



Full wwPDB NMR Structure Validation Report ⓘ

Dec 24, 2024 – 04:09 PM EST

PDB ID : 2LIR
BMRB ID : 17903
Title : NMR Solution Structure of Yeast Iso-1-cytochrome c Mutant P71H in oxidized states
Authors : Lan, W.; Wang, Z.; Yang, Z.; Zhu, J.; Ying, T.; Jiang, X.; Zhang, X.; Wu, H.; Liu, M.; Tan, X.; Cao, C.; Huang, Z.X.
Deposited on : 2011-08-31

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Mogul : 2022.3.0, CSD as543be (2022)
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.40

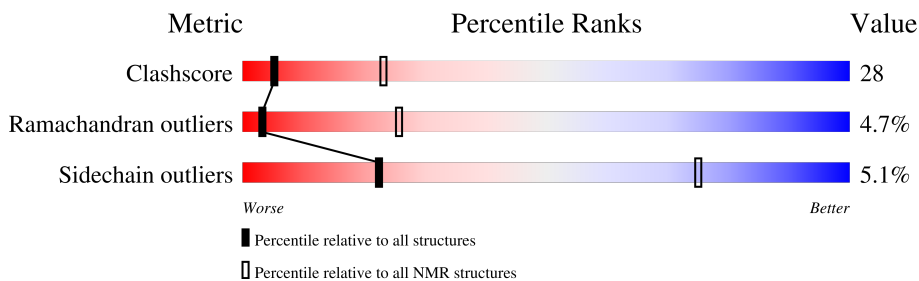
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

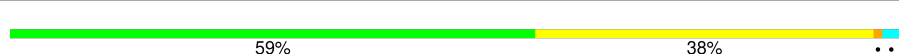
The overall completeness of chemical shifts assignment is 43%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	108	

2 Ensemble composition and analysis

This entry contains 20 models. Model 16 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:-1, A:1-A:103 (106)	0.78	16

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

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

NmrClust was unable to cluster the ensemble.

Error message: 1 Unexpected character

3 Entry composition i

There are 2 unique types of molecules in this entry. The entry contains 1767 atoms, of which 878 are hydrogens and 0 are deuteriums.

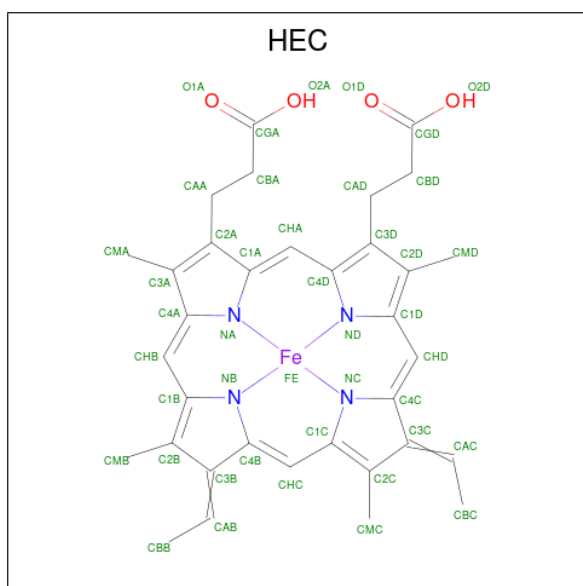
- Molecule 1 is a protein called Cytochrome c iso-1.

Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
1	A	108	1692	533	846	152	157	4	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	71	HIS	PRO	engineered mutation	UNP P00044
A	72	ALA	LYS	engineered mutation	UNP P00044
A	102	THR	CYS	engineered mutation	UNP P00044

- Molecule 2 is HEME C (three-letter code: HEC) (formula: $C_{34}H_{34}FeN_4O_4$).



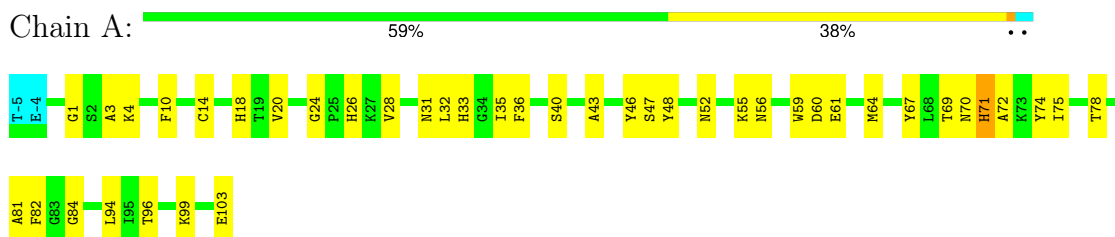
Mol	Chain	Residues	Atoms					
			Total	C	Fe	H	N	O
2	A	1	75	34	1	32	4	4

4 Residue-property plots [i](#)

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Cytochrome c iso-1

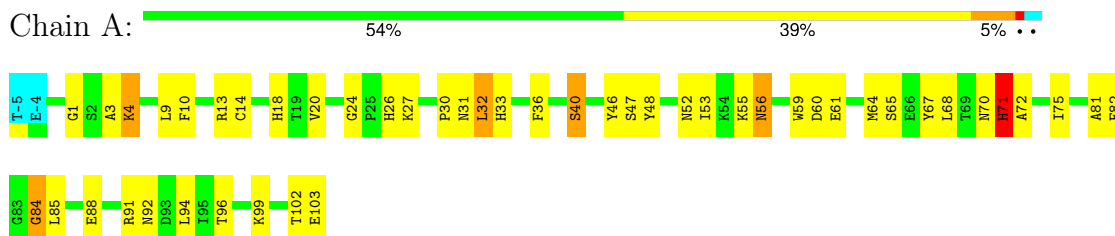


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: Cytochrome c iso-1



4.2.2 Score per residue for model 2

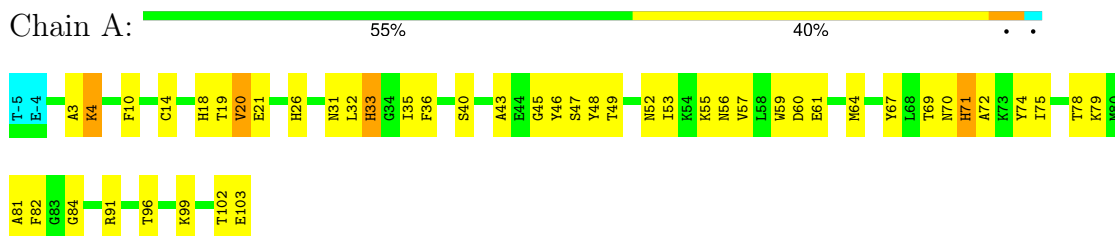
- Molecule 1: Cytochrome c iso-1





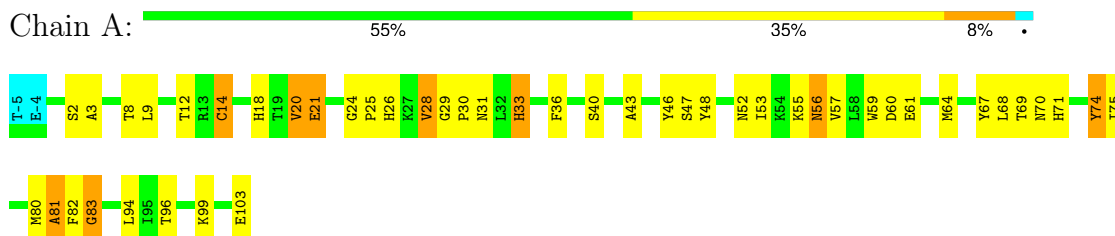
4.2.3 Score per residue for model 3

- Molecule 1: Cytochrome c iso-1



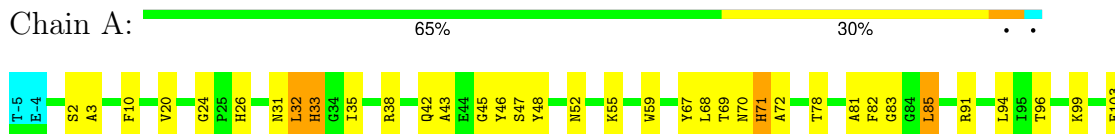
4.2.4 Score per residue for model 4

- Molecule 1: Cytochrome c iso-1



4.2.5 Score per residue for model 5

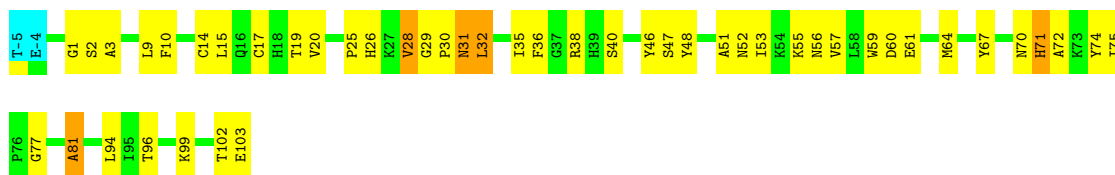
- Molecule 1: Cytochrome c iso-1



4.2.6 Score per residue for model 6

- Molecule 1: Cytochrome c iso-1

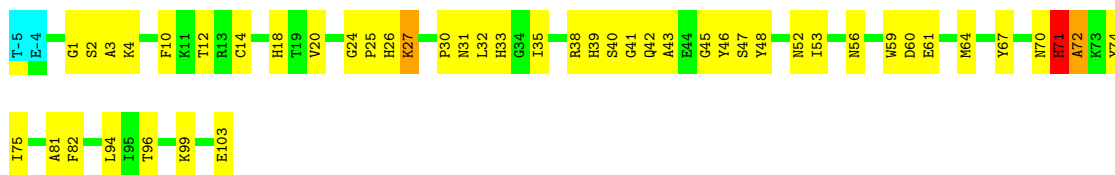




4.2.7 Score per residue for model 7

- Molecule 1: Cytochrome c iso-1

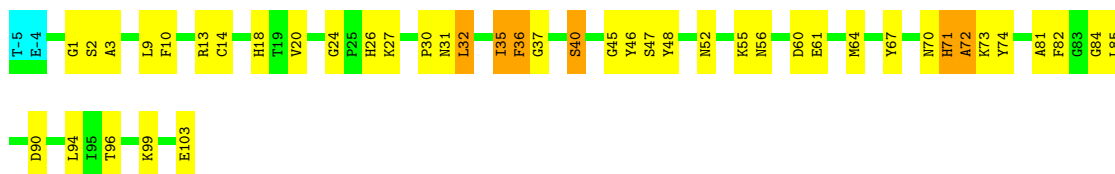
Chain A: 55% 41%



4.2.8 Score per residue for model 8

- Molecule 1: Cytochrome c iso-1

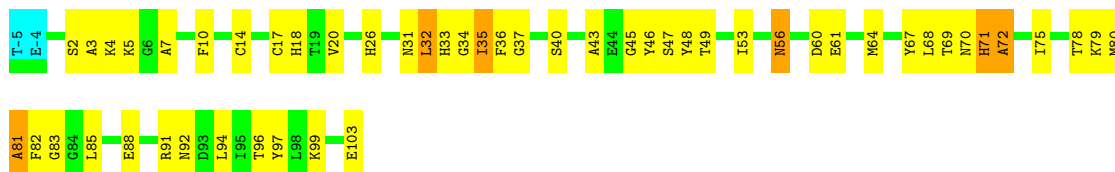
Chain A: 57% 35% 6%



4.2.9 Score per residue for model 9

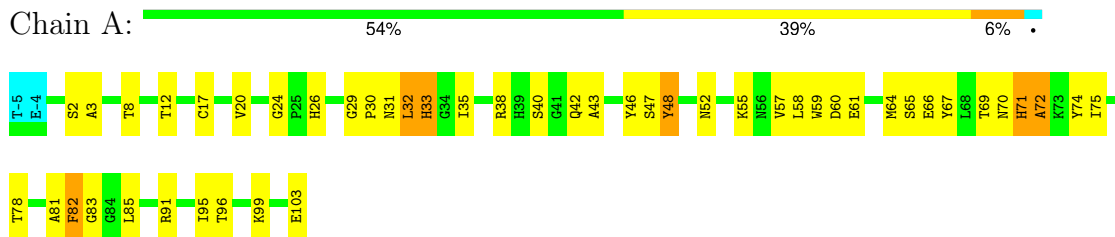
- Molecule 1: Cytochrome c iso-1

Chain A: 50% 43% 6%



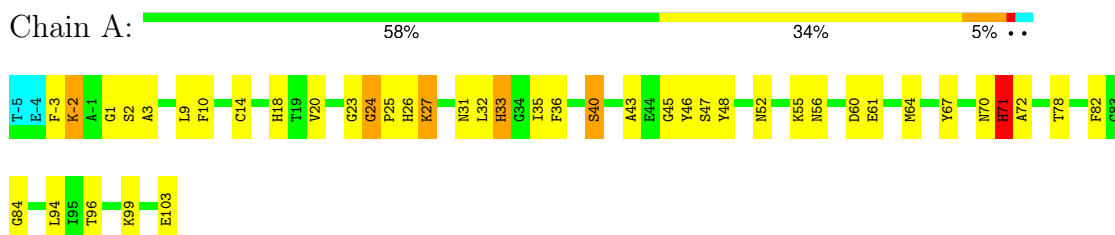
4.2.10 Score per residue for model 10

- Molecule 1: Cytochrome c iso-1



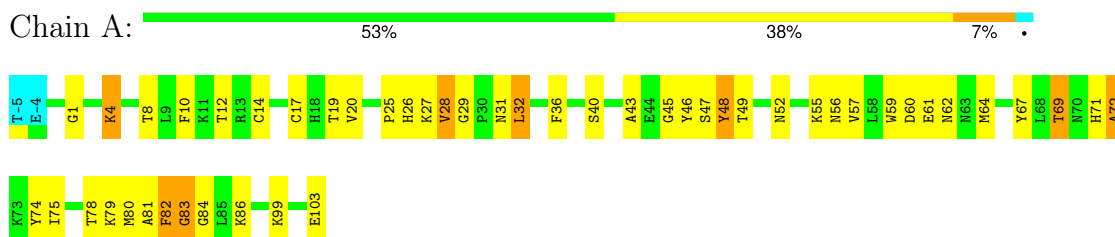
4.2.11 Score per residue for model 11

- Molecule 1: Cytochrome c iso-1



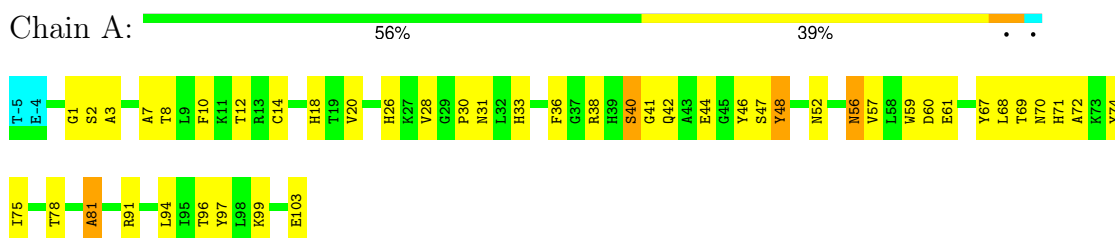
4.2.12 Score per residue for model 12

- Molecule 1: Cytochrome c iso-1



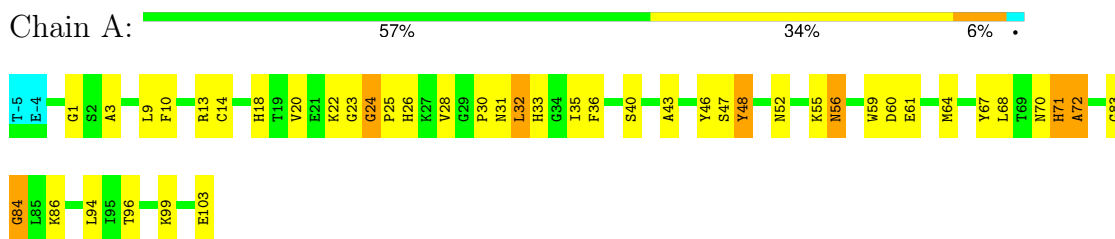
4.2.13 Score per residue for model 13

- Molecule 1: Cytochrome c iso-1



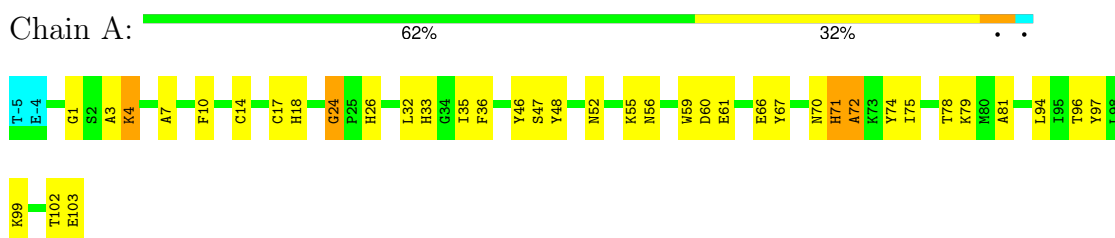
4.2.14 Score per residue for model 14

- Molecule 1: Cytochrome c iso-1



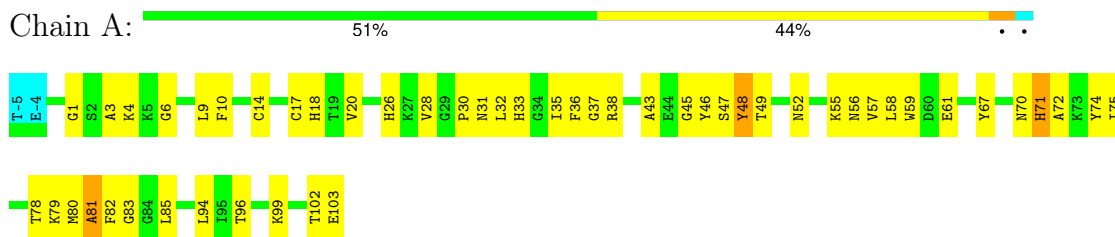
4.2.15 Score per residue for model 15

- Molecule 1: Cytochrome c iso-1



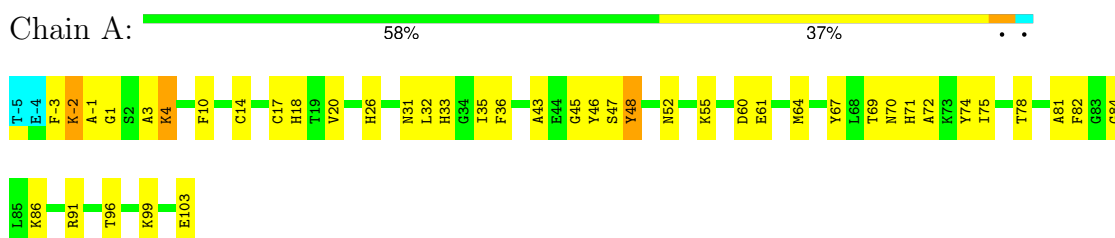
4.2.16 Score per residue for model 16 (medoid)

- Molecule 1: Cytochrome c iso-1



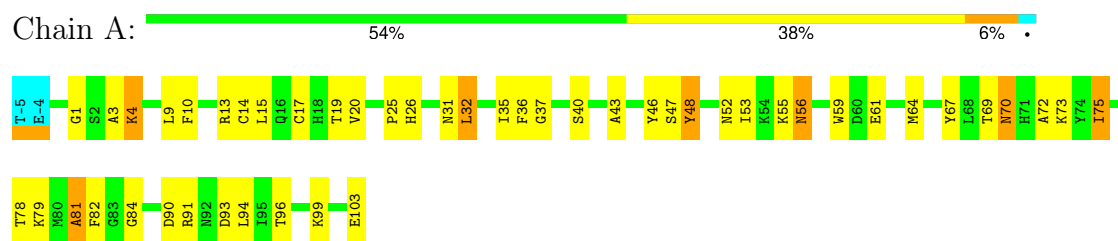
4.2.17 Score per residue for model 17

- Molecule 1: Cytochrome c iso-1



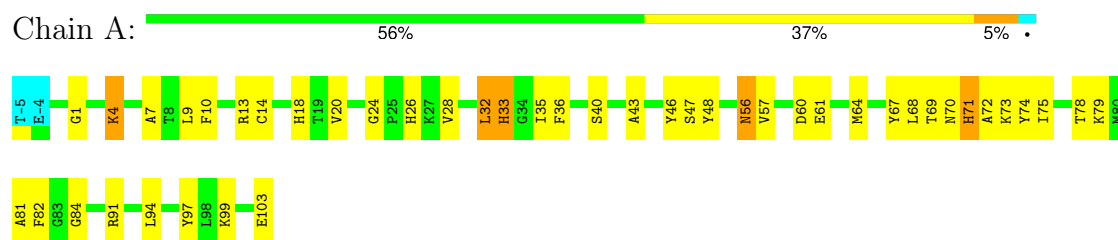
4.2.18 Score per residue for model 18

- Molecule 1: Cytochrome c iso-1



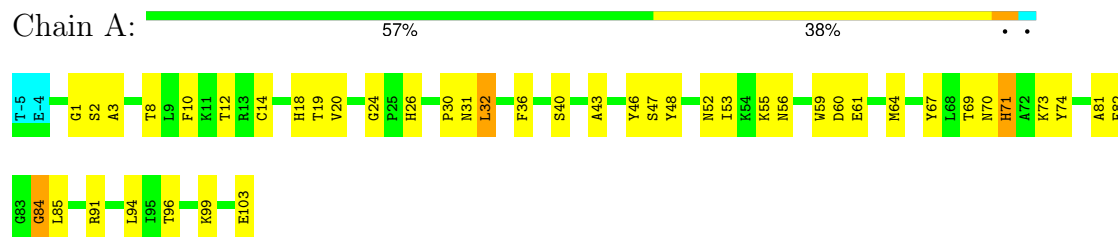
4.2.19 Score per residue for model 19

- Molecule 1: Cytochrome c iso-1



4.2.20 Score per residue for model 20

- Molecule 1: Cytochrome c iso-1



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
X-PLOR NIH	structure solution	
X-PLOR NIH	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	616
Number of shifts mapped to atoms	616
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	43%

6 Model quality i

6.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: HEC

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts i

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	830	831	828	47±7
2	A	43	32	30	9±3
All	All	17460	17260	17160	974

