:13:A:SER:N	1:13:A:SER:CA	1:13:A:SER:C	25	1.12
(1,57)	1:17:A:TRP:N	1:17:A:TRP:CA	1:17:A:TRP:C	1:18:A:VAL:N	3	1.11
(1,51)	1:14:A:SER:N	1:14:A:SER:CA	1:14:A:SER:C	1:15:A:ILE:N	14	1.11
(1,29)	1:80:A:ILE:CA	1:80:A:ILE:CB	1:80:A:ILE:CG1	1:80:A:ILE:CD1	9	1.11
(1,144)	1:96:A:GLN:C	1:97:A:GLY:N	1:97:A:GLY:CA	1:97:A:GLY:C	22	1.1
(1,97)	1:64:A:ALA:N	1:64:A:ALA:CA	1:64:A:ALA:C	1:65:A:LEU:N	5	1.1
(1,36)	1:112:A:VAL:N	1:112:A:VAL:CA	1:112:A:VAL:CB	1:112:A:VAL:CG1	25	1.1
(1,126)	1:87:A:LEU:C	1:88:A:ASP:N	1:88:A:ASP:CA	1:88:A:ASP:C	6	1.09
(1,82)	1:38:A:GLU:C	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	23	1.07
(1,55)	1:16:A:ARG:N	1:16:A:ARG:CA	1:16:A:ARG:C	1:17:A:TRP:N	7	1.07
(1,40)	1:4:A:GLY:C	1:5:A:ILE:N	1:5:A:ILE:CA	1:5:A:ILE:C	22	1.07
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	1	1.07
(1,131)	1:90:A:ALA:N	1:90:A:ALA:CA	1:90:A:ALA:C	1:91:A:VAL:N	14	1.06
(1,131)	1:90:A:ALA:N	1:90:A:ALA:CA	1:90:A:ALA:C	1:91:A:VAL:N	23	1.06
(1,121)	1:80:A:ILE:N	1:80:A:ILE:CA	1:80:A:ILE:C	1:81:A:MET:N	5	1.06
(1,94)	1:62:A:GLY:C	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	11	1.06
(1,94)	1:62:A:GLY:C	1:63:A:LEU:N	1:63:A:LEU:CA	1:63:A:LEU:C	17	1.06
(1,62)	1:19:A:LEU:C	1:20:A:GLU:N	1:20:A:GLU:CA	1:20:A:GLU:C	17	1.06
(1,17)	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:CB	1:39:A:VAL:CG1	5	1.06
(1,76)	1:31:A:THR:C	1:32:A:THR:N	1:32:A:THR:CA	1:32:A:THR:C	15	1.05
(1,33)	1:101:A:TYR:N	1:101:A:TYR:CA	1:101:A:TYR:CB	1:101:A:TYR:CG	23	1.05
(1,126)	1:87:A:LEU:C	1:88:A:ASP:N	1:88:A:ASP:CA	1:88:A:ASP:C	8	1.04
(1,75)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:C	1:32:A:THR:N	11	1.04
(1,46)	1:7:A:TRP:C	1:8:A:VAL:N	1:8:A:VAL:CA	1:8:A:VAL:C	24	1.04
(1,34)	1:102:A:LEU:CA	1:102:A:LEU:CB	1:102:A:LEU:CG	1:102:A:LEU:CD1	6	1.04

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,14)	1:31:A:THR:N	1:31:A:THR:CA	1:31:A:THR:CB	1:31:A:THR:OG1	1	1.04
(1,158)	1:112:A:VAL:C	1:113:A:ALA:N	1:113:A:ALA:CA	1:113:A:ALA:C	19	1.03
(1,99)	1:65:A:LEU:N	1:65:A:LEU:CA	1:65:A:LEU:C	1:66:A:LEU:N	2	1.03
(1,37)	1:114:A:LEU:CA	1:114:A:LEU:CB	1:114:A:LEU:CG	1:114:A:LEU:CD1	24	1.0