



Full wwPDB NMR Structure Validation Report ⓘ

Mar 22, 2026 – 04:28 PM UTC

PDB ID : 4BHP / pdb_00004bhp
BMRB ID : 19145
Title : A structural model of CAP mutant (T127L and S128I) in cGMP-bound state
Authors : Tzeng, S.R.; Kalodimos, C.G.
Deposited on : 2013-04-04

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

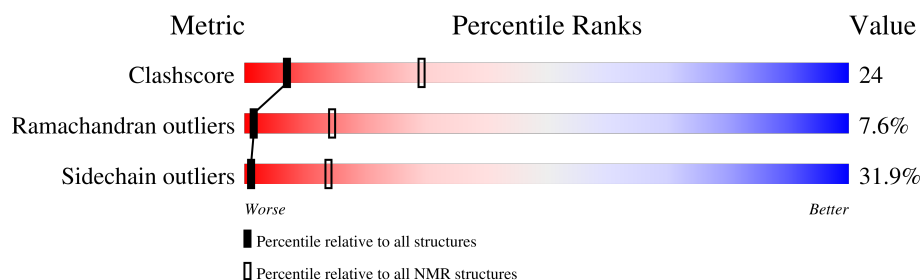
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 12%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	209	34% 45% 8% 12%

2 Ensemble composition and analysis

This entry contains 20 models. Model 18 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative.

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:7-A:31, A:37-A:51, A:58-A:75, A:82-A:126, A:130-A:209 (183)	0.95	18

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

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

The models can be grouped into 2 clusters and 2 single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 3182 atoms, of which 1530 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called CAMP RECEPTOR PROTEIN.

Mol	Chain	Residues	Atoms						Trace
1	A	209	Total	C	H	N	O	S	0
			3182	1049	1530	290	304	9	

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	127	LEU	THR	engineered mutation	UNP P0ACJ8
A	128	ILE	SER	engineered mutation	UNP P0ACJ8

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

• Molecule 1: CAMP RECEPTOR PROTEIN

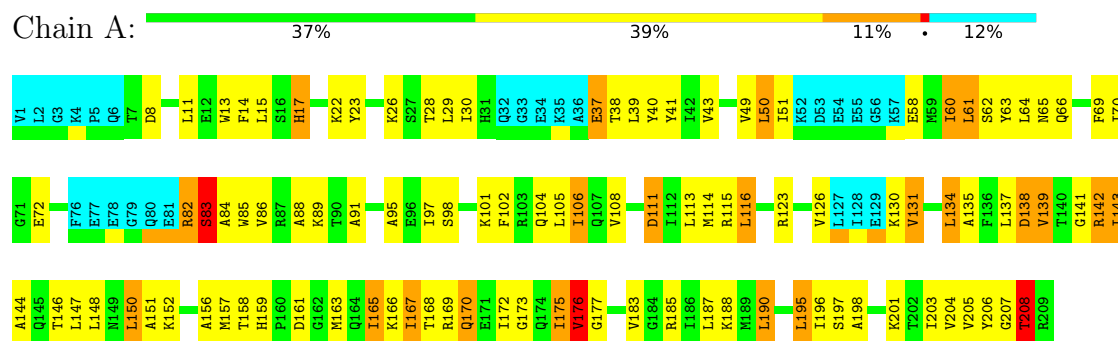


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

• Molecule 1: CAMP RECEPTOR PROTEIN



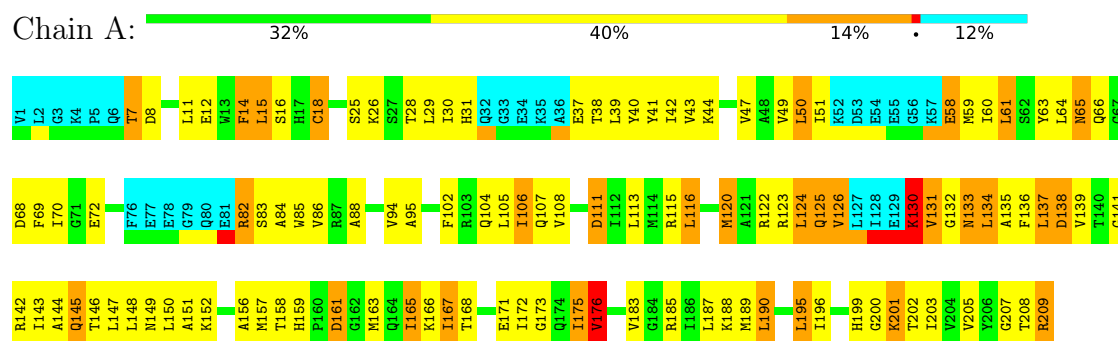
4.2.2 Score per residue for model 2

• Molecule 1: CAMP RECEPTOR PROTEIN



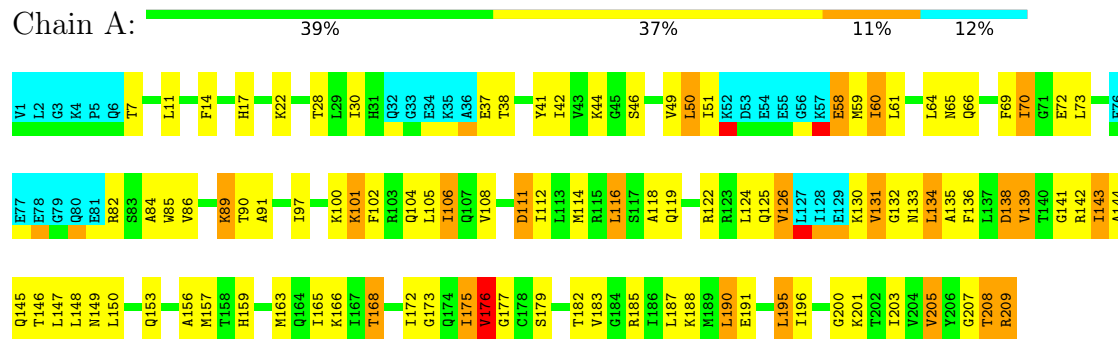
4.2.3 Score per residue for model 3

• Molecule 1: CAMP RECEPTOR PROTEIN



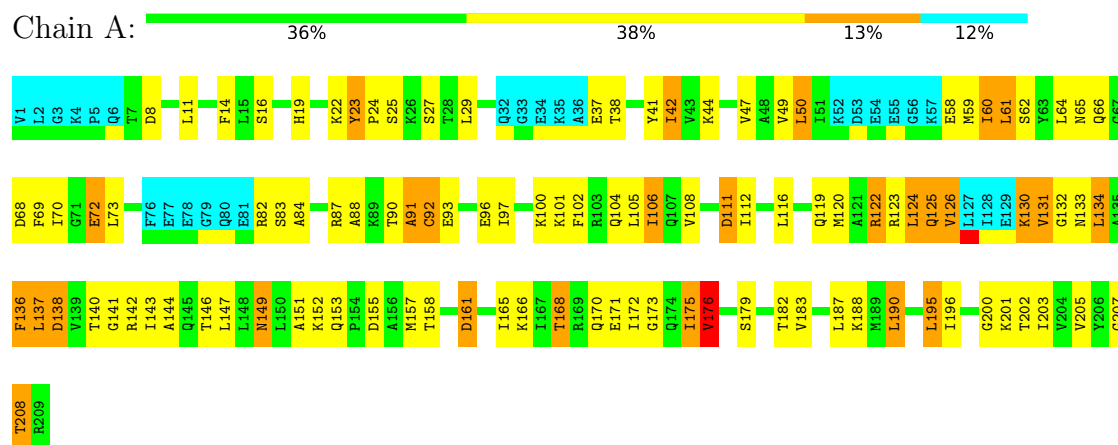
4.2.4 Score per residue for model 4

• Molecule 1: CAMP RECEPTOR PROTEIN



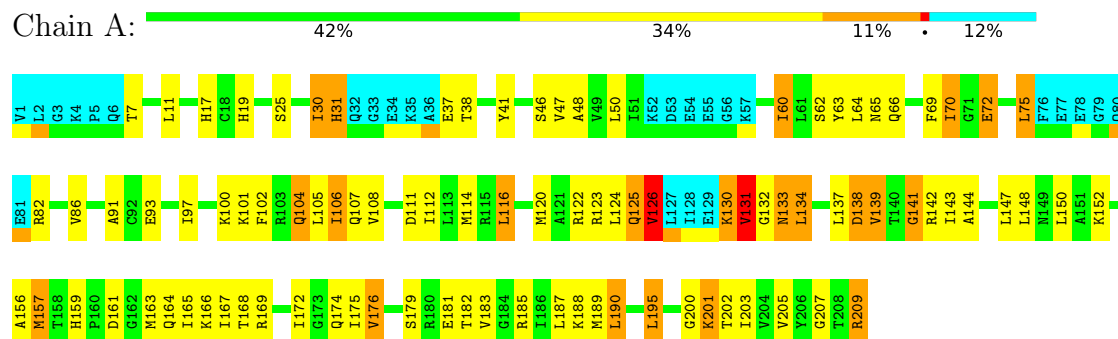
4.2.5 Score per residue for model 5

• Molecule 1: CAMP RECEPTOR PROTEIN



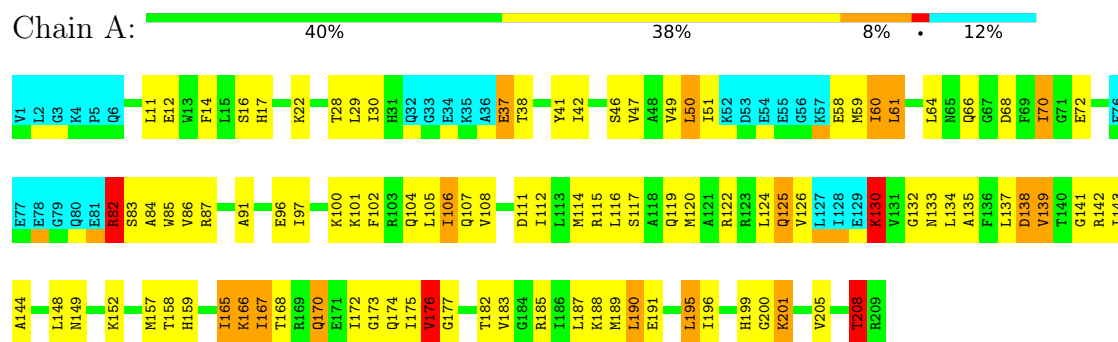
4.2.6 Score per residue for model 6

• Molecule 1: CAMP RECEPTOR PROTEIN



4.2.7 Score per residue for model 7

• Molecule 1: CAMP RECEPTOR PROTEIN



4.2.8 Score per residue for model 8

• Molecule 1: CAMP RECEPTOR PROTEIN



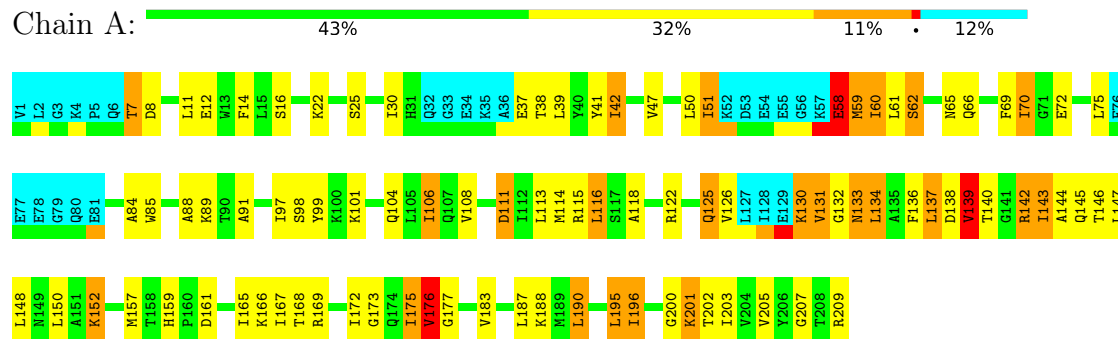
4.2.9 Score per residue for model 9

• Molecule 1: CAMP RECEPTOR PROTEIN



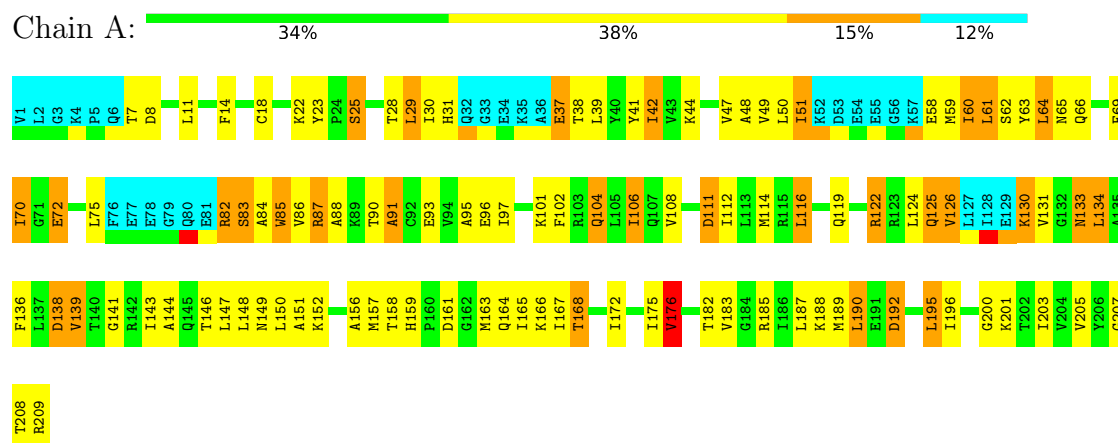
4.2.10 Score per residue for model 10

• Molecule 1: CAMP RECEPTOR PROTEIN



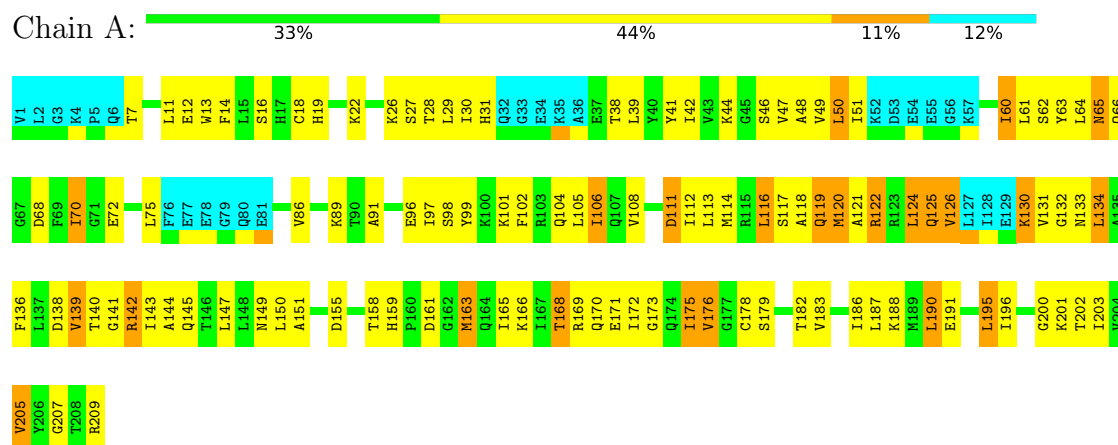
4.2.11 Score per residue for model 11

• Molecule 1: CAMP RECEPTOR PROTEIN



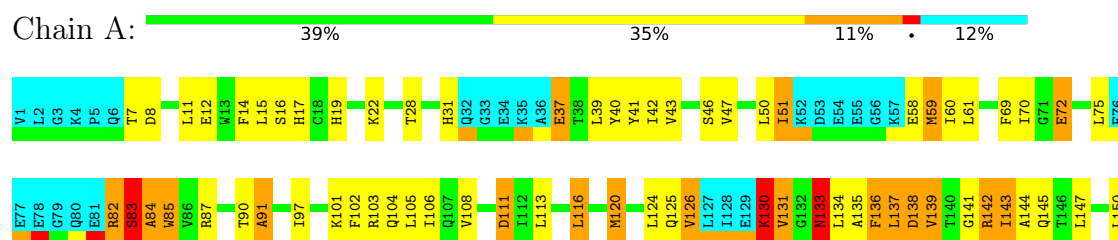
4.2.12 Score per residue for model 12

• Molecule 1: CAMP RECEPTOR PROTEIN



4.2.13 Score per residue for model 13

• Molecule 1: CAMP RECEPTOR PROTEIN

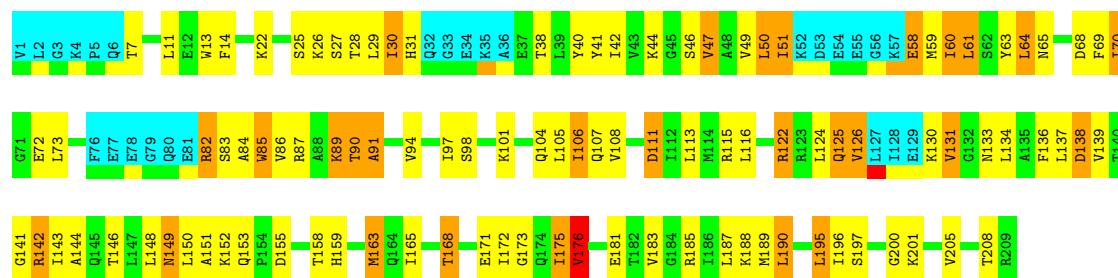




4.2.14 Score per residue for model 14

- Molecule 1: CAMP RECEPTOR PROTEIN

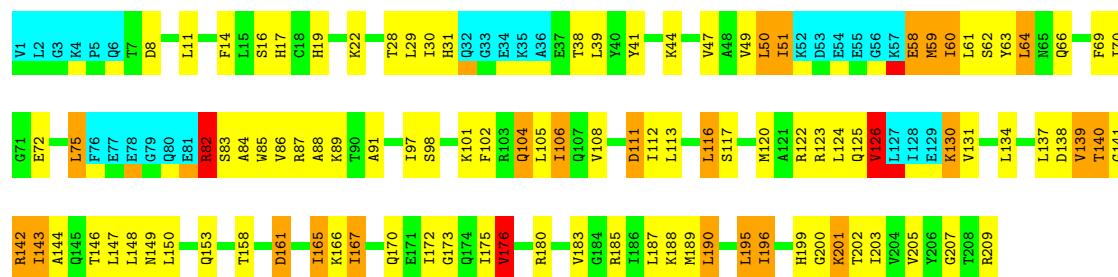
Chain A: 38% 36% 13% 12%



4.2.15 Score per residue for model 15

- Molecule 1: CAMP RECEPTOR PROTEIN

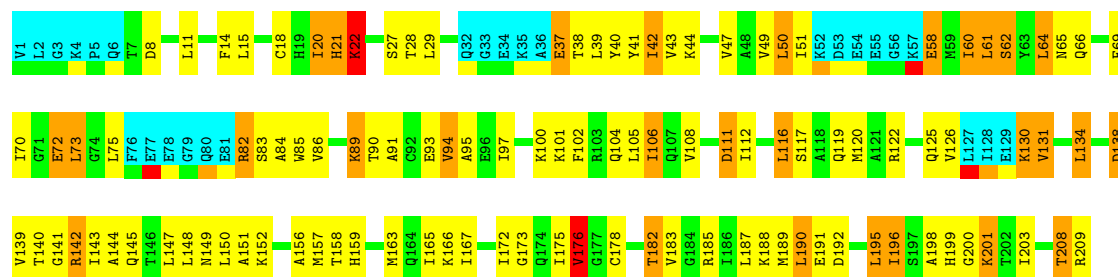
Chain A: 38% 37% 11% 12%



4.2.16 Score per residue for model 16

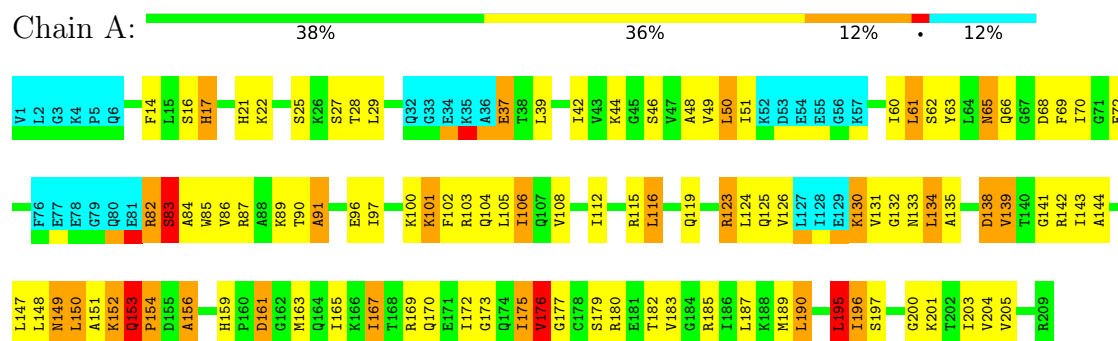
- Molecule 1: CAMP RECEPTOR PROTEIN

Chain A: 34% 38% 14% 12%



4.2.17 Score per residue for model 17

• Molecule 1: CAMP RECEPTOR PROTEIN



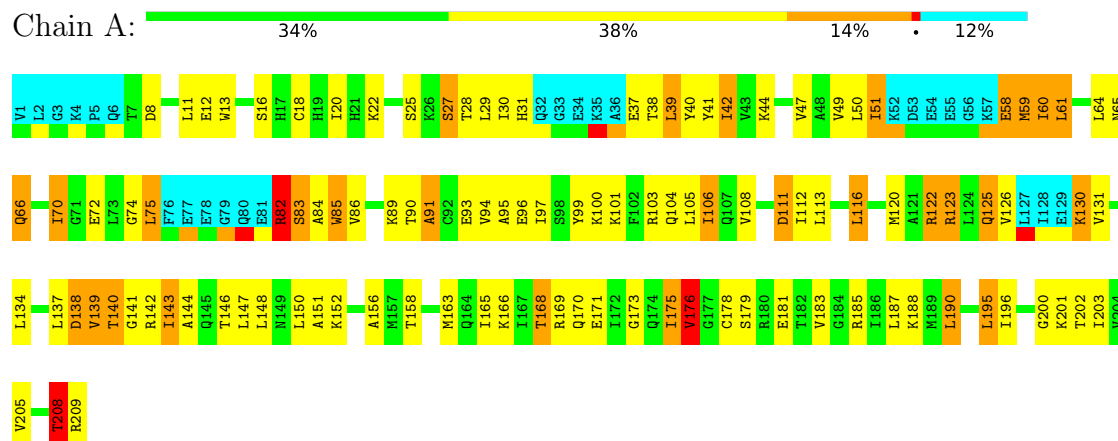
4.2.18 Score per residue for model 18 (medoid)

• Molecule 1: CAMP RECEPTOR PROTEIN



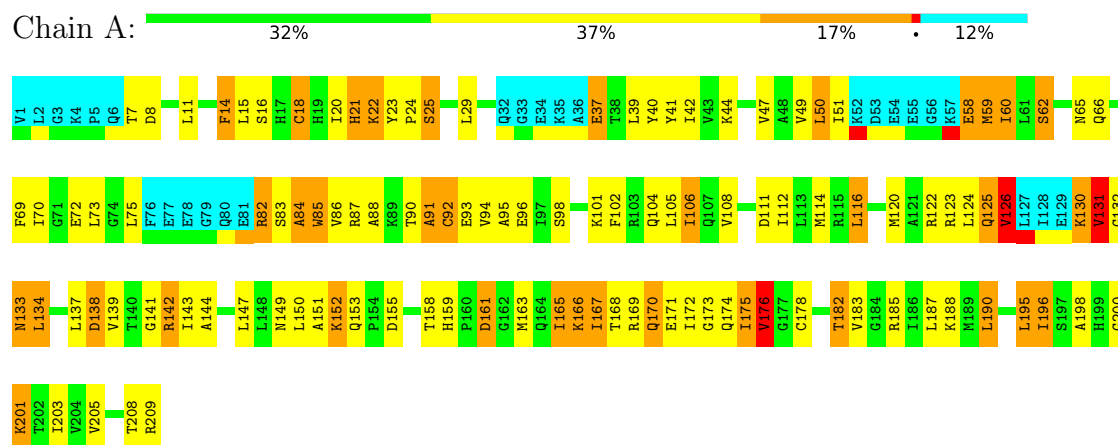
4.2.19 Score per residue for model 19

• Molecule 1: CAMP RECEPTOR PROTEIN



4.2.20 Score per residue for model 20

• Molecule 1: CAMP RECEPTOR PROTEIN



5 Refinement protocol and experimental data overview

The models were refined using the following method: *NTORSION ANGLE DYNAMICS, SIMULATED SIMULATED*.

Of the 200 calculated structures, 20 were deposited, based on the following criterion: *structures with the least restraint violations*.

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

Software name	Classification	Version
CNS	refinement	
CARA; NMRPIPE; CYANA	structure solution	CYANA
HADDOCK	structure solution	

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	369
Number of shifts mapped to atoms	369
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	12%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.23±0.00	0±0/1472 (0.0± 0.0%)	0.63±0.01	0±0/1988 (0.0± 0.0%)
All	All	0.23	0/29440 (0.0%)	0.63	1/39760 (0.0%)

There are no bond-length outliers.

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	31	HIS	CB-CA-C	-5.77	109.94	116.63	18	1

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	1448	1344	1507	71±11
All	All	28960	26880	30140	1417

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 24.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:61:LEU:HD23	1:A:131:VAL:HG12	1.04	1.30	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:187:LEU:HD13	1:A:190:LEU:HD11	1.02	1.30	17	20
1:A:61:LEU:HD23	1:A:131:VAL:HG11	1.02	1.26	8	2
1:A:150:LEU:HD13	1:A:165:ILE:HD13	0.96	1.33	4	3
1:A:49:VAL:HG13	1:A:85:TRP:CB	0.87	2.00	14	1
1:A:122:ARG:O	1:A:126:VAL:N	0.86	2.07	15	6
1:A:49:VAL:C	1:A:50:LEU:HD13	0.84	1.96	4	9
1:A:29:LEU:HD13	1:A:86:VAL:HG12	0.81	1.51	17	9
1:A:29:LEU:HD11	1:A:88:ALA:HB2	0.80	1.54	18	6
1:A:143:ILE:HD12	1:A:144:ALA:N	0.80	1.91	9	20
1:A:143:ILE:HG22	1:A:183:VAL:HG13	0.77	1.56	10	8
1:A:151:ALA:HB1	1:A:163:MET:HE3	0.77	1.55	18	6
1:A:50:LEU:HD22	1:A:85:TRP:O	0.76	1.80	16	5
1:A:150:LEU:HD22	1:A:165:ILE:HG23	0.76	1.56	19	3
1:A:173:GLY:HA2	1:A:183:VAL:HG21	0.76	1.58	10	18
1:A:31:HIS:NE2	1:A:84:ALA:HB3	0.76	1.95	18	1
1:A:39:LEU:HD13	1:A:72:GLU:CD	0.76	2.06	19	1
1:A:151:ALA:HB2	1:A:205:VAL:HG21	0.75	1.57	1	10
1:A:20:ILE:HG23	1:A:95:ALA:HB2	0.75	1.57	16	1
1:A:106:ILE:HD12	1:A:113:LEU:HD13	0.74	1.60	13	8
1:A:134:LEU:C	1:A:134:LEU:HD22	0.74	2.08	17	1
1:A:124:LEU:O	1:A:125:GLN:CB	0.74	2.36	12	1
1:A:142:ARG:HB3	1:A:176:VAL:HG13	0.73	1.57	13	12
1:A:106:ILE:HD12	1:A:113:LEU:HD22	0.72	1.60	12	1
1:A:82:ARG:O	1:A:83:SER:C	0.72	2.33	17	4
1:A:130:LYS:HG2	1:A:130:LYS:O	0.72	1.83	17	1
1:A:168:THR:HG23	1:A:200:GLY:C	0.72	2.10	19	8
1:A:70:ILE:HG21	1:A:86:VAL:HG21	0.72	1.62	19	6
1:A:137:LEU:HD23	1:A:138:ASP:N	0.72	2.00	10	1
1:A:51:ILE:CG2	1:A:61:LEU:HD12	0.71	2.14	3	5
1:A:61:LEU:CD2	1:A:131:VAL:HG11	0.71	2.15	3	2
1:A:90:THR:O	1:A:91:ALA:C	0.71	2.33	20	10
1:A:130:LYS:O	1:A:134:LEU:HD11	0.71	1.85	20	4
1:A:59:MET:HE3	1:A:175:ILE:O	0.71	1.85	20	1
1:A:51:ILE:HD13	1:A:61:LEU:HD12	0.71	1.61	9	6
1:A:130:LYS:HD2	1:A:175:ILE:HG21	0.70	1.61	1	2
1:A:70:ILE:CG2	1:A:86:VAL:HG21	0.70	2.16	9	1
1:A:142:ARG:CB	1:A:176:VAL:HG13	0.70	2.16	13	7
1:A:72:GLU:CG	1:A:116:LEU:HD11	0.69	2.18	8	8
1:A:137:LEU:HD23	1:A:137:LEU:C	0.69	2.12	10	1
1:A:72:GLU:CD	1:A:116:LEU:HD21	0.68	2.12	1	1
1:A:23:TYR:CE1	1:A:29:LEU:HD21	0.68	2.23	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:49:VAL:HG13	1:A:85:TRP:HB2	0.68	1.63	14	1
1:A:146:THR:CG2	1:A:175:ILE:HD12	0.68	2.18	1	4
1:A:142:ARG:HD2	1:A:176:VAL:HG12	0.68	1.64	6	1
1:A:147:LEU:HD13	1:A:196:ILE:HG21	0.68	1.66	17	1
1:A:61:LEU:HD22	1:A:131:VAL:HG12	0.68	1.65	19	4
1:A:39:LEU:HD12	1:A:40:TYR:N	0.68	2.02	19	1
1:A:146:THR:HG23	1:A:175:ILE:HD12	0.68	1.65	1	6
1:A:142:ARG:HG2	1:A:176:VAL:HG12	0.68	1.64	12	1
1:A:123:ARG:O	1:A:131:VAL:HG21	0.68	1.88	17	3
1:A:104:GLN:O	1:A:108:VAL:HG13	0.67	1.89	4	1
1:A:47:VAL:HG13	1:A:92:CYS:SG	0.67	2.29	5	1
1:A:148:LEU:HD22	1:A:208:THR:HG22	0.67	1.64	19	3
1:A:50:LEU:HD13	1:A:50:LEU:N	0.67	2.04	3	7
1:A:49:VAL:HG13	1:A:84:ALA:HB1	0.67	1.66	4	4
1:A:134:LEU:HD12	1:A:135:ALA:N	0.67	2.05	13	7
1:A:196:ILE:HG21	1:A:205:VAL:HG12	0.66	1.67	5	8
1:A:150:LEU:CD1	1:A:167:ILE:HD11	0.66	2.20	6	5
1:A:130:LYS:O	1:A:134:LEU:HD21	0.66	1.90	19	3
1:A:140:THR:HG22	1:A:186:ILE:HD11	0.66	1.65	12	1
1:A:196:ILE:CG2	1:A:205:VAL:HG12	0.66	2.21	7	9
1:A:47:VAL:HG12	1:A:88:ALA:HA	0.66	1.67	5	3
1:A:196:ILE:HD11	1:A:209:ARG:C	0.66	2.15	16	2
1:A:104:GLN:O	1:A:108:VAL:HG23	0.66	1.91	17	19
1:A:39:LEU:HD22	1:A:102:PHE:CE2	0.66	2.25	12	7
1:A:150:LEU:HD11	1:A:167:ILE:HD11	0.66	1.66	16	3
1:A:20:ILE:O	1:A:21:HIS:CB	0.66	2.43	20	2
1:A:143:ILE:CG2	1:A:183:VAL:HG13	0.65	2.21	19	9
1:A:39:LEU:HD22	1:A:102:PHE:CD2	0.65	2.27	2	6
1:A:51:ILE:O	1:A:59:MET:HB3	0.65	1.92	18	6
1:A:72:GLU:CB	1:A:116:LEU:HD11	0.65	2.22	4	16
1:A:51:ILE:O	1:A:58:GLU:HA	0.65	1.92	14	4
1:A:50:LEU:H	1:A:50:LEU:HD22	0.65	1.50	14	1
1:A:59:MET:HE1	1:A:134:LEU:HG	0.64	1.67	20	1
1:A:31:HIS:CD2	1:A:84:ALA:HB3	0.64	2.28	18	1
1:A:63:TYR:CE2	1:A:150:LEU:HD21	0.64	2.28	17	1
1:A:30:ILE:HD11	1:A:40:TYR:CG	0.64	2.28	18	1
1:A:187:LEU:CD1	1:A:190:LEU:HD11	0.64	2.21	1	17
1:A:29:LEU:HD13	1:A:86:VAL:CG1	0.64	2.22	20	2
1:A:72:GLU:OE2	1:A:116:LEU:HD22	0.64	1.92	19	1
1:A:150:LEU:HD22	1:A:165:ILE:CG2	0.64	2.23	16	4
1:A:125:GLN:O	1:A:126:VAL:C	0.63	2.41	18	14

