



Full wwPDB NMR Structure Validation Report ⓘ

Dec 24, 2024 – 08:05 PM EST

PDB ID : 2LY0
BMRB ID : 18706
Title : Solution NMR structure of the influenza A virus S31N mutant (19-49) in presence of drug M2WJ332
Authors : Wu, Y.; Wang, J.; DeGrado, W.
Deposited on : 2012-09-10

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

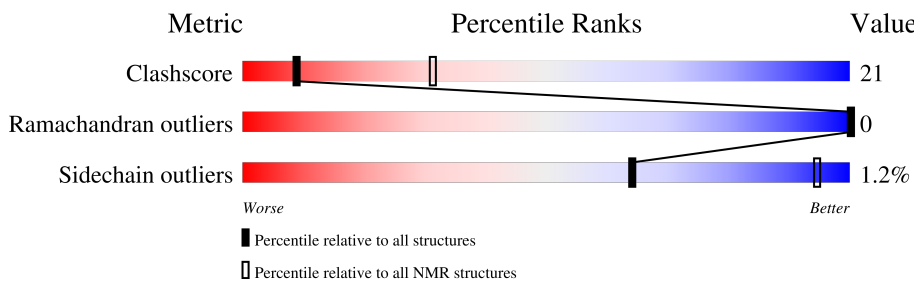
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 21%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	31	42% 19% 39%
1	B	31	42% 19% 39%
1	C	31	42% 19% 39%
1	D	31	42% 19% 39%

2 Ensemble composition and analysis

This entry contains 20 models. Model 13 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:27-A:45, B:27-B:45, C:27-C:45, D:27-D:45 (76)	0.34	13

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 6 single-model clusters were found.

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

3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 2081 atoms, of which 1067 are hydrogens and 0 are deuteriums.

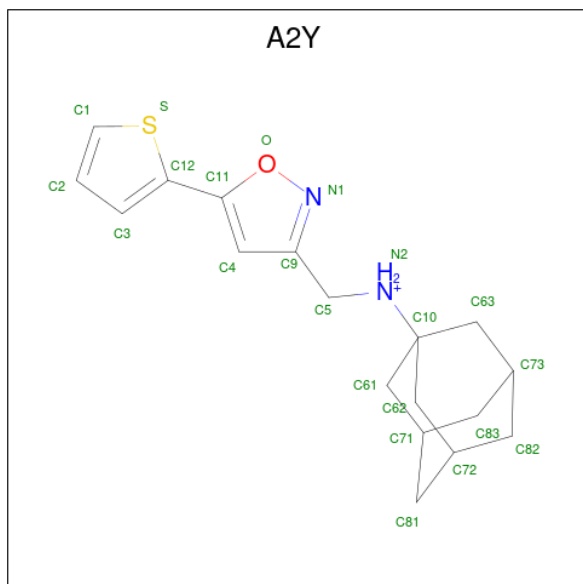
- Molecule 1 is a protein called Membrane ion channel M2.

Mol	Chain	Residues	Atoms				Trace	
			Total	C	H	N		O
1	A	31	509	165	261	40	43	0
1	B	31	509	165	261	40	43	0
1	C	31	509	165	261	40	43	0
1	D	31	509	165	261	40	43	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	19	SER	CYS	SEE REMARK 999	UNP Q6XT21
B	19	SER	CYS	SEE REMARK 999	UNP Q6XT21
C	19	SER	CYS	SEE REMARK 999	UNP Q6XT21
D	19	SER	CYS	SEE REMARK 999	UNP Q6XT21

- Molecule 2 is (3S,5S,7S)-N-{[5-(thiophen-2-yl)-1,2-oxazol-3-yl]methyl}tricyclo[3.3.1.1^{3,7}]decan-1-aminium (three-letter code: A2Y) (formula: C₁₈H₂₃N₂OS).



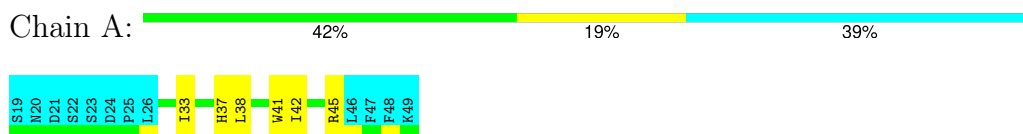
Mol	Chain	Residues	Atoms					
			Total	C	H	N	O	S
2	A	1	45	18	23	2	1	1

4 Residue-property plots

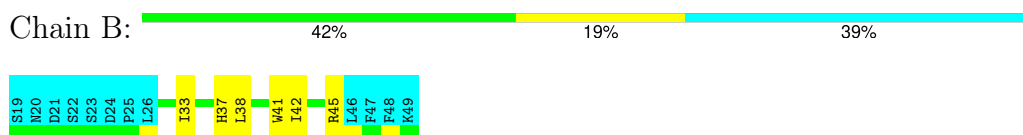
4.1 Average score per residue in the NMR ensemble

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.

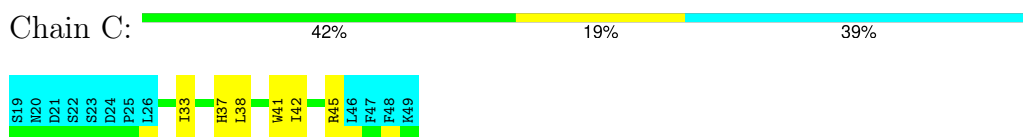
- Molecule 1: Membrane ion channel M2



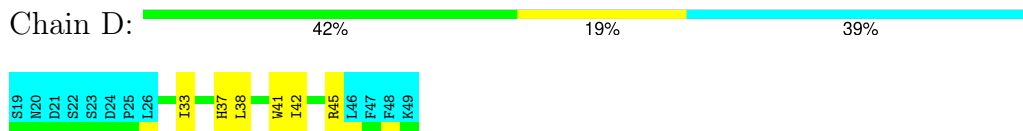
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2



4.2 Scores per residue for each member of the ensemble

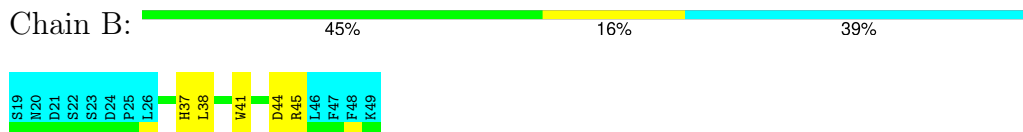
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

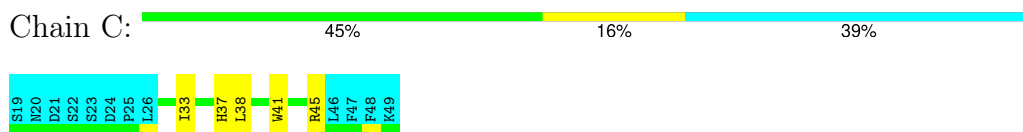
- Molecule 1: Membrane ion channel M2



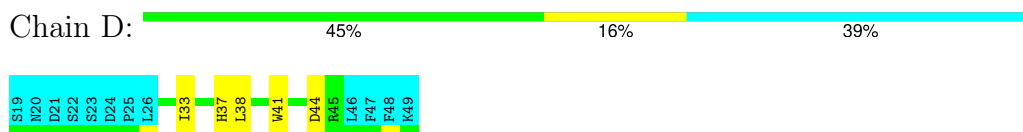
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2

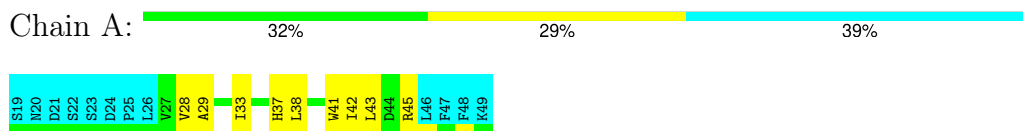


- Molecule 1: Membrane ion channel M2

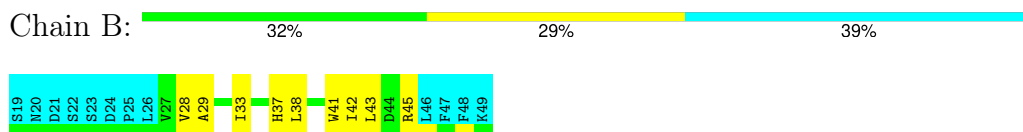


4.2.2 Score per residue for model 2

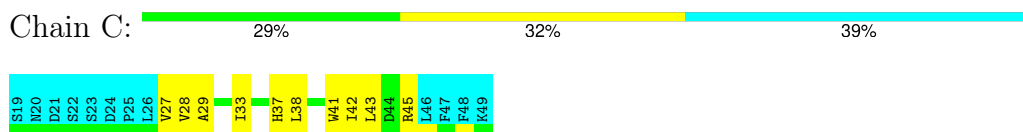
- Molecule 1: Membrane ion channel M2



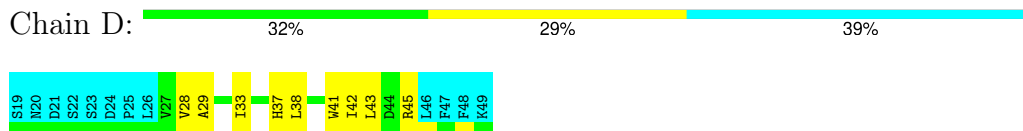
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2

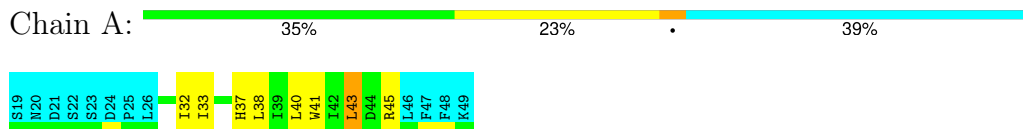


- Molecule 1: Membrane ion channel M2

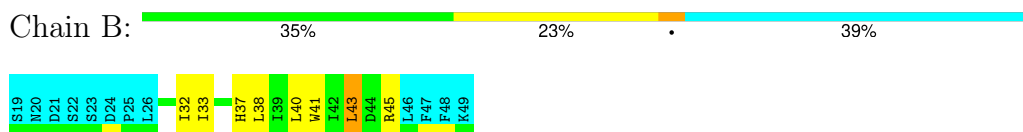


4.2.3 Score per residue for model 3

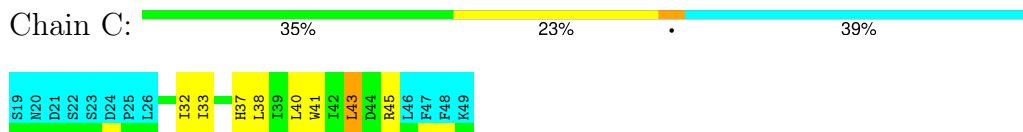
- Molecule 1: Membrane ion channel M2



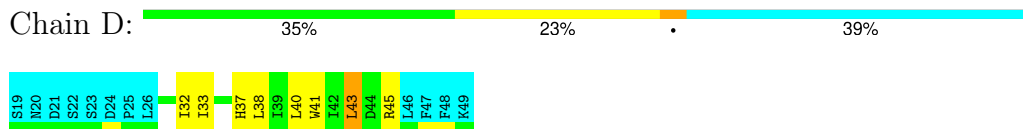
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2



4.2.4 Score per residue for model 4

- Molecule 1: Membrane ion channel M2

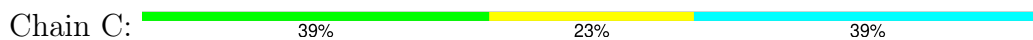


- Molecule 1: Membrane ion channel M2

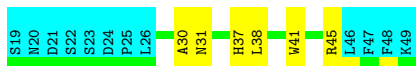




- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2



4.2.5 Score per residue for model 5

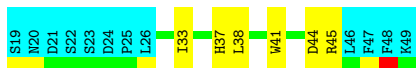
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2

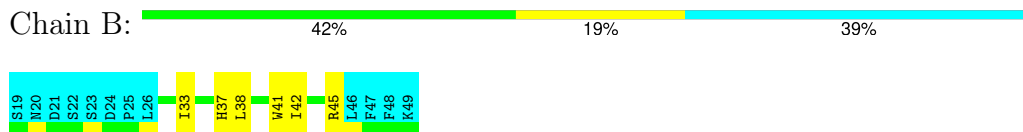


4.2.6 Score per residue for model 6

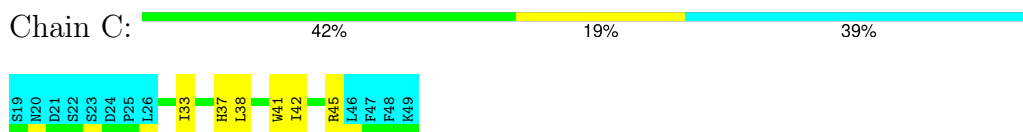
- Molecule 1: Membrane ion channel M2



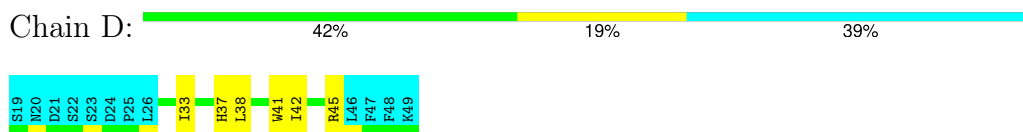
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2

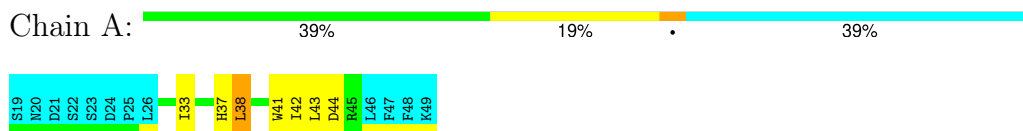


- Molecule 1: Membrane ion channel M2

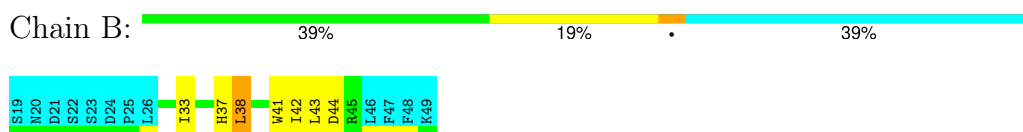


4.2.7 Score per residue for model 7

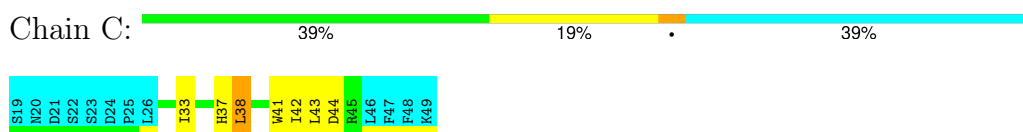
- Molecule 1: Membrane ion channel M2



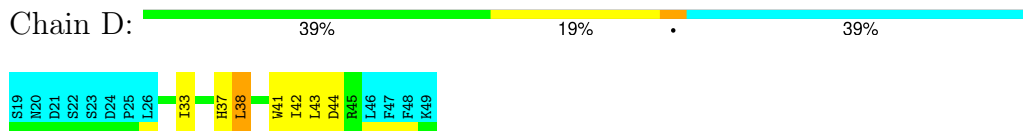
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2

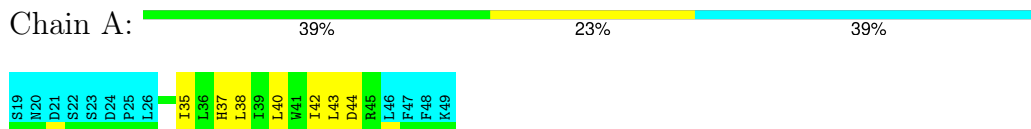


- Molecule 1: Membrane ion channel M2



4.2.8 Score per residue for model 8

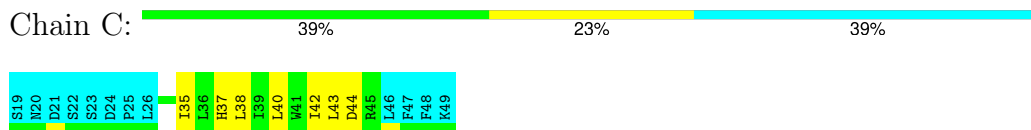
- Molecule 1: Membrane ion channel M2



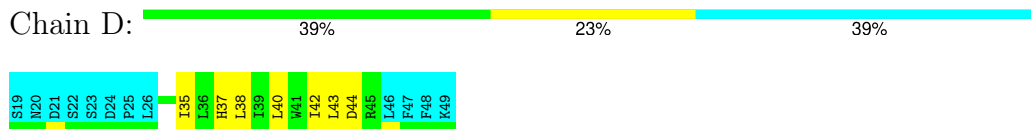
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2

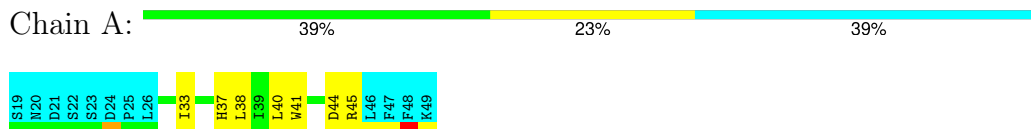


- Molecule 1: Membrane ion channel M2



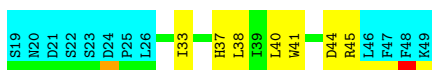
4.2.9 Score per residue for model 9

- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2

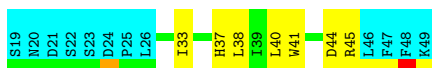




- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2

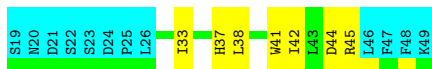


4.2.10 Score per residue for model 10

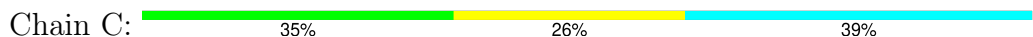
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2



4.2.11 Score per residue for model 11

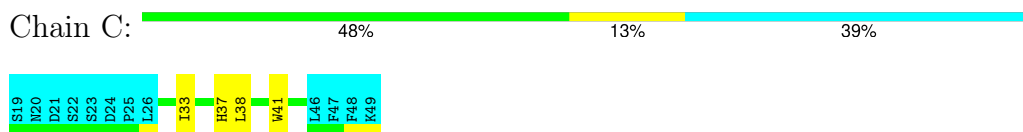
- Molecule 1: Membrane ion channel M2



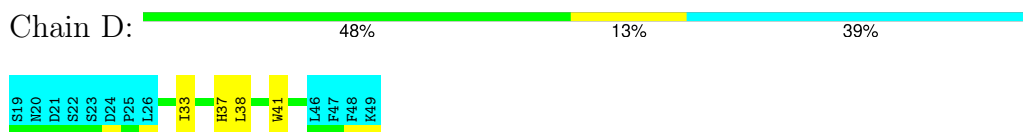
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2

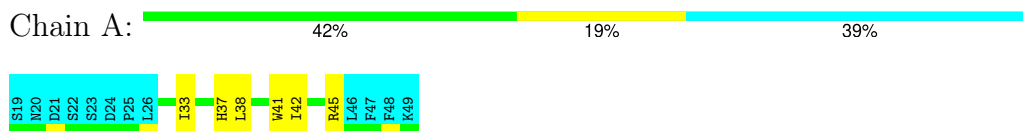


- Molecule 1: Membrane ion channel M2

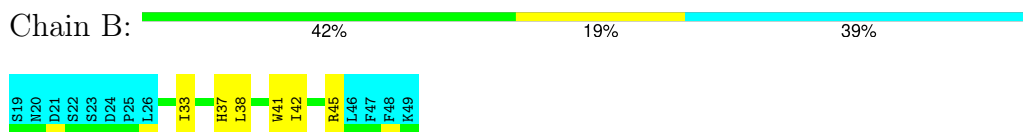


4.2.12 Score per residue for model 12

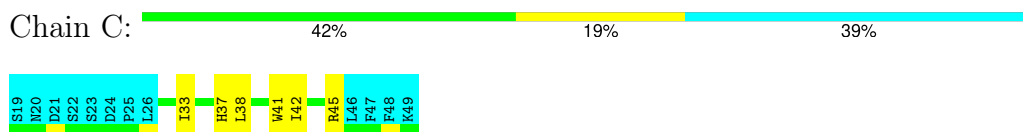
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2

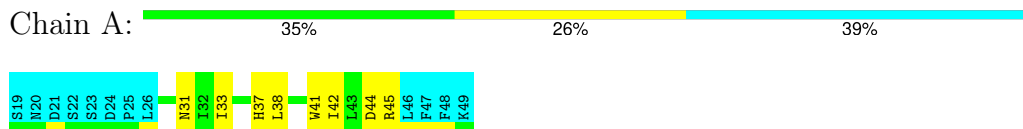


- Molecule 1: Membrane ion channel M2

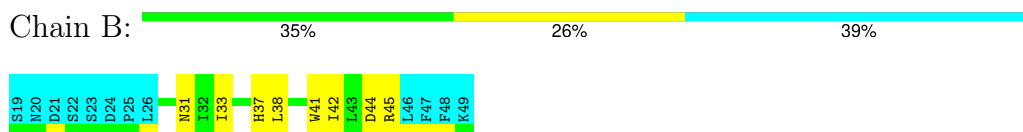


4.2.13 Score per residue for model 13 (medoid)

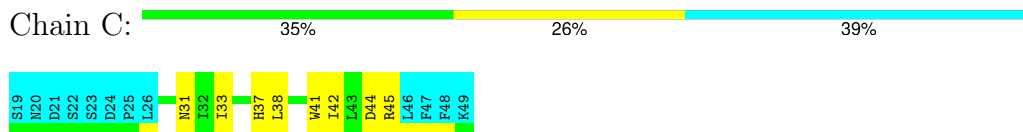
- Molecule 1: Membrane ion channel M2



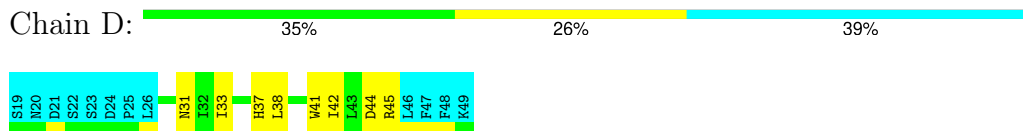
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2

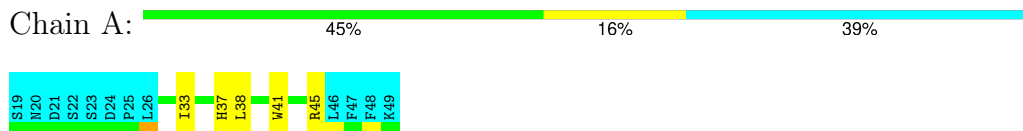


- Molecule 1: Membrane ion channel M2



4.2.14 Score per residue for model 14

- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2





- Molecule 1: Membrane ion channel M2

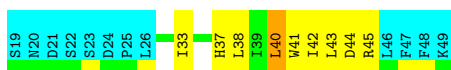
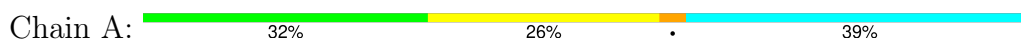


- Molecule 1: Membrane ion channel M2

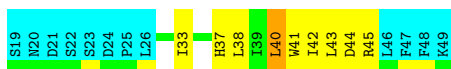
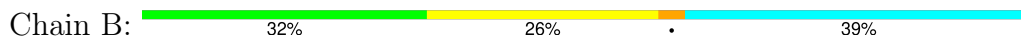


4.2.15 Score per residue for model 15

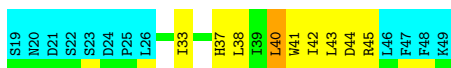
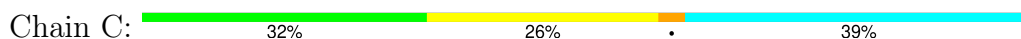
- Molecule 1: Membrane ion channel M2



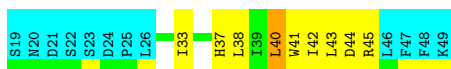
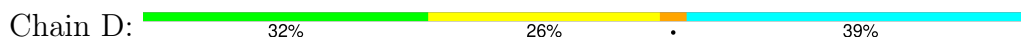
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2

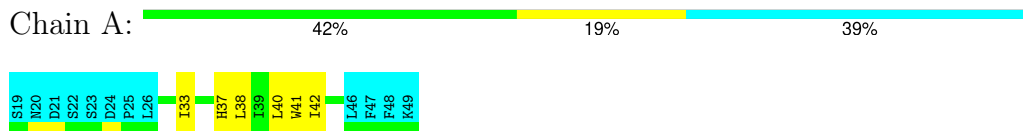


- Molecule 1: Membrane ion channel M2

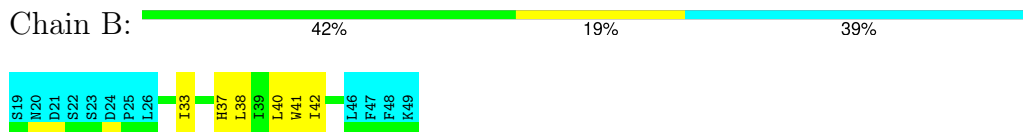


4.2.16 Score per residue for model 16

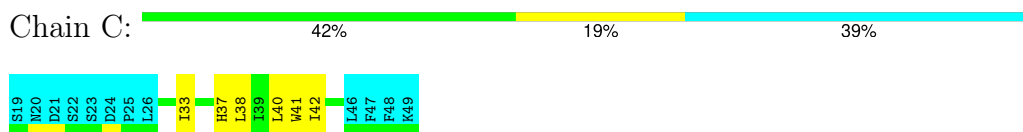
- Molecule 1: Membrane ion channel M2



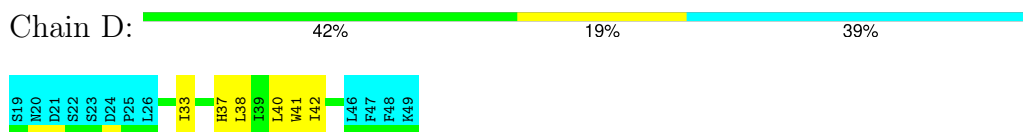
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2

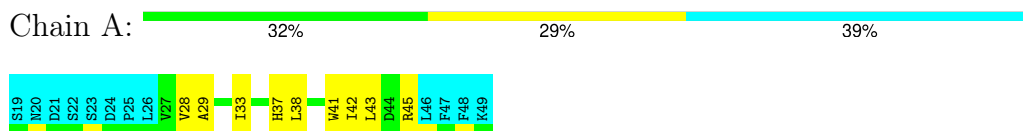


- Molecule 1: Membrane ion channel M2

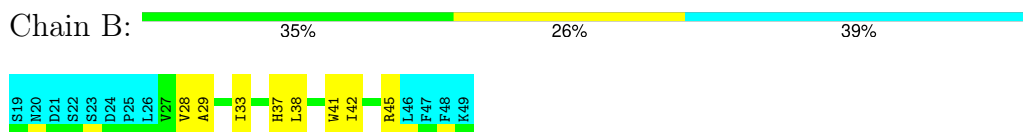


4.2.17 Score per residue for model 17

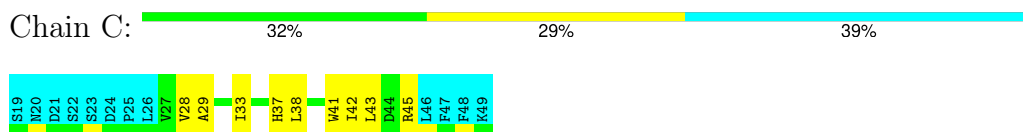
- Molecule 1: Membrane ion channel M2



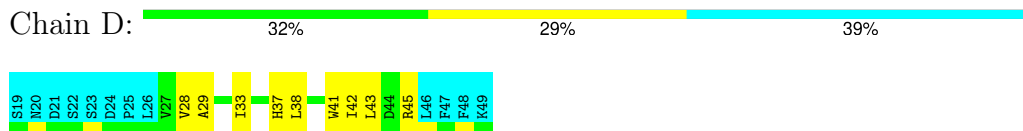
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2

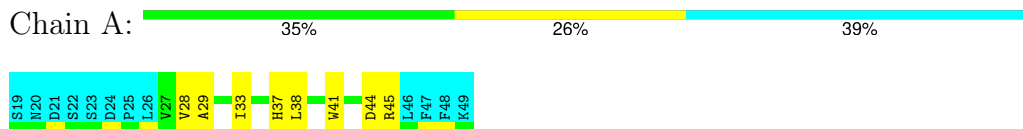


- Molecule 1: Membrane ion channel M2

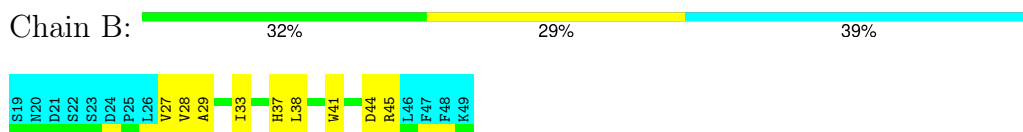


4.2.18 Score per residue for model 18

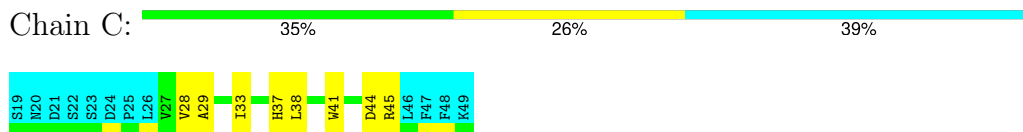
- Molecule 1: Membrane ion channel M2



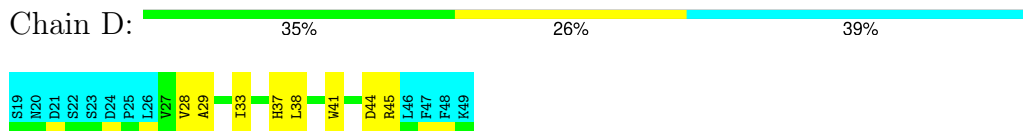
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2

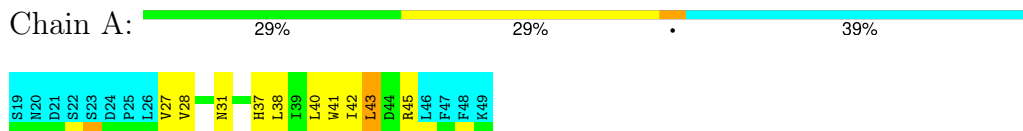


- Molecule 1: Membrane ion channel M2

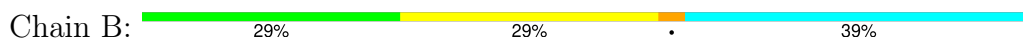


4.2.19 Score per residue for model 19

- Molecule 1: Membrane ion channel M2

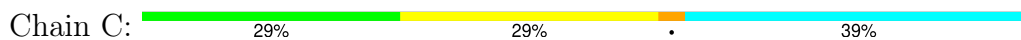


- Molecule 1: Membrane ion channel M2

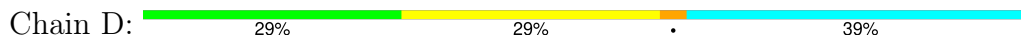




- Molecule 1: Membrane ion channel M2

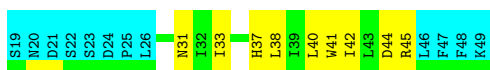


- Molecule 1: Membrane ion channel M2



4.2.20 Score per residue for model 20

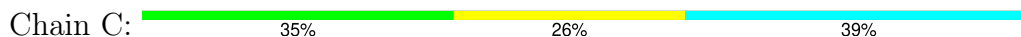
- Molecule 1: Membrane ion channel M2



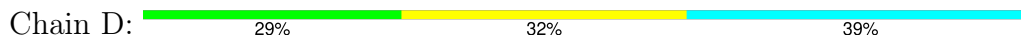
- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2



- Molecule 1: Membrane ion channel M2



5 Refinement protocol and experimental data overview

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

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

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

Software name	Classification	Version
X-PLOR NIH	structure solution	
X-PLOR NIH	refinement	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	377
Number of shifts mapped to atoms	377
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	21%

6 Model quality i

6.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: A2Y

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts i

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	151	170	170	11±2
1	B	151	170	170	11±2
1	C	151	170	170	11±2
1	D	151	170	170	11±2
2	A	22	23	23	0±1
All	All	12520	14060	14060	546

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 21.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:38:LEU:HD21	1:D:37:HIS:ND1	0.58	2.13	8	19
1:C:37:HIS:ND1	1:D:38:LEU:HD21	0.57	2.14	20	19
1:B:37:HIS:ND1	1:C:38:LEU:HD21	0.57	2.14	17	19
1:A:37:HIS:ND1	1:B:38:LEU:HD21	0.56	2.15	17	19
1:A:38:LEU:O	1:A:42:ILE:HG22	0.56	2.00	12	12
1:D:38:LEU:O	1:D:42:ILE:HG22	0.56	2.00	12	12
2:A:100:A2Y:H3	1:C:27:VAL:HG13	0.56	1.77	2	1
1:C:38:LEU:O	1:C:42:ILE:HG22	0.55	2.01	12	12