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 28.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:72:ALA:HB1	1:A:78:THR:HG21	0.93	1.37	12	1
1:A:69:THR:HG23	1:A:91:ARG:NH2	0.91	1.80	17	2
1:A:32:LEU:HD11	1:A:35:ILE:HD13	0.85	1.47	19	4
1:A:57:VAL:HG11	1:A:74:TYR:OH	0.83	1.73	16	6
1:A:32:LEU:HD22	1:A:48:TYR:OH	0.83	1.74	5	4
1:A:32:LEU:HD23	1:A:32:LEU:N	0.81	1.90	12	4
1:A:69:THR:HG22	1:A:91:ARG:NH2	0.78	1.92	5	1
1:A:8:THR:O	1:A:12:THR:HG23	0.77	1.80	4	3
1:A:32:LEU:H	1:A:32:LEU:HD22	0.73	1.41	14	1
1:A:4:LYS:H	1:A:4:LYS:HZ3	0.72	1.27	7	1
1:A:4:LYS:HZ3	1:A:4:LYS:N	0.71	1.83	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:43:ALA:HB3	1:A:46:TYR:O	0.71	1.86	10	11
1:A:43:ALA:HB2	1:A:48:TYR:CE1	0.70	2.20	4	10
2:A:104:HEC:HMB1	2:A:104:HEC:HBB3	0.70	1.61	4	20
1:A:81:ALA:HB1	2:A:104:HEC:HBC2	0.70	1.63	7	4
1:A:3:ALA:HB2	1:A:96:THR:HG22	0.69	1.62	20	17
1:A:59:TRP:CE3	1:A:64:MET:SD	0.69	2.85	10	2
1:A:38:ARG:NE	1:A:42:GLN:NE2	0.69	2.41	7	1
1:A:56:ASN:ND2	1:A:56:ASN:N	0.69	2.41	9	1
1:A:46:TYR:CD1	1:A:47:SER:N	0.68	2.62	3	11
1:A:71:HIS:O	1:A:72:ALA:HB3	0.68	1.89	6	3
1:A:71:HIS:O	1:A:72:ALA:HB2	0.68	1.89	12	1
1:A:32:LEU:N	1:A:32:LEU:HD22	0.67	2.03	1	2
1:A:36:PHE:CD1	1:A:64:MET:SD	0.67	2.87	11	6
1:A:36:PHE:CE2	1:A:64:MET:SD	0.67	2.87	17	9
1:A:82:PHE:CE2	2:A:104:HEC:HBB2	0.67	2.24	10	1
2:A:104:HEC:HBD1	2:A:104:HEC:HMD1	0.67	1.65	6	1
1:A:36:PHE:CZ	1:A:64:MET:SD	0.66	2.89	17	8
1:A:26:HIS:CE1	1:A:31:ASN:H	0.66	2.09	1	12
1:A:71:HIS:O	1:A:71:HIS:ND1	0.66	2.28	12	1
1:A:82:PHE:CG	1:A:83:GLY:N	0.65	2.61	10	2
1:A:36:PHE:CE1	1:A:64:MET:SD	0.65	2.90	9	10
1:A:80:MET:O	1:A:81:ALA:HB2	0.65	1.92	16	3
1:A:32:LEU:HD12	1:A:35:ILE:HD13	0.65	1.69	14	1
1:A:93:ASP:OD1	1:A:94:LEU:N	0.64	2.30	18	1
1:A:71:HIS:O	1:A:71:HIS:CG	0.64	2.51	12	1
1:A:57:VAL:HG11	1:A:74:TYR:CE1	0.64	2.27	4	1
1:A:20:VAL:O	1:A:33:HIS:CG	0.64	2.51	11	9
1:A:82:PHE:CD1	1:A:83:GLY:N	0.64	2.66	5	2
1:A:10:PHE:CE1	1:A:20:VAL:HG13	0.63	2.28	14	7
1:A:82:PHE:CD2	1:A:83:GLY:N	0.63	2.66	9	4
1:A:31:ASN:C	1:A:32:LEU:HD23	0.63	2.14	5	2
1:A:52:ASN:ND2	2:A:104:HEC:CGD	0.63	2.61	15	4
1:A:74:TYR:CZ	1:A:75:ILE:HD11	0.63	2.28	7	1
1:A:46:TYR:CE1	1:A:47:SER:O	0.62	2.52	14	18
1:A:20:VAL:O	1:A:20:VAL:HG12	0.62	1.92	3	2
1:A:4:LYS:H	1:A:4:LYS:NZ	0.62	1.92	7	1
1:A:32:LEU:N	1:A:32:LEU:CD2	0.62	2.63	8	6
1:A:46:TYR:CZ	1:A:47:SER:O	0.62	2.52	10	20
1:A:67:TYR:O	1:A:71:HIS:N	0.62	2.33	12	1
1:A:81:ALA:CB	2:A:104:HEC:HBC2	0.62	2.25	13	1
1:A:7:ALA:HB2	1:A:97:TYR:CD1	0.62	2.30	9	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:PHE:CZ	1:A:20:VAL:HG13	0.62	2.30	6	3
1:A:9:LEU:HD11	1:A:13:ARG:HE	0.61	1.55	1	3
1:A:26:HIS:NE2	1:A:46:TYR:N	0.61	2.47	20	5
1:A:48:TYR:CE2	2:A:104:HEC:O1A	0.61	2.53	20	16
1:A:48:TYR:CZ	2:A:104:HEC:O1A	0.61	2.54	14	7
1:A:85:LEU:HD21	1:A:94:LEU:HD12	0.61	1.71	8	3
2:A:104:HEC:HMD1	2:A:104:HEC:CBD	0.61	2.26	14	9
1:A:18:HIS:CE1	1:A:32:LEU:HD21	0.61	2.31	14	2
1:A:94:LEU:HD21	2:A:104:HEC:CMB	0.61	2.25	9	9
1:A:32:LEU:HD13	1:A:35:ILE:HD13	0.61	1.71	2	2
1:A:19:THR:H	1:A:31:ASN:ND2	0.61	1.94	6	3
1:A:67:TYR:CZ	1:A:71:HIS:O	0.61	2.54	9	7
1:A:70:ASN:HD22	1:A:73:LYS:N	0.60	1.94	20	3
1:A:8:THR:O	1:A:12:THR:HG22	0.60	1.96	13	2
1:A:20:VAL:O	1:A:33:HIS:CD2	0.60	2.54	10	3
1:A:32:LEU:HD11	1:A:48:TYR:OH	0.60	1.96	7	2
1:A:32:LEU:HD22	1:A:32:LEU:H	0.60	1.55	1	1
1:A:52:ASN:HD22	2:A:104:HEC:CGD	0.60	2.09	13	4
1:A:71:HIS:O	1:A:78:THR:HG21	0.60	1.97	11	2
1:A:67:TYR:CE2	2:A:104:HEC:C2A	0.60	2.85	15	9
1:A:67:TYR:CE1	1:A:71:HIS:O	0.60	2.55	1	4
1:A:26:HIS:NE2	1:A:44:GLU:O	0.60	2.35	13	1
1:A:52:ASN:ND2	2:A:104:HEC:O2D	0.59	2.35	2	4
1:A:56:ASN:N	1:A:56:ASN:OD1	0.59	2.36	13	5
1:A:33:HIS:O	1:A:33:HIS:CG	0.59	2.56	3	1
1:A:74:TYR:CE2	1:A:75:ILE:CG1	0.59	2.86	7	1
1:A:59:TRP:CE2	2:A:104:HEC:O2A	0.59	2.56	20	1
1:A:26:HIS:HD1	1:A:31:ASN:N	0.59	1.95	7	5
1:A:67:TYR:CE1	2:A:104:HEC:C2A	0.59	2.85	17	5
1:A:50:ASP:OD1	1:A:51:ALA:N	0.59	2.36	2	1
1:A:26:HIS:HE2	1:A:45:GLY:CA	0.59	2.11	17	2
1:A:24:GLY:O	1:A:26:HIS:CD2	0.59	2.56	20	7
1:A:33:HIS:CG	1:A:33:HIS:O	0.59	2.54	4	1
1:A:38:ARG:HE	1:A:39:HIS:H	0.59	1.39	7	1
1:A:69:THR:OG1	1:A:91:ARG:NE	0.59	2.36	18	1
1:A:26:HIS:ND1	1:A:31:ASN:OD1	0.58	2.36	14	2
1:A:66:GLU:OE1	1:A:74:TYR:CE1	0.58	2.56	15	2
1:A:61:GLU:OE2	1:A:99:LYS:NZ	0.58	2.36	10	6
1:A:40:SER:OG	1:A:59:TRP:CZ2	0.58	2.56	12	2
1:A:69:THR:OG1	1:A:91:ARG:NH1	0.58	2.36	20	4
1:A:40:SER:OG	1:A:59:TRP:CE2	0.58	2.56	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:33:HIS:O	1:A:33:HIS:ND1	0.58	2.37	3	1
1:A:71:HIS:CE1	1:A:81:ALA:O	0.58	2.57	12	1
1:A:32:LEU:HD22	1:A:32:LEU:N	0.58	2.14	14	1
1:A:68:LEU:HD12	1:A:85:LEU:HD23	0.58	1.74	1	1
1:A:72:ALA:HB2	1:A:78:THR:HG22	0.58	1.74	2	1
1:A:53:ILE:O	1:A:56:ASN:ND2	0.58	2.36	9	1
1:A:48:TYR:O	1:A:53:ILE:HD11	0.58	1.99	6	7
1:A:61:GLU:OE1	1:A:99:LYS:NZ	0.58	2.36	4	3
1:A:25:PRO:O	1:A:31:ASN:ND2	0.58	2.37	14	3
1:A:88:GLU:OE1	1:A:91:ARG:NH2	0.57	2.36	1	1
1:A:48:TYR:CE2	2:A:104:HEC:CGA	0.57	2.87	7	1
1:A:10:PHE:CD2	1:A:14:CYS:SG	0.57	2.98	6	5
1:A:76:PRO:O	1:A:77:GLY:C	0.57	2.43	2	1
1:A:40:SER:OG	1:A:59:TRP:NE1	0.57	2.36	7	2
1:A:94:LEU:HD21	2:A:104:HEC:HMB1	0.57	1.77	19	3
1:A:43:ALA:CB	1:A:46:TYR:O	0.57	2.53	14	3
1:A:70:ASN:HD22	1:A:73:LYS:H	0.57	1.40	8	3
1:A:4:LYS:CD	1:A:4:LYS:H	0.57	2.13	17	6
1:A:46:TYR:CE2	1:A:47:SER:O	0.57	2.58	2	3
1:A:72:ALA:HB2	1:A:78:THR:OG1	0.57	2.00	13	2
1:A:3:ALA:HB2	1:A:96:THR:CG2	0.57	2.30	11	14
1:A:70:ASN:O	1:A:72:ALA:N	0.56	2.38	1	8
1:A:38:ARG:O	1:A:59:TRP:N	0.56	2.37	16	4
1:A:68:LEU:HD12	1:A:85:LEU:CD2	0.56	2.30	1	1
1:A:79:LYS:O	1:A:80:MET:SD	0.56	2.64	12	1
1:A:18:HIS:ND1	1:A:30:PRO:O	0.56	2.38	20	5
1:A:32:LEU:O	1:A:33:HIS:CB	0.56	2.53	19	2
1:A:20:VAL:O	1:A:33:HIS:ND1	0.56	2.38	2	1
1:A:17:CYS:SG	2:A:104:HEC:HMC1	0.56	2.41	6	9
1:A:82:PHE:CD2	1:A:84:GLY:N	0.55	2.75	3	8
1:A:28:VAL:HG13	1:A:29:GLY:N	0.55	2.17	6	2
1:A:9:LEU:HD11	1:A:13:ARG:NE	0.55	2.17	19	3
1:A:71:HIS:O	1:A:72:ALA:CB	0.55	2.55	6	2
1:A:38:ARG:NE	1:A:42:GLN:HE22	0.55	1.99	7	1
1:A:61:GLU:OE2	1:A:99:LYS:CE	0.54	2.55	12	10
1:A:81:ALA:CB	2:A:104:HEC:CHD	0.54	2.86	6	1
1:A:57:VAL:HG11	1:A:74:TYR:HH	0.54	1.62	16	1
1:A:75:ILE:CG2	1:A:78:THR:OG1	0.54	2.55	10	3
1:A:67:TYR:CE2	2:A:104:HEC:CAA	0.54	2.90	9	1
1:A:26:HIS:NE2	1:A:45:GLY:C	0.54	2.61	8	9
1:A:36:PHE:CD2	1:A:64:MET:SD	0.54	3.01	19	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:38:ARG:NE	1:A:39:HIS:H	0.54	2.01	7	1
1:A:78:THR:CG2	1:A:79:LYS:N	0.54	2.71	16	3
1:A:67:TYR:CZ	2:A:104:HEC:CAA	0.53	2.90	20	3
1:A:28:VAL:CG1	1:A:29:GLY:N	0.53	2.71	12	2
1:A:29:GLY:O	1:A:31:ASN:N	0.53	2.41	10	1
1:A:59:TRP:NE1	2:A:104:HEC:O2A	0.53	2.41	20	2
1:A:59:TRP:CZ2	2:A:104:HEC:O2A	0.53	2.62	20	1
1:A:71:HIS:ND1	1:A:81:ALA:C	0.53	2.61	12	1
1:A:26:HIS:ND1	1:A:31:ASN:N	0.53	2.56	1	5
1:A:51:ALA:CB	1:A:77:GLY:O	0.53	2.56	6	1
1:A:20:VAL:O	1:A:20:VAL:CG1	0.53	2.57	3	1
1:A:70:ASN:ND2	1:A:73:LYS:CB	0.53	2.72	18	1
1:A:67:TYR:O	1:A:70:ASN:O	0.53	2.27	20	17
1:A:80:MET:O	1:A:81:ALA:CB	0.52	2.58	16	2
1:A:48:TYR:CD2	1:A:52:ASN:ND2	0.52	2.78	20	4
1:A:4:LYS:H	1:A:4:LYS:CE	0.52	2.17	7	2
1:A:70:ASN:C	1:A:72:ALA:H	0.52	2.07	14	8
2:A:104:HEC:HMD1	2:A:104:HEC:HBD2	0.52	1.82	14	6
1:A:76:PRO:O	1:A:78:THR:N	0.52	2.43	2	1
1:A:36:PHE:O	1:A:59:TRP:O	0.52	2.28	13	10
1:A:81:ALA:HB3	2:A:104:HEC:HBC2	0.52	1.80	18	2
1:A:19:THR:O	1:A:21:GLU:N	0.52	2.42	3	1
1:A:85:LEU:HD21	1:A:94:LEU:CD1	0.52	2.35	20	3
1:A:14:CYS:O	1:A:18:HIS:N	0.52	2.43	16	15
1:A:67:TYR:CE1	2:A:104:HEC:C3A	0.52	2.93	20	4
1:A:17:CYS:SG	2:A:104:HEC:CMC	0.51	2.98	18	9
1:A:55:LYS:NZ	1:A:74:TYR:O	0.51	2.43	8	2
1:A:71:HIS:HD1	1:A:81:ALA:C	0.51	2.07	12	1
1:A:18:HIS:ND1	1:A:32:LEU:CD2	0.51	2.73	1	2
1:A:10:PHE:CE1	1:A:20:VAL:CG1	0.51	2.94	14	2
1:A:70:ASN:C	1:A:72:ALA:N	0.51	2.64	1	9
1:A:68:LEU:HD13	1:A:94:LEU:HD23	0.51	1.83	14	3
1:A:4:LYS:CD	1:A:4:LYS:N	0.51	2.74	18	5
1:A:67:TYR:OH	1:A:71:HIS:O	0.51	2.29	2	6
1:A:71:HIS:CD2	1:A:81:ALA:HB3	0.51	2.41	6	1
1:A:20:VAL:O	1:A:33:HIS:CB	0.51	2.59	11	1
1:A:32:LEU:HD12	1:A:48:TYR:OH	0.51	2.06	9	2
1:A:35:ILE:C	1:A:37:GLY:H	0.50	2.10	9	2
1:A:90:ASP:O	1:A:93:ASP:OD1	0.50	2.29	18	1
1:A:65:SER:O	1:A:91:ARG:NH1	0.50	2.43	1	1
1:A:24:GLY:O	1:A:31:ASN:OD1	0.50	2.30	2	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:35:ILE:N	1:A:35:ILE:HD13	0.50	2.20	8	1
1:A:31:ASN:O	1:A:32:LEU:O	0.50	2.29	14	1
1:A:32:LEU:HG	1:A:35:ILE:HD13	0.50	1.83	15	1
1:A:78:THR:HG22	1:A:79:LYS:N	0.50	2.20	16	3
1:A:48:TYR:CD2	2:A:104:HEC:O2D	0.50	2.63	16	2
1:A:52:ASN:O	1:A:55:LYS:O	0.50	2.30	11	14
1:A:25:PRO:O	1:A:31:ASN:OD1	0.50	2.30	6	5
1:A:56:ASN:O	1:A:56:ASN:OD1	0.50	2.30	7	8
1:A:23:GLY:O	1:A:24:GLY:O	0.50	2.30	14	2
1:A:60:ASP:OD1	1:A:61:GLU:OE1	0.50	2.30	8	7
1:A:94:LEU:HD21	2:A:104:HEC:HBB3	0.50	1.84	4	1
1:A:69:THR:HG22	1:A:91:ARG:CZ	0.50	2.36	5	1
1:A:30:PRO:O	1:A:31:ASN:O	0.50	2.29	6	1
1:A:10:PHE:C	1:A:10:PHE:CD1	0.50	2.84	1	9
1:A:29:GLY:C	1:A:31:ASN:H	0.49	2.10	10	1
1:A:48:TYR:OH	2:A:104:HEC:O1A	0.49	2.29	16	4
1:A:12:THR:HG22	1:A:12:THR:O	0.49	2.08	7	1
1:A:53:ILE:O	1:A:56:ASN:OD1	0.49	2.30	18	2
1:A:30:PRO:CG	2:A:104:HEC:O2D	0.49	2.61	8	2
1:A:48:TYR:O	1:A:53:ILE:CD1	0.49	2.61	7	4
1:A:69:THR:O	1:A:70:ASN:OD1	0.49	2.31	4	2
1:A:23:GLY:O	1:A:31:ASN:OD1	0.49	2.31	11	1
1:A:79:LYS:NZ	2:A:104:HEC:CMD	0.49	2.76	15	1
1:A:20:VAL:CG1	1:A:20:VAL:O	0.49	2.60	18	1
1:A:78:THR:HG1	2:A:104:HEC:CGD	0.49	2.18	2	1
1:A:19:THR:C	1:A:21:GLU:N	0.49	2.65	3	1
1:A:20:VAL:O	1:A:21:GLU:O	0.49	2.31	4	1
1:A:26:HIS:O	1:A:27:LYS:O	0.48	2.31	11	1
1:A:60:ASP:OD1	1:A:61:GLU:N	0.48	2.46	7	10
1:A:41:GLY:N	1:A:48:TYR:CD2	0.48	2.81	7	2
1:A:40:SER:OG	2:A:104:HEC:O2A	0.48	2.32	13	4
1:A:35:ILE:C	1:A:37:GLY:N	0.48	2.67	8	3
1:A:70:ASN:ND2	1:A:72:ALA:O	0.48	2.46	2	1
1:A:38:ARG:NH2	1:A:39:HIS:ND1	0.48	2.61	7	1
1:A:9:LEU:CD1	1:A:13:ARG:HE	0.48	2.21	19	3
1:A:99:LYS:O	1:A:103:GLU:N	0.48	2.44	5	20
1:A:67:TYR:CE2	2:A:104:HEC:C3A	0.48	2.97	7	5
1:A:9:LEU:O	1:A:12:THR:OG1	0.48	2.31	4	1
1:A:78:THR:HG23	2:A:104:HEC:O2D	0.48	2.08	15	1
1:A:40:SER:OG	1:A:75:ILE:CD1	0.48	2.62	1	1
1:A:-3:PHE:O	1:A:-2:LYS:O	0.48	2.32	11	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:72:ALA:HB1	1:A:79:LYS:O	0.48	2.09	18	1
1:A:10:PHE:CZ	1:A:20:VAL:HG23	0.48	2.44	18	1
1:A:26:HIS:O	1:A:27:LYS:C	0.47	2.51	11	2
1:A:35:ILE:N	1:A:35:ILE:CD1	0.47	2.77	8	1
1:A:35:ILE:O	1:A:37:GLY:N	0.47	2.47	8	3
1:A:22:LYS:O	1:A:24:GLY:N	0.47	2.46	14	1
1:A:9:LEU:HD11	1:A:13:ARG:CZ	0.47	2.40	18	3
1:A:59:TRP:CD2	1:A:64:MET:SD	0.47	3.07	10	2
1:A:52:ASN:ND2	2:A:104:HEC:O1D	0.47	2.47	2	3
1:A:32:LEU:H	1:A:32:LEU:CD2	0.47	2.17	14	1
1:A:16:GLN:O	1:A:28:VAL:HG21	0.47	2.10	2	1
1:A:35:ILE:CG2	1:A:59:TRP:CD1	0.47	2.98	5	2
1:A:72:ALA:CB	1:A:78:THR:OG1	0.47	2.62	13	2
1:A:19:THR:C	1:A:21:GLU:H	0.47	2.13	3	1
1:A:36:PHE:HB2	1:A:102:THR:HG21	0.47	1.86	6	3
1:A:32:LEU:CD1	1:A:35:ILE:HD13	0.47	2.33	11	2
1:A:67:TYR:CE2	1:A:71:HIS:O	0.47	2.68	11	2
1:A:71:HIS:HD1	1:A:81:ALA:CA	0.47	2.22	12	1
1:A:18:HIS:ND1	1:A:32:LEU:HD23	0.47	2.25	8	1
1:A:78:THR:HG23	2:A:104:HEC:CGD	0.47	2.40	15	1
1:A:78:THR:OG1	2:A:104:HEC:CBD	0.47	2.63	18	1
1:A:92:ASN:O	1:A:96:THR:OG1	0.47	2.31	1	1
1:A:82:PHE:CE1	1:A:85:LEU:HD13	0.46	2.45	5	1
1:A:18:HIS:CE1	1:A:32:LEU:CD2	0.46	2.98	14	2
1:A:52:ASN:CB	2:A:104:HEC:O1D	0.46	2.64	12	1
1:A:25:PRO:C	1:A:31:ASN:OD1	0.46	2.54	6	6
1:A:26:HIS:CD2	1:A:46:TYR:CB	0.46	2.99	2	1
1:A:35:ILE:CD1	1:A:35:ILE:H	0.46	2.24	8	1
1:A:26:HIS:NE2	1:A:45:GLY:CA	0.46	2.78	8	2
1:A:7:ALA:CB	1:A:97:TYR:CD1	0.46	2.99	9	3
1:A:20:VAL:HG23	1:A:21:GLU:N	0.46	2.25	4	1
1:A:48:TYR:CD1	2:A:104:HEC:O2D	0.46	2.69	7	1
1:A:24:GLY:C	1:A:31:ASN:OD1	0.45	2.54	11	3
1:A:69:THR:HG23	1:A:91:ARG:HH22	0.45	1.69	10	1
1:A:99:LYS:O	1:A:103:GLU:CB	0.45	2.64	10	1
1:A:35:ILE:HD11	1:A:64:MET:CE	0.45	2.42	9	2
1:A:61:GLU:CD	1:A:99:LYS:NZ	0.45	2.70	12	3
1:A:68:LEU:HD11	2:A:104:HEC:HMB2	0.45	1.89	1	1
1:A:6:GLY:HA2	1:A:9:LEU:HD12	0.45	1.87	16	1
1:A:28:VAL:HG12	1:A:29:GLY:N	0.45	2.27	4	1
1:A:70:ASN:HD22	1:A:72:ALA:H	0.45	1.55	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:47:SER:O	1:A:48:TYR:O	0.45	2.35	13	1
1:A:38:ARG:CD	1:A:42:GLN:OE1	0.45	2.65	13	3
1:A:15:LEU:HD12	1:A:19:THR:HG22	0.45	1.89	18	2
1:A:69:THR:OG1	1:A:91:ARG:NH2	0.45	2.50	13	1
1:A:49:THR:N	2:A:104:HEC:O1D	0.45	2.50	16	1
1:A:32:LEU:HD22	1:A:48:TYR:CZ	0.44	2.45	5	1
1:A:9:LEU:HD23	1:A:94:LEU:HG	0.44	1.89	6	3
1:A:38:ARG:CD	1:A:42:GLN:NE2	0.44	2.80	7	1
1:A:20:VAL:HG13	1:A:33:HIS:CD2	0.44	2.47	19	1
1:A:10:PHE:CD1	1:A:10:PHE:C	0.44	2.91	15	3
1:A:26:HIS:CE1	1:A:30:PRO:O	0.44	2.70	13	2
1:A:82:PHE:CZ	1:A:85:LEU:HD13	0.44	2.48	9	1
1:A:24:GLY:CA	1:A:31:ASN:OD1	0.44	2.65	8	1
1:A:52:ASN:CG	2:A:104:HEC:O2D	0.44	2.56	15	1
1:A:67:TYR:O	1:A:70:ASN:C	0.44	2.56	18	1
1:A:49:THR:OG1	1:A:79:LYS:CE	0.44	2.66	3	3
1:A:75:ILE:O	1:A:78:THR:HG22	0.44	2.13	18	1
1:A:10:PHE:CE1	1:A:20:VAL:HG23	0.44	2.48	8	1
1:A:70:ASN:CG	1:A:71:HIS:H	0.43	2.17	3	2
1:A:84:GLY:O	1:A:86:LYS:N	0.43	2.50	14	3
1:A:35:ILE:CG1	1:A:36:PHE:N	0.43	2.81	9	1
1:A:74:TYR:CE2	1:A:75:ILE:HD11	0.43	2.49	7	1
1:A:68:LEU:CD1	1:A:94:LEU:HD23	0.43	2.43	19	1
1:A:4:LYS:CG	1:A:5:LYS:N	0.43	2.81	9	1
1:A:44:GLU:O	1:A:46:TYR:N	0.43	2.51	13	1
1:A:78:THR:HG23	1:A:79:LYS:N	0.43	2.28	2	1
1:A:75:ILE:HG22	1:A:78:THR:OG1	0.43	2.14	10	1
1:A:70:ASN:ND2	1:A:72:ALA:H	0.43	2.12	19	1
1:A:70:ASN:HD22	1:A:72:ALA:C	0.43	2.17	2	1
1:A:3:ALA:O	1:A:4:LYS:C	0.42	2.55	1	1
1:A:48:TYR:N	1:A:48:TYR:CD1	0.42	2.86	13	2
1:A:52:ASN:OD1	1:A:52:ASN:C	0.42	2.56	20	1
1:A:26:HIS:CD2	1:A:46:TYR:N	0.42	2.86	1	1
1:A:30:PRO:O	1:A:31:ASN:C	0.42	2.56	6	1
1:A:78:THR:HG1	2:A:104:HEC: CBD	0.42	2.27	18	1
1:A:10:PHE:CE1	1:A:20:VAL:HG22	0.42	2.49	6	1
1:A:65:SER:HA	1:A:95:ILE:HD11	0.42	1.92	10	1
1:A:68:LEU:CD2	1:A:94:LEU:HD23	0.42	2.44	13	1
1:A:67:TYR:O	1:A:68:LEU:C	0.42	2.57	19	1
1:A:46:TYR:CG	1:A:47:SER:N	0.42	2.87	10	1
1:A:26:HIS:HD1	1:A:31:ASN:H	0.42	1.51	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:57:VAL:O	1:A:58:LEU:C	0.42	2.56	10	1
1:A:88:GLU:O	1:A:92:ASN:CG	0.42	2.58	9	1
1:A:82:PHE:CZ	1:A:85:LEU:HD21	0.42	2.50	10	1
1:A:82:PHE:CD1	1:A:82:PHE:C	0.42	2.93	4	1
1:A:69:THR:HG23	1:A:91:ARG:CZ	0.42	2.41	17	1
1:A:32:LEU:HD11	2:A:104:HEC:HBA1	0.41	1.91	8	1
1:A:94:LEU:HD11	2:A:104:HEC:HBB3	0.41	1.92	6	1
1:A:37:GLY:O	1:A:58:LEU:HD11	0.41	2.15	16	1
1:A:102:THR:O	1:A:103:GLU:O	0.41	2.39	15	1
1:A:61:GLU:H	1:A:61:GLU:CD	0.41	2.19	3	3
1:A:91:ARG:CB	1:A:91:ARG:NH1	0.41	2.83	18	1
1:A:35:ILE:O	1:A:36:PHE:C	0.41	2.59	18	1
1:A:18:HIS:ND1	1:A:32:LEU:HD21	0.41	2.31	1	1
1:A:32:LEU:CD2	1:A:48:TYR:OH	0.41	2.69	16	1
1:A:26:HIS:NE2	1:A:45:GLY:O	0.41	2.54	8	1
1:A:32:LEU:CD1	1:A:48:TYR:OH	0.41	2.68	14	1
1:A:70:ASN:ND2	1:A:71:HIS:H	0.41	2.14	8	1
1:A:19:THR:CG2	1:A:27:LYS:NZ	0.41	2.83	12	1
1:A:32:LEU:HD11	1:A:35:ILE:CD1	0.40	2.46	3	1
1:A:64:MET:O	1:A:68:LEU:HD13	0.40	2.16	4	1
1:A:85:LEU:HD11	1:A:90:ASP:HB3	0.40	1.93	8	1
1:A:72:ALA:CB	1:A:78:THR:HG21	0.40	2.28	12	1
1:A:79:LYS:HZ2	2:A:104:HEC:CMD	0.40	2.29	15	1
1:A:102:THR:O	1:A:103:GLU:C	0.40	2.59	1	1
1:A:71:HIS:CE1	1:A:82:PHE:CB	0.40	3.03	7	1
1:A:18:HIS:ND1	1:A:32:LEU:HD22	0.40	2.31	20	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	105/108 (97%)	91±3 (87±3%)	9±3 (9±2%)	5±2 (5±2%)	3	26
All	All	2100/2160 (97%)	1818 (87%)	184 (9%)	98 (5%)	3	26

All 23 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	1	GLY	15
1	A	81	ALA	15
1	A	72	ALA	9
1	A	71	HIS	7
1	A	33	HIS	7
1	A	48	TYR	7
1	A	32	LEU	6
1	A	27	LYS	4
1	A	84	GLY	3
1	A	28	VAL	3
1	A	83	GLY	3
1	A	82	PHE	3
1	A	24	GLY	3
1	A	20	VAL	2
1	A	31	ASN	2
1	A	-2	LYS	2
1	A	77	GLY	1
1	A	21	GLU	1
1	A	34	GLY	1
1	A	35	ILE	1
1	A	30	PRO	1
1	A	69	THR	1
1	A	-1	ALA	1

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	86/88 (98%)	82±1 (95±2%)	4±1 (5±2%)	22	75
All	All	1720/1760 (98%)	1632 (95%)	88 (5%)	22	75

All 18 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	71	HIS	16

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Mol	Chain	Res	Type	Models (Total)
1	A	40	SER	12
1	A	2	SER	10
1	A	56	ASN	9
1	A	75	ILE	9
1	A	4	LYS	8
1	A	28	VAL	5
1	A	32	LEU	5
1	A	74	TYR	3
1	A	33	HIS	2
1	A	35	ILE	2
1	A	78	THR	1
1	A	14	CYS	1
1	A	85	LEU	1
1	A	36	PHE	1
1	A	69	THR	1
1	A	70	ASN	1
1	A	19	THR	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

1 ligand is modelled in this entry.

In the following table, the Counts columns list the number of bonds for which Mogul statistics could be retrieved, the number of bonds that are observed in the model and the number of bonds that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length is the number of standard deviations the observed value is removed from the expected value. A bond length with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
2	HEC	A	104	1	32,50,50	1.67±0.02	4±0 (12±0%)

In the following table, the Counts columns list the number of angles for which Mogul statistics could be retrieved, the number of angles that are observed in the model and the number of angles that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond angle is the number of standard deviations the observed value is removed from the expected value. A bond angle with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond angles.

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
2	HEC	A	104	1	30,82,82	1.87±0.03	2±1 (8±1%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	HEC	A	104	1	-	0±0,10,54,54	-

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	A	104	HEC	C3C-C2C	5.14	1.35	1.40	16	20
2	A	104	HEC	C2B-C3B	4.95	1.35	1.40	15	20
2	A	104	HEC	O2D-CGD	2.62	1.22	1.30	7	20
2	A	104	HEC	O2A-CGA	2.58	1.22	1.30	3	20

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	A	104	HEC	CBB-CAB-C3B	6.50	112.29	127.49	16	20
2	A	104	HEC	CBC-CAC-C3C	6.17	113.06	127.49	12	20
2	A	104	HEC	CMD-C2D-C1D	2.24	125.18	128.46	14	7
2	A	104	HEC	CBD-CAD-C3D	2.03	115.96	112.54	14	1

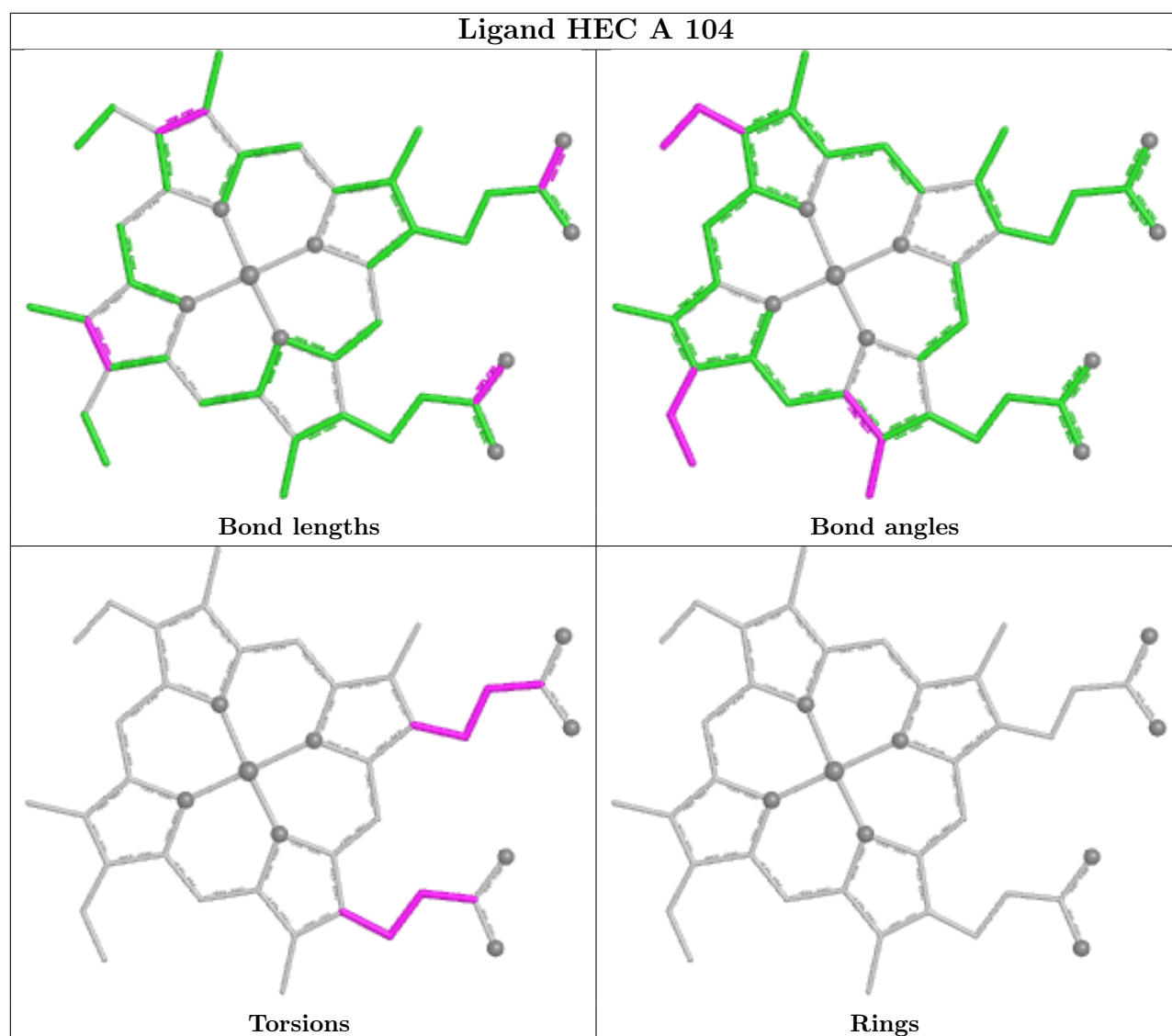
There are no chirality outliers.