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:142:ARG:CG	1:A:176:VAL:HG12	0.63	2.23	12	1
1:A:50:LEU:HD12	1:A:60:ILE:HG23	0.63	1.69	14	6
1:A:139:VAL:O	1:A:140:THR:HG22	0.63	1.93	10	5
1:A:15:LEU:O	1:A:20:ILE:HD11	0.63	1.94	16	1
1:A:42:ILE:CG1	1:A:70:ILE:HD11	0.63	2.23	9	5
1:A:119:GLN:O	1:A:124:LEU:HD11	0.63	1.94	12	1
1:A:50:LEU:HD22	1:A:50:LEU:N	0.63	2.09	14	8
1:A:49:VAL:CG1	1:A:84:ALA:HB1	0.63	2.23	4	5
1:A:120:MET:CG	1:A:124:LEU:HD21	0.63	2.24	9	1
1:A:150:LEU:CB	1:A:165:ILE:HD13	0.63	2.24	20	3
1:A:38:THR:HG23	1:A:97:ILE:C	0.63	2.19	18	12
1:A:123:ARG:O	1:A:131:VAL:HG11	0.63	1.93	6	4
1:A:39:LEU:HD13	1:A:102:PHE:CE2	0.62	2.29	20	1
1:A:150:LEU:HD22	1:A:167:ILE:HD13	0.62	1.70	18	1
1:A:142:ARG:HG2	1:A:176:VAL:HG13	0.62	1.72	5	2
1:A:29:LEU:HD12	1:A:86:VAL:O	0.62	1.94	11	1
1:A:165:ILE:HD12	1:A:203:ILE:HB	0.62	1.72	17	12
1:A:51:ILE:O	1:A:59:MET:CB	0.62	2.48	9	5
1:A:51:ILE:HA	1:A:85:TRP:CE3	0.62	2.30	14	1
1:A:196:ILE:CG2	1:A:205:VAL:HG13	0.62	2.25	4	2
1:A:62:SER:HB2	1:A:131:VAL:HG12	0.62	1.71	2	1
1:A:150:LEU:HD13	1:A:167:ILE:HD11	0.62	1.71	13	5
1:A:50:LEU:HD21	1:A:87:ARG:CB	0.62	2.24	14	1
1:A:130:LYS:C	1:A:134:LEU:HD21	0.61	2.19	19	2
1:A:195:LEU:C	1:A:196:ILE:HD12	0.61	2.19	8	2
1:A:63:TYR:O	1:A:64:LEU:HD23	0.61	1.94	3	3
1:A:64:LEU:HD22	1:A:68:ASP:HB3	0.61	1.71	7	4
1:A:11:LEU:HD11	1:A:41:TYR:CZ	0.61	2.29	12	9
1:A:51:ILE:HG21	1:A:61:LEU:HD12	0.61	1.71	18	2
1:A:102:PHE:HA	1:A:105:LEU:HD12	0.61	1.71	1	11
1:A:147:LEU:HA	1:A:150:LEU:HD12	0.61	1.71	20	3
1:A:147:LEU:HD22	1:A:203:ILE:HG21	0.61	1.72	3	12
1:A:82:ARG:HD3	1:A:84:ALA:HB3	0.61	1.72	4	1
1:A:142:ARG:HB2	1:A:176:VAL:HG13	0.61	1.72	4	1
1:A:75:LEU:HD13	1:A:102:PHE:CD2	0.61	2.31	20	2
1:A:120:MET:HG2	1:A:124:LEU:HD21	0.61	1.69	9	2
1:A:156:ALA:HB1	1:A:163:MET:CG	0.60	2.26	8	10
1:A:61:LEU:CD2	1:A:131:VAL:HG12	0.60	2.26	19	3
1:A:72:GLU:HB3	1:A:116:LEU:HD11	0.60	1.72	16	5
1:A:61:LEU:O	1:A:131:VAL:HG13	0.60	1.96	18	4
1:A:29:LEU:CD1	1:A:88:ALA:HB2	0.60	2.26	18	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:196:ILE:CG1	1:A:205:VAL:HG12	0.60	2.26	8	1
1:A:165:ILE:CG2	1:A:167:ILE:HD12	0.60	2.26	17	7
1:A:126:VAL:HB	1:A:131:VAL:HG22	0.60	1.72	12	1
1:A:50:LEU:HD13	1:A:60:ILE:HA	0.60	1.74	6	5
1:A:150:LEU:CD1	1:A:165:ILE:HD13	0.60	2.27	12	1
1:A:29:LEU:HD22	1:A:94:VAL:HG21	0.59	1.74	9	2
1:A:69:PHE:CB	1:A:116:LEU:HD13	0.59	2.27	20	14
1:A:151:ALA:HB1	1:A:163:MET:CE	0.59	2.27	3	5
1:A:49:VAL:HG22	1:A:86:VAL:HG22	0.59	1.74	3	4
1:A:11:LEU:HD11	1:A:41:TYR:CE2	0.59	2.31	20	2
1:A:84:ALA:O	1:A:86:VAL:N	0.59	2.36	11	2
1:A:72:GLU:OE1	1:A:120:MET:HE2	0.59	1.98	9	2
1:A:20:ILE:HG23	1:A:95:ALA:CB	0.59	2.27	16	1
1:A:147:LEU:HD23	1:A:172:ILE:CD1	0.58	2.27	8	12
1:A:130:LYS:HE2	1:A:175:ILE:HG21	0.58	1.73	19	1
1:A:148:LEU:HD13	1:A:208:THR:CG2	0.58	2.28	11	2
1:A:139:VAL:N	1:A:142:ARG:CZ	0.58	2.66	12	1
1:A:143:ILE:HG23	1:A:176:VAL:HG11	0.58	1.74	9	9
1:A:49:VAL:HG13	1:A:85:TRP:HB3	0.58	1.74	14	1
1:A:11:LEU:HD11	1:A:41:TYR:OH	0.58	1.98	1	10
1:A:150:LEU:O	1:A:156:ALA:HB3	0.58	1.99	19	2
1:A:126:VAL:HG21	1:A:152:LYS:CD	0.58	2.28	18	1
1:A:150:LEU:HB3	1:A:165:ILE:HD13	0.58	1.73	20	2
1:A:61:LEU:O	1:A:131:VAL:HG12	0.58	1.98	17	3
1:A:30:ILE:HD12	1:A:86:VAL:HG21	0.58	1.76	14	5
1:A:126:VAL:HG11	1:A:152:LYS:NZ	0.58	2.14	5	2
1:A:59:MET:CE	1:A:134:LEU:HD23	0.58	2.29	18	1
1:A:126:VAL:HG12	1:A:131:VAL:CG2	0.57	2.28	13	1
1:A:130:LYS:HG2	1:A:134:LEU:HD23	0.57	1.76	13	1
1:A:152:LYS:O	1:A:152:LYS:HG2	0.57	1.98	17	1
1:A:64:LEU:HD22	1:A:68:ASP:OD1	0.57	1.98	3	1
1:A:146:THR:O	1:A:150:LEU:HD12	0.57	1.99	15	2
1:A:51:ILE:HG22	1:A:85:TRP:CE3	0.57	2.33	14	1
1:A:70:ILE:HG21	1:A:86:VAL:CG2	0.57	2.29	19	1
1:A:11:LEU:HD21	1:A:41:TYR:OH	0.57	1.98	4	10
1:A:148:LEU:HD21	1:A:209:ARG:C	0.57	2.25	6	2
1:A:23:TYR:CG	1:A:29:LEU:HD23	0.57	2.33	11	1
1:A:69:PHE:CG	1:A:116:LEU:HD13	0.57	2.35	1	11
1:A:143:ILE:CG2	1:A:183:VAL:HG22	0.57	2.29	14	12
1:A:15:LEU:HD22	1:A:20:ILE:CG1	0.57	2.29	20	1
1:A:15:LEU:HD21	1:A:43:VAL:HG22	0.57	1.75	3	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:18:CYS:SG	1:A:95:ALA:HB1	0.57	2.39	16	1
1:A:39:LEU:HD13	1:A:72:GLU:CG	0.57	2.30	19	1
1:A:148:LEU:HB3	1:A:208:THR:HG23	0.56	1.77	9	3
1:A:47:VAL:HG22	1:A:64:LEU:HB2	0.56	1.76	19	5
1:A:163:MET:O	1:A:204:VAL:HG22	0.56	1.99	17	1
1:A:130:LYS:NZ	1:A:175:ILE:HD13	0.56	2.15	19	2
1:A:151:ALA:HB2	1:A:205:VAL:CG2	0.56	2.30	20	6
1:A:72:GLU:OE2	1:A:73:LEU:HD23	0.56	2.00	5	1
1:A:191:GLU:HG2	1:A:198:ALA:HB3	0.56	1.75	16	1
1:A:140:THR:HG23	1:A:140:THR:O	0.56	1.98	15	4
1:A:196:ILE:HG13	1:A:205:VAL:HG12	0.56	1.77	8	1
1:A:176:VAL:HG12	1:A:177:GLY:H	0.56	1.60	13	8
1:A:83:SER:O	1:A:84:ALA:HB2	0.56	2.01	13	1
1:A:51:ILE:HG22	1:A:61:LEU:HD12	0.56	1.77	8	1
1:A:20:ILE:HG21	1:A:43:VAL:HG21	0.56	1.78	16	1
1:A:172:ILE:O	1:A:176:VAL:HG23	0.56	2.00	13	14
1:A:7:THR:HG21	1:A:11:LEU:HD23	0.56	1.77	3	2
1:A:49:VAL:CG2	1:A:64:LEU:HD11	0.55	2.30	16	4
1:A:150:LEU:HD22	1:A:165:ILE:HG21	0.55	1.78	1	2
1:A:24:PRO:O	1:A:25:SER:CB	0.55	2.54	20	1
1:A:130:LYS:HD3	1:A:175:ILE:HG22	0.55	1.76	12	1
1:A:196:ILE:HG21	1:A:205:VAL:HG13	0.55	1.77	4	2
1:A:20:ILE:HG21	1:A:43:VAL:CG2	0.55	2.32	16	1
1:A:117:SER:HA	1:A:120:MET:HE3	0.55	1.78	12	4
1:A:124:LEU:HA	1:A:131:VAL:HG23	0.54	1.77	9	2
1:A:50:LEU:C	1:A:51:ILE:CG2	0.54	2.80	13	7
1:A:124:LEU:O	1:A:125:GLN:HB2	0.54	2.02	12	1
1:A:143:ILE:HG22	1:A:176:VAL:HG21	0.54	1.79	11	8
1:A:137:LEU:O	1:A:176:VAL:HG12	0.54	2.02	10	1
1:A:18:CYS:HB2	1:A:95:ALA:HB1	0.54	1.79	2	5
1:A:137:LEU:HD23	1:A:141:GLY:HA3	0.54	1.78	6	1
1:A:39:LEU:HD22	1:A:102:PHE:CZ	0.54	2.38	20	3
1:A:106:ILE:HG22	1:A:112:ILE:CG2	0.54	2.32	16	13
1:A:30:ILE:HD11	1:A:40:TYR:CD2	0.54	2.37	3	2
1:A:130:LYS:O	1:A:130:LYS:CG	0.54	2.55	17	2
1:A:48:ALA:HB2	1:A:63:TYR:CE1	0.54	2.37	2	6
1:A:143:ILE:HA	1:A:176:VAL:HG11	0.54	1.79	6	2
1:A:30:ILE:CD1	1:A:86:VAL:HG21	0.54	2.33	14	1
1:A:17:HIS:CB	1:A:105:LEU:HD11	0.54	2.32	17	2
1:A:147:LEU:HD23	1:A:172:ILE:HD12	0.54	1.79	18	5
1:A:30:ILE:HD12	1:A:70:ILE:HG22	0.54	1.78	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:59:MET:HE1	1:A:134:LEU:HD13	0.54	1.78	19	1
1:A:130:LYS:CD	1:A:175:ILE:HG21	0.54	2.33	4	2
1:A:23:TYR:CD2	1:A:29:LEU:HD23	0.54	2.37	11	3
1:A:114:MET:O	1:A:118:ALA:HB2	0.54	2.02	10	3
1:A:51:ILE:HD13	1:A:61:LEU:CD1	0.54	2.31	9	6
1:A:50:LEU:O	1:A:85:TRP:N	0.53	2.41	13	7
1:A:196:ILE:HD11	1:A:209:ARG:HG3	0.53	1.80	11	1
1:A:134:LEU:HD22	1:A:135:ALA:N	0.53	2.18	17	1
1:A:140:THR:HG22	1:A:186:ILE:CD1	0.53	2.34	12	1
1:A:147:LEU:HB3	1:A:205:VAL:HG11	0.53	1.80	13	2
1:A:117:SER:CB	1:A:120:MET:HE3	0.53	2.33	15	1
1:A:75:LEU:O	1:A:75:LEU:HD12	0.53	2.03	6	2
1:A:138:ASP:O	1:A:139:VAL:C	0.53	2.52	4	12
1:A:156:ALA:HB1	1:A:163:MET:HG2	0.53	1.79	8	3
1:A:14:PHE:HB2	1:A:105:LEU:HD13	0.53	1.81	3	1
1:A:126:VAL:HG21	1:A:152:LYS:NZ	0.53	2.17	8	1
1:A:21:HIS:O	1:A:22:LYS:HB3	0.53	2.04	16	1
1:A:147:LEU:HD12	1:A:196:ILE:HD12	0.53	1.79	3	1
1:A:150:LEU:HB3	1:A:165:ILE:HD12	0.53	1.79	14	1
1:A:192:ASP:CG	1:A:192:ASP:O	0.53	2.50	11	1
1:A:126:VAL:HG12	1:A:131:VAL:HG22	0.53	1.81	13	1
1:A:117:SER:OG	1:A:120:MET:HE3	0.53	2.03	15	1
1:A:29:LEU:HD21	1:A:94:VAL:HG21	0.53	1.80	20	1
1:A:106:ILE:CD1	1:A:113:LEU:HD13	0.53	2.30	3	5
1:A:143:ILE:HD12	1:A:144:ALA:H	0.53	1.63	15	18
1:A:161:ASP:OD2	1:A:204:VAL:HG11	0.53	2.04	1	1
1:A:133:ASN:OD1	1:A:133:ASN:C	0.53	2.50	10	3
1:A:62:SER:HB3	1:A:131:VAL:HG12	0.53	1.79	20	2
1:A:124:LEU:HA	1:A:131:VAL:HG11	0.53	1.80	11	2
1:A:106:ILE:HG22	1:A:112:ILE:HG23	0.53	1.81	4	6
1:A:148:LEU:HD21	1:A:209:ARG:HG3	0.53	1.81	4	1
1:A:50:LEU:HD21	1:A:87:ARG:HB3	0.53	1.81	14	2
1:A:21:HIS:HA	1:A:93:GLU:HA	0.53	1.81	20	2
1:A:153:GLN:H	1:A:154:PRO:HD2	0.53	1.64	17	1
1:A:148:LEU:HB3	1:A:208:THR:HG22	0.52	1.80	7	1
1:A:42:ILE:N	1:A:94:VAL:HG13	0.52	2.19	8	1
1:A:49:VAL:HG22	1:A:85:TRP:O	0.52	2.04	14	1
1:A:116:LEU:HD12	1:A:116:LEU:O	0.52	2.04	12	9
1:A:17:HIS:CD2	1:A:105:LEU:HD21	0.52	2.39	17	1
1:A:97:ILE:HD11	1:A:101:LYS:HB3	0.52	1.82	4	5
1:A:131:VAL:HG23	1:A:132:GLY:H	0.52	1.64	20	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:39:LEU:HD22	1:A:102:PHE:CE1	0.52	2.40	20	1
1:A:195:LEU:O	1:A:196:ILE:HD12	0.52	2.05	17	2
1:A:134:LEU:H	1:A:134:LEU:HD22	0.52	1.65	5	4
1:A:133:ASN:O	1:A:136:PHE:CD1	0.52	2.62	13	1
1:A:72:GLU:HG2	1:A:116:LEU:HD11	0.52	1.80	1	1
1:A:130:LYS:C	1:A:134:LEU:HD23	0.52	2.30	11	2
1:A:134:LEU:C	1:A:134:LEU:CD2	0.51	2.80	17	1
1:A:31:HIS:HA	1:A:85:TRP:CD1	0.51	2.41	13	1
1:A:73:LEU:HD23	1:A:120:MET:SD	0.51	2.45	20	1
1:A:73:LEU:HD12	1:A:83:SER:HB3	0.51	1.82	14	1
1:A:62:SER:HB2	1:A:131:VAL:HG13	0.51	1.82	10	2
1:A:122:ARG:O	1:A:126:VAL:HB	0.51	2.05	14	9
1:A:60:ILE:O	1:A:175:ILE:HG23	0.51	2.05	14	2
1:A:106:ILE:HD11	1:A:113:LEU:HD22	0.51	1.82	8	2
1:A:17:HIS:CG	1:A:105:LEU:HD11	0.51	2.41	17	1
1:A:50:LEU:CD1	1:A:60:ILE:HG23	0.51	2.35	20	3
1:A:30:ILE:HD12	1:A:86:VAL:CG2	0.51	2.36	4	4
1:A:64:LEU:CD1	1:A:70:ILE:HG23	0.51	2.35	7	2
1:A:42:ILE:HG12	1:A:70:ILE:HD11	0.51	1.82	9	1
1:A:82:ARG:O	1:A:83:SER:CB	0.51	2.59	1	1
1:A:84:ALA:O	1:A:86:VAL:HG23	0.51	2.05	14	3
1:A:72:GLU:CD	1:A:116:LEU:HD22	0.51	2.31	19	1
1:A:97:ILE:HD11	1:A:101:LYS:HG2	0.51	1.83	10	1
1:A:75:LEU:HD22	1:A:102:PHE:CE2	0.51	2.41	11	2
1:A:151:ALA:HB1	1:A:163:MET:HE2	0.51	1.82	14	2
1:A:165:ILE:HG21	1:A:167:ILE:HD12	0.50	1.82	17	1
1:A:75:LEU:HD13	1:A:102:PHE:CE2	0.50	2.41	20	2
1:A:191:GLU:CG	1:A:198:ALA:HB3	0.50	2.37	16	1
1:A:61:LEU:HD23	1:A:131:VAL:HG21	0.50	1.84	9	1
1:A:142:ARG:HG2	1:A:176:VAL:CG1	0.50	2.35	12	1
1:A:50:LEU:C	1:A:51:ILE:HG22	0.50	2.32	13	3
1:A:139:VAL:HG21	1:A:182:THR:HG23	0.50	1.83	16	2
1:A:42:ILE:HD11	1:A:47:VAL:HG22	0.50	1.82	7	4
1:A:136:PHE:CD1	1:A:137:LEU:N	0.50	2.79	13	1
1:A:203:ILE:HG22	1:A:205:VAL:HG13	0.50	1.83	13	1
1:A:29:LEU:CD2	1:A:94:VAL:HG21	0.50	2.37	16	2
1:A:50:LEU:HD22	1:A:50:LEU:H	0.50	1.65	12	8
1:A:42:ILE:CD1	1:A:47:VAL:HG22	0.50	2.37	7	5
1:A:50:LEU:N	1:A:50:LEU:CD1	0.50	2.75	16	4
1:A:84:ALA:O	1:A:85:TRP:C	0.50	2.55	18	2
1:A:126:VAL:HG11	1:A:130:LYS:HB2	0.50	1.84	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:27:SER:O	1:A:29:LEU:HD12	0.49	2.07	19	3
1:A:153:GLN:CB	1:A:154:PRO:CD	0.49	2.90	17	1
1:A:23:TYR:HB2	1:A:29:LEU:HD21	0.49	1.83	18	1
1:A:60:ILE:HB	1:A:175:ILE:HG23	0.49	1.85	12	5
1:A:198:ALA:HB1	1:A:203:ILE:HD12	0.49	1.84	20	3
1:A:30:ILE:HD13	1:A:82:ARG:HD2	0.49	1.83	4	1
1:A:90:THR:O	1:A:92:CYS:N	0.49	2.45	5	1
1:A:130:LYS:HA	1:A:133:ASN:OD1	0.49	2.07	10	1
1:A:139:VAL:O	1:A:140:THR:CG2	0.49	2.60	10	1
1:A:15:LEU:HD22	1:A:20:ILE:HG12	0.49	1.85	16	1
1:A:132:GLY:C	1:A:133:ASN:CG	0.49	2.80	3	4
1:A:142:ARG:CD	1:A:176:VAL:HG12	0.49	2.36	6	1
1:A:143:ILE:CG2	1:A:176:VAL:HG11	0.49	2.37	12	1
1:A:75:LEU:HD11	1:A:103:ARG:HG2	0.49	1.84	13	1
1:A:72:GLU:OE2	1:A:73:LEU:HD22	0.49	2.07	16	1
1:A:65:ASN:O	1:A:66:GLN:C	0.49	2.56	3	13
1:A:41:TYR:C	1:A:94:VAL:HG13	0.49	2.32	8	1
1:A:50:LEU:O	1:A:51:ILE:HG22	0.49	2.08	13	2
1:A:39:LEU:HD23	1:A:102:PHE:CD1	0.49	2.43	3	5
1:A:148:LEU:HD22	1:A:209:ARG:N	0.49	2.23	9	3
1:A:37:GLU:O	1:A:37:GLU:CG	0.49	2.60	19	1
1:A:130:LYS:O	1:A:131:VAL:C	0.49	2.55	13	4
1:A:59:MET:HE1	1:A:134:LEU:CD1	0.48	2.38	19	2
1:A:147:LEU:HB3	1:A:203:ILE:HG21	0.48	1.86	17	1
1:A:15:LEU:HD21	1:A:43:VAL:CG2	0.48	2.38	3	2
1:A:157:MET:HE3	1:A:164:GLN:OE1	0.48	2.08	6	1
1:A:75:LEU:HD13	1:A:99:TYR:CD1	0.48	2.44	12	2
1:A:137:LEU:HD12	1:A:138:ASP:N	0.48	2.23	13	1
1:A:49:VAL:O	1:A:61:LEU:N	0.48	2.46	1	10
1:A:124:LEU:HD22	1:A:125:GLN:N	0.48	2.24	5	1
1:A:51:ILE:HG23	1:A:61:LEU:HB2	0.48	1.86	17	2
1:A:61:LEU:HD22	1:A:124:LEU:CD2	0.48	2.39	13	1
1:A:70:ILE:CG2	1:A:86:VAL:HG22	0.48	2.39	14	1
1:A:89:LYS:O	1:A:90:THR:HG23	0.48	2.08	16	3
1:A:190:LEU:HD12	1:A:191:GLU:N	0.48	2.23	8	3
1:A:61:LEU:HD23	1:A:61:LEU:O	0.48	2.09	10	2
1:A:72:GLU:HG3	1:A:116:LEU:HD11	0.48	1.85	8	1
1:A:49:VAL:CG2	1:A:64:LEU:HD21	0.48	2.38	19	2
1:A:143:ILE:CA	1:A:176:VAL:HG11	0.48	2.38	6	1
1:A:72:GLU:CD	1:A:116:LEU:HD11	0.48	2.34	8	1
1:A:47:VAL:CG2	1:A:64:LEU:HD12	0.48	2.39	14	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:126:VAL:HG22	1:A:152:LYS:HG3	0.47	1.85	10	1
1:A:30:ILE:CG2	1:A:31:HIS:N	0.47	2.77	11	1
1:A:75:LEU:HD21	1:A:116:LEU:HD21	0.47	1.85	15	1
1:A:150:LEU:HB2	1:A:165:ILE:HD13	0.47	1.86	9	3
1:A:49:VAL:O	1:A:50:LEU:HD13	0.47	2.08	9	1
1:A:61:LEU:HD22	1:A:124:LEU:HD23	0.47	1.86	13	1
1:A:134:LEU:HD12	1:A:135:ALA:H	0.47	1.69	8	4
1:A:149:ASN:OD1	1:A:150:LEU:HD12	0.47	2.09	17	1
1:A:30:ILE:HG22	1:A:31:HIS:N	0.47	2.25	18	2
1:A:23:TYR:CZ	1:A:29:LEU:HD23	0.47	2.45	20	1
1:A:13:TRP:CZ2	1:A:105:LEU:HD23	0.47	2.43	1	1
1:A:47:VAL:HG21	1:A:64:LEU:HD12	0.47	1.85	14	3
1:A:150:LEU:HD11	1:A:175:ILE:CD1	0.47	2.40	11	1
1:A:126:VAL:CB	1:A:131:VAL:HG22	0.47	2.40	12	1
1:A:148:LEU:O	1:A:152:LYS:HD2	0.47	2.09	17	1
1:A:59:MET:HE2	1:A:134:LEU:HD23	0.47	1.85	18	1
1:A:62:SER:CB	1:A:131:VAL:HG12	0.47	2.40	6	2
1:A:137:LEU:C	1:A:137:LEU:CD2	0.47	2.82	10	1
1:A:31:HIS:CD2	1:A:83:SER:HA	0.47	2.44	11	1
1:A:75:LEU:HD11	1:A:103:ARG:CG	0.47	2.39	13	1
1:A:30:ILE:HG22	1:A:84:ALA:CB	0.47	2.39	14	1
1:A:14:PHE:CE1	1:A:97:ILE:HD13	0.47	2.45	16	1
1:A:40:TYR:HB3	1:A:94:VAL:CG1	0.47	2.39	20	2
1:A:63:TYR:OH	1:A:175:ILE:HD11	0.47	2.10	8	1
1:A:126:VAL:HG11	1:A:130:LYS:CG	0.47	2.40	8	1
1:A:20:ILE:HG23	1:A:95:ALA:CA	0.47	2.39	16	1
1:A:152:LYS:O	1:A:152:LYS:CG	0.47	2.63	17	1
1:A:123:ARG:O	1:A:131:VAL:CG2	0.46	2.64	19	1
1:A:106:ILE:HD12	1:A:113:LEU:HB2	0.46	1.86	10	2
1:A:148:LEU:HD13	1:A:208:THR:HG23	0.46	1.87	11	1
1:A:30:ILE:HD11	1:A:40:TYR:CB	0.46	2.40	18	1
1:A:39:LEU:HD22	1:A:102:PHE:CG	0.46	2.46	9	1
1:A:62:SER:CB	1:A:131:VAL:HG13	0.46	2.41	10	2
1:A:149:ASN:O	1:A:153:GLN:HB2	0.46	2.10	17	1
1:A:136:PHE:O	1:A:137:LEU:CB	0.46	2.62	13	1
1:A:198:ALA:HB1	1:A:203:ILE:CD1	0.46	2.41	16	3
1:A:23:TYR:HE1	1:A:29:LEU:HD21	0.46	1.67	5	1
1:A:124:LEU:HD13	1:A:124:LEU:H	0.46	1.70	5	1
1:A:150:LEU:O	1:A:156:ALA:HB2	0.46	2.10	17	1
1:A:85:TRP:CD2	1:A:85:TRP:N	0.46	2.82	14	1
1:A:167:ILE:O	1:A:167:ILE:HD13	0.45	2.10	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:150:LEU:HD13	1:A:165:ILE:CD1	0.45	2.24	4	1
1:A:72:GLU:HB2	1:A:116:LEU:HD21	0.45	1.88	8	2
1:A:130:LYS:NZ	1:A:175:ILE:HG23	0.45	2.27	11	1
1:A:151:ALA:CB	1:A:163:MET:HE3	0.45	2.41	16	1
1:A:124:LEU:HD13	1:A:124:LEU:N	0.45	2.26	5	1
1:A:116:LEU:HD12	1:A:116:LEU:C	0.45	2.36	20	4
1:A:168:THR:O	1:A:172:ILE:N	0.45	2.48	3	3
1:A:50:LEU:HD21	1:A:87:ARG:HB2	0.45	1.89	14	2
1:A:124:LEU:C	1:A:124:LEU:CD2	0.45	2.90	5	1
1:A:59:MET:O	1:A:59:MET:HG3	0.45	2.03	10	2
1:A:140:THR:HA	1:A:143:ILE:HD11	0.45	1.88	10	1
1:A:11:LEU:O	1:A:15:LEU:HD12	0.45	2.11	3	1
1:A:69:PHE:HB2	1:A:116:LEU:HD13	0.45	1.87	20	2
1:A:148:LEU:HD22	1:A:208:THR:CG2	0.45	2.42	16	1
1:A:61:LEU:HD22	1:A:131:VAL:CG1	0.45	2.42	4	1
1:A:124:LEU:C	1:A:131:VAL:HG21	0.45	2.36	11	1
1:A:48:ALA:HB2	1:A:63:TYR:CD1	0.45	2.46	12	1
1:A:29:LEU:HD12	1:A:29:LEU:N	0.45	2.27	14	1
1:A:196:ILE:HD13	1:A:205:VAL:HG12	0.45	1.87	14	1
1:A:20:ILE:O	1:A:21:HIS:HB3	0.45	2.11	20	2
1:A:151:ALA:HB1	1:A:163:MET:HG3	0.45	1.87	17	1
1:A:28:THR:HG23	1:A:87:ARG:HG2	0.45	1.89	2	1
1:A:131:VAL:CG2	1:A:132:GLY:N	0.45	2.80	12	1
1:A:73:LEU:HD12	1:A:83:SER:CB	0.45	2.42	14	1
1:A:134:LEU:HD13	1:A:134:LEU:N	0.45	2.27	20	2
1:A:173:GLY:O	1:A:178:CYS:O	0.44	2.35	12	1
1:A:30:ILE:HG22	1:A:31:HIS:H	0.44	1.72	6	1
1:A:42:ILE:HD11	1:A:47:VAL:CG2	0.44	2.42	7	4
1:A:130:LYS:C	1:A:132:GLY:H	0.44	2.21	7	1
1:A:130:LYS:C	1:A:132:GLY:N	0.44	2.75	7	1
1:A:59:MET:HE3	1:A:60:ILE:O	0.44	2.13	5	1
1:A:7:THR:HG21	1:A:11:LEU:CD2	0.44	2.42	3	2
1:A:142:ARG:CG	1:A:176:VAL:HG13	0.44	2.43	7	1
1:A:134:LEU:CD1	1:A:135:ALA:N	0.44	2.80	9	1
1:A:172:ILE:HG22	1:A:183:VAL:HG11	0.44	1.88	12	1
1:A:49:VAL:HG21	1:A:64:LEU:HD21	0.44	1.89	5	2
1:A:106:ILE:HA	1:A:112:ILE:HG22	0.44	1.89	5	3
1:A:143:ILE:HG21	1:A:183:VAL:HG13	0.44	1.89	13	2
1:A:87:ARG:O	1:A:88:ALA:C	0.44	2.59	11	1
1:A:173:GLY:HA2	1:A:176:VAL:HG23	0.44	1.89	12	1
1:A:126:VAL:HG21	1:A:152:LYS:HD3	0.44	1.89	18	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:126:VAL:CG1	1:A:130:LYS:HB2	0.44	2.42	9	1
1:A:13:TRP:CZ2	1:A:105:LEU:HD22	0.44	2.48	19	3
1:A:130:LYS:CE	1:A:175:ILE:HG22	0.44	2.43	12	1
1:A:168:THR:HG23	1:A:170:GLN:H	0.43	1.73	7	3
1:A:60:ILE:HD12	1:A:175:ILE:HG12	0.43	1.90	3	1
1:A:153:GLN:HB3	1:A:154:PRO:HD3	0.43	1.90	17	1
1:A:126:VAL:HG11	1:A:130:LYS:HG3	0.43	1.90	8	1
1:A:29:LEU:CD1	1:A:86:VAL:HG12	0.43	2.42	11	1
1:A:151:ALA:HB2	1:A:163:MET:SD	0.43	2.53	12	1
1:A:49:VAL:O	1:A:49:VAL:HG12	0.43	2.12	14	1
1:A:149:ASN:CG	1:A:150:LEU:N	0.43	2.76	14	1
1:A:120:MET:O	1:A:124:LEU:HD12	0.43	2.14	18	1
1:A:75:LEU:CD2	1:A:116:LEU:HD21	0.43	2.44	19	1
1:A:125:GLN:O	1:A:125:GLN:CG	0.43	2.67	12	1
1:A:142:ARG:O	1:A:145:GLN:N	0.43	2.50	12	1
1:A:200:GLY:O	1:A:201:LYS:C	0.43	2.62	6	9
1:A:126:VAL:HG21	1:A:152:LYS:CE	0.43	2.44	8	1
1:A:130:LYS:CD	1:A:175:ILE:HG22	0.43	2.42	12	1
1:A:134:LEU:N	1:A:134:LEU:CD1	0.43	2.80	17	1
1:A:196:ILE:HG23	1:A:205:VAL:HG12	0.43	1.86	7	1
1:A:51:ILE:HG22	1:A:84:ALA:HA	0.43	1.90	10	2
1:A:145:GLN:HA	1:A:148:LEU:HD12	0.43	1.90	10	1
1:A:137:LEU:HD23	1:A:139:VAL:O	0.43	2.14	3	1
1:A:73:LEU:HD23	1:A:82:ARG:NH2	0.43	2.29	4	1
1:A:122:ARG:O	1:A:126:VAL:CA	0.43	2.67	5	3
1:A:23:TYR:CD1	1:A:29:LEU:HD23	0.43	2.48	11	1
1:A:144:ALA:HB3	1:A:145:GLN:NE2	0.43	2.28	8	1
1:A:150:LEU:HD11	1:A:172:ILE:CD1	0.43	2.44	9	1
1:A:70:ILE:CD1	1:A:94:VAL:HG11	0.43	2.43	14	1
1:A:63:TYR:C	1:A:64:LEU:HD23	0.43	2.39	1	3
1:A:42:ILE:HG12	1:A:94:VAL:HG22	0.43	1.91	19	3
1:A:39:LEU:HD12	1:A:40:TYR:H	0.43	1.74	13	1
1:A:83:SER:O	1:A:84:ALA:CB	0.43	2.66	13	1
1:A:49:VAL:C	1:A:50:LEU:HD22	0.42	2.39	18	1
1:A:39:LEU:HD13	1:A:72:GLU:HG2	0.42	1.89	19	1
1:A:75:LEU:HB2	1:A:99:TYR:CE1	0.42	2.49	19	1
1:A:168:THR:HG23	1:A:169:ARG:N	0.42	2.29	10	4
1:A:134:LEU:N	1:A:134:LEU:HD12	0.42	2.28	18	1
1:A:24:PRO:HA	1:A:91:ALA:HA	0.42	1.89	5	1
1:A:172:ILE:O	1:A:176:VAL:HG22	0.42	2.15	12	1
1:A:38:THR:HG23	1:A:97:ILE:O	0.42	2.14	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:148:LEU:HD22	1:A:208:THR:HA	0.42	1.91	18	1
1:A:88:ALA:HB1	1:A:92:CYS:SG	0.42	2.55	20	1
1:A:14:PHE:HD1	1:A:105:LEU:HD12	0.42	1.74	16	1
1:A:42:ILE:HG22	1:A:66:GLN:HA	0.42	1.91	17	1
1:A:17:HIS:CD2	1:A:105:LEU:HD11	0.42	2.49	1	1
1:A:72:GLU:OE2	1:A:116:LEU:HD21	0.42	2.14	1	1
1:A:136:PHE:O	1:A:137:LEU:HD12	0.42	2.14	5	1
1:A:30:ILE:CD1	1:A:70:ILE:HG22	0.42	2.44	9	2
1:A:150:LEU:HD13	1:A:167:ILE:CD1	0.42	2.44	18	2
1:A:138:ASP:O	1:A:139:VAL:O	0.42	2.36	12	1
1:A:122:ARG:C	1:A:124:LEU:N	0.42	2.77	15	1
1:A:59:MET:CE	1:A:134:LEU:HD13	0.42	2.45	19	1
1:A:64:LEU:HD12	1:A:70:ILE:HG23	0.42	1.90	8	1
1:A:60:ILE:HG22	1:A:130:LYS:CE	0.42	2.45	16	1
1:A:133:ASN:C	1:A:142:ARG:HD2	0.42	2.39	18	1
1:A:15:LEU:HD21	1:A:41:TYR:HD2	0.42	1.74	16	1
1:A:41:TYR:HB3	1:A:95:ALA:HB3	0.42	1.92	20	1
1:A:196:ILE:HG12	1:A:205:VAL:HG12	0.42	1.92	20	1
1:A:39:LEU:HD13	1:A:72:GLU:HA	0.42	1.92	10	1
1:A:131:VAL:HG23	1:A:132:GLY:N	0.42	2.30	17	2
1:A:50:LEU:HB2	1:A:85:TRP:HB2	0.42	1.91	18	2
1:A:75:LEU:HB2	1:A:99:TYR:CD1	0.42	2.50	19	1
1:A:130:LYS:C	1:A:134:LEU:HD11	0.42	2.39	20	1
1:A:196:ILE:HD11	1:A:209:ARG:O	0.42	2.14	16	1
1:A:40:TYR:HA	1:A:95:ALA:O	0.42	2.15	1	1
1:A:18:CYS:CB	1:A:95:ALA:HB1	0.42	2.45	11	1
1:A:20:ILE:HG22	1:A:93:GLU:O	0.42	2.15	16	1
1:A:130:LYS:CE	1:A:175:ILE:HG21	0.42	2.44	19	1
1:A:120:MET:HB2	1:A:124:LEU:HD12	0.41	1.90	13	1
1:A:166:LYS:C	1:A:167:ILE:CG2	0.41	2.93	3	4
1:A:42:ILE:HD12	1:A:68:ASP:HB2	0.41	1.91	5	2
1:A:124:LEU:O	1:A:125:GLN:HB3	0.41	2.13	12	1
1:A:122:ARG:O	1:A:126:VAL:HG12	0.41	2.15	19	1
1:A:29:LEU:HD22	1:A:94:VAL:CG2	0.41	2.44	9	1
1:A:51:ILE:HA	1:A:85:TRP:CZ3	0.41	2.50	14	1
1:A:206:TYR:O	1:A:207:GLY:C	0.41	2.62	1	1
1:A:61:LEU:CD2	1:A:131:VAL:HG21	0.41	2.45	9	1
1:A:130:LYS:O	1:A:134:LEU:HD23	0.41	2.16	9	1
1:A:23:TYR:O	1:A:91:ALA:HA	0.41	2.15	20	1
1:A:64:LEU:HD22	1:A:68:ASP:CG	0.41	2.41	3	1
1:A:75:LEU:HD22	1:A:102:PHE:HE2	0.41	1.74	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:51:ILE:HG22	1:A:85:TRP:CZ3	0.41	2.51	14	1
1:A:75:LEU:HD22	1:A:102:PHE:CD2	0.41	2.51	16	1
1:A:42:ILE:HD12	1:A:68:ASP:HB3	0.41	1.92	17	1
1:A:49:VAL:HA	1:A:85:TRP:O	0.41	2.15	17	1
1:A:130:LYS:HG3	1:A:175:ILE:HG22	0.41	1.93	17	1
1:A:143:ILE:CG2	1:A:176:VAL:HG21	0.41	2.46	8	1
1:A:30:ILE:HD11	1:A:40:TYR:CE2	0.41	2.50	14	1
1:A:200:GLY:C	1:A:202:THR:H	0.41	2.23	8	1
1:A:48:ALA:O	1:A:50:LEU:HD22	0.41	2.15	9	1
1:A:120:MET:CB	1:A:124:LEU:HD12	0.41	2.45	13	1
1:A:49:VAL:HG12	1:A:61:LEU:CB	0.41	2.45	14	1
1:A:51:ILE:HA	1:A:85:TRP:HE3	0.41	1.74	14	1
1:A:59:MET:HE2	1:A:60:ILE:O	0.41	2.16	19	1
1:A:14:PHE:CD1	1:A:112:ILE:HD11	0.41	2.50	20	1
1:A:146:THR:HG23	1:A:175:ILE:HG21	0.41	1.93	11	1
1:A:106:ILE:HG22	1:A:112:ILE:HG21	0.41	1.93	19	1
1:A:139:VAL:O	1:A:140:THR:CB	0.40	2.69	8	1
1:A:50:LEU:O	1:A:85:TRP:HE3	0.40	1.99	11	1
1:A:121:ALA:O	1:A:122:ARG:HB3	0.40	2.16	12	1
1:A:61:LEU:HD23	1:A:61:LEU:C	0.40	2.42	13	1
1:A:61:LEU:C	1:A:61:LEU:CD2	0.40	2.95	13	1
1:A:30:ILE:HD12	1:A:70:ILE:HB	0.40	1.93	18	1
1:A:60:ILE:HD11	1:A:171:GLU:OE2	0.40	2.16	3	1
1:A:143:ILE:HG22	1:A:183:VAL:HG22	0.40	1.93	9	1
1:A:23:TYR:C	1:A:25:SER:H	0.40	2.24	11	1
1:A:126:VAL:CG1	1:A:131:VAL:HG21	0.40	2.46	2	1
1:A:187:LEU:HD13	1:A:190:LEU:CD1	0.40	2.35	8	1
1:A:167:ILE:HD11	1:A:172:ILE:HD11	0.40	1.93	2	1
1:A:22:LYS:HA	1:A:93:GLU:HA	0.40	1.92	5	1
1:A:42:ILE:HG23	1:A:92:CYS:SG	0.40	2.57	5	1
1:A:134:LEU:HD12	1:A:134:LEU:N	0.40	2.31	9	1
1:A:102:PHE:O	1:A:106:ILE:HG23	0.40	2.17	16	1

6.3 Torsion angles ⓘ

6.3.1 Protein backbone ⓘ

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	182/209 (87%)	141±3 (78±2%)	27±3 (15±2%)	14±3 (8±1%)	1	14
All	All	3640/4180 (87%)	2823 (78%)	539 (15%)	278 (8%)	1	14

All 36 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	195	LEU	20
1	A	111	ASP	19
1	A	141	GLY	19
1	A	91	ALA	18
1	A	176	VAL	18
1	A	138	ASP	17
1	A	58	GLU	14
1	A	139	VAL	13
1	A	82	ARG	11
1	A	207	GLY	11
1	A	126	VAL	10
1	A	161	ASP	9
1	A	83	SER	8
1	A	130	LYS	8
1	A	133	ASN	8
1	A	37	GLU	7
1	A	208	THR	7
1	A	136	PHE	7
1	A	42	ILE	7
1	A	25	SER	6
1	A	85	TRP	6
1	A	7	THR	5
1	A	84	ALA	5
1	A	131	VAL	4
1	A	137	LEU	4
1	A	60	ILE	3
1	A	156	ALA	2
1	A	200	GLY	2
1	A	21	HIS	2
1	A	22	LYS	2
1	A	62	SER	1
1	A	122	ARG	1
1	A	125	GLN	1
1	A	153	GLN	1
1	A	154	PRO	1
1	A	20	ILE	1

6.3.2 Protein sidechains ⓘ

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	159/180 (88%)	108±5 (68±3%)	51±5 (32±3%)	1	14
All	All	3180/3600 (88%)	2167 (68%)	1013 (32%)	1	14

All 125 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	70	ILE	20
1	A	176	VAL	20
1	A	190	LEU	20
1	A	195	LEU	20
1	A	201	LYS	20
1	A	60	ILE	19
1	A	106	ILE	19
1	A	175	ILE	19
1	A	188	LYS	18
1	A	22	LYS	17
1	A	116	LEU	17
1	A	14	PHE	16
1	A	28	THR	16
1	A	111	ASP	16
1	A	134	LEU	16
1	A	158	THR	16
1	A	185	ARG	16
1	A	130	LYS	16
1	A	159	HIS	15
1	A	152	LYS	14
1	A	44	LYS	14
1	A	149	ASN	14
1	A	50	LEU	13
1	A	82	ARG	13
1	A	166	LYS	13
1	A	59	MET	13
1	A	101	LYS	13
1	A	125	GLN	13
1	A	8	ASP	12

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Mol	Chain	Res	Type	Models (Total)
1	A	37	GLU	12
1	A	157	MET	12
1	A	124	LEU	12
1	A	182	THR	12
1	A	61	LEU	11
1	A	89	LYS	11
1	A	131	VAL	11
1	A	170	GLN	11
1	A	16	SER	11
1	A	161	ASP	11
1	A	189	MET	11
1	A	209	ARG	11
1	A	17	HIS	10
1	A	51	ILE	10
1	A	115	ARG	10
1	A	126	VAL	10
1	A	137	LEU	10
1	A	202	THR	10
1	A	142	ARG	9
1	A	96	GLU	9
1	A	46	SER	9
1	A	12	GLU	8
1	A	27	SER	8
1	A	168	THR	8
1	A	65	ASN	8
1	A	119	GLN	8
1	A	62	SER	8
1	A	196	ILE	8
1	A	98	SER	7
1	A	167	ILE	7
1	A	133	ASN	7
1	A	120	MET	7
1	A	100	LYS	7
1	A	153	GLN	7
1	A	179	SER	7
1	A	171	GLU	7
1	A	83	SER	6
1	A	114	MET	6
1	A	143	ILE	6
1	A	165	ILE	6
1	A	72	GLU	6
1	A	122	ARG	6

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Mol	Chain	Res	Type	Models (Total)
1	A	181	GLU	6
1	A	123	ARG	6
1	A	19	HIS	6
1	A	140	THR	6
1	A	155	ASP	6
1	A	87	ARG	6
1	A	58	GLU	6
1	A	26	LYS	5
1	A	197	SER	5
1	A	208	THR	5
1	A	25	SER	5
1	A	107	GLN	5
1	A	138	ASP	5
1	A	199	HIS	5
1	A	66	GLN	5
1	A	7	THR	5
1	A	64	LEU	5
1	A	38	THR	4
1	A	174	GLN	4
1	A	163	MET	4
1	A	205	VAL	4
1	A	104	GLN	4
1	A	21	HIS	4
1	A	169	ARG	4
1	A	18	CYS	3
1	A	145	GLN	3
1	A	31	HIS	3
1	A	75	LEU	3
1	A	93	GLU	3
1	A	180	ARG	3
1	A	178	CYS	3
1	A	150	LEU	2
1	A	92	CYS	2
1	A	30	ILE	2
1	A	191	GLU	2
1	A	29	LEU	2
1	A	136	PHE	2
1	A	192	ASP	2
1	A	47	VAL	2
1	A	94	VAL	2
1	A	103	ARG	2
1	A	15	LEU	1

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Mol	Chain	Res	Type	Models (Total)
1	A	23	TYR	1
1	A	109	ASN	1
1	A	139	VAL	1
1	A	164	GLN	1
1	A	85	TRP	1
1	A	90	THR	1
1	A	113	LEU	1
1	A	20	ILE	1
1	A	73	LEU	1
1	A	146	THR	1
1	A	193	GLN	1
1	A	39	LEU	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 12% for the well-defined parts and 13% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *T127128N_cGMP_1.str.csh*

7.1.1 Bookkeeping

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

Total number of shifts	369
Number of shifts mapped to atoms	369
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	108	0.03 ± 0.10	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	83	1.28 ± 0.14	Should be checked
$^{13}\text{C}'$	60	-0.23 ± 0.14	None needed (< 0.5 ppm)
^{15}N	118	0.08 ± 0.35	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 12%, i.e. 301 atoms were assigned a chemical shift out of a possible 2596. 0 out of 34 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	232/917 (25%)	0/373 (0%)	138/366 (38%)	94/178 (53%)
Sidechain	69/1519 (5%)	0/996 (0%)	69/463 (15%)	0/60 (0%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	0/160 (0%)	0/80 (0%)	0/72 (0%)	0/8 (0%)
Overall	301/2596 (12%)	0/1449 (0%)	207/901 (23%)	94/246 (38%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 13%, i.e. 369 atoms were assigned a chemical shift out of a possible 2938. 0 out of 37 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	286/1049 (27%)	0/428 (0%)	168/418 (40%)	118/203 (58%)
Sidechain	83/1719 (5%)	0/1121 (0%)	83/531 (16%)	0/67 (0%)
Aromatic	0/170 (0%)	0/85 (0%)	0/77 (0%)	0/8 (0%)
Overall	369/2938 (13%)	0/1634 (0%)	251/1026 (24%)	118/278 (42%)

7.1.4 Statistically unusual chemical shifts [i](#)

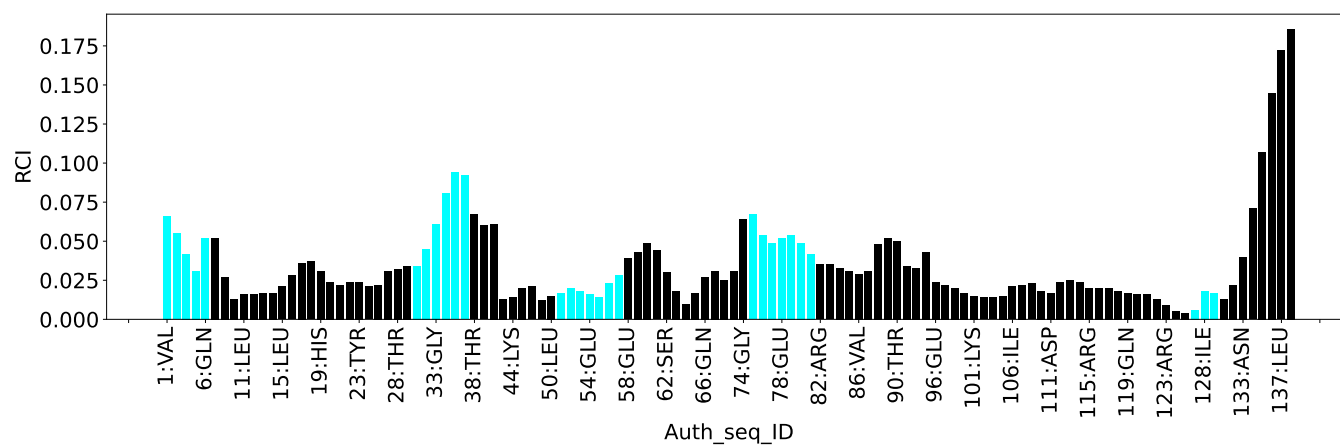
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	124	LEU	CB	31.24	33.11 – 51.34	-6.0

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

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

Random coil index (RCI) for chain A:



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	1866
Intra-residue ($ i-j =0$)	0
Sequential ($ i-j =1$)	351
Medium range ($ i-j >1$ and $ i-j <5$)	534
Long range ($ i-j \geq 5$)	981
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	8.9
Number of long range restraints per residue ¹	4.7

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	76.2	0.2
0.2-0.5 (Medium)	31.4	0.5
>0.5 (Large)	17.2	6.29