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:38:LEU:O	1:B:42:ILE:HG22	0.55	2.01	12	12
1:C:44:ASP:OD2	1:D:45:ARG:NE	0.54	2.40	5	2
1:C:33:ILE:CG2	1:D:38:LEU:CD1	0.54	2.86	7	16
1:C:44:ASP:OD2	1:D:45:ARG:NH1	0.54	2.41	10	4
1:A:44:ASP:OD2	1:B:45:ARG:NE	0.53	2.41	5	2
1:B:44:ASP:OD2	1:C:45:ARG:NH1	0.53	2.42	18	4
1:B:44:ASP:OD2	1:C:45:ARG:NE	0.53	2.41	9	2
1:A:33:ILE:CG2	1:B:38:LEU:CD1	0.53	2.87	14	16
1:D:41:TRP:CZ2	1:D:45:ARG:NE	0.53	2.77	6	2
1:A:44:ASP:OD2	1:B:45:ARG:NH1	0.53	2.42	10	4
1:A:41:TRP:CZ2	1:A:45:ARG:NE	0.52	2.78	6	2
1:A:38:LEU:CD1	1:D:33:ILE:CG2	0.52	2.87	14	17
1:B:41:TRP:CZ2	1:B:45:ARG:NE	0.52	2.77	4	2
1:B:33:ILE:CG2	1:C:38:LEU:CD1	0.52	2.88	14	16
1:A:45:ARG:NH1	1:D:44:ASP:OD2	0.52	2.42	18	4
1:C:41:TRP:CZ2	1:C:45:ARG:NE	0.52	2.78	6	2
1:A:45:ARG:NE	1:D:44:ASP:OD2	0.52	2.42	5	2
1:A:37:HIS:CE1	1:B:41:TRP:CE3	0.51	2.99	4	19
1:B:37:HIS:CE1	1:C:41:TRP:CE3	0.51	2.98	4	19
2:A:100:A2Y:S	1:B:27:VAL:HG22	0.51	2.46	18	1
1:C:37:HIS:CE1	1:D:41:TRP:CE3	0.51	2.99	4	19
1:A:41:TRP:CE3	1:D:37:HIS:CE1	0.51	2.99	4	19
1:A:35:ILE:HD12	1:A:35:ILE:N	0.50	2.21	8	1
1:D:43:LEU:O	1:D:43:LEU:HD13	0.50	2.07	3	2
1:D:35:ILE:HD12	1:D:35:ILE:N	0.50	2.21	8	1
1:C:35:ILE:N	1:C:35:ILE:HD12	0.50	2.21	8	1
1:A:43:LEU:O	1:A:43:LEU:HD13	0.50	2.07	3	2
1:B:37:HIS:ND1	1:C:38:LEU:CD2	0.50	2.75	17	16
1:B:35:ILE:HD12	1:B:35:ILE:N	0.49	2.21	8	1
1:C:37:HIS:ND1	1:D:38:LEU:CD2	0.49	2.75	20	17
1:B:43:LEU:HD13	1:B:43:LEU:O	0.49	2.07	3	2
2:A:100:A2Y:S	1:D:27:VAL:HG21	0.49	2.47	20	1
1:C:43:LEU:HD13	1:C:43:LEU:O	0.49	2.07	3	2
2:A:100:A2Y:S	1:C:27:VAL:HG21	0.49	2.47	4	2
1:A:38:LEU:CD2	1:D:37:HIS:ND1	0.49	2.75	13	17
1:B:40:LEU:N	1:B:40:LEU:CD2	0.49	2.76	9	4
1:A:40:LEU:HD12	1:A:40:LEU:N	0.49	2.23	20	2
1:A:37:HIS:ND1	1:B:38:LEU:CD2	0.48	2.76	20	16
1:B:40:LEU:N	1:B:40:LEU:HD12	0.48	2.22	20	2
1:C:40:LEU:HD12	1:C:40:LEU:N	0.48	2.23	20	2
1:D:40:LEU:HD12	1:D:40:LEU:N	0.48	2.22	20	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:45:ARG:NH1	1:D:44:ASP:CG	0.48	2.67	1	1
1:C:40:LEU:N	1:C:40:LEU:CD2	0.48	2.76	9	4
1:C:44:ASP:OD2	1:D:45:ARG:CZ	0.48	2.62	9	1
1:A:45:ARG:NH2	1:D:44:ASP:CG	0.48	2.67	15	1
1:B:28:VAL:HG13	1:B:29:ALA:N	0.47	2.25	18	2
1:D:40:LEU:CD2	1:D:40:LEU:N	0.47	2.76	9	4
1:A:40:LEU:CD2	1:A:40:LEU:N	0.47	2.76	9	2
1:A:28:VAL:HG13	1:A:29:ALA:N	0.47	2.25	18	2
1:C:40:LEU:N	1:C:40:LEU:HD22	0.47	2.25	9	4
1:B:44:ASP:OD2	1:C:45:ARG:CZ	0.47	2.63	9	1
1:D:28:VAL:HG13	1:D:29:ALA:N	0.47	2.25	18	2
1:A:44:ASP:OD2	1:B:45:ARG:CZ	0.47	2.63	9	1
1:A:40:LEU:N	1:A:40:LEU:HD22	0.47	2.25	9	3
1:B:40:LEU:N	1:B:40:LEU:HD22	0.46	2.24	9	4
1:C:30:ALA:HB2	1:D:31:ASN:OD1	0.46	2.11	4	1
1:A:44:ASP:CG	1:B:45:ARG:NH2	0.46	2.69	15	1
1:B:27:VAL:O	1:B:31:ASN:OD1	0.46	2.34	19	1
1:D:40:LEU:HD13	1:D:40:LEU:O	0.46	2.11	15	1
1:A:32:ILE:HG23	1:A:33:ILE:N	0.46	2.26	3	1
1:C:40:LEU:O	1:C:40:LEU:HD13	0.46	2.11	15	1
1:C:28:VAL:HG13	1:C:29:ALA:N	0.46	2.25	18	2
1:A:27:VAL:O	1:A:31:ASN:OD1	0.46	2.34	19	1
1:A:44:ASP:CG	1:B:45:ARG:NH1	0.46	2.68	1	1
1:B:32:ILE:HG23	1:B:33:ILE:N	0.46	2.26	3	1
1:D:27:VAL:O	1:D:31:ASN:OD1	0.46	2.34	19	1
1:D:40:LEU:N	1:D:40:LEU:HD22	0.45	2.25	9	4
1:B:40:LEU:O	1:B:40:LEU:HD13	0.45	2.11	15	1
1:C:44:ASP:CG	1:D:45:ARG:NH2	0.45	2.70	15	1
1:A:40:LEU:HD13	1:A:40:LEU:O	0.45	2.11	15	1
1:A:45:ARG:CZ	1:D:44:ASP:OD2	0.45	2.64	9	1
1:C:27:VAL:O	1:C:31:ASN:OD1	0.45	2.34	19	1
1:C:40:LEU:N	1:C:40:LEU:CD1	0.45	2.80	20	1
1:D:42:ILE:CG2	1:D:43:LEU:N	0.45	2.80	8	5
1:A:40:LEU:HD22	1:A:40:LEU:N	0.45	2.27	3	1
1:D:40:LEU:N	1:D:40:LEU:CD1	0.45	2.80	20	1
1:B:44:ASP:CG	1:C:45:ARG:NH1	0.45	2.70	1	1
1:B:42:ILE:CG2	1:B:43:LEU:N	0.44	2.80	8	4
1:A:40:LEU:N	1:A:40:LEU:CD2	0.44	2.79	3	2
1:A:44:ASP:O	1:A:44:ASP:OD1	0.44	2.36	8	1
1:B:40:LEU:N	1:B:40:LEU:CD1	0.44	2.80	20	1
1:C:42:ILE:CG2	1:C:43:LEU:N	0.44	2.80	2	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:32:ILE:HG23	1:D:33:ILE:N	0.44	2.26	3	1
1:C:44:ASP:O	1:C:44:ASP:OD1	0.44	2.36	8	1
1:B:44:ASP:CG	1:C:45:ARG:NH2	0.44	2.71	15	1
1:C:32:ILE:HG23	1:C:33:ILE:N	0.44	2.26	3	1
1:A:42:ILE:CG2	1:A:43:LEU:N	0.44	2.80	2	5
1:D:44:ASP:OD1	1:D:44:ASP:O	0.44	2.36	8	1
1:A:40:LEU:N	1:A:40:LEU:CD1	0.44	2.80	20	1
1:A:32:ILE:CG2	1:A:33:ILE:N	0.44	2.81	3	1
1:B:44:ASP:O	1:B:44:ASP:OD1	0.43	2.36	8	1
1:A:28:VAL:O	1:A:31:ASN:OD1	0.43	2.36	19	1
1:D:37:HIS:CD2	1:D:37:HIS:C	0.43	2.92	3	10
1:D:28:VAL:O	1:D:31:ASN:OD1	0.43	2.36	19	1
1:A:31:ASN:OD1	1:D:30:ALA:CB	0.43	2.66	20	1
1:B:42:ILE:HG23	1:B:43:LEU:N	0.43	2.29	8	2
1:B:32:ILE:CG2	1:B:33:ILE:N	0.43	2.81	3	1
1:C:37:HIS:CD2	1:C:37:HIS:C	0.43	2.92	3	9
1:D:32:ILE:CG2	1:D:33:ILE:N	0.43	2.81	3	1
1:C:44:ASP:CG	1:D:45:ARG:CZ	0.43	2.87	9	1
1:C:28:VAL:O	1:C:31:ASN:OD1	0.43	2.36	19	1
1:A:37:HIS:CD2	1:A:37:HIS:C	0.43	2.92	3	6
1:C:32:ILE:CG2	1:C:33:ILE:N	0.43	2.81	3	1
1:B:28:VAL:O	1:B:31:ASN:OD1	0.42	2.36	19	1
1:A:31:ASN:OD1	1:D:30:ALA:HB2	0.42	2.14	4	1
1:A:27:VAL:HG21	2:A:100:A2Y:S	0.42	2.54	5	1
1:B:37:HIS:CD2	1:B:37:HIS:C	0.42	2.92	4	5
1:C:38:LEU:O	1:C:42:ILE:CG2	0.42	2.68	12	1
1:A:42:ILE:HG23	1:A:43:LEU:N	0.42	2.29	8	2
1:B:38:LEU:O	1:B:42:ILE:CG2	0.42	2.68	12	1
2:A:100:A2Y:S	1:B:27:VAL:CG2	0.42	3.08	18	1
1:C:42:ILE:HG23	1:C:43:LEU:N	0.42	2.30	2	2
1:D:38:LEU:O	1:D:42:ILE:CG2	0.42	2.67	12	1
1:D:42:ILE:HG23	1:D:43:LEU:N	0.42	2.29	8	2
1:D:28:VAL:HG23	1:D:29:ALA:N	0.42	2.30	2	1
1:C:28:VAL:HG23	1:C:29:ALA:N	0.41	2.30	2	1
1:A:44:ASP:OD2	1:B:45:ARG:CD	0.41	2.69	5	1
1:B:44:ASP:OD2	1:C:45:ARG:CD	0.41	2.69	5	1
1:C:44:ASP:OD2	1:D:45:ARG:CD	0.41	2.68	5	1
1:A:38:LEU:O	1:A:42:ILE:CG2	0.41	2.67	12	1
1:A:28:VAL:HG23	1:A:29:ALA:N	0.41	2.31	2	1
1:A:35:ILE:N	1:A:35:ILE:CD1	0.41	2.84	8	1
1:B:28:VAL:HG23	1:B:29:ALA:N	0.41	2.30	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:30:ALA:HB2	1:C:31:ASN:OD1	0.40	2.16	4	1
1:C:35:ILE:N	1:C:35:ILE:CD1	0.40	2.84	8	1
1:D:35:ILE:N	1:D:35:ILE:CD1	0.40	2.84	8	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	19/31 (61%)	19±0 (100±0%)	0±0 (0±0%)	0±0 (0±0%)	100	100
1	B	19/31 (61%)	19±0 (100±0%)	0±0 (0±0%)	0±0 (0±0%)	100	100
1	C	19/31 (61%)	19±0 (100±0%)	0±0 (0±0%)	0±0 (0±0%)	100	100
1	D	19/31 (61%)	19±0 (100±0%)	0±0 (0±0%)	0±0 (0±0%)	100	100
All	All	1520/2480 (61%)	1520 (100%)	0 (0%)	0 (0%)	100	100

There are no Ramachandran outliers.

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	16/28 (57%)	16±0 (99±2%)	0±0 (1±3%)	64	94
1	B	16/28 (57%)	16±0 (99±2%)	0±0 (1±3%)	64	94
1	C	16/28 (57%)	16±0 (99±2%)	0±0 (1±3%)	64	94
1	D	16/28 (57%)	16±0 (99±2%)	0±0 (1±3%)	64	94
All	All	1280/2240 (57%)	1264 (99%)	16 (1%)	64	94

All 12 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	43	LEU	2
1	B	43	LEU	2
1	C	43	LEU	2
1	D	43	LEU	2
1	A	38	LEU	1
1	B	38	LEU	1
1	C	38	LEU	1
1	D	38	LEU	1
1	A	40	LEU	1
1	B	40	LEU	1
1	C	40	LEU	1
1	D	40	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](#)

1 ligand is modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
2	A2Y	A	100	-	23,26,26	5.47±0.08	4±1 (19±2%)

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

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
2	A2Y	A	100	-	28,39,39	1.07±0.02	1±0 (3±1%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	A2Y	A	100	-	-	0±0,5,37,37	0±0,6,5,5

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	A	100	A2Y	C12-S	25.65	1.47	1.72	5	20
2	A	100	A2Y	C4-C9	5.29	1.31	1.39	9	20
2	A	100	A2Y	C1-S	5.05	1.46	1.71	1	20
2	A	100	A2Y	C2-C3	2.42	1.32	1.39	9	4
2	A	100	A2Y	C4-C11	2.35	1.36	1.38	9	4
2	A	100	A2Y	C9-N1	2.27	1.26	1.36	6	20

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

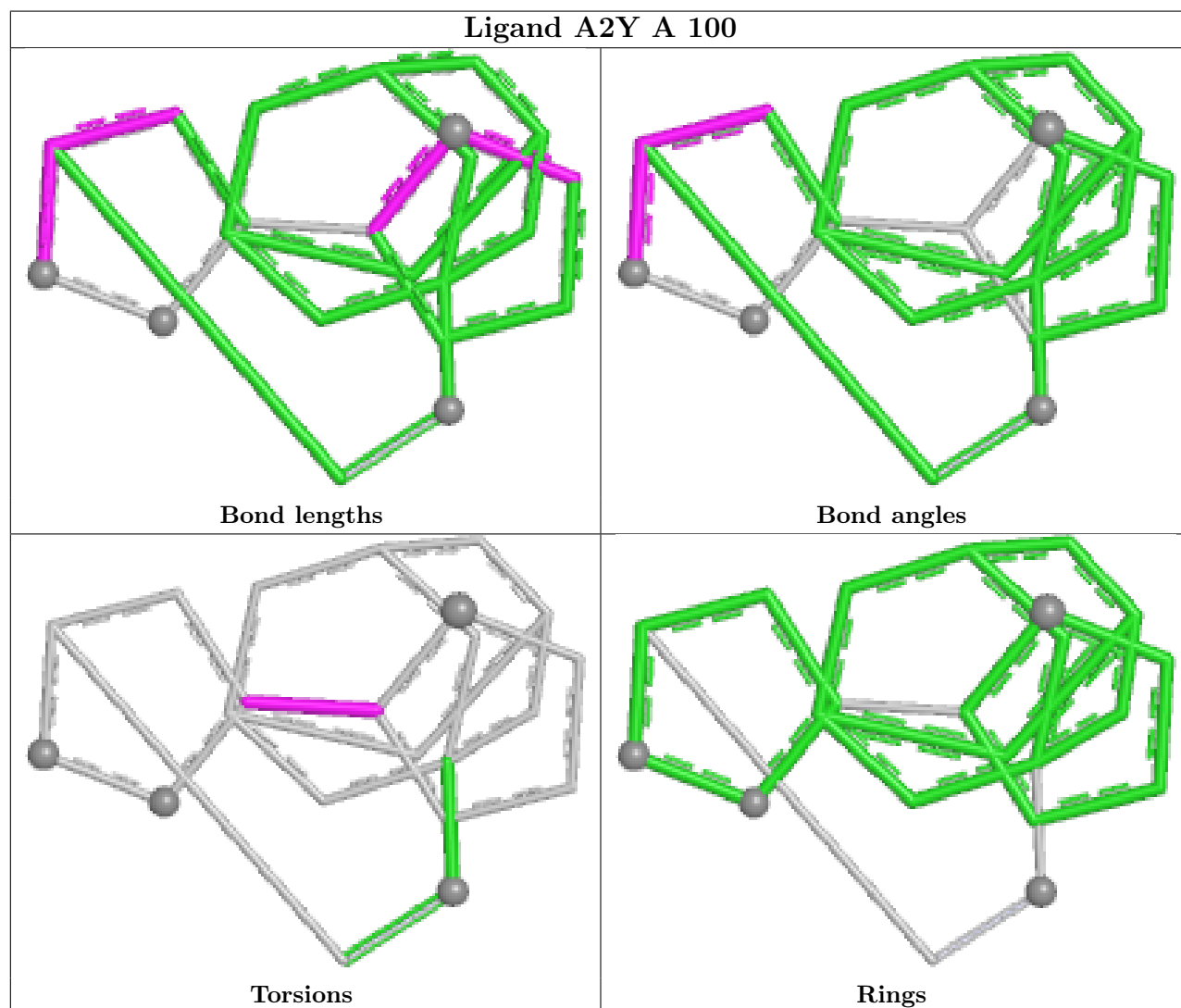
Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	A	100	A2Y	C4-C9-N1	2.98	107.04	111.42	18	20
2	A	100	A2Y	C3-C2-C1	2.02	108.15	113.74	9	2

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

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



6.7 Other polymers [\(i\)](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation i

The completeness of assignment taking into account all chemical shift lists is 21% for the well-defined parts and 21% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping i

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

Total number of shifts	377
Number of shifts mapped to atoms	377
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 i

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
¹³ C _α	30	-0.83 \pm 0.14	Should be checked
¹³ C _β	29	0.07 \pm 0.23	None needed (< 0.5 ppm)
¹³ C'	0	—	None (insufficient data)
¹⁵ N	29	1.67 \pm 0.39	Should be applied

7.1.3 Completeness of resonance assignments i

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 21%, i.e. 251 atoms were assigned a chemical shift out of a possible 1180. 0 out of 24 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	76/384 (20%)	38/156 (24%)	19/152 (12%)	19/76 (25%)
Sidechain	162/720 (22%)	111/488 (23%)	51/216 (24%)	0/16 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	13/76 (17%)	7/40 (18%)	5/28 (18%)	1/8 (12%)
Overall	251/1180 (21%)	156/684 (23%)	75/396 (19%)	20/100 (20%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 21%, i.e. 377 atoms were assigned a chemical shift out of a possible 1804. 0 out of 32 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	118/616 (19%)	59/248 (24%)	30/248 (12%)	29/120 (24%)
Sidechain	230/1032 (22%)	157/688 (23%)	73/320 (23%)	0/24 (0%)
Aromatic	29/156 (19%)	17/80 (21%)	11/68 (16%)	1/8 (12%)
Overall	377/1804 (21%)	233/1016 (23%)	114/636 (18%)	30/152 (20%)

7.1.4 Statistically unusual chemical shifts [i](#)

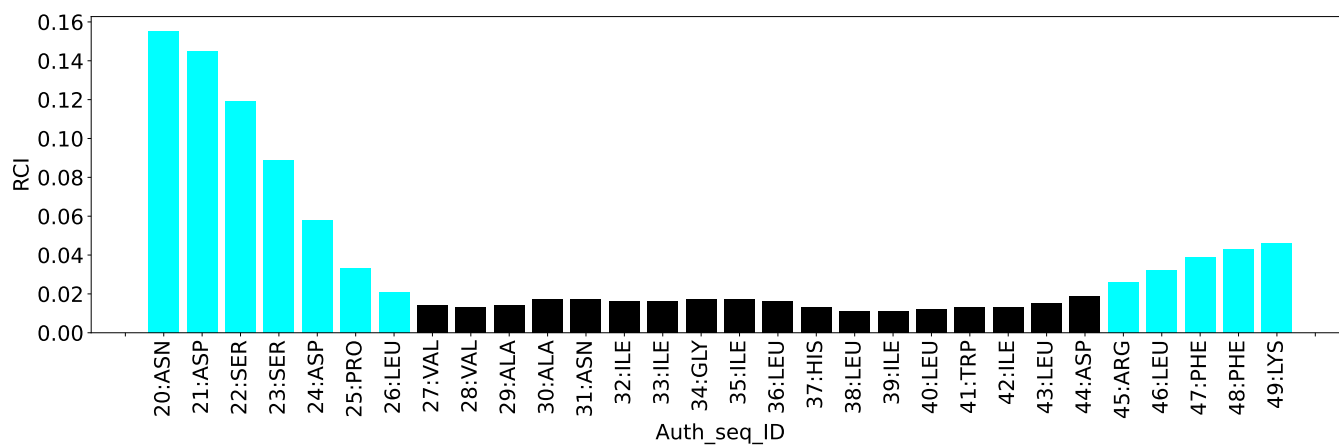
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	37	HIS	HE1	4.92	5.13 – 10.76	-5.4

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	1032
Intra-residue ($ i-j =0$)	428
Sequential ($ i-j =1$)	186
Medium range ($ i-j >1$ and $ i-j <5$)	134
Long range ($ i-j \geq 5$)	12
Inter-chain	136
Hydrogen bond restraints	136
Disulfide bond restraints	0
Total dihedral-angle restraints	107
Number of unmapped restraints	0
Number of restraints per residue	9.1
Number of long range restraints per residue ¹	0.1

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	20.2	0.2
0.2-0.5 (Medium)	6.3	0.5
>0.5 (Large)	122.3	12.88

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	2.9	9.32
10.0-20.0 (Medium)	0.1	12.7
>20.0 (Large)	None	None

9 Distance violation analysis i

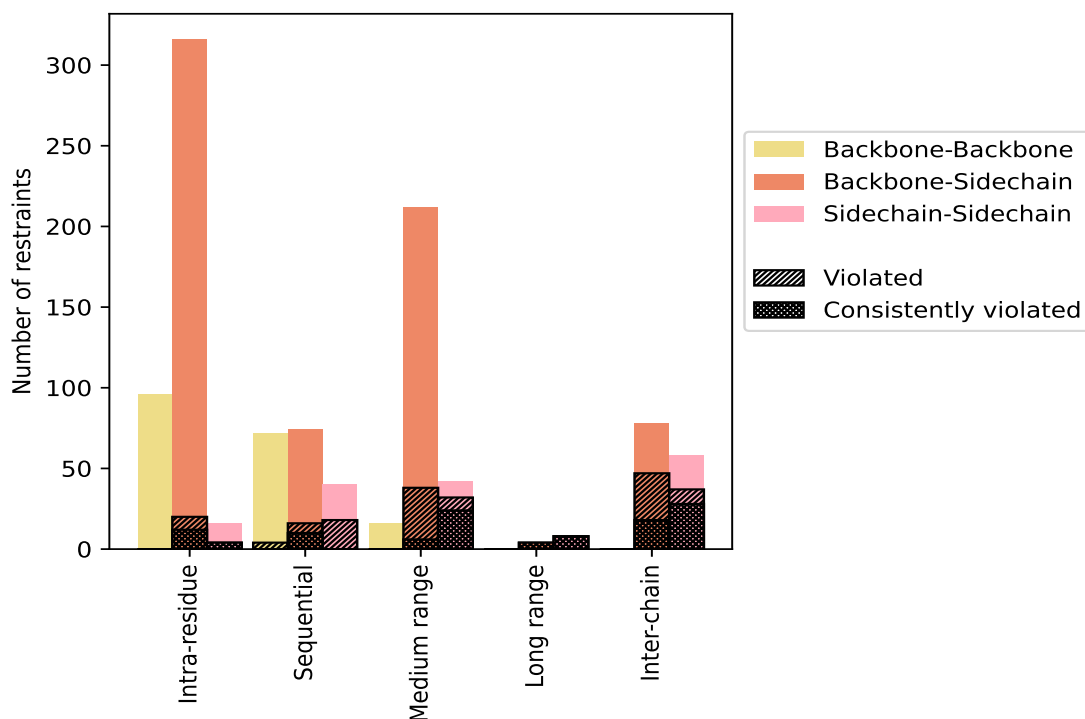
9.1 Summary of distance violations i

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	428	41.5	24	5.6	2.3	16	3.7	1.6
Backbone-Backbone	96	9.3	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	316	30.6	20	6.3	1.9	12	3.8	1.2
Sidechain-Sidechain	16	1.6	4	25.0	0.4	4	25.0	0.4
Sequential ($i-j =1$)	186	18.0	38	20.4	3.7	10	5.4	1.0
Backbone-Backbone	72	7.0	4	5.6	0.4	0	0.0	0.0
Backbone-Sidechain	74	7.2	16	21.6	1.6	10	13.5	1.0
Sidechain-Sidechain	40	3.9	18	45.0	1.7	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	134	13.0	46	34.3	4.5	30	22.4	2.9
Backbone-Backbone	16	1.6	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	76	7.4	14	18.4	1.4	6	7.9	0.6
Sidechain-Sidechain	42	4.1	32	76.2	3.1	24	57.1	2.3
Long range ($i-j \geq 5$)	12	1.2	12	100.0	1.2	12	100.0	1.2
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	4	0.4	4	100.0	0.4	4	100.0	0.4
Sidechain-Sidechain	8	0.8	8	100.0	0.8	8	100.0	0.8
Inter-chain	136	13.2	84	61.8	8.1	46	33.8	4.5
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	78	7.6	47	60.3	4.6	18	23.1	1.7
Sidechain-Sidechain	58	5.6	37	63.8	3.6	28	48.3	2.7
Hydrogen bond	136	13.2	24	17.6	2.3	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1032	100.0	228	22.1	22.1	114	11.0	11.0
Backbone-Backbone	184	17.8	4	2.2	0.4	0	0.0	0.0
Backbone-Sidechain	684	66.3	125	18.3	12.1	50	7.3	4.8
Sidechain-Sidechain	164	15.9	99	60.4	9.6	64	39.0	6.2

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	20	20	34	12	67	153	3.52	11.14	2.75	3.01
2	16	16	34	12	65	143	3.55	10.06	2.75	3.16
3	20	18	42	12	64	156	3.38	11.81	2.87	2.87
4	20	18	42	12	66	158	3.4	11.04	2.7	2.77
5	16	20	34	12	65	147	3.47	10.44	2.8	3.04
6	20	16	34	12	65	147	3.49	10.66	2.72	3.18
7	16	18	34	12	74	154	3.69	12.88	2.84	3.32
8	16	20	30	12	55	133	3.6	12.3	2.92	2.96
9	16	16	47	12	66	157	3.2	10.28	2.84	2.71
10	20	16	38	12	68	154	3.57	11.06	2.77	3.14

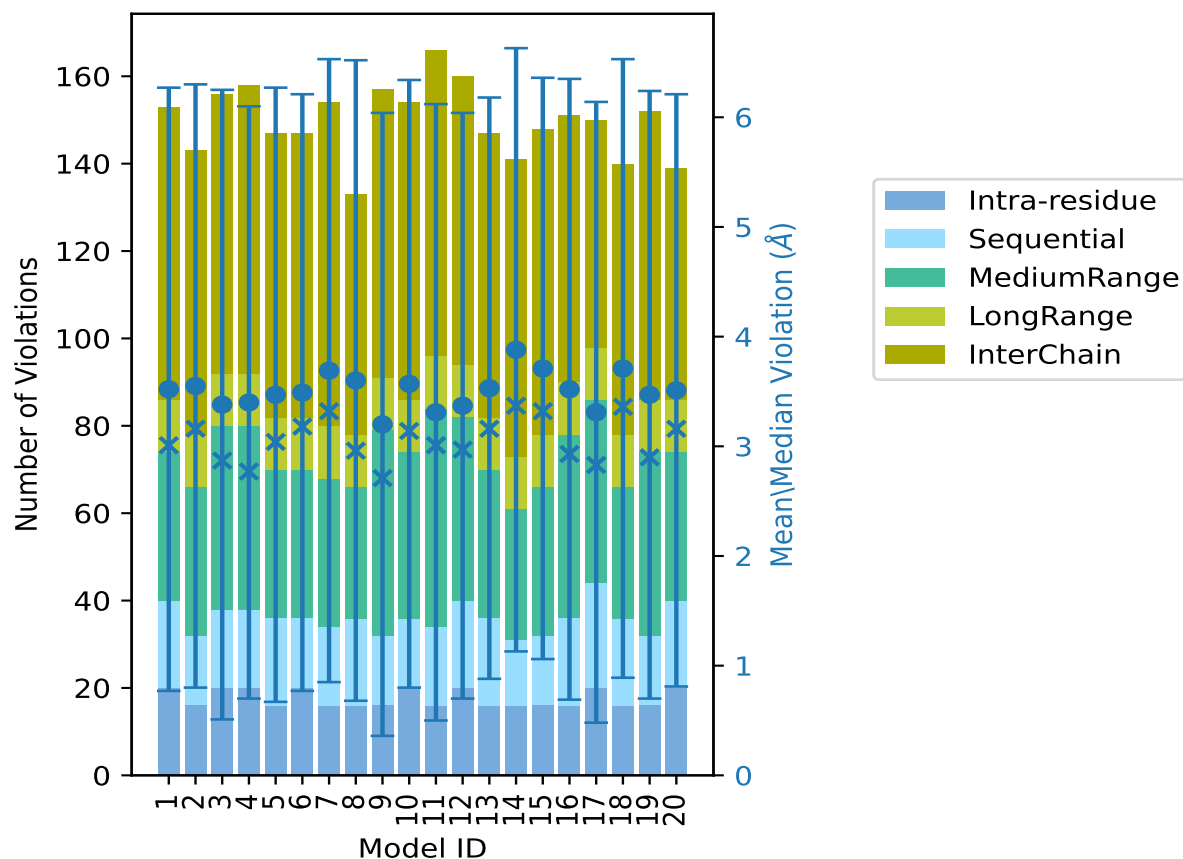
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	16	18	50	12	70	166	3.31	12.06	2.81	3.01
12	20	20	42	12	66	160	3.37	9.94	2.67	2.97
13	16	20	34	12	65	147	3.53	10.6	2.65	3.16
14	16	15	30	12	68	141	3.88	11.26	2.75	3.37
15	16	16	34	12	70	148	3.71	10.5	2.65	3.32
16	16	20	42	12	61	151	3.52	11.75	2.83	2.93
17	20	24	42	12	52	150	3.31	10.23	2.83	2.83
18	16	20	30	12	62	140	3.71	12.2	2.82	3.36
19	16	16	42	12	66	152	3.47	11.83	2.77	2.9
20	20	20	34	12	53	139	3.51	9.75	2.7	3.16

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

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



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

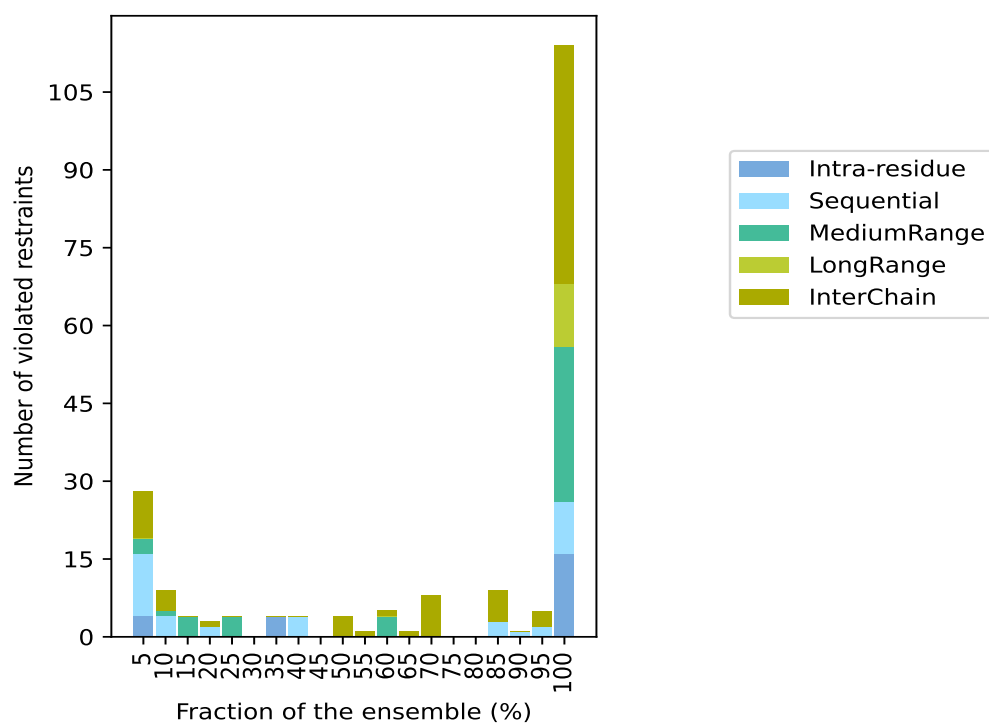
9.3 Distance violation statistics for the ensemble

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 692(IR:404, SQ:148, MR:88, LR:0, IC:52) 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	%
4	12	3	0	9	28	1	5.0
0	4	1	0	4	9	2	10.0
0	0	4	0	0	4	3	15.0
0	2	0	0	1	3	4	20.0
0	0	4	0	0	4	5	25.0
0	0	0	0	0	0	6	30.0
4	0	0	0	0	4	7	35.0
0	4	0	0	0	4	8	40.0
0	0	0	0	0	0	9	45.0
0	0	0	0	4	4	10	50.0
0	0	0	0	1	1	11	55.0
0	0	4	0	1	5	12	60.0
0	0	0	0	1	1	13	65.0
0	0	0	0	8	8	14	70.0
0	0	0	0	0	0	15	75.0
0	0	0	0	0	0	16	80.0
0	3	0	0	6	9	17	85.0
0	1	0	0	0	1	18	90.0
0	2	0	0	3	5	19	95.0
16	10	30	12	46	114	20	100.0

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

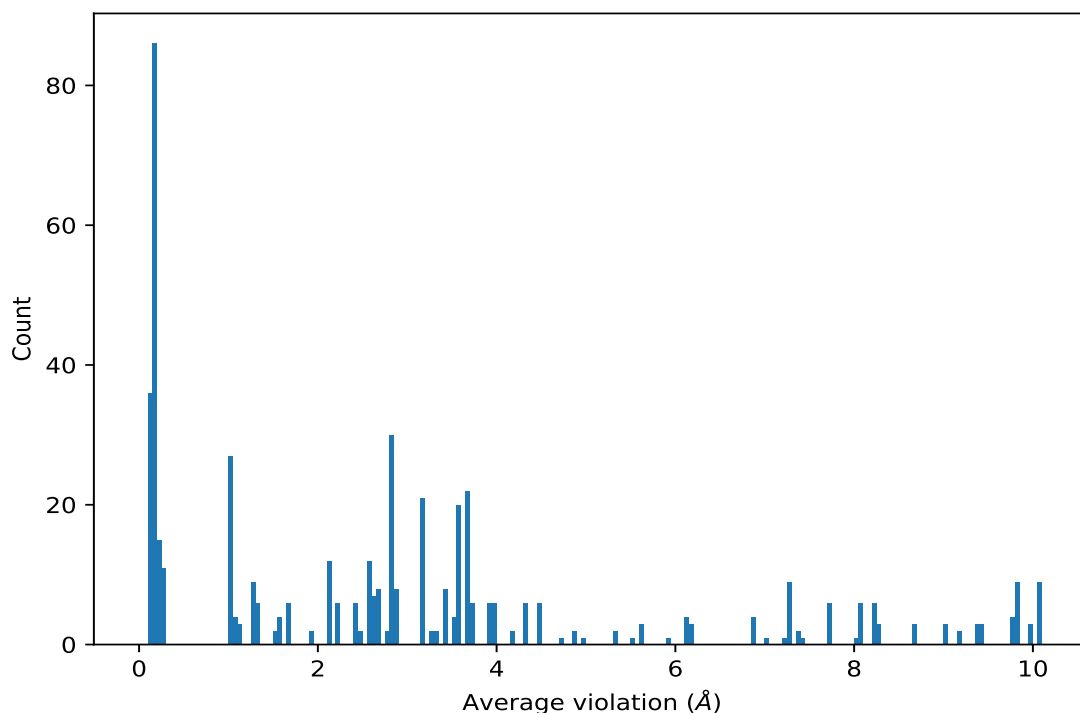
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG12	20	10.09	0.5	10.02
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG13	20	10.09	0.5	10.02
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG12	20	10.09	0.5	10.02
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG13	20	10.09	0.5	10.02
(1,630)	1:33:D:ILE:HD13	1:35:C:ILE:HG12	20	10.09	0.5	10.02
(1,630)	1:33:D:ILE:HD13	1:35:C:ILE:HG13	20	10.09	0.5	10.02
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG21	20	10.09	0.5	10.02
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG22	20	10.09	0.5	10.02
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG23	20	10.09	0.5	10.02
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	20	9.97	0.46	10.08
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	20	9.97	0.46	10.08
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	20	9.97	0.46	10.08
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	20	9.8	0.18	9.84
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	20	9.8	0.18	9.84
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	20	9.8	0.18	9.84
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	20	9.8	0.18	9.84

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	20	9.8	0.18	9.84
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	20	9.8	0.18	9.84
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	20	9.8	0.18	9.84
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	20	9.8	0.18	9.84
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	20	9.8	0.18	9.84
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	20	9.77	0.05	9.77
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	20	9.75	0.23	9.86
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	20	9.75	0.23	9.86
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	20	9.75	0.23	9.86
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	20	9.43	0.04	9.43
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	20	9.41	1.41	9.05
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	20	9.41	1.41	9.05
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	20	9.39	0.22	9.31
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	20	9.39	0.22	9.31
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	20	9.39	0.22	9.31
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	20	9.2	2.72	9.71
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	20	9.2	2.72	9.71
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	20	9.0	0.34	9.09
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	20	9.0	0.34	9.09
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	20	9.0	0.34	9.09
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	20	8.67	0.18	8.62
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	20	8.67	0.18	8.62
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	20	8.67	0.18	8.62
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	20	8.29	0.16	8.25
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	20	8.29	0.16	8.25
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	20	8.29	0.16	8.25
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	20	8.22	0.18	8.24
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	20	8.22	0.18	8.24
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	20	8.22	0.18	8.24
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	20	8.22	0.18	8.24
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	20	8.22	0.18	8.24
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	20	8.22	0.18	8.24
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	20	8.08	0.36	8.16
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	20	8.08	0.36	8.16
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	20	8.08	0.36	8.16
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	20	8.08	0.36	8.16
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	20	8.08	0.36	8.16
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	20	8.08	0.36	8.16
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	20	8.04	0.04	8.05
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	20	7.74	0.39	7.8
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	20	7.74	0.39	7.8
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	20	7.74	0.39	7.8

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	20	7.73	0.35	7.85
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	20	7.73	0.35	7.85
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	20	7.73	0.35	7.85
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	20	7.43	0.05	7.42
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	20	7.39	0.12	7.38
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	20	7.39	0.09	7.39
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	20	7.28	0.22	7.22
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	20	7.28	0.22	7.22
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	20	7.28	0.22	7.22
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	20	7.27	0.16	7.28
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	20	7.27	0.16	7.28
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	20	7.27	0.16	7.28
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	20	7.27	0.16	7.28
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	20	7.27	0.16	7.28
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	20	7.27	0.16	7.28
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	20	7.2	0.14	7.16
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	20	7.04	0.08	7.04
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	20	6.88	0.2	6.84
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	20	6.88	0.2	6.84
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	20	6.88	0.2	6.84
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	20	6.87	0.09	6.86
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	20	6.17	0.39	6.32
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	20	6.17	0.39	6.32
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	20	6.17	0.39	6.32
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	20	6.13	0.07	6.12
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	20	6.12	0.38	6.28
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	20	6.12	0.38	6.28
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	20	6.12	0.38	6.28
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	20	5.93	0.08	5.92
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	20	5.64	0.09	5.6
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	20	5.64	0.09	5.6
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	20	5.63	0.09	5.62
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	20	5.54	0.07	5.54
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	20	5.32	0.1	5.28
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	20	5.32	0.1	5.28
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	20	4.96	0.04	4.95
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	20	4.89	0.07	4.86
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	20	4.89	0.07	4.86
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	20	4.74	0.07	4.72
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	20	4.47	0.21	4.41
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	20	4.47	0.21	4.41
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	20	4.47	0.21	4.41

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	20	4.47	0.21	4.41
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	20	4.47	0.21	4.41
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	20	4.47	0.21	4.41
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	20	4.3	0.17	4.26
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	20	4.3	0.17	4.26
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	20	4.3	0.17	4.26
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	20	4.3	0.17	4.26
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	20	4.3	0.17	4.26
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	20	4.3	0.17	4.26
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	20	4.17	0.1	4.13
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	20	4.17	0.1	4.13
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	20	3.98	0.22	4.04
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	20	3.98	0.22	4.04
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	20	3.98	0.22	4.04
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	20	3.98	0.22	4.04
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	20	3.98	0.22	4.04
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	20	3.98	0.22	4.04
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	20	3.93	0.18	3.96
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	20	3.93	0.18	3.96
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	20	3.93	0.18	3.96
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	20	3.93	0.18	3.96
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	20	3.93	0.18	3.96
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	20	3.93	0.18	3.96
(1,809)	1:35:C:ILE:HD13	2:100:A:A2Y:H663	20	3.7	1.33	3.42
(1,809)	1:35:C:ILE:HD12	2:100:A:A2Y:H663	20	3.7	1.33	3.42
(1,809)	1:35:C:ILE:HD11	2:100:A:A2Y:H663	20	3.7	1.33	3.42
(1,809)	1:35:C:ILE:HD11	2:100:A:A2Y:H683	20	3.7	1.33	3.42
(1,809)	1:35:C:ILE:HD12	2:100:A:A2Y:H683	20	3.7	1.33	3.42
(1,809)	1:35:C:ILE:HD13	2:100:A:A2Y:H683	20	3.7	1.33	3.42
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	20	3.69	0.06	3.66
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	20	3.69	0.06	3.66
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	20	3.68	0.04	3.68
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	20	3.68	0.04	3.68
(1,810)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	20	3.66	1.24	3.82
(1,810)	1:35:D:ILE:HD13	2:100:A:A2Y:H663	20	3.66	1.24	3.82
(1,810)	1:35:D:ILE:HD12	2:100:A:A2Y:H663	20	3.66	1.24	3.82
(1,810)	1:35:D:ILE:HD11	2:100:A:A2Y:H663	20	3.66	1.24	3.82
(1,810)	1:35:D:ILE:HD11	2:100:A:A2Y:H683	20	3.66	1.24	3.82
(1,810)	1:35:D:ILE:HD13	2:100:A:A2Y:H683	20	3.66	1.24	3.82
(1,811)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	20	3.66	1.24	3.82
(1,811)	1:35:D:ILE:HD13	2:100:A:A2Y:H663	20	3.66	1.24	3.82
(1,811)	1:35:D:ILE:HD12	2:100:A:A2Y:H663	20	3.66	1.24	3.82