All unique torsion outliers are listed below.

Mol	Chain	Res	Type	Atoms	Models (Total)
2	A	104	HEC	C2D-C3D-CAD-CBD	1

There are no ring outliers.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation [i](#)

The completeness of assignment taking into account all chemical shift lists is 43% for the well-defined parts and 43% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping [i](#)

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

Total number of shifts	616
Number of shifts mapped to atoms	616
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	36

7.1.2 Chemical shift referencing [i](#)

No chemical shift referencing corrections were calculated (not enough data).

7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 43%, i.e. 616 atoms were assigned a chemical shift out of a possible 1423. 0 out of 11 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	208/536 (39%)	208/221 (94%)	0/212 (0%)	0/103 (0%)
Sidechain	370/752 (49%)	370/484 (76%)	0/235 (0%)	0/33 (0%)
Aromatic	38/135 (28%)	38/66 (58%)	0/60 (0%)	0/9 (0%)
Overall	616/1423 (43%)	616/771 (80%)	0/507 (0%)	0/145 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 43%, i.e. 616 atoms were assigned a chemical shift out of a possible 1446. 0 out of 11 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	208/546 (38%)	208/225 (92%)	0/216 (0%)	0/105 (0%)
Sidechain	370/765 (48%)	370/492 (75%)	0/240 (0%)	0/33 (0%)
Aromatic	38/135 (28%)	38/66 (58%)	0/60 (0%)	0/9 (0%)
Overall	616/1446 (43%)	616/783 (79%)	0/516 (0%)	0/147 (0%)

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	71	HIS	HD2	30.24	4.65 – 9.35	49.5
1	A	18	HIS	HE1	-11.98	5.13 – 10.76	-35.4
1	A	18	HIS	HB3	13.91	1.18 – 4.91	29.1
1	A	18	HIS	HD2	19.30	4.65 – 9.35	26.2
1	A	29	GLY	HA2	-2.78	2.15 – 5.77	-18.6
1	A	30	PRO	HD3	-3.08	1.76 – 5.48	-18.0
1	A	18	HIS	HB2	9.17	1.36 – 4.85	17.4
1	A	71	HIS	HB2	8.68	1.36 – 4.85	16.0
1	A	46	TYR	HE1	3.49	5.59 – 7.82	-14.4
1	A	71	HIS	HA	10.27	2.49 – 6.71	13.4
1	A	30	PRO	HD2	-0.76	1.93 – 5.38	-12.8
1	A	71	HIS	HB3	7.80	1.18 – 4.91	12.7
1	A	68	LEU	HD21	-2.77	-0.65 – 2.13	-12.6
1	A	68	LEU	HD22	-2.77	-0.65 – 2.13	-12.6
1	A	68	LEU	HD23	-2.77	-0.65 – 2.13	-12.6
1	A	29	GLY	HA3	-0.27	2.08 – 5.71	-11.5
1	A	18	HIS	HA	8.52	2.49 – 6.71	9.3
1	A	30	PRO	HG2	-0.63	0.41 – 3.45	-8.4
1	A	46	TYR	HD1	4.55	5.49 – 8.39	-8.3
1	A	61	GLU	HG2	0.85	1.24 – 3.30	-6.9
1	A	30	PRO	HB2	-0.24	0.37 – 3.78	-6.8
1	A	46	TYR	HE2	5.22	5.58 – 7.83	-6.6
1	A	68	LEU	HD11	-0.99	-0.61 – 2.12	-6.4
1	A	68	LEU	HD12	-0.99	-0.61 – 2.12	-6.4
1	A	68	LEU	HD13	-0.99	-0.61 – 2.12	-6.4
1	A	41	GLY	HA2	1.66	2.15 – 5.77	-6.3
1	A	64	MET	HE1	-0.52	-0.03 – 3.80	-6.3
1	A	64	MET	HE2	-0.52	-0.03 – 3.80	-6.3
1	A	64	MET	HE3	-0.52	-0.03 – 3.80	-6.3
1	A	14	CYS	HA	1.47	1.97 – 7.35	-5.9
1	A	46	TYR	HB2	0.77	1.09 – 4.72	-5.9

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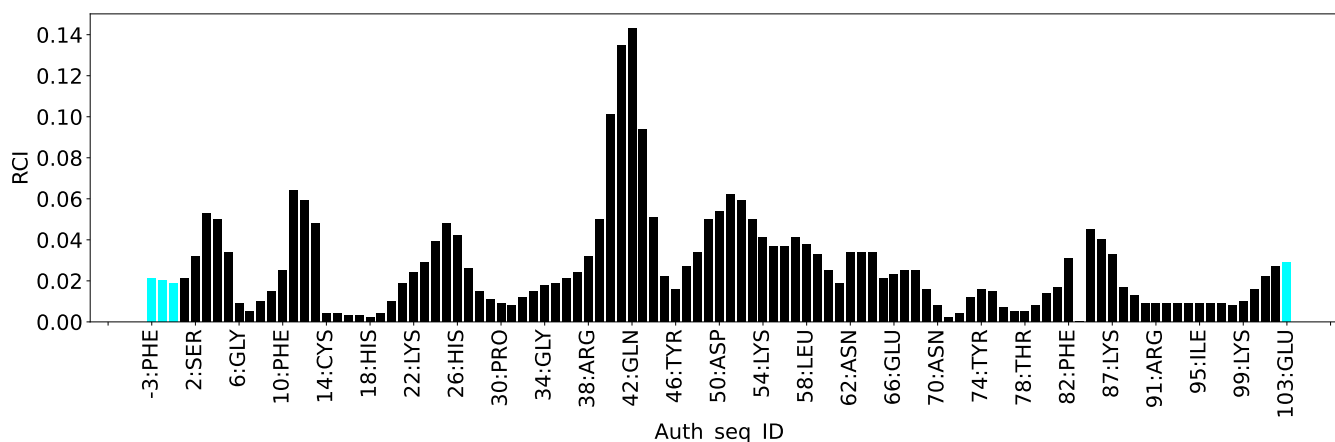
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List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	28	VAL	HG11	-0.62	-0.48 – 2.12	-5.6
1	A	28	VAL	HG12	-0.62	-0.48 – 2.12	-5.6
1	A	28	VAL	HG13	-0.62	-0.48 – 2.12	-5.6
1	A	79	LYS	HG2	-0.01	0.13 – 2.61	-5.5
1	A	75	ILE	HB	3.27	0.35 – 3.22	5.2

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	1746
Intra-residue ($ i-j =0$)	667
Sequential ($ i-j =1$)	318
Medium range ($ i-j >1$ and $ i-j <5$)	297
Long range ($ i-j \geq 5$)	387
Inter-chain	77
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	16.0
Number of long range restraints per residue ¹	3.6

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)	44.0	0.2
0.2-0.5 (Medium)	6.8	0.34
>0.5 (Large)	None	None

8.2.2 Average number of dihedral-angle violations per model

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

9 Distance violation analysis [i](#)

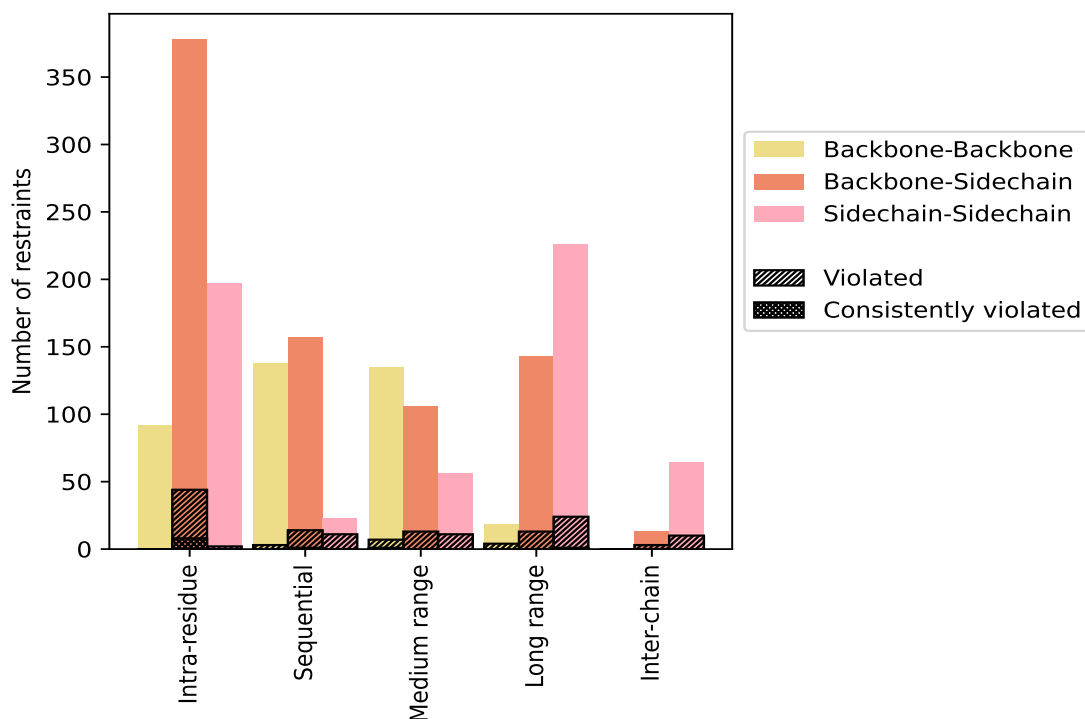
9.1 Summary of distance violations [i](#)

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	667	38.2	46	6.9	2.6	8	1.2	0.5
Backbone-Backbone	92	5.3	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	378	21.6	44	11.6	2.5	8	2.1	0.5
Sidechain-Sidechain	197	11.3	2	1.0	0.1	0	0.0	0.0
Sequential ($i-j =1$)	318	18.2	28	8.8	1.6	1	0.3	0.1
Backbone-Backbone	138	7.9	3	2.2	0.2	0	0.0	0.0
Backbone-Sidechain	157	9.0	14	8.9	0.8	1	0.6	0.1
Sidechain-Sidechain	23	1.3	11	47.8	0.6	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	297	17.0	31	10.4	1.8	1	0.3	0.1
Backbone-Backbone	135	7.7	7	5.2	0.4	1	0.7	0.1
Backbone-Sidechain	106	6.1	13	12.3	0.7	0	0.0	0.0
Sidechain-Sidechain	56	3.2	11	19.6	0.6	0	0.0	0.0
Long range ($i-j \geq 5$)	387	22.2	41	10.6	2.3	1	0.3	0.1
Backbone-Backbone	18	1.0	4	22.2	0.2	0	0.0	0.0
Backbone-Sidechain	143	8.2	13	9.1	0.7	0	0.0	0.0
Sidechain-Sidechain	226	12.9	24	10.6	1.4	1	0.4	0.1
Inter-chain	77	4.4	13	16.9	0.7	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	13	0.7	3	23.1	0.2	0	0.0	0.0
Sidechain-Sidechain	64	3.7	10	15.6	0.6	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	1746	100.0	159	9.1	9.1	11	0.6	0.6
Backbone-Backbone	383	21.9	14	3.7	0.8	1	0.3	0.1
Backbone-Sidechain	797	45.6	87	10.9	5.0	9	1.1	0.5
Sidechain-Sidechain	566	32.4	58	10.2	3.3	1	0.2	0.1

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	25	14	8	12	1	60	0.14	0.24	0.04	0.12
2	23	10	14	19	5	71	0.15	0.28	0.04	0.13
3	26	9	9	8	5	57	0.15	0.25	0.04	0.13
4	19	8	6	13	1	47	0.15	0.25	0.04	0.13
5	20	11	10	9	5	55	0.15	0.25	0.04	0.14
6	21	9	12	13	2	57	0.15	0.26	0.04	0.14
7	22	12	10	10	4	58	0.15	0.27	0.04	0.13
8	22	9	9	7	3	50	0.14	0.28	0.04	0.13
9	21	6	9	11	2	49	0.14	0.23	0.04	0.13
10	24	11	12	8	5	60	0.15	0.32	0.05	0.13

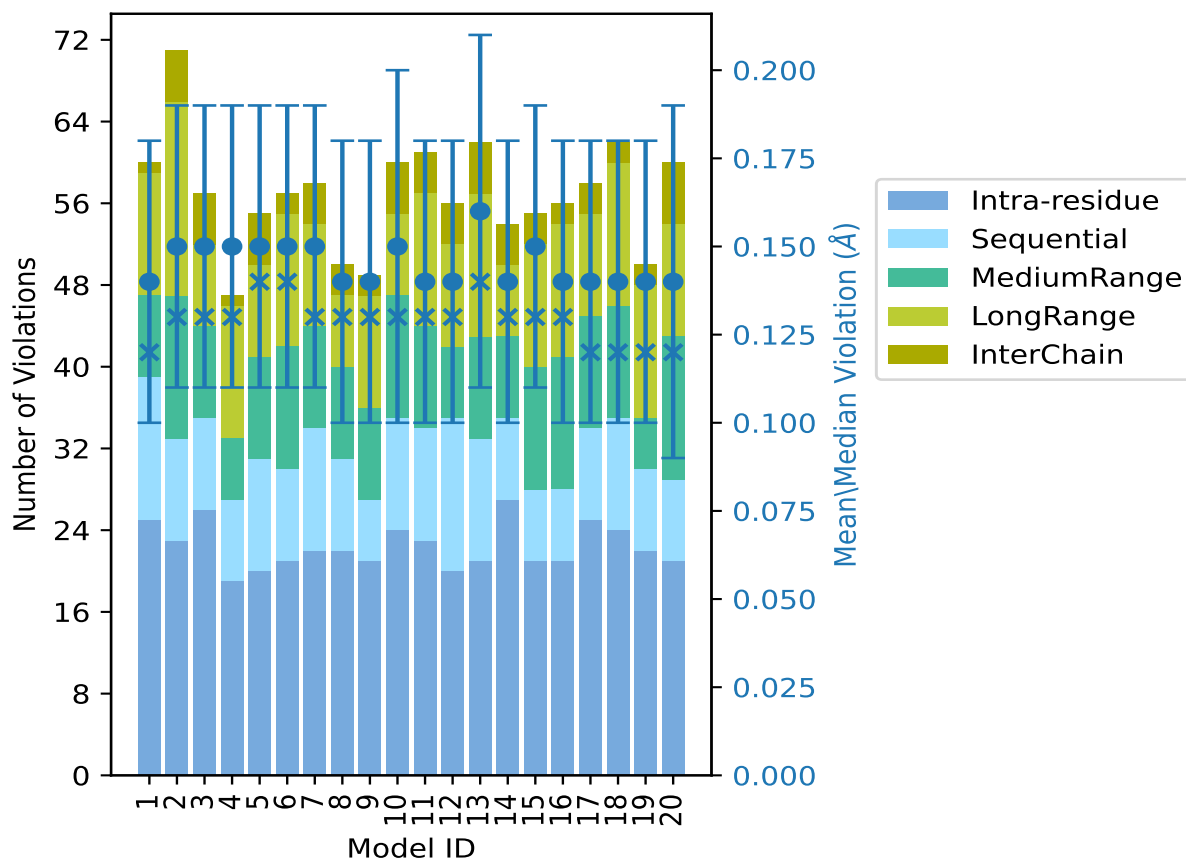
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	23	11	10	13	4	61	0.14	0.24	0.04	0.13
12	20	15	7	10	4	56	0.14	0.29	0.04	0.13
13	21	12	10	14	5	62	0.16	0.31	0.05	0.14
14	27	8	8	7	4	54	0.14	0.24	0.04	0.13
15	21	7	12	12	3	55	0.15	0.24	0.04	0.13
16	21	7	13	13	2	56	0.14	0.29	0.04	0.13
17	25	9	11	10	3	58	0.14	0.24	0.04	0.12
18	24	11	11	14	2	62	0.14	0.24	0.04	0.12
19	22	8	5	13	2	50	0.14	0.26	0.04	0.12
20	21	8	14	11	6	60	0.14	0.34	0.05	0.12

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints, ⁵Inter-chain restraints, ⁶Standard deviation

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



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

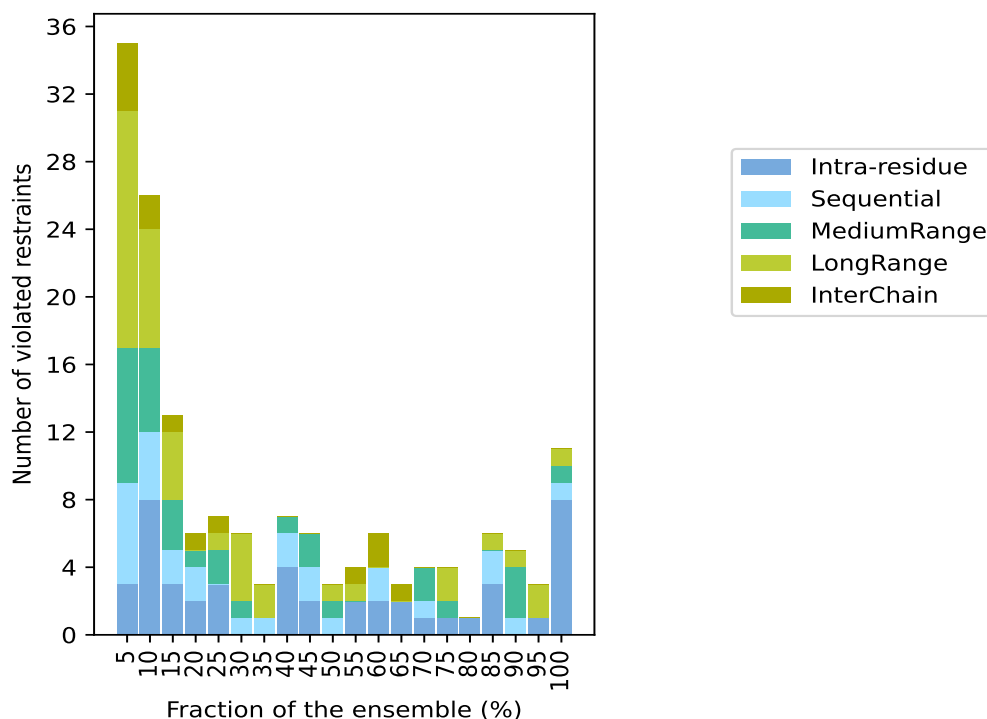
9.3 Distance violation statistics for the ensemble

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, 1587(IR:621, SQ:290, MR:266, LR:346, IC:64) 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	%
3	6	8	14	4	35	1	5.0
8	4	5	7	2	26	2	10.0
3	2	3	4	1	13	3	15.0
2	2	1	0	1	6	4	20.0
3	0	2	1	1	7	5	25.0
0	1	1	4	0	6	6	30.0
0	1	0	2	0	3	7	35.0
4	2	1	0	0	7	8	40.0
2	2	2	0	0	6	9	45.0
0	1	1	1	0	3	10	50.0
2	0	0	1	1	4	11	55.0
2	2	0	0	2	6	12	60.0
2	0	0	0	1	3	13	65.0
1	1	2	0	0	4	14	70.0
1	0	1	2	0	4	15	75.0
1	0	0	0	0	1	16	80.0
3	2	0	1	0	6	17	85.0
0	1	3	1	0	5	18	90.0
1	0	0	2	0	3	19	95.0
8	1	1	1	0	11	20	100.0

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

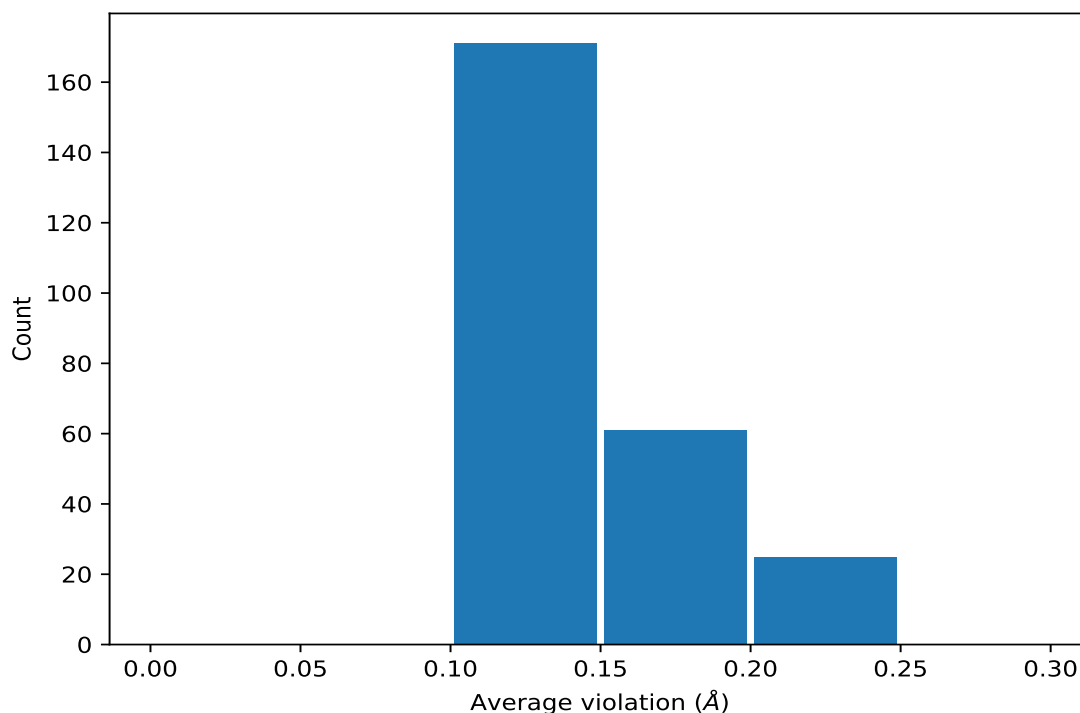
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	20	0.23	0.01	0.23
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	20	0.23	0.01	0.23
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	20	0.23	0.01	0.23
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	20	0.23	0.01	0.23
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	20	0.23	0.01	0.23
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	20	0.23	0.01	0.23
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	20	0.19	0.01	0.19
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	20	0.18	0.01	0.18
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	20	0.16	0.03	0.16
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	20	0.16	0.03	0.16
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	20	0.13	0.0	0.13
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	20	0.12	0.0	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	20	0.12	0.0	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	20	0.12	0.0	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	20	0.12	0.0	0.12
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	20	0.11	0.0	0.11