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

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

9 Distance violation analysis ⓘ

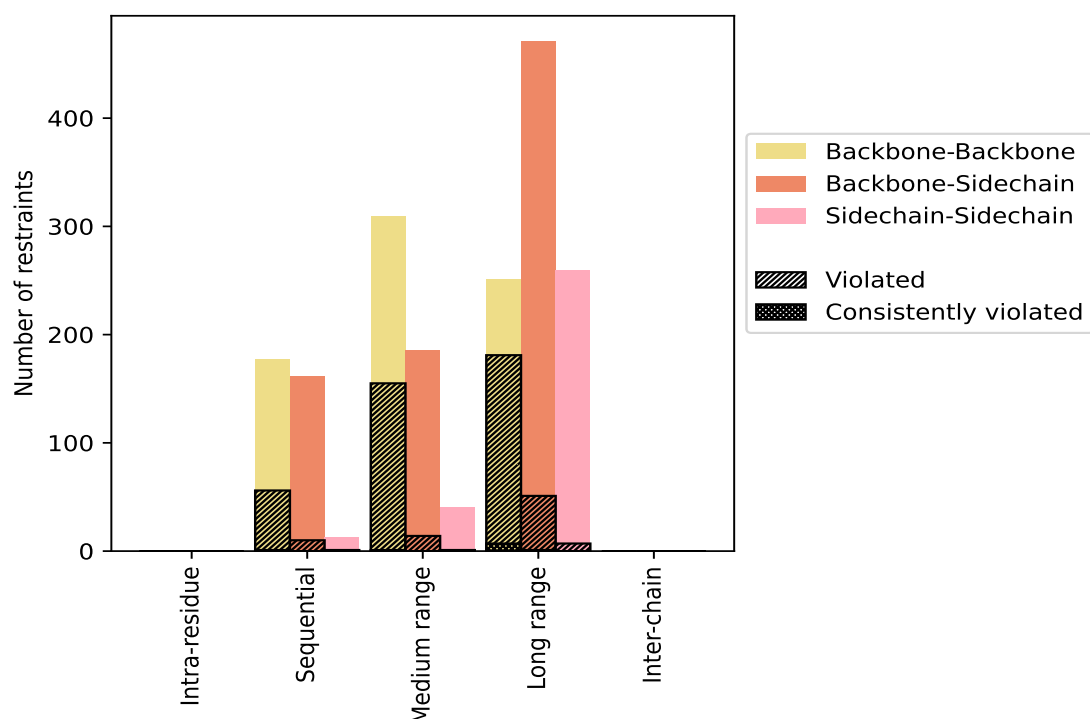
9.1 Summary of distance violations ⓘ

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue (i-j =0)	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sequential (i-j =1)	351	18.8	67	19.1	3.6	1	0.3	0.1
Backbone-Backbone	177	9.5	56	31.6	3.0	1	0.6	0.1
Backbone-Sidechain	161	8.6	10	6.2	0.5	0	0.0	0.0
Sidechain-Sidechain	13	0.7	1	7.7	0.1	0	0.0	0.0
Medium range (i-j >1 & i-j <5)	534	28.6	170	31.8	9.1	1	0.2	0.1
Backbone-Backbone	309	16.6	155	50.2	8.3	1	0.3	0.1
Backbone-Sidechain	185	9.9	14	7.6	0.8	0	0.0	0.0
Sidechain-Sidechain	40	2.1	1	2.5	0.1	0	0.0	0.0
Long range (i-j ≥5)	981	52.6	239	24.4	12.8	8	0.8	0.4
Backbone-Backbone	251	13.5	181	72.1	9.7	7	2.8	0.4
Backbone-Sidechain	471	25.2	51	10.8	2.7	1	0.2	0.1
Sidechain-Sidechain	259	13.9	7	2.7	0.4	0	0.0	0.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1866	100.0	476	25.5	25.5	10	0.5	0.5
Backbone-Backbone	737	39.5	392	53.2	21.0	9	1.2	0.5
Backbone-Sidechain	817	43.8	75	9.2	4.0	1	0.1	0.1
Sidechain-Sidechain	312	16.7	9	2.9	0.5	0	0.0	0.0

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	0	16	35	64	0	115	0.38	4.0	0.71	0.16
2	0	16	36	57	0	109	0.53	5.38	1.02	0.15
3	0	14	38	63	0	115	0.56	6.26	1.16	0.17
4	0	15	51	63	0	129	0.38	3.87	0.74	0.16
5	0	15	48	75	0	138	0.44	5.38	0.9	0.16
6	0	22	51	64	0	137	0.49	6.12	1.06	0.15
7	0	9	46	68	0	123	0.45	4.2	0.8	0.16
8	0	16	55	69	0	140	0.42	5.06	0.86	0.16
9	0	17	40	54	0	111	0.38	3.88	0.67	0.16
10	0	19	48	68	0	135	0.34	3.62	0.6	0.16

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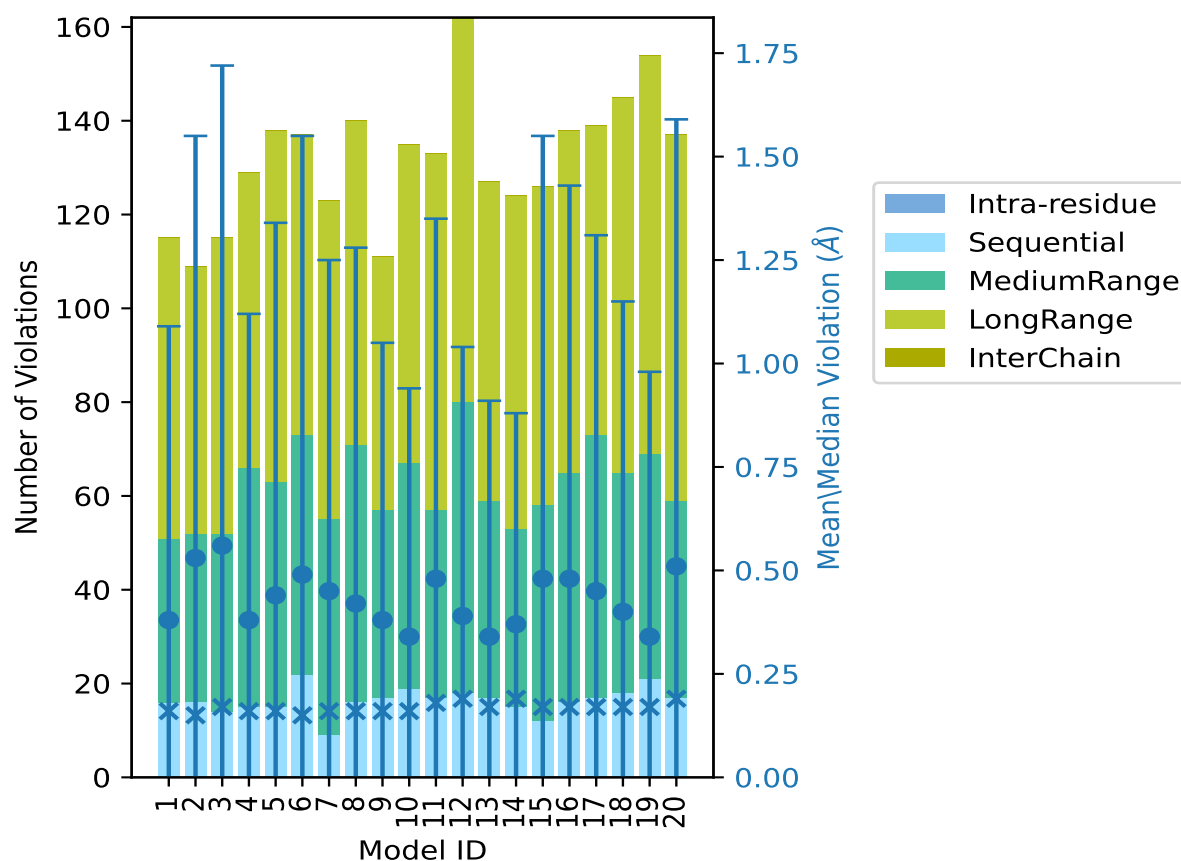
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	0	17	40	76	0	133	0.48	4.68	0.87	0.18
12	0	18	62	82	0	162	0.39	4.33	0.65	0.19
13	0	17	42	68	0	127	0.34	3.23	0.57	0.17
14	0	15	38	71	0	124	0.37	2.97	0.51	0.19
15	0	12	46	68	0	126	0.48	6.0	1.07	0.17
16	0	16	49	73	0	138	0.48	5.04	0.95	0.17
17	0	17	56	66	0	139	0.45	5.15	0.86	0.17
18	0	18	47	80	0	145	0.4	4.16	0.75	0.17
19	0	21	48	85	0	154	0.34	4.05	0.64	0.17
20	0	17	42	78	0	137	0.51	6.29	1.08	0.19

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

⁵Inter-chain restraints, ⁶Standard deviation

9.2.1 Bar graph : Distance Violation statistics for each model ⓘ



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

9.3 Distance violation statistics for the ensemble

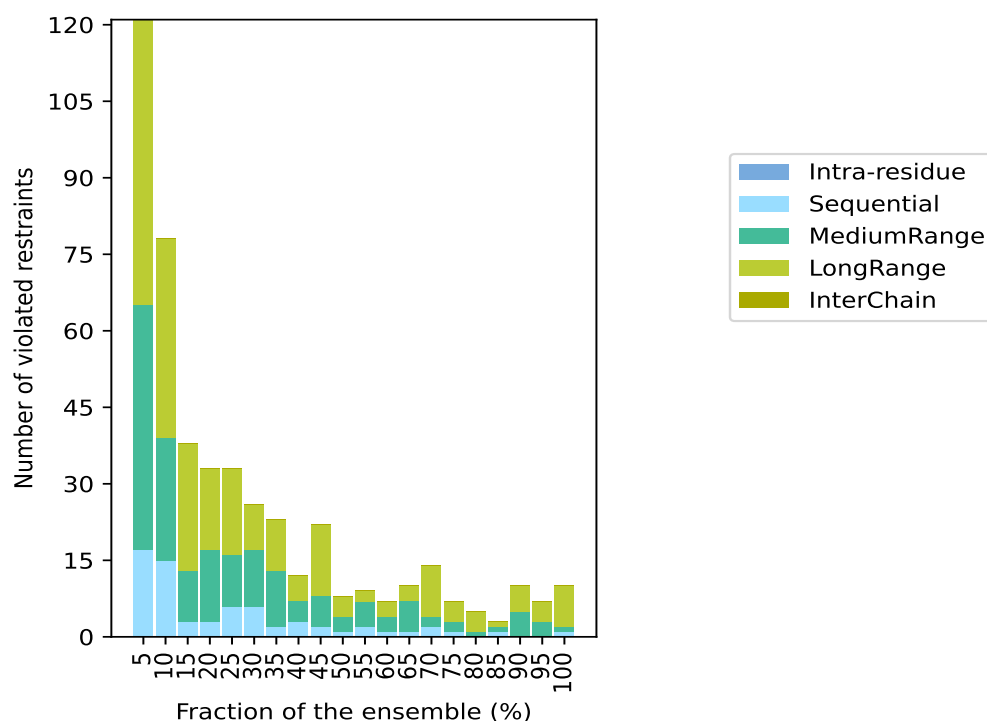
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1390(IR:0, SQ:284, MR:364, LR:742, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	17	48	56	0	121	1	5.0
0	15	24	39	0	78	2	10.0
0	3	10	25	0	38	3	15.0
0	3	14	16	0	33	4	20.0
0	6	10	17	0	33	5	25.0
0	6	11	9	0	26	6	30.0
0	2	11	10	0	23	7	35.0
0	3	4	5	0	12	8	40.0
0	2	6	14	0	22	9	45.0
0	1	3	4	0	8	10	50.0
0	2	5	2	0	9	11	55.0
0	1	3	3	0	7	12	60.0
0	1	6	3	0	10	13	65.0
0	2	2	10	0	14	14	70.0
0	1	2	4	0	7	15	75.0
0	0	1	4	0	5	16	80.0
0	1	1	1	0	3	17	85.0
0	0	5	5	0	10	18	90.0
0	0	3	4	0	7	19	95.0
0	1	1	8	0	10	20	100.0

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

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

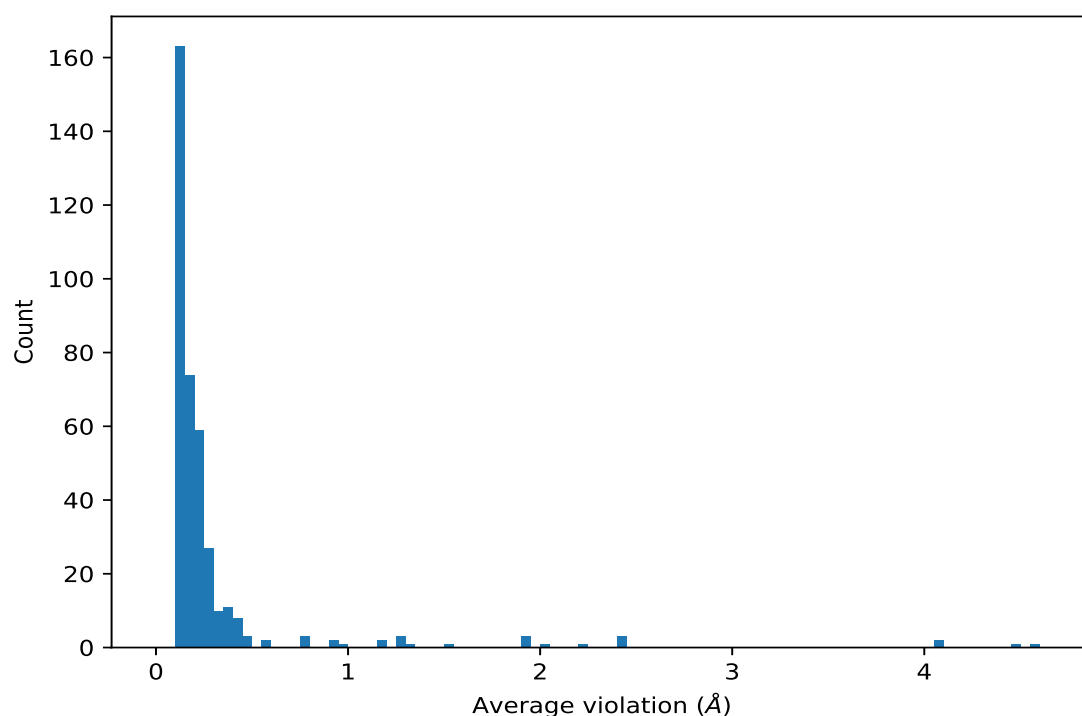
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	20	4.6	1.03	4.4
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	20	4.48	0.85	4.31
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	20	4.06	1.17	3.87
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	20	4.05	0.76	4.04
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	20	2.23	0.86	2.31
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	20	2.0	0.57	2.08
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	20	1.91	1.15	1.76
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	20	1.91	1.15	1.76
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	20	1.91	1.15	1.76
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	20	0.25	0.05	0.26
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	20	0.25	0.07	0.25
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	20	0.13	0.01	0.13
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	19	2.41	0.97	2.63
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	19	2.41	0.97	2.63
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	19	2.41	0.97	2.63
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	19	0.97	0.67	0.57

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	19	0.33	0.07	0.32
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	19	0.21	0.09	0.21
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	19	0.21	0.03	0.21
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	19	0.16	0.04	0.17
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	19	0.14	0.02	0.13
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	18	1.54	0.81	1.27
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	18	1.28	0.98	1.0
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	18	1.28	0.98	1.0
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	18	1.28	0.98	1.0
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	18	0.24	0.07	0.22
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	18	0.22	0.07	0.2
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	18	0.21	0.08	0.2
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	18	0.2	0.04	0.22
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	18	0.2	0.04	0.2
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	18	0.15	0.02	0.16
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	18	0.12	0.01	0.12
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	17	1.18	0.67	1.2
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	17	0.4	0.13	0.46
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	17	0.2	0.09	0.19
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	16	1.18	0.6	1.08
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	16	0.91	0.52	0.9
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	16	0.22	0.08	0.2
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	16	0.15	0.04	0.14
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	16	0.15	0.04	0.14
(1,352)	1:81:A:GLU:H	1:83:A:SER:H	15	0.92	0.47	0.8
(2,695)	1:125:A:GLN:H	1:132:A:GLY:H	15	0.35	0.25	0.33
(1,115)	1:37:A:GLU:H	1:82:A:ARG:H	15	0.25	0.12	0.21
(2,296)	1:46:A:SER:H	1:90:A:THR:H	15	0.17	0.05	0.16
(2,873)	1:155:A:ASP:H	1:156:A:ALA:H	15	0.17	0.05	0.15
(2,251)	1:42:A:ILE:H	1:68:A:ASP:H	15	0.14	0.04	0.12
(1,406)	1:108:A:VAL:H	1:112:A:ILE:H	15	0.13	0.01	0.12
(2,544)	1:83:A:SER:H	1:84:A:ALA:H	14	0.48	0.31	0.37
(1,97)	1:31:A:HIS:H	1:82:A:ARG:H	14	0.38	0.12	0.38
(2,426)	1:59:A:MET:H	1:85:A:TRP:HZ3	14	0.32	0.11	0.32
(1,274)	1:61:A:LEU:H	1:85:A:TRP:H	14	0.25	0.12	0.21
(1,475)	1:136:A:PHE:H	1:138:A:ASP:H	14	0.23	0.08	0.21
(2,352)	1:49:A:VAL:H	1:63:A:TYR:H	14	0.2	0.07	0.19
(1,524)	1:146:A:THR:H	1:176:A:VAL:H	14	0.19	0.07	0.17
(2,435)	1:60:A:ILE:H	1:176:A:VAL:H	14	0.19	0.05	0.2
(2,792)	1:143:A:ILE:H	1:177:A:GLY:H	14	0.16	0.05	0.15
(2,321)	1:47:A:VAL:H	1:90:A:THR:H	14	0.14	0.03	0.14
(2,773)	1:140:A:THR:H	1:186:A:ILE:H	14	0.14	0.02	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,975)	1:177:A:GLY:H	1:178:A:CYS:H	14	0.14	0.02	0.14
(2,989)	1:181:A:GLU:H	1:183:A:VAL:H	14	0.13	0.03	0.13
(2,424)	1:59:A:MET:H	1:85:A:TRP:HE3	13	0.41	0.09	0.42
(1,104)	1:32:A:GLN:H	1:50:A:LEU:H	13	0.26	0.11	0.24
(1,225)	1:50:A:LEU:H	1:59:A:MET:H	13	0.24	0.08	0.24
(2,118)	1:25:A:SER:H	1:27:A:SER:H	13	0.18	0.08	0.16
(2,576)	1:99:A:TYR:H	1:101:A:LYS:H	13	0.17	0.03	0.17
(1,305)	1:69:A:PHE:H	1:72:A:GLU:H	13	0.17	0.05	0.16
(1,72)	1:29:A:LEU:H	1:31:A:HIS:H	13	0.16	0.04	0.15
(1,292)	1:65:A:ASN:H	1:69:A:PHE:H	13	0.14	0.02	0.14
(2,807)	1:146:A:THR:H	1:148:A:LEU:H	13	0.14	0.03	0.15
(2,1119)	1:204:A:VAL:H	1:205:A:VAL:H	13	0.14	0.03	0.13
(1,90)	1:30:A:ILE:HD11	1:83:A:SER:H	12	0.78	0.46	0.56
(1,90)	1:30:A:ILE:HD12	1:83:A:SER:H	12	0.78	0.46	0.56
(1,90)	1:30:A:ILE:HD13	1:83:A:SER:H	12	0.78	0.46	0.56
(1,260)	1:59:A:MET:H	1:85:A:TRP:H	12	0.28	0.16	0.24
(2,677)	1:121:A:ALA:H	1:124:A:LEU:H	12	0.22	0.12	0.19
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE1	12	0.2	0.07	0.18
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE2	12	0.2	0.07	0.18
(1,513)	1:144:A:ALA:H	1:148:A:LEU:H	12	0.2	0.08	0.2
(2,192)	1:36:A:ALA:H	1:80:A:GLN:H	12	0.19	0.07	0.18
(2,970)	1:176:A:VAL:H	1:177:A:GLY:H	12	0.14	0.02	0.14
(1,445)	1:125:A:GLN:H	1:129:A:GLU:H	11	0.43	0.23	0.45
(2,662)	1:117:A:SER:H	1:120:A:MET:H	11	0.19	0.05	0.19
(2,511)	1:75:A:LEU:H	1:76:A:PHE:H	11	0.15	0.04	0.14
(2,882)	1:159:A:HIS:H	1:161:A:ASP:H	11	0.15	0.02	0.15
(1,650)	1:174:A:GLN:H	1:178:A:CYS:H	11	0.15	0.05	0.13
(2,774)	1:141:A:GLY:H	1:142:A:ARG:H	11	0.15	0.03	0.15
(2,55)	1:14:A:PHE:H	1:16:A:SER:H	11	0.14	0.02	0.14
(2,289)	1:44:A:LYS:H	1:94:A:VAL:H	11	0.14	0.03	0.13
(2,204)	1:39:A:LEU:H	1:97:A:ILE:H	11	0.14	0.05	0.11
(2,178)	1:32:A:GLN:H	1:86:A:VAL:H	10	0.24	0.14	0.2
(2,351)	1:49:A:VAL:H	1:61:A:LEU:H	10	0.21	0.05	0.21
(2,395)	1:51:A:ILE:H	1:85:A:TRP:H	10	0.21	0.16	0.18
(2,640)	1:113:A:LEU:H	1:117:A:SER:H	10	0.17	0.05	0.16
(2,499)	1:73:A:LEU:H	1:75:A:LEU:H	10	0.17	0.05	0.16
(2,957)	1:173:A:GLY:H	1:184:A:GLY:H	10	0.15	0.03	0.16
(2,597)	1:103:A:ARG:H	1:106:A:ILE:H	10	0.13	0.02	0.13
(2,963)	1:175:A:ILE:H	1:176:A:VAL:H	10	0.12	0.02	0.12
(2,99)	1:21:A:HIS:H	1:96:A:GLU:H	9	0.33	0.29	0.17
(1,443)	1:125:A:GLN:H	1:131:A:VAL:H	9	0.31	0.09	0.34
(1,107)	1:33:A:GLY:H	1:85:A:TRP:H	9	0.29	0.15	0.3

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,173)	1:31:A:HIS:H	1:86:A:VAL:H	9	0.22	0.14	0.19
(2,679)	1:122:A:ARG:H	1:124:A:LEU:H	9	0.2	0.07	0.18
(1,575)	1:151:A:ALA:H	1:205:A:VAL:H	9	0.2	0.12	0.13
(2,197)	1:37:A:GLU:H	1:99:A:TYR:H	9	0.18	0.1	0.15
(2,339)	1:49:A:VAL:H	1:62:A:SER:H	9	0.18	0.09	0.13
(1,106)	1:33:A:GLY:H	1:36:A:ALA:H	9	0.17	0.09	0.14
(2,929)	1:169:A:ARG:H	1:171:A:GLU:H	9	0.15	0.02	0.15
(1,647)	1:173:A:GLY:H	1:183:A:VAL:H	9	0.14	0.03	0.12
(1,140)	1:40:A:TYR:H	1:73:A:LEU:H	9	0.13	0.02	0.13
(1,308)	1:70:A:ILE:H	1:73:A:LEU:H	9	0.13	0.01	0.12
(1,310)	1:70:A:ILE:H	1:95:A:ALA:H	9	0.13	0.02	0.12
(1,585)	1:157:A:MET:H	1:159:A:HIS:H	9	0.13	0.03	0.11
(2,389)	1:51:A:ILE:H	1:85:A:TRP:HE3	9	0.12	0.03	0.11
(2,993)	1:182:A:THR:H	1:183:A:VAL:H	9	0.12	0.01	0.12
(2,283)	1:43:A:VAL:H	1:68:A:ASP:H	9	0.12	0.01	0.12
(2,1111)	1:200:A:GLY:H	1:201:A:LYS:H	9	0.11	0.01	0.12
(1,404)	1:107:A:GLN:H	1:112:A:ILE:H	9	0.11	0.01	0.11
(1,252)	1:56:A:GLY:H	1:85:A:TRP:HH2	8	0.41	0.17	0.47
(1,582)	1:155:A:ASP:H	1:157:A:MET:H	8	0.22	0.15	0.16
(2,179)	1:32:A:GLN:H	1:34:A:GLU:H	8	0.22	0.15	0.18
(1,108)	1:33:A:GLY:H	1:85:A:TRP:HH2	8	0.21	0.09	0.22
(2,506)	1:74:A:GLY:H	1:75:A:LEU:H	8	0.19	0.04	0.2
(2,309)	1:47:A:VAL:H	1:89:A:LYS:H	8	0.18	0.07	0.15
(2,432)	1:60:A:ILE:H	1:175:A:ILE:H	8	0.16	0.04	0.14
(2,368)	1:50:A:LEU:H	1:87:A:ARG:H	8	0.15	0.03	0.15
(2,91)	1:18:A:CYS:H	1:20:A:ILE:H	8	0.14	0.03	0.14
(2,498)	1:73:A:LEU:H	1:74:A:GLY:H	8	0.12	0.01	0.12
(2,680)	1:122:A:ARG:H	1:126:A:VAL:H	7	0.26	0.22	0.15
(2,372)	1:50:A:LEU:H	1:86:A:VAL:H	7	0.25	0.07	0.25
(2,408)	1:53:A:ASP:H	1:55:A:GLU:H	7	0.24	0.03	0.24
(2,138)	1:29:A:LEU:H	1:86:A:VAL:H	7	0.23	0.17	0.13
(2,736)	1:134:A:LEU:HD21	1:136:A:PHE:H	7	0.2	0.06	0.21
(2,736)	1:134:A:LEU:HD22	1:136:A:PHE:H	7	0.2	0.06	0.21
(2,736)	1:134:A:LEU:HD23	1:136:A:PHE:H	7	0.2	0.06	0.21
(2,420)	1:59:A:MET:H	1:60:A:ILE:H	7	0.19	0.08	0.16
(2,744)	1:138:A:ASP:H	1:139:A:VAL:H	7	0.19	0.09	0.15
(2,230)	1:40:A:TYR:H	1:97:A:ILE:H	7	0.19	0.06	0.2
(2,648)	1:114:A:MET:H	1:118:A:ALA:H	7	0.17	0.05	0.16
(2,476)	1:69:A:PHE:H	1:119:A:GLN:H	7	0.17	0.05	0.19
(1,402)	1:107:A:GLN:H	1:113:A:LEU:H	7	0.16	0.02	0.17
(1,583)	1:156:A:ALA:H	1:166:A:LYS:H	7	0.16	0.03	0.15
(1,41)	1:18:A:CYS:H	1:96:A:GLU:H	7	0.16	0.06	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,387)	1:51:A:ILE:H	1:59:A:MET:H	7	0.15	0.04	0.16
(1,376)	1:100:A:LYS:H	1:104:A:GLN:H	7	0.15	0.04	0.15
(1,666)	1:178:A:CYS:H	1:182:A:THR:H	7	0.14	0.04	0.13
(1,502)	1:143:A:ILE:H	1:178:A:CYS:H	7	0.14	0.03	0.14
(2,771)	1:140:A:THR:H	1:142:A:ARG:H	7	0.13	0.03	0.13
(2,781)	1:142:A:ARG:H	1:144:A:ALA:H	7	0.13	0.03	0.11
(1,638)	1:171:A:GLU:H	1:175:A:ILE:H	7	0.12	0.01	0.13
(1,658)	1:175:A:ILE:H	1:177:A:GLY:H	7	0.12	0.02	0.12
(2,1112)	1:200:A:GLY:H	1:204:A:VAL:H	7	0.12	0.01	0.12
(1,176)	1:44:A:LYS:H	1:92:A:CYS:H	7	0.11	0.01	0.11
(2,110)	1:23:A:TYR:H	1:93:A:GLU:H	6	0.4	0.28	0.26
(2,708)	1:127:A:LEU:HD11	1:128:A:ILE:H	6	0.37	0.15	0.33
(2,708)	1:127:A:LEU:HD12	1:128:A:ILE:H	6	0.37	0.15	0.33
(2,708)	1:127:A:LEU:HD13	1:128:A:ILE:H	6	0.37	0.15	0.33
(2,176)	1:32:A:GLN:H	1:85:A:TRP:HE3	6	0.34	0.19	0.35
(1,114)	1:37:A:GLU:H	1:39:A:LEU:H	6	0.27	0.05	0.24
(2,406)	1:53:A:ASP:H	1:57:A:LYS:H	6	0.25	0.14	0.2
(2,121)	1:26:A:LYS:H	1:27:A:SER:H	6	0.23	0.04	0.23
(1,538)	1:147:A:LEU:H	1:151:A:ALA:H	6	0.23	0.09	0.19
(2,417)	1:56:A:GLY:H	1:57:A:LYS:H	6	0.2	0.05	0.2
(1,356)	1:85:A:TRP:H	1:87:A:ARG:H	6	0.2	0.06	0.2
(1,521)	1:146:A:THR:H	1:150:A:LEU:H	6	0.19	0.06	0.18
(2,123)	1:26:A:LYS:H	1:88:A:ALA:H	6	0.16	0.06	0.13
(2,131)	1:29:A:LEU:H	1:30:A:ILE:H	6	0.15	0.04	0.15
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD11	6	0.15	0.06	0.12
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD12	6	0.15	0.06	0.12
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD13	6	0.15	0.06	0.12
(2,287)	1:44:A:LYS:H	1:67:A:GLY:H	6	0.14	0.05	0.12
(2,777)	1:141:A:GLY:H	1:144:A:ALA:H	6	0.14	0.05	0.12
(2,801)	1:144:A:ALA:H	1:147:A:LEU:H	6	0.14	0.06	0.12
(1,178)	1:45:A:GLY:H	1:92:A:CYS:H	6	0.14	0.03	0.14
(2,220)	1:39:A:LEU:H	1:102:A:PHE:H	6	0.14	0.02	0.14
(2,604)	1:105:A:LEU:H	1:108:A:VAL:H	6	0.14	0.04	0.12
(2,304)	1:47:A:VAL:H	1:64:A:LEU:H	6	0.14	0.03	0.12
(1,664)	1:177:A:GLY:H	1:179:A:SER:H	6	0.14	0.02	0.14
(2,876)	1:157:A:MET:H	1:164:A:GLN:H	6	0.13	0.02	0.12
(2,1100)	1:198:A:ALA:H	1:199:A:HIS:H	6	0.13	0.03	0.12
(1,52)	1:21:A:HIS:H	1:23:A:TYR:H	6	0.12	0.01	0.12
(2,107)	1:23:A:TYR:H	1:92:A:CYS:H	5	0.41	0.32	0.2
(1,458)	1:129:A:GLU:H	1:133:A:ASN:H	5	0.39	0.07	0.4
(1,239)	1:51:A:ILE:HD11	1:60:A:ILE:H	5	0.37	0.08	0.36
(1,239)	1:51:A:ILE:HD12	1:60:A:ILE:H	5	0.37	0.08	0.36

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,239)	1:51:A:ILE:HD13	1:60:A:ILE:H	5	0.37	0.08	0.36
(2,185)	1:33:A:GLY:H	1:84:A:ALA:H	5	0.33	0.18	0.33
(1,504)	1:143:A:ILE:H	1:176:A:VAL:H	5	0.33	0.21	0.22
(1,62)	1:23:A:TYR:H	1:44:A:LYS:H	5	0.32	0.17	0.26
(2,367)	1:50:A:LEU:H	1:85:A:TRP:H	5	0.25	0.07	0.23
(2,536)	1:77:A:GLU:H	1:78:A:GLU:H	5	0.24	0.06	0.26
(2,167)	1:30:A:ILE:H	1:87:A:ARG:H	5	0.22	0.05	0.21
(2,400)	1:52:A:LYS:H	1:85:A:TRP:HZ3	5	0.19	0.05	0.19
(2,516)	1:75:A:LEU:H	1:77:A:GLU:H	5	0.18	0.05	0.18
(2,207)	1:39:A:LEU:H	1:99:A:TYR:H	5	0.18	0.03	0.17
(1,708)	1:191:A:GLU:H	1:200:A:GLY:H	5	0.18	0.05	0.17
(1,247)	1:52:A:LYS:H	1:56:A:GLY:H	5	0.17	0.05	0.19
(2,392)	1:51:A:ILE:H	1:60:A:ILE:H	5	0.17	0.03	0.18
(1,103)	1:32:A:GLN:H	1:82:A:ARG:H	5	0.16	0.05	0.17
(2,799)	1:144:A:ALA:H	1:146:A:THR:H	5	0.16	0.04	0.14
(2,335)	1:48:A:ALA:H	1:64:A:LEU:H	5	0.16	0.02	0.16
(2,422)	1:59:A:MET:HE1	1:60:A:ILE:H	5	0.15	0.05	0.13
(2,422)	1:59:A:MET:HE2	1:60:A:ILE:H	5	0.15	0.05	0.13
(2,422)	1:59:A:MET:HE3	1:60:A:ILE:H	5	0.15	0.05	0.13
(2,555)	1:88:A:ALA:H	1:90:A:THR:H	5	0.15	0.03	0.14
(2,824)	1:147:A:LEU:H	1:150:A:LEU:H	5	0.15	0.02	0.16
(2,806)	1:146:A:THR:H	1:147:A:LEU:H	5	0.14	0.03	0.13
(2,440)	1:61:A:LEU:H	1:62:A:SER:H	5	0.13	0.03	0.12
(2,867)	1:151:A:ALA:H	1:153:A:GLN:H	5	0.13	0.04	0.11
(1,10)	1:12:A:GLU:H	1:16:A:SER:H	5	0.12	0.01	0.13
(2,437)	1:60:A:ILE:H	1:174:A:GLN:H	5	0.12	0.02	0.11
(1,506)	1:143:A:ILE:H	1:147:A:LEU:H	5	0.12	0.02	0.11
(2,145)	1:29:A:LEU:H	1:87:A:ARG:H	5	0.12	0.03	0.11
(2,880)	1:159:A:HIS:H	1:162:A:GLY:H	5	0.12	0.01	0.12
(2,235)	1:41:A:TYR:H	1:95:A:ALA:H	5	0.11	0.01	0.11
(2,731)	1:134:A:LEU:HD21	1:135:A:ALA:H	5	0.11	0.01	0.11
(2,731)	1:134:A:LEU:HD22	1:135:A:ALA:H	5	0.11	0.01	0.11
(2,731)	1:134:A:LEU:HD23	1:135:A:ALA:H	5	0.11	0.01	0.11
(2,1114)	1:202:A:THR:H	1:203:A:ILE:H	5	0.11	0.0	0.11
(2,193)	1:36:A:ALA:H	1:81:A:GLU:H	4	1.31	0.31	1.4
(2,186)	1:33:A:GLY:H	1:83:A:SER:H	4	0.6	0.31	0.62
(1,441)	1:124:A:LEU:H	1:132:A:GLY:H	4	0.41	0.27	0.34
(2,174)	1:31:A:HIS:H	1:34:A:GLU:H	4	0.37	0.18	0.34
(2,136)	1:29:A:LEU:H	1:88:A:ALA:H	4	0.29	0.08	0.3
(2,157)	1:30:A:ILE:H	1:86:A:VAL:H	4	0.29	0.25	0.15
(1,461)	1:130:A:LYS:H	1:146:A:THR:H	4	0.27	0.14	0.26
(2,301)	1:46:A:SER:H	1:91:A:ALA:H	4	0.23	0.09	0.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,124)	1:26:A:LYS:H	1:89:A:LYS:H	4	0.21	0.17	0.12
(1,348)	1:77:A:GLU:H	1:80:A:GLN:H	4	0.2	0.08	0.18
(2,723)	1:131:A:VAL:H	1:134:A:LEU:HD11	4	0.2	0.04	0.18
(2,723)	1:131:A:VAL:H	1:134:A:LEU:HD12	4	0.2	0.04	0.18
(2,723)	1:131:A:VAL:H	1:134:A:LEU:HD13	4	0.2	0.04	0.18
(2,739)	1:136:A:PHE:H	1:137:A:LEU:H	4	0.2	0.06	0.18
(1,253)	1:56:A:GLY:H	1:85:A:TRP:HZ3	4	0.2	0.06	0.2
(2,862)	1:150:A:LEU:H	1:153:A:GLN:H	4	0.18	0.08	0.16
(2,405)	1:52:A:LYS:H	1:85:A:TRP:H	4	0.18	0.05	0.18
(2,837)	1:148:A:LEU:H	1:150:A:LEU:H	4	0.18	0.05	0.18
(2,851)	1:149:A:ASN:H	1:152:A:LYS:H	4	0.18	0.09	0.14
(2,751)	1:139:A:VAL:H	1:142:A:ARG:H	4	0.18	0.08	0.14
(2,839)	1:148:A:LEU:H	1:151:A:ALA:H	4	0.17	0.03	0.16
(2,1113)	1:200:A:GLY:H	1:203:A:ILE:H	4	0.17	0.07	0.14
(2,636)	1:113:A:LEU:H	1:116:A:LEU:H	4	0.16	0.02	0.17
(1,556)	1:149:A:ASN:H	1:153:A:GLN:H	4	0.16	0.07	0.12
(2,875)	1:156:A:ALA:H	1:164:A:GLN:H	4	0.16	0.04	0.16
(2,433)	1:60:A:ILE:H	1:61:A:LEU:H	4	0.15	0.02	0.14
(2,757)	1:139:A:VAL:H	1:178:A:CYS:H	4	0.14	0.04	0.14
(1,592)	1:161:A:ASP:H	1:207:A:GLY:H	4	0.13	0.01	0.13
(1,717)	1:197:A:SER:H	1:199:A:HIS:H	4	0.12	0.02	0.12
(2,240)	1:41:A:TYR:H	1:43:A:VAL:H	4	0.12	0.01	0.12
(2,853)	1:150:A:LEU:H	1:151:A:ALA:H	4	0.12	0.01	0.12
(1,160)	1:42:A:ILE:H	1:65:A:ASN:H	4	0.12	0.01	0.11
(1,627)	1:168:A:THR:H	1:203:A:ILE:H	4	0.11	0.02	0.11
(1,676)	1:184:A:GLY:H	1:188:A:LYS:H	4	0.11	0.01	0.11
(2,175)	1:32:A:GLN:H	1:85:A:TRP:H	3	0.47	0.16	0.56
(2,108)	1:23:A:TYR:H	1:94:A:VAL:H	3	0.4	0.04	0.43
(1,55)	1:21:A:HIS:H	1:41:A:TYR:H	3	0.29	0.08	0.28
(2,718)	1:130:A:LYS:H	1:133:A:ASN:H	3	0.29	0.14	0.22
(2,550)	1:86:A:VAL:H	1:87:A:ARG:H	3	0.27	0.12	0.33
(1,257)	1:58:A:GLU:H	1:85:A:TRP:HZ3	3	0.25	0.1	0.19
(1,463)	1:130:A:LYS:H	1:134:A:LEU:H	3	0.25	0.09	0.25
(2,182)	1:32:A:GLN:H	1:85:A:TRP:HH2	3	0.24	0.07	0.2
(2,181)	1:32:A:GLN:H	1:85:A:TRP:HZ3	3	0.24	0.13	0.15
(2,446)	1:61:A:LEU:HD21	1:134:A:LEU:HD11	3	0.22	0.05	0.24
(2,446)	1:61:A:LEU:HD21	1:134:A:LEU:HD12	3	0.22	0.05	0.24
(2,446)	1:61:A:LEU:HD21	1:134:A:LEU:HD13	3	0.22	0.05	0.24
(2,446)	1:61:A:LEU:HD22	1:134:A:LEU:HD11	3	0.22	0.05	0.24
(2,446)	1:61:A:LEU:HD22	1:134:A:LEU:HD12	3	0.22	0.05	0.24
(2,446)	1:61:A:LEU:HD22	1:134:A:LEU:HD13	3	0.22	0.05	0.24
(2,446)	1:61:A:LEU:HD23	1:134:A:LEU:HD11	3	0.22	0.05	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,446)	1:61:A:LEU:HD23	1:134:A:LEU:HD12	3	0.22	0.05	0.24
(2,446)	1:61:A:LEU:HD23	1:134:A:LEU:HD13	3	0.22	0.05	0.24
(2,412)	1:53:A:ASP:H	1:59:A:MET:H	3	0.2	0.01	0.2
(2,891)	1:163:A:MET:H	1:205:A:VAL:H	3	0.19	0.06	0.22
(1,265)	1:60:A:ILE:H	1:62:A:SER:H	3	0.17	0.02	0.18
(2,198)	1:37:A:GLU:H	1:80:A:GLN:H	3	0.17	0.08	0.12
(2,170)	1:30:A:ILE:H	1:88:A:ALA:H	3	0.17	0.02	0.17
(2,661)	1:117:A:SER:H	1:119:A:GLN:H	3	0.17	0.03	0.18
(2,397)	1:51:A:ILE:H	1:85:A:TRP:HZ3	3	0.16	0.03	0.17
(2,672)	1:120:A:MET:H	1:123:A:ARG:H	3	0.16	0.06	0.13
(1,235)	1:51:A:ILE:H	1:62:A:SER:H	3	0.15	0.02	0.16
(1,251)	1:56:A:GLY:H	1:58:A:GLU:H	3	0.15	0.02	0.16
(2,258)	1:42:A:ILE:H	1:67:A:GLY:H	3	0.15	0.01	0.14
(2,242)	1:41:A:TYR:H	1:96:A:GLU:H	3	0.15	0.04	0.14
(2,388)	1:51:A:ILE:H	1:61:A:LEU:H	3	0.14	0.01	0.15
(2,380)	1:50:A:LEU:H	1:62:A:SER:H	3	0.14	0.03	0.14
(2,409)	1:53:A:ASP:H	1:54:A:GLU:H	3	0.14	0.01	0.14
(2,214)	1:39:A:LEU:H	1:98:A:SER:H	3	0.14	0.01	0.13
(2,991)	1:181:A:GLU:H	1:185:A:ARG:H	3	0.13	0.01	0.14
(2,132)	1:29:A:LEU:HD11	1:88:A:ALA:H	3	0.13	0.02	0.13
(2,132)	1:29:A:LEU:HD12	1:88:A:ALA:H	3	0.13	0.02	0.13
(2,132)	1:29:A:LEU:HD13	1:88:A:ALA:H	3	0.13	0.02	0.13
(2,539)	1:79:A:GLY:H	1:80:A:GLN:H	3	0.13	0.02	0.12
(1,629)	1:169:A:ARG:H	1:201:A:LYS:H	3	0.12	0.02	0.13
(1,95)	1:30:A:ILE:H	1:50:A:LEU:H	3	0.12	0.02	0.12
(2,195)	1:36:A:ALA:H	1:38:A:THR:H	3	0.12	0.01	0.12
(1,613)	1:165:A:ILE:H	1:202:A:THR:H	3	0.12	0.01	0.12
(1,720)	1:199:A:HIS:H	1:201:A:LYS:H	3	0.11	0.0	0.11
(2,577)	1:99:A:TYR:H	1:102:A:PHE:H	3	0.11	0.0	0.11
(2,934)	1:169:A:ARG:H	1:200:A:GLY:H	3	0.11	0.01	0.1
(2,317)	1:47:A:VAL:H	1:65:A:ASN:H	3	0.1	0.0	0.1
(2,95)	1:19:A:HIS:H	1:21:A:HIS:H	2	0.59	0.23	0.59
(1,478)	1:138:A:ASP:H	1:177:A:GLY:H	2	0.46	0.06	0.46
(2,750)	1:139:A:VAL:H	1:177:A:GLY:H	2	0.39	0.07	0.39
(2,190)	1:35:A:LYS:H	1:82:A:ARG:H	2	0.36	0.25	0.36
(2,116)	1:25:A:SER:H	1:91:A:ALA:H	2	0.31	0.1	0.31
(2,740)	1:137:A:LEU:HD11	1:138:A:ASP:H	2	0.3	0.18	0.3
(2,740)	1:137:A:LEU:HD12	1:138:A:ASP:H	2	0.3	0.18	0.3
(2,740)	1:137:A:LEU:HD13	1:138:A:ASP:H	2	0.3	0.18	0.3
(2,1108)	1:199:A:HIS:H	1:203:A:ILE:H	2	0.3	0.01	0.3
(2,513)	1:75:A:LEU:H	1:99:A:TYR:HE1	2	0.27	0.09	0.27
(2,513)	1:75:A:LEU:H	1:99:A:TYR:HE2	2	0.27	0.09	0.27