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,811)	1:35:D:ILE:HD11	2:100:A:A2Y:H663	20	3.66	1.24	3.82
(1,811)	1:35:D:ILE:HD11	2:100:A:A2Y:H683	20	3.66	1.24	3.82
(1,811)	1:35:D:ILE:HD13	2:100:A:A2Y:H683	20	3.66	1.24	3.82
(1,812)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	20	3.66	1.24	3.82
(1,812)	1:35:D:ILE:HD13	2:100:A:A2Y:H663	20	3.66	1.24	3.82
(1,812)	1:35:D:ILE:HD12	2:100:A:A2Y:H663	20	3.66	1.24	3.82
(1,812)	1:35:D:ILE:HD11	2:100:A:A2Y:H663	20	3.66	1.24	3.82
(1,812)	1:35:D:ILE:HD11	2:100:A:A2Y:H683	20	3.66	1.24	3.82
(1,812)	1:35:D:ILE:HD13	2:100:A:A2Y:H683	20	3.66	1.24	3.82
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	20	3.57	0.07	3.53
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	20	3.57	0.07	3.53
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	20	3.57	0.44	3.42
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	20	3.57	0.44	3.42
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	20	3.57	0.44	3.42
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	20	3.57	0.44	3.42
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	20	3.57	0.44	3.42
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	20	3.57	0.44	3.42
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	20	3.57	0.44	3.42
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	20	3.57	0.44	3.42
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	20	3.57	0.44	3.42
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	20	3.57	0.44	3.42
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	20	3.57	0.44	3.42
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	20	3.57	0.44	3.42
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	20	3.57	0.44	3.42
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	20	3.57	0.44	3.42
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	20	3.57	0.44	3.42
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	20	3.57	0.44	3.42
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	20	3.57	0.44	3.42
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	20	3.57	0.44	3.42
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	20	3.51	0.97	3.26
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	20	3.51	0.97	3.26
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	20	3.51	0.97	3.26
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	20	3.51	0.97	3.26
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	20	3.44	0.3	3.45
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	20	3.44	0.3	3.45
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	20	3.44	0.3	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	20	3.44	0.3	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	20	3.44	0.3	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	20	3.44	0.3	3.45
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	20	3.41	0.08	3.39
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	20	3.41	0.08	3.39
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	20	3.34	0.03	3.32

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	20	3.34	0.03	3.32
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	20	3.25	0.08	3.22
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	20	3.25	0.08	3.22
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	20	3.19	0.43	3.2
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	20	3.19	0.43	3.2
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	20	3.19	0.43	3.2
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	20	3.19	0.43	3.2
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	20	3.19	0.43	3.2
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	20	3.19	0.43	3.2
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	20	3.17	0.24	3.28
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	20	3.17	0.24	3.28
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	20	3.17	0.24	3.28
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	20	3.17	0.24	3.28
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	20	3.17	0.24	3.28
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	20	3.17	0.24	3.28
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	20	3.17	0.24	3.28
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	20	3.17	0.24	3.28
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	20	3.17	0.24	3.28
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	20	3.17	0.24	3.28
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	20	3.17	0.24	3.28
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	20	3.17	0.24	3.28
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	20	3.16	0.2	3.14
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	20	3.16	0.2	3.14
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	20	3.16	0.2	3.14
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	20	2.9	0.34	3.14
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	20	2.9	0.34	3.14
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	20	2.9	0.34	3.14
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	20	2.9	0.34	3.14
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	20	2.9	0.34	3.14
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	20	2.9	0.34	3.14
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	20	2.85	0.18	2.76
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	20	2.85	0.18	2.76
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG21	20	2.84	0.34	2.96
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG22	20	2.84	0.34	2.96
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG23	20	2.84	0.34	2.96
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG12	20	2.84	0.34	2.96
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG13	20	2.84	0.34	2.96
(1,250)	1:33:D:ILE:HD13	1:35:D:ILE:HG12	20	2.84	0.34	2.96
(1,250)	1:33:D:ILE:HD13	1:35:D:ILE:HG13	20	2.84	0.34	2.96
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG21	20	2.84	0.34	2.96
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG22	20	2.84	0.34	2.96
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG23	20	2.84	0.34	2.96

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG12	20	2.84	0.34	2.96
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG13	20	2.84	0.34	2.96
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG21	20	2.84	0.34	2.96
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG22	20	2.84	0.34	2.96
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG23	20	2.84	0.34	2.96
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG12	20	2.84	0.34	2.96
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG13	20	2.84	0.34	2.96
(1,440)	1:33:D:ILE:HD13	1:35:D:ILE:HG12	20	2.84	0.34	2.96
(1,440)	1:33:D:ILE:HD13	1:35:D:ILE:HG13	20	2.84	0.34	2.96
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG21	20	2.84	0.34	2.96
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG22	20	2.84	0.34	2.96
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG23	20	2.84	0.34	2.96
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG12	20	2.84	0.34	2.96
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG13	20	2.84	0.34	2.96
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	20	2.82	0.05	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	20	2.82	0.05	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	20	2.82	0.05	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	20	2.82	0.05	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	20	2.82	0.05	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	20	2.82	0.05	2.81
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	20	2.79	0.05	2.79
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	20	2.79	0.05	2.79
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	20	2.66	0.32	2.72
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	20	2.66	0.32	2.72
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	20	2.66	0.32	2.72
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	20	2.66	0.32	2.72
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	20	2.61	1.53	2.9
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	20	2.56	0.05	2.58
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	20	2.56	0.05	2.58
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	20	2.56	0.05	2.58
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	20	2.56	0.05	2.58
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	20	2.56	0.05	2.58
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	20	2.56	0.05	2.58
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	20	2.56	0.05	2.58
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	20	2.56	0.05	2.58
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	20	2.56	0.05	2.58
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	20	2.56	0.05	2.58
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	20	2.56	0.05	2.58
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	20	2.56	0.05	2.58
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	20	2.45	0.11	2.41
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	20	2.45	0.11	2.41
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	20	2.41	0.1	2.37

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	20	2.41	0.1	2.37
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	20	2.41	0.1	2.37
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	20	2.41	0.1	2.37
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	20	2.41	0.1	2.37
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	20	2.41	0.1	2.37
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	20	2.11	0.31	2.18
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	20	2.11	0.31	2.18
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	20	2.11	0.31	2.18
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	20	2.11	0.31	2.18
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	20	2.11	0.31	2.18
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	20	2.11	0.31	2.18
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	20	1.66	0.1	1.68
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	20	1.66	0.1	1.68
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	20	1.66	0.1	1.68
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	20	1.66	0.1	1.68
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	20	1.66	0.1	1.68
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	20	1.66	0.1	1.68
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	20	1.58	0.0	1.58
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	20	1.58	0.0	1.58
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	20	1.53	0.2	1.44
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	20	1.53	0.2	1.44
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	20	1.31	0.07	1.3
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	20	1.31	0.07	1.3
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	20	1.31	0.07	1.3
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	20	1.31	0.07	1.3
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	20	1.31	0.07	1.3
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	20	1.31	0.07	1.3
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	20	1.03	0.16	0.98
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	20	1.03	0.16	0.98
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	20	1.03	0.16	0.98
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	20	1.03	0.16	0.98
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	20	1.03	0.16	0.98
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	20	1.03	0.16	0.98
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	20	1.03	0.16	0.98
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	20	1.03	0.16	0.98
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	20	1.03	0.16	0.98
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	20	1.03	0.16	0.98
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	20	1.03	0.16	0.98
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	20	1.03	0.16	0.98
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	20	0.27	0.04	0.28
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	20	0.2	0.05	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	20	0.2	0.0	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	20	0.2	0.0	0.2
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	20	0.17	0.02	0.17
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	20	0.17	0.02	0.17
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	20	0.17	0.02	0.17
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	20	0.17	0.02	0.17
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	20	0.17	0.03	0.16
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	19	2.64	1.18	2.86
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H683	19	2.64	1.18	2.86
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	19	2.64	1.18	2.86
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H683	19	2.64	1.18	2.86
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	19	2.64	1.18	2.86
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H683	19	2.64	1.18	2.86
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	19	0.29	0.16	0.22
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	19	0.29	0.16	0.22
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	19	0.29	0.16	0.22
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	19	0.29	0.16	0.22
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	19	0.29	0.16	0.22
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	19	0.29	0.16	0.22
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	18	0.16	0.03	0.16
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	18	0.16	0.03	0.16
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	18	0.16	0.03	0.16
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H683	17	2.21	1.01	2.57
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H663	17	2.21	1.01	2.57
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H683	17	2.21	1.01	2.57
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H663	17	2.21	1.01	2.57
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H683	17	2.21	1.01	2.57
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H663	17	2.21	1.01	2.57
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H683	17	2.1	0.83	2.12
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H663	17	2.1	0.83	2.12
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H683	17	2.1	0.83	2.12
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H663	17	2.1	0.83	2.12
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H683	17	2.1	0.83	2.12
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H663	17	2.1	0.83	2.12
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	17	0.16	0.03	0.16
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	17	0.16	0.03	0.16
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	17	0.16	0.03	0.16
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	17	0.16	0.03	0.16
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	17	0.16	0.03	0.16
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	17	0.16	0.03	0.16
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	17	0.16	0.03	0.16
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	17	0.16	0.03	0.16
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	17	0.16	0.03	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,805)	1:31:C:ASN:HA	2:100:A:A2Y:H663	14	2.69	0.87	2.93
(1,805)	1:31:C:ASN:HA	2:100:A:A2Y:H683	14	2.69	0.87	2.93
(1,761)	1:32:C:ILE:H	2:100:A:A2Y:H663	14	2.68	1.01	3.2
(1,761)	1:32:C:ILE:H	2:100:A:A2Y:H683	14	2.68	1.01	3.2
(1,766)	1:34:D:GLY:H	2:100:A:A2Y:H683	14	1.28	0.53	1.34
(1,766)	1:34:D:GLY:H	2:100:A:A2Y:H663	14	1.28	0.53	1.34
(1,767)	1:34:D:GLY:H	2:100:A:A2Y:H683	14	1.28	0.53	1.34
(1,767)	1:34:D:GLY:H	2:100:A:A2Y:H663	14	1.28	0.53	1.34
(1,768)	1:34:D:GLY:H	2:100:A:A2Y:H683	14	1.28	0.53	1.34
(1,768)	1:34:D:GLY:H	2:100:A:A2Y:H663	14	1.28	0.53	1.34
(1,770)	1:37:D:HIS:H	2:100:A:A2Y:H683	14	1.13	0.43	1.16
(1,771)	1:37:D:HIS:H	2:100:A:A2Y:H683	14	1.13	0.43	1.16
(1,772)	1:37:D:HIS:H	2:100:A:A2Y:H683	14	1.13	0.43	1.16
(1,769)	1:37:C:HIS:H	2:100:A:A2Y:H683	13	1.56	0.64	1.5
(1,769)	1:37:C:HIS:H	2:100:A:A2Y:H663	13	1.56	0.64	1.5
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD11	12	0.19	0.05	0.17
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD12	12	0.19	0.05	0.17
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD13	12	0.19	0.05	0.17
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD11	12	0.19	0.05	0.17
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD12	12	0.19	0.05	0.17
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD13	12	0.19	0.05	0.17
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD11	12	0.19	0.05	0.17
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD12	12	0.19	0.05	0.17
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD13	12	0.19	0.05	0.17
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD11	12	0.19	0.05	0.17
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD12	12	0.19	0.05	0.17
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD13	12	0.19	0.05	0.17
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD11	12	0.14	0.03	0.14
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD12	12	0.14	0.03	0.14
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD13	12	0.14	0.03	0.14
(1,765)	1:34:C:GLY:H	2:100:A:A2Y:H683	11	1.94	0.7	2.1
(1,765)	1:34:C:GLY:H	2:100:A:A2Y:H663	11	1.94	0.7	2.1
(1,817)	1:30:C:ALA:HB1	2:100:A:A2Y:H663	10	1.28	0.41	1.34
(1,817)	1:30:C:ALA:HB2	2:100:A:A2Y:H663	10	1.28	0.41	1.34
(1,817)	1:30:C:ALA:HB3	2:100:A:A2Y:H663	10	1.28	0.41	1.34
(1,818)	1:30:D:ALA:HB1	2:100:A:A2Y:H663	10	1.04	0.5	0.93
(1,818)	1:30:D:ALA:HB2	2:100:A:A2Y:H663	10	1.04	0.5	0.93
(1,818)	1:30:D:ALA:HB3	2:100:A:A2Y:H683	10	1.04	0.5	0.93
(1,818)	1:30:D:ALA:HB3	2:100:A:A2Y:H663	10	1.04	0.5	0.93
(1,818)	1:30:D:ALA:HB2	2:100:A:A2Y:H683	10	1.04	0.5	0.93
(1,819)	1:30:D:ALA:HB1	2:100:A:A2Y:H663	10	1.04	0.5	0.93
(1,819)	1:30:D:ALA:HB2	2:100:A:A2Y:H663	10	1.04	0.5	0.93

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,819)	1:30:D:ALA:HB3	2:100:A:A2Y:H683	10	1.04	0.5	0.93
(1,819)	1:30:D:ALA:HB3	2:100:A:A2Y:H663	10	1.04	0.5	0.93
(1,819)	1:30:D:ALA:HB2	2:100:A:A2Y:H683	10	1.04	0.5	0.93
(1,820)	1:30:D:ALA:HB1	2:100:A:A2Y:H663	10	1.04	0.5	0.93
(1,820)	1:30:D:ALA:HB2	2:100:A:A2Y:H663	10	1.04	0.5	0.93
(1,820)	1:30:D:ALA:HB3	2:100:A:A2Y:H683	10	1.04	0.5	0.93
(1,820)	1:30:D:ALA:HB3	2:100:A:A2Y:H663	10	1.04	0.5	0.93
(1,820)	1:30:D:ALA:HB2	2:100:A:A2Y:H683	10	1.04	0.5	0.93
(2,81)	1:35:C:ILE:O	1:39:C:ILE:H	9	0.11	0.01	0.11
(2,83)	1:35:D:ILE:O	1:39:D:ILE:H	9	0.11	0.01	0.11
(2,85)	1:35:D:ILE:O	1:39:D:ILE:H	9	0.11	0.01	0.11
(2,87)	1:35:D:ILE:O	1:39:D:ILE:H	9	0.11	0.01	0.11
(1,1)	1:23:C:SER:H	1:24:C:ASP:H	8	0.15	0.03	0.16
(1,191)	1:23:D:SER:H	1:24:D:ASP:H	8	0.15	0.03	0.15
(1,381)	1:23:D:SER:H	1:24:D:ASP:H	8	0.15	0.03	0.15
(1,571)	1:23:D:SER:H	1:24:D:ASP:H	8	0.15	0.03	0.15
(1,184)	1:48:C:PHE:H	1:48:C:PHE:HD2	7	1.09	0.09	1.16
(1,374)	1:48:D:PHE:H	1:48:D:PHE:HD2	7	1.09	0.09	1.15
(1,564)	1:48:D:PHE:H	1:48:D:PHE:HD2	7	1.09	0.09	1.15
(1,754)	1:48:D:PHE:H	1:48:D:PHE:HD2	7	1.09	0.09	1.15
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD11	5	0.17	0.04	0.16
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD12	5	0.17	0.04	0.16
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD13	5	0.17	0.04	0.16
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD11	5	0.17	0.04	0.16
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD12	5	0.17	0.04	0.16
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD13	5	0.17	0.04	0.16
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD11	5	0.17	0.04	0.16
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD12	5	0.17	0.04	0.16
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD13	5	0.17	0.04	0.16
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	5	0.17	0.04	0.16
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	5	0.17	0.04	0.16
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	5	0.17	0.04	0.16
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	5	0.17	0.04	0.16
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	5	0.17	0.04	0.16
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	5	0.17	0.04	0.16
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	5	0.17	0.04	0.16
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	5	0.17	0.04	0.16
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	5	0.17	0.04	0.16
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	5	0.17	0.04	0.16
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	5	0.17	0.04	0.16
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	5	0.17	0.04	0.16
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	5	0.17	0.04	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	5	0.17	0.04	0.16
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	5	0.17	0.04	0.16
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	5	0.17	0.04	0.16
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	5	0.17	0.04	0.16
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	5	0.17	0.04	0.16
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	5	0.17	0.04	0.16
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	5	0.17	0.04	0.16
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	5	0.17	0.04	0.16
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	5	0.17	0.04	0.16
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	5	0.17	0.04	0.16
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	5	0.17	0.04	0.16
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	5	0.17	0.04	0.16
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	5	0.17	0.04	0.16
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	5	0.17	0.04	0.16
(1,289)	1:37:D:HIS:HB2	1:38:D:LEU:HD21	4	0.24	0.06	0.22
(1,289)	1:37:D:HIS:HB2	1:38:D:LEU:HD22	4	0.24	0.06	0.22
(1,289)	1:37:D:HIS:HB2	1:38:D:LEU:HD23	4	0.24	0.06	0.22
(1,289)	1:37:D:HIS:HB3	1:38:D:LEU:HD21	4	0.24	0.06	0.22
(1,289)	1:37:D:HIS:HB3	1:38:D:LEU:HD22	4	0.24	0.06	0.22
(1,289)	1:37:D:HIS:HB3	1:38:D:LEU:HD23	4	0.24	0.06	0.22
(1,479)	1:37:D:HIS:HB2	1:38:D:LEU:HD21	4	0.24	0.06	0.22
(1,479)	1:37:D:HIS:HB2	1:38:D:LEU:HD22	4	0.24	0.06	0.22
(1,479)	1:37:D:HIS:HB2	1:38:D:LEU:HD23	4	0.24	0.06	0.22
(1,479)	1:37:D:HIS:HB3	1:38:D:LEU:HD21	4	0.24	0.06	0.22
(1,479)	1:37:D:HIS:HB3	1:38:D:LEU:HD22	4	0.24	0.06	0.22
(1,479)	1:37:D:HIS:HB3	1:38:D:LEU:HD23	4	0.24	0.06	0.22
(1,28)	1:29:C:ALA:HB1	1:35:D:ILE:HD11	4	0.13	0.02	0.12
(1,28)	1:29:C:ALA:HB1	1:35:D:ILE:HD12	4	0.13	0.02	0.12
(1,28)	1:29:C:ALA:HB1	1:35:D:ILE:HD13	4	0.13	0.02	0.12
(1,28)	1:29:C:ALA:HB2	1:35:D:ILE:HD11	4	0.13	0.02	0.12
(1,28)	1:29:C:ALA:HB2	1:35:D:ILE:HD12	4	0.13	0.02	0.12
(1,28)	1:29:C:ALA:HB2	1:35:D:ILE:HD13	4	0.13	0.02	0.12
(1,28)	1:29:C:ALA:HB3	1:35:D:ILE:HD11	4	0.13	0.02	0.12
(1,28)	1:29:C:ALA:HB3	1:35:D:ILE:HD12	4	0.13	0.02	0.12
(1,28)	1:29:C:ALA:HB3	1:35:D:ILE:HD13	4	0.13	0.02	0.12
(1,212)	1:29:D:ALA:HA	1:32:D:ILE:HD11	3	0.18	0.06	0.16
(1,212)	1:29:D:ALA:HA	1:32:D:ILE:HD12	3	0.18	0.06	0.16
(1,212)	1:29:D:ALA:HA	1:32:D:ILE:HD13	3	0.18	0.06	0.16
(1,402)	1:29:D:ALA:HA	1:32:D:ILE:HD11	3	0.18	0.06	0.16
(1,402)	1:29:D:ALA:HA	1:32:D:ILE:HD12	3	0.18	0.06	0.16
(1,402)	1:29:D:ALA:HA	1:32:D:ILE:HD13	3	0.18	0.06	0.16
(1,592)	1:29:D:ALA:HA	1:32:D:ILE:HD11	3	0.18	0.06	0.16