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	19	0.2	0.05	0.22
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	19	0.16	0.04	0.15
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	19	0.16	0.04	0.15
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	19	0.15	0.04	0.14
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	18	0.19	0.04	0.19
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	18	0.18	0.06	0.16
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	18	0.16	0.03	0.16
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	18	0.16	0.03	0.16
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	18	0.16	0.03	0.16
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	18	0.16	0.03	0.16
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	18	0.16	0.03	0.16
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	18	0.16	0.03	0.16
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	18	0.14	0.02	0.14
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	18	0.13	0.02	0.14
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	18	0.13	0.02	0.14
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	17	0.24	0.0	0.24
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	17	0.24	0.0	0.24
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	17	0.24	0.0	0.24
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	17	0.14	0.02	0.15
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	17	0.14	0.02	0.13
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	17	0.14	0.02	0.13
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	17	0.14	0.02	0.13
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	17	0.13	0.02	0.13
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	17	0.13	0.02	0.13
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	17	0.12	0.0	0.12
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	17	0.12	0.0	0.12
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	16	0.14	0.02	0.15
(1,1413)	1:85:A:LEU:HA	1:91:A:ARG:H	15	0.18	0.04	0.18
(1,1331)	1:78:A:THR:HA	1:76:A:PRO:HA	15	0.15	0.03	0.14
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE1	15	0.14	0.02	0.15
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE2	15	0.14	0.02	0.15
(1,1484)	1:92:A:ASN:HB3	1:92:A:ASN:H	15	0.1	0.0	0.1
(1,369)	1:17:A:CYS:HA	1:19:A:THR:H	14	0.15	0.04	0.15
(1,987)	1:58:A:LEU:HG	1:59:A:TRP:HE3	14	0.12	0.01	0.12
(1,272)	1:11:A:LYS:HA	1:14:A:CYS:H	14	0.12	0.01	0.12
(1,385)	1:19:A:THR:HA	1:19:A:THR:HB	14	0.11	0.01	0.12
(1,1721)	2:104:A:HEC:HAC	1:18:A:HIS:HD2	13	0.14	0.02	0.14
(1,1387)	1:85:A:LEU:HB3	1:85:A:LEU:H	13	0.13	0.02	0.13
(1,1212)	1:68:A:LEU:HB3	1:68:A:LEU:H	13	0.11	0.0	0.11
(1,1001)	1:58:A:LEU:HD12	1:59:A:TRP:HD1	12	0.19	0.07	0.15
(1,1001)	1:58:A:LEU:HD11	1:59:A:TRP:HD1	12	0.19	0.07	0.15
(1,1001)	1:58:A:LEU:HD13	1:59:A:TRP:HD1	12	0.19	0.07	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1746)	2:104:A:HEC:HHB	1:71:A:HIS:HD2	12	0.17	0.06	0.16
(1,1746)	2:104:A:HEC:HHB	1:71:A:HIS:HD1	12	0.17	0.06	0.16
(1,1291)	1:72:A:ALA:HB1	2:104:A:HEC:HAA2	12	0.16	0.03	0.17
(1,1291)	1:72:A:ALA:HB2	2:104:A:HEC:HAA2	12	0.16	0.03	0.17
(1,1291)	1:72:A:ALA:HB3	2:104:A:HEC:HAA2	12	0.16	0.03	0.17
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD21	12	0.12	0.01	0.12
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD22	12	0.12	0.01	0.12
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD23	12	0.12	0.01	0.12
(1,813)	1:48:A:TYR:HB3	1:48:A:TYR:H	12	0.11	0.01	0.1
(1,839)	1:50:A:ASP:HB3	1:50:A:ASP:H	12	0.1	0.0	0.1
(1,889)	1:52:A:ASN:HD21	2:104:A:HEC:HAD1	11	0.18	0.04	0.18
(1,889)	1:52:A:ASN:HD22	2:104:A:HEC:HAD1	11	0.18	0.04	0.18
(1,417)	1:20:A:VAL:HA	1:33:A:HIS:H	11	0.17	0.03	0.17
(1,169)	1:9:A:LEU:HD11	1:9:A:LEU:H	11	0.12	0.01	0.11
(1,169)	1:9:A:LEU:HD12	1:9:A:LEU:H	11	0.12	0.01	0.11
(1,169)	1:9:A:LEU:HD13	1:9:A:LEU:H	11	0.12	0.01	0.11
(1,169)	1:9:A:LEU:HD21	1:9:A:LEU:H	11	0.12	0.01	0.11
(1,169)	1:9:A:LEU:HD22	1:9:A:LEU:H	11	0.12	0.01	0.11
(1,169)	1:9:A:LEU:HD23	1:9:A:LEU:H	11	0.12	0.01	0.11
(1,486)	1:28:A:VAL:HA	1:28:A:VAL:HB	11	0.12	0.01	0.12
(1,464)	1:26:A:HIS:HA	1:31:A:ASN:HB3	10	0.15	0.03	0.15
(1,1154)	1:64:A:MET:HE1	1:68:A:LEU:H	10	0.14	0.03	0.13
(1,1154)	1:64:A:MET:HE2	1:68:A:LEU:H	10	0.14	0.03	0.13
(1,1154)	1:64:A:MET:HE3	1:68:A:LEU:H	10	0.14	0.03	0.13
(1,1528)	1:94:A:LEU:HD11	1:95:A:ILE:HG12	10	0.13	0.01	0.14
(1,1528)	1:94:A:LEU:HD12	1:95:A:ILE:HG12	10	0.13	0.01	0.14
(1,1528)	1:94:A:LEU:HD13	1:95:A:ILE:HG12	10	0.13	0.01	0.14
(1,630)	1:36:A:PHE:HD1	1:33:A:HIS:HA	9	0.18	0.04	0.17
(1,630)	1:36:A:PHE:HD2	1:33:A:HIS:HA	9	0.18	0.04	0.17
(1,1288)	1:72:A:ALA:HB1	1:73:A:LYS:H	9	0.15	0.03	0.14
(1,1288)	1:72:A:ALA:HB2	1:73:A:LYS:H	9	0.15	0.03	0.14
(1,1288)	1:72:A:ALA:HB3	1:73:A:LYS:H	9	0.15	0.03	0.14
(1,1451)	1:89:A:LYS:HB2	1:90:A:ASP:H	9	0.15	0.02	0.14
(1,930)	1:55:A:LYS:HB3	1:55:A:LYS:H	9	0.14	0.01	0.14
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD11	9	0.13	0.02	0.13
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD12	9	0.13	0.02	0.13
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD13	9	0.13	0.02	0.13
(1,1122)	1:64:A:MET:HB3	1:64:A:MET:H	9	0.1	0.0	0.1
(1,564)	1:32:A:LEU:HB2	1:33:A:HIS:HB3	8	0.17	0.03	0.17
(1,564)	1:32:A:LEU:HB3	1:33:A:HIS:HB3	8	0.17	0.03	0.17
(1,1537)	1:94:A:LEU:HB2	1:95:A:ILE:H	8	0.16	0.02	0.16
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD21	8	0.16	0.06	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD22	8	0.16	0.06	0.14
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD23	8	0.16	0.06	0.14
(1,550)	1:32:A:LEU:HB3	1:32:A:LEU:H	8	0.15	0.03	0.15
(1,1393)	1:85:A:LEU:HD11	1:85:A:LEU:H	8	0.12	0.02	0.12
(1,1393)	1:85:A:LEU:HD12	1:85:A:LEU:H	8	0.12	0.02	0.12
(1,1393)	1:85:A:LEU:HD13	1:85:A:LEU:H	8	0.12	0.02	0.12
(1,96)	1:5:A:LYS:HB3	1:5:A:LYS:H	8	0.1	0.0	0.1
(1,1101)	1:63:A:ASN:HB3	1:63:A:ASN:H	8	0.1	0.0	0.1
(1,614)	1:35:A:ILE:HG23	1:59:A:TRP:HD1	7	0.24	0.06	0.23
(1,614)	1:35:A:ILE:HG21	1:59:A:TRP:HD1	7	0.24	0.06	0.23
(1,614)	1:35:A:ILE:HG22	1:59:A:TRP:HD1	7	0.24	0.06	0.23
(1,481)	1:27:A:LYS:HG2	1:28:A:VAL:H	7	0.23	0.06	0.24
(1,481)	1:27:A:LYS:HG3	1:28:A:VAL:H	7	0.23	0.06	0.24
(1,722)	1:40:A:SER:HB2	1:52:A:ASN:HD21	7	0.12	0.02	0.13
(1,722)	1:40:A:SER:HB2	1:52:A:ASN:HD22	7	0.12	0.02	0.13
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG21	6	0.18	0.04	0.18
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG22	6	0.18	0.04	0.18
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG23	6	0.18	0.04	0.18
(1,565)	1:32:A:LEU:HD11	1:42:A:GLN:H	6	0.17	0.03	0.16
(1,565)	1:32:A:LEU:HD12	1:42:A:GLN:H	6	0.17	0.03	0.16
(1,565)	1:32:A:LEU:HD13	1:42:A:GLN:H	6	0.17	0.03	0.16
(1,377)	1:18:A:HIS:HD1	1:31:A:ASN:HD21	6	0.14	0.04	0.14
(1,377)	1:18:A:HIS:HD1	1:31:A:ASN:HD22	6	0.14	0.04	0.14
(1,613)	1:35:A:ILE:HG21	1:59:A:TRP:HB2	6	0.14	0.02	0.14
(1,613)	1:35:A:ILE:HG21	1:59:A:TRP:HB3	6	0.14	0.02	0.14
(1,613)	1:35:A:ILE:HG22	1:59:A:TRP:HB2	6	0.14	0.02	0.14
(1,613)	1:35:A:ILE:HG22	1:59:A:TRP:HB3	6	0.14	0.02	0.14
(1,613)	1:35:A:ILE:HG23	1:59:A:TRP:HB2	6	0.14	0.02	0.14
(1,613)	1:35:A:ILE:HG23	1:59:A:TRP:HB3	6	0.14	0.02	0.14
(1,699)	1:39:A:HIS:HB3	1:42:A:GLN:H	6	0.13	0.02	0.14
(1,1409)	1:85:A:LEU:HD11	1:90:A:ASP:HB2	6	0.12	0.01	0.11
(1,1409)	1:85:A:LEU:HD12	1:90:A:ASP:HB2	6	0.12	0.01	0.11
(1,1409)	1:85:A:LEU:HD13	1:90:A:ASP:HB2	6	0.12	0.01	0.11
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD1	5	0.15	0.02	0.15
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD2	5	0.15	0.02	0.15
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD3	5	0.15	0.02	0.15
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC1	5	0.13	0.03	0.12
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC2	5	0.13	0.03	0.12
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC3	5	0.13	0.03	0.12
(1,735)	1:40:A:SER:HB2	1:56:A:ASN:HB2	5	0.12	0.01	0.12
(1,273)	1:11:A:LYS:HA	1:14:A:CYS:HB2	5	0.12	0.01	0.11
(1,273)	1:11:A:LYS:HA	1:14:A:CYS:HB3	5	0.12	0.01	0.11

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,66)	1:2:A:SER:HA	1:2:A:SER:HB3	5	0.11	0.01	0.12
(1,74)	1:2:A:SER:H	1:4:A:LYS:HE2	5	0.11	0.0	0.11
(1,74)	1:2:A:SER:H	1:4:A:LYS:HE3	5	0.11	0.0	0.11
(1,1415)	1:86:A:LYS:HB3	1:86:A:LYS:H	5	0.1	0.0	0.1
(1,1314)	1:75:A:ILE:HD11	1:78:A:THR:H	4	0.21	0.02	0.21
(1,1314)	1:75:A:ILE:HD12	1:78:A:THR:H	4	0.21	0.02	0.21
(1,1314)	1:75:A:ILE:HD13	1:78:A:THR:H	4	0.21	0.02	0.21
(1,1724)	2:104:A:HEC:HAD1	1:46:A:TYR:HD1	4	0.13	0.03	0.12
(1,1724)	2:104:A:HEC:HAD1	1:46:A:TYR:HD2	4	0.13	0.03	0.12
(1,1724)	2:104:A:HEC:HAD2	1:46:A:TYR:HD1	4	0.13	0.03	0.12
(1,1724)	2:104:A:HEC:HAD2	1:46:A:TYR:HD2	4	0.13	0.03	0.12
(1,1268)	1:70:A:ASN:HB2	1:71:A:HIS:HA	4	0.13	0.02	0.12
(1,498)	1:28:A:VAL:HG21	1:29:A:GLY:H	4	0.12	0.01	0.12
(1,498)	1:28:A:VAL:HG22	1:29:A:GLY:H	4	0.12	0.01	0.12
(1,498)	1:28:A:VAL:HG23	1:29:A:GLY:H	4	0.12	0.01	0.12
(1,11)	1:-3:A:PHE:HB3	1:-3:A:PHE:HA	4	0.12	0.0	0.12
(1,1440)	1:89:A:LYS:HB3	1:89:A:LYS:H	4	0.1	0.0	0.1
(1,144)	1:8:A:THR:HG21	1:8:A:THR:H	3	0.24	0.0	0.24
(1,144)	1:8:A:THR:HG22	1:8:A:THR:H	3	0.24	0.0	0.24
(1,144)	1:8:A:THR:HG23	1:8:A:THR:H	3	0.24	0.0	0.24
(1,371)	1:18:A:HIS:HB2	1:18:A:HIS:H	3	0.22	0.01	0.22
(1,781)	1:45:A:GLY:HA2	1:26:A:HIS:HD1	3	0.18	0.01	0.19
(1,781)	1:45:A:GLY:HA3	1:26:A:HIS:HD1	3	0.18	0.01	0.19
(1,522)	1:30:A:PRO:HA	1:31:A:ASN:HA	3	0.15	0.02	0.16
(1,562)	1:32:A:LEU:HD11	2:104:A:HEC:HMB1	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD11	2:104:A:HEC:HMB2	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD11	2:104:A:HEC:HMB3	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD12	2:104:A:HEC:HMB1	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD12	2:104:A:HEC:HMB2	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD12	2:104:A:HEC:HMB3	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD13	2:104:A:HEC:HMB1	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD13	2:104:A:HEC:HMB2	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD13	2:104:A:HEC:HMB3	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD21	2:104:A:HEC:HMB1	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD21	2:104:A:HEC:HMB2	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD21	2:104:A:HEC:HMB3	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD22	2:104:A:HEC:HMB1	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD22	2:104:A:HEC:HMB2	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD22	2:104:A:HEC:HMB3	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD23	2:104:A:HEC:HMB1	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD23	2:104:A:HEC:HMB2	3	0.14	0.0	0.14
(1,562)	1:32:A:LEU:HD23	2:104:A:HEC:HMB3	3	0.14	0.0	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1380)	1:82:A:PHE:HZ	1:85:A:LEU:HG	3	0.14	0.02	0.15
(1,516)	1:29:A:GLY:HA2	1:31:A:ASN:HD21	3	0.13	0.02	0.13
(1,516)	1:29:A:GLY:HA3	1:31:A:ASN:HD21	3	0.13	0.02	0.13
(1,145)	1:8:A:THR:HB	1:8:A:THR:HA	3	0.12	0.0	0.12
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD11	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD12	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD13	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD21	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD22	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD23	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD11	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD12	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD13	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD21	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD22	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD23	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD11	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD12	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD13	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD21	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD22	3	0.12	0.01	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD23	3	0.12	0.01	0.11
(1,682)	1:38:A:ARG:HD2	1:39:A:HIS:HE1	3	0.12	0.01	0.11
(1,682)	1:38:A:ARG:HD3	1:39:A:HIS:HE1	3	0.12	0.01	0.11
(1,1539)	1:94:A:LEU:HG	1:98:A:LEU:HG	3	0.12	0.0	0.12
(1,255)	1:10:A:PHE:HZ	1:19:A:THR:HB	3	0.11	0.0	0.11
(1,1034)	1:59:A:TRP:HZ3	1:64:A:MET:HB2	3	0.11	0.0	0.11
(1,1035)	1:59:A:TRP:HZ3	1:64:A:MET:HG3	2	0.22	0.02	0.22
(1,523)	1:30:A:PRO:HB2	1:32:A:LEU:H	2	0.2	0.09	0.2
(1,523)	1:30:A:PRO:HB3	1:32:A:LEU:H	2	0.2	0.09	0.2
(1,496)	1:28:A:VAL:HB	1:29:A:GLY:H	2	0.18	0.02	0.18
(1,776)	1:44:A:GLU:HG3	1:44:A:GLU:HA	2	0.17	0.0	0.17
(1,800)	1:46:A:TYR:HD2	1:48:A:TYR:H	2	0.17	0.03	0.17
(1,1376)	1:82:A:PHE:HZ	2:104:A:HEC:HHC	2	0.15	0.01	0.15
(1,536)	1:30:A:PRO:HB2	1:46:A:TYR:HA	2	0.15	0.0	0.15
(1,536)	1:30:A:PRO:HB3	1:46:A:TYR:HA	2	0.15	0.0	0.15
(1,449)	1:24:A:GLY:HA2	1:31:A:ASN:HD21	2	0.14	0.02	0.14
(1,449)	1:24:A:GLY:HA3	1:31:A:ASN:HD21	2	0.14	0.02	0.14
(1,890)	1:52:A:ASN:HD21	2:104:A:HEC:HAD2	2	0.14	0.01	0.14
(1,890)	1:52:A:ASN:HD22	2:104:A:HEC:HAD2	2	0.14	0.01	0.14
(1,555)	1:32:A:LEU:HD21	1:32:A:LEU:H	2	0.13	0.03	0.13
(1,555)	1:32:A:LEU:HD22	1:32:A:LEU:H	2	0.13	0.03	0.13

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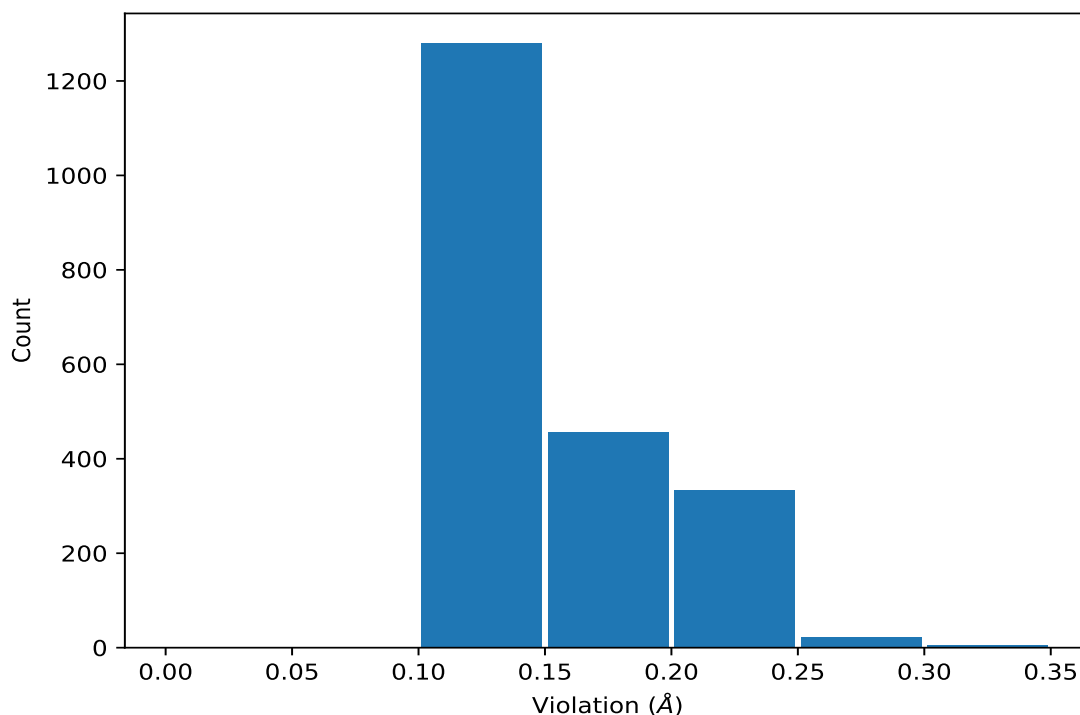
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,555)	1:32:A:LEU:HD23	1:32:A:LEU:H	2	0.13	0.03	0.13
(1,589)	1:35:A:ILE:HA	1:35:A:ILE:HB	2	0.12	0.01	0.12
(1,1233)	1:68:A:LEU:HG	1:69:A:THR:H	2	0.12	0.01	0.12
(1,257)	1:10:A:PHE:HZ	1:20:A:VAL:HB	2	0.12	0.02	0.12
(1,158)	1:8:A:THR:HB	1:11:A:LYS:HG2	2	0.12	0.01	0.12
(1,158)	1:8:A:THR:HB	1:11:A:LYS:HG3	2	0.12	0.01	0.12
(1,441)	1:23:A:GLY:H	1:33:A:HIS:HB2	2	0.12	0.0	0.12
(1,441)	1:23:A:GLY:H	1:33:A:HIS:HB3	2	0.12	0.0	0.12
(1,1424)	1:88:A:GLU:HA	1:88:A:GLU:HB3	2	0.12	0.0	0.12
(1,478)	1:27:A:LYS:HB3	1:27:A:LYS:H	2	0.12	0.02	0.12
(1,563)	1:32:A:LEU:HD11	1:35:A:ILE:H	2	0.12	0.0	0.12
(1,563)	1:32:A:LEU:HD12	1:35:A:ILE:H	2	0.12	0.0	0.12
(1,563)	1:32:A:LEU:HD13	1:35:A:ILE:H	2	0.12	0.0	0.12
(1,575)	1:34:A:GLY:HA2	1:33:A:HIS:H	2	0.12	0.0	0.12
(1,575)	1:34:A:GLY:HA3	1:33:A:HIS:H	2	0.12	0.0	0.12
(1,1578)	1:95:A:ILE:HG21	1:94:A:LEU:H	2	0.12	0.0	0.12
(1,1578)	1:95:A:ILE:HG22	1:94:A:LEU:H	2	0.12	0.0	0.12
(1,1578)	1:95:A:ILE:HG23	1:94:A:LEU:H	2	0.12	0.0	0.12
(1,263)	1:11:A:LYS:HB2	1:11:A:LYS:H	2	0.11	0.0	0.11
(1,1245)	1:69:A:THR:HB	1:69:A:THR:H	2	0.11	0.0	0.11
(1,1289)	1:72:A:ALA:H	1:78:A:THR:HB	2	0.11	0.01	0.11
(1,596)	1:35:A:ILE:HD11	1:32:A:LEU:HB3	2	0.11	0.0	0.11
(1,596)	1:35:A:ILE:HD12	1:32:A:LEU:HB3	2	0.11	0.0	0.11
(1,596)	1:35:A:ILE:HD13	1:32:A:LEU:HB3	2	0.11	0.0	0.11
(1,246)	1:10:A:PHE:HE1	1:19:A:THR:HG21	2	0.1	0.0	0.1
(1,246)	1:10:A:PHE:HE1	1:19:A:THR:HG22	2	0.1	0.0	0.1
(1,246)	1:10:A:PHE:HE1	1:19:A:THR:HG23	2	0.1	0.0	0.1
(1,246)	1:10:A:PHE:HE2	1:19:A:THR:HG21	2	0.1	0.0	0.1
(1,246)	1:10:A:PHE:HE2	1:19:A:THR:HG22	2	0.1	0.0	0.1
(1,246)	1:10:A:PHE:HE2	1:19:A:THR:HG23	2	0.1	0.0	0.1
(1,262)	1:11:A:LYS:HB3	1:11:A:LYS:H	2	0.1	0.0	0.1