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,905)	1:165:A:ILE:H	1:203:A:ILE:H	2	0.26	0.07	0.26
(2,904)	1:164:A:GLN:H	1:205:A:VAL:H	2	0.21	0.01	0.21
(2,120)	1:25:A:SER:H	1:90:A:THR:H	2	0.21	0.09	0.21
(1,110)	1:35:A:LYS:H	1:37:A:GLU:H	2	0.2	0.06	0.2
(2,100)	1:21:A:HIS:H	1:94:A:VAL:H	2	0.18	0.03	0.18
(2,899)	1:163:A:MET:H	1:206:A:TYR:H	2	0.18	0.01	0.18
(2,785)	1:142:A:ARG:H	1:177:A:GLY:H	2	0.18	0.06	0.18
(2,676)	1:121:A:ALA:H	1:124:A:LEU:HD11	2	0.17	0.0	0.17
(2,676)	1:121:A:ALA:H	1:124:A:LEU:HD12	2	0.17	0.0	0.17
(2,676)	1:121:A:ALA:H	1:124:A:LEU:HD13	2	0.17	0.0	0.17
(1,43)	1:19:A:HIS:H	1:98:A:SER:H	2	0.16	0.06	0.16
(1,597)	1:162:A:GLY:H	1:164:A:GLN:H	2	0.16	0.04	0.16
(1,361)	1:87:A:ARG:H	1:89:A:LYS:H	2	0.16	0.01	0.16
(2,365)	1:50:A:LEU:HD21	1:87:A:ARG:H	2	0.16	0.02	0.16
(2,365)	1:50:A:LEU:HD22	1:87:A:ARG:H	2	0.16	0.02	0.16
(2,365)	1:50:A:LEU:HD23	1:87:A:ARG:H	2	0.16	0.02	0.16
(2,415)	1:55:A:GLU:H	1:56:A:GLY:H	2	0.16	0.04	0.16
(2,759)	1:139:A:VAL:H	1:143:A:ILE:H	2	0.16	0.02	0.16
(2,101)	1:21:A:HIS:H	1:95:A:ALA:H	2	0.16	0.02	0.16
(1,433)	1:120:A:MET:H	1:124:A:LEU:H	2	0.16	0.05	0.16
(1,495)	1:140:A:THR:H	1:183:A:VAL:H	2	0.16	0.01	0.16
(2,682)	1:123:A:ARG:H	1:124:A:LEU:H	2	0.16	0.02	0.16
(2,529)	1:76:A:PHE:H	1:77:A:GLU:H	2	0.15	0.04	0.15
(1,301)	1:69:A:PHE:H	1:120:A:MET:H	2	0.15	0.02	0.15
(1,116)	1:37:A:GLU:H	1:79:A:GLY:H	2	0.14	0.03	0.14
(1,652)	1:174:A:GLN:H	1:179:A:SER:H	2	0.14	0.0	0.14
(2,265)	1:42:A:ILE:H	1:69:A:PHE:H	2	0.14	0.03	0.14
(2,558)	1:92:A:CYS:H	1:94:A:VAL:H	2	0.14	0.01	0.14
(2,913)	1:165:A:ILE:H	1:205:A:VAL:H	2	0.14	0.01	0.14
(1,88)	1:30:A:ILE:H	1:32:A:GLN:H	2	0.14	0.01	0.14
(1,111)	1:36:A:ALA:H	1:79:A:GLY:H	2	0.14	0.02	0.14
(1,136)	1:39:A:LEU:H	1:103:A:ARG:H	2	0.14	0.04	0.14
(1,439)	1:124:A:LEU:H	1:127:A:LEU:H	2	0.14	0.04	0.14
(1,496)	1:141:A:GLY:H	1:177:A:GLY:H	2	0.14	0.02	0.14
(2,62)	1:14:A:PHE:H	1:17:A:HIS:H	2	0.14	0.02	0.14
(2,161)	1:30:A:ILE:H	1:31:A:HIS:H	2	0.14	0.02	0.14
(2,667)	1:119:A:GLN:H	1:120:A:MET:H	2	0.14	0.04	0.14
(2,857)	1:150:A:LEU:H	1:152:A:LYS:H	2	0.14	0.04	0.14
(2,940)	1:171:A:GLU:H	1:174:A:GLN:H	2	0.14	0.02	0.14
(2,1104)	1:199:A:HIS:H	1:204:A:VAL:H	2	0.14	0.01	0.14
(2,508)	1:74:A:GLY:H	1:76:A:PHE:H	2	0.13	0.03	0.13
(2,779)	1:141:A:GLY:H	1:145:A:GLN:H	2	0.13	0.01	0.13