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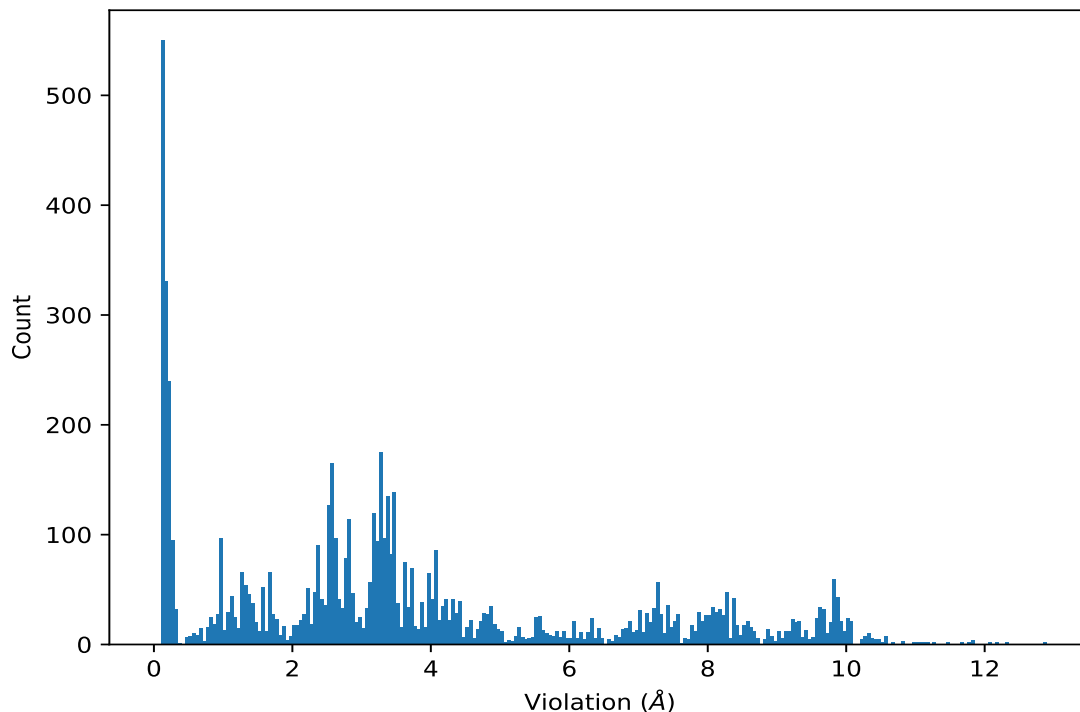
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,592)	1:29:D:ALA:HA	1:32:D:ILE:HD12	3	0.18	0.06	0.16
(1,592)	1:29:D:ALA:HA	1:32:D:ILE:HD13	3	0.18	0.06	0.16
(1,22)	1:29:C:ALA:HA	1:32:C:ILE:HD11	3	0.18	0.06	0.15
(1,22)	1:29:C:ALA:HA	1:32:C:ILE:HD12	3	0.18	0.06	0.15
(1,22)	1:29:C:ALA:HA	1:32:C:ILE:HD13	3	0.18	0.06	0.15
(2,75)	1:34:D:GLY:O	1:38:D:LEU:H	3	0.11	0.0	0.11
(2,77)	1:34:D:GLY:O	1:38:D:LEU:H	3	0.11	0.0	0.11
(2,79)	1:34:D:GLY:O	1:38:D:LEU:H	3	0.11	0.0	0.11
(2,73)	1:34:C:GLY:O	1:38:C:LEU:H	3	0.11	0.0	0.11
(1,23)	1:29:C:ALA:H	1:28:C:VAL:HB	2	0.3	0.0	0.3
(1,213)	1:29:D:ALA:H	1:28:D:VAL:HB	2	0.3	0.0	0.3
(1,403)	1:29:D:ALA:H	1:28:D:VAL:HB	2	0.3	0.0	0.3
(1,593)	1:29:D:ALA:H	1:28:D:VAL:HB	2	0.3	0.0	0.3
(1,798)	1:27:D:VAL:HG21	2:100:A:A2Y:H44	2	0.19	0.08	0.19
(1,798)	1:27:D:VAL:HG22	2:100:A:A2Y:H44	2	0.19	0.08	0.19
(1,798)	1:27:D:VAL:HG23	2:100:A:A2Y:H44	2	0.19	0.08	0.19
(1,799)	1:27:D:VAL:HG21	2:100:A:A2Y:H44	2	0.19	0.08	0.19
(1,799)	1:27:D:VAL:HG22	2:100:A:A2Y:H44	2	0.19	0.08	0.19
(1,799)	1:27:D:VAL:HG23	2:100:A:A2Y:H44	2	0.19	0.08	0.19
(1,800)	1:27:D:VAL:HG21	2:100:A:A2Y:H44	2	0.19	0.08	0.19
(1,800)	1:27:D:VAL:HG22	2:100:A:A2Y:H44	2	0.19	0.08	0.19
(1,800)	1:27:D:VAL:HG23	2:100:A:A2Y:H44	2	0.19	0.08	0.19
(1,781)	1:27:C:VAL:HG21	2:100:A:A2Y:H2	2	0.13	0.0	0.13
(1,781)	1:27:C:VAL:HG22	2:100:A:A2Y:H2	2	0.13	0.0	0.13
(1,781)	1:27:C:VAL:HG23	2:100:A:A2Y:H2	2	0.13	0.0	0.13
(1,144)	1:42:C:ILE:HG21	1:46:C:LEU:HD11	2	0.11	0.0	0.11
(1,144)	1:42:C:ILE:HG21	1:46:C:LEU:HD12	2	0.11	0.0	0.11
(1,144)	1:42:C:ILE:HG21	1:46:C:LEU:HD13	2	0.11	0.0	0.11
(1,144)	1:42:C:ILE:HG22	1:46:C:LEU:HD11	2	0.11	0.0	0.11
(1,144)	1:42:C:ILE:HG22	1:46:C:LEU:HD12	2	0.11	0.0	0.11
(1,144)	1:42:C:ILE:HG22	1:46:C:LEU:HD13	2	0.11	0.0	0.11
(1,144)	1:42:C:ILE:HG23	1:46:C:LEU:HD11	2	0.11	0.0	0.11
(1,144)	1:42:C:ILE:HG23	1:46:C:LEU:HD12	2	0.11	0.0	0.11
(1,144)	1:42:C:ILE:HG23	1:46:C:LEU:HD13	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	7	12.88
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	7	12.88
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	8	12.3
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	8	12.3
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	18	12.2
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	18	12.2
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	11	12.06
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	11	12.06
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	19	11.83
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	19	11.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	3	11.81
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	3	11.81
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	16	11.75
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	16	11.75
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	7	11.67
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	7	11.67
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	8	11.48
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	8	11.48
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	14	11.26
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	14	11.26
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	11	11.19
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	11	11.19
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	1	11.14
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	1	11.14
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	10	11.06
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	10	11.06
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG12	4	11.04
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG13	4	11.04
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	10	10.96
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	10	10.96
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG21	8	10.8
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG22	8	10.8
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG23	8	10.8
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG12	6	10.66
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG13	6	10.66
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG12	13	10.6
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG13	13	10.6
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	19	10.59
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	19	10.59
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG12	1	10.56
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG13	1	10.56
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG12	16	10.56
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG13	16	10.56
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	15	10.5
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	15	10.5
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG12	14	10.47
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG13	14	10.47
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	7	10.47
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	7	10.47
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	7	10.47
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	5	10.44
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	5	10.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	5	10.44
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	16	10.43
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	16	10.43
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	3	10.37
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	3	10.37
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	3	10.37
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	14	10.36
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	14	10.36
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	14	10.36
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG12	7	10.34
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG13	7	10.34
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	8	10.34
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	8	10.34
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	8	10.34
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG12	11	10.33
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG13	11	10.33
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	19	10.32
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	19	10.32
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	19	10.32
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	9	10.28
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	9	10.28
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	9	10.28
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	3	10.26
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	3	10.26
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	16	10.25
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	16	10.25
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	16	10.25
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	17	10.23
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	17	10.23
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	17	10.23
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG12	19	10.21
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG13	19	10.21
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	6	10.1
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	6	10.1
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	6	10.1
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	7	10.09
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	7	10.09
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	7	10.09
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	7	10.09
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	7	10.09
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	7	10.09
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	7	10.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	7	10.09
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	7	10.09
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	2	10.06
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	2	10.06
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	2	10.06
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	11	10.06
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	11	10.06
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	11	10.06
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	1	10.05
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	1	10.05
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	1	10.05
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	14	10.04
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	14	10.04
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	14	10.04
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	10	10.04
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	10	10.04
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	10	10.04
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	10	10.04
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	10	10.04
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	10	10.04
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	10	10.04
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	10	10.04
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	10	10.04
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	7	10.03
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	7	10.03
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	7	10.03
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	14	10.01
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	14	10.01
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	14	10.01
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	14	10.01
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	14	10.01
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	14	10.01
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	14	10.01
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	14	10.01
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	14	10.01
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	5	9.97
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	5	9.97
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	5	9.97
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	5	9.96
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	5	9.96
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	5	9.96
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	5	9.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	5	9.96
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	5	9.96
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	5	9.96
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	5	9.96
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	5	9.96
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	4	9.95
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	4	9.95
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	4	9.95
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	4	9.94
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	4	9.94
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	4	9.94
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	12	9.94
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	12	9.94
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	12	9.94
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	10	9.93
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	10	9.93
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	10	9.93
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	17	9.9
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	17	9.9
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	17	9.9
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	17	9.9
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	17	9.9
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	17	9.9
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	17	9.9
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	17	9.9
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	17	9.9
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	5	9.89
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	3	9.89
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	3	9.89
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	3	9.89
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	13	9.89
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	13	9.89
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	13	9.89
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	13	9.89
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	13	9.89
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	13	9.89
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	13	9.89
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	13	9.89
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	13	9.89
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	12	9.88
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	12	9.88
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	12	9.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	2	9.87
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	2	9.87
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	2	9.87
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	9	9.87
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	9	9.87
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	9	9.87
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	2	9.87
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	2	9.87
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	2	9.87
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	2	9.87
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	2	9.87
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	2	9.87
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	2	9.87
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	2	9.87
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	2	9.87
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	9	9.87
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	9	9.87
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	9	9.87
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	9	9.87
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	9	9.87
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	9	9.87
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	9	9.87
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	9	9.87
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	9	9.87
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	17	9.86
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	17	9.86
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	17	9.86
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	9	9.85
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	18	9.85
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	18	9.85
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	18	9.85
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	6	9.85
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	6	9.85
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	6	9.85
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	6	9.85
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	6	9.85
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	6	9.85
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	6	9.85
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	6	9.85
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	6	9.85
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	12	9.85
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	12	9.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	12	9.85
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	12	9.85
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	12	9.85
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	12	9.85
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	12	9.85
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	12	9.85
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	12	9.85
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG12	5	9.84
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG13	5	9.84
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	4	9.84
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	4	9.84
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	4	9.84
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	4	9.84
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	4	9.84
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	4	9.84
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	4	9.84
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	4	9.84
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	4	9.84
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	3	9.82
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	3	9.82
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	3	9.82
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	3	9.82
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	3	9.82
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	3	9.82
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	3	9.82
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	3	9.82
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	3	9.82
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	15	9.82
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	15	9.82
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	15	9.82
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	18	9.82
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	18	9.82
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	18	9.82
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	14	9.81
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	16	9.81
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	16	9.81
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	16	9.81
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	16	9.81
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	16	9.81
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	16	9.81
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	16	9.81
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	16	9.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	16	9.81
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	2	9.8
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	17	9.8
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	8	9.79
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	10	9.79
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	12	9.79
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	18	9.79
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	15	9.79
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	15	9.79
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	15	9.79
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	3	9.77
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	7	9.77
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	15	9.77
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	15	9.77
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	15	9.77
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	15	9.77
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	15	9.77
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	15	9.77
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	15	9.77
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	15	9.77
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	15	9.77
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	13	9.75
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	20	9.75
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	6	9.74
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG12	10	9.74
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG13	10	9.74
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	1	9.73
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	4	9.73
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	11	9.72
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	16	9.72
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG12	2	9.72
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG13	2	9.72
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	15	9.71
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	11	9.7
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	11	9.7
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	11	9.7
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	11	9.7
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	11	9.7
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	11	9.7
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	11	9.7
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	11	9.7
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	11	9.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	6	9.69
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	6	9.69
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	6	9.69
(1,864)	1:41:D:TRP:H	1:41:C:TRP:HH2	19	9.68
(1,630)	1:33:D:ILE:HD13	1:35:C:ILE:HG12	3	9.68
(1,630)	1:33:D:ILE:HD13	1:35:C:ILE:HG13	3	9.68
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	6	9.68
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	6	9.68
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	6	9.68
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	1	9.68
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	1	9.68
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	1	9.68
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	1	9.68
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	1	9.68
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	1	9.68
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	1	9.68
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	1	9.68
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	1	9.68
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	14	9.67
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	14	9.67
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	14	9.67
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG12	17	9.66
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG13	17	9.66
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	20	9.64
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	20	9.64
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	20	9.64
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	20	9.64
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	20	9.64
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	20	9.64
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	20	9.64
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	20	9.64
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	20	9.64
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	13	9.63
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	13	9.63
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	13	9.63
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	18	9.63
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	18	9.63
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	18	9.63
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	18	9.63
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	18	9.63
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	18	9.63
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	18	9.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	18	9.63
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	18	9.63
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG12	9	9.62
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG13	9	9.62
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	13	9.62
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	13	9.62
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	13	9.62
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	1	9.62
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	1	9.62
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	1	9.62
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	20	9.62
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	20	9.62
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	20	9.62
(1,630)	1:33:D:ILE:HD13	1:35:C:ILE:HG12	12	9.61
(1,630)	1:33:D:ILE:HD13	1:35:C:ILE:HG13	12	9.61
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	1	9.6
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	1	9.6
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	1	9.6
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG12	15	9.59
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG13	15	9.59
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	16	9.57
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	16	9.57
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	16	9.57
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG12	18	9.56
(1,630)	1:33:D:ILE:HD12	1:35:C:ILE:HG13	18	9.56
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	18	9.55
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	18	9.55
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	7	9.55
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	7	9.55
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	7	9.55
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	19	9.55
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	19	9.55
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	19	9.55
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	19	9.55
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	19	9.55
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	19	9.55
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	19	9.55
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	19	9.55
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	19	9.55
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	7	9.54
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	7	9.54
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	7	9.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	16	9.53
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	16	9.53
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	16	9.53
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	5	9.5
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	2	9.49
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	13	9.49
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	10	9.48
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	17	9.47
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	20	9.46
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	14	9.44
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	6	9.43
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	8	9.43
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	9	9.43
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	12	9.43
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	18	9.42
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	14	9.42
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	14	9.42
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	14	9.42
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	7	9.41
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	15	9.41
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	1	9.4
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	19	9.4
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	4	9.39
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	16	9.39
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	11	9.37
(1,872)	1:41:D:TRP:HA	1:41:C:TRP:HH2	3	9.36
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	11	9.35
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	11	9.35
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	11	9.35
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	4	9.34
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	4	9.34
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	4	9.34
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	10	9.33
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	10	9.33
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	10	9.33
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	8	9.33
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	8	9.33
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	8	9.33
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	5	9.32
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	5	9.32
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	5	9.32
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	11	9.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	11	9.32
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	11	9.32
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	2	9.3
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	2	9.3
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	2	9.3
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	3	9.3
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	3	9.3
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	3	9.3
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG12	20	9.28
(1,630)	1:33:D:ILE:HD11	1:35:C:ILE:HG13	20	9.28
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD11	19	9.28
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD12	19	9.28
(1,617)	1:33:D:ILE:HA	1:38:C:LEU:HD13	19	9.28
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	10	9.28
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	10	9.28
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	10	9.28
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD11	8	9.27
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD12	8	9.27
(1,597)	1:29:D:ALA:HB1	1:35:C:ILE:HD13	8	9.27
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD11	8	9.27
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD12	8	9.27
(1,597)	1:29:D:ALA:HB2	1:35:C:ILE:HD13	8	9.27
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD11	8	9.27
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD12	8	9.27
(1,597)	1:29:D:ALA:HB3	1:35:C:ILE:HD13	8	9.27
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	8	9.26
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	8	9.26
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	8	9.26
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	17	9.24
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	17	9.24
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	17	9.24
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	19	9.24
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	19	9.24
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	19	9.24
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	3	9.24
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	3	9.24
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	3	9.24
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	9	9.23
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	9	9.23
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	9	9.23
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	17	9.22
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	17	9.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	18	9.22
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	18	9.22
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	18	9.22
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	15	9.21
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	15	9.21
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	15	9.21
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	13	9.21
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	13	9.21
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	13	9.21
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	12	9.2
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	12	9.2
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	12	9.2
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	5	9.2
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	5	9.2
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	5	9.2
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	10	9.17
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	10	9.17
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	10	9.17
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	7	9.16
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	7	9.16
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	7	9.16
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	2	9.12
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	2	9.12
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	2	9.12
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	12	9.12
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	12	9.12
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	12	9.12
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	17	9.12
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	17	9.12
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	17	9.12
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	9	9.11
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	9	9.11
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	9	9.11
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	18	9.06
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	18	9.06
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	18	9.06
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	4	9.06
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	4	9.06
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	4	9.06
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	15	9.04
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	15	9.04
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	15	9.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	14	9.02
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	14	9.02
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	14	9.02
(1,629)	1:33:D:ILE:HD11	1:35:C:ILE:HA	20	9.02
(1,629)	1:33:D:ILE:HD12	1:35:C:ILE:HA	20	9.02
(1,629)	1:33:D:ILE:HD13	1:35:C:ILE:HA	20	9.02
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	4	9.02
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	4	9.02
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	4	9.02
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	6	8.97
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	6	8.97
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	6	8.97
(1,577)	1:26:D:LEU:HD21	1:28:C:VAL:HA	20	8.94
(1,577)	1:26:D:LEU:HD22	1:28:C:VAL:HA	20	8.94
(1,577)	1:26:D:LEU:HD23	1:28:C:VAL:HA	20	8.94
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	14	8.92
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	14	8.92
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	13	8.9
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	13	8.9
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	13	8.9
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	20	8.89
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	20	8.89
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	20	8.89
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	9	8.88
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	9	8.88
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	4	8.87
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	4	8.87
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	4	8.87
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	1	8.87
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	1	8.87
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	1	8.87
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	3	8.86
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	3	8.86
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	3	8.86
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	1	8.84
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	1	8.84
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	16	8.84
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	16	8.84
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	16	8.84
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	5	8.74
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	5	8.74
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	5	8.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	9	8.71
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	9	8.71
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	9	8.71
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	8	8.7
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	8	8.7
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	8	8.7
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	10	8.67
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	10	8.67
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	10	8.67
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	7	8.65
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	7	8.65
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	7	8.65
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	7	8.65
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	7	8.65
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	7	8.65
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	2	8.64
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	2	8.64
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	2	8.64
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	17	8.64
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	17	8.64
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	17	8.64
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	12	8.63
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	12	8.63
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	12	8.63
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	2	8.61
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	2	8.61
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	5	8.61
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	5	8.61
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	18	8.6
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	18	8.6
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	18	8.6
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	1	8.57
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	1	8.57
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	1	8.57
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	6	8.57
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	6	8.57
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	6	8.57
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	16	8.56
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	16	8.56
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	16	8.56
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	19	8.56
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	19	8.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	19	8.56
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	8	8.55
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	8	8.55
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	8	8.55
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	11	8.55
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	11	8.55
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	11	8.55
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	14	8.55
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	14	8.55
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	14	8.55
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	13	8.54
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	13	8.54
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	13	8.54
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	15	8.54
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	15	8.54
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	15	8.54
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	14	8.54
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	14	8.54
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	14	8.54
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	14	8.54
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	14	8.54
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	14	8.54
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	11	8.53
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	11	8.53
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	11	8.53
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	7	8.51
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	7	8.51
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	7	8.51
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	4	8.49
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	4	8.49
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	4	8.49
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	4	8.49
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	4	8.49
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	4	8.49
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	20	8.46
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	20	8.46
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	20	8.46
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD21	19	8.45
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD22	19	8.45
(1,661)	1:37:D:HIS:HA	1:38:C:LEU:HD23	19	8.45
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	10	8.41
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	10	8.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	10	8.41
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	10	8.41
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	10	8.41
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	10	8.41
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	5	8.4
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	5	8.4
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	5	8.4
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	3	8.4
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	3	8.4
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	3	8.4
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	3	8.4
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	3	8.4
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	3	8.4
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	3	8.39
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	3	8.39
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	3	8.39
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	5	8.38
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	5	8.38
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	5	8.38
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	5	8.38
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	5	8.38
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	5	8.38
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	4	8.37
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	4	8.37
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	4	8.37
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	9	8.36
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	9	8.36
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	9	8.36
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	9	8.36
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	9	8.36
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	9	8.36
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	12	8.36
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	12	8.36
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	12	8.36
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	12	8.36
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	12	8.36
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	12	8.36
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	18	8.36
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	18	8.36
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	18	8.36
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	18	8.36
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	18	8.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	18	8.36
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	2	8.35
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	2	8.35
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	2	8.35
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	2	8.35
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	2	8.35
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	2	8.35
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	17	8.35
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	17	8.35
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	17	8.35
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	17	8.35
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	17	8.35
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	17	8.35
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	9	8.34
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	9	8.34
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	9	8.34
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	10	8.3
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	10	8.3
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	10	8.3
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	15	8.28
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	15	8.28
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	15	8.28
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	15	8.28
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	15	8.28
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	15	8.28
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	12	8.27
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	12	8.27
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	12	8.27
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	10	8.27
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	10	8.27
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	10	8.27
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	10	8.27
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	10	8.27
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	10	8.27
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	2	8.26
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	2	8.26
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	2	8.26
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	5	8.26
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	5	8.26
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	5	8.26
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	5	8.26
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	5	8.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	5	8.26
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	7	8.26
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	7	8.26
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	7	8.26
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	14	8.26
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	14	8.26
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	14	8.26
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	2	8.25
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	2	8.25
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	2	8.25
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	2	8.25
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	2	8.25
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	2	8.25
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	9	8.25
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	9	8.25
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	9	8.25
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	9	8.25
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	9	8.25
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	9	8.25
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	17	8.25
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	17	8.25
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	17	8.25
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	17	8.25
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	17	8.25
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	17	8.25
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	18	8.24
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	18	8.24
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	18	8.24
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	18	8.24
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	18	8.24
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	18	8.24
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	18	8.24
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	18	8.24
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	18	8.24
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	17	8.23
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	17	8.23
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	17	8.23
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	12	8.23
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	12	8.23
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	12	8.23
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	12	8.23
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	12	8.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	12	8.23
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	1	8.22
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	1	8.22
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	1	8.22
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	20	8.21
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	20	8.21
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	20	8.21
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	20	8.21
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	20	8.21
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	20	8.21
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	11	8.2
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	11	8.2
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	11	8.2
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	15	8.2
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	15	8.2
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	15	8.2
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	15	8.2
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	15	8.2
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	15	8.2
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	20	8.18
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	20	8.18
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	6	8.18
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	6	8.18
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	6	8.18
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	15	8.16
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	15	8.16
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	15	8.16
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	6	8.16
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	6	8.16
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	6	8.16
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	6	8.16
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	6	8.16
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	6	8.16
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	16	8.15
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	16	8.15
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	16	8.15
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	13	8.15
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	13	8.15
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	13	8.15
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	13	8.15
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	13	8.15
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	13	8.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	4	8.14
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	4	8.14
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	13	8.14
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	13	8.14
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	13	8.14
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	5	8.13
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	13	8.13
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	13	8.13
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	13	8.13
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	13	8.13
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	13	8.13
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	13	8.13
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	6	8.12
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	6	8.12
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	6	8.12
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	6	8.12
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	6	8.12
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	6	8.12
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	16	8.11
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	16	8.11
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	16	8.11
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	16	8.11
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	16	8.11
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	16	8.11
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	3	8.11
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	3	8.11
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	3	8.11
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	3	8.11
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	3	8.11
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	3	8.11
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	2	8.09
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	9	8.09
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	10	8.09
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	20	8.09
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	20	8.09
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	20	8.09
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	1	8.09
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	1	8.09
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	1	8.09
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	1	8.09
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	1	8.09
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	1	8.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	17	8.08
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	1	8.08
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	1	8.08
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	1	8.08
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	1	8.08
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	1	8.08
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	1	8.08
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	8	8.07
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	12	8.07
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD11	19	8.07
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD12	19	8.07
(1,660)	1:37:D:HIS:HA	1:38:C:LEU:HD13	19	8.07
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	16	8.07
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	16	8.07
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	16	8.07
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	16	8.07
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	16	8.07
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	16	8.07
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	13	8.06
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	7	8.05
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	14	8.05
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	18	8.05
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	6	8.04
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	20	8.03
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	11	8.02
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	16	8.01
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	8	8.01
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	8	8.01
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	8	8.01
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	8	8.01
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	8	8.01
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	8	8.01
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	20	8.01
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	20	8.01
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	20	8.01
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	20	8.01
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	20	8.01
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	20	8.01
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	5	8.01
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	5	8.01
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	5	8.01
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	1	8.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	15	8.0
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	11	8.0
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	11	8.0
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	11	8.0
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	11	8.0
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	11	8.0
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	11	8.0
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	3	7.99
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	19	7.99
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD21	8	7.98
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD22	8	7.98
(1,618)	1:33:D:ILE:HA	1:38:C:LEU:HD23	8	7.98
(1,860)	1:41:D:TRP:H	1:41:C:TRP:HZ2	4	7.97
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	11	7.96
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	11	7.96
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	11	7.96
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	11	7.96
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	11	7.96
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	11	7.96
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD21	19	7.95
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD22	19	7.95
(1,658)	1:36:D:LEU:HB2	1:38:C:LEU:HD23	19	7.95
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD21	19	7.95
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD22	19	7.95
(1,658)	1:36:D:LEU:HB3	1:38:C:LEU:HD23	19	7.95
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	14	7.95
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	14	7.95
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	14	7.95
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	14	7.95
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	14	7.95
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	14	7.95
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	10	7.95
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	10	7.95
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	10	7.95
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	2	7.94
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	2	7.94
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	2	7.94
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	10	7.94
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	10	7.94
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	10	7.94
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	7	7.93
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	7	7.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	7	7.93
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	7	7.93
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	7	7.93
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	7	7.93
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	5	7.92
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	5	7.92
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	5	7.92
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	9	7.91
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	9	7.91
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	9	7.91
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	14	7.91
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	14	7.91
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	14	7.91
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	13	7.89
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	13	7.89
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	3	7.88
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	3	7.88
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	3	7.88
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	18	7.88
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	18	7.88
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	18	7.88
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	3	7.88
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	3	7.88
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	3	7.88
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	6	7.87
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	6	7.87
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	15	7.87
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	15	7.87
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	7	7.87
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	7	7.87
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	7	7.87
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	12	7.87
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	12	7.87
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	12	7.87
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	17	7.87
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	17	7.87
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	17	7.87
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	17	7.87
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	17	7.87
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	17	7.87
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	2	7.86
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	2	7.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	2	7.86
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	9	7.85
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	9	7.85
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	9	7.85
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	12	7.85
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	12	7.85
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	12	7.85
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	15	7.83
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	15	7.83
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	15	7.83
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	18	7.81
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	18	7.81
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	18	7.81
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	7	7.8
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	7	7.8
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	7	7.8
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	15	7.78
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	15	7.78
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	15	7.78
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	19	7.77
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	19	7.77
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	19	7.77
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	19	7.77
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	19	7.77
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	19	7.77
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	14	7.75
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	14	7.75
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	14	7.75
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	6	7.75
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	6	7.75
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	6	7.75
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	20	7.73
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	20	7.73
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	20	7.73
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	2	7.72
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	2	7.72
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	13	7.69
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	13	7.69
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	13	7.69
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	1	7.68
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	1	7.68
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	1	7.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	14	7.62
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	5	7.59
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	14	7.59
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	14	7.59
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	14	7.59
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	14	7.59
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	14	7.59
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	14	7.59
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	4	7.59
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	4	7.59
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	4	7.59
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	4	7.59
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	4	7.59
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	4	7.59
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	6	7.59
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	6	7.59
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	6	7.59
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	16	7.57
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	16	7.57
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	16	7.57
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	7	7.56
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	7	7.56
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	7	7.56
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	7	7.56
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	7	7.56
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	7	7.56
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	13	7.56
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	13	7.56
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	13	7.56
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	5	7.54
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	14	7.54
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	9	7.53
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	4	7.53
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	4	7.53
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	4	7.53
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	20	7.53
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	20	7.53
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	20	7.53
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	3	7.52
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	13	7.52
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	3	7.52
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	4	7.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	9	7.5
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	2	7.5
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	8	7.5
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	8	7.5
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	8	7.5
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	8	7.5
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	8	7.5
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	8	7.5
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	10	7.49
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	16	7.49
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	16	7.49
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	16	7.49
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	5	7.48
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	17	7.47
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	20	7.47
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH11	12	7.47
(1,724)	1:44:D:ASP:H	1:45:C:ARG:HH12	12	7.47
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	3	7.47
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	3	7.47
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	3	7.47
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	14	7.46
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	1	7.45
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	1	7.45
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	1	7.45
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	8	7.44
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	6	7.44
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	5	7.44
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	8	7.44
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	11	7.44
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	11	7.44
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	11	7.44
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	10	7.43
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	8	7.43
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	12	7.43
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	15	7.43
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	7	7.43
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	9	7.42
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	14	7.42
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	18	7.42
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	19	7.42
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	1	7.42
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	4	7.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	4	7.42
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	4	7.42
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	4	7.42
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	4	7.42
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	4	7.42
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	2	7.41
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	4	7.41
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	7	7.41
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	3	7.41
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	5	7.41
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	5	7.41
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	5	7.41
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	5	7.41
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	5	7.41
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	5	7.41
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	1	7.4
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	16	7.4
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	18	7.4
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	12	7.39
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	17	7.39
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	18	7.39
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	10	7.39
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	11	7.38
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	4	7.38
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	4	7.37
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	11	7.37
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	12	7.37
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	9	7.36
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	1	7.35
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	2	7.35
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	5	7.35
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	5	7.35
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	5	7.35
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	3	7.35
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	3	7.35
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	3	7.35
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	3	7.35
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	3	7.35
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	3	7.35
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	11	7.34
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	16	7.34
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	17	7.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	6	7.33
(1,868)	1:41:D:TRP:HA	1:41:C:TRP:HZ2	3	7.33
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	16	7.33
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	8	7.33
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	8	7.33
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	8	7.33
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	13	7.32
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	7	7.31
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	10	7.31
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	10	7.31
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	10	7.31
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	10	7.31
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	10	7.31
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	10	7.31
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	15	7.29
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	8	7.29
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	8	7.29
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	8	7.29
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	6	7.28
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	10	7.28
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	10	7.28
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	10	7.28
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	2	7.28
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	2	7.28
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	2	7.28
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	2	7.28
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	2	7.28
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	2	7.28
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	12	7.28
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	12	7.28
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	12	7.28
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	12	7.28
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	12	7.28
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	12	7.28
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	18	7.28
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	18	7.28
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	18	7.28
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	18	7.28
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	18	7.28
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	18	7.28
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	9	7.27
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	9	7.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	9	7.27
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	9	7.27
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	9	7.27
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	9	7.27
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	9	7.27
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	9	7.27
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	9	7.27
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	19	7.27
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	19	7.27
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	19	7.27
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	15	7.26
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	2	7.26
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	2	7.26
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	2	7.26
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	14	7.26
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	14	7.26
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	14	7.26
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	17	7.26
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	17	7.26
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	17	7.26
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	17	7.26
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	17	7.26
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	17	7.26
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	19	7.25
(1,893)	1:37:D:HIS:HE1	1:41:C:TRP:CZ3	20	7.25
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	13	7.25
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	17	7.25
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	17	7.25
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	17	7.25
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	1	7.24
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	19	7.24
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	7	7.23
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	18	7.23
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	12	7.23
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	12	7.23
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	12	7.23
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	7	7.23
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	7	7.23
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	7	7.23
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	18	7.22
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	18	7.22
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	18	7.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	6	7.22
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	6	7.22
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	6	7.22
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	6	7.22
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	6	7.22
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	6	7.22
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	15	7.22
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	15	7.22
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	15	7.22
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	15	7.22
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	15	7.22
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	15	7.22
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	8	7.21
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	1	7.21
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	1	7.21
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	1	7.21
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	1	7.21
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	1	7.21
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	1	7.21
(1,836)	1:37:D:HIS:HD2	1:41:C:TRP:HH2	20	7.2
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	6	7.19
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	6	7.19
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	6	7.19
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	5	7.18
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	15	7.18
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	15	7.18
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	15	7.18
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	14	7.17
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	10	7.17
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	12	7.16
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	1	7.16
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	1	7.16
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	1	7.16
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	8	7.16
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	8	7.16
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	8	7.16
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	9	7.15
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	11	7.15
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	11	7.15
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	11	7.15
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	2	7.14
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	9	7.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	9	7.14
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	3	7.13
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	11	7.13
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	17	7.13
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	13	7.13
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	13	7.13
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	13	7.13
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	16	7.13
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	16	7.13
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	16	7.13
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	13	7.13
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	13	7.13
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	13	7.13
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	13	7.13
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	13	7.13
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	13	7.13
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	8	7.12
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	16	7.11
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	20	7.11
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	20	7.11
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	20	7.11
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	20	7.11
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	20	7.11
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	20	7.11
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD11	19	7.11
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD12	19	7.11
(1,628)	1:33:D:ILE:HB	1:38:C:LEU:HD13	19	7.11
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	10	7.1
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	16	7.1
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	16	7.1
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	16	7.1
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	16	7.1
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	16	7.1
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	16	7.1
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	2	7.07
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	12	7.06
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	17	7.06
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	6	7.06
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	15	7.05
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	20	7.05
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	20	7.05
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	20	7.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	4	7.04
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	11	7.04
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	11	7.04
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	11	7.04
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	4	7.04
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	4	7.04
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	4	7.04
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	11	7.03
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	18	7.03
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	14	7.03
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	13	7.03
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	20	7.03
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	11	7.03
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	11	7.03
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	11	7.03
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	11	7.03
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	11	7.03
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	11	7.03
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	16	7.02
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	5	7.02
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	4	7.02
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	4	7.02
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	4	7.02
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	3	7.01
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	1	7.0
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	6	7.0
(1,840)	1:37:D:HIS:HD2	1:41:C:TRP:HZ3	19	7.0
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	13	6.99
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	5	6.99
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	5	6.99
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	5	6.99
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	9	6.98
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD21	19	6.98
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD22	19	6.98
(1,664)	1:37:D:HIS:H	1:38:C:LEU:HD23	19	6.98
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	3	6.98
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	3	6.98
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	3	6.98
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	7	6.96
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	15	6.95
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD11	19	6.94
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD12	19	6.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,657)	1:36:D:LEU:HB2	1:38:C:LEU:HD13	19	6.94
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD11	19	6.94
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD12	19	6.94
(1,657)	1:36:D:LEU:HB3	1:38:C:LEU:HD13	19	6.94
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	19	6.93
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	4	6.91
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	8	6.9
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	17	6.9
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	17	6.9
(1,894)	1:37:D:HIS:HE1	1:41:C:TRP:CH2	20	6.89
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	10	6.89
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	10	6.89
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	10	6.89
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	10	6.89
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	2	6.88
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	18	6.88
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	9	6.88
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	9	6.88
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	9	6.88
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	17	6.87
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	12	6.86
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	2	6.86
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	2	6.86
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	2	6.86
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB2	8	6.86
(1,634)	1:33:D:ILE:HG21	1:38:C:LEU:HB3	8	6.86
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB2	8	6.86
(1,634)	1:33:D:ILE:HG22	1:38:C:LEU:HB3	8	6.86
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB2	8	6.86
(1,634)	1:33:D:ILE:HG23	1:38:C:LEU:HB3	8	6.86
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	12	6.85
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	12	6.85
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	12	6.85
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	1	6.84
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	18	6.83
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	18	6.83
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	18	6.83
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	17	6.82
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	17	6.82
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	17	6.82
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	6	6.81
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	11	6.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,631)	1:33:D:ILE:HG21	1:35:C:ILE:HA	8	6.81
(1,631)	1:33:D:ILE:HG22	1:35:C:ILE:HA	8	6.81
(1,631)	1:33:D:ILE:HG23	1:35:C:ILE:HA	8	6.81
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	13	6.8
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	16	6.8
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	7	6.79
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	1	6.79
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	1	6.79
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	1	6.79
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	15	6.78
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	6	6.78
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	6	6.78
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	6	6.78
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	15	6.77
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	15	6.77
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	15	6.77
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	20	6.76
(1,892)	1:37:D:HIS:HE1	1:41:C:TRP:CE3	19	6.73
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	13	6.7
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	13	6.7
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	13	6.7
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	16	6.7
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	16	6.7
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	16	6.7
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	7	6.68
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	7	6.68
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	7	6.68
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	11	6.67
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	11	6.67
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	11	6.67
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	14	6.65
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	14	6.65
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	14	6.65
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	20	6.64
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	20	6.64
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	20	6.64
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	5	6.57
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	5	6.57
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD11	19	6.56
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD12	19	6.56
(1,663)	1:37:D:HIS:H	1:38:C:LEU:HD13	19	6.56
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	10	6.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	10	6.48
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	10	6.48
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	5	6.47
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	5	6.47
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	5	6.47
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	12	6.43
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	12	6.43
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	12	6.43
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	2	6.42
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	2	6.42
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	2	6.42
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	9	6.42
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	9	6.42
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	9	6.42
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	17	6.42
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	17	6.42
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	17	6.42
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	18	6.4
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	18	6.4
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	18	6.4
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	5	6.38
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	5	6.38
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	5	6.38
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	3	6.36
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	3	6.36
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	3	6.36
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	7	6.35
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	7	6.35
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	7	6.35
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	9	6.35
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	9	6.35
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	9	6.35
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	10	6.35
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	10	6.35
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	10	6.35
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	2	6.34
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	2	6.34
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	2	6.34
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	3	6.34
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	3	6.34
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	3	6.34
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	3	6.34
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	3	6.34
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	15	6.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	15	6.33
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	15	6.33
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	17	6.32
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	17	6.32
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	17	6.32
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	14	6.31
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	14	6.31
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	14	6.31
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	12	6.3
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	12	6.3
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	12	6.3
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	18	6.3
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	18	6.3
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	18	6.3
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	5	6.25
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	14	6.25
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	15	6.25
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	15	6.25
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	15	6.25
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	9	6.23
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	20	6.22
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	20	6.22
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	20	6.22
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	8	6.21
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	10	6.19
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	6	6.19
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	6	6.19
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	6	6.19
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	3	6.18
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	2	6.16
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	13	6.16
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	13	6.16
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	13	6.16
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	12	6.15
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	17	6.15
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	11	6.14
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	20	6.14
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	20	6.14
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	20	6.14
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	4	6.11
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	16	6.11
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	6	6.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	18	6.1
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	1	6.1
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	1	6.1
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	1	6.1
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	13	6.09
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	16	6.09
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	16	6.09
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	16	6.09
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	6	6.09
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	6	6.09
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	6	6.09
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	1	6.08
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	14	6.08
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	13	6.08
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	13	6.08
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	13	6.08
(1,809)	1:35:C:ILE:HD12	2:100:A:A2Y:H683	6	6.07
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	7	6.06
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	15	6.06
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	5	6.06
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	3	6.05
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	19	6.04
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	9	6.03
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	1	6.01
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	1	6.01
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	1	6.01
(1,895)	1:37:D:HIS:HE1	1:41:C:TRP:CZ2	20	5.98
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	4	5.96
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	8	5.96
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	16	5.96
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	16	5.96
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	16	5.96
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	10	5.94
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	2	5.93
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	18	5.93
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	11	5.93
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	11	5.93
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	11	5.93
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	12	5.92
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	17	5.92
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	1	5.9
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	4	5.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	4	5.9
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	4	5.9
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	11	5.89
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	4	5.88
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	4	5.88
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	6	5.87
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	13	5.87
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	16	5.87
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	7	5.86
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	15	5.85
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	20	5.83
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	6	5.83
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	6	5.83
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	3	5.82
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	3	5.82
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	11	5.82
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	11	5.82
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	11	5.82
(1,891)	1:37:D:HIS:HE1	1:41:C:TRP:CD2	19	5.81
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	3	5.81
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	14	5.81
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	14	5.8
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	14	5.8
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	4	5.78
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	4	5.78
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	5	5.78
(1,809)	1:35:C:ILE:HD13	2:100:A:A2Y:H663	16	5.76
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	12	5.75
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	12	5.75
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	19	5.74
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	19	5.74
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	19	5.74
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	5	5.73
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	9	5.73
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	5	5.73
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	9	5.73
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	9	5.73
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	4	5.7
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	1	5.68
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	1	5.68
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	20	5.68
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	20	5.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	5	5.66
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	14	5.66
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	18	5.66
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	18	5.66
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	8	5.66
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	18	5.65
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	11	5.64
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	11	5.64
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	2	5.64
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	10	5.64
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	9	5.63
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	17	5.63
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	12	5.62
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	12	5.62
(1,809)	1:35:C:ILE:HD13	2:100:A:A2Y:H683	18	5.62
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	12	5.62
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	20	5.61
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	20	5.61
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	1	5.61
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	3	5.6
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	8	5.6
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	7	5.6
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	16	5.6
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	7	5.6
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	16	5.6
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	19	5.6
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	19	5.6
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	19	5.6
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	17	5.59
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	19	5.59
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	17	5.59
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	19	5.59
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	10	5.58
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	2	5.58
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	2	5.58
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	6	5.57
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	10	5.57
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	6	5.57