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,614)	1:35:A:ILE:HG21	1:59:A:TRP:HD1	20	0.34
(1,1001)	1:58:A:LEU:HD11	1:59:A:TRP:HD1	10	0.32
(1,1001)	1:58:A:LEU:HD11	1:59:A:TRP:HD1	13	0.31
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD21	10	0.3
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD22	10	0.3
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD23	10	0.3
(1,614)	1:35:A:ILE:HG21	1:59:A:TRP:HD1	16	0.29
(1,523)	1:30:A:PRO:HB2	1:32:A:LEU:H	10	0.29
(1,523)	1:30:A:PRO:HB3	1:32:A:LEU:H	10	0.29
(1,481)	1:27:A:LYS:HG2	1:28:A:VAL:H	12	0.29
(1,481)	1:27:A:LYS:HG3	1:28:A:VAL:H	12	0.29
(1,1746)	2:104:A:HEC:HHB	1:71:A:HIS:HD2	13	0.28
(1,1001)	1:58:A:LEU:HD11	1:59:A:TRP:HD1	8	0.28
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	2	0.28
(1,1746)	2:104:A:HEC:HHB	1:71:A:HIS:HD1	7	0.27
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	13	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	6	0.26
(1,481)	1:27:A:LYS:HG2	1:28:A:VAL:H	13	0.26
(1,481)	1:27:A:LYS:HG3	1:28:A:VAL:H	13	0.26
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	19	0.26
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	4	0.25
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	4	0.25
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	4	0.25
(1,1413)	1:85:A:LEU:HA	1:91:A:ARG:H	19	0.25
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	2	0.25
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	3	0.25
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	8	0.25
(1,369)	1:17:A:CYS:HA	1:19:A:THR:H	5	0.25
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	1	0.24
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	1	0.24
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	1	0.24
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	3	0.24
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	3	0.24
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	3	0.24
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	12	0.24
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	12	0.24
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	12	0.24
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	13	0.24
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	13	0.24
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	13	0.24
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	5	0.24
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	5	0.24
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	5	0.24
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	7	0.24
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	7	0.24
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	7	0.24
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	14	0.24
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	14	0.24
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	14	0.24
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	15	0.24
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	15	0.24
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	15	0.24
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	18	0.24
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	18	0.24
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	18	0.24
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	19	0.24
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	19	0.24
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	19	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1413)	1:85:A:LEU:HA	1:91:A:ARG:H	3	0.24
(1,1314)	1:75:A:ILE:HD11	1:78:A:THR:H	10	0.24
(1,1314)	1:75:A:ILE:HD12	1:78:A:THR:H	10	0.24
(1,1314)	1:75:A:ILE:HD13	1:78:A:THR:H	10	0.24
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	1	0.24
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	1	0.24
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	1	0.24
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	2	0.24
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	2	0.24
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	2	0.24
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	4	0.24
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	4	0.24
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	4	0.24
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	7	0.24
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	7	0.24
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	7	0.24
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	10	0.24
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	10	0.24
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	10	0.24
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	11	0.24
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	11	0.24
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	11	0.24
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	13	0.24
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	13	0.24
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	13	0.24
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	14	0.24
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	14	0.24
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	14	0.24
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	15	0.24
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	15	0.24
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	15	0.24
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	16	0.24
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	16	0.24
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	16	0.24
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	17	0.24
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	17	0.24
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	17	0.24
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	18	0.24
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	18	0.24
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	18	0.24
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	20	0.24
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	20	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	20	0.24
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	2	0.24
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	20	0.24
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	20	0.24
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	1	0.24
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	1	0.24
(1,630)	1:36:A:PHE:HD1	1:33:A:HIS:HA	5	0.24
(1,630)	1:36:A:PHE:HD2	1:33:A:HIS:HA	5	0.24
(1,481)	1:27:A:LYS:HG2	1:28:A:VAL:H	1	0.24
(1,481)	1:27:A:LYS:HG3	1:28:A:VAL:H	1	0.24
(1,481)	1:27:A:LYS:HG2	1:28:A:VAL:H	5	0.24
(1,481)	1:27:A:LYS:HG3	1:28:A:VAL:H	5	0.24
(1,481)	1:27:A:LYS:HG2	1:28:A:VAL:H	11	0.24
(1,481)	1:27:A:LYS:HG3	1:28:A:VAL:H	11	0.24
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	11	0.24
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	17	0.24
(1,144)	1:8:A:THR:HG21	1:8:A:THR:H	3	0.24
(1,144)	1:8:A:THR:HG22	1:8:A:THR:H	3	0.24
(1,144)	1:8:A:THR:HG23	1:8:A:THR:H	3	0.24
(1,144)	1:8:A:THR:HG21	1:8:A:THR:H	4	0.24
(1,144)	1:8:A:THR:HG22	1:8:A:THR:H	4	0.24
(1,144)	1:8:A:THR:HG23	1:8:A:THR:H	4	0.24
(1,144)	1:8:A:THR:HG21	1:8:A:THR:H	13	0.24
(1,144)	1:8:A:THR:HG22	1:8:A:THR:H	13	0.24
(1,144)	1:8:A:THR:HG23	1:8:A:THR:H	13	0.24
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	4	0.23
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	4	0.23
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	4	0.23
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	5	0.23
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	5	0.23
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	5	0.23
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	6	0.23
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	6	0.23
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	6	0.23
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	8	0.23
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	8	0.23
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	8	0.23
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	9	0.23
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	9	0.23
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	9	0.23
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	10	0.23
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	10	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	10	0.23
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	11	0.23
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	11	0.23
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	11	0.23
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	14	0.23
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	14	0.23
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	14	0.23
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	16	0.23
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	16	0.23
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	16	0.23
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	17	0.23
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	17	0.23
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	17	0.23
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	18	0.23
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	18	0.23
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	18	0.23
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	19	0.23
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	19	0.23
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	19	0.23
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	1	0.23
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	1	0.23
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	1	0.23
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	6	0.23
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	6	0.23
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	6	0.23
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	9	0.23
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	9	0.23
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	9	0.23
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	11	0.23
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	11	0.23
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	11	0.23
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	13	0.23
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	13	0.23
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	13	0.23
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	3	0.23
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	3	0.23
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	3	0.23
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	6	0.23
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	6	0.23
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	6	0.23
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	9	0.23
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	9	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	9	0.23
(1,1246)	1:69:A:THR:HG21	1:69:A:THR:H	19	0.23
(1,1246)	1:69:A:THR:HG22	1:69:A:THR:H	19	0.23
(1,1246)	1:69:A:THR:HG23	1:69:A:THR:H	19	0.23
(1,1035)	1:59:A:TRP:HZ3	1:64:A:MET:HG3	10	0.23
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	14	0.23
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	16	0.23
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	16	0.23
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	3	0.23
(1,614)	1:35:A:ILE:HG23	1:59:A:TRP:HD1	1	0.23
(1,614)	1:35:A:ILE:HG22	1:59:A:TRP:HD1	13	0.23
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	1	0.23
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	9	0.23
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG21	10	0.23
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG22	10	0.23
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG23	10	0.23
(1,371)	1:18:A:HIS:HB2	1:18:A:HIS:H	12	0.23
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	2	0.22
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	2	0.22
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	2	0.22
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	7	0.22
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	7	0.22
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	7	0.22
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	15	0.22
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	15	0.22
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	15	0.22
(1,1584)	1:96:A:THR:HG21	1:96:A:THR:H	20	0.22
(1,1584)	1:96:A:THR:HG22	1:96:A:THR:H	20	0.22
(1,1584)	1:96:A:THR:HG23	1:96:A:THR:H	20	0.22
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	2	0.22
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	2	0.22
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	2	0.22
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	3	0.22
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	3	0.22
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	3	0.22
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	8	0.22
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	8	0.22
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	8	0.22
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	10	0.22
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	10	0.22
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	10	0.22
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	12	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	12	0.22
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	12	0.22
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	20	0.22
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	20	0.22
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	20	0.22
(1,1413)	1:85:A:LEU:HA	1:91:A:ARG:H	4	0.22
(1,1413)	1:85:A:LEU:HA	1:91:A:ARG:H	15	0.22
(1,1413)	1:85:A:LEU:HA	1:91:A:ARG:H	18	0.22
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD21	4	0.22
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD22	4	0.22
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD23	4	0.22
(1,889)	1:52:A:ASN:HD21	2:104:A:HEC:HAD1	2	0.22
(1,889)	1:52:A:ASN:HD22	2:104:A:HEC:HAD1	2	0.22
(1,889)	1:52:A:ASN:HD21	2:104:A:HEC:HAD1	3	0.22
(1,889)	1:52:A:ASN:HD22	2:104:A:HEC:HAD1	3	0.22
(1,889)	1:52:A:ASN:HD21	2:104:A:HEC:HAD1	13	0.22
(1,889)	1:52:A:ASN:HD22	2:104:A:HEC:HAD1	13	0.22
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	15	0.22
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	19	0.22
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	3	0.22
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	15	0.22
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	6	0.22
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	6	0.22
(1,630)	1:36:A:PHE:HD1	1:33:A:HIS:HA	15	0.22
(1,630)	1:36:A:PHE:HD2	1:33:A:HIS:HA	15	0.22
(1,614)	1:35:A:ILE:HG21	1:59:A:TRP:HD1	2	0.22
(1,565)	1:32:A:LEU:HD11	1:42:A:GLN:H	2	0.22
(1,565)	1:32:A:LEU:HD12	1:42:A:GLN:H	2	0.22
(1,565)	1:32:A:LEU:HD13	1:42:A:GLN:H	2	0.22
(1,564)	1:32:A:LEU:HB2	1:33:A:HIS:HB3	6	0.22
(1,564)	1:32:A:LEU:HB3	1:33:A:HIS:HB3	6	0.22
(1,481)	1:27:A:LYS:HG2	1:28:A:VAL:H	8	0.22
(1,481)	1:27:A:LYS:HG3	1:28:A:VAL:H	8	0.22
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	7	0.22
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	14	0.22
(1,417)	1:20:A:VAL:HA	1:33:A:HIS:H	5	0.22
(1,371)	1:18:A:HIS:HB2	1:18:A:HIS:H	6	0.22
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	16	0.21
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	16	0.21
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	16	0.21
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	16	0.21
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	16	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	16	0.21
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	17	0.21
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	17	0.21
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	17	0.21
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	17	0.21
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	17	0.21
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	17	0.21
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	16	0.21
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	16	0.21
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	16	0.21
(1,1554)	1:95:A:ILE:HG21	1:95:A:ILE:H	17	0.21
(1,1554)	1:95:A:ILE:HG22	1:95:A:ILE:H	17	0.21
(1,1554)	1:95:A:ILE:HG23	1:95:A:ILE:H	17	0.21
(1,1413)	1:85:A:LEU:HA	1:91:A:ARG:H	6	0.21
(1,1369)	1:82:A:PHE:H	1:81:A:ALA:H	12	0.21
(1,1314)	1:75:A:ILE:HD11	1:78:A:THR:H	9	0.21
(1,1314)	1:75:A:ILE:HD12	1:78:A:THR:H	9	0.21
(1,1314)	1:75:A:ILE:HD13	1:78:A:THR:H	9	0.21
(1,1314)	1:75:A:ILE:HD11	1:78:A:THR:H	15	0.21
(1,1314)	1:75:A:ILE:HD12	1:78:A:THR:H	15	0.21
(1,1314)	1:75:A:ILE:HD13	1:78:A:THR:H	15	0.21
(1,889)	1:52:A:ASN:HD21	2:104:A:HEC:HAD1	18	0.21
(1,889)	1:52:A:ASN:HD22	2:104:A:HEC:HAD1	18	0.21
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	3	0.21
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	16	0.21
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	15	0.21
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	20	0.21
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	9	0.21
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	9	0.21
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	5	0.21
(1,417)	1:20:A:VAL:HA	1:33:A:HIS:H	2	0.21
(1,1746)	2:104:A:HEC:HBB	1:71:A:HIS:HD2	10	0.2
(1,1746)	2:104:A:HEC:HBB	1:71:A:HIS:HD2	17	0.2
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	1	0.2
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	3	0.2
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	12	0.2
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	17	0.2
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	18	0.2
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	20	0.2
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	1	0.2
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	2	0.2
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	2	0.2
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	2	0.2
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	2	0.2
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	2	0.2
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	20	0.2
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	20	0.2
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	20	0.2
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	20	0.2
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	20	0.2
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	20	0.2
(1,1537)	1:94:A:LEU:HB2	1:95:A:ILE:H	4	0.2
(1,1331)	1:78:A:THR:HA	1:76:A:PRO:HA	15	0.2
(1,1291)	1:72:A:ALA:HB1	2:104:A:HEC:HAA2	3	0.2
(1,1291)	1:72:A:ALA:HB2	2:104:A:HEC:HAA2	3	0.2
(1,1291)	1:72:A:ALA:HB3	2:104:A:HEC:HAA2	3	0.2
(1,1291)	1:72:A:ALA:HB1	2:104:A:HEC:HAA2	6	0.2
(1,1291)	1:72:A:ALA:HB2	2:104:A:HEC:HAA2	6	0.2
(1,1291)	1:72:A:ALA:HB3	2:104:A:HEC:HAA2	6	0.2
(1,1291)	1:72:A:ALA:HB1	2:104:A:HEC:HAA2	12	0.2
(1,1291)	1:72:A:ALA:HB2	2:104:A:HEC:HAA2	12	0.2
(1,1291)	1:72:A:ALA:HB3	2:104:A:HEC:HAA2	12	0.2
(1,1288)	1:72:A:ALA:HB1	1:73:A:LYS:H	7	0.2
(1,1288)	1:72:A:ALA:HB2	1:73:A:LYS:H	7	0.2
(1,1288)	1:72:A:ALA:HB3	1:73:A:LYS:H	7	0.2
(1,1154)	1:64:A:MET:HE1	1:68:A:LEU:H	5	0.2
(1,1154)	1:64:A:MET:HE2	1:68:A:LEU:H	5	0.2
(1,1154)	1:64:A:MET:HE3	1:68:A:LEU:H	5	0.2
(1,1035)	1:59:A:TRP:HZ3	1:64:A:MET:HG3	7	0.2
(1,889)	1:52:A:ASN:HD21	2:104:A:HEC:HAD1	10	0.2
(1,889)	1:52:A:ASN:HD22	2:104:A:HEC:HAD1	10	0.2
(1,800)	1:46:A:TYR:HD2	1:48:A:TYR:H	20	0.2
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	12	0.2
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	1	0.2
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	7	0.2
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	4	0.2
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	4	0.2
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	13	0.2
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	17	0.2
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	17	0.2
(1,630)	1:36:A:PHE:HD1	1:33:A:HIS:HA	2	0.2
(1,630)	1:36:A:PHE:HD2	1:33:A:HIS:HA	2	0.2
(1,630)	1:36:A:PHE:HD1	1:33:A:HIS:HA	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,630)	1:36:A:PHE:HD2	1:33:A:HIS:HA	6	0.2
(1,496)	1:28:A:VAL:HB	1:29:A:GLY:H	6	0.2
(1,464)	1:26:A:HIS:HA	1:31:A:ASN:HB3	2	0.2
(1,417)	1:20:A:VAL:HA	1:33:A:HIS:H	15	0.2
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG21	11	0.2
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG22	11	0.2
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG23	11	0.2
(1,371)	1:18:A:HIS:HB2	1:18:A:HIS:H	18	0.2
(1,369)	1:17:A:CYS:HA	1:19:A:THR:H	6	0.2
(1,1746)	2:104:A:HEC:HBB	1:71:A:HIS:HD2	2	0.19
(1,1724)	2:104:A:HEC:HAD1	1:46:A:TYR:HD1	6	0.19
(1,1724)	2:104:A:HEC:HAD1	1:46:A:TYR:HD2	6	0.19
(1,1724)	2:104:A:HEC:HAD2	1:46:A:TYR:HD1	6	0.19
(1,1724)	2:104:A:HEC:HAD2	1:46:A:TYR:HD2	6	0.19
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	2	0.19
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	4	0.19
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	6	0.19
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	7	0.19
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	8	0.19
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	9	0.19
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	14	0.19
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	15	0.19
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	19	0.19
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	2	0.19
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	12	0.19
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	13	0.19
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	19	0.19
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	5	0.19
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	5	0.19
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	5	0.19
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	5	0.19
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	5	0.19
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	5	0.19
(1,1451)	1:89:A:LYS:HB2	1:90:A:ASP:H	3	0.19
(1,1413)	1:85:A:LEU:HA	1:91:A:ARG:H	20	0.19
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC1	5	0.19
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC2	5	0.19
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC3	5	0.19
(1,1331)	1:78:A:THR:HA	1:76:A:PRO:HA	9	0.19
(1,1291)	1:72:A:ALA:HB1	2:104:A:HEC:HAA2	18	0.19
(1,1291)	1:72:A:ALA:HB2	2:104:A:HEC:HAA2	18	0.19
(1,1291)	1:72:A:ALA:HB3	2:104:A:HEC:HAA2	18	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1288)	1:72:A:ALA:HB1	1:73:A:LYS:H	5	0.19
(1,1288)	1:72:A:ALA:HB2	1:73:A:LYS:H	5	0.19
(1,1288)	1:72:A:ALA:HB3	1:73:A:LYS:H	5	0.19
(1,1001)	1:58:A:LEU:HD12	1:59:A:TRP:HD1	12	0.19
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	15	0.19
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	8	0.19
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	9	0.19
(1,781)	1:45:A:GLY:HA2	1:26:A:HIS:HD1	1	0.19
(1,781)	1:45:A:GLY:HA3	1:26:A:HIS:HD1	1	0.19
(1,781)	1:45:A:GLY:HA2	1:26:A:HIS:HD1	13	0.19
(1,781)	1:45:A:GLY:HA3	1:26:A:HIS:HD1	13	0.19
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	9	0.19
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	1	0.19
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	1	0.19
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	19	0.19
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	19	0.19
(1,614)	1:35:A:ILE:HG21	1:59:A:TRP:HD1	18	0.19
(1,565)	1:32:A:LEU:HD11	1:42:A:GLN:H	13	0.19
(1,565)	1:32:A:LEU:HD12	1:42:A:GLN:H	13	0.19
(1,565)	1:32:A:LEU:HD13	1:42:A:GLN:H	13	0.19
(1,564)	1:32:A:LEU:HB2	1:33:A:HIS:HB3	16	0.19
(1,564)	1:32:A:LEU:HB3	1:33:A:HIS:HB3	16	0.19
(1,564)	1:32:A:LEU:HB2	1:33:A:HIS:HB3	18	0.19
(1,564)	1:32:A:LEU:HB3	1:33:A:HIS:HB3	18	0.19
(1,550)	1:32:A:LEU:HB3	1:32:A:LEU:H	2	0.19
(1,464)	1:26:A:HIS:HA	1:31:A:ASN:HB3	4	0.19
(1,464)	1:26:A:HIS:HA	1:31:A:ASN:HB3	11	0.19
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	10	0.19
(1,417)	1:20:A:VAL:HA	1:33:A:HIS:H	4	0.19
(1,377)	1:18:A:HIS:HD1	1:31:A:ASN:HD21	11	0.19
(1,377)	1:18:A:HIS:HD1	1:31:A:ASN:HD22	11	0.19
(1,377)	1:18:A:HIS:HD1	1:31:A:ASN:HD21	17	0.19
(1,377)	1:18:A:HIS:HD1	1:31:A:ASN:HD22	17	0.19
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	5	0.18
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	10	0.18
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	11	0.18
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	13	0.18
(1,1673)	1:101:A:ALA:H	1:103:A:GLU:H	16	0.18
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	3	0.18
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	4	0.18
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	5	0.18
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	6	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	7	0.18
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	8	0.18
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	9	0.18
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	10	0.18
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	11	0.18
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	14	0.18
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	15	0.18
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	16	0.18
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	17	0.18
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	18	0.18
(1,1668)	1:100:A:LYS:HB2	1:101:A:ALA:H	20	0.18
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	12	0.18
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	12	0.18
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	12	0.18
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	12	0.18
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	12	0.18
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	12	0.18
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	13	0.18
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	13	0.18
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	13	0.18
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	13	0.18
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	13	0.18
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	13	0.18
(1,1413)	1:85:A:LEU:HA	1:91:A:ARG:H	11	0.18
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD11	15	0.18
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD12	15	0.18
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD13	15	0.18
(1,1331)	1:78:A:THR:HA	1:76:A:PRO:HA	10	0.18
(1,1314)	1:75:A:ILE:HD11	1:78:A:THR:H	13	0.18
(1,1314)	1:75:A:ILE:HD12	1:78:A:THR:H	13	0.18
(1,1314)	1:75:A:ILE:HD13	1:78:A:THR:H	13	0.18
(1,1154)	1:64:A:MET:HE1	1:68:A:LEU:H	15	0.18
(1,1154)	1:64:A:MET:HE2	1:68:A:LEU:H	15	0.18
(1,1154)	1:64:A:MET:HE3	1:68:A:LEU:H	15	0.18
(1,1001)	1:58:A:LEU:HD12	1:59:A:TRP:HD1	3	0.18
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	20	0.18
(1,889)	1:52:A:ASN:HD21	2:104:A:HEC:HAD1	17	0.18
(1,889)	1:52:A:ASN:HD22	2:104:A:HEC:HAD1	17	0.18
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	4	0.18
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	6	0.18
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	7	0.18
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	17	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	15	0.18
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	15	0.18
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	14	0.18
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	4	0.18
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	4	0.18
(1,611)	1:35:A:ILE:HG21	1:32:A:LEU:HB2	7	0.18
(1,611)	1:35:A:ILE:HG22	1:32:A:LEU:HB2	7	0.18
(1,611)	1:35:A:ILE:HG23	1:32:A:LEU:HB2	7	0.18
(1,550)	1:32:A:LEU:HB3	1:32:A:LEU:H	20	0.18
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	12	0.18
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG21	1	0.18
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG22	1	0.18
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG23	1	0.18
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG21	19	0.18
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG22	19	0.18