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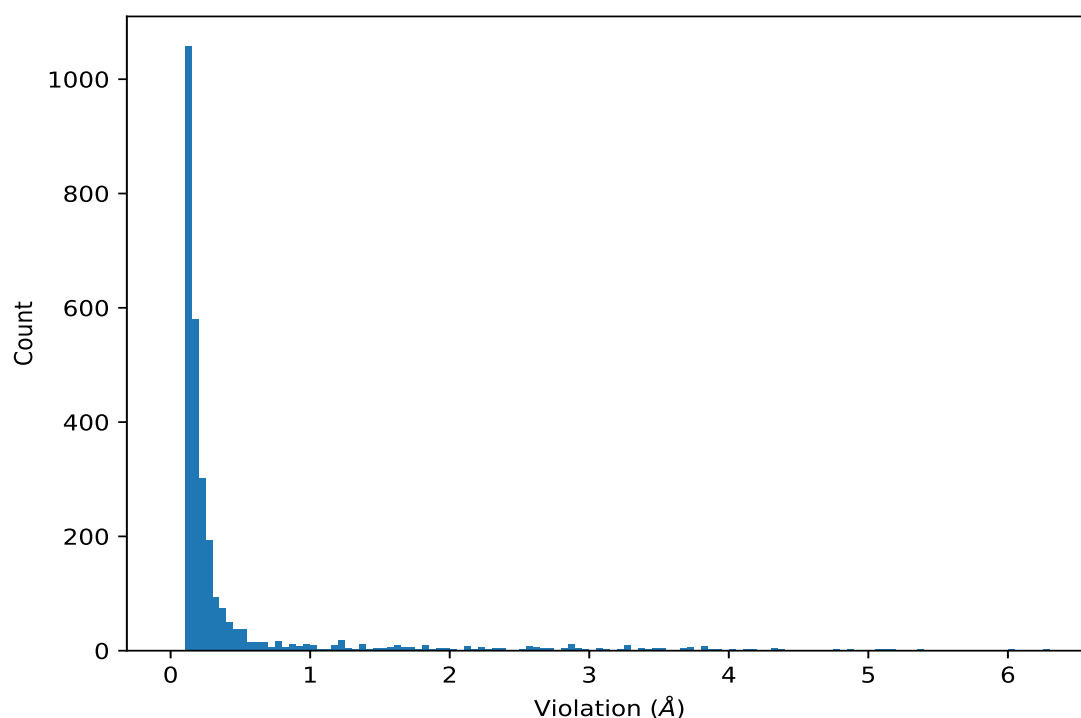
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,732)	1:204:A:VAL:H	1:206:A:TYR:H	2	0.12	0.01	0.12
(2,390)	1:51:A:ILE:H	1:52:A:LYS:H	2	0.12	0.01	0.12
(2,775)	1:141:A:GLY:H	1:143:A:ILE:H	2	0.12	0.01	0.12
(2,782)	1:142:A:ARG:H	1:143:A:ILE:HD11	2	0.12	0.02	0.12
(2,782)	1:142:A:ARG:H	1:143:A:ILE:HD12	2	0.12	0.02	0.12
(2,782)	1:142:A:ARG:H	1:143:A:ILE:HD13	2	0.12	0.02	0.12
(2,425)	1:59:A:MET:H	1:61:A:LEU:H	2	0.12	0.02	0.12
(1,202)	1:48:A:ALA:H	1:86:A:VAL:H	2	0.12	0.01	0.12
(1,410)	1:111:A:ASP:H	1:116:A:LEU:H	2	0.12	0.01	0.12
(2,194)	1:36:A:ALA:H	1:37:A:GLU:H	2	0.12	0.01	0.12
(2,404)	1:52:A:LYS:H	1:59:A:MET:H	2	0.12	0.01	0.12
(2,456)	1:64:A:LEU:H	1:65:A:ASN:H	2	0.12	0.0	0.12
(2,881)	1:159:A:HIS:H	1:164:A:GLN:H	2	0.12	0.01	0.12
(2,935)	1:170:A:GLN:H	1:171:A:GLU:H	2	0.12	0.01	0.12
(1,634)	1:170:A:GLN:H	1:180:A:ARG:H	2	0.12	0.0	0.12
(2,616)	1:106:A:ILE:H	1:113:A:LEU:H	2	0.12	0.0	0.12
(2,627)	1:111:A:ASP:H	1:115:A:ARG:H	2	0.12	0.0	0.12
(1,389)	1:104:A:GLN:H	1:108:A:VAL:H	2	0.11	0.0	0.11
(2,402)	1:52:A:LYS:H	1:53:A:ASP:H	2	0.11	0.01	0.11
(1,345)	1:76:A:PHE:H	1:78:A:GLU:H	2	0.11	0.0	0.11
(1,426)	1:116:A:LEU:H	1:120:A:MET:H	2	0.11	0.0	0.11
(1,571)	1:151:A:ALA:H	1:156:A:ALA:H	2	0.11	0.0	0.11
(2,122)	1:26:A:LYS:H	1:90:A:THR:H	2	0.11	0.0	0.11
(2,564)	1:95:A:ALA:H	1:96:A:GLU:H	2	0.11	0.0	0.11
(2,926)	1:168:A:THR:H	1:172:A:ILE:H	2	0.11	0.0	0.11
(1,334)	1:75:A:LEU:HD11	1:100:A:LYS:H	2	0.1	0.0	0.1
(1,334)	1:75:A:LEU:HD12	1:100:A:LYS:H	2	0.1	0.0	0.1
(1,334)	1:75:A:LEU:HD13	1:100:A:LYS:H	2	0.1	0.0	0.1
(2,199)	1:38:A:THR:H	1:99:A:TYR:HE1	2	0.1	0.0	0.1
(2,199)	1:38:A:THR:H	1:99:A:TYR:HE2	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)
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	20	6.29
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	3	6.26
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	6	6.12
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	20	6.07
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	3	6.01
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	15	6.0
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	20	5.9
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	15	5.87
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	15	5.7
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	6	5.67
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	6	5.55
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	3	5.5
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	2	5.38
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	5	5.38
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	2	5.15
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	20	5.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	17	5.15
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	5	5.14
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	15	5.12
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	8	5.06
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	6	5.05
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	16	5.04
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	17	4.97
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	2	4.93
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	16	4.86
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	17	4.85
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	3	4.85
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	8	4.82
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	16	4.76
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	16	4.76
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	16	4.76
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	5	4.7
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	11	4.68
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	5	4.62
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	16	4.54
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	8	4.39
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	2	4.37
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	12	4.33
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	11	4.33
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	8	4.31
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	12	4.3
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	7	4.2
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	18	4.16
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	16	4.15
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	17	4.13
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	18	4.12
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	19	4.05
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	11	4.04
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	19	4.03
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	1	4.0
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	7	3.92
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	7	3.92
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	9	3.88
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	4	3.87
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	9	3.85
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	3	3.82
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	3	3.82
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	3	3.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	18	3.81
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	16	3.8
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	16	3.8
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	16	3.8
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	4	3.77
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	11	3.74
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	11	3.73
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	12	3.72
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	18	3.71
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	7	3.7
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	9	3.7
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	6	3.69
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	6	3.69
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	6	3.69
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	1	3.68
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	10	3.62
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	10	3.59
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	19	3.54
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	19	3.53
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	1	3.52
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	20	3.52
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	3	3.49
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	4	3.48
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	4	3.48
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	4	3.48
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	4	3.43
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	4	3.42
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	15	3.38
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	15	3.38
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	15	3.38
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	18	3.35
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	6	3.26
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	6	3.26
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	6	3.26
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	20	3.26
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	20	3.26
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	20	3.26
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	3	3.25
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	3	3.25
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	3	3.25
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	10	3.24
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	13	3.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	6	3.19
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	13	3.11
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	13	3.11
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	13	3.11
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	5	3.08
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	5	3.08
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	5	3.08
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	13	3.06
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	1	3.05
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	15	2.98
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	16	2.97
(1,316)	1:72:A:GLU:H	1:83:A:SER:H	14	2.97
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	12	2.91
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	7	2.9
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	7	2.9
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	7	2.9
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	2	2.89
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	2	2.89
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	2	2.89
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	10	2.86
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	15	2.86
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	15	2.86
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	15	2.86
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	14	2.86
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	4	2.85
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	4	2.85
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	4	2.85
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	20	2.83
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	20	2.83
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	20	2.83
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	20	2.83
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	13	2.77
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	2	2.74
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	8	2.73
(2,501)	1:73:A:LEU:H	1:83:A:SER:H	14	2.72
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	11	2.72
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	5	2.69
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	3	2.66
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	5	2.65
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	5	2.65
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	5	2.65
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	12	2.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	12	2.63
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	12	2.63
(2,488)	1:71:A:GLY:H	1:83:A:SER:H	13	2.62
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	6	2.61
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	15	2.6
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	8	2.58
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	8	2.58
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	8	2.58
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	7	2.57
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	7	2.57
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	7	2.57
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	11	2.55
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	9	2.52
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	8	2.52
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	16	2.43
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	18	2.36
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	2	2.35
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	2	2.35
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	2	2.35
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	2	2.35
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	19	2.33
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	11	2.33
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	11	2.33
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	11	2.33
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	1	2.29
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	7	2.29
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	5	2.24
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	17	2.23
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	17	2.23
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	17	2.23
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	8	2.22
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	17	2.21
(2,509)	1:74:A:GLY:H	1:83:A:SER:H	14	2.17
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	11	2.15
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	1	2.13
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	18	2.13
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	11	2.11
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	8	2.1
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	8	2.1
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	8	2.1
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	11	2.1
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	4	2.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	2	2.05
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	4	2.04
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	18	2.02
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	17	1.97
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	16	1.96
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	12	1.95
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	12	1.95
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	12	1.95
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	10	1.94
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	17	1.92
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	17	1.92
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	17	1.92
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	6	1.89
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	10	1.87
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	17	1.84
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	7	1.83
(1,352)	1:81:A:GLU:H	1:83:A:SER:H	3	1.82
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	11	1.8
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	11	1.8
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	11	1.8
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	1	1.8
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	1	1.8
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	1	1.8
(1,90)	1:30:A:ILE:HD11	1:83:A:SER:H	18	1.78
(1,90)	1:30:A:ILE:HD12	1:83:A:SER:H	18	1.78
(1,90)	1:30:A:ILE:HD13	1:83:A:SER:H	18	1.78
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	19	1.73
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	16	1.73
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	18	1.72
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	18	1.72
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	18	1.72
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	14	1.7
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	20	1.67
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	13	1.66
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	13	1.66
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	13	1.66
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	9	1.66
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	17	1.65
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	3	1.64
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	3	1.63
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	3	1.63
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	3	1.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,193)	1:36:A:ALA:H	1:81:A:GLU:H	2	1.62
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	20	1.62
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	19	1.62
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	19	1.62
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	19	1.62
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	14	1.59
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	6	1.57
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	6	1.57
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	6	1.57
(2,193)	1:36:A:ALA:H	1:81:A:GLU:H	11	1.56
(1,352)	1:81:A:GLU:H	1:83:A:SER:H	6	1.56
(1,352)	1:81:A:GLU:H	1:83:A:SER:H	7	1.53
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	10	1.51
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	10	1.51
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	10	1.51
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	12	1.5
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	3	1.49
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	19	1.48
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	9	1.47
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	6	1.45
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	9	1.44
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	8	1.41
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	7	1.39
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	4	1.38
(1,90)	1:30:A:ILE:HD11	1:83:A:SER:H	15	1.38
(1,90)	1:30:A:ILE:HD12	1:83:A:SER:H	15	1.38
(1,90)	1:30:A:ILE:HD13	1:83:A:SER:H	15	1.38
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	7	1.37
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	20	1.37
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	12	1.36
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	14	1.36
(1,90)	1:30:A:ILE:HD11	1:83:A:SER:H	17	1.36
(1,90)	1:30:A:ILE:HD12	1:83:A:SER:H	17	1.36
(1,90)	1:30:A:ILE:HD13	1:83:A:SER:H	17	1.36
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	12	1.34
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	5	1.31
(1,352)	1:81:A:GLU:H	1:83:A:SER:H	14	1.29
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	2	1.27
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	1	1.26
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	1	1.26
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	1	1.26
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	18	1.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	18	1.24
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	18	1.24
(2,193)	1:36:A:ALA:H	1:81:A:GLU:H	8	1.24
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	8	1.24
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	10	1.23
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	7	1.22
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	1	1.22
(2,695)	1:125:A:GLN:H	1:132:A:GLY:H	12	1.21
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	20	1.21
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	20	1.21
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	20	1.21
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	4	1.2
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	7	1.2
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	9	1.2
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	9	1.2
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	9	1.2
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	16	1.2
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	1	1.19
(1,352)	1:81:A:GLU:H	1:83:A:SER:H	2	1.18
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	19	1.17
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	19	1.17
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	19	1.17
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	12	1.17
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	10	1.15
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	10	1.15
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	10	1.15
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	9	1.15
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	8	1.14
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	14	1.13
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	10	1.12
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	10	1.09
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	12	1.06
(1,352)	1:81:A:GLU:H	1:83:A:SER:H	17	1.06
(2,500)	1:73:A:LEU:HD11	1:83:A:SER:H	9	1.04
(2,500)	1:73:A:LEU:HD12	1:83:A:SER:H	9	1.04
(2,500)	1:73:A:LEU:HD13	1:83:A:SER:H	9	1.04
(2,544)	1:83:A:SER:H	1:84:A:ALA:H	19	1.03
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	5	1.02
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	5	1.02
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	5	1.02
(2,186)	1:33:A:GLY:H	1:83:A:SER:H	7	1.02
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	1	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	15	0.99
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	15	0.99
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	15	0.99
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	3	0.99
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	2	0.98
(2,544)	1:83:A:SER:H	1:84:A:ALA:H	17	0.96
(2,872)	1:153:A:GLN:H	1:155:A:ASP:H	17	0.95
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	11	0.95
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	11	0.95
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	11	0.95
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	18	0.95
(1,90)	1:30:A:ILE:HD11	1:83:A:SER:H	2	0.94
(1,90)	1:30:A:ILE:HD12	1:83:A:SER:H	2	0.94
(1,90)	1:30:A:ILE:HD13	1:83:A:SER:H	2	0.94
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	3	0.92
(1,352)	1:81:A:GLU:H	1:83:A:SER:H	5	0.91
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	15	0.91
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	13	0.9
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	17	0.9
(2,544)	1:83:A:SER:H	1:84:A:ALA:H	7	0.89
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	6	0.89
(2,544)	1:83:A:SER:H	1:84:A:ALA:H	12	0.87
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	2	0.86
(2,99)	1:21:A:HIS:H	1:96:A:GLU:H	20	0.86
(1,445)	1:125:A:GLN:H	1:129:A:GLU:H	13	0.86
(2,107)	1:23:A:TYR:H	1:92:A:CYS:H	20	0.85
(2,99)	1:21:A:HIS:H	1:96:A:GLU:H	16	0.85
(1,441)	1:124:A:LEU:H	1:132:A:GLY:H	12	0.85
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	16	0.85
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	16	0.85
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	16	0.85
(2,193)	1:36:A:ALA:H	1:81:A:GLU:H	16	0.83
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	4	0.83
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	12	0.83
(2,95)	1:19:A:HIS:H	1:21:A:HIS:H	16	0.82
(2,110)	1:23:A:TYR:H	1:93:A:GLU:H	16	0.8
(1,352)	1:81:A:GLU:H	1:83:A:SER:H	16	0.8
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	8	0.79
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	8	0.79
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	8	0.79
(2,492)	1:71:A:GLY:H	1:84:A:ALA:H	14	0.79
(2,680)	1:122:A:ARG:H	1:126:A:VAL:H	12	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,184)	1:33:A:GLY:H	1:82:A:ARG:H	15	0.77
(2,110)	1:23:A:TYR:H	1:93:A:GLU:H	20	0.77
(1,352)	1:81:A:GLU:H	1:83:A:SER:H	15	0.77
(1,260)	1:59:A:MET:H	1:85:A:TRP:H	14	0.76
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	2	0.75
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	2	0.75
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	2	0.75
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	16	0.75
(2,107)	1:23:A:TYR:H	1:92:A:CYS:H	16	0.75
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	4	0.75
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	4	0.75
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	4	0.75
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	14	0.74
(2,157)	1:30:A:ILE:H	1:86:A:VAL:H	14	0.72
(1,445)	1:125:A:GLN:H	1:129:A:GLU:H	11	0.72
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	17	0.7
(2,186)	1:33:A:GLY:H	1:83:A:SER:H	12	0.7
(1,352)	1:81:A:GLU:H	1:83:A:SER:H	20	0.7
(2,176)	1:32:A:GLN:H	1:85:A:TRP:HE3	11	0.68
(1,504)	1:143:A:ILE:H	1:176:A:VAL:H	12	0.68
(2,395)	1:51:A:ILE:H	1:85:A:TRP:H	14	0.67
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	15	0.67
(1,352)	1:81:A:GLU:H	1:83:A:SER:H	12	0.67
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	5	0.67
(2,708)	1:127:A:LEU:HD11	1:128:A:ILE:H	18	0.66
(2,708)	1:127:A:LEU:HD12	1:128:A:ILE:H	18	0.66
(2,708)	1:127:A:LEU:HD13	1:128:A:ILE:H	18	0.66
(1,352)	1:81:A:GLU:H	1:83:A:SER:H	13	0.66
(1,252)	1:56:A:GLY:H	1:85:A:TRP:HH2	2	0.66
(2,174)	1:31:A:HIS:H	1:34:A:GLU:H	19	0.65
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	12	0.65
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	12	0.65
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	12	0.65
(2,178)	1:32:A:GLN:H	1:86:A:VAL:H	14	0.64
(1,87)	1:30:A:ILE:HD11	1:84:A:ALA:H	18	0.64
(1,87)	1:30:A:ILE:HD12	1:84:A:ALA:H	18	0.64
(1,87)	1:30:A:ILE:HD13	1:84:A:ALA:H	18	0.64
(2,138)	1:29:A:LEU:H	1:86:A:VAL:H	14	0.63
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	2	0.63
(2,185)	1:33:A:GLY:H	1:84:A:ALA:H	18	0.62
(1,97)	1:31:A:HIS:H	1:82:A:ARG:H	6	0.62
(2,190)	1:35:A:LYS:H	1:82:A:ARG:H	17	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,179)	1:32:A:GLN:H	1:34:A:GLU:H	17	0.6
(2,175)	1:32:A:GLN:H	1:85:A:TRP:H	11	0.6
(1,90)	1:30:A:ILE:HD11	1:83:A:SER:H	7	0.6
(1,90)	1:30:A:ILE:HD12	1:83:A:SER:H	7	0.6
(1,90)	1:30:A:ILE:HD13	1:83:A:SER:H	7	0.6
(2,173)	1:31:A:HIS:H	1:86:A:VAL:H	14	0.59
(1,445)	1:125:A:GLN:H	1:129:A:GLU:H	8	0.59
(1,107)	1:33:A:GLY:H	1:85:A:TRP:H	17	0.59
(1,90)	1:30:A:ILE:HD11	1:83:A:SER:H	12	0.59
(1,90)	1:30:A:ILE:HD12	1:83:A:SER:H	12	0.59
(1,90)	1:30:A:ILE:HD13	1:83:A:SER:H	12	0.59
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	2	0.58
(2,684)	1:123:A:ARG:H	1:126:A:VAL:H	12	0.57
(2,504)	1:73:A:LEU:H	1:76:A:PHE:H	19	0.57
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	20	0.57
(2,175)	1:32:A:GLN:H	1:85:A:TRP:H	13	0.56
(1,327)	1:73:A:LEU:H	1:84:A:ALA:H	13	0.56
(2,424)	1:59:A:MET:H	1:85:A:TRP:HE3	4	0.55
(1,445)	1:125:A:GLN:H	1:129:A:GLU:H	18	0.55
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	1	0.55
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	3	0.54
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	5	0.54
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	10	0.54
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	5	0.54
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	5	0.54
(1,274)	1:61:A:LEU:H	1:85:A:TRP:H	14	0.54
(1,252)	1:56:A:GLY:H	1:85:A:TRP:HH2	7	0.54
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	11	0.54
(1,90)	1:30:A:ILE:HD11	1:83:A:SER:H	3	0.54
(1,90)	1:30:A:ILE:HD12	1:83:A:SER:H	3	0.54
(1,90)	1:30:A:ILE:HD13	1:83:A:SER:H	3	0.54
(1,62)	1:23:A:TYR:H	1:44:A:LYS:H	20	0.54
(2,426)	1:59:A:MET:H	1:85:A:TRP:HZ3	10	0.53
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	7	0.53
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	13	0.53
(2,186)	1:33:A:GLY:H	1:83:A:SER:H	18	0.53
(1,97)	1:31:A:HIS:H	1:82:A:ARG:H	9	0.53
(1,90)	1:30:A:ILE:HD11	1:83:A:SER:H	5	0.53
(1,90)	1:30:A:ILE:HD12	1:83:A:SER:H	5	0.53
(1,90)	1:30:A:ILE:HD13	1:83:A:SER:H	5	0.53
(1,90)	1:30:A:ILE:HD11	1:83:A:SER:H	11	0.53
(1,90)	1:30:A:ILE:HD12	1:83:A:SER:H	11	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,90)	1:30:A:ILE:HD13	1:83:A:SER:H	11	0.53
(2,725)	1:131:A:VAL:H	1:134:A:LEU:HD21	17	0.52
(2,725)	1:131:A:VAL:H	1:134:A:LEU:HD22	17	0.52
(2,725)	1:131:A:VAL:H	1:134:A:LEU:HD23	17	0.52
(1,478)	1:138:A:ASP:H	1:177:A:GLY:H	6	0.52
(1,252)	1:56:A:GLY:H	1:85:A:TRP:HH2	3	0.52
(1,97)	1:31:A:HIS:H	1:82:A:ARG:H	5	0.52
(2,424)	1:59:A:MET:H	1:85:A:TRP:HE3	16	0.51
(2,406)	1:53:A:ASP:H	1:57:A:LYS:H	18	0.51
(2,124)	1:26:A:LYS:H	1:89:A:LYS:H	5	0.51
(1,582)	1:155:A:ASP:H	1:157:A:MET:H	7	0.51
(1,458)	1:129:A:GLU:H	1:133:A:ASN:H	5	0.51
(1,104)	1:32:A:GLN:H	1:50:A:LEU:H	13	0.51
(2,544)	1:83:A:SER:H	1:84:A:ALA:H	5	0.5
(2,424)	1:59:A:MET:H	1:85:A:TRP:HE3	20	0.5
(1,62)	1:23:A:TYR:H	1:44:A:LYS:H	16	0.5
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	19	0.49
(1,575)	1:151:A:ALA:H	1:205:A:VAL:H	17	0.49
(1,239)	1:51:A:ILE:HD11	1:60:A:ILE:H	18	0.49
(1,239)	1:51:A:ILE:HD12	1:60:A:ILE:H	18	0.49
(1,239)	1:51:A:ILE:HD13	1:60:A:ILE:H	18	0.49
(2,740)	1:137:A:LEU:HD11	1:138:A:ASP:H	10	0.48
(2,740)	1:137:A:LEU:HD12	1:138:A:ASP:H	10	0.48
(2,740)	1:137:A:LEU:HD13	1:138:A:ASP:H	10	0.48
(2,718)	1:130:A:LYS:H	1:133:A:ASN:H	9	0.48
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	3	0.48
(2,677)	1:121:A:ALA:H	1:124:A:LEU:H	10	0.48
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	18	0.48
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	12	0.48
(1,90)	1:30:A:ILE:HD11	1:83:A:SER:H	20	0.48
(1,90)	1:30:A:ILE:HD12	1:83:A:SER:H	20	0.48
(1,90)	1:30:A:ILE:HD13	1:83:A:SER:H	20	0.48
(1,445)	1:125:A:GLN:H	1:129:A:GLU:H	9	0.47
(1,443)	1:125:A:GLN:H	1:131:A:VAL:H	19	0.47
(1,252)	1:56:A:GLY:H	1:85:A:TRP:HH2	16	0.47
(1,252)	1:56:A:GLY:H	1:85:A:TRP:HH2	20	0.47
(1,115)	1:37:A:GLU:H	1:82:A:ARG:H	13	0.47
(1,97)	1:31:A:HIS:H	1:82:A:ARG:H	15	0.47
(2,750)	1:139:A:VAL:H	1:177:A:GLY:H	6	0.46
(2,544)	1:83:A:SER:H	1:84:A:ALA:H	9	0.46
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	9	0.46
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	10	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	11	0.46
(1,461)	1:130:A:LYS:H	1:146:A:THR:H	7	0.46
(1,352)	1:81:A:GLU:H	1:83:A:SER:H	8	0.46
(1,349)	1:78:A:GLU:H	1:80:A:GLN:H	19	0.46
(1,274)	1:61:A:LEU:H	1:85:A:TRP:H	18	0.46
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	12	0.45
(2,424)	1:59:A:MET:H	1:85:A:TRP:HE3	2	0.45
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	13	0.45
(2,118)	1:25:A:SER:H	1:27:A:SER:H	5	0.45
(1,445)	1:125:A:GLN:H	1:129:A:GLU:H	3	0.45
(1,97)	1:31:A:HIS:H	1:82:A:ARG:H	4	0.45
(2,426)	1:59:A:MET:H	1:85:A:TRP:HZ3	9	0.44
(2,426)	1:59:A:MET:H	1:85:A:TRP:HZ3	20	0.44
(2,424)	1:59:A:MET:H	1:85:A:TRP:HE3	7	0.44
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	18	0.44
(1,504)	1:143:A:ILE:H	1:176:A:VAL:H	6	0.44
(1,475)	1:136:A:PHE:H	1:138:A:ASP:H	17	0.44
(2,695)	1:125:A:GLN:H	1:132:A:GLY:H	1	0.43
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	9	0.43
(2,424)	1:59:A:MET:H	1:85:A:TRP:HE3	10	0.43
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	9	0.43
(2,108)	1:23:A:TYR:H	1:94:A:VAL:H	5	0.43
(2,108)	1:23:A:TYR:H	1:94:A:VAL:H	20	0.43
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	9	0.43
(1,239)	1:51:A:ILE:HD11	1:60:A:ILE:H	11	0.43
(1,239)	1:51:A:ILE:HD12	1:60:A:ILE:H	11	0.43
(1,239)	1:51:A:ILE:HD13	1:60:A:ILE:H	11	0.43
(1,115)	1:37:A:GLU:H	1:82:A:ARG:H	6	0.43
(2,708)	1:127:A:LEU:HD11	1:128:A:ILE:H	3	0.42
(2,708)	1:127:A:LEU:HD12	1:128:A:ILE:H	3	0.42
(2,708)	1:127:A:LEU:HD13	1:128:A:ILE:H	3	0.42
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	10	0.42
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	10	0.42
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	10	0.42
(2,424)	1:59:A:MET:H	1:85:A:TRP:HE3	14	0.42
(2,197)	1:37:A:GLU:H	1:99:A:TYR:H	11	0.42
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	1	0.42
(2,181)	1:32:A:GLN:H	1:85:A:TRP:HZ3	11	0.42
(2,176)	1:32:A:GLN:H	1:85:A:TRP:HE3	18	0.42
(1,582)	1:155:A:ASP:H	1:157:A:MET:H	6	0.42
(1,524)	1:146:A:THR:H	1:176:A:VAL:H	12	0.42
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	19	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,677)	1:121:A:ALA:H	1:124:A:LEU:H	5	0.41
(2,424)	1:59:A:MET:H	1:85:A:TRP:HE3	3	0.41
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	16	0.41
(2,339)	1:49:A:VAL:H	1:62:A:SER:H	14	0.41
(2,185)	1:33:A:GLY:H	1:84:A:ALA:H	11	0.41
(2,116)	1:25:A:SER:H	1:91:A:ALA:H	20	0.41
(1,458)	1:129:A:GLU:H	1:133:A:ASN:H	10	0.41
(1,115)	1:37:A:GLU:H	1:82:A:ARG:H	17	0.41
(1,106)	1:33:A:GLY:H	1:36:A:ALA:H	11	0.41
(1,97)	1:31:A:HIS:H	1:82:A:ARG:H	17	0.41
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	12	0.4
(2,708)	1:127:A:LEU:HD11	1:128:A:ILE:H	2	0.4
(2,708)	1:127:A:LEU:HD12	1:128:A:ILE:H	2	0.4
(2,708)	1:127:A:LEU:HD13	1:128:A:ILE:H	2	0.4
(1,478)	1:138:A:ASP:H	1:177:A:GLY:H	12	0.4
(1,458)	1:129:A:GLU:H	1:133:A:ASN:H	15	0.4
(1,443)	1:125:A:GLN:H	1:131:A:VAL:H	6	0.4
(1,55)	1:21:A:HIS:H	1:41:A:TYR:H	20	0.4
(2,743)	1:137:A:LEU:HD21	1:141:A:GLY:H	10	0.39
(2,743)	1:137:A:LEU:HD22	1:141:A:GLY:H	10	0.39
(2,743)	1:137:A:LEU:HD23	1:141:A:GLY:H	10	0.39
(2,695)	1:125:A:GLN:H	1:132:A:GLY:H	11	0.39
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	8	0.39
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	13	0.39
(2,544)	1:83:A:SER:H	1:84:A:ALA:H	20	0.39
(2,424)	1:59:A:MET:H	1:85:A:TRP:HE3	1	0.39
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	5	0.39
(2,176)	1:32:A:GLN:H	1:85:A:TRP:HE3	13	0.39
(1,513)	1:144:A:ALA:H	1:148:A:LEU:H	12	0.39
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	3	0.39
(1,257)	1:58:A:GLU:H	1:85:A:TRP:HZ3	14	0.39
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	13	0.39
(1,97)	1:31:A:HIS:H	1:82:A:ARG:H	1	0.39
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	6	0.38
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	18	0.38
(2,695)	1:125:A:GLN:H	1:132:A:GLY:H	19	0.38
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	11	0.38
(2,426)	1:59:A:MET:H	1:85:A:TRP:HZ3	4	0.38
(2,426)	1:59:A:MET:H	1:85:A:TRP:HZ3	11	0.38
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	20	0.38
(2,367)	1:50:A:LEU:H	1:85:A:TRP:H	14	0.38
(2,174)	1:31:A:HIS:H	1:34:A:GLU:H	17	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	17	0.38
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	14	0.38
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	14	0.38
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	14	0.38
(1,225)	1:50:A:LEU:H	1:59:A:MET:H	20	0.38
(1,107)	1:33:A:GLY:H	1:85:A:TRP:H	15	0.38
(1,104)	1:32:A:GLN:H	1:50:A:LEU:H	3	0.38
(1,97)	1:31:A:HIS:H	1:82:A:ARG:H	14	0.38
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	18	0.37
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	19	0.37
(2,550)	1:86:A:VAL:H	1:87:A:ARG:H	9	0.37
(2,424)	1:59:A:MET:H	1:85:A:TRP:HE3	9	0.37
(2,424)	1:59:A:MET:H	1:85:A:TRP:HE3	13	0.37
(2,301)	1:46:A:SER:H	1:91:A:ALA:H	20	0.37
(2,136)	1:29:A:LEU:H	1:88:A:ALA:H	18	0.37
(1,538)	1:147:A:LEU:H	1:151:A:ALA:H	12	0.37
(1,445)	1:125:A:GLN:H	1:129:A:GLU:H	7	0.37
(1,443)	1:125:A:GLN:H	1:131:A:VAL:H	2	0.37
(1,108)	1:33:A:GLY:H	1:85:A:TRP:HH2	13	0.37
(1,107)	1:33:A:GLY:H	1:85:A:TRP:H	3	0.37
(2,513)	1:75:A:LEU:H	1:99:A:TYR:HE1	19	0.36
(2,513)	1:75:A:LEU:H	1:99:A:TYR:HE2	19	0.36
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	13	0.36
(2,95)	1:19:A:HIS:H	1:21:A:HIS:H	20	0.36
(1,472)	1:133:A:ASN:H	1:136:A:PHE:HE1	13	0.36
(1,472)	1:133:A:ASN:H	1:136:A:PHE:HE2	13	0.36
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	18	0.36
(1,443)	1:125:A:GLN:H	1:131:A:VAL:H	20	0.36
(1,239)	1:51:A:ILE:HD11	1:60:A:ILE:H	13	0.36
(1,239)	1:51:A:ILE:HD12	1:60:A:ILE:H	13	0.36
(1,239)	1:51:A:ILE:HD13	1:60:A:ILE:H	13	0.36
(1,225)	1:50:A:LEU:H	1:59:A:MET:H	16	0.36
(1,104)	1:32:A:GLN:H	1:50:A:LEU:H	20	0.36
(1,90)	1:30:A:ILE:HD11	1:83:A:SER:H	9	0.36
(1,90)	1:30:A:ILE:HD12	1:83:A:SER:H	9	0.36
(1,90)	1:30:A:ILE:HD13	1:83:A:SER:H	9	0.36
(2,744)	1:138:A:ASP:H	1:139:A:VAL:H	6	0.35
(2,695)	1:125:A:GLN:H	1:132:A:GLY:H	3	0.35
(2,695)	1:125:A:GLN:H	1:132:A:GLY:H	7	0.35
(2,544)	1:83:A:SER:H	1:84:A:ALA:H	18	0.35
(2,420)	1:59:A:MET:H	1:60:A:ILE:H	20	0.35
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	15	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,406)	1:53:A:ASP:H	1:57:A:LYS:H	11	0.35