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	10	5.57
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	6	5.57
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	15	5.56
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	15	5.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	7	5.56
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	13	5.56
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	16	5.56
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	2	5.55
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	20	5.55
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	4	5.54
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	11	5.54
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	12	5.54
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	17	5.54
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	8	5.54
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	8	5.54
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	11	5.54
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	15	5.54
(1,888)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	13	5.53
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	3	5.53
(1,882)	1:37:D:HIS:HE1	1:41:D:TRP:CH2	13	5.53
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	3	5.53
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	18	5.52
(1,812)	1:35:D:ILE:HD13	2:100:A:A2Y:H683	11	5.51
(1,812)	1:35:D:ILE:HD11	2:100:A:A2Y:H683	15	5.51
(1,811)	1:35:D:ILE:HD13	2:100:A:A2Y:H683	11	5.51
(1,811)	1:35:D:ILE:HD11	2:100:A:A2Y:H683	15	5.51
(1,810)	1:35:D:ILE:HD13	2:100:A:A2Y:H683	11	5.51
(1,810)	1:35:D:ILE:HD11	2:100:A:A2Y:H683	15	5.51
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	1	5.5
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	6	5.5
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	13	5.5
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	16	5.5
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	14	5.49
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	14	5.49
(1,673)	1:37:D:HIS:HE1	1:41:C:TRP:HE3	19	5.49
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	7	5.48
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	4	5.48
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	4	5.48
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	15	5.47
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	19	5.44
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	5	5.43
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	5	5.43
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	9	5.42
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	9	5.42
(1,896)	1:37:D:HIS:HE1	1:41:C:TRP:CE2	20	5.41
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	4	5.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	4	5.38
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	4	5.38
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	1	5.37
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	1	5.37
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	18	5.35
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	18	5.35
(1,812)	1:35:D:ILE:HD11	2:100:A:A2Y:H683	10	5.35
(1,811)	1:35:D:ILE:HD11	2:100:A:A2Y:H683	10	5.35
(1,810)	1:35:D:ILE:HD11	2:100:A:A2Y:H683	10	5.35
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH21	13	5.35
(1,725)	1:44:D:ASP:H	1:45:C:ARG:HH22	13	5.35
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	11	5.3
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	11	5.3
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	12	5.29
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	20	5.29
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	12	5.29
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	20	5.29
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	7	5.27
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	7	5.27
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	16	5.26
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	16	5.26
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	2	5.25
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	17	5.25
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	19	5.25
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	2	5.25
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	17	5.25
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	19	5.25
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	10	5.24
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	10	5.24
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	6	5.23
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	15	5.23
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	6	5.23
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	15	5.23
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	13	5.2
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	13	5.2
(1,887)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	8	5.19
(1,881)	1:37:D:HIS:HE1	1:41:D:TRP:CZ3	8	5.19
(1,809)	1:35:C:ILE:HD13	2:100:A:A2Y:H663	19	5.18
(1,809)	1:35:C:ILE:HD11	2:100:A:A2Y:H663	10	5.12
(1,632)	1:33:D:ILE:HG21	1:35:C:ILE:H	8	5.12
(1,632)	1:33:D:ILE:HG22	1:35:C:ILE:H	8	5.12
(1,632)	1:33:D:ILE:HG23	1:35:C:ILE:H	8	5.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	5	5.06
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	9	5.06
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	14	5.05
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	14	5.05
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	7	5.04
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	7	5.04
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	7	5.04
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	7	5.04
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	7	5.04
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	7	5.04
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	3	5.03
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	3	5.03
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	4	5.0
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	4	5.0
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	2	4.99
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	10	4.99
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	11	4.98
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	13	4.98
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	17	4.97
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	12	4.96
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	5	4.95
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	9	4.95
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	5	4.95
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	9	4.95
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	1	4.95
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	7	4.95
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	8	4.95
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	18	4.95
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	14	4.94
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	20	4.94
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	6	4.93
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	14	4.93
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	14	4.93
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	14	4.93
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	14	4.93
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	14	4.93
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	14	4.93
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	1	4.92
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	1	4.92
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	4	4.92
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	16	4.92
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	19	4.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	18	4.91
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	18	4.91
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	11	4.9
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	11	4.9
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	15	4.9
(1,856)	1:41:D:TRP:HD1	1:41:C:TRP:HZ2	3	4.89
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	12	4.88
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	12	4.88
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	14	4.88
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	14	4.88
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	14	4.88
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	14	4.88
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	14	4.88
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	14	4.88
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	14	4.88
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	14	4.88
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	14	4.88
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	14	4.88
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	14	4.88
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	14	4.88
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	14	4.88
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	14	4.88
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	14	4.88
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	14	4.88
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	14	4.88
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	14	4.88
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	14	4.87
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	7	4.86
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	16	4.86
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	19	4.86
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	20	4.86
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	7	4.86
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	16	4.86
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	19	4.86
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	20	4.86
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	3	4.86
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	8	4.86
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	8	4.86
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	8	4.86
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	8	4.86
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	2	4.85
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	17	4.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	2	4.85
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	17	4.85
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	6	4.84
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	10	4.84
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	15	4.84
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	6	4.84
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	10	4.84
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	15	4.84
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	5	4.84
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	8	4.84
(1,812)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	1	4.84
(1,811)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	1	4.84
(1,810)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	1	4.84
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	8	4.82
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	8	4.82
(1,889)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	13	4.81
(1,883)	1:37:D:HIS:HE1	1:41:D:TRP:CZ2	13	4.81
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	9	4.81
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	16	4.81
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	16	4.81
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	19	4.81
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	19	4.81
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	16	4.81
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	16	4.81
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	19	4.81
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	19	4.81
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	11	4.8
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	11	4.8
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	11	4.8
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	11	4.8
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	7	4.79
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	4	4.78
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	7	4.77
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	7	4.77
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	7	4.77
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	7	4.77
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	1	4.75
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	7	4.75
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	7	4.75
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	7	4.75
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	7	4.75
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	7	4.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	7	4.75
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	7	4.75
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	7	4.75
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	7	4.75
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	7	4.75
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	7	4.75
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	7	4.75
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	7	4.75
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	7	4.75
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	7	4.75
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	7	4.75
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	7	4.75
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	7	4.75
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	2	4.73
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	10	4.73
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	12	4.72
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	17	4.72
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	18	4.72
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	4	4.72
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	4	4.72
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	4	4.72
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	4	4.72
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	4	4.72
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	4	4.72
(1,633)	1:33:D:ILE:HG21	1:38:C:LEU:HG	8	4.71
(1,633)	1:33:D:ILE:HG22	1:38:C:LEU:HG	8	4.71
(1,633)	1:33:D:ILE:HG23	1:38:C:LEU:HG	8	4.71
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	11	4.7
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	3	4.7
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	3	4.7
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	3	4.7
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	3	4.7
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	3	4.7
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	3	4.7
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	20	4.69
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	13	4.68
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	16	4.68
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	19	4.67
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	8	4.67
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	8	4.67
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	8	4.67
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	8	4.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	8	4.67
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	8	4.67
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	6	4.66
(1,828)	1:37:D:HIS:HE1	1:37:C:HIS:HD2	15	4.66
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	7	4.65
(1,809)	1:35:C:ILE:HD13	2:100:A:A2Y:H663	1	4.65
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	14	4.63
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	14	4.63
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	14	4.63
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	14	4.63
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	14	4.63
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	14	4.63
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	18	4.6
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	18	4.6
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	18	4.6
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	18	4.6
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	7	4.59
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	7	4.59
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	7	4.59
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	7	4.59
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	7	4.59
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	7	4.59
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	4	4.56
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	4	4.56
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	4	4.56
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	4	4.56
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	4	4.56
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	4	4.56
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	5	4.55
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	5	4.55
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	5	4.55
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	5	4.55
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	5	4.55
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	5	4.55
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	2	4.54
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	2	4.54
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	2	4.54
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	2	4.54
(1,812)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	19	4.52
(1,811)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	19	4.52
(1,810)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	19	4.52
(1,812)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	16	4.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,811)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	16	4.51
(1,810)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	16	4.51
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	9	4.5
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	9	4.5
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	9	4.5
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	9	4.5
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	9	4.5
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	9	4.5
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	19	4.46
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	10	4.46
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	10	4.46
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	10	4.46
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	10	4.46
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	10	4.46
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	10	4.46
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	2	4.44
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	2	4.44
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	2	4.44
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	2	4.44
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	2	4.44
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	2	4.44
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	17	4.44
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	17	4.44
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	17	4.44
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	17	4.44
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	17	4.44
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	17	4.44
(1,812)	1:35:D:ILE:HD13	2:100:A:A2Y:H663	12	4.43
(1,811)	1:35:D:ILE:HD13	2:100:A:A2Y:H663	12	4.43
(1,810)	1:35:D:ILE:HD13	2:100:A:A2Y:H663	12	4.43
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	12	4.43
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	12	4.43
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	12	4.43
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	12	4.43
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	12	4.43
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	12	4.43
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	3	4.43
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	3	4.43
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	3	4.43
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	3	4.43
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	3	4.43
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	3	4.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	4	4.42
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	4	4.42
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	4	4.42
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	4	4.42
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	4	4.42
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	4	4.42
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	5	4.42
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	5	4.42
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	5	4.42
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	5	4.42
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	5	4.42
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	5	4.42
(1,809)	1:35:C:ILE:HD11	2:100:A:A2Y:H683	20	4.41
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	18	4.39
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	18	4.39
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	18	4.39
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	18	4.39
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	18	4.39
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	18	4.39
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	3	4.38
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	3	4.38
(1,812)	1:35:D:ILE:HD12	2:100:A:A2Y:H663	13	4.37
(1,811)	1:35:D:ILE:HD12	2:100:A:A2Y:H663	13	4.37
(1,810)	1:35:D:ILE:HD12	2:100:A:A2Y:H663	13	4.37
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	6	4.37
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	6	4.37
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	6	4.37
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	6	4.37
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	6	4.37
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	6	4.37
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	1	4.36
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	1	4.36
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	1	4.36
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	1	4.36
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	1	4.36
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	1	4.36
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	8	4.36
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	8	4.36
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	8	4.36
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	8	4.36
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	8	4.36
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	8	4.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	15	4.35
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	15	4.35
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	15	4.35
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	15	4.35
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	15	4.35
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	15	4.35
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	9	4.35
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	9	4.35
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	9	4.35
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	9	4.35
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	9	4.35
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	9	4.35
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	14	4.34
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	14	4.34
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	16	4.34
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	16	4.34
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	16	4.34
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	16	4.34
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	16	4.34
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	16	4.34
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	4	4.33
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	4	4.33
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	1	4.32
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	13	4.32
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	13	4.32
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	13	4.32
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	13	4.32
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	13	4.32
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	13	4.32
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	11	4.3
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	11	4.3
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	11	4.3
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	11	4.3
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	11	4.3
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	11	4.3
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	10	4.3
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	10	4.3
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	10	4.3
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	10	4.3
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	10	4.3
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	10	4.3
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	5	4.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	5	4.28
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	12	4.28
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	12	4.28
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	12	4.28
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	12	4.28
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	12	4.28
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	12	4.28
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	4	4.28
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	4	4.28
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	4	4.28
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	4	4.28
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	4	4.28
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	4	4.28
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	9	4.27
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	9	4.27
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	2	4.27
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	2	4.27
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	2	4.27
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	2	4.27
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	2	4.27
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	2	4.27
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	20	4.24
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	20	4.24
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	20	4.24
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	20	4.24
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	20	4.24
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	20	4.24
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	17	4.24
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	17	4.24
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	17	4.24
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	17	4.24
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	17	4.24
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	17	4.24
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	18	4.24
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	18	4.24
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	18	4.24
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	18	4.24
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	18	4.24
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	18	4.24
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	13	4.23
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	13	4.23
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	13	4.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,812)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	6	4.23
(1,811)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	6	4.23
(1,810)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	6	4.23
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	1	4.22
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	1	4.22
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	1	4.22
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	1	4.22
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	1	4.22
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	1	4.22
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	1	4.22
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	1	4.22
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	18	4.21
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	18	4.21
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	10	4.21
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD21	19	4.21
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD22	19	4.21
(1,669)	1:37:D:HIS:HB2	1:38:C:LEU:HD23	19	4.21
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD21	19	4.21
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD22	19	4.21
(1,669)	1:37:D:HIS:HB3	1:38:C:LEU:HD23	19	4.21
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	6	4.19
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	6	4.19
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	6	4.19
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	6	4.19
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	6	4.19
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	6	4.19
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	11	4.19
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	11	4.19
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	11	4.19
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	11	4.19
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	11	4.19
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	11	4.19
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	4	4.19
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	4	4.19
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	4	4.19
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	4	4.19
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	4	4.19
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	4	4.19
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	15	4.17
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	15	4.17
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	15	4.17
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	15	4.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	15	4.17
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	15	4.17
(1,809)	1:35:C:ILE:HD13	2:100:A:A2Y:H683	17	4.16
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	11	4.15
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	20	4.15
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	11	4.15
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	20	4.15
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	16	4.15
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	16	4.15
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	16	4.15
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	16	4.15
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	16	4.15
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	16	4.15
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	12	4.14
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	12	4.14
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	16	4.14
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	13	4.14
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	13	4.14
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	13	4.14
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	13	4.14
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	13	4.14
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	13	4.14
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	7	4.14
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	7	4.14
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	7	4.14
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	7	4.14
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	7	4.14
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	7	4.14
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	7	4.12
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	7	4.12
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	16	4.11
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	16	4.11
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	12	4.11
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	12	4.11
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	12	4.11
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	2	4.1
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	17	4.1
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	19	4.1
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	2	4.1
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	17	4.1
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	19	4.1
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	3	4.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	3	4.1
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	3	4.1
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	3	4.1
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	3	4.1
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	3	4.1
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	6	4.09
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	10	4.09
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	15	4.09
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	6	4.09
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	10	4.09
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	15	4.09
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	20	4.09
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	20	4.09
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	20	4.09
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	20	4.09
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	20	4.09
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	20	4.09
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	20	4.08
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	20	4.08
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	20	4.08
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	20	4.08
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	20	4.08
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	20	4.08
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	3	4.07
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	3	4.07
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	3	4.07
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	12	4.07
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	12	4.07
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	12	4.07
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	17	4.07
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	17	4.07
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	17	4.07
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	3	4.07
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	3	4.07
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	3	4.07
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	12	4.07
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	12	4.07
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	12	4.07
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	17	4.07
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	17	4.07
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	17	4.07
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	13	4.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	13	4.06
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	5	4.06
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	5	4.06
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	5	4.06
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	14	4.06
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	14	4.06
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	14	4.06
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	5	4.06
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	5	4.06
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	5	4.06
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	14	4.06
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	14	4.06
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	14	4.06
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD11	19	4.05
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD12	19	4.05
(1,668)	1:37:D:HIS:HB2	1:38:C:LEU:HD13	19	4.05
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD11	19	4.05
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD12	19	4.05
(1,668)	1:37:D:HIS:HB3	1:38:C:LEU:HD13	19	4.05
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	10	4.05
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	10	4.05
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	10	4.05
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	15	4.05
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	15	4.05
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	15	4.05
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	18	4.05
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	18	4.05
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	18	4.05
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	10	4.05
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	10	4.05
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	10	4.05
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	15	4.05
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	15	4.05
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	15	4.05
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	18	4.05
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	18	4.05
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	18	4.05
(1,886)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	8	4.04
(1,880)	1:37:D:HIS:HE1	1:41:D:TRP:CE3	8	4.04
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	2	4.04
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	2	4.04
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	2	4.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	9	4.04
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	9	4.04
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	9	4.04
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	2	4.04
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	2	4.04
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	2	4.04
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	9	4.04
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	9	4.04
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	9	4.04
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	11	4.02
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	11	4.02
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	11	4.02
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	7	4.02
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	7	4.02
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	7	4.02
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	5	4.02
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	5	4.02
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	5	4.02
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	7	4.02
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	7	4.02
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	7	4.02
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	5	4.02
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	5	4.02
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	5	4.02
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	1	4.0
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	1	4.0
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	1	4.0
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	6	4.0
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	6	4.0
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	6	4.0
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	1	4.0
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	1	4.0
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	1	4.0
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	6	4.0
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	6	4.0
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	6	4.0
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H683	15	3.99
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H683	15	3.99
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H683	15	3.99
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	13	3.99
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	13	3.99
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	13	3.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	17	3.99
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	17	3.99
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	17	3.99
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	13	3.99
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	13	3.99
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	13	3.99
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	17	3.99
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	17	3.99
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	17	3.99
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	6	3.98
(1,809)	1:35:C:ILE:HD11	2:100:A:A2Y:H683	14	3.97
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	16	3.97
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	16	3.97
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	16	3.97
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	12	3.97
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	12	3.97
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	12	3.97
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	15	3.97
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	15	3.97
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	15	3.97
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	18	3.97
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	18	3.97
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	18	3.97
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	16	3.97
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	16	3.97
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	16	3.97
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	12	3.97
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	12	3.97
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	12	3.97
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	15	3.97
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	15	3.97
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	15	3.97
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	18	3.97
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	18	3.97
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	18	3.97
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	9	3.96
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	9	3.96
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	9	3.96
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	9	3.96
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	9	3.96
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	9	3.96
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	2	3.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	2	3.95
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	2	3.95
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	10	3.95
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	10	3.95
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	10	3.95
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	20	3.95
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	20	3.95
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	20	3.95
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	2	3.95
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	2	3.95
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	2	3.95
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	10	3.95
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	10	3.95
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	10	3.95
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	20	3.95
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	20	3.95
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	20	3.95
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	14	3.94
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	14	3.94
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	14	3.94
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	19	3.94
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	19	3.94
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	19	3.94
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	14	3.94
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	14	3.94
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	14	3.94
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	19	3.94
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	19	3.94
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	19	3.94
(1,812)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	7	3.93
(1,811)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	7	3.93
(1,810)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	7	3.93
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	14	3.92
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	1	3.9
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	1	3.9
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	1	3.9
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	8	3.9
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	8	3.9
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	8	3.9
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	8	3.9
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	8	3.9
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	8	3.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	8	3.9
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	8	3.9
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	8	3.9
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	1	3.9
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	1	3.9
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	1	3.9
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	8	3.9
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	8	3.9
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	8	3.9
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	8	3.9
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	8	3.9
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	8	3.9
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	8	3.9
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	8	3.9
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	8	3.9
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	13	3.87
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	13	3.87
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	13	3.87
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	13	3.87
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	13	3.87
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	13	3.87
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	4	3.86
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	4	3.86
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	4	3.86
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	6	3.86
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	6	3.86
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	6	3.86
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	6	3.86
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	6	3.86
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	6	3.86
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	14	3.84
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	14	3.84
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	16	3.84
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	16	3.84
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	16	3.84
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	16	3.84
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	16	3.84
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	16	3.84
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	11	3.82
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	11	3.82
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	11	3.82
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	11	3.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	11	3.82
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	11	3.82
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	3	3.8
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	3	3.8
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	4	3.79
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	4	3.79
(1,805)	1:31:C:ASN:HA	2:100:A:A2Y:H663	18	3.79
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	19	3.78
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	19	3.78
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	19	3.78
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	19	3.78
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	19	3.78
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	19	3.78
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	15	3.75
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	15	3.75
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	15	3.75
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	15	3.75
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	15	3.75
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	15	3.75
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	5	3.74
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	5	3.74
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	9	3.73
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	9	3.73
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	8	3.73
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	13	3.73
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	8	3.73
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	13	3.73
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H663	11	3.73
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H663	11	3.73
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H663	11	3.73
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	1	3.73
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	1	3.73
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	1	3.73
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	6	3.73
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	6	3.73
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	6	3.73
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	1	3.73
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	1	3.73
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	1	3.73
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	6	3.73
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	6	3.73
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	6	3.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	6	3.72
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	15	3.72
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	6	3.72
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	15	3.72
(1,812)	1:35:D:ILE:HD11	2:100:A:A2Y:H683	14	3.72
(1,811)	1:35:D:ILE:HD11	2:100:A:A2Y:H683	14	3.72
(1,810)	1:35:D:ILE:HD11	2:100:A:A2Y:H683	14	3.72
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	11	3.72
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	11	3.72
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	11	3.72
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	5	3.72
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	5	3.72
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	5	3.72
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	7	3.72
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	7	3.72
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	7	3.72
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	11	3.72
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	11	3.72
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	11	3.72
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	12	3.72
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	12	3.72
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	12	3.72
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	11	3.72
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	11	3.72
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	11	3.72
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	5	3.72
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	5	3.72
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	5	3.72
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	7	3.72
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	7	3.72
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	7	3.72
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	11	3.72
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	11	3.72
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	11	3.72
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	12	3.72
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	12	3.72
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	12	3.72
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	1	3.71
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	18	3.71
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	1	3.71
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	18	3.71
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	2	3.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	17	3.71
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	2	3.71
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	17	3.71
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	10	3.7
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	10	3.7
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	11	3.69
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	19	3.69
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	20	3.69
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	11	3.69
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	19	3.69
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	20	3.69
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	11	3.68
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	11	3.68
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	7	3.68
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	12	3.68
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	16	3.68
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	7	3.68
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	12	3.68
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	16	3.68
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	4	3.68
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	5	3.68
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	4	3.68
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	5	3.68
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	15	3.68
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	12	3.67
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	12	3.67
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	3	3.67
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	3	3.67
(1,761)	1:32:C:ILE:H	2:100:A:A2Y:H663	16	3.67
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	7	3.66
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	20	3.66
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	7	3.66
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	20	3.66
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	1	3.66
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	1	3.66
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	15	3.66
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	15	3.66
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	15	3.66
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	15	3.66
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	16	3.65
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	17	3.65
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	16	3.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	17	3.65
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	3	3.65
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	3	3.65
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	9	3.65
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	9	3.65
(1,812)	1:35:D:ILE:HD13	2:100:A:A2Y:H683	18	3.65
(1,811)	1:35:D:ILE:HD13	2:100:A:A2Y:H683	18	3.65
(1,810)	1:35:D:ILE:HD13	2:100:A:A2Y:H683	18	3.65
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H683	15	3.65
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H683	15	3.65
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H683	15	3.65
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	2	3.64
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	6	3.64
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	10	3.64
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	15	3.64
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	19	3.64
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	2	3.64
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	6	3.64
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	10	3.64
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	15	3.64
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	19	3.64
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	18	3.64
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	18	3.64
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	1	3.63
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	4	3.63
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	9	3.63
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	1	3.63
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	4	3.63
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	9	3.63
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	13	3.62
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	13	3.62
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	11	3.62
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	14	3.62
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	11	3.62
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	14	3.62
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	3	3.62
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	3	3.62
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	3	3.62
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	3	3.62
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	3	3.62
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	3	3.62
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	3	3.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	3	3.62
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	3	3.62
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	3	3.62
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	3	3.62
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	3	3.62
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	3	3.62
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	3	3.62
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	3	3.62
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	3	3.62
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	3	3.62
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	3	3.62
(1,890)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	8	3.61
(1,884)	1:37:D:HIS:HE1	1:41:D:TRP:CE2	8	3.61
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	5	3.61
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	5	3.61
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	18	3.61
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	18	3.61
(1,761)	1:32:C:ILE:H	2:100:A:A2Y:H663	14	3.61
(1,871)	1:41:D:TRP:HA	1:41:D:TRP:HH2	14	3.6
(1,870)	1:41:D:TRP:HA	1:41:D:TRP:HH2	14	3.6
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	1	3.6
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	1	3.6
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	3	3.6
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	3	3.6
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	3	3.6
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	1	3.6
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	1	3.6
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	3	3.6
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	3	3.6
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	3	3.6
(1,761)	1:32:C:ILE:H	2:100:A:A2Y:H663	7	3.58
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	7	3.57
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	7	3.57
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	7	3.57
(1,809)	1:35:C:ILE:HD12	2:100:A:A2Y:H663	7	3.57
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	3	3.57
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	3	3.57
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H683	7	3.56
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H683	7	3.56
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H683	7	3.56
(1,805)	1:31:C:ASN:HA	2:100:A:A2Y:H663	16	3.56
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	14	3.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	14	3.56
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	7	3.56
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	7	3.56
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	7	3.56
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	7	3.54
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	7	3.54
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	5	3.54
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	5	3.54
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	8	3.53
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	17	3.53
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	20	3.53
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	8	3.53
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	17	3.53
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	20	3.53
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	12	3.52
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	16	3.52
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	19	3.52
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	12	3.52
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	16	3.52
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	19	3.52
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	19	3.52
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	13	3.51
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	15	3.51
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	13	3.51
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	15	3.51
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	5	3.51
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	5	3.51
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	5	3.51
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	5	3.51
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	5	3.51
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	5	3.51
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	2	3.5
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	10	3.5
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	2	3.5
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	10	3.5
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	9	3.5
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	9	3.5
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	17	3.5
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	17	3.5
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	17	3.5
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	17	3.5
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	17	3.5
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	17	3.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,863)	1:41:D:TRP:H	1:41:D:TRP:HH2	6	3.49
(1,862)	1:41:D:TRP:H	1:41:D:TRP:HH2	6	3.49
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	4	3.49
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	4	3.49
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	14	3.49
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	14	3.49
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	14	3.49
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	10	3.49
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	10	3.49
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	10	3.49
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	12	3.49
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	12	3.49
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	12	3.49
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	4	3.49
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	4	3.49
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	4	3.49
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	4	3.49
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	4	3.49
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	4	3.49
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	4	3.49
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	4	3.49
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	4	3.49
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	16	3.49
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	16	3.49
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	16	3.49
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	16	3.49
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	16	3.49
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	16	3.49
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	16	3.49
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	16	3.49
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	16	3.49
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	10	3.49
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	10	3.49
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	10	3.49
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	12	3.49
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	12	3.49
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	12	3.49
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	4	3.49
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	4	3.49
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	4	3.49
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	4	3.49
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	4	3.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	4	3.49
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	4	3.49
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	4	3.49
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	4	3.49
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	16	3.49
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	16	3.49
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	16	3.49
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	16	3.49
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	16	3.49
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	16	3.49
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	16	3.49
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	16	3.49
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	16	3.49
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	3	3.47
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	3	3.47
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	7	3.47
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	7	3.47
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	7	3.47
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	15	3.47
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	15	3.47
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	15	3.47
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	17	3.47
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	17	3.47
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	17	3.47
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	17	3.47
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	17	3.47
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	17	3.47
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	17	3.47
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	17	3.47
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	17	3.47
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	3	3.47
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	3	3.47
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	7	3.47
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	7	3.47
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	7	3.47
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	15	3.47
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	15	3.47
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	15	3.47
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	17	3.47
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	17	3.47
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	17	3.47
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	17	3.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	17	3.47
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	17	3.47
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	17	3.47
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	17	3.47
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	17	3.47
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	13	3.46
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	13	3.46
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	13	3.46
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	13	3.46
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	13	3.46
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	13	3.46
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	13	3.46
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	13	3.46
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	13	3.46
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	13	3.46
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	13	3.46
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	13	3.46
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	13	3.46
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	13	3.46
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	13	3.46
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	13	3.46
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	13	3.46
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	13	3.46
(1,805)	1:31:C:ASN:HA	2:100:A:A2Y:H663	14	3.45
(1,761)	1:32:C:ILE:H	2:100:A:A2Y:H663	6	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	2	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	2	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	2	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	9	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	9	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	9	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	14	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	14	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	14	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	18	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	18	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	18	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	20	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	20	3.45
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	20	3.45
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	2	3.45
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	2	3.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	2	3.45
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	9	3.45
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	9	3.45
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	9	3.45
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	14	3.45
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	14	3.45
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	14	3.45
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	18	3.45
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	18	3.45
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	18	3.45
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	20	3.45
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	20	3.45
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	20	3.45
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	18	3.44
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	9	3.44
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	9	3.44
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	9	3.44
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	9	3.44
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	9	3.44
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	9	3.44
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	9	3.44
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	9	3.44
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	9	3.44
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	9	3.44
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	9	3.44
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	9	3.44
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	9	3.44
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	9	3.44
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	9	3.44
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	9	3.44
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	9	3.44
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	9	3.44
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	18	3.43
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	18	3.43
(1,761)	1:32:C:ILE:H	2:100:A:A2Y:H663	19	3.42
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	2	3.42
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	2	3.42
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	2	3.42
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	2	3.42
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	2	3.42
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	2	3.42
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	2	3.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	2	3.42
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	2	3.42
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	18	3.42
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	18	3.42
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	18	3.42
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	18	3.42
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	18	3.42
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	18	3.42
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	18	3.42
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	18	3.42
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	18	3.42
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	2	3.42
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	2	3.42
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	2	3.42
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	2	3.42
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	2	3.42
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	2	3.42
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	2	3.42
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	2	3.42
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	2	3.42
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	18	3.42
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	18	3.42
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	18	3.42
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	18	3.42
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	18	3.42
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	18	3.42
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	18	3.42
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	18	3.42
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	18	3.42
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	3	3.41
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	14	3.41
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	3	3.41
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	14	3.41
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	1	3.41
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	1	3.41
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	12	3.41
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	12	3.41
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	12	3.41
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	12	3.41
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	12	3.41
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	12	3.41
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	12	3.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	12	3.41
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	12	3.41
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	12	3.41
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	12	3.41
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	12	3.41
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	12	3.41
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	12	3.41
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	12	3.41
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	12	3.41
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	12	3.41
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	12	3.41
(1,761)	1:32:C:ILE:H	2:100:A:A2Y:H683	18	3.4
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	17	3.4
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	17	3.4
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	20	3.4
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	20	3.4
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	4	3.39
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	4	3.39
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	1	3.39
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	3	3.39
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	4	3.39
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	5	3.39
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	1	3.39
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	3	3.39
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	4	3.39
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	5	3.39
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	2	3.39
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	2	3.39
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	7	3.39
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	7	3.39
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	8	3.39
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	8	3.39
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	15	3.39
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	15	3.39
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	15	3.39
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	15	3.39
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	15	3.39
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	15	3.39
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	15	3.39
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	15	3.39
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	15	3.39
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	15	3.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	15	3.39
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	15	3.39
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	15	3.39
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	15	3.39
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	15	3.39
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	15	3.39
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	15	3.39
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	15	3.39
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	12	3.38
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	12	3.38
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	8	3.38
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	8	3.38
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	8	3.38
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD11	8	3.38
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD12	8	3.38
(1,432)	1:33:D:ILE:HA	1:38:D:LEU:HD13	8	3.38
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	11	3.38
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	11	3.38
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	11	3.38
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	11	3.38
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	11	3.38
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	11	3.38
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	11	3.38
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	11	3.38
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	11	3.38
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	20	3.38
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	20	3.38
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	20	3.38
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	20	3.38
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	20	3.38
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	20	3.38
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	20	3.38
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	20	3.38
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	20	3.38
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD11	8	3.38
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD12	8	3.38
(1,242)	1:33:D:ILE:HA	1:38:D:LEU:HD13	8	3.38
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	11	3.38
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	11	3.38
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	11	3.38
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	11	3.38
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	11	3.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	11	3.38
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	11	3.38
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	11	3.38
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	11	3.38
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	20	3.38
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	20	3.38
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	20	3.38
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	20	3.38
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	20	3.38
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	20	3.38
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	20	3.38
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	20	3.38
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	20	3.38
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	14	3.37
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	14	3.37
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	10	3.37
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	10	3.37
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	13	3.37
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	13	3.37
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	10	3.37
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	10	3.37
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	10	3.37
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	10	3.37
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	10	3.37
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	10	3.37
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	10	3.37
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	10	3.37
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	10	3.37
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	10	3.37
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	10	3.37
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	10	3.37
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	10	3.37
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	10	3.37
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	10	3.37
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	10	3.37
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	10	3.37
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	10	3.37
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	9	3.36
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	18	3.36
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	9	3.36
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	18	3.36
(1,805)	1:31:C:ASN:HA	2:100:A:A2Y:H663	6	3.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H683	11	3.36
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H683	11	3.36
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H683	11	3.36
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	18	3.36
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	18	3.36
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	18	3.36
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	18	3.36
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	18	3.36
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	18	3.36
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	18	3.36
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	18	3.36
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	18	3.36
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	18	3.36
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	18	3.36
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	18	3.36
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	11	3.35
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	11	3.35
(1,761)	1:32:C:ILE:H	2:100:A:A2Y:H663	10	3.35
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	15	3.35
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	15	3.35
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	6	3.34
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	6	3.34
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	11	3.34
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	11	3.34
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	11	3.34
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	11	3.34
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	11	3.34
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	11	3.34
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	11	3.34
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	11	3.34
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	11	3.34
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	11	3.34
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	11	3.34
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	11	3.34
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	5	3.33
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	5	3.33
(1,812)	1:35:D:ILE:HD12	2:100:A:A2Y:H663	4	3.33
(1,811)	1:35:D:ILE:HD12	2:100:A:A2Y:H663	4	3.33
(1,810)	1:35:D:ILE:HD12	2:100:A:A2Y:H663	4	3.33
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	11	3.33
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	11	3.33
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	9	3.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	9	3.32
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	7	3.32
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	17	3.32
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	19	3.32
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	20	3.32
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	7	3.32
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	17	3.32
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	19	3.32
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	20	3.32
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	16	3.32
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	16	3.32
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	15	3.32
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	15	3.32
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	15	3.32
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	15	3.32
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	15	3.32
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	15	3.32
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	17	3.32
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	17	3.32
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	17	3.32
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	17	3.32
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	17	3.32
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	17	3.32
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	6	3.32
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	6	3.32
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	6	3.32
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	13	3.32
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	13	3.32
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	13	3.32
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	15	3.32
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	15	3.32
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	15	3.32
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	15	3.32
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	15	3.32
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	15	3.32
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	17	3.32
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	17	3.32
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	17	3.32
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	17	3.32
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	17	3.32
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	17	3.32
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	6	3.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	6	3.32
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	6	3.32
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	13	3.32
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	13	3.32
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	13	3.32
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	8	3.31
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	12	3.31
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	13	3.31
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	15	3.31
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	16	3.31
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	8	3.31
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	12	3.31
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	13	3.31
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	15	3.31
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	16	3.31
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	6	3.31
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	6	3.31
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	6	3.31
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	6	3.31
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	6	3.31
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	6	3.31
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	6	3.31
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	6	3.31
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	6	3.31
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	6	3.31
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	6	3.31
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	6	3.31
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	6	3.31
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	6	3.31
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	6	3.31
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	6	3.31
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	6	3.31
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	6	3.31
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	2	3.3
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	10	3.3
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	2	3.3
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	10	3.3
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB2	19	3.3
(1,672)	1:37:D:HIS:HE1	1:41:C:TRP:HB3	19	3.3
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	1	3.3
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	1	3.3
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	1	3.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	16	3.3
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	16	3.3
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	16	3.3
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	1	3.3
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	1	3.3
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	1	3.3
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	16	3.3
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	16	3.3
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	16	3.3
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	1	3.29
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	18	3.29
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	1	3.29
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	18	3.29
(1,859)	1:41:D:TRP:H	1:41:D:TRP:HZ2	6	3.29
(1,858)	1:41:D:TRP:H	1:41:D:TRP:HZ2	6	3.29
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	10	3.29
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	10	3.29
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	10	3.29
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	17	3.29
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	17	3.29
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	17	3.29
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	12	3.29
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	12	3.29
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	12	3.29
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	12	3.29
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	12	3.29
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	12	3.29
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	13	3.29
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	13	3.29
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	13	3.29
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	13	3.29
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	13	3.29
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	13	3.29
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	16	3.29
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	16	3.29
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	16	3.29
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	16	3.29
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	16	3.29
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	16	3.29
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	20	3.29
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	20	3.29
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	20	3.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	20	3.29
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	20	3.29
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	20	3.29
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	12	3.29
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	12	3.29
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	12	3.29
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	12	3.29
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	12	3.29
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	12	3.29
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	13	3.29
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	13	3.29
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	13	3.29
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	13	3.29
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	13	3.29
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	13	3.29
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	16	3.29
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	16	3.29
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	16	3.29
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	16	3.29
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	16	3.29
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	16	3.29
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	20	3.29
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	20	3.29
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	20	3.29
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	20	3.29
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	20	3.29
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	20	3.29
(1,809)	1:35:C:ILE:HD12	2:100:A:A2Y:H663	15	3.28
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	9	3.28
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	9	3.28
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	9	3.28
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	9	3.28
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	9	3.28
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	9	3.28
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	10	3.28
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	10	3.28
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	10	3.28
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	10	3.28
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	10	3.28
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	10	3.28
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	19	3.28
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	19	3.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	19	3.28
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	19	3.28
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	19	3.28
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	19	3.28
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	9	3.28
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	9	3.28
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	9	3.28
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	9	3.28
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	9	3.28
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	9	3.28
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	10	3.28
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	10	3.28
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	10	3.28
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	10	3.28
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	10	3.28
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	10	3.28
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	19	3.28
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	19	3.28
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	19	3.28
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	19	3.28
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	19	3.28
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	19	3.28
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	2	3.27
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	2	3.27
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	2	3.27
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	2	3.27
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	2	3.27
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	2	3.27
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	2	3.27
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	2	3.27
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	2	3.27
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	2	3.27
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	2	3.27
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	2	3.27
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	1	3.26
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	1	3.26
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	1	3.26
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	1	3.26
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	1	3.26
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	1	3.26
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	5	3.26
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	5	3.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	5	3.26
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	5	3.26
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	5	3.26
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	5	3.26
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	5	3.26
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	5	3.26
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	5	3.26
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	1	3.26
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	1	3.26
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	1	3.26
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	1	3.26
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	1	3.26
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	1	3.26
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	5	3.26
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	5	3.26
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	5	3.26
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	5	3.26
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	5	3.26
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	5	3.26
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	5	3.26
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	5	3.26
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	5	3.26
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	1	3.25
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	1	3.25
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	1	3.25
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	1	3.25
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	1	3.25
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	1	3.25
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	1	3.25
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	1	3.25
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	1	3.25
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	1	3.25
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	1	3.25
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	1	3.25
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	1	3.25
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	1	3.25
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	1	3.25
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	1	3.25
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	1	3.25
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	1	3.25
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	9	3.24