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG23	19	0.18
(1,1746)	2:104:A:HEC:HHB	1:71:A:HIS:HD2	14	0.17
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD1	9	0.17
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD2	9	0.17
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD3	9	0.17
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE1	2	0.17
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE2	2	0.17
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE1	16	0.17
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE2	16	0.17
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	3	0.17
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	3	0.17
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	3	0.17
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	3	0.17
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	3	0.17
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	3	0.17
(1,1537)	1:94:A:LEU:HB2	1:95:A:ILE:H	18	0.17
(1,1537)	1:94:A:LEU:HB2	1:95:A:ILE:H	19	0.17
(1,1451)	1:89:A:LYS:HB2	1:90:A:ASP:H	4	0.17
(1,1413)	1:85:A:LEU:HA	1:91:A:ARG:H	2	0.17
(1,1413)	1:85:A:LEU:HA	1:91:A:ARG:H	7	0.17
(1,1413)	1:85:A:LEU:HA	1:91:A:ARG:H	13	0.17
(1,1331)	1:78:A:THR:HA	1:76:A:PRO:HA	2	0.17
(1,1331)	1:78:A:THR:HA	1:76:A:PRO:HA	13	0.17
(1,1331)	1:78:A:THR:HA	1:76:A:PRO:HA	20	0.17
(1,1291)	1:72:A:ALA:HB1	2:104:A:HEC:HAA2	2	0.17
(1,1291)	1:72:A:ALA:HB2	2:104:A:HEC:HAA2	2	0.17
(1,1291)	1:72:A:ALA:HB3	2:104:A:HEC:HAA2	2	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1291)	1:72:A:ALA:HB1	2:104:A:HEC:HAA2	8	0.17
(1,1291)	1:72:A:ALA:HB2	2:104:A:HEC:HAA2	8	0.17
(1,1291)	1:72:A:ALA:HB3	2:104:A:HEC:HAA2	8	0.17
(1,1291)	1:72:A:ALA:HB1	2:104:A:HEC:HAA2	10	0.17
(1,1291)	1:72:A:ALA:HB2	2:104:A:HEC:HAA2	10	0.17
(1,1291)	1:72:A:ALA:HB3	2:104:A:HEC:HAA2	10	0.17
(1,1288)	1:72:A:ALA:HB1	1:73:A:LYS:H	11	0.17
(1,1288)	1:72:A:ALA:HB2	1:73:A:LYS:H	11	0.17
(1,1288)	1:72:A:ALA:HB3	1:73:A:LYS:H	11	0.17
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	8	0.17
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	8	0.17
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	8	0.17
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	15	0.17
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	15	0.17
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	15	0.17
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	17	0.17
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	17	0.17
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	17	0.17
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	14	0.17
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	16	0.17
(1,889)	1:52:A:ASN:HD21	2:104:A:HEC:HAD1	15	0.17
(1,889)	1:52:A:ASN:HD22	2:104:A:HEC:HAD1	15	0.17
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	16	0.17
(1,776)	1:44:A:GLU:HG3	1:44:A:GLU:HA	11	0.17
(1,776)	1:44:A:GLU:HG3	1:44:A:GLU:HA	17	0.17
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	3	0.17
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	3	0.17
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	9	0.17
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	9	0.17
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	13	0.17
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	13	0.17
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	18	0.17
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	18	0.17
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	7	0.17
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	5	0.17
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	5	0.17
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	10	0.17
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	10	0.17
(1,630)	1:36:A:PHE:HD1	1:33:A:HIS:HA	16	0.17
(1,630)	1:36:A:PHE:HD2	1:33:A:HIS:HA	16	0.17
(1,564)	1:32:A:LEU:HB2	1:33:A:HIS:HB3	12	0.17
(1,564)	1:32:A:LEU:HB3	1:33:A:HIS:HB3	12	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,564)	1:32:A:LEU:HB2	1:33:A:HIS:HB3	15	0.17
(1,564)	1:32:A:LEU:HB3	1:33:A:HIS:HB3	15	0.17
(1,550)	1:32:A:LEU:HB3	1:32:A:LEU:H	16	0.17
(1,522)	1:30:A:PRO:HA	1:31:A:ASN:HA	13	0.17
(1,496)	1:28:A:VAL:HB	1:29:A:GLY:H	12	0.17
(1,464)	1:26:A:HIS:HA	1:31:A:ASN:HB3	19	0.17
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	13	0.17
(1,417)	1:20:A:VAL:HA	1:33:A:HIS:H	11	0.17
(1,417)	1:20:A:VAL:HA	1:33:A:HIS:H	13	0.17
(1,417)	1:20:A:VAL:HA	1:33:A:HIS:H	20	0.17
(1,1746)	2:104:A:HEC:HHB	1:71:A:HIS:HD2	15	0.16
(1,1721)	2:104:A:HEC:HAC	1:18:A:HIS:HD2	7	0.16
(1,1721)	2:104:A:HEC:HAC	1:18:A:HIS:HD2	14	0.16
(1,1721)	2:104:A:HEC:HAC	1:18:A:HIS:HD2	17	0.16
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE1	5	0.16
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE2	5	0.16
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE1	15	0.16
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE2	15	0.16
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE1	20	0.16
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE2	20	0.16
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	8	0.16
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	8	0.16
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	8	0.16
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	8	0.16
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	8	0.16
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	8	0.16
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	9	0.16
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	9	0.16
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	9	0.16
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	9	0.16
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	9	0.16
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	9	0.16
(1,1537)	1:94:A:LEU:HB2	1:95:A:ILE:H	5	0.16
(1,1537)	1:94:A:LEU:HB2	1:95:A:ILE:H	14	0.16
(1,1451)	1:89:A:LYS:HB2	1:90:A:ASP:H	6	0.16
(1,1387)	1:85:A:LEU:HB3	1:85:A:LEU:H	2	0.16
(1,1387)	1:85:A:LEU:HB3	1:85:A:LEU:H	11	0.16
(1,1387)	1:85:A:LEU:HB3	1:85:A:LEU:H	13	0.16
(1,1387)	1:85:A:LEU:HB3	1:85:A:LEU:H	15	0.16
(1,1376)	1:82:A:PHE:HZ	2:104:A:HEC:HHC	7	0.16
(1,1331)	1:78:A:THR:HA	1:76:A:PRO:HA	5	0.16
(1,1291)	1:72:A:ALA:HB1	2:104:A:HEC:HAA2	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1291)	1:72:A:ALA:HB2	2:104:A:HEC:HAA2	5	0.16
(1,1291)	1:72:A:ALA:HB3	2:104:A:HEC:HAA2	5	0.16
(1,1291)	1:72:A:ALA:HB1	2:104:A:HEC:HAA2	9	0.16
(1,1291)	1:72:A:ALA:HB2	2:104:A:HEC:HAA2	9	0.16
(1,1291)	1:72:A:ALA:HB3	2:104:A:HEC:HAA2	9	0.16
(1,1288)	1:72:A:ALA:HB1	1:73:A:LYS:H	1	0.16
(1,1288)	1:72:A:ALA:HB2	1:73:A:LYS:H	1	0.16
(1,1288)	1:72:A:ALA:HB3	1:73:A:LYS:H	1	0.16
(1,1268)	1:70:A:ASN:HB2	1:71:A:HIS:HA	1	0.16
(1,1154)	1:64:A:MET:HE1	1:68:A:LEU:H	6	0.16
(1,1154)	1:64:A:MET:HE2	1:68:A:LEU:H	6	0.16
(1,1154)	1:64:A:MET:HE3	1:68:A:LEU:H	6	0.16
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	16	0.16
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	16	0.16
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	16	0.16
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	1	0.16
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	10	0.16
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	10	0.16
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	1	0.16
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	7	0.16
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	12	0.16
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	15	0.16
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	13	0.16
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	13	0.16
(1,781)	1:45:A:GLY:HA2	1:26:A:HIS:HD1	14	0.16
(1,781)	1:45:A:GLY:HA3	1:26:A:HIS:HD1	14	0.16
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	1	0.16
(1,699)	1:39:A:HIS:HB3	1:42:A:GLN:H	6	0.16
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	7	0.16
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	7	0.16
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	11	0.16
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	11	0.16
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	14	0.16
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	14	0.16
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	16	0.16
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	16	0.16
(1,613)	1:35:A:ILE:HG21	1:59:A:TRP:HB2	1	0.16
(1,613)	1:35:A:ILE:HG21	1:59:A:TRP:HB3	1	0.16
(1,613)	1:35:A:ILE:HG22	1:59:A:TRP:HB2	1	0.16
(1,613)	1:35:A:ILE:HG22	1:59:A:TRP:HB3	1	0.16
(1,613)	1:35:A:ILE:HG23	1:59:A:TRP:HB2	1	0.16
(1,613)	1:35:A:ILE:HG23	1:59:A:TRP:HB3	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,613)	1:35:A:ILE:HG21	1:59:A:TRP:HB2	20	0.16
(1,613)	1:35:A:ILE:HG21	1:59:A:TRP:HB3	20	0.16
(1,613)	1:35:A:ILE:HG22	1:59:A:TRP:HB2	20	0.16
(1,613)	1:35:A:ILE:HG22	1:59:A:TRP:HB3	20	0.16
(1,613)	1:35:A:ILE:HG23	1:59:A:TRP:HB2	20	0.16
(1,613)	1:35:A:ILE:HG23	1:59:A:TRP:HB3	20	0.16
(1,565)	1:32:A:LEU:HD11	1:42:A:GLN:H	19	0.16
(1,565)	1:32:A:LEU:HD12	1:42:A:GLN:H	19	0.16
(1,565)	1:32:A:LEU:HD13	1:42:A:GLN:H	19	0.16
(1,564)	1:32:A:LEU:HB2	1:33:A:HIS:HB3	13	0.16
(1,564)	1:32:A:LEU:HB3	1:33:A:HIS:HB3	13	0.16
(1,555)	1:32:A:LEU:HD21	1:32:A:LEU:H	14	0.16
(1,555)	1:32:A:LEU:HD22	1:32:A:LEU:H	14	0.16
(1,555)	1:32:A:LEU:HD23	1:32:A:LEU:H	14	0.16
(1,550)	1:32:A:LEU:HB3	1:32:A:LEU:H	5	0.16
(1,522)	1:30:A:PRO:HA	1:31:A:ASN:HA	6	0.16
(1,516)	1:29:A:GLY:HA2	1:31:A:ASN:HD21	11	0.16
(1,516)	1:29:A:GLY:HA3	1:31:A:ASN:HD21	11	0.16
(1,464)	1:26:A:HIS:HA	1:31:A:ASN:HB3	8	0.16
(1,369)	1:17:A:CYS:HA	1:19:A:THR:H	1	0.16
(1,369)	1:17:A:CYS:HA	1:19:A:THR:H	12	0.16
(1,369)	1:17:A:CYS:HA	1:19:A:THR:H	14	0.16
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	11	0.16
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	15	0.16
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	16	0.16
(1,1721)	2:104:A:HEC:HAC	1:18:A:HIS:HD2	2	0.15
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD1	3	0.15
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD2	3	0.15
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD3	3	0.15
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD1	10	0.15
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD2	10	0.15
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD3	10	0.15
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE1	1	0.15
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE2	1	0.15
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE1	6	0.15
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE2	6	0.15
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE1	13	0.15
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE2	13	0.15
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	11	0.15
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	11	0.15
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	11	0.15
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	11	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	11	0.15
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	11	0.15
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	18	0.15
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	18	0.15
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	18	0.15
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	18	0.15
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	18	0.15
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	18	0.15
(1,1537)	1:94:A:LEU:HB2	1:95:A:ILE:H	7	0.15
(1,1537)	1:94:A:LEU:HB2	1:95:A:ILE:H	15	0.15
(1,1528)	1:94:A:LEU:HD11	1:95:A:ILE:HG12	17	0.15
(1,1528)	1:94:A:LEU:HD12	1:95:A:ILE:HG12	17	0.15
(1,1528)	1:94:A:LEU:HD13	1:95:A:ILE:HG12	17	0.15
(1,1451)	1:89:A:LYS:HB2	1:90:A:ASP:H	17	0.15
(1,1387)	1:85:A:LEU:HB3	1:85:A:LEU:H	7	0.15
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD11	2	0.15
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD12	2	0.15
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD13	2	0.15
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD11	11	0.15
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD12	11	0.15
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD13	11	0.15
(1,1380)	1:82:A:PHE:HZ	1:85:A:LEU:HG	8	0.15
(1,1380)	1:82:A:PHE:HZ	1:85:A:LEU:HG	20	0.15
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	11	0.15
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	11	0.15
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	11	0.15
(1,1001)	1:58:A:LEU:HD12	1:59:A:TRP:HD1	5	0.15
(1,1001)	1:58:A:LEU:HD12	1:59:A:TRP:HD1	6	0.15
(1,1001)	1:58:A:LEU:HD13	1:59:A:TRP:HD1	20	0.15
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	2	0.15
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	3	0.15
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	7	0.15
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	12	0.15
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	16	0.15
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	13	0.15
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	13	0.15
(1,987)	1:58:A:LEU:HG	1:59:A:TRP:HE3	5	0.15
(1,987)	1:58:A:LEU:HG	1:59:A:TRP:HE3	9	0.15
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	6	0.15
(1,930)	1:55:A:LYS:HB3	1:55:A:LYS:H	10	0.15
(1,930)	1:55:A:LYS:HB3	1:55:A:LYS:H	20	0.15
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	4	0.15
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	6	0.15
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	6	0.15
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	8	0.15
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	8	0.15
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	14	0.15
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	14	0.15
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	19	0.15
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	19	0.15
(1,889)	1:52:A:ASN:HD21	2:104:A:HEC:HAD1	9	0.15
(1,889)	1:52:A:ASN:HD22	2:104:A:HEC:HAD1	9	0.15
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	4	0.15
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	14	0.15
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	14	0.15
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	17	0.15
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	17	0.15
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	17	0.15
(1,722)	1:40:A:SER:HB2	1:52:A:ASN:HD21	13	0.15
(1,722)	1:40:A:SER:HB2	1:52:A:ASN:HD22	13	0.15
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	2	0.15
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	2	0.15
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	8	0.15
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	8	0.15
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	13	0.15
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	13	0.15
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	15	0.15
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	15	0.15
(1,630)	1:36:A:PHE:HD1	1:33:A:HIS:HA	7	0.15
(1,630)	1:36:A:PHE:HD2	1:33:A:HIS:HA	7	0.15
(1,630)	1:36:A:PHE:HD1	1:33:A:HIS:HA	20	0.15
(1,630)	1:36:A:PHE:HD2	1:33:A:HIS:HA	20	0.15
(1,614)	1:35:A:ILE:HG23	1:59:A:TRP:HD1	12	0.15
(1,613)	1:35:A:ILE:HG21	1:59:A:TRP:HB2	19	0.15
(1,613)	1:35:A:ILE:HG21	1:59:A:TRP:HB3	19	0.15
(1,613)	1:35:A:ILE:HG22	1:59:A:TRP:HB2	19	0.15
(1,613)	1:35:A:ILE:HG22	1:59:A:TRP:HB3	19	0.15
(1,613)	1:35:A:ILE:HG23	1:59:A:TRP:HB2	19	0.15
(1,613)	1:35:A:ILE:HG23	1:59:A:TRP:HB3	19	0.15
(1,597)	1:35:A:ILE:HD11	1:32:A:LEU:HB2	1	0.15
(1,597)	1:35:A:ILE:HD12	1:32:A:LEU:HB2	1	0.15
(1,597)	1:35:A:ILE:HD13	1:32:A:LEU:HB2	1	0.15
(1,577)	1:34:A:GLY:H	1:35:A:ILE:HG12	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,565)	1:32:A:LEU:HD11	1:42:A:GLN:H	6	0.15
(1,565)	1:32:A:LEU:HD12	1:42:A:GLN:H	6	0.15
(1,565)	1:32:A:LEU:HD13	1:42:A:GLN:H	6	0.15
(1,564)	1:32:A:LEU:HB2	1:33:A:HIS:HB3	20	0.15
(1,564)	1:32:A:LEU:HB3	1:33:A:HIS:HB3	20	0.15
(1,562)	1:32:A:LEU:HD11	2:104:A:HEC:HMB1	2	0.15
(1,562)	1:32:A:LEU:HD11	2:104:A:HEC:HMB2	2	0.15
(1,562)	1:32:A:LEU:HD11	2:104:A:HEC:HMB3	2	0.15
(1,562)	1:32:A:LEU:HD12	2:104:A:HEC:HMB1	2	0.15
(1,562)	1:32:A:LEU:HD12	2:104:A:HEC:HMB2	2	0.15
(1,562)	1:32:A:LEU:HD12	2:104:A:HEC:HMB3	2	0.15
(1,562)	1:32:A:LEU:HD13	2:104:A:HEC:HMB1	2	0.15
(1,562)	1:32:A:LEU:HD13	2:104:A:HEC:HMB2	2	0.15
(1,562)	1:32:A:LEU:HD13	2:104:A:HEC:HMB3	2	0.15
(1,562)	1:32:A:LEU:HD21	2:104:A:HEC:HMB1	2	0.15
(1,562)	1:32:A:LEU:HD21	2:104:A:HEC:HMB2	2	0.15
(1,562)	1:32:A:LEU:HD21	2:104:A:HEC:HMB3	2	0.15
(1,562)	1:32:A:LEU:HD22	2:104:A:HEC:HMB1	2	0.15
(1,562)	1:32:A:LEU:HD22	2:104:A:HEC:HMB2	2	0.15
(1,562)	1:32:A:LEU:HD22	2:104:A:HEC:HMB3	2	0.15
(1,562)	1:32:A:LEU:HD23	2:104:A:HEC:HMB1	2	0.15
(1,562)	1:32:A:LEU:HD23	2:104:A:HEC:HMB2	2	0.15
(1,562)	1:32:A:LEU:HD23	2:104:A:HEC:HMB3	2	0.15
(1,536)	1:30:A:PRO:HB2	1:46:A:TYR:HA	1	0.15
(1,536)	1:30:A:PRO:HB3	1:46:A:TYR:HA	1	0.15
(1,536)	1:30:A:PRO:HB2	1:46:A:TYR:HA	17	0.15
(1,536)	1:30:A:PRO:HB3	1:46:A:TYR:HA	17	0.15
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	16	0.15
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	18	0.15
(1,449)	1:24:A:GLY:HA2	1:31:A:ASN:HD21	11	0.15
(1,449)	1:24:A:GLY:HA3	1:31:A:ASN:HD21	11	0.15
(1,417)	1:20:A:VAL:HA	1:33:A:HIS:H	10	0.15
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG21	3	0.15
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG22	3	0.15
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG23	3	0.15
(1,377)	1:18:A:HIS:HD1	1:31:A:ASN:HD21	2	0.15
(1,377)	1:18:A:HIS:HD1	1:31:A:ASN:HD22	2	0.15
(1,369)	1:17:A:CYS:HA	1:19:A:THR:H	2	0.15
(1,369)	1:17:A:CYS:HA	1:19:A:THR:H	18	0.15
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	1	0.15
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	2	0.15
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	8	0.15
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	18	0.15
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	19	0.15
(1,1746)	2:104:A:HEC:HBB	1:71:A:HIS:HD2	3	0.14
(1,1721)	2:104:A:HEC:HAC	1:18:A:HIS:HD2	10	0.14
(1,1721)	2:104:A:HEC:HAC	1:18:A:HIS:HD2	13	0.14
(1,1721)	2:104:A:HEC:HAC	1:18:A:HIS:HD2	20	0.14
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD1	18	0.14
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD2	18	0.14
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD3	18	0.14
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE1	4	0.14
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE2	4	0.14
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD21	9	0.14
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD22	9	0.14
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD23	9	0.14
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	6	0.14
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	6	0.14
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	6	0.14
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	6	0.14
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	6	0.14
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	6	0.14
(1,1537)	1:94:A:LEU:HB2	1:95:A:ILE:H	13	0.14
(1,1528)	1:94:A:LEU:HD11	1:95:A:ILE:HG12	10	0.14
(1,1528)	1:94:A:LEU:HD12	1:95:A:ILE:HG12	10	0.14
(1,1528)	1:94:A:LEU:HD13	1:95:A:ILE:HG12	10	0.14
(1,1528)	1:94:A:LEU:HD11	1:95:A:ILE:HG12	12	0.14
(1,1528)	1:94:A:LEU:HD12	1:95:A:ILE:HG12	12	0.14
(1,1528)	1:94:A:LEU:HD13	1:95:A:ILE:HG12	12	0.14
(1,1528)	1:94:A:LEU:HD11	1:95:A:ILE:HG12	16	0.14
(1,1528)	1:94:A:LEU:HD12	1:95:A:ILE:HG12	16	0.14
(1,1528)	1:94:A:LEU:HD13	1:95:A:ILE:HG12	16	0.14
(1,1528)	1:94:A:LEU:HD11	1:95:A:ILE:HG12	18	0.14
(1,1528)	1:94:A:LEU:HD12	1:95:A:ILE:HG12	18	0.14
(1,1528)	1:94:A:LEU:HD13	1:95:A:ILE:HG12	18	0.14
(1,1451)	1:89:A:LYS:HB2	1:90:A:ASP:H	8	0.14
(1,1451)	1:89:A:LYS:HB2	1:90:A:ASP:H	14	0.14
(1,1413)	1:85:A:LEU:HA	1:91:A:ARG:H	9	0.14
(1,1413)	1:85:A:LEU:HA	1:91:A:ARG:H	16	0.14
(1,1410)	1:85:A:LEU:HD21	1:90:A:ASP:HB2	5	0.14
(1,1410)	1:85:A:LEU:HD22	1:90:A:ASP:HB2	5	0.14
(1,1410)	1:85:A:LEU:HD23	1:90:A:ASP:HB2	5	0.14
(1,1393)	1:85:A:LEU:HD11	1:85:A:LEU:H	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1393)	1:85:A:LEU:HD12	1:85:A:LEU:H	10	0.14
(1,1393)	1:85:A:LEU:HD13	1:85:A:LEU:H	10	0.14
(1,1393)	1:85:A:LEU:HD11	1:85:A:LEU:H	12	0.14
(1,1393)	1:85:A:LEU:HD12	1:85:A:LEU:H	12	0.14
(1,1393)	1:85:A:LEU:HD13	1:85:A:LEU:H	12	0.14
(1,1387)	1:85:A:LEU:HB3	1:85:A:LEU:H	10	0.14
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD21	5	0.14
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD22	5	0.14
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD23	5	0.14
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD21	17	0.14
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD22	17	0.14
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD23	17	0.14
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD11	13	0.14
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD12	13	0.14
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD13	13	0.14
(1,1376)	1:82:A:PHE:HZ	2:104:A:HEC:HHC	14	0.14
(1,1331)	1:78:A:THR:HA	1:76:A:PRO:HA	8	0.14
(1,1331)	1:78:A:THR:HA	1:76:A:PRO:HA	11	0.14
(1,1331)	1:78:A:THR:HA	1:76:A:PRO:HA	17	0.14
(1,1330)	1:78:A:THR:HA	2:104:A:HEC:HAD1	3	0.14
(1,1330)	1:78:A:THR:HA	2:104:A:HEC:HAD2	3	0.14
(1,1288)	1:72:A:ALA:HB1	1:73:A:LYS:H	2	0.14
(1,1288)	1:72:A:ALA:HB2	1:73:A:LYS:H	2	0.14
(1,1288)	1:72:A:ALA:HB3	1:73:A:LYS:H	2	0.14
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	5	0.14
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	5	0.14
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	5	0.14
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	14	0.14
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	14	0.14
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	14	0.14
(1,1001)	1:58:A:LEU:HD12	1:59:A:TRP:HD1	18	0.14
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	6	0.14
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	8	0.14
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	8	0.14
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	3	0.14
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	5	0.14
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	14	0.14
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	17	0.14
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	20	0.14
(1,930)	1:55:A:LYS:HB3	1:55:A:LYS:H	1	0.14
(1,930)	1:55:A:LYS:HB3	1:55:A:LYS:H	6	0.14
(1,930)	1:55:A:LYS:HB3	1:55:A:LYS:H	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,930)	1:55:A:LYS:HB3	1:55:A:LYS:H	17	0.14
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	7	0.14
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	7	0.14
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	17	0.14
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	17	0.14
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	18	0.14
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	18	0.14
(1,890)	1:52:A:ASN:HD21	2:104:A:HEC:HAD2	4	0.14
(1,890)	1:52:A:ASN:HD22	2:104:A:HEC:HAD2	4	0.14
(1,800)	1:46:A:TYR:HD2	1:48:A:TYR:H	2	0.14
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	5	0.14
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	10	0.14
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	5	0.14
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	12	0.14
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	14	0.14
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	2	0.14
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	2	0.14
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	8	0.14
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	8	0.14
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	12	0.14
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	12	0.14
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	2	0.14
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	4	0.14
(1,735)	1:40:A:SER:HB2	1:56:A:ASN:HB2	9	0.14
(1,699)	1:39:A:HIS:HB3	1:42:A:GLN:H	2	0.14
(1,699)	1:39:A:HIS:HB3	1:42:A:GLN:H	16	0.14
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	3	0.14
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	3	0.14
(1,630)	1:36:A:PHE:HD1	1:33:A:HIS:HA	13	0.14
(1,630)	1:36:A:PHE:HD2	1:33:A:HIS:HA	13	0.14
(1,585)	1:35:A:ILE:HD11	1:35:A:ILE:H	8	0.14
(1,585)	1:35:A:ILE:HD12	1:35:A:ILE:H	8	0.14
(1,585)	1:35:A:ILE:HD13	1:35:A:ILE:H	8	0.14
(1,565)	1:32:A:LEU:HD11	1:42:A:GLN:H	7	0.14
(1,565)	1:32:A:LEU:HD12	1:42:A:GLN:H	7	0.14
(1,565)	1:32:A:LEU:HD13	1:42:A:GLN:H	7	0.14
(1,565)	1:32:A:LEU:HD11	1:42:A:GLN:H	16	0.14
(1,565)	1:32:A:LEU:HD12	1:42:A:GLN:H	16	0.14
(1,565)	1:32:A:LEU:HD13	1:42:A:GLN:H	16	0.14
(1,562)	1:32:A:LEU:HD11	2:104:A:HEC:HMB1	12	0.14
(1,562)	1:32:A:LEU:HD11	2:104:A:HEC:HMB2	12	0.14
(1,562)	1:32:A:LEU:HD11	2:104:A:HEC:HMB3	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,562)	1:32:A:LEU:HD12	2:104:A:HEC:HMB1	12	0.14
(1,562)	1:32:A:LEU:HD12	2:104:A:HEC:HMB2	12	0.14
(1,562)	1:32:A:LEU:HD12	2:104:A:HEC:HMB3	12	0.14
(1,562)	1:32:A:LEU:HD13	2:104:A:HEC:HMB1	12	0.14
(1,562)	1:32:A:LEU:HD13	2:104:A:HEC:HMB2	12	0.14
(1,562)	1:32:A:LEU:HD13	2:104:A:HEC:HMB3	12	0.14
(1,562)	1:32:A:LEU:HD21	2:104:A:HEC:HMB1	12	0.14
(1,562)	1:32:A:LEU:HD21	2:104:A:HEC:HMB2	12	0.14
(1,562)	1:32:A:LEU:HD21	2:104:A:HEC:HMB3	12	0.14
(1,562)	1:32:A:LEU:HD22	2:104:A:HEC:HMB1	12	0.14
(1,562)	1:32:A:LEU:HD22	2:104:A:HEC:HMB2	12	0.14
(1,562)	1:32:A:LEU:HD22	2:104:A:HEC:HMB3	12	0.14
(1,562)	1:32:A:LEU:HD23	2:104:A:HEC:HMB1	12	0.14
(1,562)	1:32:A:LEU:HD23	2:104:A:HEC:HMB2	12	0.14
(1,562)	1:32:A:LEU:HD23	2:104:A:HEC:HMB3	12	0.14
(1,562)	1:32:A:LEU:HD11	2:104:A:HEC:HMB1	13	0.14
(1,562)	1:32:A:LEU:HD11	2:104:A:HEC:HMB2	13	0.14
(1,562)	1:32:A:LEU:HD11	2:104:A:HEC:HMB3	13	0.14
(1,562)	1:32:A:LEU:HD12	2:104:A:HEC:HMB1	13	0.14
(1,562)	1:32:A:LEU:HD12	2:104:A:HEC:HMB2	13	0.14
(1,562)	1:32:A:LEU:HD12	2:104:A:HEC:HMB3	13	0.14
(1,562)	1:32:A:LEU:HD13	2:104:A:HEC:HMB1	13	0.14
(1,562)	1:32:A:LEU:HD13	2:104:A:HEC:HMB2	13	0.14
(1,562)	1:32:A:LEU:HD13	2:104:A:HEC:HMB3	13	0.14
(1,562)	1:32:A:LEU:HD21	2:104:A:HEC:HMB1	13	0.14
(1,562)	1:32:A:LEU:HD21	2:104:A:HEC:HMB2	13	0.14
(1,562)	1:32:A:LEU:HD21	2:104:A:HEC:HMB3	13	0.14
(1,562)	1:32:A:LEU:HD22	2:104:A:HEC:HMB1	13	0.14
(1,562)	1:32:A:LEU:HD22	2:104:A:HEC:HMB2	13	0.14
(1,562)	1:32:A:LEU:HD22	2:104:A:HEC:HMB3	13	0.14
(1,562)	1:32:A:LEU:HD23	2:104:A:HEC:HMB1	13	0.14
(1,562)	1:32:A:LEU:HD23	2:104:A:HEC:HMB2	13	0.14
(1,562)	1:32:A:LEU:HD23	2:104:A:HEC:HMB3	13	0.14
(1,550)	1:32:A:LEU:HB3	1:32:A:LEU:H	13	0.14
(1,534)	1:30:A:PRO:HB2	1:46:A:TYR:HE1	6	0.14
(1,534)	1:30:A:PRO:HB2	1:46:A:TYR:HE2	6	0.14
(1,530)	1:30:A:PRO:HB2	1:46:A:TYR:HE1	6	0.14
(1,530)	1:30:A:PRO:HB2	1:46:A:TYR:HE2	6	0.14
(1,498)	1:28:A:VAL:HG21	1:29:A:GLY:H	1	0.14
(1,498)	1:28:A:VAL:HG22	1:29:A:GLY:H	1	0.14
(1,498)	1:28:A:VAL:HG23	1:29:A:GLY:H	1	0.14
(1,464)	1:26:A:HIS:HA	1:31:A:ASN:HB3	1	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,369)	1:17:A:CYS:HA	1:19:A:THR:H	8	0.14
(1,369)	1:17:A:CYS:HA	1:19:A:THR:H	11	0.14
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	3	0.14
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	6	0.14
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	9	0.14
(1,272)	1:11:A:LYS:HA	1:14:A:CYS:H	14	0.14
(1,257)	1:10:A:PHE:HZ	1:20:A:VAL:HB	14	0.14
(1,169)	1:9:A:LEU:HD11	1:9:A:LEU:H	3	0.14
(1,169)	1:9:A:LEU:HD12	1:9:A:LEU:H	3	0.14
(1,169)	1:9:A:LEU:HD13	1:9:A:LEU:H	3	0.14
(1,169)	1:9:A:LEU:HD21	1:9:A:LEU:H	3	0.14
(1,169)	1:9:A:LEU:HD22	1:9:A:LEU:H	3	0.14
(1,169)	1:9:A:LEU:HD23	1:9:A:LEU:H	3	0.14
(1,89)	1:4:A:LYS:HE3	1:4:A:LYS:H	7	0.14
(1,1746)	2:104:A:HEC:HBB	1:71:A:HIS:HD2	5	0.13
(1,1746)	2:104:A:HEC:HBB	1:71:A:HIS:HD2	8	0.13
(1,1721)	2:104:A:HEC:HAC	1:18:A:HIS:HD2	5	0.13
(1,1721)	2:104:A:HEC:HAC	1:18:A:HIS:HD2	8	0.13
(1,1721)	2:104:A:HEC:HAC	1:18:A:HIS:HD2	11	0.13
(1,1721)	2:104:A:HEC:HAC	1:18:A:HIS:HD2	15	0.13
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE1	7	0.13
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE2	7	0.13
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE1	12	0.13
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE2	12	0.13
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE1	18	0.13
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE2	18	0.13
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD21	3	0.13
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD22	3	0.13
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD23	3	0.13