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	6	0.35
(2,136)	1:29:A:LEU:H	1:88:A:ALA:H	11	0.35
(2,99)	1:21:A:HIS:H	1:96:A:GLU:H	5	0.35
(1,463)	1:130:A:LYS:H	1:134:A:LEU:H	5	0.35
(1,461)	1:130:A:LYS:H	1:146:A:THR:H	13	0.35
(1,441)	1:124:A:LEU:H	1:132:A:GLY:H	13	0.35
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	10	0.35
(1,274)	1:61:A:LEU:H	1:85:A:TRP:H	10	0.35
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	15	0.34
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE1	3	0.34
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE2	3	0.34
(2,695)	1:125:A:GLN:H	1:132:A:GLY:H	13	0.34
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	1	0.34
(2,426)	1:59:A:MET:H	1:85:A:TRP:HZ3	14	0.34
(2,424)	1:59:A:MET:H	1:85:A:TRP:HE3	8	0.34
(2,372)	1:50:A:LEU:H	1:86:A:VAL:H	4	0.34
(2,352)	1:49:A:VAL:H	1:63:A:TYR:H	15	0.34
(2,182)	1:32:A:GLN:H	1:85:A:TRP:HH2	11	0.34
(2,110)	1:23:A:TYR:H	1:93:A:GLU:H	5	0.34
(2,108)	1:23:A:TYR:H	1:94:A:VAL:H	16	0.34
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	6	0.34
(1,475)	1:136:A:PHE:H	1:138:A:ASP:H	1	0.34
(1,458)	1:129:A:GLU:H	1:133:A:ASN:H	14	0.34
(1,443)	1:125:A:GLN:H	1:131:A:VAL:H	12	0.34
(1,441)	1:124:A:LEU:H	1:132:A:GLY:H	11	0.34
(1,260)	1:59:A:MET:H	1:85:A:TRP:H	7	0.34
(1,239)	1:51:A:ILE:HD11	1:60:A:ILE:H	19	0.34
(1,239)	1:51:A:ILE:HD12	1:60:A:ILE:H	19	0.34
(1,239)	1:51:A:ILE:HD13	1:60:A:ILE:H	19	0.34
(1,114)	1:37:A:GLU:H	1:39:A:LEU:H	11	0.34
(1,114)	1:37:A:GLU:H	1:39:A:LEU:H	16	0.34
(2,905)	1:165:A:ILE:H	1:203:A:ILE:H	17	0.33
(2,695)	1:125:A:GLN:H	1:132:A:GLY:H	14	0.33
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	12	0.33
(2,680)	1:122:A:ARG:H	1:126:A:VAL:H	7	0.33
(2,679)	1:122:A:ARG:H	1:124:A:LEU:H	14	0.33
(2,550)	1:86:A:VAL:H	1:87:A:ARG:H	10	0.33
(2,426)	1:59:A:MET:H	1:85:A:TRP:HZ3	16	0.33
(2,372)	1:50:A:LEU:H	1:86:A:VAL:H	7	0.33
(2,309)	1:47:A:VAL:H	1:89:A:LYS:H	5	0.33
(2,185)	1:33:A:GLY:H	1:84:A:ALA:H	17	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	16	0.33
(1,260)	1:59:A:MET:H	1:85:A:TRP:H	20	0.33
(1,115)	1:37:A:GLU:H	1:82:A:ARG:H	1	0.33
(1,115)	1:37:A:GLU:H	1:82:A:ARG:H	2	0.33
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	17	0.33
(2,862)	1:150:A:LEU:H	1:153:A:GLN:H	17	0.32
(2,851)	1:149:A:ASN:H	1:152:A:LYS:H	17	0.32
(2,751)	1:139:A:VAL:H	1:142:A:ARG:H	12	0.32
(2,750)	1:139:A:VAL:H	1:177:A:GLY:H	12	0.32
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	2	0.32
(2,352)	1:49:A:VAL:H	1:63:A:TYR:H	3	0.32
(1,538)	1:147:A:LEU:H	1:151:A:ALA:H	17	0.32
(1,348)	1:77:A:GLU:H	1:80:A:GLN:H	19	0.32
(1,107)	1:33:A:GLY:H	1:85:A:TRP:H	11	0.32
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	6	0.32
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	20	0.32
(2,1108)	1:199:A:HIS:H	1:203:A:ILE:H	17	0.31
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	6	0.31
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	15	0.31
(2,544)	1:83:A:SER:H	1:84:A:ALA:H	15	0.31
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	1	0.31
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	1	0.31
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	1	0.31
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	17	0.31
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	18	0.31
(2,426)	1:59:A:MET:H	1:85:A:TRP:HZ3	18	0.31
(2,176)	1:32:A:GLN:H	1:85:A:TRP:HE3	19	0.31
(2,174)	1:31:A:HIS:H	1:34:A:GLU:H	16	0.31
(2,167)	1:30:A:ILE:H	1:87:A:ARG:H	6	0.31
(1,458)	1:129:A:GLU:H	1:133:A:ASN:H	18	0.31
(1,356)	1:85:A:TRP:H	1:87:A:ARG:H	13	0.31
(1,225)	1:50:A:LEU:H	1:59:A:MET:H	7	0.31
(1,104)	1:32:A:GLN:H	1:50:A:LEU:H	11	0.31
(1,104)	1:32:A:GLN:H	1:50:A:LEU:H	18	0.31
(1,41)	1:18:A:CYS:H	1:96:A:GLU:H	16	0.31
(2,1108)	1:199:A:HIS:H	1:203:A:ILE:H	8	0.3
(2,792)	1:143:A:ILE:H	1:177:A:GLY:H	12	0.3
(2,770)	1:140:A:THR:H	1:143:A:ILE:H	10	0.3
(2,695)	1:125:A:GLN:H	1:132:A:GLY:H	4	0.3
(2,695)	1:125:A:GLN:H	1:132:A:GLY:H	17	0.3
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	16	0.3
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	10	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,677)	1:121:A:ALA:H	1:124:A:LEU:H	14	0.3
(2,544)	1:83:A:SER:H	1:84:A:ALA:H	16	0.3
(2,536)	1:77:A:GLU:H	1:78:A:GLU:H	17	0.3
(2,351)	1:49:A:VAL:H	1:61:A:LEU:H	14	0.3
(2,192)	1:36:A:ALA:H	1:80:A:GLN:H	9	0.3
(2,121)	1:26:A:LYS:H	1:27:A:SER:H	11	0.3
(2,120)	1:25:A:SER:H	1:90:A:THR:H	20	0.3
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	11	0.3
(1,475)	1:136:A:PHE:H	1:138:A:ASP:H	15	0.3
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	7	0.3
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	7	0.3
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	7	0.3
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	2	0.3
(1,274)	1:61:A:LEU:H	1:85:A:TRP:H	19	0.3
(1,252)	1:56:A:GLY:H	1:85:A:TRP:HH2	4	0.3
(1,225)	1:50:A:LEU:H	1:59:A:MET:H	1	0.3
(1,107)	1:33:A:GLY:H	1:85:A:TRP:H	1	0.3
(1,107)	1:33:A:GLY:H	1:85:A:TRP:H	2	0.3
(1,97)	1:31:A:HIS:H	1:82:A:ARG:H	12	0.3
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	19	0.29
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD11	10	0.29
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD12	10	0.29
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD13	10	0.29
(2,739)	1:136:A:PHE:H	1:137:A:LEU:H	2	0.29
(2,736)	1:134:A:LEU:HD21	1:136:A:PHE:H	4	0.29
(2,736)	1:134:A:LEU:HD22	1:136:A:PHE:H	4	0.29
(2,736)	1:134:A:LEU:HD23	1:136:A:PHE:H	4	0.29
(2,695)	1:125:A:GLN:H	1:132:A:GLY:H	18	0.29
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	4	0.29
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	20	0.29
(2,679)	1:122:A:ARG:H	1:124:A:LEU:H	5	0.29
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	19	0.29
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	19	0.29
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	19	0.29
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	14	0.29
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	15	0.29
(2,417)	1:56:A:GLY:H	1:57:A:LYS:H	5	0.29
(2,408)	1:53:A:ASP:H	1:55:A:GLU:H	16	0.29
(2,352)	1:49:A:VAL:H	1:63:A:TYR:H	13	0.29
(2,198)	1:37:A:GLU:H	1:80:A:GLN:H	3	0.29
(2,188)	1:34:A:GLU:H	1:82:A:ARG:H	3	0.29
(1,521)	1:146:A:THR:H	1:150:A:LEU:H	12	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	3	0.29
(1,225)	1:50:A:LEU:H	1:59:A:MET:H	3	0.29
(1,97)	1:31:A:HIS:H	1:82:A:ARG:H	2	0.29
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	7	0.29
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	16	0.29
(2,801)	1:144:A:ALA:H	1:147:A:LEU:H	12	0.28
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE1	9	0.28
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE2	9	0.28
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE1	14	0.28
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE2	14	0.28
(2,536)	1:77:A:GLU:H	1:78:A:GLU:H	10	0.28
(2,511)	1:75:A:LEU:H	1:76:A:PHE:H	19	0.28
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	5	0.28
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	6	0.28
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	9	0.28
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	19	0.28
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	20	0.28
(2,426)	1:59:A:MET:H	1:85:A:TRP:HZ3	13	0.28
(2,372)	1:50:A:LEU:H	1:86:A:VAL:H	3	0.28
(2,296)	1:46:A:SER:H	1:90:A:THR:H	14	0.28
(2,192)	1:36:A:ALA:H	1:80:A:GLN:H	2	0.28
(2,192)	1:36:A:ALA:H	1:80:A:GLN:H	18	0.28
(2,123)	1:26:A:LYS:H	1:88:A:ALA:H	13	0.28
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	15	0.28
(1,575)	1:151:A:ALA:H	1:205:A:VAL:H	4	0.28
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	8	0.28
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	14	0.28
(1,343)	1:76:A:PHE:HE1	1:117:A:SER:H	19	0.28
(1,343)	1:76:A:PHE:HE2	1:117:A:SER:H	19	0.28
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	8	0.28
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	11	0.28
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	12	0.28
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	16	0.28
(1,253)	1:56:A:GLY:H	1:85:A:TRP:HZ3	12	0.28
(1,108)	1:33:A:GLY:H	1:85:A:TRP:HH2	16	0.28
(1,97)	1:31:A:HIS:H	1:82:A:ARG:H	7	0.28
(1,97)	1:31:A:HIS:H	1:82:A:ARG:H	10	0.28
(1,70)	1:29:A:LEU:HD21	1:92:A:CYS:H	14	0.28
(1,70)	1:29:A:LEU:HD22	1:92:A:CYS:H	14	0.28
(1,70)	1:29:A:LEU:HD23	1:92:A:CYS:H	14	0.28
(1,55)	1:21:A:HIS:H	1:41:A:TYR:H	16	0.28
(2,1113)	1:200:A:GLY:H	1:203:A:ILE:H	17	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,873)	1:155:A:ASP:H	1:156:A:ALA:H	17	0.27
(2,744)	1:138:A:ASP:H	1:139:A:VAL:H	12	0.27
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	14	0.27
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	17	0.27
(2,662)	1:117:A:SER:H	1:120:A:MET:H	5	0.27
(2,435)	1:60:A:ILE:H	1:176:A:VAL:H	13	0.27
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	1	0.27
(2,408)	1:53:A:ASP:H	1:55:A:GLU:H	4	0.27
(2,408)	1:53:A:ASP:H	1:55:A:GLU:H	20	0.27
(2,367)	1:50:A:LEU:H	1:85:A:TRP:H	2	0.27
(2,296)	1:46:A:SER:H	1:90:A:THR:H	17	0.27
(2,251)	1:42:A:ILE:H	1:68:A:ASP:H	16	0.27
(2,230)	1:40:A:TYR:H	1:97:A:ILE:H	5	0.27
(2,204)	1:39:A:LEU:H	1:97:A:ILE:H	16	0.27
(2,197)	1:37:A:GLU:H	1:99:A:TYR:H	18	0.27
(2,138)	1:29:A:LEU:H	1:86:A:VAL:H	13	0.27
(2,99)	1:21:A:HIS:H	1:96:A:GLU:H	18	0.27
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	20	0.27
(1,575)	1:151:A:ALA:H	1:205:A:VAL:H	12	0.27
(1,556)	1:149:A:ASN:H	1:153:A:GLN:H	17	0.27
(1,513)	1:144:A:ALA:H	1:148:A:LEU:H	8	0.27
(1,513)	1:144:A:ALA:H	1:148:A:LEU:H	18	0.27
(1,475)	1:136:A:PHE:H	1:138:A:ASP:H	7	0.27
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	16	0.27
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	19	0.27
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	16	0.27
(1,305)	1:69:A:PHE:H	1:72:A:GLU:H	11	0.27
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	17	0.27
(1,274)	1:61:A:LEU:H	1:85:A:TRP:H	13	0.27
(1,260)	1:59:A:MET:H	1:85:A:TRP:H	2	0.27
(1,225)	1:50:A:LEU:H	1:59:A:MET:H	2	0.27
(1,108)	1:33:A:GLY:H	1:85:A:TRP:HH2	8	0.27
(2,837)	1:148:A:LEU:H	1:150:A:LEU:H	19	0.26
(2,723)	1:131:A:VAL:H	1:134:A:LEU:HD11	18	0.26
(2,723)	1:131:A:VAL:H	1:134:A:LEU:HD12	18	0.26
(2,723)	1:131:A:VAL:H	1:134:A:LEU:HD13	18	0.26
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	3	0.26
(2,708)	1:127:A:LEU:HD11	1:128:A:ILE:H	9	0.26
(2,708)	1:127:A:LEU:HD12	1:128:A:ILE:H	9	0.26
(2,708)	1:127:A:LEU:HD13	1:128:A:ILE:H	9	0.26
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	5	0.26
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	7	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	14	0.26
(2,680)	1:122:A:ARG:H	1:126:A:VAL:H	10	0.26
(2,677)	1:121:A:ALA:H	1:124:A:LEU:H	2	0.26
(2,648)	1:114:A:MET:H	1:118:A:ALA:H	8	0.26
(2,640)	1:113:A:LEU:H	1:117:A:SER:H	12	0.26
(2,536)	1:77:A:GLU:H	1:78:A:GLU:H	9	0.26
(2,506)	1:74:A:GLY:H	1:75:A:LEU:H	11	0.26
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	2	0.26
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	16	0.26
(2,446)	1:61:A:LEU:HD21	1:134:A:LEU:HD11	3	0.26
(2,446)	1:61:A:LEU:HD21	1:134:A:LEU:HD12	3	0.26
(2,446)	1:61:A:LEU:HD21	1:134:A:LEU:HD13	3	0.26
(2,446)	1:61:A:LEU:HD22	1:134:A:LEU:HD11	3	0.26
(2,446)	1:61:A:LEU:HD22	1:134:A:LEU:HD12	3	0.26
(2,446)	1:61:A:LEU:HD22	1:134:A:LEU:HD13	3	0.26
(2,446)	1:61:A:LEU:HD23	1:134:A:LEU:HD11	3	0.26
(2,446)	1:61:A:LEU:HD23	1:134:A:LEU:HD12	3	0.26
(2,446)	1:61:A:LEU:HD23	1:134:A:LEU:HD13	3	0.26
(2,420)	1:59:A:MET:H	1:60:A:ILE:H	10	0.26
(2,406)	1:53:A:ASP:H	1:57:A:LYS:H	19	0.26
(2,351)	1:49:A:VAL:H	1:61:A:LEU:H	5	0.26
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	15	0.26
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	15	0.26
(2,178)	1:32:A:GLN:H	1:86:A:VAL:H	19	0.26
(2,136)	1:29:A:LEU:H	1:88:A:ALA:H	19	0.26
(2,121)	1:26:A:LYS:H	1:27:A:SER:H	8	0.26
(1,650)	1:174:A:GLN:H	1:178:A:CYS:H	12	0.26
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	10	0.26
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	1	0.26
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	17	0.26
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	8	0.26
(1,443)	1:125:A:GLN:H	1:131:A:VAL:H	1	0.26
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	1	0.26
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	13	0.26
(1,115)	1:37:A:GLU:H	1:82:A:ARG:H	8	0.26
(1,110)	1:35:A:LYS:H	1:37:A:GLU:H	6	0.26
(1,104)	1:32:A:GLN:H	1:50:A:LEU:H	16	0.26
(1,103)	1:32:A:GLN:H	1:82:A:ARG:H	6	0.26
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	15	0.26
(1,72)	1:29:A:LEU:H	1:31:A:HIS:H	20	0.26
(1,62)	1:23:A:TYR:H	1:44:A:LYS:H	5	0.26
(2,891)	1:163:A:MET:H	1:205:A:VAL:H	12	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	4	0.25
(2,777)	1:141:A:GLY:H	1:144:A:ALA:H	15	0.25
(2,736)	1:134:A:LEU:HD21	1:136:A:PHE:H	18	0.25
(2,736)	1:134:A:LEU:HD22	1:136:A:PHE:H	18	0.25
(2,736)	1:134:A:LEU:HD23	1:136:A:PHE:H	18	0.25
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE1	4	0.25
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE2	4	0.25
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE1	20	0.25
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE2	20	0.25
(2,707)	1:126:A:VAL:H	1:132:A:GLY:H	19	0.25
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	3	0.25
(2,640)	1:113:A:LEU:H	1:117:A:SER:H	9	0.25
(2,516)	1:75:A:LEU:H	1:77:A:GLU:H	18	0.25
(2,476)	1:69:A:PHE:H	1:119:A:GLN:H	19	0.25
(2,435)	1:60:A:ILE:H	1:176:A:VAL:H	16	0.25
(2,435)	1:60:A:ILE:H	1:176:A:VAL:H	19	0.25
(2,400)	1:52:A:LYS:H	1:85:A:TRP:HZ3	11	0.25
(2,372)	1:50:A:LEU:H	1:86:A:VAL:H	5	0.25
(2,351)	1:49:A:VAL:H	1:61:A:LEU:H	4	0.25
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	2	0.25
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	12	0.25
(2,230)	1:40:A:TYR:H	1:97:A:ILE:H	16	0.25
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	14	0.25
(2,175)	1:32:A:GLN:H	1:85:A:TRP:H	18	0.25
(1,708)	1:191:A:GLU:H	1:200:A:GLY:H	8	0.25
(1,524)	1:146:A:THR:H	1:176:A:VAL:H	19	0.25
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	11	0.25
(1,463)	1:130:A:LYS:H	1:134:A:LEU:H	10	0.25
(1,305)	1:69:A:PHE:H	1:72:A:GLU:H	18	0.25
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	9	0.25
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	6	0.25
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	15	0.25
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	17	0.25
(1,260)	1:59:A:MET:H	1:85:A:TRP:H	5	0.25
(1,260)	1:59:A:MET:H	1:85:A:TRP:H	9	0.25
(1,229)	1:50:A:LEU:H	1:84:A:ALA:H	14	0.25
(1,114)	1:37:A:GLU:H	1:39:A:LEU:H	5	0.25
(1,108)	1:33:A:GLY:H	1:85:A:TRP:HH2	19	0.25
(1,97)	1:31:A:HIS:H	1:82:A:ARG:H	3	0.25
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	12	0.25
(1,90)	1:30:A:ILE:HD11	1:83:A:SER:H	6	0.25
(1,90)	1:30:A:ILE:HD12	1:83:A:SER:H	6	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,90)	1:30:A:ILE:HD13	1:83:A:SER:H	6	0.25
(1,68)	1:27:A:SER:H	1:92:A:CYS:H	18	0.25
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	1	0.24
(2,799)	1:144:A:ALA:H	1:146:A:THR:H	7	0.24
(2,785)	1:142:A:ARG:H	1:177:A:GLY:H	12	0.24
(2,736)	1:134:A:LEU:HD21	1:136:A:PHE:H	1	0.24
(2,736)	1:134:A:LEU:HD22	1:136:A:PHE:H	1	0.24
(2,736)	1:134:A:LEU:HD23	1:136:A:PHE:H	1	0.24
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	4	0.24
(2,679)	1:122:A:ARG:H	1:124:A:LEU:H	6	0.24
(2,677)	1:121:A:ALA:H	1:124:A:LEU:H	6	0.24
(2,672)	1:120:A:MET:H	1:123:A:ARG:H	19	0.24
(2,662)	1:117:A:SER:H	1:120:A:MET:H	11	0.24
(2,662)	1:117:A:SER:H	1:120:A:MET:H	15	0.24
(2,648)	1:114:A:MET:H	1:118:A:ALA:H	19	0.24
(2,559)	1:93:A:GLU:H	1:94:A:VAL:H	5	0.24
(2,516)	1:75:A:LEU:H	1:77:A:GLU:H	19	0.24
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	11	0.24
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	12	0.24
(2,446)	1:61:A:LEU:HD21	1:134:A:LEU:HD11	9	0.24
(2,446)	1:61:A:LEU:HD21	1:134:A:LEU:HD12	9	0.24
(2,446)	1:61:A:LEU:HD21	1:134:A:LEU:HD13	9	0.24
(2,446)	1:61:A:LEU:HD22	1:134:A:LEU:HD11	9	0.24
(2,446)	1:61:A:LEU:HD22	1:134:A:LEU:HD12	9	0.24
(2,446)	1:61:A:LEU:HD22	1:134:A:LEU:HD13	9	0.24
(2,446)	1:61:A:LEU:HD23	1:134:A:LEU:HD11	9	0.24
(2,446)	1:61:A:LEU:HD23	1:134:A:LEU:HD12	9	0.24
(2,446)	1:61:A:LEU:HD23	1:134:A:LEU:HD13	9	0.24
(2,426)	1:59:A:MET:H	1:85:A:TRP:HZ3	2	0.24
(2,408)	1:53:A:ASP:H	1:55:A:GLU:H	13	0.24
(2,408)	1:53:A:ASP:H	1:55:A:GLU:H	14	0.24
(2,405)	1:52:A:LYS:H	1:85:A:TRP:H	19	0.24
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	10	0.24
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	14	0.24
(2,230)	1:40:A:TYR:H	1:97:A:ILE:H	19	0.24
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	4	0.24
(2,121)	1:26:A:LYS:H	1:27:A:SER:H	20	0.24
(1,650)	1:174:A:GLN:H	1:178:A:CYS:H	6	0.24
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	14	0.24
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	4	0.24
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	9	0.24
(1,475)	1:136:A:PHE:H	1:138:A:ASP:H	16	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,352)	1:81:A:GLU:H	1:83:A:SER:H	11	0.24
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	6	0.24
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	18	0.24
(1,279)	1:62:A:SER:H	1:64:A:LEU:H	14	0.24
(1,260)	1:59:A:MET:H	1:85:A:TRP:H	3	0.24
(1,247)	1:52:A:LYS:H	1:56:A:GLY:H	15	0.24
(1,239)	1:51:A:ILE:HD11	1:60:A:ILE:H	15	0.24
(1,239)	1:51:A:ILE:HD12	1:60:A:ILE:H	15	0.24
(1,239)	1:51:A:ILE:HD13	1:60:A:ILE:H	15	0.24
(1,225)	1:50:A:LEU:H	1:59:A:MET:H	4	0.24
(1,114)	1:37:A:GLU:H	1:39:A:LEU:H	7	0.24
(1,104)	1:32:A:GLN:H	1:50:A:LEU:H	19	0.24
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	8	0.24
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	17	0.23
(2,873)	1:155:A:ASP:H	1:156:A:ALA:H	16	0.23
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	20	0.23
(2,708)	1:127:A:LEU:HD11	1:128:A:ILE:H	6	0.23
(2,708)	1:127:A:LEU:HD12	1:128:A:ILE:H	6	0.23
(2,708)	1:127:A:LEU:HD13	1:128:A:ILE:H	6	0.23
(2,662)	1:117:A:SER:H	1:120:A:MET:H	13	0.23
(2,536)	1:77:A:GLU:H	1:78:A:GLU:H	6	0.23
(2,499)	1:73:A:LEU:H	1:75:A:LEU:H	20	0.23
(2,435)	1:60:A:ILE:H	1:176:A:VAL:H	17	0.23
(2,422)	1:59:A:MET:HE1	1:60:A:ILE:H	13	0.23
(2,422)	1:59:A:MET:HE2	1:60:A:ILE:H	13	0.23
(2,422)	1:59:A:MET:HE3	1:60:A:ILE:H	13	0.23
(2,405)	1:52:A:LYS:H	1:85:A:TRP:H	11	0.23
(2,372)	1:50:A:LEU:H	1:86:A:VAL:H	16	0.23
(2,367)	1:50:A:LEU:H	1:85:A:TRP:H	12	0.23
(2,351)	1:49:A:VAL:H	1:61:A:LEU:H	16	0.23
(2,339)	1:49:A:VAL:H	1:62:A:SER:H	11	0.23
(2,321)	1:47:A:VAL:H	1:90:A:THR:H	5	0.23
(2,296)	1:46:A:SER:H	1:90:A:THR:H	5	0.23
(2,207)	1:39:A:LEU:H	1:99:A:TYR:H	8	0.23
(2,192)	1:36:A:ALA:H	1:80:A:GLN:H	5	0.23
(2,191)	1:36:A:ALA:H	1:82:A:ARG:H	15	0.23
(2,179)	1:32:A:GLN:H	1:34:A:GLU:H	3	0.23
(2,178)	1:32:A:GLN:H	1:86:A:VAL:H	20	0.23
(2,167)	1:30:A:ILE:H	1:87:A:ARG:H	18	0.23
(2,92)	1:19:A:HIS:H	1:96:A:GLU:H	16	0.23
(1,666)	1:178:A:CYS:H	1:182:A:THR:H	12	0.23
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	9	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,521)	1:146:A:THR:H	1:150:A:LEU:H	16	0.23
(1,513)	1:144:A:ALA:H	1:148:A:LEU:H	9	0.23
(1,445)	1:125:A:GLN:H	1:129:A:GLU:H	16	0.23
(1,443)	1:125:A:GLN:H	1:131:A:VAL:H	17	0.23
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	14	0.23
(1,274)	1:61:A:LEU:H	1:85:A:TRP:H	12	0.23
(1,225)	1:50:A:LEU:H	1:59:A:MET:H	5	0.23
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	17	0.23
(1,115)	1:37:A:GLU:H	1:82:A:ARG:H	19	0.23
(1,114)	1:37:A:GLU:H	1:39:A:LEU:H	20	0.23
(1,43)	1:19:A:HIS:H	1:98:A:SER:H	20	0.23
(2,1119)	1:204:A:VAL:H	1:205:A:VAL:H	1	0.22
(2,904)	1:164:A:GLN:H	1:205:A:VAL:H	4	0.22
(2,891)	1:163:A:MET:H	1:205:A:VAL:H	4	0.22
(2,873)	1:155:A:ASP:H	1:156:A:ALA:H	12	0.22
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	10	0.22
(2,839)	1:148:A:LEU:H	1:151:A:ALA:H	12	0.22
(2,792)	1:143:A:ILE:H	1:177:A:GLY:H	15	0.22
(2,744)	1:138:A:ASP:H	1:139:A:VAL:H	8	0.22
(2,718)	1:130:A:LYS:H	1:133:A:ASN:H	10	0.22
(2,708)	1:127:A:LEU:HD11	1:128:A:ILE:H	20	0.22
(2,708)	1:127:A:LEU:HD12	1:128:A:ILE:H	20	0.22
(2,708)	1:127:A:LEU:HD13	1:128:A:ILE:H	20	0.22
(2,662)	1:117:A:SER:H	1:120:A:MET:H	8	0.22
(2,604)	1:105:A:LEU:H	1:108:A:VAL:H	4	0.22
(2,499)	1:73:A:LEU:H	1:75:A:LEU:H	1	0.22
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	7	0.22
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	13	0.22
(2,435)	1:60:A:ILE:H	1:176:A:VAL:H	4	0.22
(2,432)	1:60:A:ILE:H	1:175:A:ILE:H	11	0.22
(2,426)	1:59:A:MET:H	1:85:A:TRP:HZ3	3	0.22
(2,387)	1:51:A:ILE:H	1:59:A:MET:H	4	0.22
(2,372)	1:50:A:LEU:H	1:86:A:VAL:H	20	0.22
(2,339)	1:49:A:VAL:H	1:62:A:SER:H	19	0.22
(2,309)	1:47:A:VAL:H	1:89:A:LYS:H	14	0.22
(2,287)	1:44:A:LYS:H	1:67:A:GLY:H	20	0.22
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	6	0.22
(2,204)	1:39:A:LEU:H	1:97:A:ILE:H	18	0.22
(2,192)	1:36:A:ALA:H	1:80:A:GLN:H	13	0.22
(2,192)	1:36:A:ALA:H	1:80:A:GLN:H	17	0.22
(2,179)	1:32:A:GLN:H	1:34:A:GLU:H	8	0.22
(2,178)	1:32:A:GLN:H	1:86:A:VAL:H	6	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,173)	1:31:A:HIS:H	1:86:A:VAL:H	5	0.22
(2,173)	1:31:A:HIS:H	1:86:A:VAL:H	8	0.22
(2,121)	1:26:A:LYS:H	1:27:A:SER:H	19	0.22
(1,708)	1:191:A:GLU:H	1:200:A:GLY:H	17	0.22
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	8	0.22
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	13	0.22
(1,553)	1:148:A:LEU:H	1:152:A:LYS:H	12	0.22
(1,538)	1:147:A:LEU:H	1:151:A:ALA:H	9	0.22
(1,524)	1:146:A:THR:H	1:176:A:VAL:H	10	0.22
(1,504)	1:143:A:ILE:H	1:176:A:VAL:H	11	0.22
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	7	0.22
(1,356)	1:85:A:TRP:H	1:87:A:ARG:H	17	0.22
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	4	0.22
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	5	0.22
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	8	0.22
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	10	0.22
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	20	0.22
(1,274)	1:61:A:LEU:H	1:85:A:TRP:H	15	0.22
(1,260)	1:59:A:MET:H	1:85:A:TRP:H	16	0.22
(1,254)	1:57:A:LYS:H	1:85:A:TRP:HZ3	5	0.22
(1,104)	1:32:A:GLN:H	1:50:A:LEU:H	4	0.22
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	4	0.22
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	8	0.21
(2,873)	1:155:A:ASP:H	1:156:A:ALA:H	20	0.21
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	5	0.21
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	18	0.21
(2,736)	1:134:A:LEU:HD21	1:136:A:PHE:H	8	0.21
(2,736)	1:134:A:LEU:HD22	1:136:A:PHE:H	8	0.21
(2,736)	1:134:A:LEU:HD23	1:136:A:PHE:H	8	0.21
(2,695)	1:125:A:GLN:H	1:132:A:GLY:H	16	0.21
(2,687)	1:124:A:LEU:H	1:126:A:VAL:H	10	0.21
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	9	0.21
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	11	0.21
(2,576)	1:99:A:TYR:H	1:101:A:LYS:H	9	0.21
(2,576)	1:99:A:TYR:H	1:101:A:LYS:H	17	0.21
(2,506)	1:74:A:GLY:H	1:75:A:LEU:H	1	0.21
(2,499)	1:73:A:LEU:H	1:75:A:LEU:H	15	0.21
(2,499)	1:73:A:LEU:H	1:75:A:LEU:H	16	0.21
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	4	0.21
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	10	0.21
(2,435)	1:60:A:ILE:H	1:176:A:VAL:H	9	0.21
(2,435)	1:60:A:ILE:H	1:176:A:VAL:H	12	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,432)	1:60:A:ILE:H	1:175:A:ILE:H	6	0.21
(2,420)	1:59:A:MET:H	1:60:A:ILE:H	18	0.21
(2,412)	1:53:A:ASP:H	1:59:A:MET:H	18	0.21
(2,400)	1:52:A:LYS:H	1:85:A:TRP:HZ3	18	0.21
(2,392)	1:51:A:ILE:H	1:60:A:ILE:H	20	0.21
(2,352)	1:49:A:VAL:H	1:63:A:TYR:H	9	0.21
(2,351)	1:49:A:VAL:H	1:61:A:LEU:H	7	0.21
(2,351)	1:49:A:VAL:H	1:61:A:LEU:H	20	0.21
(2,309)	1:47:A:VAL:H	1:89:A:LYS:H	10	0.21
(2,304)	1:47:A:VAL:H	1:64:A:LEU:H	14	0.21
(2,301)	1:46:A:SER:H	1:91:A:ALA:H	11	0.21
(2,301)	1:46:A:SER:H	1:91:A:ALA:H	18	0.21
(2,287)	1:44:A:LYS:H	1:67:A:GLY:H	16	0.21
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	3	0.21
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	7	0.21
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	9	0.21
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	17	0.21
(2,178)	1:32:A:GLN:H	1:86:A:VAL:H	13	0.21
(2,173)	1:31:A:HIS:H	1:86:A:VAL:H	18	0.21
(2,167)	1:30:A:ILE:H	1:87:A:ARG:H	11	0.21
(2,123)	1:26:A:LYS:H	1:88:A:ALA:H	14	0.21
(2,118)	1:25:A:SER:H	1:27:A:SER:H	1	0.21
(2,116)	1:25:A:SER:H	1:91:A:ALA:H	11	0.21
(2,100)	1:21:A:HIS:H	1:94:A:VAL:H	5	0.21
(2,98)	1:20:A:ILE:H	1:96:A:GLU:H	20	0.21
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	12	0.21
(1,597)	1:162:A:GLY:H	1:164:A:GLN:H	12	0.21
(1,502)	1:143:A:ILE:H	1:178:A:CYS:H	15	0.21
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	12	0.21
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	14	0.21
(1,475)	1:136:A:PHE:H	1:138:A:ASP:H	5	0.21
(1,475)	1:136:A:PHE:H	1:138:A:ASP:H	12	0.21
(1,475)	1:136:A:PHE:H	1:138:A:ASP:H	19	0.21
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	5	0.21
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	12	0.21
(1,433)	1:120:A:MET:H	1:124:A:LEU:H	10	0.21
(1,393)	1:105:A:LEU:H	1:109:A:ASN:H	17	0.21
(1,376)	1:100:A:LYS:H	1:104:A:GLN:H	19	0.21
(1,356)	1:85:A:TRP:H	1:87:A:ARG:H	2	0.21
(1,305)	1:69:A:PHE:H	1:72:A:GLU:H	16	0.21
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	15	0.21
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	19	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,247)	1:52:A:LYS:H	1:56:A:GLY:H	1	0.21
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	18	0.21
(1,115)	1:37:A:GLU:H	1:82:A:ARG:H	18	0.21
(1,114)	1:37:A:GLU:H	1:39:A:LEU:H	8	0.21
(1,106)	1:33:A:GLY:H	1:36:A:ALA:H	8	0.21
(1,97)	1:31:A:HIS:H	1:82:A:ARG:H	8	0.21
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	9	0.2
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	15	0.2
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	19	0.2
(2,989)	1:181:A:GLU:H	1:183:A:VAL:H	6	0.2
(2,929)	1:169:A:ARG:H	1:171:A:GLU:H	3	0.2
(2,924)	1:167:A:ILE:HD11	1:175:A:ILE:HD11	15	0.2
(2,924)	1:167:A:ILE:HD11	1:175:A:ILE:HD12	15	0.2
(2,924)	1:167:A:ILE:HD11	1:175:A:ILE:HD13	15	0.2
(2,924)	1:167:A:ILE:HD12	1:175:A:ILE:HD11	15	0.2
(2,924)	1:167:A:ILE:HD12	1:175:A:ILE:HD12	15	0.2
(2,924)	1:167:A:ILE:HD12	1:175:A:ILE:HD13	15	0.2
(2,924)	1:167:A:ILE:HD13	1:175:A:ILE:HD11	15	0.2
(2,924)	1:167:A:ILE:HD13	1:175:A:ILE:HD12	15	0.2
(2,924)	1:167:A:ILE:HD13	1:175:A:ILE:HD13	15	0.2
(2,904)	1:164:A:GLN:H	1:205:A:VAL:H	12	0.2
(2,875)	1:156:A:ALA:H	1:164:A:GLN:H	6	0.2
(2,875)	1:156:A:ALA:H	1:164:A:GLN:H	12	0.2
(2,874)	1:156:A:ALA:H	1:157:A:MET:H	17	0.2
(2,867)	1:151:A:ALA:H	1:153:A:GLN:H	12	0.2
(2,837)	1:148:A:LEU:H	1:150:A:LEU:H	1	0.2
(2,806)	1:146:A:THR:H	1:147:A:LEU:H	11	0.2
(2,774)	1:141:A:GLY:H	1:142:A:ARG:H	14	0.2
(2,771)	1:140:A:THR:H	1:142:A:ARG:H	10	0.2
(2,757)	1:139:A:VAL:H	1:178:A:CYS:H	6	0.2
(2,736)	1:134:A:LEU:HD21	1:136:A:PHE:H	3	0.2
(2,736)	1:134:A:LEU:HD22	1:136:A:PHE:H	3	0.2
(2,736)	1:134:A:LEU:HD23	1:136:A:PHE:H	3	0.2
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	1	0.2
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	2	0.2
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	7	0.2
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	19	0.2
(2,677)	1:121:A:ALA:H	1:124:A:LEU:H	4	0.2
(2,661)	1:117:A:SER:H	1:119:A:GLN:H	10	0.2
(2,640)	1:113:A:LEU:H	1:117:A:SER:H	11	0.2
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	7	0.2
(2,576)	1:99:A:TYR:H	1:101:A:LYS:H	12	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,555)	1:88:A:ALA:H	1:90:A:THR:H	20	0.2
(2,544)	1:83:A:SER:H	1:84:A:ALA:H	14	0.2
(2,506)	1:74:A:GLY:H	1:75:A:LEU:H	14	0.2
(2,506)	1:74:A:GLY:H	1:75:A:LEU:H	16	0.2
(2,476)	1:69:A:PHE:H	1:119:A:GLN:H	12	0.2
(2,476)	1:69:A:PHE:H	1:119:A:GLN:H	17	0.2
(2,426)	1:59:A:MET:H	1:85:A:TRP:HZ3	19	0.2
(2,417)	1:56:A:GLY:H	1:57:A:LYS:H	2	0.2
(2,417)	1:56:A:GLY:H	1:57:A:LYS:H	3	0.2
(2,417)	1:56:A:GLY:H	1:57:A:LYS:H	7	0.2
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	4	0.2
(2,415)	1:55:A:GLU:H	1:56:A:GLY:H	18	0.2
(2,412)	1:53:A:ASP:H	1:59:A:MET:H	19	0.2
(2,408)	1:53:A:ASP:H	1:55:A:GLU:H	15	0.2
(2,387)	1:51:A:ILE:H	1:59:A:MET:H	13	0.2
(2,352)	1:49:A:VAL:H	1:63:A:TYR:H	20	0.2
(2,351)	1:49:A:VAL:H	1:61:A:LEU:H	12	0.2
(2,296)	1:46:A:SER:H	1:90:A:THR:H	13	0.2
(2,289)	1:44:A:LYS:H	1:94:A:VAL:H	16	0.2
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	1	0.2
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	4	0.2
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	13	0.2
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	18	0.2
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	19	0.2
(2,242)	1:41:A:TYR:H	1:96:A:GLU:H	11	0.2
(2,230)	1:40:A:TYR:H	1:97:A:ILE:H	20	0.2
(2,182)	1:32:A:GLN:H	1:85:A:TRP:HH2	18	0.2
(2,178)	1:32:A:GLN:H	1:86:A:VAL:H	5	0.2
(2,131)	1:29:A:LEU:H	1:30:A:ILE:H	5	0.2
(2,118)	1:25:A:SER:H	1:27:A:SER:H	4	0.2
(2,107)	1:23:A:TYR:H	1:92:A:CYS:H	18	0.2
(1,583)	1:156:A:ALA:H	1:166:A:LYS:H	12	0.2
(1,524)	1:146:A:THR:H	1:176:A:VAL:H	1	0.2
(1,524)	1:146:A:THR:H	1:176:A:VAL:H	4	0.2
(1,513)	1:144:A:ALA:H	1:148:A:LEU:H	3	0.2
(1,513)	1:144:A:ALA:H	1:148:A:LEU:H	11	0.2
(1,475)	1:136:A:PHE:H	1:138:A:ASP:H	13	0.2
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	11	0.2
(1,443)	1:125:A:GLN:H	1:131:A:VAL:H	16	0.2
(1,356)	1:85:A:TRP:H	1:87:A:ARG:H	12	0.2
(1,348)	1:77:A:GLU:H	1:80:A:GLN:H	1	0.2
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	7	0.2
(1,292)	1:65:A:ASN:H	1:69:A:PHE:H	14	0.2
(1,274)	1:61:A:LEU:H	1:85:A:TRP:H	9	0.2
(1,265)	1:60:A:ILE:H	1:62:A:SER:H	16	0.2
(1,253)	1:56:A:GLY:H	1:85:A:TRP:HZ3	5	0.2
(1,253)	1:56:A:GLY:H	1:85:A:TRP:HZ3	13	0.2
(1,225)	1:50:A:LEU:H	1:59:A:MET:H	13	0.2
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	5	0.2
(1,72)	1:29:A:LEU:H	1:31:A:HIS:H	19	0.2
(1,55)	1:21:A:HIS:H	1:41:A:TYR:H	5	0.2
(2,1119)	1:204:A:VAL:H	1:205:A:VAL:H	20	0.19
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	1	0.19
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	20	0.19
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	8	0.19
(2,957)	1:173:A:GLY:H	1:184:A:GLY:H	17	0.19
(2,905)	1:165:A:ILE:H	1:203:A:ILE:H	8	0.19
(2,899)	1:163:A:MET:H	1:206:A:TYR:H	12	0.19
(2,882)	1:159:A:HIS:H	1:161:A:ASP:H	12	0.19
(2,873)	1:155:A:ASP:H	1:156:A:ALA:H	14	0.19
(2,873)	1:155:A:ASP:H	1:156:A:ALA:H	19	0.19
(2,774)	1:141:A:GLY:H	1:142:A:ARG:H	3	0.19
(2,739)	1:136:A:PHE:H	1:137:A:LEU:H	19	0.19
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE1	18	0.19
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE2	18	0.19
(2,723)	1:131:A:VAL:H	1:134:A:LEU:HD11	11	0.19
(2,723)	1:131:A:VAL:H	1:134:A:LEU:HD12	11	0.19
(2,723)	1:131:A:VAL:H	1:134:A:LEU:HD13	11	0.19
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	5	0.19
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	11	0.19
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	15	0.19
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	4	0.19
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	13	0.19
(2,679)	1:122:A:ARG:H	1:124:A:LEU:H	20	0.19
(2,671)	1:120:A:MET:H	1:122:A:ARG:H	12	0.19
(2,662)	1:117:A:SER:H	1:120:A:MET:H	17	0.19
(2,640)	1:113:A:LEU:H	1:117:A:SER:H	19	0.19
(2,636)	1:113:A:LEU:H	1:116:A:LEU:H	5	0.19
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	15	0.19
(2,576)	1:99:A:TYR:H	1:101:A:LYS:H	14	0.19
(2,529)	1:76:A:PHE:H	1:77:A:GLU:H	19	0.19
(2,506)	1:74:A:GLY:H	1:75:A:LEU:H	13	0.19
(2,476)	1:69:A:PHE:H	1:119:A:GLN:H	15	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	1	0.19
(2,422)	1:59:A:MET:HE1	1:60:A:ILE:H	6	0.19
(2,422)	1:59:A:MET:HE2	1:60:A:ILE:H	6	0.19
(2,422)	1:59:A:MET:HE3	1:60:A:ILE:H	6	0.19
(2,412)	1:53:A:ASP:H	1:59:A:MET:H	11	0.19
(2,408)	1:53:A:ASP:H	1:55:A:GLU:H	5	0.19
(2,400)	1:52:A:LYS:H	1:85:A:TRP:HZ3	13	0.19
(2,397)	1:51:A:ILE:H	1:85:A:TRP:HZ3	18	0.19
(2,395)	1:51:A:ILE:H	1:85:A:TRP:H	18	0.19
(2,392)	1:51:A:ILE:H	1:60:A:ILE:H	10	0.19
(2,389)	1:51:A:ILE:H	1:85:A:TRP:HE3	4	0.19
(2,368)	1:50:A:LEU:H	1:87:A:ARG:H	12	0.19
(2,367)	1:50:A:LEU:H	1:85:A:TRP:H	17	0.19
(2,352)	1:49:A:VAL:H	1:63:A:TYR:H	1	0.19
(2,352)	1:49:A:VAL:H	1:63:A:TYR:H	8	0.19
(2,352)	1:49:A:VAL:H	1:63:A:TYR:H	19	0.19
(2,278)	1:43:A:VAL:H	1:94:A:VAL:H	16	0.19
(2,251)	1:42:A:ILE:H	1:68:A:ASP:H	20	0.19
(2,207)	1:39:A:LEU:H	1:99:A:TYR:H	20	0.19
(2,197)	1:37:A:GLU:H	1:99:A:TYR:H	15	0.19
(2,187)	1:33:A:GLY:H	1:81:A:GLU:H	7	0.19
(2,182)	1:32:A:GLN:H	1:85:A:TRP:HH2	1	0.19
(2,178)	1:32:A:GLN:H	1:86:A:VAL:H	15	0.19
(2,173)	1:31:A:HIS:H	1:86:A:VAL:H	11	0.19
(2,170)	1:30:A:ILE:H	1:88:A:ALA:H	19	0.19
(2,138)	1:29:A:LEU:H	1:86:A:VAL:H	3	0.19
(2,131)	1:29:A:LEU:H	1:30:A:ILE:H	12	0.19
(2,121)	1:26:A:LYS:H	1:27:A:SER:H	14	0.19
(2,121)	1:26:A:LYS:H	1:27:A:SER:H	17	0.19
(2,91)	1:18:A:CYS:H	1:20:A:ILE:H	10	0.19
(1,682)	1:186:A:ILE:H	1:190:A:LEU:H	16	0.19
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	19	0.19
(1,585)	1:157:A:MET:H	1:159:A:HIS:H	10	0.19
(1,583)	1:156:A:ALA:H	1:166:A:LYS:H	20	0.19
(1,524)	1:146:A:THR:H	1:176:A:VAL:H	13	0.19
(1,513)	1:144:A:ALA:H	1:148:A:LEU:H	15	0.19
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	15	0.19
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	4	0.19
(1,376)	1:100:A:LYS:H	1:104:A:GLN:H	14	0.19
(1,365)	1:93:A:GLU:H	1:95:A:ALA:H	5	0.19
(1,305)	1:69:A:PHE:H	1:72:A:GLU:H	4	0.19
(1,305)	1:69:A:PHE:H	1:72:A:GLU:H	12	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	3	0.19
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	7	0.19
(1,257)	1:58:A:GLU:H	1:85:A:TRP:HZ3	17	0.19
(1,247)	1:52:A:LYS:H	1:56:A:GLY:H	6	0.19
(1,115)	1:37:A:GLU:H	1:82:A:ARG:H	15	0.19
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	6	0.19
(1,112)	1:36:A:ALA:H	1:83:A:SER:H	19	0.19
(1,108)	1:33:A:GLY:H	1:85:A:TRP:HH2	20	0.19
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	1	0.19
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	10	0.19
(1,72)	1:29:A:LEU:H	1:31:A:HIS:H	16	0.19
(1,72)	1:29:A:LEU:H	1:31:A:HIS:H	17	0.19
(2,1113)	1:200:A:GLY:H	1:203:A:ILE:H	8	0.18
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	3	0.18
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	6	0.18
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	10	0.18
(2,1100)	1:198:A:ALA:H	1:199:A:HIS:H	19	0.18
(2,975)	1:177:A:GLY:H	1:178:A:CYS:H	13	0.18
(2,970)	1:176:A:VAL:H	1:177:A:GLY:H	12	0.18
(2,961)	1:174:A:GLN:H	1:180:A:ARG:H	10	0.18
(2,957)	1:173:A:GLY:H	1:184:A:GLY:H	3	0.18
(2,957)	1:173:A:GLY:H	1:184:A:GLY:H	7	0.18
(2,851)	1:149:A:ASN:H	1:152:A:LYS:H	15	0.18
(2,807)	1:146:A:THR:H	1:148:A:LEU:H	10	0.18
(2,792)	1:143:A:ILE:H	1:177:A:GLY:H	3	0.18
(2,774)	1:141:A:GLY:H	1:142:A:ARG:H	4	0.18
(2,759)	1:139:A:VAL:H	1:143:A:ILE:H	12	0.18
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE1	2	0.18
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE2	2	0.18
(2,723)	1:131:A:VAL:H	1:134:A:LEU:HD11	13	0.18
(2,723)	1:131:A:VAL:H	1:134:A:LEU:HD12	13	0.18
(2,723)	1:131:A:VAL:H	1:134:A:LEU:HD13	13	0.18
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	12	0.18
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	20	0.18
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	1	0.18
(2,682)	1:123:A:ARG:H	1:124:A:LEU:H	15	0.18
(2,679)	1:122:A:ARG:H	1:124:A:LEU:H	2	0.18
(2,677)	1:121:A:ALA:H	1:124:A:LEU:H	20	0.18
(2,662)	1:117:A:SER:H	1:120:A:MET:H	1	0.18
(2,661)	1:117:A:SER:H	1:119:A:GLN:H	12	0.18
(2,636)	1:113:A:LEU:H	1:116:A:LEU:H	19	0.18
(2,614)	1:106:A:ILE:H	1:109:A:ASN:H	17	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,576)	1:99:A:TYR:H	1:101:A:LYS:H	10	0.18
(2,576)	1:99:A:TYR:H	1:101:A:LYS:H	20	0.18
(2,516)	1:75:A:LEU:H	1:77:A:GLU:H	8	0.18
(2,513)	1:75:A:LEU:H	1:99:A:TYR:HE1	6	0.18