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	9	3.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	9	3.24
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	5	3.24
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	5	3.24
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	5	3.24
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	5	3.24
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	5	3.24
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	5	3.24
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	5	3.24
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	5	3.24
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	5	3.24
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	5	3.24
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	5	3.24
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	5	3.24
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	11	3.23
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	20	3.23
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	11	3.23
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	20	3.23
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	11	3.23
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H683	15	3.23
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H683	15	3.23
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H683	15	3.23
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	13	3.23
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	13	3.23
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	13	3.23
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	14	3.23
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	14	3.23
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	6	3.23
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	6	3.23
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	6	3.23
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	6	3.23
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	6	3.23
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	6	3.23
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	14	3.23
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	14	3.23
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	6	3.23
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	6	3.23
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	6	3.23
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	6	3.23
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	6	3.23
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	6	3.23
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	12	3.22
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	12	3.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	2	3.22
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	2	3.22
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	2	3.22
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	19	3.22
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	19	3.22
(1,408)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	19	3.22
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	19	3.22
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	19	3.22
(1,408)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	19	3.22
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	19	3.22
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	19	3.22
(1,408)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	19	3.22
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD11	19	3.22
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD12	19	3.22
(1,218)	1:29:D:ALA:HB1	1:35:D:ILE:HD13	19	3.22
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD11	19	3.22
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD12	19	3.22
(1,218)	1:29:D:ALA:HB2	1:35:D:ILE:HD13	19	3.22
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD11	19	3.22
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD12	19	3.22
(1,218)	1:29:D:ALA:HB3	1:35:D:ILE:HD13	19	3.22
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	7	3.21
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	7	3.21
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	4	3.21
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	4	3.21
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	4	3.21
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	10	3.21
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	10	3.21
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	10	3.21
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	13	3.21
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	13	3.21
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	13	3.21
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	4	3.21
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	4	3.21
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	4	3.21
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	10	3.21
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	10	3.21
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	10	3.21
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	13	3.21
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	13	3.21
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	13	3.21
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	16	3.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	17	3.2
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	16	3.2
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	17	3.2
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	4	3.2
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	4	3.2
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	4	3.2
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	4	3.2
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	4	3.2
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	2	3.19
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	15	3.19
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	2	3.19
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	15	3.19
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	14	3.19
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	14	3.19
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	3	3.19
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	3	3.19
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	3	3.19
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	18	3.19
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	18	3.19
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	18	3.19
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	20	3.19
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	20	3.19
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	20	3.19
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	3	3.19
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	3	3.19
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	3	3.19
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	18	3.19
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	18	3.19
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	18	3.19
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	20	3.19
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	20	3.19
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	20	3.19
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	6	3.18
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	10	3.18
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	19	3.18
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	6	3.18
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	10	3.18
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	19	3.18
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	3	3.18
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	3	3.18
(1,805)	1:31:C:ASN:HA	2:100:A:A2Y:H663	7	3.18
(1,805)	1:31:C:ASN:HA	2:100:A:A2Y:H663	19	3.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	4	3.18
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	4	3.18
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	4	3.18
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	4	3.18
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	4	3.18
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	4	3.18
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG12	18	3.18
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG13	18	3.18
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	15	3.18
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	15	3.18
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	15	3.18
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	17	3.18
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	17	3.18
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	17	3.18
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	4	3.18
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	4	3.18
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	4	3.18
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	4	3.18
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	4	3.18
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	4	3.18
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG12	18	3.18
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG13	18	3.18
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	15	3.18
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	15	3.18
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	15	3.18
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	17	3.18
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	17	3.18
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	17	3.18
(1,440)	1:33:D:ILE:HD13	1:35:D:ILE:HG12	3	3.17
(1,440)	1:33:D:ILE:HD13	1:35:D:ILE:HG13	3	3.17
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG12	9	3.17
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG13	9	3.17
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG12	15	3.17
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG13	15	3.17
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	2	3.17
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	2	3.17
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	2	3.17
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	9	3.17
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	9	3.17
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	9	3.17
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	10	3.17
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	10	3.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	10	3.17
(1,250)	1:33:D:ILE:HD13	1:35:D:ILE:HG12	3	3.17
(1,250)	1:33:D:ILE:HD13	1:35:D:ILE:HG13	3	3.17
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG12	9	3.17
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG13	9	3.17
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG12	15	3.17
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG13	15	3.17
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	2	3.17
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	2	3.17
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	2	3.17
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	9	3.17
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	9	3.17
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	9	3.17
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	10	3.17
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	10	3.17
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	10	3.17
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	13	3.16
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	13	3.16
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG12	2	3.16
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG13	2	3.16
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG12	17	3.16
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG13	17	3.16
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	12	3.16
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	12	3.16
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	12	3.16
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	20	3.16
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	20	3.16
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	20	3.16
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	19	3.16
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	19	3.16
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	19	3.16
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG12	2	3.16
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG13	2	3.16
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG12	17	3.16
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG13	17	3.16
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	12	3.16
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	12	3.16
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	12	3.16
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	20	3.16
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	20	3.16
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	20	3.16
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	19	3.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	19	3.16
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	19	3.16
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	3	3.15
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	3	3.15
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	3	3.15
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	5	3.15
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	5	3.15
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	5	3.15
(1,440)	1:33:D:ILE:HD13	1:35:D:ILE:HG12	12	3.15
(1,440)	1:33:D:ILE:HD13	1:35:D:ILE:HG13	12	3.15
(1,250)	1:33:D:ILE:HD13	1:35:D:ILE:HG12	12	3.15
(1,250)	1:33:D:ILE:HD13	1:35:D:ILE:HG13	12	3.15
(1,885)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	8	3.14
(1,879)	1:37:D:HIS:HE1	1:41:D:TRP:CD2	8	3.14
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	3	3.14
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	3	3.14
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	3	3.14
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	15	3.14
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	15	3.14
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	15	3.14
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG12	10	3.14
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG13	10	3.14
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	5	3.14
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	5	3.14
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	5	3.14
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	7	3.14
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	7	3.14
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	7	3.14
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	14	3.14
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	14	3.14
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	14	3.14
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG12	10	3.14
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG13	10	3.14
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	5	3.14
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	5	3.14
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	5	3.14
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	7	3.14
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	7	3.14
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	7	3.14
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	14	3.14
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	14	3.14
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	14	3.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	18	3.13
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	18	3.13
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	18	3.13
(1,809)	1:35:C:ILE:HD11	2:100:A:A2Y:H683	9	3.12
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	16	3.12
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	16	3.12
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	16	3.12
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG12	5	3.12
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG13	5	3.12
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG12	5	3.12
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG13	5	3.12
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	11	3.1
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	11	3.1
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	11	3.1
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	12	3.1
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	12	3.1
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	12	3.1
(1,805)	1:31:C:ASN:HA	2:100:A:A2Y:H663	10	3.09
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG12	20	3.09
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG13	20	3.09
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	11	3.09
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	11	3.09
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	11	3.09
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG12	20	3.09
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG13	20	3.09
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	11	3.09
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	11	3.09
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	11	3.09
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	3	3.08
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	3	3.08
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	3	3.08
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	3	3.08
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	3	3.08
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	3	3.08
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	3	3.08
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	3	3.08
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	3	3.08
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	3	3.08
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	3	3.08
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	3	3.08
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	10	3.07
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	10	3.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD21	8	3.07
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD22	8	3.07
(1,433)	1:33:D:ILE:HA	1:38:D:LEU:HD23	8	3.07
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	10	3.07
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	10	3.07
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD21	8	3.07
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD22	8	3.07
(1,243)	1:33:D:ILE:HA	1:38:D:LEU:HD23	8	3.07
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	20	3.05
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	20	3.05
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	20	3.05
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	20	3.05
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	5	3.04
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	5	3.04
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H663	13	3.04
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H663	13	3.04
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H663	13	3.04
(1,761)	1:32:C:ILE:H	2:100:A:A2Y:H663	1	3.04
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	9	3.01
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	9	3.01
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	1	3.01
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	1	3.01
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	1	3.01
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	2	2.99
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	2	2.99
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	2	2.99
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	6	2.99
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	6	2.99
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	6	2.99
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD11	8	2.99
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD12	8	2.99
(1,438)	1:33:D:ILE:HB	1:38:D:LEU:HD13	8	2.99
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD11	8	2.99
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD12	8	2.99
(1,248)	1:33:D:ILE:HB	1:38:D:LEU:HD13	8	2.99
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	1	2.97
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	1	2.97
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H663	12	2.97
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H663	12	2.97
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H663	12	2.97
(1,809)	1:35:C:ILE:HD12	2:100:A:A2Y:H683	8	2.96
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H683	7	2.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H683	7	2.96
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H683	7	2.96
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	8	2.96
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	8	2.96
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	8	2.96
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	8	2.96
(1,809)	1:35:C:ILE:HD11	2:100:A:A2Y:H663	11	2.93
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	16	2.93
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	16	2.93
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	16	2.93
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	16	2.93
(1,765)	1:34:C:GLY:H	2:100:A:A2Y:H683	7	2.91
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	11	2.91
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	11	2.91
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	19	2.91
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	19	2.91
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	7	2.91
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	7	2.91
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	7	2.91
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	11	2.91
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	11	2.91
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	19	2.91
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	19	2.91
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	7	2.91
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	7	2.91
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	7	2.91
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	19	2.9
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	19	2.9
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	19	2.9
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	19	2.9
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	19	2.9
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	19	2.9
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	20	2.88
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	20	2.88
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	20	2.88
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	7	2.87
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	11	2.87
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	7	2.87
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	11	2.87
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	3	2.87
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	3	2.87
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	3	2.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	3	2.87
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	3	2.87
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	3	2.87
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	13	2.86
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	13	2.86
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	18	2.86
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	18	2.86
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	5	2.86
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	5	2.86
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	5	2.86
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	4	2.86
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	4	2.86
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	4	2.86
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	14	2.86
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	14	2.86
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	14	2.86
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	4	2.86
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	4	2.86
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	4	2.86
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	14	2.86
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	14	2.86
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	14	2.86
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	15	2.85
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	15	2.85
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H683	1	2.85
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H683	1	2.85
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H683	1	2.85
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	7	2.85
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	7	2.85
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	7	2.85
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	7	2.85
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	2	2.84
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	6	2.84
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	2	2.84
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	6	2.84
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG12	7	2.84
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG13	7	2.84
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG12	7	2.84
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG13	7	2.84
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	8	2.83
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	17	2.83
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	20	2.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	8	2.83
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	17	2.83
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	20	2.83
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	12	2.83
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	12	2.83
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	16	2.83
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	16	2.83
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	16	2.83
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	17	2.83
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	17	2.83
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	17	2.83
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG12	14	2.83
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG13	14	2.83
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	14	2.83
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	14	2.83
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	14	2.83
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	17	2.83
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	17	2.83
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	17	2.83
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	12	2.83
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	12	2.83
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	16	2.83
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	16	2.83
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	16	2.83
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	17	2.83
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	17	2.83
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	17	2.83
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG12	14	2.83
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG13	14	2.83
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	14	2.83
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	14	2.83
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	14	2.83
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	17	2.83
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	17	2.83
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	17	2.83
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	10	2.82
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	19	2.82
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	10	2.82
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	19	2.82
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	1	2.82
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	1	2.82
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	1	2.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	6	2.82
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	6	2.82
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	6	2.82
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	9	2.82
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	9	2.82
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	9	2.82
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	20	2.82
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	20	2.82
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	20	2.82
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	6	2.82
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	6	2.82
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	6	2.82
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	9	2.82
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	9	2.82
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	9	2.82
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	20	2.82
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	20	2.82
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	20	2.82
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H663	10	2.81
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H663	10	2.81
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H663	10	2.81
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	6	2.81
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	6	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	2	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	2	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	2	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	10	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	10	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	10	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	11	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	11	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	11	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	12	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	12	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	12	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	15	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	15	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	15	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	19	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	19	2.81
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	19	2.81
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	6	2.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	6	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	2	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	2	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	2	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	10	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	10	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	10	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	11	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	11	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	11	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	12	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	12	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	12	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	15	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	15	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	15	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	19	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	19	2.81
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	19	2.81
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	16	2.8
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	16	2.8
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	5	2.8
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	5	2.8
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	5	2.8
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	13	2.8
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	13	2.8
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	13	2.8
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	18	2.8
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	18	2.8
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	18	2.8
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	5	2.8
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	5	2.8
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	5	2.8
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	13	2.8
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	13	2.8
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	13	2.8
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	18	2.8
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	18	2.8
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	18	2.8
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	20	2.79
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	20	2.79
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	1	2.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	1	2.79
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	1	2.79
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	20	2.79
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	20	2.79
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	1	2.79
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	1	2.79
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	1	2.79
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	7	2.78
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	12	2.78
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	7	2.78
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	12	2.78
(1,805)	1:31:C:ASN:HA	2:100:A:A2Y:H663	8	2.78
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	2	2.78
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	2	2.78
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	2	2.78
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	2	2.78
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	2	2.78
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	2	2.78
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	18	2.77
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	18	2.77
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	12	2.77
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	12	2.77
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	4	2.77
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	4	2.77
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	4	2.77
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	4	2.77
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	11	2.76
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	11	2.76
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	16	2.76
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	16	2.76
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	14	2.76
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	14	2.76
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	15	2.76
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	15	2.76
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	9	2.76
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	9	2.76
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	9	2.76
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	14	2.76
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	14	2.76
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	15	2.76
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	15	2.76
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	9	2.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	9	2.76
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	9	2.76
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	1	2.75
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	3	2.75
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	4	2.75
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	1	2.75
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	3	2.75
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	4	2.75
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	8	2.75
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	8	2.75
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	8	2.75
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	8	2.75
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	8	2.75
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	8	2.75
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	14	2.74
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	14	2.74
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	19	2.74
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	19	2.74
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	5	2.74
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	5	2.74
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	3	2.74
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	3	2.74
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	3	2.74
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	16	2.74
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	16	2.74
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	16	2.74
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	5	2.74
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	5	2.74
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	3	2.74
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	3	2.74
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	3	2.74
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	16	2.74
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	16	2.74
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	16	2.74
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	8	2.72
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	10	2.72
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	8	2.72
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	10	2.72
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	5	2.71
(1,867)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	9	2.71
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	5	2.71
(1,866)	1:41:D:TRP:HA	1:41:D:TRP:HZ2	9	2.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,602)	1:30:D:ALA:HB1	1:31:C:ASN:HA	19	2.71
(1,602)	1:30:D:ALA:HB2	1:31:C:ASN:HA	19	2.71
(1,602)	1:30:D:ALA:HB3	1:31:C:ASN:HA	19	2.71
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	2	2.7
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	2	2.7
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	15	2.69
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	17	2.69
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	20	2.69
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	15	2.69
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	17	2.69
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	20	2.69
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H683	19	2.69
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H683	19	2.69
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H683	19	2.69
(1,805)	1:31:C:ASN:HA	2:100:A:A2Y:H663	1	2.69
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	9	2.69
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	9	2.69
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	17	2.69
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	17	2.69
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	9	2.69
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	9	2.69
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	17	2.69
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	17	2.69
(1,765)	1:34:C:GLY:H	2:100:A:A2Y:H683	16	2.68
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	3	2.68
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	3	2.68
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	6	2.67
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	6	2.67
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	7	2.67
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	7	2.67
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	7	2.67
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	7	2.67
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	7	2.67
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	7	2.67
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG21	19	2.67
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG22	19	2.67
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG23	19	2.67
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	7	2.67
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	7	2.67
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	7	2.67
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	7	2.67
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	7	2.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	7	2.67
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG21	19	2.67
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG22	19	2.67
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG23	19	2.67
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	14	2.65
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	14	2.65
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	14	2.65
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	14	2.65
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	14	2.65
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	14	2.65
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	14	2.65
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	14	2.65
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	14	2.65
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	14	2.65
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	14	2.65
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	14	2.65
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	14	2.65
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	14	2.65
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	14	2.65
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	14	2.65
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	14	2.65
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	14	2.65
(1,809)	1:35:C:ILE:HD11	2:100:A:A2Y:H683	5	2.64
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD21	8	2.64
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD22	8	2.64
(1,472)	1:37:D:HIS:HA	1:38:D:LEU:HD23	8	2.64
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	4	2.64
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	4	2.64
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	4	2.64
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	4	2.64
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	4	2.64
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	4	2.64
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD21	8	2.64
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD22	8	2.64
(1,282)	1:37:D:HIS:HA	1:38:D:LEU:HD23	8	2.64
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	4	2.64
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	4	2.64
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	4	2.64
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	4	2.64
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	4	2.64
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	4	2.64
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H663	13	2.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H663	13	2.63
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H663	13	2.63
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	4	2.63
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	14	2.63
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	7	2.63
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	7	2.63
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	7	2.63
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG21	16	2.63
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG22	16	2.63
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG23	16	2.63
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	4	2.63
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	14	2.63
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	7	2.63
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	7	2.63
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	7	2.63
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG21	16	2.63
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG22	16	2.63
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG23	16	2.63
(1,835)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	13	2.62
(1,834)	1:37:D:HIS:HD2	1:41:D:TRP:HH2	13	2.62
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	12	2.62
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	12	2.62
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	12	2.62
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	12	2.62
(1,765)	1:34:C:GLY:H	2:100:A:A2Y:H683	14	2.61
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	17	2.61
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	17	2.61
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	17	2.61
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	17	2.61
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	12	2.6
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	12	2.6
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	12	2.6
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	12	2.6
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	12	2.6
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	12	2.6
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	15	2.6
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	15	2.6
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	15	2.6
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	15	2.6
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	15	2.6
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	15	2.6
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	19	2.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	19	2.6
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	19	2.6
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	12	2.6
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	12	2.6
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	12	2.6
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	12	2.6
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	12	2.6
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	12	2.6
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	15	2.6
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	15	2.6
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	15	2.6
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	15	2.6
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	15	2.6
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	15	2.6
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	19	2.6
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	19	2.6
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	19	2.6
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	2	2.59
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	2	2.59
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	2	2.59
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	2	2.59
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	2	2.59
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	2	2.59
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	10	2.59
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	10	2.59
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	10	2.59
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	10	2.59
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	10	2.59
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	10	2.59
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	17	2.59
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	17	2.59
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	17	2.59
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	17	2.59
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	17	2.59
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	17	2.59
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	18	2.59
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	18	2.59
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	18	2.59
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	18	2.59
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	18	2.59
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	18	2.59
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	2	2.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	2	2.59
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	2	2.59
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	2	2.59
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	2	2.59
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	2	2.59
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	10	2.59
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	10	2.59
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	10	2.59
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	10	2.59
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	10	2.59
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	10	2.59
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	17	2.59
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	17	2.59
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	17	2.59
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	17	2.59
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	17	2.59
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	17	2.59
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	18	2.59
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	18	2.59
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	18	2.59
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	18	2.59
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	18	2.59
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	18	2.59
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H663	16	2.58
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H663	16	2.58
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H663	16	2.58
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	3	2.58
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	3	2.58
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	3	2.58
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	3	2.58
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	3	2.58
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	3	2.58
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	7	2.58
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	7	2.58
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	7	2.58
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	7	2.58
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	7	2.58
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	7	2.58
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	9	2.58
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	9	2.58
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	9	2.58
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	9	2.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	9	2.58
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	9	2.58
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	16	2.58
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	16	2.58
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	16	2.58
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	3	2.58
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	3	2.58
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	3	2.58
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	3	2.58
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	3	2.58
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	3	2.58
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	7	2.58
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	7	2.58
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	7	2.58
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	7	2.58
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	7	2.58
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	7	2.58
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	9	2.58
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	9	2.58
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	9	2.58
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	9	2.58
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	9	2.58
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	9	2.58
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	16	2.58
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	16	2.58
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	16	2.58
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	20	2.57
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H663	12	2.57
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H663	12	2.57
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H663	12	2.57
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	1	2.57
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	1	2.57
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	5	2.57
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	4	2.57
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	4	2.57
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	4	2.57
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	13	2.57
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	13	2.57
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	13	2.57
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	13	2.57
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	13	2.57
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	13	2.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	1	2.57
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	1	2.57
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	5	2.57
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	4	2.57
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	4	2.57
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	4	2.57
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	13	2.57
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	13	2.57
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	13	2.57
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	13	2.57
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	13	2.57
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	13	2.57
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	10	2.56
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	10	2.56
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	10	2.56
(1,812)	1:35:D:ILE:HD11	2:100:A:A2Y:H663	20	2.56
(1,811)	1:35:D:ILE:HD11	2:100:A:A2Y:H663	20	2.56
(1,810)	1:35:D:ILE:HD11	2:100:A:A2Y:H663	20	2.56
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	9	2.56
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	14	2.56
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	14	2.56
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	14	2.56
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	14	2.56
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	14	2.56
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	14	2.56
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	16	2.56
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	16	2.56
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	16	2.56
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	16	2.56
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	16	2.56
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	16	2.56
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG21	13	2.56
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG22	13	2.56
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG23	13	2.56
(1,387)	1:26:D:LEU:HD21	1:28:D:VAL:HA	18	2.56
(1,387)	1:26:D:LEU:HD22	1:28:D:VAL:HA	18	2.56
(1,387)	1:26:D:LEU:HD23	1:28:D:VAL:HA	18	2.56
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	9	2.56
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	14	2.56
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	14	2.56
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	14	2.56
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	14	2.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	14	2.56
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	14	2.56
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	16	2.56
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	16	2.56
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	16	2.56
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	16	2.56
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	16	2.56
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	16	2.56
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG21	13	2.56
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG22	13	2.56
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG23	13	2.56
(1,197)	1:26:D:LEU:HD21	1:28:D:VAL:HA	18	2.56
(1,197)	1:26:D:LEU:HD22	1:28:D:VAL:HA	18	2.56
(1,197)	1:26:D:LEU:HD23	1:28:D:VAL:HA	18	2.56
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	4	2.55
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	4	2.55
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	4	2.55
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	4	2.55
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	4	2.55
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	4	2.55
(1,812)	1:35:D:ILE:HD13	2:100:A:A2Y:H663	2	2.54
(1,811)	1:35:D:ILE:HD13	2:100:A:A2Y:H663	2	2.54
(1,810)	1:35:D:ILE:HD13	2:100:A:A2Y:H663	2	2.54
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	19	2.54
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	19	2.54
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	19	2.54
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	19	2.54
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	19	2.54
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	19	2.54
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	19	2.54
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	19	2.54
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	19	2.54
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	19	2.54
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	19	2.54
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	19	2.54
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	3	2.53
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	3	2.53
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	3	2.53
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	13	2.53
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	13	2.53
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	13	2.53
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	3	2.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	3	2.53
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	3	2.53
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	13	2.53
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	13	2.53
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	13	2.53
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H663	10	2.52
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H663	10	2.52
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H663	10	2.52
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	5	2.52
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	5	2.52
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	5	2.52
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	5	2.52
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	5	2.52
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	5	2.52
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	11	2.52
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	11	2.52
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	11	2.52
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	11	2.52
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	11	2.52
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	11	2.52
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	20	2.52
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	20	2.52
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	20	2.52
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	20	2.52
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	20	2.52
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	20	2.52
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	1	2.52
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	1	2.52
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	1	2.52
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	5	2.52
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	5	2.52
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	5	2.52
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	5	2.52
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	5	2.52
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	5	2.52
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	11	2.52
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	11	2.52
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	11	2.52
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	11	2.52
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	11	2.52
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	11	2.52
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	20	2.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	20	2.52
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	20	2.52
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	20	2.52
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	20	2.52
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	20	2.52
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	1	2.52
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	1	2.52
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	1	2.52
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	19	2.51
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	19	2.51
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	19	2.51
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	1	2.51
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	6	2.51
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	6	2.51
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	6	2.51
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	6	2.51
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	6	2.51
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	6	2.51
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	8	2.51
(1,444)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	8	2.51
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	8	2.51
(1,444)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	8	2.51
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	8	2.51
(1,444)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	8	2.51
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	1	2.51
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	6	2.51
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	6	2.51
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	6	2.51
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	6	2.51
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	6	2.51
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	6	2.51
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB2	8	2.51
(1,254)	1:33:D:ILE:HG21	1:38:D:LEU:HB3	8	2.51
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB2	8	2.51
(1,254)	1:33:D:ILE:HG22	1:38:D:LEU:HB3	8	2.51
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB2	8	2.51
(1,254)	1:33:D:ILE:HG23	1:38:D:LEU:HB3	8	2.51
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	18	2.5
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	1	2.5
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	1	2.5
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	1	2.5
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	1	2.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	1	2.5
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	1	2.5
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG21	1	2.5
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG22	1	2.5
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG23	1	2.5
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	18	2.5
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	1	2.5
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	1	2.5
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	1	2.5
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	1	2.5
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	1	2.5
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	1	2.5
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG21	1	2.5
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG22	1	2.5
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG23	1	2.5
(1,812)	1:35:D:ILE:HD12	2:100:A:A2Y:H663	3	2.49
(1,811)	1:35:D:ILE:HD12	2:100:A:A2Y:H663	3	2.49
(1,810)	1:35:D:ILE:HD12	2:100:A:A2Y:H663	3	2.49
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	8	2.49
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	8	2.49
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	8	2.49
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	8	2.49
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	8	2.49
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	8	2.49
(1,769)	1:37:C:HIS:H	2:100:A:A2Y:H683	16	2.48
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	6	2.48
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	6	2.48
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	6	2.48
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	6	2.48
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	6	2.48
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	6	2.48
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG21	4	2.47
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG22	4	2.47
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG23	4	2.47
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG21	4	2.47
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG22	4	2.47
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG23	4	2.47
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	13	2.46
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	13	2.46
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	13	2.46
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	13	2.46
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	9	2.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	9	2.45
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	9	2.45
(1,769)	1:37:C:HIS:H	2:100:A:A2Y:H683	7	2.45
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG21	6	2.45
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG22	6	2.45
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG23	6	2.45
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG21	6	2.45
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG22	6	2.45
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG23	6	2.45
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H683	1	2.44
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H683	1	2.44
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H683	1	2.44
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	2	2.44
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	2	2.44
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	20	2.44
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	5	2.44
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	5	2.44
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	5	2.44
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	2	2.44
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	2	2.44
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	20	2.44
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	5	2.44
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	5	2.44
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	5	2.44
(1,809)	1:35:C:ILE:HD12	2:100:A:A2Y:H663	2	2.43
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	4	2.42
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	4	2.42
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	12	2.42
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	8	2.42
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	8	2.42
(1,468)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	8	2.42
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	8	2.42
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	8	2.42
(1,468)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	8	2.42
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	4	2.42
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	4	2.42
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	12	2.42
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD21	8	2.42
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD22	8	2.42
(1,278)	1:36:D:LEU:HB2	1:38:D:LEU:HD23	8	2.42
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD21	8	2.42
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD22	8	2.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:36:D:LEU:HB3	1:38:D:LEU:HD23	8	2.42
(1,805)	1:31:C:ASN:HA	2:100:A:A2Y:H683	17	2.41
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	5	2.41
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	5	2.41
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	11	2.41
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	5	2.41
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	5	2.41
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	11	2.41
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	7	2.4
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	8	2.4
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	8	2.4
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	8	2.4
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	7	2.4
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	8	2.4
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	8	2.4
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	8	2.4
(1,809)	1:35:C:ILE:HD12	2:100:A:A2Y:H663	3	2.39
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	6	2.39
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	6	2.39
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	4	2.39
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	4	2.39
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	4	2.39
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	6	2.39
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	6	2.39
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	4	2.39
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	4	2.39
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	4	2.39
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	2	2.38
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	16	2.38
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	17	2.38
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	1	2.38
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	1	2.38
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	1	2.38
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	9	2.38
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	9	2.38
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	9	2.38
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	2	2.38
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	16	2.38
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	17	2.38
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	1	2.38
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	1	2.38
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	1	2.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	9	2.38
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	9	2.38
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	9	2.38
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	19	2.37
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	10	2.37
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	10	2.37
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	10	2.37
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	12	2.37
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	12	2.37
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	12	2.37
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	19	2.37
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	10	2.37
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	10	2.37
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	10	2.37
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	12	2.37
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	12	2.37
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	12	2.37
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H663	14	2.36
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H663	14	2.36
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H663	14	2.36
(1,761)	1:32:C:ILE:H	2:100:A:A2Y:H663	15	2.36
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	6	2.36
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	10	2.36
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	15	2.36
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	2	2.36
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	2	2.36
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	2	2.36
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	17	2.36
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	17	2.36
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	17	2.36
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	6	2.36
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	10	2.36
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	15	2.36
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	2	2.36
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	2	2.36
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	2	2.36
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	17	2.36
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	17	2.36
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	17	2.36
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	15	2.35
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	15	2.35
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	15	2.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	18	2.35
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	18	2.35
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	18	2.35
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	20	2.35
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	20	2.35
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	20	2.35
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	15	2.35
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	15	2.35
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	15	2.35
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	18	2.35
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	18	2.35
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	18	2.35
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	20	2.35
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	20	2.35
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	20	2.35
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	9	2.34
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	9	2.34
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	6	2.34
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	6	2.34
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	6	2.34
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	9	2.34
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	9	2.34
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	6	2.34
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	6	2.34
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	6	2.34
(1,812)	1:35:D:ILE:HD12	2:100:A:A2Y:H663	5	2.33
(1,811)	1:35:D:ILE:HD12	2:100:A:A2Y:H663	5	2.33
(1,810)	1:35:D:ILE:HD12	2:100:A:A2Y:H663	5	2.33
(1,765)	1:34:C:GLY:H	2:100:A:A2Y:H683	10	2.33
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	13	2.33
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	3	2.33
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	3	2.33
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	3	2.33
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	13	2.33
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	3	2.33
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	3	2.33
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	3	2.33
(1,769)	1:37:C:HIS:H	2:100:A:A2Y:H683	14	2.32
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	18	2.32
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	18	2.32
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	16	2.32
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	16	2.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	16	2.32
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	19	2.32
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	19	2.32
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	19	2.32
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	18	2.32
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	18	2.32
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	16	2.32
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	16	2.32
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	16	2.32
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	19	2.32
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	19	2.32
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	19	2.32
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H663	4	2.31
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H663	4	2.31
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H663	4	2.31
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	13	2.31
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	13	2.31
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	13	2.31
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	13	2.31
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	13	2.31
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	13	2.31
(1,483)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	8	2.3
(1,293)	1:37:D:HIS:HE1	1:41:D:TRP:HE3	8	2.3
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH21	10	2.29
(1,538)	1:44:D:ASP:H	1:45:D:ARG:HH22	10	2.29
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD11	11	2.29
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD12	11	2.29
(1,471)	1:37:D:HIS:HA	1:38:D:LEU:HD13	11	2.29
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH21	10	2.29
(1,348)	1:44:D:ASP:H	1:45:D:ARG:HH22	10	2.29
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD11	11	2.29
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD12	11	2.29
(1,281)	1:37:D:HIS:HA	1:38:D:LEU:HD13	11	2.29
(1,439)	1:33:D:ILE:HD11	1:35:D:ILE:HA	11	2.28
(1,439)	1:33:D:ILE:HD12	1:35:D:ILE:HA	11	2.28
(1,439)	1:33:D:ILE:HD13	1:35:D:ILE:HA	11	2.28
(1,249)	1:33:D:ILE:HD11	1:35:D:ILE:HA	11	2.28
(1,249)	1:33:D:ILE:HD12	1:35:D:ILE:HA	11	2.28
(1,249)	1:33:D:ILE:HD13	1:35:D:ILE:HA	11	2.28
(1,805)	1:31:C:ASN:HA	2:100:A:A2Y:H683	20	2.25
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	17	2.24
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	17	2.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	17	2.24
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	18	2.24
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	18	2.24
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	18	2.24
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG21	11	2.24
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG22	11	2.24
(1,440)	1:33:D:ILE:HD11	1:35:D:ILE:HG23	11	2.24
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	17	2.24
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	17	2.24
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	17	2.24
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	18	2.24
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	18	2.24
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	18	2.24
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG21	11	2.24
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG22	11	2.24
(1,250)	1:33:D:ILE:HD11	1:35:D:ILE:HG23	11	2.24
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	20	2.23
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	20	2.23
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	20	2.23
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	20	2.23
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	20	2.23
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	20	2.23
(1,768)	1:34:D:GLY:H	2:100:A:A2Y:H683	12	2.22
(1,767)	1:34:D:GLY:H	2:100:A:A2Y:H683	12	2.22
(1,766)	1:34:D:GLY:H	2:100:A:A2Y:H683	12	2.22
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	9	2.22
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	9	2.22
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	9	2.22
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	12	2.22
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	12	2.22
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	12	2.22
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	15	2.22
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	15	2.22
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	15	2.22
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	9	2.22
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	9	2.22
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	9	2.22
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	12	2.22
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	12	2.22
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	12	2.22
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	15	2.22
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	15	2.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	15	2.22
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	10	2.2
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	10	2.2
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	10	2.2
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	10	2.2
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	10	2.2
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	10	2.2
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	2	2.19
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	2	2.19
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	2	2.19
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	2	2.19
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	2	2.19
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	2	2.19
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	5	2.18
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	5	2.18
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	5	2.18
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	5	2.18
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	5	2.18
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	5	2.18
(1,812)	1:35:D:ILE:HD13	2:100:A:A2Y:H663	17	2.17
(1,811)	1:35:D:ILE:HD13	2:100:A:A2Y:H663	17	2.17
(1,810)	1:35:D:ILE:HD13	2:100:A:A2Y:H663	17	2.17
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG21	8	2.16
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG22	8	2.16
(1,440)	1:33:D:ILE:HD12	1:35:D:ILE:HG23	8	2.16
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG21	8	2.16
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG22	8	2.16
(1,250)	1:33:D:ILE:HD12	1:35:D:ILE:HG23	8	2.16
(1,765)	1:34:C:GLY:H	2:100:A:A2Y:H663	15	2.15
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	7	2.15
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	7	2.15
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	7	2.15
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	7	2.15
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	7	2.15
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	7	2.15
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	13	2.13
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	13	2.13
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	13	2.13
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	16	2.13
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	16	2.13
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	16	2.13
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	13	2.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	13	2.13
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	13	2.13
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	16	2.13
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	16	2.13
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	16	2.13
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H683	19	2.12
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H683	19	2.12
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H683	19	2.12
(1,765)	1:34:C:GLY:H	2:100:A:A2Y:H683	6	2.1
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	6	2.1
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	6	2.1
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	6	2.1
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	6	2.1
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	6	2.1
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	6	2.1
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	1	2.09
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	1	2.09
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	1	2.09
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	1	2.09
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	1	2.09
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	1	2.09
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	11	2.08
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	11	2.08
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	11	2.08
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	11	2.08
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	11	2.08
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	11	2.08
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	19	2.07
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	19	2.07
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	19	2.07
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	19	2.07
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	19	2.07
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	19	2.07
(1,769)	1:37:C:HIS:H	2:100:A:A2Y:H683	10	2.03
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	14	2.03
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	14	2.03
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	14	2.03
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	14	2.03
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	14	2.03
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	14	2.03
(1,812)	1:35:D:ILE:HD11	2:100:A:A2Y:H663	9	2.02
(1,811)	1:35:D:ILE:HD11	2:100:A:A2Y:H663	9	2.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,810)	1:35:D:ILE:HD11	2:100:A:A2Y:H663	9	2.02
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	13	2.01
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	13	2.01
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	13	2.01
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	13	2.01
(1,817)	1:30:C:ALA:HB3	2:100:A:A2Y:H663	7	2.0
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H663	14	2.0
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H663	14	2.0
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H663	14	2.0
(1,761)	1:32:C:ILE:H	2:100:A:A2Y:H683	17	1.99
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	17	1.98
(1,761)	1:32:C:ILE:H	2:100:A:A2Y:H683	20	1.98
(1,809)	1:35:C:ILE:HD12	2:100:A:A2Y:H663	12	1.96
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH11	3	1.96
(1,537)	1:44:D:ASP:H	1:45:D:ARG:HH12	3	1.96
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH11	3	1.96
(1,347)	1:44:D:ASP:H	1:45:D:ARG:HH12	3	1.96
(1,809)	1:35:C:ILE:HD11	2:100:A:A2Y:H663	13	1.92
(1,805)	1:31:C:ASN:HA	2:100:A:A2Y:H663	15	1.92
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	3	1.91
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	3	1.91
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	4	1.9
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	4	1.9
(1,772)	1:37:D:HIS:H	2:100:A:A2Y:H683	12	1.89
(1,771)	1:37:D:HIS:H	2:100:A:A2Y:H683	12	1.89
(1,770)	1:37:D:HIS:H	2:100:A:A2Y:H683	12	1.89
(1,768)	1:34:D:GLY:H	2:100:A:A2Y:H683	4	1.89
(1,767)	1:34:D:GLY:H	2:100:A:A2Y:H683	4	1.89
(1,766)	1:34:D:GLY:H	2:100:A:A2Y:H683	4	1.89
(1,769)	1:37:C:HIS:H	2:100:A:A2Y:H683	6	1.88
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	14	1.87
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	14	1.87
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	11	1.85
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	11	1.85
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	11	1.85
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	11	1.85
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	11	1.85
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	11	1.85
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	13	1.84
(1,809)	1:35:C:ILE:HD11	2:100:A:A2Y:H663	4	1.84
(1,761)	1:32:C:ILE:H	2:100:A:A2Y:H663	11	1.83
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H663	4	1.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H663	4	1.82
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H663	4	1.82
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H663	6	1.81
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H663	6	1.81
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H663	6	1.81
(1,820)	1:30:D:ALA:HB2	2:100:A:A2Y:H663	13	1.78
(1,819)	1:30:D:ALA:HB2	2:100:A:A2Y:H663	13	1.78
(1,818)	1:30:D:ALA:HB2	2:100:A:A2Y:H663	13	1.78
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	16	1.78
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	16	1.78
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	16	1.78
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H683	16	1.77
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H683	16	1.77
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H683	16	1.77
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H663	3	1.76
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H663	3	1.76
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H663	3	1.76
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	5	1.75
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	5	1.75
(1,820)	1:30:D:ALA:HB2	2:100:A:A2Y:H663	4	1.75
(1,819)	1:30:D:ALA:HB2	2:100:A:A2Y:H663	4	1.75
(1,818)	1:30:D:ALA:HB2	2:100:A:A2Y:H663	4	1.75
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	19	1.75
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	19	1.75
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	19	1.75
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	19	1.75
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	19	1.75
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	19	1.75
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	12	1.74
(1,769)	1:37:C:HIS:H	2:100:A:A2Y:H683	15	1.74
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	18	1.74
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	18	1.74
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	18	1.74
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	18	1.74
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	18	1.74
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	18	1.74
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	14	1.73
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	14	1.73
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	14	1.73
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	16	1.73
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	16	1.73
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	16	1.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	16	1.73
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	16	1.73
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	16	1.73
(1,768)	1:34:D:GLY:H	2:100:A:A2Y:H683	13	1.72
(1,767)	1:34:D:GLY:H	2:100:A:A2Y:H683	13	1.72
(1,766)	1:34:D:GLY:H	2:100:A:A2Y:H683	13	1.72
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	9	1.71
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	9	1.71
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	13	1.71
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	13	1.71
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	13	1.71
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	13	1.71
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	13	1.71
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	13	1.71
(1,761)	1:32:C:ILE:H	2:100:A:A2Y:H663	8	1.7
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	1	1.7
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	1	1.7
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	1	1.7
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	9	1.7
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	9	1.7
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	9	1.7
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	15	1.7
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	15	1.7
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	15	1.7
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	1	1.7
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	1	1.7
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	1	1.7
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	9	1.7
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	9	1.7
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	9	1.7
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	15	1.7
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	15	1.7
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	15	1.7
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	3	1.69
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	3	1.69
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	3	1.69
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	17	1.69
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	17	1.69
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	17	1.69
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	3	1.69
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	3	1.69
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	3	1.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	17	1.69
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	17	1.69
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	17	1.69
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	2	1.68
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	2	1.68
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	2	1.68
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	2	1.68
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	2	1.68
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	2	1.68
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	6	1.67
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	6	1.67
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	6	1.67
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	12	1.67
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	12	1.67
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	12	1.67
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	6	1.67
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	6	1.67
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	6	1.67
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	12	1.67
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	12	1.67
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	12	1.67
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	1	1.66
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	1	1.66
(1,817)	1:30:C:ALA:HB1	2:100:A:A2Y:H663	1	1.66
(1,765)	1:34:C:GLY:H	2:100:A:A2Y:H683	1	1.66
(1,765)	1:34:C:GLY:H	2:100:A:A2Y:H683	19	1.66
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	10	1.66
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	10	1.66
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	10	1.66
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	20	1.66
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	20	1.66
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	20	1.66
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	10	1.66
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	10	1.66
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	10	1.66
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	20	1.66
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	20	1.66
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	20	1.66
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	5	1.65
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	5	1.65
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	5	1.65
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	5	1.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	5	1.65
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	5	1.65
(1,820)	1:30:D:ALA:HB2	2:100:A:A2Y:H663	12	1.64
(1,819)	1:30:D:ALA:HB2	2:100:A:A2Y:H663	12	1.64
(1,818)	1:30:D:ALA:HB2	2:100:A:A2Y:H663	12	1.64
(1,772)	1:37:D:HIS:H	2:100:A:A2Y:H683	4	1.61
(1,771)	1:37:D:HIS:H	2:100:A:A2Y:H683	4	1.61
(1,770)	1:37:D:HIS:H	2:100:A:A2Y:H683	4	1.61
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	9	1.59
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	14	1.59
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	15	1.59
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	17	1.59
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	18	1.59
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	20	1.59
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	9	1.59
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	14	1.59
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	15	1.59
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	17	1.59
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	18	1.59
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	20	1.59
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	1	1.58
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	2	1.58
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	3	1.58
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	4	1.58
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	5	1.58
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	6	1.58
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	7	1.58
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	8	1.58
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	10	1.58
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	11	1.58
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	12	1.58
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	13	1.58
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	16	1.58
(1,855)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	19	1.58
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	1	1.58
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	2	1.58
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	3	1.58
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	4	1.58
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	5	1.58
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	6	1.58
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	7	1.58
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	8	1.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	10	1.58
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	11	1.58
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	12	1.58
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	13	1.58
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	16	1.58
(1,854)	1:41:D:TRP:HD1	1:41:D:TRP:HZ2	19	1.58
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H663	18	1.58
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H663	18	1.58
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H663	18	1.58
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	18	1.56
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	18	1.56
(1,765)	1:34:C:GLY:H	2:100:A:A2Y:H683	18	1.56
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	7	1.55
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	7	1.55
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	7	1.55
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	7	1.55
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	7	1.55
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	7	1.55
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	11	1.53
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	11	1.53
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	14	1.53
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	14	1.53
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	14	1.53
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	14	1.53
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	14	1.53
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	14	1.53
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	7	1.52
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	7	1.52
(1,817)	1:30:C:ALA:HB1	2:100:A:A2Y:H663	10	1.51
(1,769)	1:37:C:HIS:H	2:100:A:A2Y:H683	19	1.5
(1,805)	1:31:C:ASN:HA	2:100:A:A2Y:H663	11	1.49
(1,768)	1:34:D:GLY:H	2:100:A:A2Y:H683	15	1.49
(1,767)	1:34:D:GLY:H	2:100:A:A2Y:H683	15	1.49
(1,766)	1:34:D:GLY:H	2:100:A:A2Y:H683	15	1.49
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	7	1.47
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	7	1.47
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	7	1.47
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	8	1.47
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	8	1.47
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	8	1.47
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	7	1.47
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	7	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	7	1.47
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	8	1.47
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	8	1.47
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	8	1.47
(1,817)	1:30:C:ALA:HB1	2:100:A:A2Y:H663	19	1.46
(1,768)	1:34:D:GLY:H	2:100:A:A2Y:H663	3	1.46
(1,767)	1:34:D:GLY:H	2:100:A:A2Y:H663	3	1.46
(1,766)	1:34:D:GLY:H	2:100:A:A2Y:H663	3	1.46
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	12	1.45
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	12	1.45
(1,817)	1:30:C:ALA:HB1	2:100:A:A2Y:H663	16	1.44
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	14	1.44
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	14	1.44
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	14	1.44
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	14	1.44
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	14	1.44