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD21	4	0.13
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD22	4	0.13
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD23	4	0.13
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	7	0.13
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	7	0.13
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	7	0.13
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	7	0.13
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	7	0.13
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	7	0.13
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	14	0.13
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	14	0.13
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	14	0.13
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	14	0.13
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	14	0.13
(1,1528)	1:94:A:LEU:HD11	1:95:A:ILE:HG12	2	0.13
(1,1528)	1:94:A:LEU:HD12	1:95:A:ILE:HG12	2	0.13
(1,1528)	1:94:A:LEU:HD13	1:95:A:ILE:HG12	2	0.13
(1,1528)	1:94:A:LEU:HD11	1:95:A:ILE:HG12	3	0.13
(1,1528)	1:94:A:LEU:HD12	1:95:A:ILE:HG12	3	0.13
(1,1528)	1:94:A:LEU:HD13	1:95:A:ILE:HG12	3	0.13
(1,1451)	1:89:A:LYS:HB2	1:90:A:ASP:H	7	0.13
(1,1451)	1:89:A:LYS:HB2	1:90:A:ASP:H	13	0.13
(1,1413)	1:85:A:LEU:HA	1:91:A:ARG:H	8	0.13
(1,1409)	1:85:A:LEU:HD11	1:90:A:ASP:HB2	13	0.13
(1,1409)	1:85:A:LEU:HD12	1:90:A:ASP:HB2	13	0.13
(1,1409)	1:85:A:LEU:HD13	1:90:A:ASP:HB2	13	0.13
(1,1393)	1:85:A:LEU:HD11	1:85:A:LEU:H	8	0.13
(1,1393)	1:85:A:LEU:HD12	1:85:A:LEU:H	8	0.13
(1,1393)	1:85:A:LEU:HD13	1:85:A:LEU:H	8	0.13
(1,1393)	1:85:A:LEU:HD11	1:85:A:LEU:H	14	0.13
(1,1393)	1:85:A:LEU:HD12	1:85:A:LEU:H	14	0.13
(1,1393)	1:85:A:LEU:HD13	1:85:A:LEU:H	14	0.13
(1,1387)	1:85:A:LEU:HB3	1:85:A:LEU:H	3	0.13
(1,1387)	1:85:A:LEU:HB3	1:85:A:LEU:H	6	0.13
(1,1387)	1:85:A:LEU:HB3	1:85:A:LEU:H	19	0.13
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD21	8	0.13
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD22	8	0.13
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD23	8	0.13
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD21	18	0.13
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD22	18	0.13
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD23	18	0.13
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD11	3	0.13
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD12	3	0.13
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD13	3	0.13
(1,1288)	1:72:A:ALA:HB1	1:73:A:LYS:H	14	0.13
(1,1288)	1:72:A:ALA:HB2	1:73:A:LYS:H	14	0.13
(1,1288)	1:72:A:ALA:HB3	1:73:A:LYS:H	14	0.13
(1,1288)	1:72:A:ALA:HB1	1:73:A:LYS:H	18	0.13
(1,1288)	1:72:A:ALA:HB2	1:73:A:LYS:H	18	0.13
(1,1288)	1:72:A:ALA:HB3	1:73:A:LYS:H	18	0.13
(1,1268)	1:70:A:ASN:HB2	1:71:A:HIS:HA	2	0.13
(1,1233)	1:68:A:LEU:HG	1:69:A:THR:H	19	0.13
(1,1154)	1:64:A:MET:HE1	1:68:A:LEU:H	2	0.13
(1,1154)	1:64:A:MET:HE2	1:68:A:LEU:H	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1154)	1:64:A:MET:HE3	1:68:A:LEU:H	2	0.13
(1,1154)	1:64:A:MET:HE1	1:68:A:LEU:H	9	0.13
(1,1154)	1:64:A:MET:HE2	1:68:A:LEU:H	9	0.13
(1,1154)	1:64:A:MET:HE3	1:68:A:LEU:H	9	0.13
(1,1154)	1:64:A:MET:HE1	1:68:A:LEU:H	16	0.13
(1,1154)	1:64:A:MET:HE2	1:68:A:LEU:H	16	0.13
(1,1154)	1:64:A:MET:HE3	1:68:A:LEU:H	16	0.13
(1,1154)	1:64:A:MET:HE1	1:68:A:LEU:H	20	0.13
(1,1154)	1:64:A:MET:HE2	1:68:A:LEU:H	20	0.13
(1,1154)	1:64:A:MET:HE3	1:68:A:LEU:H	20	0.13
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	2	0.13
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	2	0.13
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	2	0.13
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	4	0.13
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	4	0.13
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	4	0.13
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	13	0.13
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	13	0.13
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	13	0.13
(1,1020)	1:59:A:TRP:HD1	1:38:A:ARG:H	13	0.13
(1,1001)	1:58:A:LEU:HD12	1:59:A:TRP:HD1	2	0.13
(1,1001)	1:58:A:LEU:HD11	1:59:A:TRP:HD1	7	0.13
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	4	0.13
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	8	0.13
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	18	0.13
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	5	0.13
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	5	0.13
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	7	0.13
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	7	0.13
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	11	0.13
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	11	0.13
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	12	0.13
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	12	0.13
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	16	0.13
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	16	0.13
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	17	0.13
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	17	0.13
(1,987)	1:58:A:LEU:HG	1:59:A:TRP:HE3	6	0.13
(1,987)	1:58:A:LEU:HG	1:59:A:TRP:HE3	10	0.13
(1,987)	1:58:A:LEU:HG	1:59:A:TRP:HE3	13	0.13
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	2	0.13
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	18	0.13
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	1	0.13
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	5	0.13
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	10	0.13
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	11	0.13
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	15	0.13
(1,930)	1:55:A:LYS:HB3	1:55:A:LYS:H	3	0.13
(1,930)	1:55:A:LYS:HB3	1:55:A:LYS:H	14	0.13
(1,930)	1:55:A:LYS:HB3	1:55:A:LYS:H	16	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	1	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	2	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	3	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	4	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	5	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	6	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	7	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	8	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	9	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	10	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	11	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	12	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	13	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	14	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	16	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	18	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	19	0.13
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	20	0.13
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	10	0.13
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	10	0.13
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	16	0.13
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	16	0.13
(1,890)	1:52:A:ASN:HD21	2:104:A:HEC:HAD2	19	0.13
(1,890)	1:52:A:ASN:HD22	2:104:A:HEC:HAD2	19	0.13
(1,889)	1:52:A:ASN:HD21	2:104:A:HEC:HAD1	5	0.13
(1,889)	1:52:A:ASN:HD22	2:104:A:HEC:HAD1	5	0.13
(1,889)	1:52:A:ASN:HD21	2:104:A:HEC:HAD1	11	0.13
(1,889)	1:52:A:ASN:HD22	2:104:A:HEC:HAD1	11	0.13
(1,879)	1:52:A:ASN:HA	1:78:A:THR:HB	20	0.13
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	11	0.13
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	18	0.13
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	7	0.13
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	10	0.13
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	10	0.13
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	11	0.13
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	11	0.13
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	8	0.13
(1,735)	1:40:A:SER:HB2	1:56:A:ASN:HB2	2	0.13
(1,732)	1:40:A:SER:HB3	1:56:A:ASN:HB3	12	0.13
(1,722)	1:40:A:SER:HB2	1:52:A:ASN:HD21	9	0.13
(1,722)	1:40:A:SER:HB2	1:52:A:ASN:HD22	9	0.13
(1,722)	1:40:A:SER:HB2	1:52:A:ASN:HD21	18	0.13
(1,722)	1:40:A:SER:HB2	1:52:A:ASN:HD22	18	0.13
(1,722)	1:40:A:SER:HB2	1:52:A:ASN:HD21	19	0.13
(1,722)	1:40:A:SER:HB2	1:52:A:ASN:HD22	19	0.13
(1,699)	1:39:A:HIS:HB3	1:42:A:GLN:H	19	0.13
(1,684)	1:38:A:ARG:HG2	1:42:A:GLN:H	16	0.13
(1,684)	1:38:A:ARG:HG3	1:42:A:GLN:H	16	0.13
(1,682)	1:38:A:ARG:HD2	1:39:A:HIS:HE1	12	0.13
(1,682)	1:38:A:ARG:HD3	1:39:A:HIS:HE1	12	0.13
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	18	0.13
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	18	0.13
(1,613)	1:35:A:ILE:HG21	1:59:A:TRP:HB2	12	0.13
(1,613)	1:35:A:ILE:HG21	1:59:A:TRP:HB3	12	0.13
(1,613)	1:35:A:ILE:HG22	1:59:A:TRP:HB2	12	0.13
(1,613)	1:35:A:ILE:HG22	1:59:A:TRP:HB3	12	0.13
(1,613)	1:35:A:ILE:HG23	1:59:A:TRP:HB2	12	0.13
(1,613)	1:35:A:ILE:HG23	1:59:A:TRP:HB3	12	0.13
(1,613)	1:35:A:ILE:HG21	1:59:A:TRP:HB2	18	0.13
(1,613)	1:35:A:ILE:HG21	1:59:A:TRP:HB3	18	0.13
(1,613)	1:35:A:ILE:HG22	1:59:A:TRP:HB2	18	0.13
(1,613)	1:35:A:ILE:HG22	1:59:A:TRP:HB3	18	0.13
(1,613)	1:35:A:ILE:HG23	1:59:A:TRP:HB2	18	0.13
(1,613)	1:35:A:ILE:HG23	1:59:A:TRP:HB3	18	0.13
(1,589)	1:35:A:ILE:HA	1:35:A:ILE:HB	5	0.13
(1,550)	1:32:A:LEU:HB3	1:32:A:LEU:H	14	0.13
(1,522)	1:30:A:PRO:HA	1:31:A:ASN:HA	14	0.13
(1,516)	1:29:A:GLY:HA2	1:31:A:ASN:HD21	8	0.13
(1,516)	1:29:A:GLY:HA3	1:31:A:ASN:HD21	8	0.13
(1,498)	1:28:A:VAL:HG21	1:29:A:GLY:H	7	0.13
(1,498)	1:28:A:VAL:HG22	1:29:A:GLY:H	7	0.13
(1,498)	1:28:A:VAL:HG23	1:29:A:GLY:H	7	0.13
(1,478)	1:27:A:LYS:HB3	1:27:A:LYS:H	11	0.13
(1,464)	1:26:A:HIS:HA	1:31:A:ASN:HB3	17	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,463)	1:26:A:HIS:HA	1:31:A:ASN:HA	6	0.13
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	4	0.13
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD11	9	0.13
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD12	9	0.13
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD13	9	0.13
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD21	9	0.13
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD22	9	0.13
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD23	9	0.13
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD11	9	0.13
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD12	9	0.13
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD13	9	0.13
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD21	9	0.13
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD22	9	0.13
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD23	9	0.13
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD11	9	0.13
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD12	9	0.13
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD13	9	0.13
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD21	9	0.13
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD22	9	0.13
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD23	9	0.13
(1,417)	1:20:A:VAL:HA	1:33:A:HIS:H	16	0.13
(1,369)	1:17:A:CYS:HA	1:19:A:THR:H	10	0.13
(1,369)	1:17:A:CYS:HA	1:19:A:THR:H	20	0.13
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	10	0.13
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	17	0.13
(1,273)	1:11:A:LYS:HA	1:14:A:CYS:HB2	16	0.13
(1,273)	1:11:A:LYS:HA	1:14:A:CYS:HB3	16	0.13
(1,272)	1:11:A:LYS:HA	1:14:A:CYS:H	5	0.13
(1,272)	1:11:A:LYS:HA	1:14:A:CYS:H	7	0.13
(1,272)	1:11:A:LYS:HA	1:14:A:CYS:H	17	0.13
(1,169)	1:9:A:LEU:HD11	1:9:A:LEU:H	4	0.13
(1,169)	1:9:A:LEU:HD12	1:9:A:LEU:H	4	0.13
(1,169)	1:9:A:LEU:HD13	1:9:A:LEU:H	4	0.13
(1,169)	1:9:A:LEU:HD21	1:9:A:LEU:H	4	0.13
(1,169)	1:9:A:LEU:HD22	1:9:A:LEU:H	4	0.13
(1,169)	1:9:A:LEU:HD23	1:9:A:LEU:H	4	0.13
(1,169)	1:9:A:LEU:HD11	1:9:A:LEU:H	13	0.13
(1,169)	1:9:A:LEU:HD12	1:9:A:LEU:H	13	0.13
(1,169)	1:9:A:LEU:HD13	1:9:A:LEU:H	13	0.13
(1,169)	1:9:A:LEU:HD21	1:9:A:LEU:H	13	0.13
(1,169)	1:9:A:LEU:HD22	1:9:A:LEU:H	13	0.13
(1,169)	1:9:A:LEU:HD23	1:9:A:LEU:H	13	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,169)	1:9:A:LEU:HD11	1:9:A:LEU:H	14	0.13
(1,169)	1:9:A:LEU:HD12	1:9:A:LEU:H	14	0.13
(1,169)	1:9:A:LEU:HD13	1:9:A:LEU:H	14	0.13
(1,169)	1:9:A:LEU:HD21	1:9:A:LEU:H	14	0.13
(1,169)	1:9:A:LEU:HD22	1:9:A:LEU:H	14	0.13
(1,169)	1:9:A:LEU:HD23	1:9:A:LEU:H	14	0.13
(1,158)	1:8:A:THR:HB	1:11:A:LYS:HG2	16	0.13
(1,158)	1:8:A:THR:HB	1:11:A:LYS:HG3	16	0.13
(1,1724)	2:104:A:HEC:HAD1	1:46:A:TYR:HD1	16	0.12
(1,1724)	2:104:A:HEC:HAD1	1:46:A:TYR:HD2	16	0.12
(1,1724)	2:104:A:HEC:HAD2	1:46:A:TYR:HD1	16	0.12
(1,1724)	2:104:A:HEC:HAD2	1:46:A:TYR:HD2	16	0.12
(1,1721)	2:104:A:HEC:HAC	1:18:A:HIS:HD2	3	0.12
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD1	12	0.12
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD2	12	0.12
(1,1696)	2:104:A:HEC:HBD1	2:104:A:HEC:HMD3	12	0.12
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE1	9	0.12
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE2	9	0.12
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE1	19	0.12
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE2	19	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	1	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	2	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	3	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	4	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	5	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	6	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	7	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	8	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	9	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	10	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	11	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	12	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	13	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	14	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	15	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	16	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	17	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	18	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	19	0.12
(1,1640)	1:99:A:LYS:HA	1:99:A:LYS:HB3	20	0.12
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD21	5	0.12
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD22	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD23	5	0.12
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD21	10	0.12
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD22	10	0.12
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD23	10	0.12
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD21	13	0.12
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD22	13	0.12
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD23	13	0.12
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD21	14	0.12
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD22	14	0.12
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD23	14	0.12
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD21	19	0.12
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD22	19	0.12
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD23	19	0.12
(1,1578)	1:95:A:ILE:HG21	1:94:A:LEU:H	1	0.12
(1,1578)	1:95:A:ILE:HG22	1:94:A:LEU:H	1	0.12
(1,1578)	1:95:A:ILE:HG23	1:94:A:LEU:H	1	0.12
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	1	0.12
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	1	0.12
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	1	0.12
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	1	0.12
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	1	0.12
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	1	0.12
(1,1539)	1:94:A:LEU:HG	1:98:A:LEU:HG	2	0.12
(1,1539)	1:94:A:LEU:HG	1:98:A:LEU:HG	12	0.12
(1,1528)	1:94:A:LEU:HD11	1:95:A:ILE:HG12	20	0.12
(1,1528)	1:94:A:LEU:HD12	1:95:A:ILE:HG12	20	0.12
(1,1528)	1:94:A:LEU:HD13	1:95:A:ILE:HG12	20	0.12
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	5	0.12
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	13	0.12
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	16	0.12
(1,1451)	1:89:A:LYS:HB2	1:90:A:ASP:H	18	0.12
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	1	0.12
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	2	0.12
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	3	0.12
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	5	0.12
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	6	0.12
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	7	0.12
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	8	0.12
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	9	0.12
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	11	0.12
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	12	0.12
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	14	0.12
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	15	0.12
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	16	0.12
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	17	0.12
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	19	0.12
(1,1425)	1:88:A:GLU:HA	1:88:A:GLU:HB2	20	0.12
(1,1424)	1:88:A:GLU:HA	1:88:A:GLU:HB3	10	0.12
(1,1424)	1:88:A:GLU:HA	1:88:A:GLU:HB3	18	0.12
(1,1413)	1:85:A:LEU:HA	1:91:A:ARG:H	1	0.12
(1,1409)	1:85:A:LEU:HD11	1:90:A:ASP:HB2	10	0.12
(1,1409)	1:85:A:LEU:HD12	1:90:A:ASP:HB2	10	0.12
(1,1409)	1:85:A:LEU:HD13	1:90:A:ASP:HB2	10	0.12
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD21	3	0.12
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD22	3	0.12
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD23	3	0.12
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD11	7	0.12
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD12	7	0.12
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD13	7	0.12
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD11	10	0.12
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD12	10	0.12
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD13	10	0.12
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC1	11	0.12
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC2	11	0.12
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC3	11	0.12
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC1	12	0.12
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC2	12	0.12
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC3	12	0.12
(1,1331)	1:78:A:THR:HA	1:76:A:PRO:HA	6	0.12
(1,1331)	1:78:A:THR:HA	1:76:A:PRO:HA	7	0.12
(1,1291)	1:72:A:ALA:HB1	2:104:A:HEC:HAA2	11	0.12
(1,1291)	1:72:A:ALA:HB2	2:104:A:HEC:HAA2	11	0.12
(1,1291)	1:72:A:ALA:HB3	2:104:A:HEC:HAA2	11	0.12
(1,1291)	1:72:A:ALA:HB1	2:104:A:HEC:HAA2	13	0.12
(1,1291)	1:72:A:ALA:HB2	2:104:A:HEC:HAA2	13	0.12
(1,1291)	1:72:A:ALA:HB3	2:104:A:HEC:HAA2	13	0.12
(1,1291)	1:72:A:ALA:HB1	2:104:A:HEC:HAA2	20	0.12
(1,1291)	1:72:A:ALA:HB2	2:104:A:HEC:HAA2	20	0.12
(1,1291)	1:72:A:ALA:HB3	2:104:A:HEC:HAA2	20	0.12
(1,1289)	1:72:A:ALA:H	1:78:A:THR:HB	12	0.12
(1,1288)	1:72:A:ALA:HB1	1:73:A:LYS:H	10	0.12
(1,1288)	1:72:A:ALA:HB2	1:73:A:LYS:H	10	0.12
(1,1288)	1:72:A:ALA:HB3	1:73:A:LYS:H	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1288)	1:72:A:ALA:HB1	1:73:A:LYS:H	15	0.12
(1,1288)	1:72:A:ALA:HB2	1:73:A:LYS:H	15	0.12
(1,1288)	1:72:A:ALA:HB3	1:73:A:LYS:H	15	0.12
(1,1268)	1:70:A:ASN:HB2	1:71:A:HIS:HA	11	0.12
(1,1233)	1:68:A:LEU:HG	1:69:A:THR:H	1	0.12
(1,1154)	1:64:A:MET:HE1	1:68:A:LEU:H	14	0.12
(1,1154)	1:64:A:MET:HE2	1:68:A:LEU:H	14	0.12
(1,1154)	1:64:A:MET:HE3	1:68:A:LEU:H	14	0.12
(1,1154)	1:64:A:MET:HE1	1:68:A:LEU:H	18	0.12
(1,1154)	1:64:A:MET:HE2	1:68:A:LEU:H	18	0.12
(1,1154)	1:64:A:MET:HE3	1:68:A:LEU:H	18	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	1	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	1	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	1	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	3	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	3	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	3	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	6	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	6	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	6	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	7	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	7	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	7	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	9	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	9	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	9	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	19	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	19	0.12
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	19	0.12
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	13	0.12
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	1	0.12
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	1	0.12
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	3	0.12
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	3	0.12
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	4	0.12
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	4	0.12
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	9	0.12
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	9	0.12
(1,987)	1:58:A:LEU:HG	1:59:A:TRP:HE3	4	0.12
(1,987)	1:58:A:LEU:HG	1:59:A:TRP:HE3	7	0.12
(1,987)	1:58:A:LEU:HG	1:59:A:TRP:HE3	16	0.12
(1,987)	1:58:A:LEU:HG	1:59:A:TRP:HE3	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,987)	1:58:A:LEU:HG	1:59:A:TRP:HE3	19	0.12
(1,962)	1:57:A:VAL:HG11	1:75:A:ILE:HD11	12	0.12
(1,962)	1:57:A:VAL:HG11	1:75:A:ILE:HD12	12	0.12
(1,962)	1:57:A:VAL:HG11	1:75:A:ILE:HD13	12	0.12
(1,962)	1:57:A:VAL:HG12	1:75:A:ILE:HD11	12	0.12
(1,962)	1:57:A:VAL:HG12	1:75:A:ILE:HD12	12	0.12
(1,962)	1:57:A:VAL:HG12	1:75:A:ILE:HD13	12	0.12
(1,962)	1:57:A:VAL:HG13	1:75:A:ILE:HD11	12	0.12
(1,962)	1:57:A:VAL:HG13	1:75:A:ILE:HD12	12	0.12
(1,962)	1:57:A:VAL:HG13	1:75:A:ILE:HD13	12	0.12
(1,962)	1:57:A:VAL:HG21	1:75:A:ILE:HD11	12	0.12
(1,962)	1:57:A:VAL:HG21	1:75:A:ILE:HD12	12	0.12
(1,962)	1:57:A:VAL:HG21	1:75:A:ILE:HD13	12	0.12
(1,962)	1:57:A:VAL:HG22	1:75:A:ILE:HD11	12	0.12
(1,962)	1:57:A:VAL:HG22	1:75:A:ILE:HD12	12	0.12
(1,962)	1:57:A:VAL:HG22	1:75:A:ILE:HD13	12	0.12
(1,962)	1:57:A:VAL:HG23	1:75:A:ILE:HD11	12	0.12
(1,962)	1:57:A:VAL:HG23	1:75:A:ILE:HD12	12	0.12
(1,962)	1:57:A:VAL:HG23	1:75:A:ILE:HD13	12	0.12
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	4	0.12
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	10	0.12
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	2	0.12
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	3	0.12
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	4	0.12
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	6	0.12
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	7	0.12
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	8	0.12
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	9	0.12
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	12	0.12
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	13	0.12
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	14	0.12
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	16	0.12
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	17	0.12
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	18	0.12
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	19	0.12
(1,945)	1:57:A:VAL:HA	1:57:A:VAL:HB	20	0.12
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	15	0.12
(1,915)	1:54:A:LYS:HA	1:54:A:LYS:HB3	17	0.12
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	11	0.12
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	11	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	1	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	3	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	4	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	5	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	6	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	7	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	8	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	9	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	10	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	11	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	12	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	13	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	14	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	15	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	16	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	17	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	18	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	19	0.12
(1,896)	1:53:A:ILE:HB	1:53:A:ILE:HA	20	0.12
(1,813)	1:48:A:TYR:HB3	1:48:A:TYR:H	7	0.12
(1,813)	1:48:A:TYR:HB3	1:48:A:TYR:H	13	0.12
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	11	0.12
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	8	0.12
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	9	0.12
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	19	0.12
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	19	0.12
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	10	0.12
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	12	0.12
(1,735)	1:40:A:SER:HB2	1:56:A:ASN:HB2	4	0.12
(1,735)	1:40:A:SER:HB2	1:56:A:ASN:HB2	19	0.12
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	6	0.12
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	6	0.12
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	20	0.12
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	20	0.12
(1,630)	1:36:A:PHE:HD1	1:33:A:HIS:HA	18	0.12
(1,630)	1:36:A:PHE:HD2	1:33:A:HIS:HA	18	0.12
(1,613)	1:35:A:ILE:HG21	1:59:A:TRP:HB2	13	0.12
(1,613)	1:35:A:ILE:HG21	1:59:A:TRP:HB3	13	0.12
(1,613)	1:35:A:ILE:HG22	1:59:A:TRP:HB2	13	0.12
(1,613)	1:35:A:ILE:HG22	1:59:A:TRP:HB3	13	0.12
(1,613)	1:35:A:ILE:HG23	1:59:A:TRP:HB2	13	0.12
(1,613)	1:35:A:ILE:HG23	1:59:A:TRP:HB3	13	0.12
(1,601)	1:35:A:ILE:HD11	2:104:A:HEC:HMA1	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,601)	1:35:A:ILE:HD11	2:104:A:HEC:HMA2	7	0.12
(1,601)	1:35:A:ILE:HD11	2:104:A:HEC:HMA3	7	0.12
(1,601)	1:35:A:ILE:HD12	2:104:A:HEC:HMA1	7	0.12
(1,601)	1:35:A:ILE:HD12	2:104:A:HEC:HMA2	7	0.12
(1,601)	1:35:A:ILE:HD12	2:104:A:HEC:HMA3	7	0.12
(1,601)	1:35:A:ILE:HD13	2:104:A:HEC:HMA1	7	0.12
(1,601)	1:35:A:ILE:HD13	2:104:A:HEC:HMA2	7	0.12
(1,601)	1:35:A:ILE:HD13	2:104:A:HEC:HMA3	7	0.12
(1,589)	1:35:A:ILE:HA	1:35:A:ILE:HB	6	0.12
(1,575)	1:34:A:GLY:HA2	1:33:A:HIS:H	10	0.12
(1,575)	1:34:A:GLY:HA3	1:33:A:HIS:H	10	0.12
(1,563)	1:32:A:LEU:HD11	1:35:A:ILE:H	15	0.12
(1,563)	1:32:A:LEU:HD12	1:35:A:ILE:H	15	0.12
(1,563)	1:32:A:LEU:HD13	1:35:A:ILE:H	15	0.12
(1,557)	1:32:A:LEU:H	1:19:A:THR:H	6	0.12
(1,550)	1:32:A:LEU:HB3	1:32:A:LEU:H	1	0.12
(1,498)	1:28:A:VAL:HG21	1:29:A:GLY:H	11	0.12
(1,498)	1:28:A:VAL:HG22	1:29:A:GLY:H	11	0.12
(1,498)	1:28:A:VAL:HG23	1:29:A:GLY:H	11	0.12
(1,486)	1:28:A:VAL:HA	1:28:A:VAL:HB	1	0.12
(1,486)	1:28:A:VAL:HA	1:28:A:VAL:HB	3	0.12
(1,486)	1:28:A:VAL:HA	1:28:A:VAL:HB	4	0.12
(1,486)	1:28:A:VAL:HA	1:28:A:VAL:HB	7	0.12
(1,486)	1:28:A:VAL:HA	1:28:A:VAL:HB	9	0.12
(1,486)	1:28:A:VAL:HA	1:28:A:VAL:HB	10	0.12
(1,486)	1:28:A:VAL:HA	1:28:A:VAL:HB	17	0.12
(1,464)	1:26:A:HIS:HA	1:31:A:ASN:HB3	15	0.12
(1,449)	1:24:A:GLY:HA2	1:31:A:ASN:HD21	2	0.12
(1,449)	1:24:A:GLY:HA3	1:31:A:ASN:HD21	2	0.12
(1,441)	1:23:A:GLY:H	1:33:A:HIS:HB2	2	0.12
(1,441)	1:23:A:GLY:H	1:33:A:HIS:HB3	2	0.12
(1,441)	1:23:A:GLY:H	1:33:A:HIS:HB2	11	0.12
(1,441)	1:23:A:GLY:H	1:33:A:HIS:HB3	11	0.12
(1,417)	1:20:A:VAL:HA	1:33:A:HIS:H	19	0.12
(1,385)	1:19:A:THR:HA	1:19:A:THR:HB	2	0.12
(1,385)	1:19:A:THR:HA	1:19:A:THR:HB	5	0.12
(1,385)	1:19:A:THR:HA	1:19:A:THR:HB	9	0.12
(1,385)	1:19:A:THR:HA	1:19:A:THR:HB	13	0.12
(1,385)	1:19:A:THR:HA	1:19:A:THR:HB	14	0.12
(1,385)	1:19:A:THR:HA	1:19:A:THR:HB	16	0.12
(1,385)	1:19:A:THR:HA	1:19:A:THR:HB	17	0.12
(1,377)	1:18:A:HIS:HD1	1:31:A:ASN:HD21	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,377)	1:18:A:HIS:HD1	1:31:A:ASN:HD22	10	0.12
(1,273)	1:11:A:LYS:HA	1:14:A:CYS:HB2	11	0.12
(1,273)	1:11:A:LYS:HA	1:14:A:CYS:HB3	11	0.12
(1,272)	1:11:A:LYS:HA	1:14:A:CYS:H	2	0.12