(2,513)	1:75:A:LEU:H	1:99:A:TYR:HE2	6	0.18
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	17	0.18
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	17	0.18
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	17	0.18
(2,503)	1:73:A:LEU:HD11	1:84:A:ALA:H	18	0.18
(2,503)	1:73:A:LEU:HD12	1:84:A:ALA:H	18	0.18
(2,503)	1:73:A:LEU:HD13	1:84:A:ALA:H	18	0.18
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	8	0.18
(2,440)	1:61:A:LEU:H	1:62:A:SER:H	8	0.18
(2,435)	1:60:A:ILE:H	1:176:A:VAL:H	18	0.18
(2,433)	1:60:A:ILE:H	1:61:A:LEU:H	11	0.18
(2,426)	1:59:A:MET:H	1:85:A:TRP:HZ3	1	0.18
(2,400)	1:52:A:LYS:H	1:85:A:TRP:HZ3	19	0.18
(2,395)	1:51:A:ILE:H	1:85:A:TRP:H	2	0.18
(2,395)	1:51:A:ILE:H	1:85:A:TRP:H	10	0.18
(2,395)	1:51:A:ILE:H	1:85:A:TRP:H	15	0.18
(2,392)	1:51:A:ILE:H	1:60:A:ILE:H	17	0.18
(2,389)	1:51:A:ILE:H	1:85:A:TRP:HE3	8	0.18
(2,380)	1:50:A:LEU:H	1:62:A:SER:H	15	0.18
(2,368)	1:50:A:LEU:H	1:87:A:ARG:H	20	0.18
(2,367)	1:50:A:LEU:H	1:85:A:TRP:H	13	0.18
(2,365)	1:50:A:LEU:HD21	1:87:A:ARG:H	14	0.18
(2,365)	1:50:A:LEU:HD22	1:87:A:ARG:H	14	0.18
(2,365)	1:50:A:LEU:HD23	1:87:A:ARG:H	14	0.18
(2,335)	1:48:A:ALA:H	1:64:A:LEU:H	19	0.18
(2,321)	1:47:A:VAL:H	1:90:A:THR:H	20	0.18
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	11	0.18
(2,251)	1:42:A:ILE:H	1:68:A:ASP:H	11	0.18
(2,197)	1:37:A:GLU:H	1:99:A:TYR:H	8	0.18
(2,179)	1:32:A:GLN:H	1:34:A:GLU:H	7	0.18
(2,172)	1:31:A:HIS:H	1:32:A:GLN:H	18	0.18
(2,118)	1:25:A:SER:H	1:27:A:SER:H	10	0.18
(2,110)	1:23:A:TYR:H	1:93:A:GLU:H	11	0.18
(2,91)	1:18:A:CYS:H	1:20:A:ILE:H	18	0.18
(2,55)	1:14:A:PHE:H	1:16:A:SER:H	13	0.18
(1,664)	1:177:A:GLY:H	1:179:A:SER:H	6	0.18
(1,647)	1:173:A:GLY:H	1:183:A:VAL:H	7	0.18
(1,583)	1:156:A:ALA:H	1:166:A:LYS:H	16	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,582)	1:155:A:ASP:H	1:157:A:MET:H	19	0.18
(1,532)	1:147:A:LEU:H	1:165:A:ILE:HD11	14	0.18
(1,532)	1:147:A:LEU:H	1:165:A:ILE:HD12	14	0.18
(1,532)	1:147:A:LEU:H	1:165:A:ILE:HD13	14	0.18
(1,521)	1:146:A:THR:H	1:150:A:LEU:H	4	0.18
(1,521)	1:146:A:THR:H	1:150:A:LEU:H	8	0.18
(1,504)	1:143:A:ILE:H	1:176:A:VAL:H	9	0.18
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	6	0.18
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	13	0.18
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	18	0.18
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	19	0.18
(1,475)	1:136:A:PHE:H	1:138:A:ASP:H	11	0.18
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	1	0.18
(1,445)	1:125:A:GLN:H	1:129:A:GLU:H	17	0.18
(1,443)	1:125:A:GLN:H	1:131:A:VAL:H	4	0.18
(1,402)	1:107:A:GLN:H	1:113:A:LEU:H	13	0.18
(1,402)	1:107:A:GLN:H	1:113:A:LEU:H	14	0.18
(1,402)	1:107:A:GLN:H	1:113:A:LEU:H	18	0.18
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	15	0.18
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	20	0.18
(1,354)	1:84:A:ALA:H	1:86:A:VAL:H	13	0.18
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	11	0.18
(1,265)	1:60:A:ILE:H	1:62:A:SER:H	17	0.18
(1,260)	1:59:A:MET:H	1:85:A:TRP:H	4	0.18
(1,260)	1:59:A:MET:H	1:85:A:TRP:H	10	0.18
(1,257)	1:58:A:GLU:H	1:85:A:TRP:HZ3	12	0.18
(1,194)	1:47:A:VAL:H	1:49:A:VAL:H	14	0.18
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	16	0.18
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	20	0.18
(1,178)	1:45:A:GLY:H	1:92:A:CYS:H	5	0.18
(1,115)	1:37:A:GLU:H	1:82:A:ARG:H	16	0.18
(1,107)	1:33:A:GLY:H	1:85:A:TRP:H	13	0.18
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	13	0.18
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	19	0.18
(1,72)	1:29:A:LEU:H	1:31:A:HIS:H	6	0.18
(1,62)	1:23:A:TYR:H	1:44:A:LYS:H	11	0.18
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	7	0.17
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	13	0.17
(2,989)	1:181:A:GLU:H	1:183:A:VAL:H	3	0.17
(2,975)	1:177:A:GLY:H	1:178:A:CYS:H	12	0.17
(2,970)	1:176:A:VAL:H	1:177:A:GLY:H	13	0.17
(2,963)	1:175:A:ILE:H	1:176:A:VAL:H	2	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,957)	1:173:A:GLY:H	1:184:A:GLY:H	15	0.17
(2,899)	1:163:A:MET:H	1:206:A:TYR:H	4	0.17
(2,882)	1:159:A:HIS:H	1:161:A:ASP:H	7	0.17
(2,876)	1:157:A:MET:H	1:164:A:GLN:H	20	0.17
(2,873)	1:155:A:ASP:H	1:156:A:ALA:H	6	0.17
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	2	0.17
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	17	0.17
(2,857)	1:150:A:LEU:H	1:152:A:LYS:H	4	0.17
(2,839)	1:148:A:LEU:H	1:151:A:ALA:H	9	0.17
(2,807)	1:146:A:THR:H	1:148:A:LEU:H	13	0.17
(2,799)	1:144:A:ALA:H	1:146:A:THR:H	14	0.17
(2,781)	1:142:A:ARG:H	1:144:A:ALA:H	4	0.17
(2,781)	1:142:A:ARG:H	1:144:A:ALA:H	15	0.17
(2,774)	1:141:A:GLY:H	1:142:A:ARG:H	8	0.17
(2,720)	1:131:A:VAL:H	1:132:A:GLY:H	6	0.17
(2,683)	1:123:A:ARG:H	1:125:A:GLN:H	15	0.17
(2,676)	1:121:A:ALA:H	1:124:A:LEU:HD11	3	0.17
(2,676)	1:121:A:ALA:H	1:124:A:LEU:HD12	3	0.17
(2,676)	1:121:A:ALA:H	1:124:A:LEU:HD13	3	0.17
(2,676)	1:121:A:ALA:H	1:124:A:LEU:HD11	9	0.17
(2,676)	1:121:A:ALA:H	1:124:A:LEU:HD12	9	0.17
(2,676)	1:121:A:ALA:H	1:124:A:LEU:HD13	9	0.17
(2,667)	1:119:A:GLN:H	1:120:A:MET:H	19	0.17
(2,648)	1:114:A:MET:H	1:118:A:ALA:H	14	0.17
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	2	0.17
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	5	0.17
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	6	0.17
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	9	0.17
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	11	0.17
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	16	0.17
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	19	0.17
(2,576)	1:99:A:TYR:H	1:101:A:LYS:H	11	0.17
(2,576)	1:99:A:TYR:H	1:101:A:LYS:H	19	0.17
(2,544)	1:83:A:SER:H	1:84:A:ALA:H	6	0.17
(2,511)	1:75:A:LEU:H	1:76:A:PHE:H	14	0.17
(2,507)	1:74:A:GLY:H	1:99:A:TYR:HE1	19	0.17
(2,507)	1:74:A:GLY:H	1:99:A:TYR:HE2	19	0.17
(2,499)	1:73:A:LEU:H	1:75:A:LEU:H	2	0.17
(2,437)	1:60:A:ILE:H	1:174:A:GLN:H	15	0.17
(2,435)	1:60:A:ILE:H	1:176:A:VAL:H	11	0.17
(2,432)	1:60:A:ILE:H	1:175:A:ILE:H	15	0.17
(2,397)	1:51:A:ILE:H	1:85:A:TRP:HZ3	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,395)	1:51:A:ILE:H	1:85:A:TRP:H	7	0.17
(2,395)	1:51:A:ILE:H	1:85:A:TRP:H	9	0.17
(2,387)	1:51:A:ILE:H	1:59:A:MET:H	10	0.17
(2,368)	1:50:A:LEU:H	1:87:A:ARG:H	17	0.17
(2,352)	1:49:A:VAL:H	1:63:A:TYR:H	18	0.17
(2,351)	1:49:A:VAL:H	1:61:A:LEU:H	6	0.17
(2,297)	1:46:A:SER:H	1:89:A:LYS:H	14	0.17
(2,296)	1:46:A:SER:H	1:90:A:THR:H	19	0.17
(2,289)	1:44:A:LYS:H	1:94:A:VAL:H	19	0.17
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	8	0.17
(2,265)	1:42:A:ILE:H	1:69:A:PHE:H	19	0.17
(2,258)	1:42:A:ILE:H	1:67:A:GLY:H	16	0.17
(2,218)	1:39:A:LEU:HD11	1:73:A:LEU:H	19	0.17
(2,218)	1:39:A:LEU:HD12	1:73:A:LEU:H	19	0.17
(2,218)	1:39:A:LEU:HD13	1:73:A:LEU:H	19	0.17
(2,207)	1:39:A:LEU:H	1:99:A:TYR:H	1	0.17
(2,185)	1:33:A:GLY:H	1:84:A:ALA:H	1	0.17
(2,179)	1:32:A:GLN:H	1:34:A:GLU:H	19	0.17
(2,178)	1:32:A:GLN:H	1:86:A:VAL:H	10	0.17
(2,170)	1:30:A:ILE:H	1:88:A:ALA:H	8	0.17
(2,167)	1:30:A:ILE:H	1:87:A:ARG:H	9	0.17
(2,145)	1:29:A:LEU:H	1:87:A:ARG:H	11	0.17
(2,118)	1:25:A:SER:H	1:27:A:SER:H	3	0.17
(2,118)	1:25:A:SER:H	1:27:A:SER:H	12	0.17
(2,101)	1:21:A:HIS:H	1:95:A:ALA:H	20	0.17
(2,99)	1:21:A:HIS:H	1:96:A:GLU:H	7	0.17
(2,55)	1:14:A:PHE:H	1:16:A:SER:H	8	0.17
(1,708)	1:191:A:GLU:H	1:200:A:GLY:H	16	0.17
(1,647)	1:173:A:GLY:H	1:183:A:VAL:H	1	0.17
(1,647)	1:173:A:GLY:H	1:183:A:VAL:H	3	0.17
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	5	0.17
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	7	0.17
(1,585)	1:157:A:MET:H	1:159:A:HIS:H	5	0.17
(1,582)	1:155:A:ASP:H	1:157:A:MET:H	20	0.17
(1,524)	1:146:A:THR:H	1:176:A:VAL:H	16	0.17
(1,524)	1:146:A:THR:H	1:176:A:VAL:H	17	0.17
(1,519)	1:145:A:GLN:H	1:149:A:ASN:H	18	0.17
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	10	0.17
(1,475)	1:136:A:PHE:H	1:138:A:ASP:H	9	0.17
(1,475)	1:136:A:PHE:H	1:138:A:ASP:H	18	0.17
(1,455)	1:126:A:VAL:H	1:131:A:VAL:H	19	0.17
(1,447)	1:126:A:VAL:H	1:129:A:GLU:H	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,439)	1:124:A:LEU:H	1:127:A:LEU:H	18	0.17
(1,402)	1:107:A:GLN:H	1:113:A:LEU:H	1	0.17
(1,361)	1:87:A:ARG:H	1:89:A:LYS:H	5	0.17
(1,348)	1:77:A:GLU:H	1:80:A:GLN:H	8	0.17
(1,322)	1:73:A:LEU:HD21	1:83:A:SER:H	13	0.17
(1,322)	1:73:A:LEU:HD22	1:83:A:SER:H	13	0.17
(1,322)	1:73:A:LEU:HD23	1:83:A:SER:H	13	0.17
(1,305)	1:69:A:PHE:H	1:72:A:GLU:H	10	0.17
(1,292)	1:65:A:ASN:H	1:69:A:PHE:H	4	0.17
(1,274)	1:61:A:LEU:H	1:85:A:TRP:H	1	0.17
(1,274)	1:61:A:LEU:H	1:85:A:TRP:H	6	0.17
(1,274)	1:61:A:LEU:H	1:85:A:TRP:H	11	0.17
(1,251)	1:56:A:GLY:H	1:58:A:GLU:H	16	0.17
(1,235)	1:51:A:ILE:H	1:62:A:SER:H	8	0.17
(1,136)	1:39:A:LEU:H	1:103:A:ARG:H	3	0.17
(1,116)	1:37:A:GLU:H	1:79:A:GLY:H	4	0.17
(1,104)	1:32:A:GLN:H	1:50:A:LEU:H	7	0.17
(1,104)	1:32:A:GLN:H	1:50:A:LEU:H	10	0.17
(1,103)	1:32:A:GLN:H	1:82:A:ARG:H	14	0.17
(1,103)	1:32:A:GLN:H	1:82:A:ARG:H	15	0.17
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	3	0.17
(1,72)	1:29:A:LEU:H	1:31:A:HIS:H	8	0.17
(2,989)	1:181:A:GLU:H	1:183:A:VAL:H	12	0.16
(2,970)	1:176:A:VAL:H	1:177:A:GLY:H	4	0.16
(2,957)	1:173:A:GLY:H	1:184:A:GLY:H	1	0.16
(2,957)	1:173:A:GLY:H	1:184:A:GLY:H	10	0.16
(2,929)	1:169:A:ARG:H	1:171:A:GLU:H	7	0.16
(2,929)	1:169:A:ARG:H	1:171:A:GLU:H	9	0.16
(2,882)	1:159:A:HIS:H	1:161:A:ASP:H	4	0.16
(2,862)	1:150:A:LEU:H	1:153:A:GLN:H	6	0.16
(2,837)	1:148:A:LEU:H	1:150:A:LEU:H	2	0.16
(2,824)	1:147:A:LEU:H	1:150:A:LEU:H	4	0.16
(2,824)	1:147:A:LEU:H	1:150:A:LEU:H	15	0.16
(2,824)	1:147:A:LEU:H	1:150:A:LEU:H	19	0.16
(2,807)	1:146:A:THR:H	1:148:A:LEU:H	8	0.16
(2,807)	1:146:A:THR:H	1:148:A:LEU:H	15	0.16
(2,792)	1:143:A:ILE:H	1:177:A:GLY:H	4	0.16
(2,792)	1:143:A:ILE:H	1:177:A:GLY:H	13	0.16
(2,792)	1:143:A:ILE:H	1:177:A:GLY:H	16	0.16
(2,773)	1:140:A:THR:H	1:186:A:ILE:H	1	0.16
(2,773)	1:140:A:THR:H	1:186:A:ILE:H	8	0.16
(2,773)	1:140:A:THR:H	1:186:A:ILE:H	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,751)	1:139:A:VAL:H	1:142:A:ARG:H	5	0.16
(2,739)	1:136:A:PHE:H	1:137:A:LEU:H	10	0.16
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE1	8	0.16
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE2	8	0.16
(2,723)	1:131:A:VAL:H	1:134:A:LEU:HD11	8	0.16
(2,723)	1:131:A:VAL:H	1:134:A:LEU:HD12	8	0.16
(2,723)	1:131:A:VAL:H	1:134:A:LEU:HD13	8	0.16
(2,718)	1:130:A:LYS:H	1:133:A:ASN:H	7	0.16
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	10	0.16
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	16	0.16
(2,695)	1:125:A:GLN:H	1:132:A:GLY:H	5	0.16
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	8	0.16
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	18	0.16
(2,679)	1:122:A:ARG:H	1:124:A:LEU:H	18	0.16
(2,648)	1:114:A:MET:H	1:118:A:ALA:H	20	0.16
(2,640)	1:113:A:LEU:H	1:117:A:SER:H	13	0.16
(2,636)	1:113:A:LEU:H	1:116:A:LEU:H	16	0.16
(2,597)	1:103:A:ARG:H	1:106:A:ILE:H	18	0.16
(2,597)	1:103:A:ARG:H	1:106:A:ILE:H	20	0.16
(2,576)	1:99:A:TYR:H	1:101:A:LYS:H	4	0.16
(2,543)	1:82:A:ARG:H	1:84:A:ALA:H	20	0.16
(2,539)	1:79:A:GLY:H	1:80:A:GLN:H	9	0.16
(2,511)	1:75:A:LEU:H	1:76:A:PHE:H	1	0.16
(2,508)	1:74:A:GLY:H	1:76:A:PHE:H	19	0.16
(2,506)	1:74:A:GLY:H	1:75:A:LEU:H	9	0.16
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	8	0.16
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	12	0.16
(2,426)	1:59:A:MET:H	1:85:A:TRP:HZ3	7	0.16
(2,420)	1:59:A:MET:H	1:60:A:ILE:H	17	0.16
(2,417)	1:56:A:GLY:H	1:57:A:LYS:H	10	0.16
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	14	0.16
(2,387)	1:51:A:ILE:H	1:59:A:MET:H	20	0.16
(2,352)	1:49:A:VAL:H	1:63:A:TYR:H	11	0.16
(2,352)	1:49:A:VAL:H	1:63:A:TYR:H	16	0.16
(2,335)	1:48:A:ALA:H	1:64:A:LEU:H	11	0.16
(2,335)	1:48:A:ALA:H	1:64:A:LEU:H	13	0.16
(2,335)	1:48:A:ALA:H	1:64:A:LEU:H	18	0.16
(2,321)	1:47:A:VAL:H	1:90:A:THR:H	4	0.16
(2,321)	1:47:A:VAL:H	1:90:A:THR:H	15	0.16
(2,309)	1:47:A:VAL:H	1:89:A:LYS:H	4	0.16
(2,296)	1:46:A:SER:H	1:90:A:THR:H	7	0.16
(2,296)	1:46:A:SER:H	1:90:A:THR:H	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,296)	1:46:A:SER:H	1:90:A:THR:H	9	0.16
(2,296)	1:46:A:SER:H	1:90:A:THR:H	10	0.16
(2,296)	1:46:A:SER:H	1:90:A:THR:H	15	0.16
(2,251)	1:42:A:ILE:H	1:68:A:ASP:H	8	0.16
(2,220)	1:39:A:LEU:H	1:102:A:PHE:H	2	0.16
(2,207)	1:39:A:LEU:H	1:99:A:TYR:H	13	0.16
(2,167)	1:30:A:ILE:H	1:87:A:ARG:H	10	0.16
(2,157)	1:30:A:ILE:H	1:86:A:VAL:H	15	0.16
(2,136)	1:29:A:LEU:H	1:88:A:ALA:H	8	0.16
(2,131)	1:29:A:LEU:H	1:30:A:ILE:H	13	0.16
(2,118)	1:25:A:SER:H	1:27:A:SER:H	7	0.16
(2,55)	1:14:A:PHE:H	1:16:A:SER:H	3	0.16
(1,666)	1:178:A:CYS:H	1:182:A:THR:H	6	0.16
(1,647)	1:173:A:GLY:H	1:183:A:VAL:H	15	0.16
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	3	0.16
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	18	0.16
(1,538)	1:147:A:LEU:H	1:151:A:ALA:H	5	0.16
(1,538)	1:147:A:LEU:H	1:151:A:ALA:H	6	0.16
(1,524)	1:146:A:THR:H	1:176:A:VAL:H	8	0.16
(1,506)	1:143:A:ILE:H	1:147:A:LEU:H	12	0.16
(1,495)	1:140:A:THR:H	1:183:A:VAL:H	16	0.16
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	5	0.16
(1,475)	1:136:A:PHE:H	1:138:A:ASP:H	8	0.16
(1,461)	1:130:A:LYS:H	1:146:A:THR:H	11	0.16
(1,445)	1:125:A:GLN:H	1:129:A:GLU:H	15	0.16
(1,406)	1:108:A:VAL:H	1:112:A:ILE:H	4	0.16
(1,402)	1:107:A:GLN:H	1:113:A:LEU:H	10	0.16
(1,376)	1:100:A:LYS:H	1:104:A:GLN:H	12	0.16
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	8	0.16
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	18	0.16
(1,310)	1:70:A:ILE:H	1:95:A:ALA:H	19	0.16
(1,305)	1:69:A:PHE:H	1:72:A:GLU:H	14	0.16
(1,301)	1:69:A:PHE:H	1:120:A:MET:H	14	0.16
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	12	0.16
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	13	0.16
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	18	0.16
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	4	0.16
(1,260)	1:59:A:MET:H	1:85:A:TRP:H	17	0.16
(1,252)	1:56:A:GLY:H	1:85:A:TRP:HH2	5	0.16
(1,252)	1:56:A:GLY:H	1:85:A:TRP:HH2	14	0.16
(1,251)	1:56:A:GLY:H	1:58:A:GLU:H	20	0.16
(1,246)	1:52:A:LYS:H	1:57:A:LYS:H	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,235)	1:51:A:ILE:H	1:62:A:SER:H	7	0.16
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	14	0.16
(1,178)	1:45:A:GLY:H	1:92:A:CYS:H	12	0.16
(1,140)	1:40:A:TYR:H	1:73:A:LEU:H	16	0.16
(1,115)	1:37:A:GLU:H	1:82:A:ARG:H	4	0.16
(1,115)	1:37:A:GLU:H	1:82:A:ARG:H	7	0.16
(1,111)	1:36:A:ALA:H	1:79:A:GLY:H	7	0.16
(1,106)	1:33:A:GLY:H	1:36:A:ALA:H	3	0.16
(1,106)	1:33:A:GLY:H	1:36:A:ALA:H	6	0.16
(1,104)	1:32:A:GLN:H	1:50:A:LEU:H	12	0.16
(1,104)	1:32:A:GLN:H	1:50:A:LEU:H	15	0.16
(2,1119)	1:204:A:VAL:H	1:205:A:VAL:H	6	0.15
(2,1119)	1:204:A:VAL:H	1:205:A:VAL:H	8	0.15
(2,1119)	1:204:A:VAL:H	1:205:A:VAL:H	9	0.15
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	5	0.15
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	13	0.15
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	17	0.15
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	16	0.15
(2,1032)	1:187:A:LEU:H	1:191:A:GLU:H	16	0.15
(2,975)	1:177:A:GLY:H	1:178:A:CYS:H	4	0.15
(2,975)	1:177:A:GLY:H	1:178:A:CYS:H	6	0.15
(2,975)	1:177:A:GLY:H	1:178:A:CYS:H	9	0.15
(2,975)	1:177:A:GLY:H	1:178:A:CYS:H	11	0.15
(2,970)	1:176:A:VAL:H	1:177:A:GLY:H	1	0.15
(2,970)	1:176:A:VAL:H	1:177:A:GLY:H	9	0.15
(2,963)	1:175:A:ILE:H	1:176:A:VAL:H	3	0.15
(2,957)	1:173:A:GLY:H	1:184:A:GLY:H	9	0.15
(2,940)	1:171:A:GLU:H	1:174:A:GLN:H	17	0.15
(2,929)	1:169:A:ARG:H	1:171:A:GLU:H	1	0.15
(2,929)	1:169:A:ARG:H	1:171:A:GLU:H	6	0.15
(2,913)	1:165:A:ILE:H	1:205:A:VAL:H	17	0.15
(2,882)	1:159:A:HIS:H	1:161:A:ASP:H	2	0.15
(2,882)	1:159:A:HIS:H	1:161:A:ASP:H	8	0.15
(2,882)	1:159:A:HIS:H	1:161:A:ASP:H	10	0.15
(2,882)	1:159:A:HIS:H	1:161:A:ASP:H	14	0.15
(2,882)	1:159:A:HIS:H	1:161:A:ASP:H	16	0.15
(2,873)	1:155:A:ASP:H	1:156:A:ALA:H	13	0.15
(2,870)	1:152:A:LYS:H	1:153:A:GLN:H	12	0.15
(2,867)	1:151:A:ALA:H	1:153:A:GLN:H	10	0.15
(2,862)	1:150:A:LEU:H	1:153:A:GLN:H	5	0.15
(2,839)	1:148:A:LEU:H	1:151:A:ALA:H	20	0.15
(2,824)	1:147:A:LEU:H	1:150:A:LEU:H	12	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,807)	1:146:A:THR:H	1:148:A:LEU:H	7	0.15
(2,807)	1:146:A:THR:H	1:148:A:LEU:H	11	0.15
(2,807)	1:146:A:THR:H	1:148:A:LEU:H	12	0.15
(2,792)	1:143:A:ILE:H	1:177:A:GLY:H	8	0.15
(2,792)	1:143:A:ILE:H	1:177:A:GLY:H	17	0.15
(2,781)	1:142:A:ARG:H	1:144:A:ALA:H	14	0.15
(2,777)	1:141:A:GLY:H	1:144:A:ALA:H	19	0.15
(2,774)	1:141:A:GLY:H	1:142:A:ARG:H	9	0.15
(2,774)	1:141:A:GLY:H	1:142:A:ARG:H	20	0.15
(2,773)	1:140:A:THR:H	1:186:A:ILE:H	4	0.15
(2,773)	1:140:A:THR:H	1:186:A:ILE:H	13	0.15
(2,771)	1:140:A:THR:H	1:142:A:ARG:H	20	0.15
(2,744)	1:138:A:ASP:H	1:139:A:VAL:H	17	0.15
(2,739)	1:136:A:PHE:H	1:137:A:LEU:H	15	0.15
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE1	16	0.15
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE2	16	0.15
(2,681)	1:122:A:ARG:H	1:125:A:GLN:H	12	0.15
(2,680)	1:122:A:ARG:H	1:126:A:VAL:H	8	0.15
(2,679)	1:122:A:ARG:H	1:124:A:LEU:H	7	0.15
(2,679)	1:122:A:ARG:H	1:124:A:LEU:H	10	0.15
(2,677)	1:121:A:ALA:H	1:124:A:LEU:H	12	0.15
(2,662)	1:117:A:SER:H	1:120:A:MET:H	7	0.15
(2,640)	1:113:A:LEU:H	1:117:A:SER:H	5	0.15
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	4	0.15
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	20	0.15
(2,597)	1:103:A:ARG:H	1:106:A:ILE:H	14	0.15
(2,576)	1:99:A:TYR:H	1:101:A:LYS:H	2	0.15
(2,576)	1:99:A:TYR:H	1:101:A:LYS:H	7	0.15
(2,558)	1:92:A:CYS:H	1:94:A:VAL:H	2	0.15
(2,555)	1:88:A:ALA:H	1:90:A:THR:H	5	0.15
(2,540)	1:80:A:GLN:H	1:81:A:GLU:H	11	0.15
(2,511)	1:75:A:LEU:H	1:76:A:PHE:H	4	0.15
(2,511)	1:75:A:LEU:H	1:76:A:PHE:H	20	0.15
(2,506)	1:74:A:GLY:H	1:75:A:LEU:H	17	0.15
(2,499)	1:73:A:LEU:H	1:75:A:LEU:H	3	0.15
(2,499)	1:73:A:LEU:H	1:75:A:LEU:H	17	0.15
(2,498)	1:73:A:LEU:H	1:74:A:GLY:H	19	0.15
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	3	0.15
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	18	0.15
(2,446)	1:61:A:LEU:HD21	1:134:A:LEU:HD11	8	0.15
(2,446)	1:61:A:LEU:HD21	1:134:A:LEU:HD12	8	0.15
(2,446)	1:61:A:LEU:HD21	1:134:A:LEU:HD13	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,446)	1:61:A:LEU:HD22	1:134:A:LEU:HD11	8	0.15
(2,446)	1:61:A:LEU:HD22	1:134:A:LEU:HD12	8	0.15
(2,446)	1:61:A:LEU:HD22	1:134:A:LEU:HD13	8	0.15
(2,446)	1:61:A:LEU:HD23	1:134:A:LEU:HD11	8	0.15
(2,446)	1:61:A:LEU:HD23	1:134:A:LEU:HD12	8	0.15
(2,446)	1:61:A:LEU:HD23	1:134:A:LEU:HD13	8	0.15
(2,440)	1:61:A:LEU:H	1:62:A:SER:H	3	0.15
(2,435)	1:60:A:ILE:H	1:176:A:VAL:H	6	0.15
(2,424)	1:59:A:MET:H	1:85:A:TRP:HE3	11	0.15
(2,417)	1:56:A:GLY:H	1:57:A:LYS:H	9	0.15
(2,409)	1:53:A:ASP:H	1:54:A:GLU:H	16	0.15
(2,406)	1:53:A:ASP:H	1:57:A:LYS:H	2	0.15
(2,392)	1:51:A:ILE:H	1:60:A:ILE:H	18	0.15
(2,388)	1:51:A:ILE:H	1:61:A:LEU:H	11	0.15
(2,388)	1:51:A:ILE:H	1:61:A:LEU:H	14	0.15
(2,368)	1:50:A:LEU:H	1:87:A:ARG:H	8	0.15
(2,368)	1:50:A:LEU:H	1:87:A:ARG:H	14	0.15
(2,351)	1:49:A:VAL:H	1:61:A:LEU:H	2	0.15
(2,351)	1:49:A:VAL:H	1:61:A:LEU:H	3	0.15
(2,321)	1:47:A:VAL:H	1:90:A:THR:H	7	0.15
(2,296)	1:46:A:SER:H	1:90:A:THR:H	18	0.15
(2,289)	1:44:A:LYS:H	1:94:A:VAL:H	12	0.15
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	5	0.15
(2,227)	1:40:A:TYR:H	1:70:A:ILE:H	19	0.15
(2,220)	1:39:A:LEU:H	1:102:A:PHE:H	15	0.15
(2,214)	1:39:A:LEU:H	1:98:A:SER:H	8	0.15
(2,197)	1:37:A:GLU:H	1:99:A:TYR:H	16	0.15
(2,192)	1:36:A:ALA:H	1:80:A:GLN:H	3	0.15
(2,192)	1:36:A:ALA:H	1:80:A:GLN:H	6	0.15
(2,186)	1:33:A:GLY:H	1:83:A:SER:H	14	0.15
(2,181)	1:32:A:GLN:H	1:85:A:TRP:HZ3	18	0.15
(2,173)	1:31:A:HIS:H	1:86:A:VAL:H	1	0.15
(2,173)	1:31:A:HIS:H	1:86:A:VAL:H	9	0.15
(2,161)	1:30:A:ILE:H	1:31:A:HIS:H	11	0.15
(2,132)	1:29:A:LEU:HD11	1:88:A:ALA:H	19	0.15
(2,132)	1:29:A:LEU:HD12	1:88:A:ALA:H	19	0.15
(2,132)	1:29:A:LEU:HD13	1:88:A:ALA:H	19	0.15
(2,118)	1:25:A:SER:H	1:27:A:SER:H	6	0.15
(2,110)	1:23:A:TYR:H	1:93:A:GLU:H	14	0.15
(2,107)	1:23:A:TYR:H	1:92:A:CYS:H	14	0.15
(2,100)	1:21:A:HIS:H	1:94:A:VAL:H	18	0.15
(2,91)	1:18:A:CYS:H	1:20:A:ILE:H	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,62)	1:14:A:PHE:H	1:17:A:HIS:H	20	0.15
(2,55)	1:14:A:PHE:H	1:16:A:SER:H	14	0.15
(1,717)	1:197:A:SER:H	1:199:A:HIS:H	16	0.15
(1,709)	1:191:A:GLU:H	1:197:A:SER:H	16	0.15
(1,658)	1:175:A:ILE:H	1:177:A:GLY:H	2	0.15
(1,650)	1:174:A:GLN:H	1:178:A:CYS:H	19	0.15
(1,650)	1:174:A:GLN:H	1:178:A:CYS:H	20	0.15
(1,633)	1:169:A:ARG:H	1:184:A:GLY:H	12	0.15
(1,592)	1:161:A:ASP:H	1:207:A:GLY:H	4	0.15
(1,583)	1:156:A:ALA:H	1:166:A:LYS:H	1	0.15
(1,583)	1:156:A:ALA:H	1:166:A:LYS:H	19	0.15
(1,582)	1:155:A:ASP:H	1:157:A:MET:H	1	0.15
(1,538)	1:147:A:LEU:H	1:151:A:ALA:H	4	0.15
(1,524)	1:146:A:THR:H	1:176:A:VAL:H	5	0.15
(1,524)	1:146:A:THR:H	1:176:A:VAL:H	11	0.15
(1,524)	1:146:A:THR:H	1:176:A:VAL:H	14	0.15
(1,524)	1:146:A:THR:H	1:176:A:VAL:H	15	0.15
(1,513)	1:144:A:ALA:H	1:148:A:LEU:H	17	0.15
(1,502)	1:143:A:ILE:H	1:178:A:CYS:H	1	0.15
(1,502)	1:143:A:ILE:H	1:178:A:CYS:H	19	0.15
(1,496)	1:141:A:GLY:H	1:177:A:GLY:H	12	0.15
(1,495)	1:140:A:THR:H	1:183:A:VAL:H	20	0.15
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	16	0.15
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	13	0.15
(1,406)	1:108:A:VAL:H	1:112:A:ILE:H	15	0.15
(1,402)	1:107:A:GLN:H	1:113:A:LEU:H	3	0.15
(1,376)	1:100:A:LYS:H	1:104:A:GLN:H	18	0.15
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	14	0.15
(1,361)	1:87:A:ARG:H	1:89:A:LYS:H	18	0.15
(1,356)	1:85:A:TRP:H	1:87:A:ARG:H	15	0.15
(1,310)	1:70:A:ILE:H	1:95:A:ALA:H	11	0.15
(1,308)	1:70:A:ILE:H	1:73:A:LEU:H	7	0.15
(1,308)	1:70:A:ILE:H	1:73:A:LEU:H	11	0.15
(1,292)	1:65:A:ASN:H	1:69:A:PHE:H	5	0.15
(1,292)	1:65:A:ASN:H	1:69:A:PHE:H	8	0.15
(1,292)	1:65:A:ASN:H	1:69:A:PHE:H	11	0.15
(1,292)	1:65:A:ASN:H	1:69:A:PHE:H	20	0.15
(1,225)	1:50:A:LEU:H	1:59:A:MET:H	8	0.15
(1,225)	1:50:A:LEU:H	1:59:A:MET:H	17	0.15
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	19	0.15
(1,140)	1:40:A:TYR:H	1:73:A:LEU:H	20	0.15
(1,72)	1:29:A:LEU:H	1:31:A:HIS:H	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,52)	1:21:A:HIS:H	1:23:A:TYR:H	5	0.15
(1,41)	1:18:A:CYS:H	1:96:A:GLU:H	5	0.15
(2,1112)	1:200:A:GLY:H	1:204:A:VAL:H	16	0.14
(2,1104)	1:199:A:HIS:H	1:204:A:VAL:H	8	0.14
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	16	0.14
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	19	0.14
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	4	0.14
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	6	0.14
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	11	0.14
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	20	0.14
(2,993)	1:182:A:THR:H	1:183:A:VAL:H	6	0.14
(2,993)	1:182:A:THR:H	1:183:A:VAL:H	12	0.14
(2,991)	1:181:A:GLU:H	1:185:A:ARG:H	10	0.14
(2,991)	1:181:A:GLU:H	1:185:A:ARG:H	17	0.14
(2,989)	1:181:A:GLU:H	1:183:A:VAL:H	13	0.14
(2,975)	1:177:A:GLY:H	1:178:A:CYS:H	2	0.14
(2,970)	1:176:A:VAL:H	1:177:A:GLY:H	6	0.14
(2,970)	1:176:A:VAL:H	1:177:A:GLY:H	19	0.14
(2,957)	1:173:A:GLY:H	1:184:A:GLY:H	6	0.14
(2,929)	1:169:A:ARG:H	1:171:A:GLU:H	8	0.14
(2,929)	1:169:A:ARG:H	1:171:A:GLU:H	15	0.14
(2,882)	1:159:A:HIS:H	1:161:A:ASP:H	1	0.14
(2,876)	1:157:A:MET:H	1:164:A:GLN:H	19	0.14
(2,873)	1:155:A:ASP:H	1:156:A:ALA:H	1	0.14
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	16	0.14
(2,853)	1:150:A:LEU:H	1:151:A:ALA:H	20	0.14
(2,807)	1:146:A:THR:H	1:148:A:LEU:H	18	0.14
(2,799)	1:144:A:ALA:H	1:146:A:THR:H	4	0.14
(2,799)	1:144:A:ALA:H	1:146:A:THR:H	5	0.14
(2,782)	1:142:A:ARG:H	1:143:A:ILE:HD11	3	0.14
(2,782)	1:142:A:ARG:H	1:143:A:ILE:HD12	3	0.14
(2,782)	1:142:A:ARG:H	1:143:A:ILE:HD13	3	0.14
(2,779)	1:141:A:GLY:H	1:145:A:GLN:H	6	0.14
(2,773)	1:140:A:THR:H	1:186:A:ILE:H	6	0.14
(2,773)	1:140:A:THR:H	1:186:A:ILE:H	7	0.14
(2,773)	1:140:A:THR:H	1:186:A:ILE:H	15	0.14
(2,773)	1:140:A:THR:H	1:186:A:ILE:H	16	0.14
(2,759)	1:139:A:VAL:H	1:143:A:ILE:H	5	0.14
(2,757)	1:139:A:VAL:H	1:178:A:CYS:H	20	0.14
(2,662)	1:117:A:SER:H	1:120:A:MET:H	19	0.14
(2,648)	1:114:A:MET:H	1:118:A:ALA:H	5	0.14
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	12	0.14
(2,604)	1:105:A:LEU:H	1:108:A:VAL:H	17	0.14
(2,597)	1:103:A:ARG:H	1:106:A:ILE:H	8	0.14
(2,585)	1:102:A:PHE:H	1:103:A:ARG:H	16	0.14
(2,555)	1:88:A:ALA:H	1:90:A:THR:H	14	0.14
(2,542)	1:82:A:ARG:H	1:83:A:SER:H	15	0.14
(2,536)	1:77:A:GLU:H	1:78:A:GLU:H	2	0.14
(2,511)	1:75:A:LEU:H	1:76:A:PHE:H	5	0.14
(2,511)	1:75:A:LEU:H	1:76:A:PHE:H	17	0.14
(2,476)	1:69:A:PHE:H	1:119:A:GLN:H	20	0.14
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	7	0.14
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	9	0.14
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	13	0.14
(2,433)	1:60:A:ILE:H	1:61:A:LEU:H	13	0.14
(2,432)	1:60:A:ILE:H	1:175:A:ILE:H	19	0.14
(2,425)	1:59:A:MET:H	1:61:A:LEU:H	13	0.14
(2,409)	1:53:A:ASP:H	1:54:A:GLU:H	20	0.14
(2,405)	1:52:A:LYS:H	1:85:A:TRP:H	10	0.14
(2,380)	1:50:A:LEU:H	1:62:A:SER:H	13	0.14
(2,368)	1:50:A:LEU:H	1:87:A:ARG:H	10	0.14
(2,365)	1:50:A:LEU:HD21	1:87:A:ARG:H	20	0.14
(2,365)	1:50:A:LEU:HD22	1:87:A:ARG:H	20	0.14
(2,365)	1:50:A:LEU:HD23	1:87:A:ARG:H	20	0.14
(2,352)	1:49:A:VAL:H	1:63:A:TYR:H	6	0.14
(2,352)	1:49:A:VAL:H	1:63:A:TYR:H	17	0.14
(2,339)	1:49:A:VAL:H	1:62:A:SER:H	16	0.14
(2,334)	1:48:A:ALA:H	1:49:A:VAL:H	14	0.14
(2,321)	1:47:A:VAL:H	1:90:A:THR:H	1	0.14
(2,321)	1:47:A:VAL:H	1:90:A:THR:H	6	0.14
(2,321)	1:47:A:VAL:H	1:90:A:THR:H	9	0.14
(2,321)	1:47:A:VAL:H	1:90:A:THR:H	16	0.14
(2,309)	1:47:A:VAL:H	1:89:A:LYS:H	19	0.14
(2,304)	1:47:A:VAL:H	1:64:A:LEU:H	9	0.14
(2,296)	1:46:A:SER:H	1:90:A:THR:H	2	0.14
(2,296)	1:46:A:SER:H	1:90:A:THR:H	6	0.14
(2,289)	1:44:A:LYS:H	1:94:A:VAL:H	3	0.14
(2,289)	1:44:A:LYS:H	1:94:A:VAL:H	4	0.14
(2,258)	1:42:A:ILE:H	1:67:A:GLY:H	5	0.14
(2,258)	1:42:A:ILE:H	1:67:A:GLY:H	20	0.14
(2,251)	1:42:A:ILE:H	1:68:A:ASP:H	5	0.14
(2,251)	1:42:A:ILE:H	1:68:A:ASP:H	9	0.14
(2,242)	1:41:A:TYR:H	1:96:A:GLU:H	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,240)	1:41:A:TYR:H	1:43:A:VAL:H	6	0.14
(2,235)	1:41:A:TYR:H	1:95:A:ALA:H	1	0.14
(2,220)	1:39:A:LEU:H	1:102:A:PHE:H	9	0.14
(2,220)	1:39:A:LEU:H	1:102:A:PHE:H	19	0.14
(2,207)	1:39:A:LEU:H	1:99:A:TYR:H	16	0.14
(2,181)	1:32:A:GLN:H	1:85:A:TRP:HZ3	13	0.14
(2,179)	1:32:A:GLN:H	1:34:A:GLU:H	16	0.14
(2,178)	1:32:A:GLN:H	1:86:A:VAL:H	3	0.14
(2,178)	1:32:A:GLN:H	1:86:A:VAL:H	12	0.14
(2,176)	1:32:A:GLN:H	1:85:A:TRP:HE3	9	0.14
(2,174)	1:31:A:HIS:H	1:34:A:GLU:H	20	0.14
(2,170)	1:30:A:ILE:H	1:88:A:ALA:H	6	0.14
(2,131)	1:29:A:LEU:H	1:30:A:ILE:H	20	0.14
(2,118)	1:25:A:SER:H	1:27:A:SER:H	2	0.14
(2,118)	1:25:A:SER:H	1:27:A:SER:H	15	0.14
(2,110)	1:23:A:TYR:H	1:93:A:GLU:H	18	0.14
(2,101)	1:21:A:HIS:H	1:95:A:ALA:H	16	0.14
(2,99)	1:21:A:HIS:H	1:96:A:GLU:H	10	0.14
(2,91)	1:18:A:CYS:H	1:20:A:ILE:H	4	0.14
(2,91)	1:18:A:CYS:H	1:20:A:ILE:H	6	0.14
(2,91)	1:18:A:CYS:H	1:20:A:ILE:H	7	0.14
(2,55)	1:14:A:PHE:H	1:16:A:SER:H	1	0.14
(2,55)	1:14:A:PHE:H	1:16:A:SER:H	5	0.14
(2,55)	1:14:A:PHE:H	1:16:A:SER:H	18	0.14
(1,664)	1:177:A:GLY:H	1:179:A:SER:H	4	0.14
(1,664)	1:177:A:GLY:H	1:179:A:SER:H	11	0.14
(1,652)	1:174:A:GLN:H	1:179:A:SER:H	12	0.14
(1,652)	1:174:A:GLN:H	1:179:A:SER:H	13	0.14
(1,650)	1:174:A:GLN:H	1:178:A:CYS:H	15	0.14
(1,638)	1:171:A:GLU:H	1:175:A:ILE:H	17	0.14
(1,638)	1:171:A:GLU:H	1:175:A:ILE:H	19	0.14
(1,629)	1:169:A:ARG:H	1:201:A:LYS:H	16	0.14
(1,627)	1:168:A:THR:H	1:203:A:ILE:H	19	0.14
(1,556)	1:149:A:ASN:H	1:153:A:GLN:H	3	0.14
(1,521)	1:146:A:THR:H	1:150:A:LEU:H	18	0.14
(1,502)	1:143:A:ILE:H	1:178:A:CYS:H	18	0.14
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	15	0.14
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	17	0.14
(1,463)	1:130:A:LYS:H	1:134:A:LEU:H	14	0.14
(1,445)	1:125:A:GLN:H	1:129:A:GLU:H	4	0.14
(1,406)	1:108:A:VAL:H	1:112:A:ILE:H	12	0.14
(1,386)	1:103:A:ARG:H	1:107:A:GLN:H	19	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	2	0.14
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	9	0.14
(1,352)	1:81:A:GLU:H	1:83:A:SER:H	19	0.14
(1,308)	1:70:A:ILE:H	1:73:A:LEU:H	5	0.14
(1,305)	1:69:A:PHE:H	1:72:A:GLU:H	9	0.14
(1,292)	1:65:A:ASN:H	1:69:A:PHE:H	1	0.14
(1,292)	1:65:A:ASN:H	1:69:A:PHE:H	16	0.14
(1,292)	1:65:A:ASN:H	1:69:A:PHE:H	19	0.14
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	1	0.14
(1,274)	1:61:A:LEU:H	1:85:A:TRP:H	2	0.14
(1,265)	1:60:A:ILE:H	1:62:A:SER:H	3	0.14
(1,260)	1:59:A:MET:H	1:85:A:TRP:H	15	0.14
(1,225)	1:50:A:LEU:H	1:59:A:MET:H	12	0.14
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	7	0.14
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	9	0.14
(1,178)	1:45:A:GLY:H	1:92:A:CYS:H	19	0.14
(1,160)	1:42:A:ILE:H	1:65:A:ASN:H	7	0.14
(1,140)	1:40:A:TYR:H	1:73:A:LEU:H	18	0.14
(1,140)	1:40:A:TYR:H	1:73:A:LEU:H	19	0.14
(1,106)	1:33:A:GLY:H	1:36:A:ALA:H	14	0.14
(1,104)	1:32:A:GLN:H	1:50:A:LEU:H	17	0.14
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	5	0.14
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	9	0.14
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	18	0.14
(1,95)	1:30:A:ILE:H	1:50:A:LEU:H	18	0.14
(1,88)	1:30:A:ILE:H	1:32:A:GLN:H	14	0.14
(1,72)	1:29:A:LEU:H	1:31:A:HIS:H	4	0.14
(1,41)	1:18:A:CYS:H	1:96:A:GLU:H	3	0.14
(1,41)	1:18:A:CYS:H	1:96:A:GLU:H	20	0.14
(1,10)	1:12:A:GLU:H	1:16:A:SER:H	1	0.14
(2,1119)	1:204:A:VAL:H	1:205:A:VAL:H	3	0.13
(2,1119)	1:204:A:VAL:H	1:205:A:VAL:H	10	0.13
(2,1104)	1:199:A:HIS:H	1:204:A:VAL:H	17	0.13
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	4	0.13
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	12	0.13
(2,1100)	1:198:A:ALA:H	1:199:A:HIS:H	17	0.13
(2,1062)	1:191:A:GLU:H	1:198:A:ALA:H	16	0.13
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	2	0.13
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	9	0.13
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	12	0.13
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	15	0.13
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	8	0.13
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	17	0.13
(2,993)	1:182:A:THR:H	1:183:A:VAL:H	2	0.13
(2,993)	1:182:A:THR:H	1:183:A:VAL:H	13	0.13
(2,989)	1:181:A:GLU:H	1:183:A:VAL:H	7	0.13
(2,989)	1:181:A:GLU:H	1:183:A:VAL:H	9	0.13
(2,989)	1:181:A:GLU:H	1:183:A:VAL:H	17	0.13
(2,989)	1:181:A:GLU:H	1:183:A:VAL:H	20	0.13
(2,980)	1:179:A:SER:H	1:181:A:GLU:H	11	0.13
(2,975)	1:177:A:GLY:H	1:178:A:CYS:H	1	0.13
(2,975)	1:177:A:GLY:H	1:178:A:CYS:H	19	0.13
(2,963)	1:175:A:ILE:H	1:176:A:VAL:H	5	0.13
(2,963)	1:175:A:ILE:H	1:176:A:VAL:H	16	0.13
(2,935)	1:170:A:GLN:H	1:171:A:GLU:H	6	0.13
(2,932)	1:169:A:ARG:H	1:173:A:GLY:H	12	0.13
(2,929)	1:169:A:ARG:H	1:171:A:GLU:H	17	0.13
(2,913)	1:165:A:ILE:H	1:205:A:VAL:H	7	0.13
(2,912)	1:165:A:ILE:H	1:167:A:ILE:H	14	0.13
(2,882)	1:159:A:HIS:H	1:161:A:ASP:H	19	0.13
(2,881)	1:159:A:HIS:H	1:164:A:GLN:H	4	0.13
(2,880)	1:159:A:HIS:H	1:162:A:GLY:H	4	0.13
(2,880)	1:159:A:HIS:H	1:162:A:GLY:H	10	0.13
(2,876)	1:157:A:MET:H	1:164:A:GLN:H	11	0.13
(2,873)	1:155:A:ASP:H	1:156:A:ALA:H	4	0.13
(2,873)	1:155:A:ASP:H	1:156:A:ALA:H	18	0.13
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	3	0.13
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	8	0.13
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	14	0.13
(2,839)	1:148:A:LEU:H	1:151:A:ALA:H	6	0.13
(2,807)	1:146:A:THR:H	1:148:A:LEU:H	9	0.13
(2,806)	1:146:A:THR:H	1:147:A:LEU:H	4	0.13
(2,806)	1:146:A:THR:H	1:147:A:LEU:H	18	0.13
(2,806)	1:146:A:THR:H	1:147:A:LEU:H	19	0.13
(2,792)	1:143:A:ILE:H	1:177:A:GLY:H	1	0.13
(2,792)	1:143:A:ILE:H	1:177:A:GLY:H	6	0.13
(2,792)	1:143:A:ILE:H	1:177:A:GLY:H	19	0.13
(2,780)	1:142:A:ARG:H	1:143:A:ILE:H	13	0.13
(2,777)	1:141:A:GLY:H	1:144:A:ALA:H	10	0.13
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD11	8	0.13
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD12	8	0.13
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD13	8	0.13
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD11	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD12	9	0.13
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD13	9	0.13
(2,775)	1:141:A:GLY:H	1:143:A:ILE:H	19	0.13
(2,774)	1:141:A:GLY:H	1:142:A:ARG:H	5	0.13
(2,774)	1:141:A:GLY:H	1:142:A:ARG:H	6	0.13
(2,771)	1:140:A:THR:H	1:142:A:ARG:H	8	0.13
(2,771)	1:140:A:THR:H	1:142:A:ARG:H	9	0.13
(2,757)	1:139:A:VAL:H	1:178:A:CYS:H	12	0.13
(2,740)	1:137:A:LEU:HD11	1:138:A:ASP:H	20	0.13
(2,740)	1:137:A:LEU:HD12	1:138:A:ASP:H	20	0.13
(2,740)	1:137:A:LEU:HD13	1:138:A:ASP:H	20	0.13
(2,736)	1:134:A:LEU:HD21	1:136:A:PHE:H	9	0.13
(2,736)	1:134:A:LEU:HD22	1:136:A:PHE:H	9	0.13
(2,736)	1:134:A:LEU:HD23	1:136:A:PHE:H	9	0.13
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE1	11	0.13
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE2	11	0.13
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	7	0.13
(2,682)	1:123:A:ARG:H	1:124:A:LEU:H	10	0.13
(2,679)	1:122:A:ARG:H	1:124:A:LEU:H	8	0.13
(2,672)	1:120:A:MET:H	1:123:A:ARG:H	8	0.13
(2,662)	1:117:A:SER:H	1:120:A:MET:H	16	0.13
(2,657)	1:116:A:LEU:H	1:119:A:GLN:H	10	0.13
(2,648)	1:114:A:MET:H	1:118:A:ALA:H	16	0.13
(2,640)	1:113:A:LEU:H	1:117:A:SER:H	4	0.13
(2,640)	1:113:A:LEU:H	1:117:A:SER:H	6	0.13
(2,640)	1:113:A:LEU:H	1:117:A:SER:H	7	0.13
(2,636)	1:113:A:LEU:H	1:116:A:LEU:H	20	0.13
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	3	0.13
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	13	0.13
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	14	0.13
(2,604)	1:105:A:LEU:H	1:108:A:VAL:H	12	0.13
(2,597)	1:103:A:ARG:H	1:106:A:ILE:H	3	0.13
(2,597)	1:103:A:ARG:H	1:106:A:ILE:H	10	0.13
(2,597)	1:103:A:ARG:H	1:106:A:ILE:H	13	0.13
(2,576)	1:99:A:TYR:H	1:101:A:LYS:H	18	0.13
(2,558)	1:92:A:CYS:H	1:94:A:VAL:H	3	0.13
(2,555)	1:88:A:ALA:H	1:90:A:THR:H	17	0.13
(2,516)	1:75:A:LEU:H	1:77:A:GLU:H	4	0.13
(2,511)	1:75:A:LEU:H	1:76:A:PHE:H	2	0.13
(2,511)	1:75:A:LEU:H	1:76:A:PHE:H	9	0.13
(2,511)	1:75:A:LEU:H	1:76:A:PHE:H	11	0.13
(2,506)	1:74:A:GLY:H	1:75:A:LEU:H	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	1	0.13
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	6	0.13
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	15	0.13
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	17	0.13
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	20	0.13
(2,437)	1:60:A:ILE:H	1:174:A:GLN:H	2	0.13
(2,435)	1:60:A:ILE:H	1:176:A:VAL:H	8	0.13
(2,435)	1:60:A:ILE:H	1:176:A:VAL:H	14	0.13
(2,433)	1:60:A:ILE:H	1:61:A:LEU:H	16	0.13
(2,433)	1:60:A:ILE:H	1:61:A:LEU:H	19	0.13
(2,432)	1:60:A:ILE:H	1:175:A:ILE:H	5	0.13
(2,432)	1:60:A:ILE:H	1:175:A:ILE:H	7	0.13
(2,432)	1:60:A:ILE:H	1:175:A:ILE:H	12	0.13
(2,422)	1:59:A:MET:HE1	1:60:A:ILE:H	17	0.13
(2,422)	1:59:A:MET:HE2	1:60:A:ILE:H	17	0.13
(2,422)	1:59:A:MET:HE3	1:60:A:ILE:H	17	0.13
(2,420)	1:59:A:MET:H	1:60:A:ILE:H	13	0.13
(2,409)	1:53:A:ASP:H	1:54:A:GLU:H	4	0.13
(2,404)	1:52:A:LYS:H	1:59:A:MET:H	17	0.13
(2,395)	1:51:A:ILE:H	1:85:A:TRP:H	3	0.13
(2,390)	1:51:A:ILE:H	1:52:A:LYS:H	14	0.13
(2,388)	1:51:A:ILE:H	1:61:A:LEU:H	7	0.13
(2,339)	1:49:A:VAL:H	1:62:A:SER:H	15	0.13
(2,335)	1:48:A:ALA:H	1:64:A:LEU:H	8	0.13
(2,321)	1:47:A:VAL:H	1:90:A:THR:H	10	0.13
(2,321)	1:47:A:VAL:H	1:90:A:THR:H	12	0.13
(2,309)	1:47:A:VAL:H	1:89:A:LYS:H	1	0.13
(2,304)	1:47:A:VAL:H	1:64:A:LEU:H	11	0.13
(2,301)	1:46:A:SER:H	1:91:A:ALA:H	16	0.13
(2,294)	1:45:A:GLY:H	1:93:A:GLU:H	20	0.13
(2,289)	1:44:A:LYS:H	1:94:A:VAL:H	7	0.13
(2,289)	1:44:A:LYS:H	1:94:A:VAL:H	10	0.13
(2,289)	1:44:A:LYS:H	1:94:A:VAL:H	18	0.13
(2,283)	1:43:A:VAL:H	1:68:A:ASP:H	2	0.13
(2,283)	1:43:A:VAL:H	1:68:A:ASP:H	14	0.13
(2,283)	1:43:A:VAL:H	1:68:A:ASP:H	15	0.13
(2,280)	1:43:A:VAL:H	1:67:A:GLY:H	20	0.13
(2,251)	1:42:A:ILE:H	1:68:A:ASP:H	6	0.13
(2,240)	1:41:A:TYR:H	1:43:A:VAL:H	9	0.13
(2,230)	1:40:A:TYR:H	1:97:A:ILE:H	11	0.13
(2,220)	1:39:A:LEU:H	1:102:A:PHE:H	3	0.13