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	14	1.44
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	4	1.43
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	4	1.43
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	4	1.43
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	4	1.43
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	4	1.43
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	4	1.43
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	16	1.42
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	16	1.42
(1,768)	1:34:D:GLY:H	2:100:A:A2Y:H683	11	1.42
(1,767)	1:34:D:GLY:H	2:100:A:A2Y:H683	11	1.42
(1,766)	1:34:D:GLY:H	2:100:A:A2Y:H683	11	1.42
(1,765)	1:34:C:GLY:H	2:100:A:A2Y:H663	11	1.42
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	7	1.42
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	7	1.42
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	7	1.42
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	7	1.42
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	7	1.42
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	7	1.42
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	7	1.42
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	7	1.42
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	7	1.42
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	7	1.42
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	7	1.42
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	7	1.42
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	19	1.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	19	1.41
(1,772)	1:37:D:HIS:H	2:100:A:A2Y:H683	11	1.41
(1,771)	1:37:D:HIS:H	2:100:A:A2Y:H683	11	1.41
(1,770)	1:37:D:HIS:H	2:100:A:A2Y:H683	11	1.41
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	20	1.4
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	20	1.4
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	3	1.4
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	3	1.4
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	3	1.4
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	14	1.4
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	14	1.4
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	14	1.4
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	14	1.4
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	14	1.4
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	14	1.4
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	3	1.4
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	3	1.4
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	3	1.4
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	14	1.4
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	14	1.4
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	14	1.4
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	14	1.4
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	14	1.4
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	14	1.4
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	10	1.39
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	10	1.39
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	8	1.39
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	2	1.38
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	2	1.38
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	17	1.37
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	17	1.37
(1,772)	1:37:D:HIS:H	2:100:A:A2Y:H683	9	1.37
(1,771)	1:37:D:HIS:H	2:100:A:A2Y:H683	9	1.37
(1,770)	1:37:D:HIS:H	2:100:A:A2Y:H683	9	1.37
(1,768)	1:34:D:GLY:H	2:100:A:A2Y:H663	2	1.37
(1,767)	1:34:D:GLY:H	2:100:A:A2Y:H663	2	1.37
(1,766)	1:34:D:GLY:H	2:100:A:A2Y:H663	2	1.37
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H663	2	1.37
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H663	2	1.37
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H663	2	1.37
(1,441)	1:33:D:ILE:HG21	1:35:D:ILE:HA	4	1.37
(1,441)	1:33:D:ILE:HG22	1:35:D:ILE:HA	4	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,441)	1:33:D:ILE:HG23	1:35:D:ILE:HA	4	1.37
(1,251)	1:33:D:ILE:HG21	1:35:D:ILE:HA	4	1.37
(1,251)	1:33:D:ILE:HG22	1:35:D:ILE:HA	4	1.37
(1,251)	1:33:D:ILE:HG23	1:35:D:ILE:HA	4	1.37
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	8	1.36
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	15	1.36
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	8	1.36
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	15	1.36
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	6	1.34
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	6	1.34
(1,769)	1:37:C:HIS:H	2:100:A:A2Y:H683	11	1.33
(1,768)	1:34:D:GLY:H	2:100:A:A2Y:H663	5	1.31
(1,767)	1:34:D:GLY:H	2:100:A:A2Y:H663	5	1.31
(1,766)	1:34:D:GLY:H	2:100:A:A2Y:H663	5	1.31
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	2	1.31
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	2	1.31
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	2	1.31
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	5	1.31
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	5	1.31
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	5	1.31
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	17	1.31
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	17	1.31
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	17	1.31
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	2	1.31
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	2	1.31
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	2	1.31
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	5	1.31
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	5	1.31
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	5	1.31
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	17	1.31
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	17	1.31
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	17	1.31
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	6	1.3
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	6	1.3
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	6	1.3
(1,768)	1:34:D:GLY:H	2:100:A:A2Y:H683	7	1.3
(1,767)	1:34:D:GLY:H	2:100:A:A2Y:H683	7	1.3
(1,766)	1:34:D:GLY:H	2:100:A:A2Y:H683	7	1.3
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	9	1.3
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	9	1.3
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	9	1.3
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	10	1.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	10	1.3
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	10	1.3
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	12	1.3
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	12	1.3
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	12	1.3
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	20	1.3
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	20	1.3
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	20	1.3
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	9	1.3
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	9	1.3
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	9	1.3
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	10	1.3
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	10	1.3
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	10	1.3
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	12	1.3
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	12	1.3
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	12	1.3
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	20	1.3
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	20	1.3
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	20	1.3
(1,839)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	13	1.29
(1,838)	1:37:D:HIS:HD2	1:41:D:TRP:HZ3	13	1.29
(1,769)	1:37:C:HIS:H	2:100:A:A2Y:H683	1	1.29
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	6	1.29
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	6	1.29
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	6	1.29
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	15	1.29
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	15	1.29
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	15	1.29
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	16	1.29
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	16	1.29
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	16	1.29
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	6	1.29
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	6	1.29
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	6	1.29
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	15	1.29
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	15	1.29
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	15	1.29
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	16	1.29
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	16	1.29
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	16	1.29
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	1	1.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	1	1.28
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	1	1.28
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	1	1.28
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	1	1.28
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	1	1.28
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	13	1.27
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	13	1.27
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	13	1.27
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	18	1.27
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	18	1.27
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	18	1.27
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	19	1.27
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	19	1.27
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	19	1.27
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	13	1.27
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	13	1.27
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	13	1.27
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	18	1.27
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	18	1.27
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	18	1.27
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	19	1.27
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	19	1.27
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	19	1.27
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H663	3	1.26
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H663	3	1.26
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H663	3	1.26
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H663	6	1.26
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H663	6	1.26
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H663	6	1.26
(1,772)	1:37:D:HIS:H	2:100:A:A2Y:H683	13	1.25
(1,771)	1:37:D:HIS:H	2:100:A:A2Y:H683	13	1.25
(1,770)	1:37:D:HIS:H	2:100:A:A2Y:H683	13	1.25
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	4	1.25
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	4	1.25
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	4	1.25
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	4	1.25
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	4	1.25
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	4	1.25
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	4	1.25
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	4	1.25
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	4	1.25
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	4	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	4	1.25
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	4	1.25
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	11	1.24
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	11	1.24
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	11	1.24
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	11	1.24
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	11	1.24
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	11	1.24
(1,817)	1:30:C:ALA:HB2	2:100:A:A2Y:H663	15	1.23
(1,772)	1:37:D:HIS:H	2:100:A:A2Y:H683	15	1.23
(1,771)	1:37:D:HIS:H	2:100:A:A2Y:H683	15	1.23
(1,770)	1:37:D:HIS:H	2:100:A:A2Y:H683	15	1.23
(1,768)	1:34:D:GLY:H	2:100:A:A2Y:H683	14	1.22
(1,767)	1:34:D:GLY:H	2:100:A:A2Y:H683	14	1.22
(1,766)	1:34:D:GLY:H	2:100:A:A2Y:H683	14	1.22
(1,817)	1:30:C:ALA:HB3	2:100:A:A2Y:H663	14	1.21
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	4	1.21
(1,768)	1:34:D:GLY:H	2:100:A:A2Y:H683	10	1.19
(1,767)	1:34:D:GLY:H	2:100:A:A2Y:H683	10	1.19
(1,766)	1:34:D:GLY:H	2:100:A:A2Y:H683	10	1.19
(1,812)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	8	1.18
(1,811)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	8	1.18
(1,810)	1:35:D:ILE:HD12	2:100:A:A2Y:H683	8	1.18
(1,772)	1:37:D:HIS:H	2:100:A:A2Y:H683	10	1.17
(1,771)	1:37:D:HIS:H	2:100:A:A2Y:H683	10	1.17
(1,770)	1:37:D:HIS:H	2:100:A:A2Y:H683	10	1.17
(1,772)	1:37:D:HIS:H	2:100:A:A2Y:H683	2	1.16
(1,771)	1:37:D:HIS:H	2:100:A:A2Y:H683	2	1.16
(1,770)	1:37:D:HIS:H	2:100:A:A2Y:H683	2	1.16
(1,754)	1:48:D:PHE:H	1:48:D:PHE:HD2	4	1.16
(1,754)	1:48:D:PHE:H	1:48:D:PHE:HD2	10	1.16
(1,754)	1:48:D:PHE:H	1:48:D:PHE:HD2	17	1.16
(1,564)	1:48:D:PHE:H	1:48:D:PHE:HD2	4	1.16
(1,564)	1:48:D:PHE:H	1:48:D:PHE:HD2	10	1.16
(1,564)	1:48:D:PHE:H	1:48:D:PHE:HD2	17	1.16
(1,374)	1:48:D:PHE:H	1:48:D:PHE:HD2	4	1.16
(1,374)	1:48:D:PHE:H	1:48:D:PHE:HD2	10	1.16
(1,374)	1:48:D:PHE:H	1:48:D:PHE:HD2	17	1.16
(1,184)	1:48:C:PHE:H	1:48:C:PHE:HD2	4	1.16
(1,184)	1:48:C:PHE:H	1:48:C:PHE:HD2	10	1.16
(1,184)	1:48:C:PHE:H	1:48:C:PHE:HD2	12	1.16
(1,184)	1:48:C:PHE:H	1:48:C:PHE:HD2	17	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,754)	1:48:D:PHE:H	1:48:D:PHE:HD2	12	1.15
(1,564)	1:48:D:PHE:H	1:48:D:PHE:HD2	12	1.15
(1,374)	1:48:D:PHE:H	1:48:D:PHE:HD2	12	1.15
(1,769)	1:37:C:HIS:H	2:100:A:A2Y:H683	18	1.13
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD21	8	1.13
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD22	8	1.13
(1,477)	1:37:D:HIS:H	1:38:D:LEU:HD23	8	1.13
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	5	1.13
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	5	1.13
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	5	1.13
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	5	1.13
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	5	1.13
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	5	1.13
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD21	8	1.13
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD22	8	1.13
(1,287)	1:37:D:HIS:H	1:38:D:LEU:HD23	8	1.13
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	5	1.13
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	5	1.13
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	5	1.13
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	5	1.13
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	5	1.13
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	5	1.13
(1,772)	1:37:D:HIS:H	2:100:A:A2Y:H683	5	1.12
(1,771)	1:37:D:HIS:H	2:100:A:A2Y:H683	5	1.12
(1,770)	1:37:D:HIS:H	2:100:A:A2Y:H683	5	1.12
(1,754)	1:48:D:PHE:H	1:48:D:PHE:HD2	20	1.12
(1,564)	1:48:D:PHE:H	1:48:D:PHE:HD2	20	1.12
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	3	1.12
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	3	1.12
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	3	1.12
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	3	1.12
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	3	1.12
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	3	1.12
(1,374)	1:48:D:PHE:H	1:48:D:PHE:HD2	20	1.12
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	3	1.12
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	3	1.12
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	3	1.12
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	3	1.12
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	3	1.12
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	3	1.12
(1,184)	1:48:C:PHE:H	1:48:C:PHE:HD2	20	1.12
(1,772)	1:37:D:HIS:H	2:100:A:A2Y:H683	14	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,771)	1:37:D:HIS:H	2:100:A:A2Y:H683	14	1.1
(1,770)	1:37:D:HIS:H	2:100:A:A2Y:H683	14	1.1
(1,820)	1:30:D:ALA:HB1	2:100:A:A2Y:H663	11	1.09
(1,819)	1:30:D:ALA:HB1	2:100:A:A2Y:H663	11	1.09
(1,818)	1:30:D:ALA:HB1	2:100:A:A2Y:H663	11	1.09
(1,772)	1:37:D:HIS:H	2:100:A:A2Y:H683	7	1.09
(1,771)	1:37:D:HIS:H	2:100:A:A2Y:H683	7	1.09
(1,770)	1:37:D:HIS:H	2:100:A:A2Y:H683	7	1.09
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	1	1.05
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	1	1.05
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	1	1.05
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	1	1.05
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	1	1.05
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	1	1.05
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	20	1.05
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	20	1.05
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	20	1.05
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	20	1.05
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	20	1.05
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	20	1.05
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	1	1.05
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	1	1.05
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	1	1.05
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	1	1.05
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	1	1.05
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	1	1.05
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	20	1.05
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	20	1.05
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	20	1.05
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	20	1.05
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	20	1.05
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	20	1.05
(1,817)	1:30:C:ALA:HB2	2:100:A:A2Y:H663	6	1.03
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	6	1.02
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	6	1.02
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	6	1.02
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	6	1.02
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	6	1.02
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	6	1.02
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	6	1.02
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	6	1.02
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	6	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	6	1.02
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	6	1.02
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	6	1.02
(1,820)	1:30:D:ALA:HB2	2:100:A:A2Y:H683	15	0.99
(1,819)	1:30:D:ALA:HB2	2:100:A:A2Y:H683	15	0.99
(1,818)	1:30:D:ALA:HB2	2:100:A:A2Y:H683	15	0.99
(1,772)	1:37:D:HIS:H	2:100:A:A2Y:H683	3	0.99
(1,771)	1:37:D:HIS:H	2:100:A:A2Y:H683	3	0.99
(1,770)	1:37:D:HIS:H	2:100:A:A2Y:H683	3	0.99
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	15	0.99
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	15	0.99
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	15	0.99
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	15	0.99
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	15	0.99
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	15	0.99
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	15	0.99
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	15	0.99
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	15	0.99
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	15	0.99
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	15	0.99
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	15	0.99
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H663	5	0.98
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H663	5	0.98
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H663	5	0.98
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	2	0.98
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	2	0.98
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	2	0.98
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	2	0.98
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	2	0.98
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	2	0.98
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	10	0.98
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	10	0.98
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	10	0.98
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	10	0.98
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	10	0.98
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	10	0.98
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	12	0.98
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	12	0.98
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	12	0.98
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	12	0.98
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	12	0.98
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	12	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	2	0.98
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	2	0.98
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	2	0.98
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	2	0.98
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	2	0.98
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	2	0.98
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	10	0.98
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	10	0.98
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	10	0.98
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	10	0.98
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	10	0.98
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	10	0.98
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	12	0.98
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	12	0.98
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	12	0.98
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	12	0.98
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	12	0.98
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	12	0.98
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	17	0.97
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	17	0.97
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	17	0.97
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	17	0.97
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	17	0.97
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	17	0.97
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	17	0.97
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	17	0.97
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	17	0.97
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	17	0.97
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	17	0.97
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	17	0.97
(1,754)	1:48:D:PHE:H	1:48:D:PHE:HD2	6	0.96
(1,564)	1:48:D:PHE:H	1:48:D:PHE:HD2	6	0.96
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	9	0.96
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	9	0.96
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	9	0.96
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	9	0.96
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	9	0.96
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	9	0.96
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	18	0.96
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	18	0.96
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	18	0.96
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	18	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	18	0.96
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	18	0.96
(1,374)	1:48:D:PHE:H	1:48:D:PHE:HD2	6	0.96
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	9	0.96
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	9	0.96
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	9	0.96
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	9	0.96
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	9	0.96
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	9	0.96
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	18	0.96
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	18	0.96
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	18	0.96
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	18	0.96
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	18	0.96
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	18	0.96
(1,184)	1:48:C:PHE:H	1:48:C:PHE:HD2	6	0.96
(1,754)	1:48:D:PHE:H	1:48:D:PHE:HD2	1	0.94
(1,564)	1:48:D:PHE:H	1:48:D:PHE:HD2	1	0.94
(1,374)	1:48:D:PHE:H	1:48:D:PHE:HD2	1	0.94
(1,184)	1:48:C:PHE:H	1:48:C:PHE:HD2	1	0.94
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	8	0.91
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	8	0.91
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	8	0.91
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	8	0.91
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	8	0.91
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	8	0.91
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	13	0.91
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	13	0.91
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	13	0.91
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	13	0.91
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	13	0.91
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	13	0.91
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	8	0.91
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	8	0.91
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	8	0.91
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	8	0.91
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	8	0.91
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	8	0.91
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	13	0.91
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	13	0.91
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	13	0.91
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	13	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	13	0.91
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	13	0.91
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H663	2	0.89
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H663	2	0.89
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H663	2	0.89
(1,769)	1:37:C:HIS:H	2:100:A:A2Y:H683	12	0.89
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	16	0.88
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	16	0.88
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	16	0.88
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	16	0.88
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	16	0.88
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	16	0.88
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	16	0.88
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	16	0.88
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	16	0.88
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	16	0.88
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	16	0.88
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	16	0.88
(1,820)	1:30:D:ALA:HB2	2:100:A:A2Y:H663	3	0.87
(1,819)	1:30:D:ALA:HB2	2:100:A:A2Y:H663	3	0.87
(1,818)	1:30:D:ALA:HB2	2:100:A:A2Y:H663	3	0.87
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H663	18	0.85
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H663	18	0.85
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H663	18	0.85
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	19	0.85
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	19	0.85
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	19	0.85
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	19	0.85
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	19	0.85
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	19	0.85
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	19	0.85
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	19	0.85
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	19	0.85
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	19	0.85
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	19	0.85
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	19	0.85
(1,769)	1:37:C:HIS:H	2:100:A:A2Y:H663	4	0.82
(1,820)	1:30:D:ALA:HB1	2:100:A:A2Y:H663	5	0.8
(1,819)	1:30:D:ALA:HB1	2:100:A:A2Y:H663	5	0.8
(1,818)	1:30:D:ALA:HB1	2:100:A:A2Y:H663	5	0.8
(1,443)	1:33:D:ILE:HG21	1:38:D:LEU:HG	8	0.8
(1,443)	1:33:D:ILE:HG22	1:38:D:LEU:HG	8	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,443)	1:33:D:ILE:HG23	1:38:D:LEU:HG	8	0.8
(1,253)	1:33:D:ILE:HG21	1:38:D:LEU:HG	8	0.8
(1,253)	1:33:D:ILE:HG22	1:38:D:LEU:HG	8	0.8
(1,253)	1:33:D:ILE:HG23	1:38:D:LEU:HG	8	0.8
(1,817)	1:30:C:ALA:HB1	2:100:A:A2Y:H663	11	0.78
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	11	0.78
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	11	0.78
(1,467)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	11	0.78
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	11	0.78
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	11	0.78
(1,467)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	11	0.78
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD11	11	0.78
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD12	11	0.78
(1,277)	1:36:D:LEU:HB2	1:38:D:LEU:HD13	11	0.78
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD11	11	0.78
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD12	11	0.78
(1,277)	1:36:D:LEU:HB3	1:38:D:LEU:HD13	11	0.78
(1,764)	1:32:D:ILE:H	2:100:A:A2Y:H663	9	0.77
(1,763)	1:32:D:ILE:H	2:100:A:A2Y:H663	9	0.77
(1,762)	1:32:D:ILE:H	2:100:A:A2Y:H663	9	0.77
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	18	0.72
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	18	0.72
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	18	0.72
(1,820)	1:30:D:ALA:HB1	2:100:A:A2Y:H663	2	0.7
(1,819)	1:30:D:ALA:HB1	2:100:A:A2Y:H663	2	0.7
(1,818)	1:30:D:ALA:HB1	2:100:A:A2Y:H663	2	0.7
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	8	0.67
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	8	0.67
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	8	0.67
(1,816)	1:30:D:ALA:H	2:100:A:A2Y:H663	17	0.65
(1,815)	1:30:D:ALA:H	2:100:A:A2Y:H663	17	0.65
(1,814)	1:30:D:ALA:H	2:100:A:A2Y:H663	17	0.65
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	14	0.65
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	14	0.65
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	14	0.65
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	14	0.65
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	14	0.65
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	14	0.65
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	7	0.64
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	7	0.64
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	7	0.64
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	7	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	7	0.64
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	7	0.64
(1,768)	1:34:D:GLY:H	2:100:A:A2Y:H663	9	0.62
(1,767)	1:34:D:GLY:H	2:100:A:A2Y:H663	9	0.62
(1,766)	1:34:D:GLY:H	2:100:A:A2Y:H663	9	0.62
(1,820)	1:30:D:ALA:HB3	2:100:A:A2Y:H683	7	0.6
(1,819)	1:30:D:ALA:HB3	2:100:A:A2Y:H683	7	0.6
(1,818)	1:30:D:ALA:HB3	2:100:A:A2Y:H683	7	0.6
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	3	0.56
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	4	0.55
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	4	0.55
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	4	0.55
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	4	0.55
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	4	0.55
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	4	0.55
(1,805)	1:31:C:ASN:HA	2:100:A:A2Y:H663	9	0.54
(1,768)	1:34:D:GLY:H	2:100:A:A2Y:H683	1	0.52
(1,767)	1:34:D:GLY:H	2:100:A:A2Y:H683	1	0.52
(1,766)	1:34:D:GLY:H	2:100:A:A2Y:H683	1	0.52
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H663	5	0.51
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H663	5	0.51
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H663	5	0.51
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	9	0.5
(1,817)	1:30:C:ALA:HB3	2:100:A:A2Y:H663	18	0.49
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	3	0.45
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	3	0.45
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	3	0.45
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	3	0.45
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	3	0.45
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	3	0.45
(1,769)	1:37:C:HIS:H	2:100:A:A2Y:H683	20	0.37
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	8	0.34
(1,808)	1:31:D:ASN:HA	2:100:A:A2Y:H663	9	0.33
(1,807)	1:31:D:ASN:HA	2:100:A:A2Y:H663	9	0.33
(1,806)	1:31:D:ASN:HA	2:100:A:A2Y:H663	9	0.33
(1,479)	1:37:D:HIS:HB2	1:38:D:LEU:HD21	7	0.33
(1,479)	1:37:D:HIS:HB2	1:38:D:LEU:HD22	7	0.33
(1,479)	1:37:D:HIS:HB2	1:38:D:LEU:HD23	7	0.33
(1,479)	1:37:D:HIS:HB3	1:38:D:LEU:HD21	7	0.33
(1,479)	1:37:D:HIS:HB3	1:38:D:LEU:HD22	7	0.33
(1,479)	1:37:D:HIS:HB3	1:38:D:LEU:HD23	7	0.33
(1,289)	1:37:D:HIS:HB2	1:38:D:LEU:HD21	7	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:37:D:HIS:HB2	1:38:D:LEU:HD22	7	0.33
(1,289)	1:37:D:HIS:HB2	1:38:D:LEU:HD23	7	0.33
(1,289)	1:37:D:HIS:HB3	1:38:D:LEU:HD21	7	0.33
(1,289)	1:37:D:HIS:HB3	1:38:D:LEU:HD22	7	0.33
(1,289)	1:37:D:HIS:HB3	1:38:D:LEU:HD23	7	0.33
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	5	0.32
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	5	0.32
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	5	0.32
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	8	0.32
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	8	0.32
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	8	0.32
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	5	0.32
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	5	0.32
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	5	0.32
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	8	0.32
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	8	0.32
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	8	0.32
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	17	0.31
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	19	0.31
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	20	0.31
(1,765)	1:34:C:GLY:H	2:100:A:A2Y:H683	20	0.31
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	6	0.3
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	16	0.3
(1,772)	1:37:D:HIS:H	2:100:A:A2Y:H683	1	0.3
(1,771)	1:37:D:HIS:H	2:100:A:A2Y:H683	1	0.3
(1,770)	1:37:D:HIS:H	2:100:A:A2Y:H683	1	0.3
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD11	4	0.3
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD12	4	0.3
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD13	4	0.3
(1,593)	1:29:D:ALA:H	1:28:D:VAL:HB	17	0.3
(1,593)	1:29:D:ALA:H	1:28:D:VAL:HB	18	0.3
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD11	4	0.3
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD12	4	0.3
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD13	4	0.3
(1,403)	1:29:D:ALA:H	1:28:D:VAL:HB	17	0.3
(1,403)	1:29:D:ALA:H	1:28:D:VAL:HB	18	0.3
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD11	4	0.3
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD12	4	0.3
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD13	4	0.3
(1,213)	1:29:D:ALA:H	1:28:D:VAL:HB	17	0.3
(1,213)	1:29:D:ALA:H	1:28:D:VAL:HB	18	0.3
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD11	4	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD12	4	0.3
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD13	4	0.3
(1,23)	1:29:C:ALA:H	1:28:C:VAL:HB	17	0.3
(1,23)	1:29:C:ALA:H	1:28:C:VAL:HB	18	0.3
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	2	0.29
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	12	0.29
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	13	0.29
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD11	19	0.29
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD12	19	0.29
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD13	19	0.29
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD11	19	0.29
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD12	19	0.29
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD13	19	0.29
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD11	19	0.29
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD12	19	0.29
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD13	19	0.29
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD11	19	0.29
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD12	19	0.29
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD13	19	0.29
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	4	0.28
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	11	0.28
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	15	0.28
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	3	0.27
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	10	0.27
(1,800)	1:27:D:VAL:HG21	2:100:A:A2Y:H44	20	0.27
(1,800)	1:27:D:VAL:HG22	2:100:A:A2Y:H44	20	0.27
(1,800)	1:27:D:VAL:HG23	2:100:A:A2Y:H44	20	0.27
(1,799)	1:27:D:VAL:HG21	2:100:A:A2Y:H44	20	0.27
(1,799)	1:27:D:VAL:HG22	2:100:A:A2Y:H44	20	0.27
(1,799)	1:27:D:VAL:HG23	2:100:A:A2Y:H44	20	0.27
(1,798)	1:27:D:VAL:HG21	2:100:A:A2Y:H44	20	0.27
(1,798)	1:27:D:VAL:HG22	2:100:A:A2Y:H44	20	0.27
(1,798)	1:27:D:VAL:HG23	2:100:A:A2Y:H44	20	0.27
(1,671)	1:37:D:HIS:HD2	1:38:D:LEU:HD21	7	0.27
(1,671)	1:37:D:HIS:HD2	1:38:D:LEU:HD22	7	0.27
(1,671)	1:37:D:HIS:HD2	1:38:D:LEU:HD23	7	0.27
(1,481)	1:37:D:HIS:HD2	1:38:D:LEU:HD21	7	0.27
(1,481)	1:37:D:HIS:HD2	1:38:D:LEU:HD22	7	0.27
(1,481)	1:37:D:HIS:HD2	1:38:D:LEU:HD23	7	0.27
(1,291)	1:37:D:HIS:HD2	1:38:D:LEU:HD21	7	0.27
(1,291)	1:37:D:HIS:HD2	1:38:D:LEU:HD22	7	0.27
(1,291)	1:37:D:HIS:HD2	1:38:D:LEU:HD23	7	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,101)	1:37:C:HIS:HD2	1:38:C:LEU:HD21	7	0.27
(1,101)	1:37:C:HIS:HD2	1:38:C:LEU:HD22	7	0.27
(1,101)	1:37:C:HIS:HD2	1:38:C:LEU:HD23	7	0.27
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	8	0.27
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	8	0.27
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	8	0.27
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	9	0.26
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	8	0.26
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	8	0.26
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	8	0.26
(1,592)	1:29:D:ALA:HA	1:32:D:ILE:HD11	7	0.26
(1,592)	1:29:D:ALA:HA	1:32:D:ILE:HD12	7	0.26
(1,592)	1:29:D:ALA:HA	1:32:D:ILE:HD13	7	0.26
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	8	0.26
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	8	0.26
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	8	0.26
(1,402)	1:29:D:ALA:HA	1:32:D:ILE:HD11	7	0.26
(1,402)	1:29:D:ALA:HA	1:32:D:ILE:HD12	7	0.26
(1,402)	1:29:D:ALA:HA	1:32:D:ILE:HD13	7	0.26
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	8	0.26
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	8	0.26
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	8	0.26
(1,212)	1:29:D:ALA:HA	1:32:D:ILE:HD11	7	0.26
(1,212)	1:29:D:ALA:HA	1:32:D:ILE:HD12	7	0.26
(1,212)	1:29:D:ALA:HA	1:32:D:ILE:HD13	7	0.26
(1,22)	1:29:C:ALA:HA	1:32:C:ILE:HD11	7	0.26
(1,22)	1:29:C:ALA:HA	1:32:C:ILE:HD12	7	0.26
(1,22)	1:29:C:ALA:HA	1:32:C:ILE:HD13	7	0.26
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	1	0.25
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	5	0.25
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	3	0.25
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	7	0.25
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	11	0.24
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	14	0.24
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	9	0.24
(1,479)	1:37:D:HIS:HB2	1:38:D:LEU:HD21	14	0.24
(1,479)	1:37:D:HIS:HB2	1:38:D:LEU:HD22	14	0.24
(1,479)	1:37:D:HIS:HB2	1:38:D:LEU:HD23	14	0.24
(1,479)	1:37:D:HIS:HB3	1:38:D:LEU:HD21	14	0.24
(1,479)	1:37:D:HIS:HB3	1:38:D:LEU:HD22	14	0.24
(1,479)	1:37:D:HIS:HB3	1:38:D:LEU:HD23	14	0.24
(1,289)	1:37:D:HIS:HB2	1:38:D:LEU:HD21	14	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:37:D:HIS:HB2	1:38:D:LEU:HD22	14	0.24
(1,289)	1:37:D:HIS:HB2	1:38:D:LEU:HD23	14	0.24
(1,289)	1:37:D:HIS:HB3	1:38:D:LEU:HD21	14	0.24
(1,289)	1:37:D:HIS:HB3	1:38:D:LEU:HD22	14	0.24
(1,289)	1:37:D:HIS:HB3	1:38:D:LEU:HD23	14	0.24
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	2	0.23
(1,613)	1:32:D:ILE:H	1:32:D:ILE:HD11	3	0.23
(1,613)	1:32:D:ILE:H	1:32:D:ILE:HD12	3	0.23
(1,613)	1:32:D:ILE:H	1:32:D:ILE:HD13	3	0.23
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	9	0.23
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	9	0.23
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	9	0.23
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	12	0.23
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	12	0.23
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	12	0.23
(1,423)	1:32:D:ILE:H	1:32:D:ILE:HD11	3	0.23
(1,423)	1:32:D:ILE:H	1:32:D:ILE:HD12	3	0.23
(1,423)	1:32:D:ILE:H	1:32:D:ILE:HD13	3	0.23
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	9	0.23
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	9	0.23
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	9	0.23
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	12	0.23
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	12	0.23
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	12	0.23
(1,233)	1:32:D:ILE:H	1:32:D:ILE:HD11	3	0.23
(1,233)	1:32:D:ILE:H	1:32:D:ILE:HD12	3	0.23
(1,233)	1:32:D:ILE:H	1:32:D:ILE:HD13	3	0.23
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD11	9	0.23
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD12	9	0.23
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD13	9	0.23
(1,43)	1:32:C:ILE:H	1:32:C:ILE:HD11	3	0.23
(1,43)	1:32:C:ILE:H	1:32:C:ILE:HD12	3	0.23
(1,43)	1:32:C:ILE:H	1:32:C:ILE:HD13	3	0.23
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	3	0.22
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	4	0.22
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	11	0.22
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	16	0.22
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	18	0.22
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	14	0.22
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	18	0.22
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	3	0.22
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	3	0.22
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	4	0.22
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	3	0.22
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	4	0.22
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	4	0.22
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	4	0.22
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	4	0.22
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	4	0.22
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	4	0.22
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	4	0.22
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	4	0.22
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	4	0.22
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	4	0.22
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	19	0.22
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	19	0.22
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	19	0.22
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	19	0.22
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	19	0.22
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	19	0.22
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	19	0.22
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	19	0.22
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	19	0.22
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	1	0.22
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	1	0.22
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	1	0.22
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	2	0.22
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	2	0.22
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	2	0.22
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	10	0.22
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	10	0.22
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	10	0.22
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	4	0.22
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	4	0.22
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	4	0.22
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	4	0.22
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	4	0.22
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	4	0.22
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	4	0.22
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	4	0.22
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	4	0.22
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	19	0.22
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	19	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	19	0.22
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	19	0.22
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	19	0.22
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	19	0.22
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	19	0.22
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	19	0.22
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	19	0.22
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	1	0.22
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	1	0.22
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	1	0.22
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	2	0.22
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	2	0.22
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	2	0.22
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	10	0.22
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	10	0.22
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	10	0.22
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	4	0.22
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	4	0.22
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	4	0.22
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	4	0.22
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	4	0.22
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	4	0.22
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	4	0.22
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	4	0.22
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	4	0.22
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	19	0.22
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	19	0.22
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	19	0.22
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	19	0.22
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	19	0.22
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	19	0.22
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	19	0.22
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	19	0.22
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	19	0.22
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD11	4	0.22
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD12	4	0.22
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD13	4	0.22
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD11	4	0.22
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD12	4	0.22
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD13	4	0.22
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD11	4	0.22
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD12	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD13	4	0.22
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD11	19	0.22
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD12	19	0.22
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD13	19	0.22
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD11	19	0.22
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD12	19	0.22
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD13	19	0.22
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD11	19	0.22
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD12	19	0.22
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD13	19	0.22
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	9	0.21
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	14	0.21
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	5	0.21
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	7	0.21
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	7	0.21
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	14	0.21
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	14	0.21
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	14	0.21
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	3	0.21
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	4	0.21
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	14	0.21
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD11	3	0.21
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD12	3	0.21
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD13	3	0.21
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	17	0.21
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	17	0.21
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	17	0.21
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD11	3	0.21
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD12	3	0.21
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD13	3	0.21
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	17	0.21
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	17	0.21
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	17	0.21
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD11	3	0.21
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD12	3	0.21
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD13	3	0.21
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD11	3	0.21
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD12	3	0.21
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD13	3	0.21
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	1	0.2
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	12	0.2
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	1	0.2
(1,837)	1:37:C:HIS:HD2	1:41:D:TRP:HZ3	4	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	1	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	2	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	3	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	4	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	5	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	6	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	8	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	9	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	10	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	11	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	12	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	13	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	14	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	15	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	16	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	17	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	18	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	19	0.2
(1,827)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	20	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	1	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	2	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	3	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	4	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	5	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	6	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	8	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	9	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	10	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	11	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	12	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	13	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	14	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	15	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	16	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	17	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	18	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	19	0.2
(1,826)	1:37:D:HIS:HE1	1:37:D:HIS:HD2	20	0.2
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	7	0.2
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	7	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	7	0.2
(1,820)	1:30:D:ALA:HB3	2:100:A:A2Y:H663	9	0.2
(1,819)	1:30:D:ALA:HB3	2:100:A:A2Y:H663	9	0.2
(1,818)	1:30:D:ALA:HB3	2:100:A:A2Y:H663	9	0.2
(1,571)	1:23:D:SER:H	1:24:D:ASP:H	17	0.2
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	15	0.2
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	15	0.2
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	15	0.2
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	20	0.2
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	20	0.2
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	20	0.2
(1,381)	1:23:D:SER:H	1:24:D:ASP:H	17	0.2
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	15	0.2
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	15	0.2
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	15	0.2
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	20	0.2
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	20	0.2
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	20	0.2
(1,191)	1:23:D:SER:H	1:24:D:ASP:H	17	0.2
(1,1)	1:23:C:SER:H	1:24:C:ASP:H	17	0.2
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	16	0.19
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	19	0.19
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	9	0.19
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	11	0.19
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	9	0.19
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	11	0.19
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	9	0.19
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	11	0.19
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	5	0.19
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	7	0.19
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	9	0.19
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	11	0.19
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	12	0.19
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	12	0.19
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	12	0.19
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD11	13	0.19
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD12	13	0.19
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD13	13	0.19
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD11	16	0.19
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD12	16	0.19
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD13	16	0.19
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	12	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	12	0.19
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	12	0.19
(1,479)	1:37:D:HIS:HB2	1:38:D:LEU:HD21	3	0.19
(1,479)	1:37:D:HIS:HB2	1:38:D:LEU:HD22	3	0.19
(1,479)	1:37:D:HIS:HB2	1:38:D:LEU:HD23	3	0.19
(1,479)	1:37:D:HIS:HB3	1:38:D:LEU:HD21	3	0.19
(1,479)	1:37:D:HIS:HB3	1:38:D:LEU:HD22	3	0.19
(1,479)	1:37:D:HIS:HB3	1:38:D:LEU:HD23	3	0.19
(1,479)	1:37:D:HIS:HB2	1:38:D:LEU:HD21	4	0.19
(1,479)	1:37:D:HIS:HB2	1:38:D:LEU:HD22	4	0.19
(1,479)	1:37:D:HIS:HB2	1:38:D:LEU:HD23	4	0.19
(1,479)	1:37:D:HIS:HB3	1:38:D:LEU:HD21	4	0.19
(1,479)	1:37:D:HIS:HB3	1:38:D:LEU:HD22	4	0.19
(1,479)	1:37:D:HIS:HB3	1:38:D:LEU:HD23	4	0.19
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	18	0.19
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	18	0.19
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	18	0.19
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD11	13	0.19
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD12	13	0.19
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD13	13	0.19
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD11	16	0.19
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD12	16	0.19
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD13	16	0.19
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	12	0.19
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	12	0.19
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	12	0.19
(1,289)	1:37:D:HIS:HB2	1:38:D:LEU:HD21	3	0.19
(1,289)	1:37:D:HIS:HB2	1:38:D:LEU:HD22	3	0.19
(1,289)	1:37:D:HIS:HB2	1:38:D:LEU:HD23	3	0.19
(1,289)	1:37:D:HIS:HB3	1:38:D:LEU:HD21	3	0.19
(1,289)	1:37:D:HIS:HB3	1:38:D:LEU:HD22	3	0.19
(1,289)	1:37:D:HIS:HB3	1:38:D:LEU:HD23	3	0.19
(1,289)	1:37:D:HIS:HB2	1:38:D:LEU:HD21	4	0.19
(1,289)	1:37:D:HIS:HB2	1:38:D:LEU:HD22	4	0.19
(1,289)	1:37:D:HIS:HB2	1:38:D:LEU:HD23	4	0.19
(1,289)	1:37:D:HIS:HB3	1:38:D:LEU:HD21	4	0.19
(1,289)	1:37:D:HIS:HB3	1:38:D:LEU:HD22	4	0.19
(1,289)	1:37:D:HIS:HB3	1:38:D:LEU:HD23	4	0.19
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	18	0.19
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	18	0.19
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	18	0.19
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD11	13	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD12	13	0.19
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD13	13	0.19
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD11	16	0.19
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD12	16	0.19
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD13	16	0.19
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD11	5	0.19
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD12	5	0.19
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD13	5	0.19
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD11	13	0.19
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD12	13	0.19
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD13	13	0.19
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD11	16	0.19
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD12	16	0.19
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD13	16	0.19
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	5	0.18
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	6	0.18
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	1	0.18
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	5	0.18
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	8	0.18
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	1	0.18
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	5	0.18
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	8	0.18
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	1	0.18
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	5	0.18
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	8	0.18
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	1	0.18
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	8	0.18
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	2	0.18
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	2	0.18
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	2	0.18
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	10	0.18
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	10	0.18
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	10	0.18
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	17	0.18
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	17	0.18
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	17	0.18
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	20	0.18
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	20	0.18
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	20	0.18
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD11	11	0.18
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD12	11	0.18
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD13	11	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,571)	1:23:D:SER:H	1:24:D:ASP:H	4	0.18
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	2	0.18
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	2	0.18
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	2	0.18
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	10	0.18
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	10	0.18
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	10	0.18
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	17	0.18
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	17	0.18
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	17	0.18
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	20	0.18
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	20	0.18
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	20	0.18
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	6	0.18
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	6	0.18
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	6	0.18
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD11	11	0.18
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD12	11	0.18
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD13	11	0.18
(1,381)	1:23:D:SER:H	1:24:D:ASP:H	4	0.18
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	2	0.18
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	2	0.18
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	2	0.18
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	10	0.18
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	10	0.18
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	10	0.18
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	17	0.18
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	17	0.18
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	17	0.18
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	20	0.18
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	20	0.18
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	20	0.18
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	6	0.18
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	6	0.18
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	6	0.18
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD11	11	0.18
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD12	11	0.18
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD13	11	0.18
(1,191)	1:23:D:SER:H	1:24:D:ASP:H	4	0.18
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	12	0.18
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	12	0.18
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	12	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	20	0.18
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	20	0.18
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	20	0.18
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD11	11	0.18
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD12	11	0.18
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD13	11	0.18
(1,1)	1:23:C:SER:H	1:24:C:ASP:H	4	0.18
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	12	0.17
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	2	0.17
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	7	0.17
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	10	0.17
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	15	0.17
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	20	0.17
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	16	0.17
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	18	0.17
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	19	0.17
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	16	0.17
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	18	0.17
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	19	0.17
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	16	0.17
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	18	0.17
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	19	0.17
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	16	0.17
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	18	0.17
(1,772)	1:37:D:HIS:H	2:100:A:A2Y:H683	19	0.17
(1,771)	1:37:D:HIS:H	2:100:A:A2Y:H683	19	0.17
(1,770)	1:37:D:HIS:H	2:100:A:A2Y:H683	19	0.17
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	15	0.17
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	15	0.17
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	15	0.17
(1,571)	1:23:D:SER:H	1:24:D:ASP:H	11	0.17
(1,571)	1:23:D:SER:H	1:24:D:ASP:H	20	0.17
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	15	0.17
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	15	0.17
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	15	0.17
(1,381)	1:23:D:SER:H	1:24:D:ASP:H	11	0.17
(1,381)	1:23:D:SER:H	1:24:D:ASP:H	20	0.17
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	15	0.17
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	15	0.17
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	15	0.17
(1,191)	1:23:D:SER:H	1:24:D:ASP:H	11	0.17
(1,191)	1:23:D:SER:H	1:24:D:ASP:H	20	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	2	0.17
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	2	0.17
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	2	0.17
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	10	0.17
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	10	0.17
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	10	0.17
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	17	0.17
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	17	0.17
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	17	0.17
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	19	0.17
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	19	0.17
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	19	0.17
(1,28)	1:29:C:ALA:HB1	1:35:D:ILE:HD11	11	0.17
(1,28)	1:29:C:ALA:HB1	1:35:D:ILE:HD12	11	0.17
(1,28)	1:29:C:ALA:HB1	1:35:D:ILE:HD13	11	0.17
(1,28)	1:29:C:ALA:HB2	1:35:D:ILE:HD11	11	0.17
(1,28)	1:29:C:ALA:HB2	1:35:D:ILE:HD12	11	0.17
(1,28)	1:29:C:ALA:HB2	1:35:D:ILE:HD13	11	0.17
(1,28)	1:29:C:ALA:HB3	1:35:D:ILE:HD11	11	0.17
(1,28)	1:29:C:ALA:HB3	1:35:D:ILE:HD12	11	0.17
(1,28)	1:29:C:ALA:HB3	1:35:D:ILE:HD13	11	0.17
(1,1)	1:23:C:SER:H	1:24:C:ASP:H	11	0.17
(1,1)	1:23:C:SER:H	1:24:C:ASP:H	20	0.17
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	6	0.16
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	15	0.16
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	18	0.16
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	17	0.16
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	12	0.16
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	12	0.16
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	12	0.16
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	10	0.16
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	12	0.16
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	19	0.16
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	6	0.16
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	6	0.16
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	6	0.16
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	19	0.16
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	19	0.16
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	19	0.16
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD11	12	0.16
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD12	12	0.16
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD13	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD11	15	0.16
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD12	15	0.16
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD13	15	0.16
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD11	17	0.16
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD12	17	0.16
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD13	17	0.16
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	1	0.16
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	1	0.16
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	1	0.16
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	1	0.16
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	1	0.16
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	1	0.16
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	1	0.16
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	1	0.16
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	1	0.16
(1,592)	1:29:D:ALA:HA	1:32:D:ILE:HD11	11	0.16
(1,592)	1:29:D:ALA:HA	1:32:D:ILE:HD12	11	0.16
(1,592)	1:29:D:ALA:HA	1:32:D:ILE:HD13	11	0.16
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	6	0.16
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	6	0.16
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	6	0.16
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	19	0.16
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	19	0.16
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	19	0.16
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD11	12	0.16
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD12	12	0.16
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD13	12	0.16
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD11	15	0.16
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD12	15	0.16
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD13	15	0.16
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD11	17	0.16
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD12	17	0.16
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD13	17	0.16
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	1	0.16
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	1	0.16
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	1	0.16
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	1	0.16
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	1	0.16
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	1	0.16
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	1	0.16
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	1	0.16
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,402)	1:29:D:ALA:HA	1:32:D:ILE:HD11	11	0.16
(1,402)	1:29:D:ALA:HA	1:32:D:ILE:HD12	11	0.16
(1,402)	1:29:D:ALA:HA	1:32:D:ILE:HD13	11	0.16
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	6	0.16
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	6	0.16
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	6	0.16
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	19	0.16
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	19	0.16
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	19	0.16
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD11	12	0.16
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD12	12	0.16
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD13	12	0.16
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD11	15	0.16
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD12	15	0.16
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD13	15	0.16
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD11	17	0.16
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD12	17	0.16
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD13	17	0.16
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	1	0.16
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	1	0.16
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	1	0.16
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	1	0.16
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	1	0.16
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	1	0.16
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	1	0.16
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	1	0.16
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	1	0.16
(1,212)	1:29:D:ALA:HA	1:32:D:ILE:HD11	11	0.16
(1,212)	1:29:D:ALA:HA	1:32:D:ILE:HD12	11	0.16
(1,212)	1:29:D:ALA:HA	1:32:D:ILE:HD13	11	0.16
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	6	0.16
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	6	0.16
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	6	0.16
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	15	0.16
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	15	0.16
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	15	0.16
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD11	18	0.16
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD12	18	0.16
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD13	18	0.16
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD11	12	0.16
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD12	12	0.16
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD13	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD11	15	0.16
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD12	15	0.16
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD13	15	0.16
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD11	17	0.16
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD12	17	0.16
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD13	17	0.16
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD11	1	0.16
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD12	1	0.16
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD13	1	0.16
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD11	1	0.16
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD12	1	0.16
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD13	1	0.16
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD11	1	0.16
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD12	1	0.16
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD13	1	0.16
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	7	0.15
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	10	0.15
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	13	0.15
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	6	0.15
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	10	0.15
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	13	0.15
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	15	0.15
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	17	0.15
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	20	0.15
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	6	0.15
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	10	0.15
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	13	0.15
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	15	0.15
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	17	0.15
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	20	0.15
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	6	0.15
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	10	0.15
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	13	0.15
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	15	0.15
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	17	0.15
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	20	0.15
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	2	0.15
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	6	0.15
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	13	0.15
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	15	0.15
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	17	0.15
(1,813)	1:30:C:ALA:H	2:100:A:A2Y:H663	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,737)	1:46:D:LEU:HD11	1:47:D:PHE:HE1	8	0.15
(1,737)	1:46:D:LEU:HD11	1:47:D:PHE:HE2	8	0.15
(1,737)	1:46:D:LEU:HD12	1:47:D:PHE:HE1	8	0.15
(1,737)	1:46:D:LEU:HD12	1:47:D:PHE:HE2	8	0.15
(1,737)	1:46:D:LEU:HD13	1:47:D:PHE:HE1	8	0.15
(1,737)	1:46:D:LEU:HD13	1:47:D:PHE:HE2	8	0.15
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	13	0.15
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	13	0.15
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	13	0.15
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	18	0.15
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	18	0.15
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	18	0.15
(1,547)	1:46:D:LEU:HD11	1:47:D:PHE:HE1	8	0.15
(1,547)	1:46:D:LEU:HD11	1:47:D:PHE:HE2	8	0.15
(1,547)	1:46:D:LEU:HD12	1:47:D:PHE:HE1	8	0.15
(1,547)	1:46:D:LEU:HD12	1:47:D:PHE:HE2	8	0.15
(1,547)	1:46:D:LEU:HD13	1:47:D:PHE:HE1	8	0.15
(1,547)	1:46:D:LEU:HD13	1:47:D:PHE:HE2	8	0.15
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	13	0.15
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	13	0.15
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	13	0.15
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	18	0.15
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	18	0.15
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	18	0.15
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	16	0.15
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	16	0.15
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	16	0.15
(1,357)	1:46:D:LEU:HD11	1:47:D:PHE:HE1	8	0.15
(1,357)	1:46:D:LEU:HD11	1:47:D:PHE:HE2	8	0.15
(1,357)	1:46:D:LEU:HD12	1:47:D:PHE:HE1	8	0.15
(1,357)	1:46:D:LEU:HD12	1:47:D:PHE:HE2	8	0.15
(1,357)	1:46:D:LEU:HD13	1:47:D:PHE:HE1	8	0.15
(1,357)	1:46:D:LEU:HD13	1:47:D:PHE:HE2	8	0.15
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	13	0.15
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	13	0.15
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	13	0.15
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	18	0.15
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	18	0.15
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	18	0.15
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	16	0.15
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	16	0.15
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	16	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,167)	1:46:C:LEU:HD11	1:47:C:PHE:HE1	8	0.15
(1,167)	1:46:C:LEU:HD11	1:47:C:PHE:HE2	8	0.15
(1,167)	1:46:C:LEU:HD12	1:47:C:PHE:HE1	8	0.15
(1,167)	1:46:C:LEU:HD12	1:47:C:PHE:HE2	8	0.15
(1,167)	1:46:C:LEU:HD13	1:47:C:PHE:HE1	8	0.15
(1,167)	1:46:C:LEU:HD13	1:47:C:PHE:HE2	8	0.15
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	13	0.15
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	13	0.15
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	13	0.15
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	16	0.15
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	16	0.15
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	16	0.15
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	18	0.15
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	18	0.15
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	18	0.15
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD11	8	0.15
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD12	8	0.15
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD13	8	0.15
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD11	12	0.15
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD12	12	0.15
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD13	12	0.15
(1,22)	1:29:C:ALA:HA	1:32:C:ILE:HD11	11	0.15
(1,22)	1:29:C:ALA:HA	1:32:C:ILE:HD12	11	0.15
(1,22)	1:29:C:ALA:HA	1:32:C:ILE:HD13	11	0.15
(2,23)	1:27:D:VAL:O	1:31:D:ASN:H	11	0.14
(2,21)	1:27:D:VAL:O	1:31:D:ASN:H	11	0.14
(2,19)	1:27:D:VAL:O	1:31:D:ASN:H	11	0.14
(2,17)	1:27:C:VAL:O	1:31:C:ASN:H	11	0.14
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	2	0.14
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	17	0.14
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	20	0.14
(1,824)	1:37:D:HIS:HD2	1:37:D:HIS:HA	2	0.14
(1,823)	1:37:D:HIS:HD2	1:37:D:HIS:HA	2	0.14
(1,822)	1:37:D:HIS:HD2	1:37:D:HIS:HA	2	0.14
(1,821)	1:37:C:HIS:HD2	1:37:C:HIS:HA	20	0.14
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	5	0.14
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	5	0.14
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	5	0.14
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	9	0.14
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	9	0.14
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	9	0.14
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	11	0.14
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	11	0.14
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	16	0.14
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	16	0.14
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	16	0.14
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD11	2	0.14
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD12	2	0.14
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD13	2	0.14
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	5	0.14
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	5	0.14
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	5	0.14
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	9	0.14
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	9	0.14
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	9	0.14
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	11	0.14
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	11	0.14
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	11	0.14
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	16	0.14
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	16	0.14
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	16	0.14
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD11	2	0.14
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD12	2	0.14
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD13	2	0.14
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	5	0.14
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	5	0.14
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	5	0.14
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	9	0.14
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	9	0.14
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	9	0.14
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	11	0.14
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	11	0.14
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	11	0.14
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	16	0.14
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	16	0.14
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	16	0.14
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD11	2	0.14
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD12	2	0.14
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD13	2	0.14
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	9	0.14
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	9	0.14
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	9	0.14
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	11	0.14
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	11	0.14
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD11	1	0.14
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD12	1	0.14
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD13	1	0.14
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD11	2	0.14
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD12	2	0.14
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD13	2	0.14
(1,1)	1:23:C:SER:H	1:24:C:ASP:H	5	0.14
(2,119)	1:39:D:ILE:O	1:43:D:LEU:H	19	0.13
(2,117)	1:39:D:ILE:O	1:43:D:LEU:H	19	0.13
(2,115)	1:39:D:ILE:O	1:43:D:LEU:H	19	0.13
(2,81)	1:35:C:ILE:O	1:39:C:ILE:H	9	0.13
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	13	0.13
(1,797)	1:27:C:VAL:HG21	2:100:A:A2Y:H44	4	0.13
(1,797)	1:27:C:VAL:HG22	2:100:A:A2Y:H44	4	0.13
(1,797)	1:27:C:VAL:HG23	2:100:A:A2Y:H44	4	0.13
(1,792)	1:27:D:VAL:HG11	2:100:A:A2Y:H3	8	0.13
(1,792)	1:27:D:VAL:HG12	2:100:A:A2Y:H3	8	0.13
(1,792)	1:27:D:VAL:HG13	2:100:A:A2Y:H3	8	0.13
(1,791)	1:27:D:VAL:HG11	2:100:A:A2Y:H3	8	0.13
(1,791)	1:27:D:VAL:HG12	2:100:A:A2Y:H3	8	0.13
(1,791)	1:27:D:VAL:HG13	2:100:A:A2Y:H3	8	0.13
(1,790)	1:27:D:VAL:HG11	2:100:A:A2Y:H3	8	0.13
(1,790)	1:27:D:VAL:HG12	2:100:A:A2Y:H3	8	0.13
(1,790)	1:27:D:VAL:HG13	2:100:A:A2Y:H3	8	0.13
(1,781)	1:27:C:VAL:HG21	2:100:A:A2Y:H2	6	0.13
(1,781)	1:27:C:VAL:HG22	2:100:A:A2Y:H2	6	0.13
(1,781)	1:27:C:VAL:HG23	2:100:A:A2Y:H2	6	0.13
(1,781)	1:27:C:VAL:HG21	2:100:A:A2Y:H2	10	0.13
(1,781)	1:27:C:VAL:HG22	2:100:A:A2Y:H2	10	0.13
(1,781)	1:27:C:VAL:HG23	2:100:A:A2Y:H2	10	0.13
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD11	9	0.13
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD12	9	0.13
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD13	9	0.13
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	6	0.13
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	6	0.13
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	6	0.13
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	6	0.13
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	6	0.13
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	6	0.13
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	6	0.13
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	6	0.13
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	16	0.13
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	16	0.13
(1,606)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	16	0.13
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	16	0.13
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	16	0.13
(1,606)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	16	0.13
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	16	0.13
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	16	0.13
(1,606)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	16	0.13
(1,571)	1:23:D:SER:H	1:24:D:ASP:H	1	0.13
(1,571)	1:23:D:SER:H	1:24:D:ASP:H	5	0.13
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	13	0.13
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	13	0.13
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	13	0.13
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD11	19	0.13
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD12	19	0.13
(1,476)	1:37:D:HIS:H	1:38:D:LEU:HD13	19	0.13
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD11	9	0.13
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD12	9	0.13
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD13	9	0.13
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	6	0.13
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	6	0.13
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	6	0.13
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	6	0.13
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	6	0.13
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	6	0.13
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	6	0.13
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	6	0.13
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	6	0.13
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	16	0.13
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	16	0.13
(1,416)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	16	0.13
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	16	0.13
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	16	0.13
(1,416)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	16	0.13
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	16	0.13
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	16	0.13
(1,416)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	16	0.13
(1,381)	1:23:D:SER:H	1:24:D:ASP:H	1	0.13
(1,381)	1:23:D:SER:H	1:24:D:ASP:H	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	13	0.13
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	13	0.13
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	13	0.13
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD11	19	0.13
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD12	19	0.13
(1,286)	1:37:D:HIS:H	1:38:D:LEU:HD13	19	0.13
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD11	9	0.13
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD12	9	0.13
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD13	9	0.13
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	6	0.13
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	6	0.13
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	6	0.13
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	6	0.13
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	6	0.13
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	6	0.13
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	6	0.13
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	6	0.13
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	6	0.13
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD11	16	0.13
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD12	16	0.13
(1,226)	1:30:D:ALA:HB1	1:33:D:ILE:HD13	16	0.13
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD11	16	0.13
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD12	16	0.13
(1,226)	1:30:D:ALA:HB2	1:33:D:ILE:HD13	16	0.13
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD11	16	0.13
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD12	16	0.13
(1,226)	1:30:D:ALA:HB3	1:33:D:ILE:HD13	16	0.13
(1,191)	1:23:D:SER:H	1:24:D:ASP:H	1	0.13
(1,191)	1:23:D:SER:H	1:24:D:ASP:H	5	0.13
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	3	0.13
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	3	0.13
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	3	0.13
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	5	0.13
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	5	0.13
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	5	0.13
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD11	17	0.13
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD12	17	0.13
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD13	17	0.13
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD11	9	0.13
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD12	9	0.13
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD13	9	0.13
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD11	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD12	6	0.13
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD13	6	0.13
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD11	6	0.13
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD12	6	0.13
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD13	6	0.13
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD11	6	0.13
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD12	6	0.13
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD13	6	0.13
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD11	16	0.13
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD12	16	0.13
(1,36)	1:30:C:ALA:HB1	1:33:C:ILE:HD13	16	0.13
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD11	16	0.13
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD12	16	0.13
(1,36)	1:30:C:ALA:HB2	1:33:C:ILE:HD13	16	0.13
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD11	16	0.13
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD12	16	0.13
(1,36)	1:30:C:ALA:HB3	1:33:C:ILE:HD13	16	0.13
(1,28)	1:29:C:ALA:HB1	1:35:D:ILE:HD11	7	0.13
(1,28)	1:29:C:ALA:HB1	1:35:D:ILE:HD12	7	0.13
(1,28)	1:29:C:ALA:HB1	1:35:D:ILE:HD13	7	0.13
(1,28)	1:29:C:ALA:HB2	1:35:D:ILE:HD11	7	0.13
(1,28)	1:29:C:ALA:HB2	1:35:D:ILE:HD12	7	0.13
(1,28)	1:29:C:ALA:HB2	1:35:D:ILE:HD13	7	0.13
(1,28)	1:29:C:ALA:HB3	1:35:D:ILE:HD11	7	0.13
(1,28)	1:29:C:ALA:HB3	1:35:D:ILE:HD12	7	0.13
(1,28)	1:29:C:ALA:HB3	1:35:D:ILE:HD13	7	0.13
(1,1)	1:23:C:SER:H	1:24:C:ASP:H	1	0.13
(2,113)	1:39:C:ILE:O	1:43:C:LEU:H	19	0.12
(2,87)	1:35:D:ILE:O	1:39:D:ILE:H	4	0.12
(2,87)	1:35:D:ILE:O	1:39:D:ILE:H	9	0.12
(2,87)	1:35:D:ILE:O	1:39:D:ILE:H	11	0.12
(2,85)	1:35:D:ILE:O	1:39:D:ILE:H	4	0.12
(2,85)	1:35:D:ILE:O	1:39:D:ILE:H	9	0.12
(2,85)	1:35:D:ILE:O	1:39:D:ILE:H	11	0.12
(2,83)	1:35:D:ILE:O	1:39:D:ILE:H	4	0.12
(2,83)	1:35:D:ILE:O	1:39:D:ILE:H	9	0.12
(2,83)	1:35:D:ILE:O	1:39:D:ILE:H	11	0.12
(2,81)	1:35:C:ILE:O	1:39:C:ILE:H	4	0.12
(2,81)	1:35:C:ILE:O	1:39:C:ILE:H	11	0.12
(2,81)	1:35:C:ILE:O	1:39:C:ILE:H	16	0.12
(2,79)	1:34:D:GLY:O	1:38:D:LEU:H	9	0.12
(2,77)	1:34:D:GLY:O	1:38:D:LEU:H	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,75)	1:34:D:GLY:O	1:38:D:LEU:H	9	0.12
(1,789)	1:27:C:VAL:HG11	2:100:A:A2Y:H3	16	0.12
(1,789)	1:27:C:VAL:HG12	2:100:A:A2Y:H3	16	0.12
(1,789)	1:27:C:VAL:HG13	2:100:A:A2Y:H3	16	0.12
(1,768)	1:34:D:GLY:H	2:100:A:A2Y:H683	19	0.12
(1,767)	1:34:D:GLY:H	2:100:A:A2Y:H683	19	0.12
(1,766)	1:34:D:GLY:H	2:100:A:A2Y:H683	19	0.12
(1,739)	1:46:D:LEU:HD21	1:47:D:PHE:HE1	12	0.12
(1,739)	1:46:D:LEU:HD21	1:47:D:PHE:HE2	12	0.12
(1,739)	1:46:D:LEU:HD22	1:47:D:PHE:HE1	12	0.12
(1,739)	1:46:D:LEU:HD22	1:47:D:PHE:HE2	12	0.12
(1,739)	1:46:D:LEU:HD23	1:47:D:PHE:HE1	12	0.12
(1,739)	1:46:D:LEU:HD23	1:47:D:PHE:HE2	12	0.12
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	1	0.12
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	1	0.12
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	1	0.12
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	3	0.12
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	3	0.12
(1,670)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	3	0.12
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD11	10	0.12
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD12	10	0.12
(1,622)	1:33:D:ILE:HA	1:36:D:LEU:HD13	10	0.12
(1,592)	1:29:D:ALA:HA	1:32:D:ILE:HD11	3	0.12
(1,592)	1:29:D:ALA:HA	1:32:D:ILE:HD12	3	0.12
(1,592)	1:29:D:ALA:HA	1:32:D:ILE:HD13	3	0.12
(1,549)	1:46:D:LEU:HD21	1:47:D:PHE:HE1	12	0.12
(1,549)	1:46:D:LEU:HD21	1:47:D:PHE:HE2	12	0.12
(1,549)	1:46:D:LEU:HD22	1:47:D:PHE:HE1	12	0.12
(1,549)	1:46:D:LEU:HD22	1:47:D:PHE:HE2	12	0.12
(1,549)	1:46:D:LEU:HD23	1:47:D:PHE:HE1	12	0.12
(1,549)	1:46:D:LEU:HD23	1:47:D:PHE:HE2	12	0.12
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	1	0.12
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	1	0.12
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	1	0.12
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	3	0.12
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	3	0.12
(1,480)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	3	0.12
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD11	10	0.12
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD12	10	0.12
(1,430)	1:33:D:ILE:HA	1:36:D:LEU:HD13	10	0.12
(1,402)	1:29:D:ALA:HA	1:32:D:ILE:HD11	3	0.12
(1,402)	1:29:D:ALA:HA	1:32:D:ILE:HD12	3	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,402)	1:29:D:ALA:HA	1:32:D:ILE:HD13	3	0.12
(1,359)	1:46:D:LEU:HD21	1:47:D:PHE:HE1	12	0.12
(1,359)	1:46:D:LEU:HD21	1:47:D:PHE:HE2	12	0.12
(1,359)	1:46:D:LEU:HD22	1:47:D:PHE:HE1	12	0.12
(1,359)	1:46:D:LEU:HD22	1:47:D:PHE:HE2	12	0.12
(1,359)	1:46:D:LEU:HD23	1:47:D:PHE:HE1	12	0.12
(1,359)	1:46:D:LEU:HD23	1:47:D:PHE:HE2	12	0.12
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	1	0.12
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	1	0.12
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	1	0.12
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD11	3	0.12
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD12	3	0.12
(1,290)	1:37:D:HIS:HD2	1:38:D:LEU:HD13	3	0.12
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD11	10	0.12
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD12	10	0.12
(1,240)	1:33:D:ILE:HA	1:36:D:LEU:HD13	10	0.12
(1,212)	1:29:D:ALA:HA	1:32:D:ILE:HD11	3	0.12
(1,212)	1:29:D:ALA:HA	1:32:D:ILE:HD12	3	0.12
(1,212)	1:29:D:ALA:HA	1:32:D:ILE:HD13	3	0.12
(1,169)	1:46:C:LEU:HD21	1:47:C:PHE:HE1	12	0.12
(1,169)	1:46:C:LEU:HD21	1:47:C:PHE:HE2	12	0.12
(1,169)	1:46:C:LEU:HD22	1:47:C:PHE:HE1	12	0.12
(1,169)	1:46:C:LEU:HD22	1:47:C:PHE:HE2	12	0.12
(1,169)	1:46:C:LEU:HD23	1:47:C:PHE:HE1	12	0.12
(1,169)	1:46:C:LEU:HD23	1:47:C:PHE:HE2	12	0.12
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	1	0.12
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	1	0.12
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	1	0.12
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD11	2	0.12
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD12	2	0.12
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD13	2	0.12
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD11	10	0.12
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD12	10	0.12
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD13	10	0.12
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD11	10	0.12
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD12	10	0.12
(1,50)	1:33:C:ILE:HA	1:36:C:LEU:HD13	10	0.12
(1,22)	1:29:C:ALA:HA	1:32:C:ILE:HD11	3	0.12
(1,22)	1:29:C:ALA:HA	1:32:C:ILE:HD12	3	0.12
(1,22)	1:29:C:ALA:HA	1:32:C:ILE:HD13	3	0.12
(2,87)	1:35:D:ILE:O	1:39:D:ILE:H	10	0.11
(2,87)	1:35:D:ILE:O	1:39:D:ILE:H	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,87)	1:35:D:ILE:O	1:39:D:ILE:H	16	0.11
(2,87)	1:35:D:ILE:O	1:39:D:ILE:H	17	0.11
(2,87)	1:35:D:ILE:O	1:39:D:ILE:H	20	0.11
(2,85)	1:35:D:ILE:O	1:39:D:ILE:H	10	0.11
(2,85)	1:35:D:ILE:O	1:39:D:ILE:H	12	0.11
(2,85)	1:35:D:ILE:O	1:39:D:ILE:H	16	0.11
(2,85)	1:35:D:ILE:O	1:39:D:ILE:H	17	0.11
(2,85)	1:35:D:ILE:O	1:39:D:ILE:H	20	0.11
(2,83)	1:35:D:ILE:O	1:39:D:ILE:H	10	0.11
(2,83)	1:35:D:ILE:O	1:39:D:ILE:H	12	0.11
(2,83)	1:35:D:ILE:O	1:39:D:ILE:H	16	0.11
(2,83)	1:35:D:ILE:O	1:39:D:ILE:H	17	0.11
(2,83)	1:35:D:ILE:O	1:39:D:ILE:H	20	0.11
(2,81)	1:35:C:ILE:O	1:39:C:ILE:H	10	0.11
(2,81)	1:35:C:ILE:O	1:39:C:ILE:H	12	0.11
(2,81)	1:35:C:ILE:O	1:39:C:ILE:H	17	0.11
(2,81)	1:35:C:ILE:O	1:39:C:ILE:H	20	0.11
(2,79)	1:34:D:GLY:O	1:38:D:LEU:H	12	0.11
(2,79)	1:34:D:GLY:O	1:38:D:LEU:H	17	0.11
(2,77)	1:34:D:GLY:O	1:38:D:LEU:H	12	0.11
(2,77)	1:34:D:GLY:O	1:38:D:LEU:H	17	0.11
(2,75)	1:34:D:GLY:O	1:38:D:LEU:H	12	0.11
(2,75)	1:34:D:GLY:O	1:38:D:LEU:H	17	0.11
(2,73)	1:34:C:GLY:O	1:38:C:LEU:H	9	0.11
(2,73)	1:34:C:GLY:O	1:38:C:LEU:H	12	0.11
(2,73)	1:34:C:GLY:O	1:38:C:LEU:H	17	0.11
(2,31)	1:28:D:VAL:O	1:32:D:ILE:H	11	0.11
(2,29)	1:28:D:VAL:O	1:32:D:ILE:H	11	0.11
(2,27)	1:28:D:VAL:O	1:32:D:ILE:H	11	0.11
(2,25)	1:28:C:VAL:O	1:32:C:ILE:H	11	0.11
(1,877)	1:37:C:HIS:HE1	1:41:D:TRP:CZ2	8	0.11
(1,800)	1:27:D:VAL:HG21	2:100:A:A2Y:H44	6	0.11
(1,800)	1:27:D:VAL:HG22	2:100:A:A2Y:H44	6	0.11
(1,800)	1:27:D:VAL:HG23	2:100:A:A2Y:H44	6	0.11
(1,799)	1:27:D:VAL:HG21	2:100:A:A2Y:H44	6	0.11
(1,799)	1:27:D:VAL:HG22	2:100:A:A2Y:H44	6	0.11
(1,799)	1:27:D:VAL:HG23	2:100:A:A2Y:H44	6	0.11
(1,798)	1:27:D:VAL:HG21	2:100:A:A2Y:H44	6	0.11
(1,798)	1:27:D:VAL:HG22	2:100:A:A2Y:H44	6	0.11
(1,798)	1:27:D:VAL:HG23	2:100:A:A2Y:H44	6	0.11
(1,761)	1:32:C:ILE:H	2:100:A:A2Y:H663	13	0.11
(1,714)	1:42:D:ILE:HG21	1:46:D:LEU:HD11	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,714)	1:42:D:ILE:HG21	1:46:D:LEU:HD12	3	0.11
(1,714)	1:42:D:ILE:HG21	1:46:D:LEU:HD13	3	0.11
(1,714)	1:42:D:ILE:HG22	1:46:D:LEU:HD11	3	0.11
(1,714)	1:42:D:ILE:HG22	1:46:D:LEU:HD12	3	0.11
(1,714)	1:42:D:ILE:HG22	1:46:D:LEU:HD13	3	0.11
(1,714)	1:42:D:ILE:HG23	1:46:D:LEU:HD11	3	0.11
(1,714)	1:42:D:ILE:HG23	1:46:D:LEU:HD12	3	0.11
(1,714)	1:42:D:ILE:HG23	1:46:D:LEU:HD13	3	0.11
(1,571)	1:23:D:SER:H	1:24:D:ASP:H	13	0.11
(1,524)	1:42:D:ILE:HG21	1:46:D:LEU:HD11	3	0.11
(1,524)	1:42:D:ILE:HG21	1:46:D:LEU:HD12	3	0.11
(1,524)	1:42:D:ILE:HG21	1:46:D:LEU:HD13	3	0.11
(1,524)	1:42:D:ILE:HG22	1:46:D:LEU:HD11	3	0.11
(1,524)	1:42:D:ILE:HG22	1:46:D:LEU:HD12	3	0.11
(1,524)	1:42:D:ILE:HG22	1:46:D:LEU:HD13	3	0.11
(1,524)	1:42:D:ILE:HG23	1:46:D:LEU:HD11	3	0.11
(1,524)	1:42:D:ILE:HG23	1:46:D:LEU:HD12	3	0.11
(1,524)	1:42:D:ILE:HG23	1:46:D:LEU:HD13	3	0.11
(1,381)	1:23:D:SER:H	1:24:D:ASP:H	13	0.11
(1,334)	1:42:D:ILE:HG21	1:46:D:LEU:HD11	3	0.11
(1,334)	1:42:D:ILE:HG21	1:46:D:LEU:HD12	3	0.11
(1,334)	1:42:D:ILE:HG21	1:46:D:LEU:HD13	3	0.11
(1,334)	1:42:D:ILE:HG22	1:46:D:LEU:HD11	3	0.11
(1,334)	1:42:D:ILE:HG22	1:46:D:LEU:HD12	3	0.11
(1,334)	1:42:D:ILE:HG22	1:46:D:LEU:HD13	3	0.11
(1,334)	1:42:D:ILE:HG23	1:46:D:LEU:HD11	3	0.11
(1,334)	1:42:D:ILE:HG23	1:46:D:LEU:HD12	3	0.11
(1,334)	1:42:D:ILE:HG23	1:46:D:LEU:HD13	3	0.11
(1,191)	1:23:D:SER:H	1:24:D:ASP:H	13	0.11
(1,144)	1:42:C:ILE:HG21	1:46:C:LEU:HD11	3	0.11
(1,144)	1:42:C:ILE:HG21	1:46:C:LEU:HD12	3	0.11
(1,144)	1:42:C:ILE:HG21	1:46:C:LEU:HD13	3	0.11
(1,144)	1:42:C:ILE:HG22	1:46:C:LEU:HD11	3	0.11
(1,144)	1:42:C:ILE:HG22	1:46:C:LEU:HD12	3	0.11
(1,144)	1:42:C:ILE:HG22	1:46:C:LEU:HD13	3	0.11
(1,144)	1:42:C:ILE:HG23	1:46:C:LEU:HD11	3	0.11
(1,144)	1:42:C:ILE:HG23	1:46:C:LEU:HD12	3	0.11
(1,144)	1:42:C:ILE:HG23	1:46:C:LEU:HD13	3	0.11
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD11	6	0.11
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD12	6	0.11
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD13	6	0.11
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD11	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD12	14	0.11
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD13	14	0.11
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD11	15	0.11
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD12	15	0.11
(1,91)	1:37:C:HIS:HA	1:38:D:LEU:HD13	15	0.11
(1,53)	1:33:C:ILE:HA	1:38:D:LEU:HD21	7	0.11
(1,53)	1:33:C:ILE:HA	1:38:D:LEU:HD22	7	0.11
(1,53)	1:33:C:ILE:HA	1:38:D:LEU:HD23	7	0.11
(1,28)	1:29:C:ALA:HB1	1:35:D:ILE:HD11	14	0.11
(1,28)	1:29:C:ALA:HB1	1:35:D:ILE:HD12	14	0.11
(1,28)	1:29:C:ALA:HB1	1:35:D:ILE:HD13	14	0.11
(1,28)	1:29:C:ALA:HB2	1:35:D:ILE:HD11	14	0.11
(1,28)	1:29:C:ALA:HB2	1:35:D:ILE:HD12	14	0.11
(1,28)	1:29:C:ALA:HB2	1:35:D:ILE:HD13	14	0.11
(1,28)	1:29:C:ALA:HB3	1:35:D:ILE:HD11	14	0.11
(1,28)	1:29:C:ALA:HB3	1:35:D:ILE:HD12	14	0.11
(1,28)	1:29:C:ALA:HB3	1:35:D:ILE:HD13	14	0.11
(1,28)	1:29:C:ALA:HB1	1:35:D:ILE:HD11	18	0.11
(1,28)	1:29:C:ALA:HB1	1:35:D:ILE:HD12	18	0.11
(1,28)	1:29:C:ALA:HB1	1:35:D:ILE:HD13	18	0.11
(1,28)	1:29:C:ALA:HB2	1:35:D:ILE:HD11	18	0.11
(1,28)	1:29:C:ALA:HB2	1:35:D:ILE:HD12	18	0.11
(1,28)	1:29:C:ALA:HB2	1:35:D:ILE:HD13	18	0.11
(1,28)	1:29:C:ALA:HB3	1:35:D:ILE:HD11	18	0.11
(1,28)	1:29:C:ALA:HB3	1:35:D:ILE:HD12	18	0.11
(1,28)	1:29:C:ALA:HB3	1:35:D:ILE:HD13	18	0.11
(1,1)	1:23:C:SER:H	1:24:C:ASP:H	13	0.11
(1,1)	1:23:C:SER:H	1:24:C:ASP:H	16	0.11
(2,112)	1:38:D:LEU:O	1:42:D:ILE:N	9	0.1
(2,110)	1:38:D:LEU:O	1:42:D:ILE:N	9	0.1
(2,108)	1:38:D:LEU:O	1:42:D:ILE:N	9	0.1
(2,106)	1:38:C:LEU:O	1:42:C:ILE:N	9	0.1
(2,87)	1:35:D:ILE:O	1:39:D:ILE:H	5	0.1
(2,85)	1:35:D:ILE:O	1:39:D:ILE:H	5	0.1
(2,83)	1:35:D:ILE:O	1:39:D:ILE:H	5	0.1
(2,81)	1:35:C:ILE:O	1:39:C:ILE:H	5	0.1
(1,876)	1:37:C:HIS:HE1	1:41:D:TRP:CH2	8	0.1
(1,780)	1:27:D:VAL:HG21	2:100:A:A2Y:H1	7	0.1
(1,780)	1:27:D:VAL:HG22	2:100:A:A2Y:H1	7	0.1
(1,780)	1:27:D:VAL:HG23	2:100:A:A2Y:H1	7	0.1
(1,779)	1:27:D:VAL:HG21	2:100:A:A2Y:H1	7	0.1
(1,779)	1:27:D:VAL:HG22	2:100:A:A2Y:H1	7	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,779)	1:27:D:VAL:HG23	2:100:A:A2Y:H1	7	0.1
(1,778)	1:27:D:VAL:HG21	2:100:A:A2Y:H1	7	0.1
(1,778)	1:27:D:VAL:HG22	2:100:A:A2Y:H1	7	0.1
(1,778)	1:27:D:VAL:HG23	2:100:A:A2Y:H1	7	0.1
(1,571)	1:23:D:SER:H	1:24:D:ASP:H	16	0.1
(1,381)	1:23:D:SER:H	1:24:D:ASP:H	16	0.1
(1,191)	1:23:D:SER:H	1:24:D:ASP:H	16	0.1
(1,144)	1:42:C:ILE:HG21	1:46:C:LEU:HD11	9	0.1
(1,144)	1:42:C:ILE:HG21	1:46:C:LEU:HD12	9	0.1
(1,144)	1:42:C:ILE:HG21	1:46:C:LEU:HD13	9	0.1
(1,144)	1:42:C:ILE:HG22	1:46:C:LEU:HD11	9	0.1
(1,144)	1:42:C:ILE:HG22	1:46:C:LEU:HD12	9	0.1
(1,144)	1:42:C:ILE:HG22	1:46:C:LEU:HD13	9	0.1
(1,144)	1:42:C:ILE:HG23	1:46:C:LEU:HD11	9	0.1
(1,144)	1:42:C:ILE:HG23	1:46:C:LEU:HD12	9	0.1
(1,144)	1:42:C:ILE:HG23	1:46:C:LEU:HD13	9	0.1
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD11	14	0.1
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD12	14	0.1
(1,100)	1:37:C:HIS:HD2	1:38:C:LEU:HD13	14	0.1