(1,272)	1:11:A:LYS:HA	1:14:A:CYS:H	11	0.12
(1,272)	1:11:A:LYS:HA	1:14:A:CYS:H	15	0.12
(1,272)	1:11:A:LYS:HA	1:14:A:CYS:H	18	0.12
(1,255)	1:10:A:PHE:HZ	1:19:A:THR:HB	15	0.12
(1,253)	1:10:A:PHE:HZ	1:18:A:HIS:HB2	6	0.12
(1,253)	1:10:A:PHE:HZ	1:18:A:HIS:HB3	6	0.12
(1,145)	1:8:A:THR:HB	1:8:A:THR:HA	3	0.12
(1,145)	1:8:A:THR:HB	1:8:A:THR:HA	4	0.12
(1,145)	1:8:A:THR:HB	1:8:A:THR:HA	13	0.12
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	1	0.12
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	2	0.12
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	5	0.12
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	6	0.12
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	7	0.12
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	8	0.12
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	10	0.12
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	11	0.12
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	12	0.12
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	14	0.12
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	16	0.12
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	20	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	1	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	2	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	3	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	4	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	5	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	6	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	7	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	8	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	9	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	10	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	11	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	12	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	13	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	14	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	15	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	16	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	18	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	19	0.12
(1,99)	1:5:A:LYS:HB2	1:5:A:LYS:HA	20	0.12
(1,74)	1:2:A:SER:H	1:4:A:LYS:HE2	6	0.12
(1,74)	1:2:A:SER:H	1:4:A:LYS:HE3	6	0.12
(1,66)	1:2:A:SER:HA	1:2:A:SER:HB3	2	0.12
(1,66)	1:2:A:SER:HA	1:2:A:SER:HB3	17	0.12
(1,66)	1:2:A:SER:HA	1:2:A:SER:HB3	19	0.12
(1,11)	1:-3:A:PHE:HB3	1:-3:A:PHE:HA	1	0.12
(1,11)	1:-3:A:PHE:HB3	1:-3:A:PHE:HA	10	0.12
(1,11)	1:-3:A:PHE:HB3	1:-3:A:PHE:HA	13	0.12
(1,11)	1:-3:A:PHE:HB3	1:-3:A:PHE:HA	19	0.12
(1,1746)	2:104:A:HEC:HBB	1:71:A:HIS:HD2	16	0.11
(1,1745)	2:104:A:HEC:HBD1	1:80:A:MET:H	20	0.11
(1,1745)	2:104:A:HEC:HBD2	1:80:A:MET:H	20	0.11
(1,1724)	2:104:A:HEC:HAD1	1:46:A:TYR:HD1	19	0.11
(1,1724)	2:104:A:HEC:HAD1	1:46:A:TYR:HD2	19	0.11
(1,1724)	2:104:A:HEC:HAD2	1:46:A:TYR:HD1	19	0.11
(1,1724)	2:104:A:HEC:HAD2	1:46:A:TYR:HD2	19	0.11
(1,1724)	2:104:A:HEC:HAD1	1:46:A:TYR:HD1	20	0.11
(1,1724)	2:104:A:HEC:HAD1	1:46:A:TYR:HD2	20	0.11
(1,1724)	2:104:A:HEC:HAD2	1:46:A:TYR:HD1	20	0.11
(1,1724)	2:104:A:HEC:HAD2	1:46:A:TYR:HD2	20	0.11
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE1	3	0.11
(1,1652)	1:99:A:LYS:HB3	1:36:A:PHE:HE2	3	0.11
(1,1632)	1:98:A:LEU:HG	1:97:A:TYR:HE1	5	0.11
(1,1632)	1:98:A:LEU:HG	1:97:A:TYR:HE2	5	0.11
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD21	1	0.11
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD22	1	0.11
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD23	1	0.11
(1,1578)	1:95:A:ILE:HG21	1:94:A:LEU:H	9	0.11
(1,1578)	1:95:A:ILE:HG22	1:94:A:LEU:H	9	0.11
(1,1578)	1:95:A:ILE:HG23	1:94:A:LEU:H	9	0.11
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	15	0.11
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	15	0.11
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	15	0.11
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	15	0.11
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	15	0.11
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	15	0.11
(1,1575)	1:95:A:ILE:HG12	1:99:A:LYS:H	10	0.11
(1,1575)	1:95:A:ILE:HG13	1:99:A:LYS:H	10	0.11
(1,1539)	1:94:A:LEU:HG	1:98:A:LEU:HG	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1528)	1:94:A:LEU:HD11	1:95:A:ILE:HG12	8	0.11
(1,1528)	1:94:A:LEU:HD12	1:95:A:ILE:HG12	8	0.11
(1,1528)	1:94:A:LEU:HD13	1:95:A:ILE:HG12	8	0.11
(1,1528)	1:94:A:LEU:HD11	1:95:A:ILE:HG12	11	0.11
(1,1528)	1:94:A:LEU:HD12	1:95:A:ILE:HG12	11	0.11
(1,1528)	1:94:A:LEU:HD13	1:95:A:ILE:HG12	11	0.11
(1,1484)	1:92:A:ASN:HB3	1:92:A:ASN:H	6	0.11
(1,1484)	1:92:A:ASN:HB3	1:92:A:ASN:H	7	0.11
(1,1484)	1:92:A:ASN:HB3	1:92:A:ASN:H	10	0.11
(1,1484)	1:92:A:ASN:HB3	1:92:A:ASN:H	13	0.11
(1,1484)	1:92:A:ASN:HB3	1:92:A:ASN:H	15	0.11
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	1	0.11
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	2	0.11
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	3	0.11
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	4	0.11
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	6	0.11
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	7	0.11
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	8	0.11
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	9	0.11
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	10	0.11
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	11	0.11
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	14	0.11
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	15	0.11
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	17	0.11
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	18	0.11
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	19	0.11
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	20	0.11
(1,1409)	1:85:A:LEU:HD11	1:90:A:ASP:HB2	2	0.11
(1,1409)	1:85:A:LEU:HD12	1:90:A:ASP:HB2	2	0.11
(1,1409)	1:85:A:LEU:HD13	1:90:A:ASP:HB2	2	0.11
(1,1409)	1:85:A:LEU:HD11	1:90:A:ASP:HB2	7	0.11
(1,1409)	1:85:A:LEU:HD12	1:90:A:ASP:HB2	7	0.11
(1,1409)	1:85:A:LEU:HD13	1:90:A:ASP:HB2	7	0.11
(1,1409)	1:85:A:LEU:HD11	1:90:A:ASP:HB2	11	0.11
(1,1409)	1:85:A:LEU:HD12	1:90:A:ASP:HB2	11	0.11
(1,1409)	1:85:A:LEU:HD13	1:90:A:ASP:HB2	11	0.11
(1,1409)	1:85:A:LEU:HD11	1:90:A:ASP:HB2	15	0.11
(1,1409)	1:85:A:LEU:HD12	1:90:A:ASP:HB2	15	0.11
(1,1409)	1:85:A:LEU:HD13	1:90:A:ASP:HB2	15	0.11
(1,1393)	1:85:A:LEU:HD11	1:85:A:LEU:H	1	0.11
(1,1393)	1:85:A:LEU:HD12	1:85:A:LEU:H	1	0.11
(1,1393)	1:85:A:LEU:HD13	1:85:A:LEU:H	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1393)	1:85:A:LEU:HD11	1:85:A:LEU:H	18	0.11
(1,1393)	1:85:A:LEU:HD12	1:85:A:LEU:H	18	0.11
(1,1393)	1:85:A:LEU:HD13	1:85:A:LEU:H	18	0.11
(1,1387)	1:85:A:LEU:HB3	1:85:A:LEU:H	4	0.11
(1,1387)	1:85:A:LEU:HB3	1:85:A:LEU:H	12	0.11
(1,1387)	1:85:A:LEU:HB3	1:85:A:LEU:H	14	0.11
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD11	6	0.11
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD12	6	0.11
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD13	6	0.11
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD11	16	0.11
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD12	16	0.11
(1,1382)	1:82:A:PHE:HB2	1:85:A:LEU:HD13	16	0.11
(1,1380)	1:82:A:PHE:HZ	1:85:A:LEU:HG	18	0.11
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC1	10	0.11
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC2	10	0.11
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC3	10	0.11
(1,1331)	1:78:A:THR:HA	1:76:A:PRO:HA	3	0.11
(1,1331)	1:78:A:THR:HA	1:76:A:PRO:HA	16	0.11
(1,1268)	1:70:A:ASN:HB2	1:71:A:HIS:HA	5	0.11
(1,1245)	1:69:A:THR:HB	1:69:A:THR:H	5	0.11
(1,1245)	1:69:A:THR:HB	1:69:A:THR:H	8	0.11
(1,1212)	1:68:A:LEU:HB3	1:68:A:LEU:H	2	0.11
(1,1212)	1:68:A:LEU:HB3	1:68:A:LEU:H	6	0.11
(1,1212)	1:68:A:LEU:HB3	1:68:A:LEU:H	8	0.11
(1,1212)	1:68:A:LEU:HB3	1:68:A:LEU:H	9	0.11
(1,1212)	1:68:A:LEU:HB3	1:68:A:LEU:H	12	0.11
(1,1212)	1:68:A:LEU:HB3	1:68:A:LEU:H	14	0.11
(1,1212)	1:68:A:LEU:HB3	1:68:A:LEU:H	18	0.11
(1,1212)	1:68:A:LEU:HB3	1:68:A:LEU:H	20	0.11
(1,1206)	1:67:A:TYR:HD1	1:68:A:LEU:HD11	12	0.11
(1,1206)	1:67:A:TYR:HD1	1:68:A:LEU:HD12	12	0.11
(1,1206)	1:67:A:TYR:HD1	1:68:A:LEU:HD13	12	0.11
(1,1206)	1:67:A:TYR:HD2	1:68:A:LEU:HD11	12	0.11
(1,1206)	1:67:A:TYR:HD2	1:68:A:LEU:HD12	12	0.11
(1,1206)	1:67:A:TYR:HD2	1:68:A:LEU:HD13	12	0.11
(1,1154)	1:64:A:MET:HE1	1:68:A:LEU:H	17	0.11
(1,1154)	1:64:A:MET:HE2	1:68:A:LEU:H	17	0.11
(1,1154)	1:64:A:MET:HE3	1:68:A:LEU:H	17	0.11
(1,1122)	1:64:A:MET:HB3	1:64:A:MET:H	3	0.11
(1,1122)	1:64:A:MET:HB3	1:64:A:MET:H	14	0.11
(1,1034)	1:59:A:TRP:HZ3	1:64:A:MET:HB2	4	0.11
(1,1034)	1:59:A:TRP:HZ3	1:64:A:MET:HB2	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE1	20	0.11
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE2	20	0.11
(1,1029)	1:59:A:TRP:HZ2	1:64:A:MET:HE3	20	0.11
(1,1001)	1:58:A:LEU:HD13	1:59:A:TRP:HD1	11	0.11
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	10	0.11
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	11	0.11
(1,1000)	1:58:A:LEU:HG	1:59:A:TRP:HD1	17	0.11
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	19	0.11
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	19	0.11
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	20	0.11
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	20	0.11
(1,987)	1:58:A:LEU:HG	1:59:A:TRP:HE3	2	0.11
(1,987)	1:58:A:LEU:HG	1:59:A:TRP:HE3	18	0.11
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	2	0.11
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	2	0.11
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	3	0.11
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	3	0.11
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	9	0.11
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	9	0.11
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	20	0.11
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	20	0.11
(1,889)	1:52:A:ASN:HD21	2:104:A:HEC:HAD1	12	0.11
(1,889)	1:52:A:ASN:HD22	2:104:A:HEC:HAD1	12	0.11
(1,839)	1:50:A:ASP:HB3	1:50:A:ASP:H	3	0.11
(1,839)	1:50:A:ASP:HB3	1:50:A:ASP:H	12	0.11
(1,839)	1:50:A:ASP:HB3	1:50:A:ASP:H	14	0.11
(1,839)	1:50:A:ASP:HB3	1:50:A:ASP:H	20	0.11
(1,813)	1:48:A:TYR:HB3	1:48:A:TYR:H	2	0.11
(1,813)	1:48:A:TYR:HB3	1:48:A:TYR:H	10	0.11
(1,813)	1:48:A:TYR:HB3	1:48:A:TYR:H	16	0.11
(1,797)	1:46:A:TYR:HA	1:44:A:GLU:H	13	0.11
(1,796)	1:46:A:TYR:HA	1:48:A:TYR:H	17	0.11
(1,763)	1:42:A:GLN:HG2	1:48:A:TYR:H	20	0.11
(1,763)	1:42:A:GLN:HG3	1:48:A:TYR:H	20	0.11
(1,741)	1:41:A:GLY:HA2	1:43:A:ALA:H	20	0.11
(1,741)	1:41:A:GLY:HA3	1:43:A:ALA:H	20	0.11
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	5	0.11
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	11	0.11
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	19	0.11
(1,735)	1:40:A:SER:HB2	1:56:A:ASN:HB2	18	0.11
(1,722)	1:40:A:SER:HB2	1:52:A:ASN:HD21	2	0.11
(1,722)	1:40:A:SER:HB2	1:52:A:ASN:HD22	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,722)	1:40:A:SER:HB2	1:52:A:ASN:HD21	3	0.11
(1,722)	1:40:A:SER:HB2	1:52:A:ASN:HD22	3	0.11
(1,699)	1:39:A:HIS:HB3	1:42:A:GLN:H	17	0.11
(1,699)	1:39:A:HIS:HB3	1:42:A:GLN:H	18	0.11
(1,685)	1:38:A:ARG:HG2	1:59:A:TRP:HD1	11	0.11
(1,685)	1:38:A:ARG:HG3	1:59:A:TRP:HD1	11	0.11
(1,682)	1:38:A:ARG:HD2	1:39:A:HIS:HE1	1	0.11
(1,682)	1:38:A:ARG:HD3	1:39:A:HIS:HE1	1	0.11
(1,682)	1:38:A:ARG:HD2	1:39:A:HIS:HE1	15	0.11
(1,682)	1:38:A:ARG:HD3	1:39:A:HIS:HE1	15	0.11
(1,596)	1:35:A:ILE:HD11	1:32:A:LEU:HB3	3	0.11
(1,596)	1:35:A:ILE:HD12	1:32:A:LEU:HB3	3	0.11
(1,596)	1:35:A:ILE:HD13	1:32:A:LEU:HB3	3	0.11
(1,575)	1:34:A:GLY:HA2	1:33:A:HIS:H	17	0.11
(1,575)	1:34:A:GLY:HA3	1:33:A:HIS:H	17	0.11
(1,564)	1:32:A:LEU:HB2	1:33:A:HIS:HB3	2	0.11
(1,564)	1:32:A:LEU:HB3	1:33:A:HIS:HB3	2	0.11
(1,563)	1:32:A:LEU:HD11	1:35:A:ILE:H	6	0.11
(1,563)	1:32:A:LEU:HD12	1:35:A:ILE:H	6	0.11
(1,563)	1:32:A:LEU:HD13	1:35:A:ILE:H	6	0.11
(1,550)	1:32:A:LEU:HB3	1:32:A:LEU:H	17	0.11
(1,547)	1:31:A:ASN:HB2	1:43:A:ALA:HB1	16	0.11
(1,547)	1:31:A:ASN:HB2	1:43:A:ALA:HB2	16	0.11
(1,547)	1:31:A:ASN:HB2	1:43:A:ALA:HB3	16	0.11
(1,547)	1:31:A:ASN:HB3	1:43:A:ALA:HB1	16	0.11
(1,547)	1:31:A:ASN:HB3	1:43:A:ALA:HB2	16	0.11
(1,547)	1:31:A:ASN:HB3	1:43:A:ALA:HB3	16	0.11
(1,523)	1:30:A:PRO:HB2	1:32:A:LEU:H	1	0.11
(1,523)	1:30:A:PRO:HB3	1:32:A:LEU:H	1	0.11
(1,516)	1:29:A:GLY:HA2	1:31:A:ASN:HD21	18	0.11
(1,516)	1:29:A:GLY:HA3	1:31:A:ASN:HD21	18	0.11
(1,486)	1:28:A:VAL:HA	1:28:A:VAL:HB	8	0.11
(1,486)	1:28:A:VAL:HA	1:28:A:VAL:HB	11	0.11
(1,486)	1:28:A:VAL:HA	1:28:A:VAL:HB	15	0.11
(1,464)	1:26:A:HIS:HA	1:31:A:ASN:HB3	18	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD11	16	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD12	16	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD13	16	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD21	16	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD22	16	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD23	16	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD11	16	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD12	16	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD13	16	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD21	16	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD22	16	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD23	16	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD11	16	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD12	16	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD13	16	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD21	16	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD22	16	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD23	16	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD11	17	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD12	17	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD13	17	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD21	17	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD22	17	0.11
(1,419)	1:20:A:VAL:HG21	1:98:A:LEU:HD23	17	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD11	17	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD12	17	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD13	17	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD21	17	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD22	17	0.11
(1,419)	1:20:A:VAL:HG22	1:98:A:LEU:HD23	17	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD11	17	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD12	17	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD13	17	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD21	17	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD22	17	0.11
(1,419)	1:20:A:VAL:HG23	1:98:A:LEU:HD23	17	0.11
(1,417)	1:20:A:VAL:HA	1:33:A:HIS:H	18	0.11
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG21	15	0.11
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG22	15	0.11
(1,401)	1:19:A:THR:HB	1:20:A:VAL:HG23	15	0.11
(1,385)	1:19:A:THR:HA	1:19:A:THR:HB	7	0.11
(1,385)	1:19:A:THR:HA	1:19:A:THR:HB	10	0.11
(1,385)	1:19:A:THR:HA	1:19:A:THR:HB	15	0.11
(1,377)	1:18:A:HIS:HD1	1:31:A:ASN:HD21	4	0.11
(1,377)	1:18:A:HIS:HD1	1:31:A:ASN:HD22	4	0.11
(1,369)	1:17:A:CYS:HA	1:19:A:THR:H	7	0.11
(1,369)	1:17:A:CYS:HA	1:19:A:THR:H	19	0.11
(1,359)	1:17:A:CYS:HB3	1:18:A:HIS:H	5	0.11
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,280)	1:12:A:THR:HB	1:12:A:THR:H	12	0.11
(1,273)	1:11:A:LYS:HA	1:14:A:CYS:HB2	10	0.11
(1,273)	1:11:A:LYS:HA	1:14:A:CYS:HB3	10	0.11
(1,273)	1:11:A:LYS:HA	1:14:A:CYS:HB2	15	0.11
(1,273)	1:11:A:LYS:HA	1:14:A:CYS:HB3	15	0.11
(1,273)	1:11:A:LYS:HA	1:14:A:CYS:HB2	20	0.11
(1,273)	1:11:A:LYS:HA	1:14:A:CYS:HB3	20	0.11
(1,272)	1:11:A:LYS:HA	1:14:A:CYS:H	12	0.11
(1,272)	1:11:A:LYS:HA	1:14:A:CYS:H	13	0.11
(1,272)	1:11:A:LYS:HA	1:14:A:CYS:H	16	0.11
(1,272)	1:11:A:LYS:HA	1:14:A:CYS:H	20	0.11
(1,263)	1:11:A:LYS:HB2	1:11:A:LYS:H	3	0.11
(1,263)	1:11:A:LYS:HB2	1:11:A:LYS:H	4	0.11
(1,255)	1:10:A:PHE:HZ	1:19:A:THR:HB	5	0.11
(1,255)	1:10:A:PHE:HZ	1:19:A:THR:HB	9	0.11
(1,169)	1:9:A:LEU:HD11	1:9:A:LEU:H	2	0.11
(1,169)	1:9:A:LEU:HD12	1:9:A:LEU:H	2	0.11
(1,169)	1:9:A:LEU:HD13	1:9:A:LEU:H	2	0.11
(1,169)	1:9:A:LEU:HD21	1:9:A:LEU:H	2	0.11
(1,169)	1:9:A:LEU:HD22	1:9:A:LEU:H	2	0.11
(1,169)	1:9:A:LEU:HD23	1:9:A:LEU:H	2	0.11
(1,169)	1:9:A:LEU:HD11	1:9:A:LEU:H	10	0.11
(1,169)	1:9:A:LEU:HD12	1:9:A:LEU:H	10	0.11
(1,169)	1:9:A:LEU:HD13	1:9:A:LEU:H	10	0.11
(1,169)	1:9:A:LEU:HD21	1:9:A:LEU:H	10	0.11
(1,169)	1:9:A:LEU:HD22	1:9:A:LEU:H	10	0.11
(1,169)	1:9:A:LEU:HD23	1:9:A:LEU:H	10	0.11
(1,169)	1:9:A:LEU:HD11	1:9:A:LEU:H	18	0.11
(1,169)	1:9:A:LEU:HD12	1:9:A:LEU:H	18	0.11
(1,169)	1:9:A:LEU:HD13	1:9:A:LEU:H	18	0.11
(1,169)	1:9:A:LEU:HD21	1:9:A:LEU:H	18	0.11
(1,169)	1:9:A:LEU:HD22	1:9:A:LEU:H	18	0.11
(1,169)	1:9:A:LEU:HD23	1:9:A:LEU:H	18	0.11
(1,169)	1:9:A:LEU:HD11	1:9:A:LEU:H	19	0.11
(1,169)	1:9:A:LEU:HD12	1:9:A:LEU:H	19	0.11
(1,169)	1:9:A:LEU:HD13	1:9:A:LEU:H	19	0.11
(1,169)	1:9:A:LEU:HD21	1:9:A:LEU:H	19	0.11
(1,169)	1:9:A:LEU:HD22	1:9:A:LEU:H	19	0.11
(1,169)	1:9:A:LEU:HD23	1:9:A:LEU:H	19	0.11
(1,169)	1:9:A:LEU:HD11	1:9:A:LEU:H	20	0.11
(1,169)	1:9:A:LEU:HD12	1:9:A:LEU:H	20	0.11
(1,169)	1:9:A:LEU:HD13	1:9:A:LEU:H	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,169)	1:9:A:LEU:HD21	1:9:A:LEU:H	20	0.11
(1,169)	1:9:A:LEU:HD22	1:9:A:LEU:H	20	0.11
(1,169)	1:9:A:LEU:HD23	1:9:A:LEU:H	20	0.11
(1,158)	1:8:A:THR:HB	1:11:A:LYS:HG2	17	0.11
(1,158)	1:8:A:THR:HB	1:11:A:LYS:HG3	17	0.11
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	9	0.11
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	15	0.11
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	17	0.11
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	18	0.11
(1,142)	1:8:A:THR:HB	1:8:A:THR:H	19	0.11
(1,74)	1:2:A:SER:H	1:4:A:LYS:HE2	2	0.11
(1,74)	1:2:A:SER:H	1:4:A:LYS:HE3	2	0.11
(1,74)	1:2:A:SER:H	1:4:A:LYS:HE2	4	0.11
(1,74)	1:2:A:SER:H	1:4:A:LYS:HE3	4	0.11
(1,74)	1:2:A:SER:H	1:4:A:LYS:HE2	13	0.11
(1,74)	1:2:A:SER:H	1:4:A:LYS:HE3	13	0.11
(1,74)	1:2:A:SER:H	1:4:A:LYS:HE2	20	0.11
(1,74)	1:2:A:SER:H	1:4:A:LYS:HE3	20	0.11
(1,66)	1:2:A:SER:HA	1:2:A:SER:HB3	3	0.11
(1,1746)	2:104:A:HEC:HMB	1:71:A:HIS:HD2	20	0.1
(1,1727)	2:104:A:HEC:HMA1	1:32:A:LEU:HD11	14	0.1
(1,1727)	2:104:A:HEC:HMA1	1:32:A:LEU:HD12	14	0.1
(1,1727)	2:104:A:HEC:HMA1	1:32:A:LEU:HD13	14	0.1
(1,1727)	2:104:A:HEC:HMA1	1:32:A:LEU:HD21	14	0.1
(1,1727)	2:104:A:HEC:HMA1	1:32:A:LEU:HD22	14	0.1
(1,1727)	2:104:A:HEC:HMA1	1:32:A:LEU:HD23	14	0.1
(1,1727)	2:104:A:HEC:HMA2	1:32:A:LEU:HD11	14	0.1
(1,1727)	2:104:A:HEC:HMA2	1:32:A:LEU:HD12	14	0.1
(1,1727)	2:104:A:HEC:HMA2	1:32:A:LEU:HD13	14	0.1
(1,1727)	2:104:A:HEC:HMA2	1:32:A:LEU:HD21	14	0.1
(1,1727)	2:104:A:HEC:HMA2	1:32:A:LEU:HD22	14	0.1
(1,1727)	2:104:A:HEC:HMA2	1:32:A:LEU:HD23	14	0.1
(1,1727)	2:104:A:HEC:HMA3	1:32:A:LEU:HD11	14	0.1
(1,1727)	2:104:A:HEC:HMA3	1:32:A:LEU:HD12	14	0.1
(1,1727)	2:104:A:HEC:HMA3	1:32:A:LEU:HD13	14	0.1
(1,1727)	2:104:A:HEC:HMA3	1:32:A:LEU:HD21	14	0.1
(1,1727)	2:104:A:HEC:HMA3	1:32:A:LEU:HD22	14	0.1
(1,1727)	2:104:A:HEC:HMA3	1:32:A:LEU:HD23	14	0.1
(1,1721)	2:104:A:HEC:HAC	1:18:A:HIS:HD2	1	0.1
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD21	7	0.1
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD22	7	0.1
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD23	7	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD21	12	0.1
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD22	12	0.1
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD23	12	0.1
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD21	17	0.1
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD22	17	0.1
(1,1609)	1:97:A:TYR:H	1:98:A:LEU:HD23	17	0.1
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD21	10	0.1
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD22	10	0.1
(1,1577)	1:95:A:ILE:HG12	1:98:A:LEU:HD23	10	0.1
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD21	10	0.1
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD22	10	0.1
(1,1577)	1:95:A:ILE:HG13	1:98:A:LEU:HD23	10	0.1
(1,1484)	1:92:A:ASN:HB3	1:92:A:ASN:H	1	0.1
(1,1484)	1:92:A:ASN:HB3	1:92:A:ASN:H	4	0.1
(1,1484)	1:92:A:ASN:HB3	1:92:A:ASN:H	8	0.1
(1,1484)	1:92:A:ASN:HB3	1:92:A:ASN:H	9	0.1
(1,1484)	1:92:A:ASN:HB3	1:92:A:ASN:H	11	0.1
(1,1484)	1:92:A:ASN:HB3	1:92:A:ASN:H	14	0.1
(1,1484)	1:92:A:ASN:HB3	1:92:A:ASN:H	16	0.1
(1,1484)	1:92:A:ASN:HB3	1:92:A:ASN:H	18	0.1
(1,1484)	1:92:A:ASN:HB3	1:92:A:ASN:H	19	0.1
(1,1484)	1:92:A:ASN:HB3	1:92:A:ASN:H	20	0.1
(1,1458)	1:90:A:ASP:HB3	1:90:A:ASP:H	12	0.1
(1,1440)	1:89:A:LYS:HB3	1:89:A:LYS:H	1	0.1
(1,1440)	1:89:A:LYS:HB3	1:89:A:LYS:H	9	0.1
(1,1440)	1:89:A:LYS:HB3	1:89:A:LYS:H	10	0.1
(1,1440)	1:89:A:LYS:HB3	1:89:A:LYS:H	16	0.1
(1,1415)	1:86:A:LYS:HB3	1:86:A:LYS:H	1	0.1
(1,1415)	1:86:A:LYS:HB3	1:86:A:LYS:H	12	0.1
(1,1415)	1:86:A:LYS:HB3	1:86:A:LYS:H	14	0.1
(1,1415)	1:86:A:LYS:HB3	1:86:A:LYS:H	17	0.1
(1,1415)	1:86:A:LYS:HB3	1:86:A:LYS:H	18	0.1
(1,1393)	1:85:A:LEU:HD11	1:85:A:LEU:H	17	0.1
(1,1393)	1:85:A:LEU:HD12	1:85:A:LEU:H	17	0.1
(1,1393)	1:85:A:LEU:HD13	1:85:A:LEU:H	17	0.1
(1,1393)	1:85:A:LEU:HD11	1:85:A:LEU:H	20	0.1
(1,1393)	1:85:A:LEU:HD12	1:85:A:LEU:H	20	0.1
(1,1393)	1:85:A:LEU:HD13	1:85:A:LEU:H	20	0.1
(1,1387)	1:85:A:LEU:HB3	1:85:A:LEU:H	17	0.1
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD21	14	0.1
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD22	14	0.1
(1,1384)	1:82:A:PHE:HB2	1:85:A:LEU:HD23	14	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC1	20	0.1
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC2	20	0.1
(1,1368)	1:82:A:PHE:HA	2:104:A:HEC:HMC3	20	0.1
(1,1331)	1:78:A:THR:HA	1:76:A:PRO:HA	19	0.1
(1,1289)	1:72:A:ALA:H	1:78:A:THR:HB	18	0.1
(1,1212)	1:68:A:LEU:HB3	1:68:A:LEU:H	5	0.1
(1,1212)	1:68:A:LEU:HB3	1:68:A:LEU:H	7	0.1
(1,1212)	1:68:A:LEU:HB3	1:68:A:LEU:H	11	0.1
(1,1212)	1:68:A:LEU:HB3	1:68:A:LEU:H	15	0.1
(1,1212)	1:68:A:LEU:HB3	1:68:A:LEU:H	17	0.1
(1,1122)	1:64:A:MET:HB3	1:64:A:MET:H	6	0.1
(1,1122)	1:64:A:MET:HB3	1:64:A:MET:H	8	0.1
(1,1122)	1:64:A:MET:HB3	1:64:A:MET:H	11	0.1
(1,1122)	1:64:A:MET:HB3	1:64:A:MET:H	12	0.1
(1,1122)	1:64:A:MET:HB3	1:64:A:MET:H	13	0.1
(1,1122)	1:64:A:MET:HB3	1:64:A:MET:H	18	0.1
(1,1122)	1:64:A:MET:HB3	1:64:A:MET:H	20	0.1
(1,1101)	1:63:A:ASN:HB3	1:63:A:ASN:H	2	0.1
(1,1101)	1:63:A:ASN:HB3	1:63:A:ASN:H	3	0.1
(1,1101)	1:63:A:ASN:HB3	1:63:A:ASN:H	4	0.1
(1,1101)	1:63:A:ASN:HB3	1:63:A:ASN:H	6	0.1
(1,1101)	1:63:A:ASN:HB3	1:63:A:ASN:H	14	0.1
(1,1101)	1:63:A:ASN:HB3	1:63:A:ASN:H	15	0.1
(1,1101)	1:63:A:ASN:HB3	1:63:A:ASN:H	18	0.1
(1,1101)	1:63:A:ASN:HB3	1:63:A:ASN:H	19	0.1
(1,1034)	1:59:A:TRP:HZ3	1:64:A:MET:HB2	2	0.1
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	2	0.1
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	2	0.1
(1,988)	1:58:A:LEU:HB2	1:59:A:TRP:HD1	18	0.1
(1,988)	1:58:A:LEU:HB3	1:59:A:TRP:HD1	18	0.1
(1,987)	1:58:A:LEU:HG	1:59:A:TRP:HE3	1	0.1
(1,987)	1:58:A:LEU:HG	1:59:A:TRP:HE3	12	0.1
(1,956)	1:57:A:VAL:HB	1:59:A:TRP:HZ2	3	0.1
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	11	0.1
(1,953)	1:57:A:VAL:HA	1:39:A:HIS:HD1	19	0.1
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	1	0.1
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	1	0.1
(1,910)	1:53:A:ILE:HG12	1:52:A:ASN:HD22	12	0.1
(1,910)	1:53:A:ILE:HG13	1:52:A:ASN:HD22	12	0.1
(1,840)	1:50:A:ASP:HB2	1:50:A:ASP:H	2	0.1
(1,839)	1:50:A:ASP:HB3	1:50:A:ASP:H	1	0.1
(1,839)	1:50:A:ASP:HB3	1:50:A:ASP:H	5	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,839)	1:50:A:ASP:HB3	1:50:A:ASP:H	7	0.1
(1,839)	1:50:A:ASP:HB3	1:50:A:ASP:H	8	0.1
(1,839)	1:50:A:ASP:HB3	1:50:A:ASP:H	15	0.1
(1,839)	1:50:A:ASP:HB3	1:50:A:ASP:H	17	0.1
(1,839)	1:50:A:ASP:HB3	1:50:A:ASP:H	18	0.1
(1,839)	1:50:A:ASP:HB3	1:50:A:ASP:H	19	0.1
(1,813)	1:48:A:TYR:HB3	1:48:A:TYR:H	3	0.1
(1,813)	1:48:A:TYR:HB3	1:48:A:TYR:H	6	0.1
(1,813)	1:48:A:TYR:HB3	1:48:A:TYR:H	8	0.1
(1,813)	1:48:A:TYR:HB3	1:48:A:TYR:H	9	0.1
(1,813)	1:48:A:TYR:HB3	1:48:A:TYR:H	14	0.1
(1,813)	1:48:A:TYR:HB3	1:48:A:TYR:H	15	0.1
(1,813)	1:48:A:TYR:HB3	1:48:A:TYR:H	17	0.1
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	16	0.1
(1,739)	1:41:A:GLY:H	1:59:A:TRP:HD1	18	0.1
(1,722)	1:40:A:SER:HB2	1:52:A:ASN:HD21	15	0.1
(1,722)	1:40:A:SER:HB2	1:52:A:ASN:HD22	15	0.1
(1,633)	1:36:A:PHE:HD1	1:64:A:MET:HB3	12	0.1
(1,633)	1:36:A:PHE:HD2	1:64:A:MET:HB3	12	0.1
(1,610)	1:35:A:ILE:HG21	1:32:A:LEU:HB3	9	0.1
(1,610)	1:35:A:ILE:HG22	1:32:A:LEU:HB3	9	0.1
(1,610)	1:35:A:ILE:HG23	1:32:A:LEU:HB3	9	0.1
(1,596)	1:35:A:ILE:HD11	1:32:A:LEU:HB3	4	0.1
(1,596)	1:35:A:ILE:HD12	1:32:A:LEU:HB3	4	0.1
(1,596)	1:35:A:ILE:HD13	1:32:A:LEU:HB3	4	0.1
(1,555)	1:32:A:LEU:HD21	1:32:A:LEU:H	1	0.1
(1,555)	1:32:A:LEU:HD22	1:32:A:LEU:H	1	0.1
(1,555)	1:32:A:LEU:HD23	1:32:A:LEU:H	1	0.1
(1,515)	1:29:A:GLY:HA2	1:26:A:HIS:HD1	1	0.1
(1,515)	1:29:A:GLY:HA3	1:26:A:HIS:HD1	1	0.1
(1,498)	1:28:A:VAL:HG21	1:29:A:GLY:H	8	0.1
(1,498)	1:28:A:VAL:HG22	1:29:A:GLY:H	8	0.1
(1,498)	1:28:A:VAL:HG23	1:29:A:GLY:H	8	0.1
(1,497)	1:28:A:VAL:HG11	1:29:A:GLY:H	12	0.1
(1,497)	1:28:A:VAL:HG12	1:29:A:GLY:H	12	0.1
(1,497)	1:28:A:VAL:HG13	1:29:A:GLY:H	12	0.1
(1,486)	1:28:A:VAL:HA	1:28:A:VAL:HB	18	0.1
(1,481)	1:27:A:LYS:HG2	1:28:A:VAL:H	20	0.1
(1,481)	1:27:A:LYS:HG3	1:28:A:VAL:H	20	0.1
(1,478)	1:27:A:LYS:HB3	1:27:A:LYS:H	8	0.1
(1,464)	1:26:A:HIS:HA	1:31:A:ASN:HB3	16	0.1
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	15	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,459)	1:26:A:HIS:HB3	1:26:A:HIS:HD2	20	0.1
(1,385)	1:19:A:THR:HA	1:19:A:THR:HB	1	0.1
(1,385)	1:19:A:THR:HA	1:19:A:THR:HB	3	0.1
(1,385)	1:19:A:THR:HA	1:19:A:THR:HB	11	0.1
(1,385)	1:19:A:THR:HA	1:19:A:THR:HB	19	0.1
(1,377)	1:18:A:HIS:HD1	1:31:A:ASN:HD21	18	0.1
(1,377)	1:18:A:HIS:HD1	1:31:A:ASN:HD22	18	0.1
(1,369)	1:17:A:CYS:HA	1:19:A:THR:H	9	0.1
(1,272)	1:11:A:LYS:HA	1:14:A:CYS:H	1	0.1
(1,272)	1:11:A:LYS:HA	1:14:A:CYS:H	10	0.1
(1,262)	1:11:A:LYS:HB3	1:11:A:LYS:H	11	0.1
(1,262)	1:11:A:LYS:HB3	1:11:A:LYS:H	16	0.1
(1,257)	1:10:A:PHE:HZ	1:20:A:VAL:HB	17	0.1
(1,248)	1:10:A:PHE:HE1	1:32:A:LEU:HD11	2	0.1
(1,248)	1:10:A:PHE:HE1	1:32:A:LEU:HD12	2	0.1
(1,248)	1:10:A:PHE:HE1	1:32:A:LEU:HD13	2	0.1
(1,248)	1:10:A:PHE:HE1	1:32:A:LEU:HD21	2	0.1
(1,248)	1:10:A:PHE:HE1	1:32:A:LEU:HD22	2	0.1
(1,248)	1:10:A:PHE:HE1	1:32:A:LEU:HD23	2	0.1
(1,248)	1:10:A:PHE:HE2	1:32:A:LEU:HD11	2	0.1
(1,248)	1:10:A:PHE:HE2	1:32:A:LEU:HD12	2	0.1
(1,248)	1:10:A:PHE:HE2	1:32:A:LEU:HD13	2	0.1
(1,248)	1:10:A:PHE:HE2	1:32:A:LEU:HD21	2	0.1
(1,248)	1:10:A:PHE:HE2	1:32:A:LEU:HD22	2	0.1
(1,248)	1:10:A:PHE:HE2	1:32:A:LEU:HD23	2	0.1
(1,246)	1:10:A:PHE:HE1	1:19:A:THR:HG21	4	0.1
(1,246)	1:10:A:PHE:HE1	1:19:A:THR:HG22	4	0.1
(1,246)	1:10:A:PHE:HE1	1:19:A:THR:HG23	4	0.1
(1,246)	1:10:A:PHE:HE2	1:19:A:THR:HG21	4	0.1
(1,246)	1:10:A:PHE:HE2	1:19:A:THR:HG22	4	0.1
(1,246)	1:10:A:PHE:HE2	1:19:A:THR:HG23	4	0.1
(1,246)	1:10:A:PHE:HE1	1:19:A:THR:HG21	8	0.1
(1,246)	1:10:A:PHE:HE1	1:19:A:THR:HG22	8	0.1
(1,246)	1:10:A:PHE:HE1	1:19:A:THR:HG23	8	0.1
(1,246)	1:10:A:PHE:HE2	1:19:A:THR:HG21	8	0.1
(1,246)	1:10:A:PHE:HE2	1:19:A:THR:HG22	8	0.1
(1,246)	1:10:A:PHE:HE2	1:19:A:THR:HG23	8	0.1
(1,180)	1:9:A:LEU:HA	1:94:A:LEU:HD11	6	0.1
(1,180)	1:9:A:LEU:HA	1:94:A:LEU:HD12	6	0.1
(1,180)	1:9:A:LEU:HA	1:94:A:LEU:HD13	6	0.1
(1,180)	1:9:A:LEU:HA	1:94:A:LEU:HD21	6	0.1
(1,180)	1:9:A:LEU:HA	1:94:A:LEU:HD22	6	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,180)	1:9:A:LEU:HA	1:94:A:LEU:HD23	6	0.1
(1,169)	1:9:A:LEU:HD11	1:9:A:LEU:H	5	0.1
(1,169)	1:9:A:LEU:HD12	1:9:A:LEU:H	5	0.1
(1,169)	1:9:A:LEU:HD13	1:9:A:LEU:H	5	0.1
(1,169)	1:9:A:LEU:HD21	1:9:A:LEU:H	5	0.1
(1,169)	1:9:A:LEU:HD22	1:9:A:LEU:H	5	0.1
(1,169)	1:9:A:LEU:HD23	1:9:A:LEU:H	5	0.1
(1,169)	1:9:A:LEU:HD11	1:9:A:LEU:H	7	0.1
(1,169)	1:9:A:LEU:HD12	1:9:A:LEU:H	7	0.1
(1,169)	1:9:A:LEU:HD13	1:9:A:LEU:H	7	0.1
(1,169)	1:9:A:LEU:HD21	1:9:A:LEU:H	7	0.1
(1,169)	1:9:A:LEU:HD22	1:9:A:LEU:H	7	0.1
(1,169)	1:9:A:LEU:HD23	1:9:A:LEU:H	7	0.1
(1,96)	1:5:A:LYS:HB3	1:5:A:LYS:H	1	0.1
(1,96)	1:5:A:LYS:HB3	1:5:A:LYS:H	2	0.1
(1,96)	1:5:A:LYS:HB3	1:5:A:LYS:H	5	0.1
(1,96)	1:5:A:LYS:HB3	1:5:A:LYS:H	7	0.1
(1,96)	1:5:A:LYS:HB3	1:5:A:LYS:H	9	0.1
(1,96)	1:5:A:LYS:HB3	1:5:A:LYS:H	14	0.1
(1,96)	1:5:A:LYS:HB3	1:5:A:LYS:H	19	0.1
(1,96)	1:5:A:LYS:HB3	1:5:A:LYS:H	20	0.1
(1,66)	1:2:A:SER:HA	1:2:A:SER:HB3	16	0.1

10 Dihedral-angle violation analysis

No dihedral-angle restraints found