(2,214)	1:39:A:LEU:H	1:98:A:SER:H	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,214)	1:39:A:LEU:H	1:98:A:SER:H	16	0.13
(2,204)	1:39:A:LEU:H	1:97:A:ILE:H	4	0.13
(2,204)	1:39:A:LEU:H	1:97:A:ILE:H	12	0.13
(2,195)	1:36:A:ALA:H	1:38:A:THR:H	4	0.13
(2,194)	1:36:A:ALA:H	1:37:A:GLU:H	15	0.13
(2,173)	1:31:A:HIS:H	1:86:A:VAL:H	10	0.13
(2,157)	1:30:A:ILE:H	1:86:A:VAL:H	11	0.13
(2,157)	1:30:A:ILE:H	1:86:A:VAL:H	18	0.13
(2,138)	1:29:A:LEU:H	1:86:A:VAL:H	9	0.13
(2,138)	1:29:A:LEU:H	1:86:A:VAL:H	10	0.13
(2,132)	1:29:A:LEU:HD11	1:88:A:ALA:H	14	0.13
(2,132)	1:29:A:LEU:HD12	1:88:A:ALA:H	14	0.13
(2,132)	1:29:A:LEU:HD13	1:88:A:ALA:H	14	0.13
(2,128)	1:27:A:SER:H	1:90:A:THR:H	11	0.13
(2,123)	1:26:A:LYS:H	1:88:A:ALA:H	1	0.13
(2,123)	1:26:A:LYS:H	1:88:A:ALA:H	10	0.13
(2,118)	1:25:A:SER:H	1:27:A:SER:H	9	0.13
(2,118)	1:25:A:SER:H	1:27:A:SER:H	18	0.13
(2,99)	1:21:A:HIS:H	1:96:A:GLU:H	4	0.13
(2,99)	1:21:A:HIS:H	1:96:A:GLU:H	12	0.13
(2,55)	1:14:A:PHE:H	1:16:A:SER:H	4	0.13
(1,732)	1:204:A:VAL:H	1:206:A:TYR:H	17	0.13
(1,708)	1:191:A:GLU:H	1:200:A:GLY:H	20	0.13
(1,666)	1:178:A:CYS:H	1:182:A:THR:H	4	0.13
(1,666)	1:178:A:CYS:H	1:182:A:THR:H	5	0.13
(1,666)	1:178:A:CYS:H	1:182:A:THR:H	8	0.13
(1,664)	1:177:A:GLY:H	1:179:A:SER:H	12	0.13
(1,658)	1:175:A:ILE:H	1:177:A:GLY:H	13	0.13
(1,650)	1:174:A:GLN:H	1:178:A:CYS:H	1	0.13
(1,650)	1:174:A:GLN:H	1:178:A:CYS:H	18	0.13
(1,638)	1:171:A:GLU:H	1:175:A:ILE:H	1	0.13
(1,638)	1:171:A:GLU:H	1:175:A:ILE:H	8	0.13
(1,629)	1:169:A:ARG:H	1:201:A:LYS:H	7	0.13
(1,613)	1:165:A:ILE:H	1:202:A:THR:H	7	0.13
(1,592)	1:161:A:ASP:H	1:207:A:GLY:H	6	0.13
(1,592)	1:161:A:ASP:H	1:207:A:GLY:H	19	0.13
(1,583)	1:156:A:ALA:H	1:166:A:LYS:H	2	0.13
(1,582)	1:155:A:ASP:H	1:157:A:MET:H	16	0.13
(1,575)	1:151:A:ALA:H	1:205:A:VAL:H	1	0.13
(1,575)	1:151:A:ALA:H	1:205:A:VAL:H	7	0.13
(1,575)	1:151:A:ALA:H	1:205:A:VAL:H	10	0.13
(1,513)	1:144:A:ALA:H	1:148:A:LEU:H	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,513)	1:144:A:ALA:H	1:148:A:LEU:H	16	0.13
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	9	0.13
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	10	0.13
(1,410)	1:111:A:ASP:H	1:116:A:LEU:H	5	0.13
(1,406)	1:108:A:VAL:H	1:112:A:ILE:H	6	0.13
(1,406)	1:108:A:VAL:H	1:112:A:ILE:H	11	0.13
(1,406)	1:108:A:VAL:H	1:112:A:ILE:H	16	0.13
(1,404)	1:107:A:GLN:H	1:112:A:ILE:H	20	0.13
(1,402)	1:107:A:GLN:H	1:113:A:LEU:H	8	0.13
(1,376)	1:100:A:LYS:H	1:104:A:GLN:H	4	0.13
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	1	0.13
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	7	0.13
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	10	0.13
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	13	0.13
(1,323)	1:73:A:LEU:HD21	1:120:A:MET:H	13	0.13
(1,323)	1:73:A:LEU:HD22	1:120:A:MET:H	13	0.13
(1,323)	1:73:A:LEU:HD23	1:120:A:MET:H	13	0.13
(1,310)	1:70:A:ILE:H	1:95:A:ALA:H	15	0.13
(1,308)	1:70:A:ILE:H	1:73:A:LEU:H	18	0.13
(1,305)	1:69:A:PHE:H	1:72:A:GLU:H	1	0.13
(1,305)	1:69:A:PHE:H	1:72:A:GLU:H	17	0.13
(1,305)	1:69:A:PHE:H	1:72:A:GLU:H	19	0.13
(1,301)	1:69:A:PHE:H	1:120:A:MET:H	10	0.13
(1,292)	1:65:A:ASN:H	1:69:A:PHE:H	17	0.13
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	14	0.13
(1,274)	1:61:A:LEU:H	1:85:A:TRP:H	5	0.13
(1,247)	1:52:A:LYS:H	1:56:A:GLY:H	12	0.13
(1,235)	1:51:A:ILE:H	1:62:A:SER:H	3	0.13
(1,225)	1:50:A:LEU:H	1:59:A:MET:H	6	0.13
(1,202)	1:48:A:ALA:H	1:86:A:VAL:H	13	0.13
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	10	0.13
(1,178)	1:45:A:GLY:H	1:92:A:CYS:H	10	0.13
(1,176)	1:44:A:LYS:H	1:92:A:CYS:H	9	0.13
(1,140)	1:40:A:TYR:H	1:73:A:LEU:H	8	0.13
(1,140)	1:40:A:TYR:H	1:73:A:LEU:H	9	0.13
(1,119)	1:38:A:THR:H	1:75:A:LEU:H	19	0.13
(1,110)	1:35:A:LYS:H	1:37:A:GLU:H	15	0.13
(1,106)	1:33:A:GLY:H	1:36:A:ALA:H	18	0.13
(1,88)	1:30:A:ILE:H	1:32:A:GLN:H	15	0.13
(1,72)	1:29:A:LEU:H	1:31:A:HIS:H	1	0.13
(1,72)	1:29:A:LEU:H	1:31:A:HIS:H	5	0.13
(1,72)	1:29:A:LEU:H	1:31:A:HIS:H	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,52)	1:21:A:HIS:H	1:23:A:TYR:H	15	0.13
(1,41)	1:18:A:CYS:H	1:96:A:GLU:H	19	0.13
(1,10)	1:12:A:GLU:H	1:16:A:SER:H	4	0.13
(1,10)	1:12:A:GLU:H	1:16:A:SER:H	8	0.13
(2,1119)	1:204:A:VAL:H	1:205:A:VAL:H	15	0.12
(2,1112)	1:200:A:GLY:H	1:204:A:VAL:H	6	0.12
(2,1112)	1:200:A:GLY:H	1:204:A:VAL:H	9	0.12
(2,1112)	1:200:A:GLY:H	1:204:A:VAL:H	10	0.12
(2,1112)	1:200:A:GLY:H	1:204:A:VAL:H	15	0.12
(2,1111)	1:200:A:GLY:H	1:201:A:LYS:H	6	0.12
(2,1111)	1:200:A:GLY:H	1:201:A:LYS:H	10	0.12
(2,1111)	1:200:A:GLY:H	1:201:A:LYS:H	13	0.12
(2,1111)	1:200:A:GLY:H	1:201:A:LYS:H	16	0.12
(2,1111)	1:200:A:GLY:H	1:201:A:LYS:H	20	0.12
(2,1100)	1:198:A:ALA:H	1:199:A:HIS:H	7	0.12
(2,1100)	1:198:A:ALA:H	1:199:A:HIS:H	16	0.12
(2,1051)	1:190:A:LEU:H	1:194:A:ASN:H	11	0.12
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	1	0.12
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	7	0.12
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	10	0.12
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	20	0.12
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	1	0.12
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	3	0.12
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	6	0.12
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	9	0.12
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	11	0.12
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	12	0.12
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	14	0.12
(2,993)	1:182:A:THR:H	1:183:A:VAL:H	4	0.12
(2,991)	1:181:A:GLU:H	1:185:A:ARG:H	19	0.12
(2,989)	1:181:A:GLU:H	1:183:A:VAL:H	15	0.12
(2,989)	1:181:A:GLU:H	1:183:A:VAL:H	16	0.12
(2,970)	1:176:A:VAL:H	1:177:A:GLY:H	10	0.12
(2,963)	1:175:A:ILE:H	1:176:A:VAL:H	11	0.12
(2,963)	1:175:A:ILE:H	1:176:A:VAL:H	15	0.12
(2,940)	1:171:A:GLU:H	1:174:A:GLN:H	15	0.12
(2,934)	1:169:A:ARG:H	1:200:A:GLY:H	19	0.12
(2,882)	1:159:A:HIS:H	1:161:A:ASP:H	6	0.12
(2,880)	1:159:A:HIS:H	1:162:A:GLY:H	7	0.12
(2,876)	1:157:A:MET:H	1:164:A:GLN:H	18	0.12
(2,875)	1:156:A:ALA:H	1:164:A:GLN:H	7	0.12
(2,873)	1:155:A:ASP:H	1:156:A:ALA:H	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	9	0.12
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	13	0.12
(2,853)	1:150:A:LEU:H	1:151:A:ALA:H	1	0.12
(2,853)	1:150:A:LEU:H	1:151:A:ALA:H	14	0.12
(2,807)	1:146:A:THR:H	1:148:A:LEU:H	20	0.12
(2,801)	1:144:A:ALA:H	1:147:A:LEU:H	2	0.12
(2,801)	1:144:A:ALA:H	1:147:A:LEU:H	4	0.12
(2,801)	1:144:A:ALA:H	1:147:A:LEU:H	6	0.12
(2,799)	1:144:A:ALA:H	1:146:A:THR:H	15	0.12
(2,792)	1:143:A:ILE:H	1:177:A:GLY:H	2	0.12
(2,779)	1:141:A:GLY:H	1:145:A:GLN:H	8	0.12
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD11	15	0.12
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD12	15	0.12
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD13	15	0.12
(2,775)	1:141:A:GLY:H	1:143:A:ILE:H	13	0.12
(2,774)	1:141:A:GLY:H	1:142:A:ARG:H	18	0.12
(2,773)	1:140:A:THR:H	1:186:A:ILE:H	3	0.12
(2,773)	1:140:A:THR:H	1:186:A:ILE:H	11	0.12
(2,773)	1:140:A:THR:H	1:186:A:ILE:H	20	0.12
(2,751)	1:139:A:VAL:H	1:142:A:ARG:H	20	0.12
(2,744)	1:138:A:ASP:H	1:139:A:VAL:H	1	0.12
(2,731)	1:134:A:LEU:HD21	1:135:A:ALA:H	16	0.12
(2,731)	1:134:A:LEU:HD22	1:135:A:ALA:H	16	0.12
(2,731)	1:134:A:LEU:HD23	1:135:A:ALA:H	16	0.12
(2,717)	1:130:A:LYS:H	1:149:A:ASN:H	8	0.12
(2,714)	1:129:A:GLU:H	1:132:A:GLY:H	8	0.12
(2,695)	1:125:A:GLN:H	1:132:A:GLY:H	8	0.12
(2,680)	1:122:A:ARG:H	1:126:A:VAL:H	4	0.12
(2,680)	1:122:A:ARG:H	1:126:A:VAL:H	17	0.12
(2,677)	1:121:A:ALA:H	1:124:A:LEU:H	7	0.12
(2,677)	1:121:A:ALA:H	1:124:A:LEU:H	8	0.12
(2,677)	1:121:A:ALA:H	1:124:A:LEU:H	17	0.12
(2,662)	1:117:A:SER:H	1:120:A:MET:H	18	0.12
(2,661)	1:117:A:SER:H	1:119:A:GLN:H	9	0.12
(2,648)	1:114:A:MET:H	1:118:A:ALA:H	15	0.12
(2,646)	1:114:A:MET:H	1:117:A:SER:H	19	0.12
(2,627)	1:111:A:ASP:H	1:115:A:ARG:H	8	0.12
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	1	0.12
(2,616)	1:106:A:ILE:H	1:113:A:LEU:H	8	0.12
(2,568)	1:97:A:ILE:H	1:98:A:SER:H	19	0.12
(2,555)	1:88:A:ALA:H	1:90:A:THR:H	1	0.12
(2,544)	1:83:A:SER:H	1:84:A:ALA:H	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,539)	1:79:A:GLY:H	1:80:A:GLN:H	15	0.12
(2,516)	1:75:A:LEU:H	1:77:A:GLU:H	13	0.12
(2,499)	1:73:A:LEU:H	1:75:A:LEU:H	8	0.12
(2,498)	1:73:A:LEU:H	1:74:A:GLY:H	8	0.12
(2,498)	1:73:A:LEU:H	1:74:A:GLY:H	9	0.12
(2,498)	1:73:A:LEU:H	1:74:A:GLY:H	13	0.12
(2,485)	1:71:A:GLY:H	1:72:A:GLU:H	19	0.12
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	2	0.12
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	4	0.12
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	5	0.12
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	10	0.12
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	11	0.12
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	14	0.12
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	16	0.12
(2,463)	1:65:A:ASN:H	1:66:A:GLN:H	19	0.12
(2,456)	1:64:A:LEU:H	1:65:A:ASN:H	5	0.12
(2,456)	1:64:A:LEU:H	1:65:A:ASN:H	6	0.12
(2,440)	1:61:A:LEU:H	1:62:A:SER:H	5	0.12
(2,435)	1:60:A:ILE:H	1:176:A:VAL:H	1	0.12
(2,435)	1:60:A:ILE:H	1:176:A:VAL:H	5	0.12
(2,420)	1:59:A:MET:H	1:60:A:ILE:H	1	0.12
(2,420)	1:59:A:MET:H	1:60:A:ILE:H	16	0.12
(2,416)	1:55:A:GLU:H	1:57:A:LYS:H	6	0.12
(2,415)	1:55:A:GLU:H	1:56:A:GLY:H	11	0.12
(2,406)	1:53:A:ASP:H	1:57:A:LYS:H	3	0.12
(2,405)	1:52:A:LYS:H	1:85:A:TRP:H	18	0.12
(2,402)	1:52:A:LYS:H	1:53:A:ASP:H	12	0.12
(2,401)	1:52:A:LYS:H	1:85:A:TRP:HE3	12	0.12
(2,390)	1:51:A:ILE:H	1:52:A:LYS:H	4	0.12
(2,389)	1:51:A:ILE:H	1:85:A:TRP:HE3	1	0.12
(2,389)	1:51:A:ILE:H	1:85:A:TRP:HE3	18	0.12
(2,387)	1:51:A:ILE:H	1:59:A:MET:H	19	0.12
(2,368)	1:50:A:LEU:H	1:87:A:ARG:H	1	0.12
(2,339)	1:49:A:VAL:H	1:62:A:SER:H	18	0.12
(2,304)	1:47:A:VAL:H	1:64:A:LEU:H	7	0.12
(2,296)	1:46:A:SER:H	1:90:A:THR:H	12	0.12
(2,289)	1:44:A:LYS:H	1:94:A:VAL:H	11	0.12
(2,289)	1:44:A:LYS:H	1:94:A:VAL:H	14	0.12
(2,287)	1:44:A:LYS:H	1:67:A:GLY:H	19	0.12
(2,283)	1:43:A:VAL:H	1:68:A:ASP:H	6	0.12
(2,283)	1:43:A:VAL:H	1:68:A:ASP:H	7	0.12
(2,283)	1:43:A:VAL:H	1:68:A:ASP:H	12	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,251)	1:42:A:ILE:H	1:68:A:ASP:H	4	0.12
(2,251)	1:42:A:ILE:H	1:68:A:ASP:H	7	0.12
(2,251)	1:42:A:ILE:H	1:68:A:ASP:H	10	0.12
(2,251)	1:42:A:ILE:H	1:68:A:ASP:H	17	0.12
(2,251)	1:42:A:ILE:H	1:68:A:ASP:H	18	0.12
(2,240)	1:41:A:TYR:H	1:43:A:VAL:H	17	0.12
(2,238)	1:41:A:TYR:H	1:70:A:ILE:H	19	0.12
(2,230)	1:40:A:TYR:H	1:97:A:ILE:H	15	0.12
(2,198)	1:37:A:GLU:H	1:80:A:GLN:H	10	0.12
(2,197)	1:37:A:GLU:H	1:99:A:TYR:H	2	0.12
(2,197)	1:37:A:GLU:H	1:99:A:TYR:H	7	0.12
(2,195)	1:36:A:ALA:H	1:38:A:THR:H	3	0.12
(2,192)	1:36:A:ALA:H	1:80:A:GLN:H	8	0.12
(2,185)	1:33:A:GLY:H	1:84:A:ALA:H	20	0.12
(2,161)	1:30:A:ILE:H	1:31:A:HIS:H	5	0.12
(2,138)	1:29:A:LEU:H	1:86:A:VAL:H	1	0.12
(2,131)	1:29:A:LEU:H	1:30:A:ILE:H	7	0.12
(2,124)	1:26:A:LYS:H	1:89:A:LYS:H	17	0.12
(2,120)	1:25:A:SER:H	1:90:A:THR:H	16	0.12
(2,118)	1:25:A:SER:H	1:27:A:SER:H	16	0.12
(2,62)	1:14:A:PHE:H	1:17:A:HIS:H	5	0.12
(2,55)	1:14:A:PHE:H	1:16:A:SER:H	15	0.12
(2,55)	1:14:A:PHE:H	1:16:A:SER:H	17	0.12
(2,47)	1:13:A:TRP:HE3	1:112:A:ILE:H	20	0.12
(1,732)	1:204:A:VAL:H	1:206:A:TYR:H	13	0.12
(1,717)	1:197:A:SER:H	1:199:A:HIS:H	5	0.12
(1,717)	1:197:A:SER:H	1:199:A:HIS:H	18	0.12
(1,676)	1:184:A:GLY:H	1:188:A:LYS:H	17	0.12
(1,666)	1:178:A:CYS:H	1:182:A:THR:H	2	0.12
(1,658)	1:175:A:ILE:H	1:177:A:GLY:H	6	0.12
(1,658)	1:175:A:ILE:H	1:177:A:GLY:H	12	0.12
(1,650)	1:174:A:GLN:H	1:178:A:CYS:H	7	0.12
(1,650)	1:174:A:GLN:H	1:178:A:CYS:H	16	0.12
(1,647)	1:173:A:GLY:H	1:183:A:VAL:H	10	0.12
(1,647)	1:173:A:GLY:H	1:183:A:VAL:H	17	0.12
(1,647)	1:173:A:GLY:H	1:183:A:VAL:H	20	0.12
(1,638)	1:171:A:GLU:H	1:175:A:ILE:H	18	0.12
(1,634)	1:170:A:GLN:H	1:180:A:ARG:H	8	0.12
(1,613)	1:165:A:ILE:H	1:202:A:THR:H	12	0.12
(1,597)	1:162:A:GLY:H	1:164:A:GLN:H	4	0.12
(1,585)	1:157:A:MET:H	1:159:A:HIS:H	13	0.12
(1,585)	1:157:A:MET:H	1:159:A:HIS:H	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,583)	1:156:A:ALA:H	1:166:A:LYS:H	4	0.12
(1,577)	1:152:A:LYS:H	1:156:A:ALA:H	12	0.12
(1,575)	1:151:A:ALA:H	1:205:A:VAL:H	8	0.12
(1,521)	1:146:A:THR:H	1:150:A:LEU:H	11	0.12
(1,513)	1:144:A:ALA:H	1:148:A:LEU:H	10	0.12
(1,506)	1:143:A:ILE:H	1:147:A:LEU:H	2	0.12
(1,502)	1:143:A:ILE:H	1:178:A:CYS:H	13	0.12
(1,496)	1:141:A:GLY:H	1:177:A:GLY:H	6	0.12
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	7	0.12
(1,466)	1:130:A:LYS:H	1:148:A:LEU:H	20	0.12
(1,461)	1:130:A:LYS:H	1:146:A:THR:H	18	0.12
(1,406)	1:108:A:VAL:H	1:112:A:ILE:H	1	0.12
(1,406)	1:108:A:VAL:H	1:112:A:ILE:H	2	0.12
(1,406)	1:108:A:VAL:H	1:112:A:ILE:H	9	0.12
(1,406)	1:108:A:VAL:H	1:112:A:ILE:H	17	0.12
(1,406)	1:108:A:VAL:H	1:112:A:ILE:H	20	0.12
(1,404)	1:107:A:GLN:H	1:112:A:ILE:H	1	0.12
(1,404)	1:107:A:GLN:H	1:112:A:ILE:H	14	0.12
(1,404)	1:107:A:GLN:H	1:112:A:ILE:H	18	0.12
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	4	0.12
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	6	0.12
(1,310)	1:70:A:ILE:H	1:95:A:ALA:H	4	0.12
(1,310)	1:70:A:ILE:H	1:95:A:ALA:H	7	0.12
(1,310)	1:70:A:ILE:H	1:95:A:ALA:H	8	0.12
(1,310)	1:70:A:ILE:H	1:95:A:ALA:H	14	0.12
(1,310)	1:70:A:ILE:H	1:95:A:ALA:H	18	0.12
(1,308)	1:70:A:ILE:H	1:73:A:LEU:H	4	0.12
(1,308)	1:70:A:ILE:H	1:73:A:LEU:H	10	0.12
(1,308)	1:70:A:ILE:H	1:73:A:LEU:H	16	0.12
(1,305)	1:69:A:PHE:H	1:72:A:GLU:H	13	0.12
(1,288)	1:64:A:LEU:H	1:89:A:LYS:H	5	0.12
(1,274)	1:61:A:LEU:H	1:85:A:TRP:H	17	0.12
(1,251)	1:56:A:GLY:H	1:58:A:GLU:H	4	0.12
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	11	0.12
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	12	0.12
(1,176)	1:44:A:LYS:H	1:92:A:CYS:H	8	0.12
(1,115)	1:37:A:GLU:H	1:82:A:ARG:H	10	0.12
(1,106)	1:33:A:GLY:H	1:36:A:ALA:H	7	0.12
(1,106)	1:33:A:GLY:H	1:36:A:ALA:H	12	0.12
(1,96)	1:30:A:ILE:H	1:48:A:ALA:H	2	0.12
(1,95)	1:30:A:ILE:H	1:50:A:LEU:H	3	0.12
(1,72)	1:29:A:LEU:H	1:31:A:HIS:H	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:29:A:LEU:H	1:31:A:HIS:H	12	0.12
(1,52)	1:21:A:HIS:H	1:23:A:TYR:H	7	0.12
(1,52)	1:21:A:HIS:H	1:23:A:TYR:H	12	0.12
(1,41)	1:18:A:CYS:H	1:96:A:GLU:H	1	0.12
(1,10)	1:12:A:GLU:H	1:16:A:SER:H	13	0.12
(2,1128)	1:206:A:TYR:H	1:208:A:THR:H	12	0.11
(2,1119)	1:204:A:VAL:H	1:205:A:VAL:H	5	0.11
(2,1119)	1:204:A:VAL:H	1:205:A:VAL:H	13	0.11
(2,1119)	1:204:A:VAL:H	1:205:A:VAL:H	16	0.11
(2,1119)	1:204:A:VAL:H	1:205:A:VAL:H	17	0.11
(2,1119)	1:204:A:VAL:H	1:205:A:VAL:H	18	0.11
(2,1114)	1:202:A:THR:H	1:203:A:ILE:H	1	0.11
(2,1114)	1:202:A:THR:H	1:203:A:ILE:H	13	0.11
(2,1114)	1:202:A:THR:H	1:203:A:ILE:H	20	0.11
(2,1113)	1:200:A:GLY:H	1:203:A:ILE:H	13	0.11
(2,1113)	1:200:A:GLY:H	1:203:A:ILE:H	16	0.11
(2,1112)	1:200:A:GLY:H	1:204:A:VAL:H	20	0.11
(2,1111)	1:200:A:GLY:H	1:201:A:LYS:H	1	0.11
(2,1111)	1:200:A:GLY:H	1:201:A:LYS:H	3	0.11
(2,1111)	1:200:A:GLY:H	1:201:A:LYS:H	9	0.11
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	5	0.11
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	11	0.11
(2,1100)	1:198:A:ALA:H	1:199:A:HIS:H	14	0.11
(2,1075)	1:193:A:GLN:H	1:196:A:ILE:H	17	0.11
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	3	0.11
(2,1050)	1:190:A:LEU:H	1:196:A:ILE:H	14	0.11
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	2	0.11
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	4	0.11
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	5	0.11
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	7	0.11
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	10	0.11
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	15	0.11
(2,1037)	1:188:A:LYS:H	1:191:A:GLU:H	19	0.11
(2,1006)	1:184:A:GLY:H	1:187:A:LEU:H	19	0.11
(2,993)	1:182:A:THR:H	1:183:A:VAL:H	8	0.11
(2,993)	1:182:A:THR:H	1:183:A:VAL:H	20	0.11
(2,989)	1:181:A:GLU:H	1:183:A:VAL:H	2	0.11
(2,989)	1:181:A:GLU:H	1:183:A:VAL:H	5	0.11
(2,989)	1:181:A:GLU:H	1:183:A:VAL:H	8	0.11
(2,989)	1:181:A:GLU:H	1:183:A:VAL:H	10	0.11
(2,975)	1:177:A:GLY:H	1:178:A:CYS:H	8	0.11
(2,975)	1:177:A:GLY:H	1:178:A:CYS:H	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,975)	1:177:A:GLY:H	1:178:A:CYS:H	15	0.11
(2,975)	1:177:A:GLY:H	1:178:A:CYS:H	17	0.11
(2,970)	1:176:A:VAL:H	1:177:A:GLY:H	2	0.11
(2,970)	1:176:A:VAL:H	1:177:A:GLY:H	16	0.11
(2,970)	1:176:A:VAL:H	1:177:A:GLY:H	17	0.11
(2,970)	1:176:A:VAL:H	1:177:A:GLY:H	18	0.11
(2,963)	1:175:A:ILE:H	1:176:A:VAL:H	8	0.11
(2,963)	1:175:A:ILE:H	1:176:A:VAL:H	10	0.11
(2,963)	1:175:A:ILE:H	1:176:A:VAL:H	14	0.11
(2,957)	1:173:A:GLY:H	1:184:A:GLY:H	8	0.11
(2,935)	1:170:A:GLN:H	1:171:A:GLU:H	8	0.11
(2,929)	1:169:A:ARG:H	1:171:A:GLU:H	20	0.11
(2,926)	1:168:A:THR:H	1:172:A:ILE:H	8	0.11
(2,891)	1:163:A:MET:H	1:205:A:VAL:H	17	0.11
(2,881)	1:159:A:HIS:H	1:164:A:GLN:H	6	0.11
(2,880)	1:159:A:HIS:H	1:162:A:GLY:H	1	0.11
(2,880)	1:159:A:HIS:H	1:162:A:GLY:H	6	0.11
(2,876)	1:157:A:MET:H	1:164:A:GLN:H	16	0.11
(2,875)	1:156:A:ALA:H	1:164:A:GLN:H	4	0.11
(2,873)	1:155:A:ASP:H	1:156:A:ALA:H	5	0.11
(2,873)	1:155:A:ASP:H	1:156:A:ALA:H	10	0.11
(2,873)	1:155:A:ASP:H	1:156:A:ALA:H	11	0.11
(2,871)	1:153:A:GLN:H	1:156:A:ALA:H	11	0.11
(2,867)	1:151:A:ALA:H	1:153:A:GLN:H	6	0.11
(2,867)	1:151:A:ALA:H	1:153:A:GLN:H	15	0.11
(2,862)	1:150:A:LEU:H	1:153:A:GLN:H	18	0.11
(2,853)	1:150:A:LEU:H	1:151:A:ALA:H	19	0.11
(2,851)	1:149:A:ASN:H	1:152:A:LYS:H	4	0.11
(2,851)	1:149:A:ASN:H	1:152:A:LYS:H	12	0.11
(2,837)	1:148:A:LEU:H	1:150:A:LEU:H	6	0.11
(2,824)	1:147:A:LEU:H	1:150:A:LEU:H	16	0.11
(2,818)	1:147:A:LEU:H	1:149:A:ASN:H	10	0.11
(2,807)	1:146:A:THR:H	1:148:A:LEU:H	3	0.11
(2,806)	1:146:A:THR:H	1:147:A:LEU:H	14	0.11
(2,801)	1:144:A:ALA:H	1:147:A:LEU:H	11	0.11
(2,792)	1:143:A:ILE:H	1:177:A:GLY:H	10	0.11
(2,785)	1:142:A:ARG:H	1:177:A:GLY:H	9	0.11
(2,784)	1:142:A:ARG:H	1:145:A:GLN:H	11	0.11
(2,782)	1:142:A:ARG:H	1:143:A:ILE:HD11	10	0.11
(2,782)	1:142:A:ARG:H	1:143:A:ILE:HD12	10	0.11
(2,782)	1:142:A:ARG:H	1:143:A:ILE:HD13	10	0.11
(2,781)	1:142:A:ARG:H	1:144:A:ALA:H	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,781)	1:142:A:ARG:H	1:144:A:ALA:H	13	0.11
(2,781)	1:142:A:ARG:H	1:144:A:ALA:H	19	0.11
(2,777)	1:141:A:GLY:H	1:144:A:ALA:H	4	0.11
(2,777)	1:141:A:GLY:H	1:144:A:ALA:H	12	0.11
(2,777)	1:141:A:GLY:H	1:144:A:ALA:H	13	0.11
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD11	2	0.11
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD12	2	0.11
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD13	2	0.11
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD11	6	0.11
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD12	6	0.11
(2,776)	1:141:A:GLY:H	1:143:A:ILE:HD13	6	0.11
(2,774)	1:141:A:GLY:H	1:142:A:ARG:H	2	0.11
(2,774)	1:141:A:GLY:H	1:142:A:ARG:H	17	0.11
(2,771)	1:140:A:THR:H	1:142:A:ARG:H	3	0.11
(2,771)	1:140:A:THR:H	1:142:A:ARG:H	5	0.11
(2,771)	1:140:A:THR:H	1:142:A:ARG:H	12	0.11
(2,751)	1:139:A:VAL:H	1:142:A:ARG:H	18	0.11
(2,744)	1:138:A:ASP:H	1:139:A:VAL:H	4	0.11
(2,744)	1:138:A:ASP:H	1:139:A:VAL:H	11	0.11
(2,736)	1:134:A:LEU:HD21	1:136:A:PHE:H	7	0.11
(2,736)	1:134:A:LEU:HD22	1:136:A:PHE:H	7	0.11
(2,736)	1:134:A:LEU:HD23	1:136:A:PHE:H	7	0.11
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE1	7	0.11
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE2	7	0.11
(2,731)	1:134:A:LEU:HD21	1:135:A:ALA:H	3	0.11
(2,731)	1:134:A:LEU:HD22	1:135:A:ALA:H	3	0.11
(2,731)	1:134:A:LEU:HD23	1:135:A:ALA:H	3	0.11
(2,731)	1:134:A:LEU:HD21	1:135:A:ALA:H	4	0.11
(2,731)	1:134:A:LEU:HD22	1:135:A:ALA:H	4	0.11
(2,731)	1:134:A:LEU:HD23	1:135:A:ALA:H	4	0.11
(2,695)	1:125:A:GLN:H	1:132:A:GLY:H	2	0.11
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	2	0.11
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	6	0.11
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	20	0.11
(2,677)	1:121:A:ALA:H	1:124:A:LEU:H	1	0.11
(2,652)	1:116:A:LEU:H	1:117:A:SER:H	19	0.11
(2,640)	1:113:A:LEU:H	1:117:A:SER:H	2	0.11
(2,630)	1:112:A:ILE:H	1:115:A:ARG:H	15	0.11
(2,627)	1:111:A:ASP:H	1:115:A:ARG:H	5	0.11
(2,623)	1:109:A:ASN:H	1:112:A:ILE:H	18	0.11
(2,616)	1:106:A:ILE:H	1:113:A:LEU:H	19	0.11
(2,604)	1:105:A:LEU:H	1:108:A:VAL:H	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,604)	1:105:A:LEU:H	1:108:A:VAL:H	7	0.11
(2,604)	1:105:A:LEU:H	1:108:A:VAL:H	9	0.11
(2,597)	1:103:A:ARG:H	1:106:A:ILE:H	1	0.11
(2,597)	1:103:A:ARG:H	1:106:A:ILE:H	15	0.11
(2,577)	1:99:A:TYR:H	1:102:A:PHE:H	3	0.11
(2,577)	1:99:A:TYR:H	1:102:A:PHE:H	4	0.11
(2,576)	1:99:A:TYR:H	1:101:A:LYS:H	6	0.11
(2,564)	1:95:A:ALA:H	1:96:A:GLU:H	18	0.11
(2,539)	1:79:A:GLY:H	1:80:A:GLN:H	5	0.11
(2,529)	1:76:A:PHE:H	1:77:A:GLU:H	18	0.11
(2,511)	1:75:A:LEU:H	1:76:A:PHE:H	7	0.11
(2,499)	1:73:A:LEU:H	1:75:A:LEU:H	13	0.11
(2,498)	1:73:A:LEU:H	1:74:A:GLY:H	1	0.11
(2,498)	1:73:A:LEU:H	1:74:A:GLY:H	4	0.11
(2,496)	1:72:A:GLU:H	1:75:A:LEU:H	17	0.11
(2,491)	1:71:A:GLY:H	1:73:A:LEU:HD11	13	0.11
(2,491)	1:71:A:GLY:H	1:73:A:LEU:HD12	13	0.11
(2,491)	1:71:A:GLY:H	1:73:A:LEU:HD13	13	0.11
(2,440)	1:61:A:LEU:H	1:62:A:SER:H	2	0.11
(2,440)	1:61:A:LEU:H	1:62:A:SER:H	12	0.11
(2,437)	1:60:A:ILE:H	1:174:A:GLN:H	10	0.11
(2,437)	1:60:A:ILE:H	1:174:A:GLN:H	11	0.11
(2,432)	1:60:A:ILE:H	1:175:A:ILE:H	17	0.11
(2,422)	1:59:A:MET:HE1	1:60:A:ILE:H	18	0.11
(2,422)	1:59:A:MET:HE2	1:60:A:ILE:H	18	0.11
(2,422)	1:59:A:MET:HE3	1:60:A:ILE:H	18	0.11
(2,406)	1:53:A:ASP:H	1:57:A:LYS:H	7	0.11
(2,404)	1:52:A:LYS:H	1:59:A:MET:H	5	0.11
(2,400)	1:52:A:LYS:H	1:85:A:TRP:HZ3	15	0.11
(2,399)	1:51:A:ILE:HD11	1:59:A:MET:H	13	0.11
(2,399)	1:51:A:ILE:HD12	1:59:A:MET:H	13	0.11
(2,399)	1:51:A:ILE:HD13	1:59:A:MET:H	13	0.11
(2,397)	1:51:A:ILE:H	1:85:A:TRP:HZ3	13	0.11
(2,395)	1:51:A:ILE:H	1:85:A:TRP:H	20	0.11
(2,392)	1:51:A:ILE:H	1:60:A:ILE:H	19	0.11
(2,389)	1:51:A:ILE:H	1:85:A:TRP:HE3	9	0.11
(2,387)	1:51:A:ILE:H	1:59:A:MET:H	9	0.11
(2,372)	1:50:A:LEU:H	1:86:A:VAL:H	2	0.11
(2,368)	1:50:A:LEU:H	1:87:A:ARG:H	2	0.11
(2,352)	1:49:A:VAL:H	1:63:A:TYR:H	7	0.11
(2,339)	1:49:A:VAL:H	1:62:A:SER:H	6	0.11
(2,339)	1:49:A:VAL:H	1:62:A:SER:H	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,339)	1:49:A:VAL:H	1:62:A:SER:H	17	0.11
(2,331)	1:48:A:ALA:H	1:87:A:ARG:H	18	0.11
(2,321)	1:47:A:VAL:H	1:90:A:THR:H	19	0.11
(2,317)	1:47:A:VAL:H	1:65:A:ASN:H	8	0.11
(2,309)	1:47:A:VAL:H	1:89:A:LYS:H	16	0.11
(2,309)	1:47:A:VAL:H	1:89:A:LYS:H	17	0.11
(2,304)	1:47:A:VAL:H	1:64:A:LEU:H	3	0.11
(2,304)	1:47:A:VAL:H	1:64:A:LEU:H	13	0.11
(2,296)	1:46:A:SER:H	1:90:A:THR:H	4	0.11
(2,287)	1:44:A:LYS:H	1:67:A:GLY:H	3	0.11
(2,287)	1:44:A:LYS:H	1:67:A:GLY:H	10	0.11
(2,283)	1:43:A:VAL:H	1:68:A:ASP:H	18	0.11
(2,277)	1:43:A:VAL:H	1:93:A:GLU:H	5	0.11
(2,265)	1:42:A:ILE:H	1:69:A:PHE:H	11	0.11
(2,257)	1:42:A:ILE:H	1:43:A:VAL:H	18	0.11
(2,251)	1:42:A:ILE:H	1:68:A:ASP:H	19	0.11
(2,235)	1:41:A:TYR:H	1:95:A:ALA:H	2	0.11
(2,235)	1:41:A:TYR:H	1:95:A:ALA:H	13	0.11
(2,235)	1:41:A:TYR:H	1:95:A:ALA:H	20	0.11
(2,230)	1:40:A:TYR:H	1:97:A:ILE:H	17	0.11
(2,205)	1:39:A:LEU:HD11	1:72:A:GLU:H	19	0.11
(2,205)	1:39:A:LEU:HD12	1:72:A:GLU:H	19	0.11
(2,205)	1:39:A:LEU:HD13	1:72:A:GLU:H	19	0.11
(2,204)	1:39:A:LEU:H	1:97:A:ILE:H	5	0.11
(2,204)	1:39:A:LEU:H	1:97:A:ILE:H	6	0.11
(2,204)	1:39:A:LEU:H	1:97:A:ILE:H	7	0.11
(2,204)	1:39:A:LEU:H	1:97:A:ILE:H	8	0.11
(2,204)	1:39:A:LEU:H	1:97:A:ILE:H	9	0.11
(2,204)	1:39:A:LEU:H	1:97:A:ILE:H	10	0.11
(2,204)	1:39:A:LEU:H	1:97:A:ILE:H	17	0.11
(2,198)	1:37:A:GLU:H	1:80:A:GLN:H	15	0.11
(2,197)	1:37:A:GLU:H	1:99:A:TYR:H	14	0.11
(2,195)	1:36:A:ALA:H	1:38:A:THR:H	10	0.11
(2,194)	1:36:A:ALA:H	1:37:A:GLU:H	3	0.11
(2,192)	1:36:A:ALA:H	1:80:A:GLN:H	12	0.11
(2,192)	1:36:A:ALA:H	1:80:A:GLN:H	15	0.11
(2,190)	1:35:A:LYS:H	1:82:A:ARG:H	7	0.11
(2,179)	1:32:A:GLN:H	1:34:A:GLU:H	13	0.11
(2,176)	1:32:A:GLN:H	1:85:A:TRP:HE3	17	0.11
(2,173)	1:31:A:HIS:H	1:86:A:VAL:H	19	0.11
(2,145)	1:29:A:LEU:H	1:87:A:ARG:H	4	0.11
(2,145)	1:29:A:LEU:H	1:87:A:ARG:H	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,145)	1:29:A:LEU:H	1:87:A:ARG:H	12	0.11
(2,138)	1:29:A:LEU:H	1:86:A:VAL:H	15	0.11
(2,132)	1:29:A:LEU:HD11	1:88:A:ALA:H	12	0.11
(2,132)	1:29:A:LEU:HD12	1:88:A:ALA:H	12	0.11
(2,132)	1:29:A:LEU:HD13	1:88:A:ALA:H	12	0.11
(2,124)	1:26:A:LYS:H	1:89:A:LYS:H	8	0.11
(2,123)	1:26:A:LYS:H	1:88:A:ALA:H	2	0.11
(2,123)	1:26:A:LYS:H	1:88:A:ALA:H	9	0.11
(2,122)	1:26:A:LYS:H	1:90:A:THR:H	5	0.11
(2,107)	1:23:A:TYR:H	1:92:A:CYS:H	17	0.11
(2,91)	1:18:A:CYS:H	1:20:A:ILE:H	12	0.11
(2,55)	1:14:A:PHE:H	1:16:A:SER:H	10	0.11
(1,720)	1:199:A:HIS:H	1:201:A:LYS:H	10	0.11
(1,720)	1:199:A:HIS:H	1:201:A:LYS:H	13	0.11
(1,720)	1:199:A:HIS:H	1:201:A:LYS:H	16	0.11
(1,708)	1:191:A:GLU:H	1:200:A:GLY:H	13	0.11
(1,676)	1:184:A:GLY:H	1:188:A:LYS:H	8	0.11
(1,664)	1:177:A:GLY:H	1:179:A:SER:H	16	0.11
(1,664)	1:177:A:GLY:H	1:179:A:SER:H	17	0.11
(1,658)	1:175:A:ILE:H	1:177:A:GLY:H	3	0.11
(1,658)	1:175:A:ILE:H	1:177:A:GLY:H	9	0.11
(1,650)	1:174:A:GLN:H	1:178:A:CYS:H	13	0.11
(1,648)	1:173:A:GLY:H	1:178:A:CYS:H	1	0.11
(1,647)	1:173:A:GLY:H	1:183:A:VAL:H	5	0.11
(1,638)	1:171:A:GLU:H	1:175:A:ILE:H	3	0.11
(1,634)	1:170:A:GLN:H	1:180:A:ARG:H	6	0.11
(1,628)	1:168:A:THR:H	1:201:A:LYS:H	11	0.11
(1,627)	1:168:A:THR:H	1:203:A:ILE:H	7	0.11
(1,617)	1:165:A:ILE:H	1:199:A:HIS:H	20	0.11
(1,601)	1:163:A:MET:H	1:197:A:SER:H	4	0.11
(1,596)	1:162:A:GLY:H	1:206:A:TYR:H	9	0.11
(1,592)	1:161:A:ASP:H	1:207:A:GLY:H	1	0.11
(1,585)	1:157:A:MET:H	1:159:A:HIS:H	4	0.11
(1,585)	1:157:A:MET:H	1:159:A:HIS:H	12	0.11
(1,585)	1:157:A:MET:H	1:159:A:HIS:H	16	0.11
(1,585)	1:157:A:MET:H	1:159:A:HIS:H	19	0.11
(1,575)	1:151:A:ALA:H	1:205:A:VAL:H	16	0.11
(1,575)	1:151:A:ALA:H	1:205:A:VAL:H	18	0.11
(1,571)	1:151:A:ALA:H	1:156:A:ALA:H	6	0.11
(1,556)	1:149:A:ASN:H	1:153:A:GLN:H	5	0.11
(1,556)	1:149:A:ASN:H	1:153:A:GLN:H	12	0.11
(1,524)	1:146:A:THR:H	1:176:A:VAL:H	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,513)	1:144:A:ALA:H	1:148:A:LEU:H	6	0.11
(1,506)	1:143:A:ILE:H	1:147:A:LEU:H	3	0.11
(1,506)	1:143:A:ILE:H	1:147:A:LEU:H	4	0.11
(1,506)	1:143:A:ILE:H	1:147:A:LEU:H	16	0.11
(1,504)	1:143:A:ILE:H	1:176:A:VAL:H	20	0.11
(1,502)	1:143:A:ILE:H	1:178:A:CYS:H	7	0.11
(1,502)	1:143:A:ILE:H	1:178:A:CYS:H	16	0.11
(1,479)	1:138:A:ASP:H	1:140:A:THR:H	20	0.11
(1,441)	1:124:A:LEU:H	1:132:A:GLY:H	15	0.11
(1,426)	1:116:A:LEU:H	1:120:A:MET:H	7	0.11
(1,410)	1:111:A:ASP:H	1:116:A:LEU:H	19	0.11
(1,406)	1:108:A:VAL:H	1:112:A:ILE:H	7	0.11
(1,406)	1:108:A:VAL:H	1:112:A:ILE:H	8	0.11
(1,406)	1:108:A:VAL:H	1:112:A:ILE:H	14	0.11
(1,406)	1:108:A:VAL:H	1:112:A:ILE:H	19	0.11
(1,404)	1:107:A:GLN:H	1:112:A:ILE:H	10	0.11
(1,404)	1:107:A:GLN:H	1:112:A:ILE:H	15	0.11
(1,404)	1:107:A:GLN:H	1:112:A:ILE:H	16	0.11
(1,389)	1:104:A:GLN:H	1:108:A:VAL:H	15	0.11
(1,389)	1:104:A:GLN:H	1:108:A:VAL:H	17	0.11
(1,376)	1:100:A:LYS:H	1:104:A:GLN:H	10	0.11
(1,358)	1:86:A:VAL:H	1:88:A:ALA:H	11	0.11
(1,348)	1:77:A:GLU:H	1:80:A:GLN:H	13	0.11
(1,345)	1:76:A:PHE:H	1:78:A:GLU:H	6	0.11
(1,310)	1:70:A:ILE:H	1:95:A:ALA:H	10	0.11
(1,308)	1:70:A:ILE:H	1:73:A:LEU:H	3	0.11
(1,308)	1:70:A:ILE:H	1:73:A:LEU:H	9	0.11
(1,305)	1:69:A:PHE:H	1:72:A:GLU:H	7	0.11
(1,292)	1:65:A:ASN:H	1:69:A:PHE:H	6	0.11
(1,292)	1:65:A:ASN:H	1:69:A:PHE:H	7	0.11
(1,292)	1:65:A:ASN:H	1:69:A:PHE:H	18	0.11
(1,272)	1:61:A:LEU:HD11	1:84:A:ALA:H	12	0.11
(1,272)	1:61:A:LEU:HD12	1:84:A:ALA:H	12	0.11
(1,272)	1:61:A:LEU:HD13	1:84:A:ALA:H	12	0.11
(1,249)	1:52:A:LYS:H	1:58:A:GLU:H	12	0.11
(1,244)	1:51:A:ILE:H	1:53:A:ASP:H	18	0.11
(1,202)	1:48:A:ALA:H	1:86:A:VAL:H	3	0.11
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	4	0.11
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	6	0.11
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	8	0.11
(1,179)	1:45:A:GLY:H	1:67:A:GLY:H	15	0.11
(1,178)	1:45:A:GLY:H	1:92:A:CYS:H	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,176)	1:44:A:LYS:H	1:92:A:CYS:H	1	0.11
(1,176)	1:44:A:LYS:H	1:92:A:CYS:H	2	0.11
(1,176)	1:44:A:LYS:H	1:92:A:CYS:H	6	0.11
(1,176)	1:44:A:LYS:H	1:92:A:CYS:H	13	0.11
(1,160)	1:42:A:ILE:H	1:65:A:ASN:H	3	0.11
(1,160)	1:42:A:ILE:H	1:65:A:ASN:H	8	0.11
(1,160)	1:42:A:ILE:H	1:65:A:ASN:H	14	0.11
(1,140)	1:40:A:TYR:H	1:73:A:LEU:H	15	0.11
(1,122)	1:39:A:LEU:H	1:101:A:LYS:H	2	0.11
(1,116)	1:37:A:GLU:H	1:79:A:GLY:H	15	0.11
(1,115)	1:37:A:GLU:H	1:82:A:ARG:H	11	0.11
(1,111)	1:36:A:ALA:H	1:79:A:GLY:H	5	0.11
(1,108)	1:33:A:GLY:H	1:85:A:TRP:HH2	5	0.11
(1,103)	1:32:A:GLN:H	1:82:A:ARG:H	5	0.11
(1,103)	1:32:A:GLN:H	1:82:A:ARG:H	18	0.11
(1,101)	1:31:A:HIS:H	1:84:A:ALA:H	13	0.11
(1,100)	1:31:A:HIS:H	1:40:A:TYR:HE1	14	0.11
(1,100)	1:31:A:HIS:H	1:40:A:TYR:HE2	14	0.11
(1,56)	1:21:A:HIS:H	1:93:A:GLU:H	5	0.11
(1,52)	1:21:A:HIS:H	1:23:A:TYR:H	4	0.11
(1,52)	1:21:A:HIS:H	1:23:A:TYR:H	10	0.11
(1,47)	1:20:A:ILE:H	1:95:A:ALA:H	5	0.11
(2,1114)	1:202:A:THR:H	1:203:A:ILE:H	6	0.1
(2,1114)	1:202:A:THR:H	1:203:A:ILE:H	10	0.1
(2,1112)	1:200:A:GLY:H	1:204:A:VAL:H	3	0.1
(2,1111)	1:200:A:GLY:H	1:201:A:LYS:H	15	0.1
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	2	0.1
(2,1102)	1:198:A:ALA:H	1:200:A:GLY:H	18	0.1
(2,1100)	1:198:A:ALA:H	1:199:A:HIS:H	12	0.1
(2,993)	1:182:A:THR:H	1:183:A:VAL:H	11	0.1
(2,993)	1:182:A:THR:H	1:183:A:VAL:H	16	0.1
(2,975)	1:177:A:GLY:H	1:178:A:CYS:H	18	0.1
(2,963)	1:175:A:ILE:H	1:176:A:VAL:H	6	0.1
(2,957)	1:173:A:GLY:H	1:184:A:GLY:H	5	0.1
(2,934)	1:169:A:ARG:H	1:200:A:GLY:H	14	0.1
(2,934)	1:169:A:ARG:H	1:200:A:GLY:H	18	0.1
(2,926)	1:168:A:THR:H	1:172:A:ILE:H	5	0.1
(2,890)	1:162:A:GLY:H	1:205:A:VAL:H	8	0.1
(2,876)	1:157:A:MET:H	1:164:A:GLN:H	8	0.1
(2,867)	1:151:A:ALA:H	1:153:A:GLN:H	14	0.1
(2,857)	1:150:A:LEU:H	1:152:A:LYS:H	19	0.1
(2,849)	1:149:A:ASN:H	1:150:A:LEU:H	19	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,807)	1:146:A:THR:H	1:148:A:LEU:H	2	0.1
(2,807)	1:146:A:THR:H	1:148:A:LEU:H	17	0.1
(2,801)	1:144:A:ALA:H	1:147:A:LEU:H	19	0.1
(2,792)	1:143:A:ILE:H	1:177:A:GLY:H	18	0.1
(2,781)	1:142:A:ARG:H	1:144:A:ALA:H	8	0.1
(2,773)	1:140:A:THR:H	1:186:A:ILE:H	5	0.1
(2,773)	1:140:A:THR:H	1:186:A:ILE:H	19	0.1
(2,757)	1:139:A:VAL:H	1:178:A:CYS:H	3	0.1
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE1	10	0.1
(2,734)	1:134:A:LEU:H	1:136:A:PHE:HE2	10	0.1
(2,731)	1:134:A:LEU:HD21	1:135:A:ALA:H	1	0.1
(2,731)	1:134:A:LEU:HD22	1:135:A:ALA:H	1	0.1
(2,731)	1:134:A:LEU:HD23	1:135:A:ALA:H	1	0.1
(2,731)	1:134:A:LEU:HD21	1:135:A:ALA:H	19	0.1
(2,731)	1:134:A:LEU:HD22	1:135:A:ALA:H	19	0.1
(2,731)	1:134:A:LEU:HD23	1:135:A:ALA:H	19	0.1
(2,686)	1:124:A:LEU:H	1:125:A:GLN:H	16	0.1
(2,680)	1:122:A:ARG:H	1:126:A:VAL:H	6	0.1
(2,672)	1:120:A:MET:H	1:123:A:ARG:H	7	0.1
(2,667)	1:119:A:GLN:H	1:120:A:MET:H	7	0.1
(2,612)	1:106:A:ILE:H	1:108:A:VAL:H	4	0.1
(2,597)	1:103:A:ARG:H	1:106:A:ILE:H	11	0.1
(2,577)	1:99:A:TYR:H	1:102:A:PHE:H	8	0.1
(2,564)	1:95:A:ALA:H	1:96:A:GLU:H	5	0.1
(2,550)	1:86:A:VAL:H	1:87:A:ARG:H	11	0.1
(2,544)	1:83:A:SER:H	1:84:A:ALA:H	10	0.1
(2,521)	1:75:A:LEU:HD11	1:102:A:PHE:H	19	0.1
(2,521)	1:75:A:LEU:HD12	1:102:A:PHE:H	19	0.1
(2,521)	1:75:A:LEU:HD13	1:102:A:PHE:H	19	0.1
(2,508)	1:74:A:GLY:H	1:76:A:PHE:H	14	0.1
(2,499)	1:73:A:LEU:H	1:75:A:LEU:H	12	0.1
(2,498)	1:73:A:LEU:H	1:74:A:GLY:H	2	0.1
(2,498)	1:73:A:LEU:H	1:74:A:GLY:H	18	0.1
(2,476)	1:69:A:PHE:H	1:119:A:GLN:H	1	0.1
(2,476)	1:69:A:PHE:H	1:119:A:GLN:H	5	0.1
(2,469)	1:69:A:PHE:H	1:116:A:LEU:HD11	19	0.1
(2,469)	1:69:A:PHE:H	1:116:A:LEU:HD12	19	0.1
(2,469)	1:69:A:PHE:H	1:116:A:LEU:HD13	19	0.1
(2,466)	1:66:A:GLN:H	1:68:A:ASP:H	3	0.1
(2,437)	1:60:A:ILE:H	1:174:A:GLN:H	5	0.1
(2,425)	1:59:A:MET:H	1:61:A:LEU:H	11	0.1
(2,422)	1:59:A:MET:HE1	1:60:A:ILE:H	12	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,422)	1:59:A:MET:HE2	1:60:A:ILE:H	12	0.1
(2,422)	1:59:A:MET:HE3	1:60:A:ILE:H	12	0.1
(2,414)	1:54:A:GLU:H	1:56:A:GLY:H	18	0.1
(2,402)	1:52:A:LYS:H	1:53:A:ASP:H	17	0.1
(2,395)	1:51:A:ILE:H	1:85:A:TRP:H	17	0.1
(2,389)	1:51:A:ILE:H	1:85:A:TRP:HE3	2	0.1
(2,389)	1:51:A:ILE:H	1:85:A:TRP:HE3	3	0.1
(2,389)	1:51:A:ILE:H	1:85:A:TRP:HE3	10	0.1
(2,389)	1:51:A:ILE:H	1:85:A:TRP:HE3	13	0.1
(2,387)	1:51:A:ILE:H	1:59:A:MET:H	3	0.1
(2,380)	1:50:A:LEU:H	1:62:A:SER:H	9	0.1
(2,321)	1:47:A:VAL:H	1:90:A:THR:H	11	0.1
(2,321)	1:47:A:VAL:H	1:90:A:THR:H	13	0.1
(2,317)	1:47:A:VAL:H	1:65:A:ASN:H	10	0.1
(2,317)	1:47:A:VAL:H	1:65:A:ASN:H	12	0.1
(2,289)	1:44:A:LYS:H	1:94:A:VAL:H	2	0.1
(2,287)	1:44:A:LYS:H	1:67:A:GLY:H	2	0.1
(2,283)	1:43:A:VAL:H	1:68:A:ASP:H	1	0.1
(2,283)	1:43:A:VAL:H	1:68:A:ASP:H	11	0.1
(2,251)	1:42:A:ILE:H	1:68:A:ASP:H	12	0.1
(2,251)	1:42:A:ILE:H	1:68:A:ASP:H	13	0.1
(2,242)	1:41:A:TYR:H	1:96:A:GLU:H	15	0.1
(2,240)	1:41:A:TYR:H	1:43:A:VAL:H	18	0.1
(2,235)	1:41:A:TYR:H	1:95:A:ALA:H	3	0.1
(2,220)	1:39:A:LEU:H	1:102:A:PHE:H	4	0.1
(2,199)	1:38:A:THR:H	1:99:A:TYR:HE1	12	0.1
(2,199)	1:38:A:THR:H	1:99:A:TYR:HE2	12	0.1
(2,199)	1:38:A:THR:H	1:99:A:TYR:HE1	20	0.1
(2,199)	1:38:A:THR:H	1:99:A:TYR:HE2	20	0.1
(2,197)	1:37:A:GLU:H	1:99:A:TYR:H	5	0.1
(2,192)	1:36:A:ALA:H	1:80:A:GLN:H	7	0.1
(2,179)	1:32:A:GLN:H	1:34:A:GLU:H	1	0.1
(2,145)	1:29:A:LEU:H	1:87:A:ARG:H	3	0.1
(2,131)	1:29:A:LEU:H	1:30:A:ILE:H	6	0.1
(2,124)	1:26:A:LYS:H	1:89:A:LYS:H	19	0.1
(2,122)	1:26:A:LYS:H	1:90:A:THR:H	17	0.1
(2,99)	1:21:A:HIS:H	1:96:A:GLU:H	9	0.1
(2,91)	1:18:A:CYS:H	1:20:A:ILE:H	17	0.1
(1,717)	1:197:A:SER:H	1:199:A:HIS:H	2	0.1
(1,676)	1:184:A:GLY:H	1:188:A:LYS:H	6	0.1
(1,676)	1:184:A:GLY:H	1:188:A:LYS:H	13	0.1
(1,666)	1:178:A:CYS:H	1:182:A:THR:H	11	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,658)	1:175:A:ILE:H	1:177:A:GLY:H	16	0.1
(1,650)	1:174:A:GLN:H	1:178:A:CYS:H	17	0.1
(1,647)	1:173:A:GLY:H	1:183:A:VAL:H	9	0.1
(1,638)	1:171:A:GLU:H	1:175:A:ILE:H	13	0.1
(1,635)	1:170:A:GLN:H	1:174:A:GLN:H	2	0.1
(1,629)	1:169:A:ARG:H	1:201:A:LYS:H	9	0.1
(1,627)	1:168:A:THR:H	1:203:A:ILE:H	12	0.1
(1,627)	1:168:A:THR:H	1:203:A:ILE:H	14	0.1
(1,613)	1:165:A:ILE:H	1:202:A:THR:H	4	0.1
(1,585)	1:157:A:MET:H	1:159:A:HIS:H	2	0.1
(1,582)	1:155:A:ASP:H	1:157:A:MET:H	11	0.1
(1,582)	1:155:A:ASP:H	1:157:A:MET:H	18	0.1
(1,571)	1:151:A:ALA:H	1:156:A:ALA:H	7	0.1
(1,475)	1:136:A:PHE:H	1:138:A:ASP:H	6	0.1
(1,439)	1:124:A:LEU:H	1:127:A:LEU:H	5	0.1
(1,433)	1:120:A:MET:H	1:124:A:LEU:H	7	0.1
(1,426)	1:116:A:LEU:H	1:120:A:MET:H	11	0.1
(1,404)	1:107:A:GLN:H	1:112:A:ILE:H	3	0.1
(1,404)	1:107:A:GLN:H	1:112:A:ILE:H	13	0.1
(1,376)	1:100:A:LYS:H	1:104:A:GLN:H	17	0.1
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	3	0.1
(1,369)	1:97:A:ILE:H	1:99:A:TYR:H	17	0.1
(1,356)	1:85:A:TRP:H	1:87:A:ARG:H	9	0.1
(1,345)	1:76:A:PHE:H	1:78:A:GLU:H	9	0.1
(1,334)	1:75:A:LEU:HD11	1:100:A:LYS:H	6	0.1
(1,334)	1:75:A:LEU:HD12	1:100:A:LYS:H	6	0.1
(1,334)	1:75:A:LEU:HD13	1:100:A:LYS:H	6	0.1
(1,334)	1:75:A:LEU:HD11	1:100:A:LYS:H	15	0.1
(1,334)	1:75:A:LEU:HD12	1:100:A:LYS:H	15	0.1
(1,334)	1:75:A:LEU:HD13	1:100:A:LYS:H	15	0.1
(1,296)	1:67:A:GLY:H	1:95:A:ALA:H	16	0.1
(1,253)	1:56:A:GLY:H	1:85:A:TRP:HZ3	17	0.1
(1,247)	1:52:A:LYS:H	1:56:A:GLY:H	8	0.1
(1,196)	1:48:A:ALA:H	1:50:A:LEU:H	8	0.1
(1,178)	1:45:A:GLY:H	1:92:A:CYS:H	3	0.1
(1,176)	1:44:A:LYS:H	1:92:A:CYS:H	7	0.1
(1,140)	1:40:A:TYR:H	1:73:A:LEU:H	5	0.1
(1,140)	1:40:A:TYR:H	1:73:A:LEU:H	10	0.1
(1,136)	1:39:A:LEU:H	1:103:A:ARG:H	19	0.1
(1,115)	1:37:A:GLU:H	1:82:A:ARG:H	12	0.1
(1,108)	1:33:A:GLY:H	1:85:A:TRP:HH2	6	0.1
(1,108)	1:33:A:GLY:H	1:85:A:TRP:HH2	10	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,107)	1:33:A:GLY:H	1:85:A:TRP:H	16	0.1
(1,107)	1:33:A:GLY:H	1:85:A:TRP:H	20	0.1
(1,106)	1:33:A:GLY:H	1:36:A:ALA:H	5	0.1
(1,95)	1:30:A:ILE:H	1:50:A:LEU:H	2	0.1
(1,71)	1:29:A:LEU:H	1:48:A:ALA:H	11	0.1
(1,62)	1:23:A:TYR:H	1:44:A:LYS:H	18	0.1
(1,43)	1:19:A:HIS:H	1:98:A:SER:H	18	0.1
(1,41)	1:18:A:CYS:H	1:96:A:GLU:H	8	0.1
(1,10)	1:12:A:GLU:H	1:16:A:SER:H	18	0.1

10 Dihedral-angle violation analysis ⓘ

No dihedral-angle restraints found