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

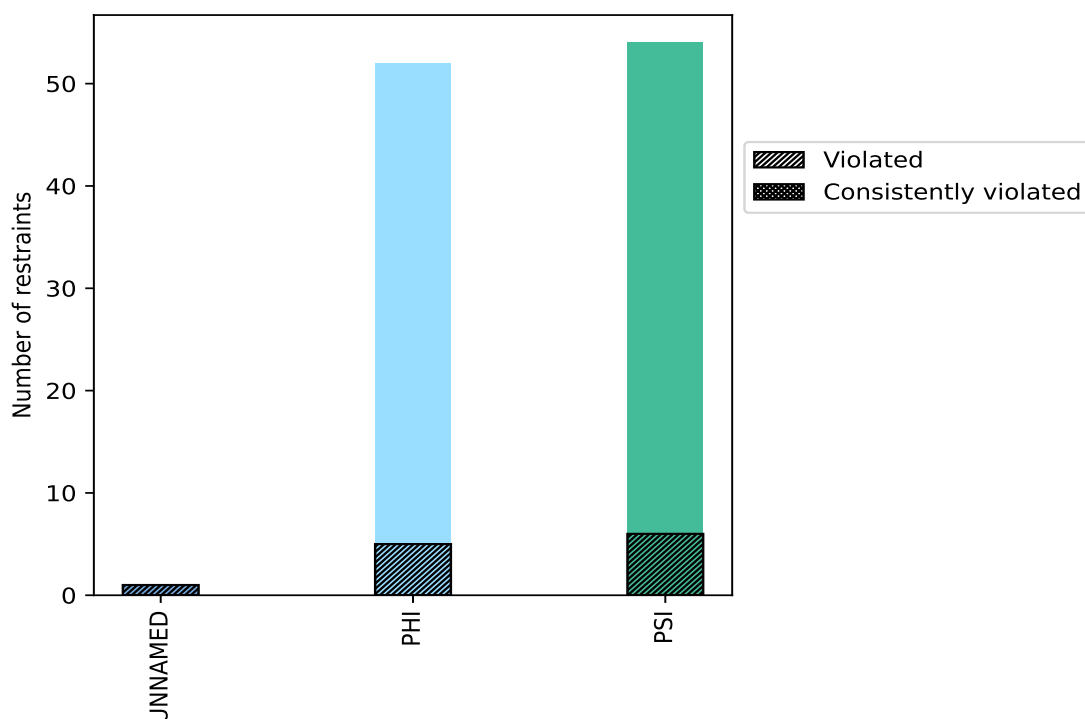
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
UNNAMED	1	0.9	1	100.0	0.9	0	0.0	0.0
PHI	52	48.6	5	9.6	4.7	0	0.0	0.0
PSI	54	50.5	6	11.1	5.6	0	0.0	0.0
Total	107	100.0	12	11.2	11.2	0	0.0	0.0

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

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



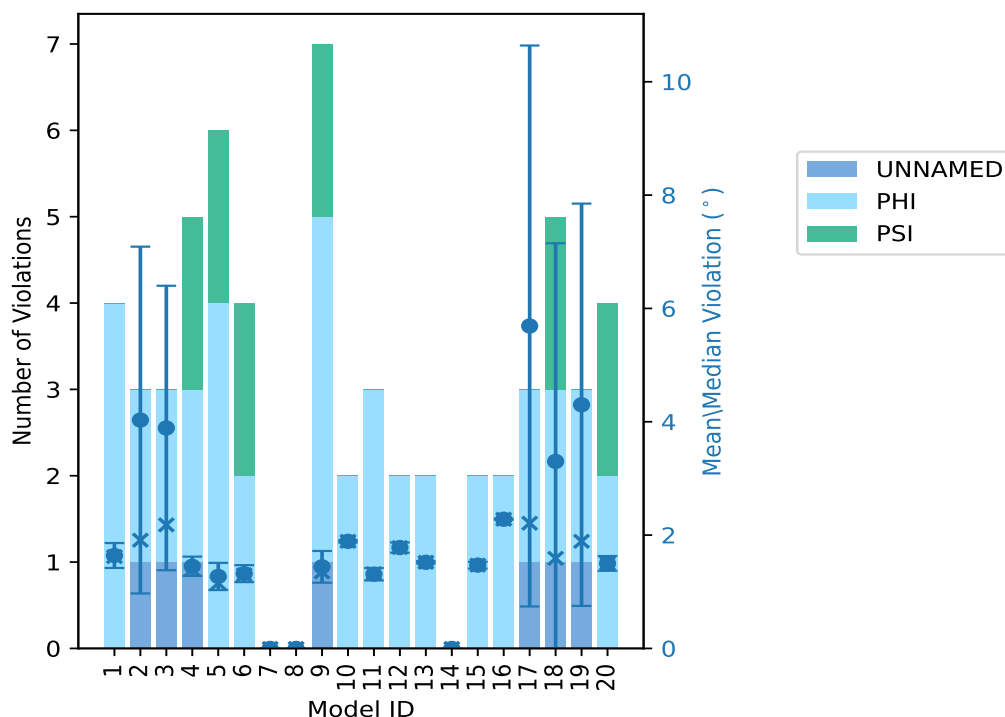
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model [i](#)

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

Model ID	Number of violations				Mean (°)	Max (°)	SD (°)	Median (°)
	UNNAMED	PHI	PSI	Total				
1	0	4	0	4	1.64	1.9	0.22	1.62
2	1	2	0	3	4.03	8.36	3.06	1.91
3	1	2	0	3	3.89	7.44	2.51	2.18
4	1	2	2	5	1.45	1.75	0.17	1.39
5	0	4	2	6	1.27	1.63	0.24	1.15
6	0	2	2	4	1.32	1.52	0.15	1.3
7	0	0	0	0	0.0	0.0	0.0	0.0
8	0	0	0	0	0.0	0.0	0.0	0.0
9	1	4	2	7	1.44	2.1	0.28	1.35
10	0	2	0	2	1.89	1.91	0.02	1.89
11	0	3	0	3	1.31	1.44	0.11	1.32
12	0	2	0	2	1.78	1.87	0.09	1.78
13	0	2	0	2	1.52	1.53	0.02	1.52
14	0	0	0	0	0.0	0.0	0.0	0.0
15	0	2	0	2	1.47	1.53	0.06	1.47
16	0	2	0	2	2.28	2.29	0.01	2.28
17	1	2	0	3	5.69	12.7	4.95	2.21
18	1	2	2	5	3.3	10.98	3.85	1.59
19	1	2	0	3	4.3	9.32	3.55	1.89
20	0	2	2	4	1.5	1.67	0.13	1.5

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



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

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

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

Number of violated restraints				Fraction of the ensemble	
UNNAMED	PHI	PSI	Total	Count ¹	%
0	1	2	3	1	5.0
0	0	2	2	2	10.0
0	2	2	4	3	15.0
0	0	0	0	4	20.0
0	0	0	0	5	25.0
0	0	0	0	6	30.0
1	0	0	1	7	35.0
0	0	0	0	8	40.0
0	0	0	0	9	45.0
0	0	0	0	10	50.0
0	0	0	0	11	55.0

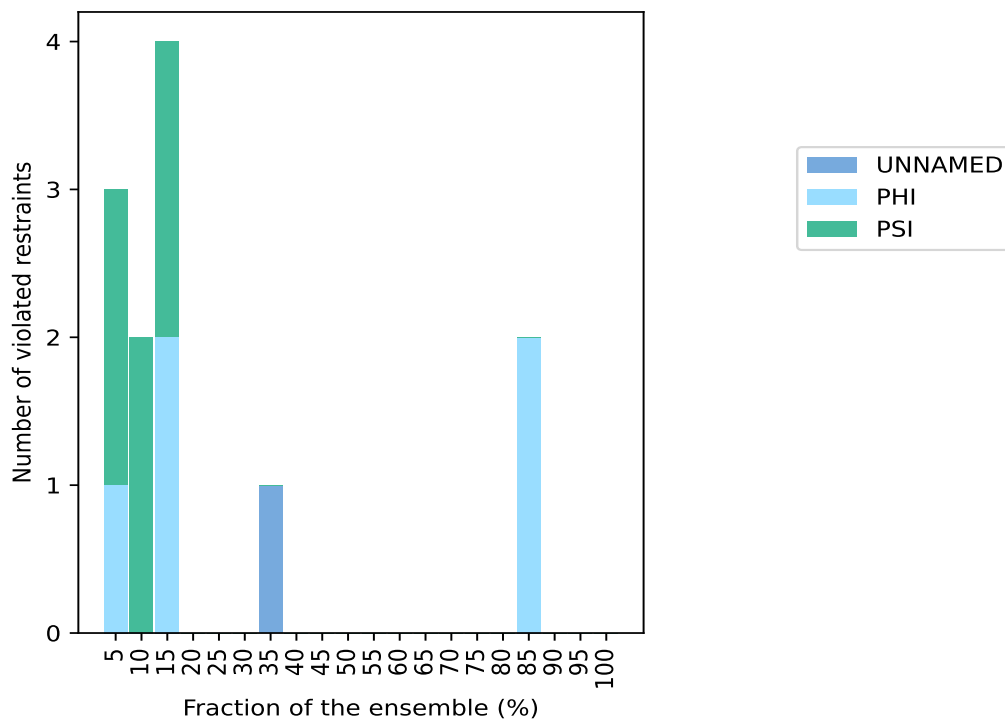
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Number of violated restraints				Fraction of the ensemble	
UNNAMED	PHI	PSI	Total	Count ¹	%
0	0	0	0	12	60.0
0	0	0	0	13	65.0
0	0	0	0	14	70.0
0	0	0	0	15	75.0
0	0	0	0	16	80.0
0	2	0	2	17	85.0
0	0	0	0	18	90.0
0	0	0	0	19	95.0
0	0	0	0	20	100.0

¹ Number of models with violations

10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)

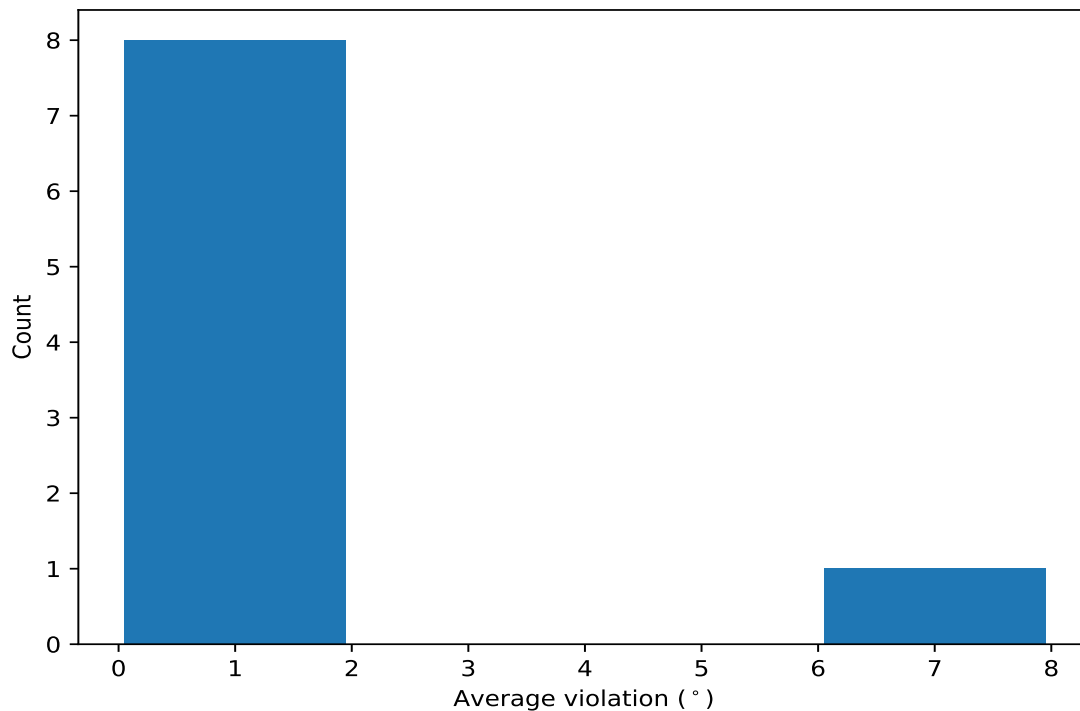


10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

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

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

in the ensemble



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

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

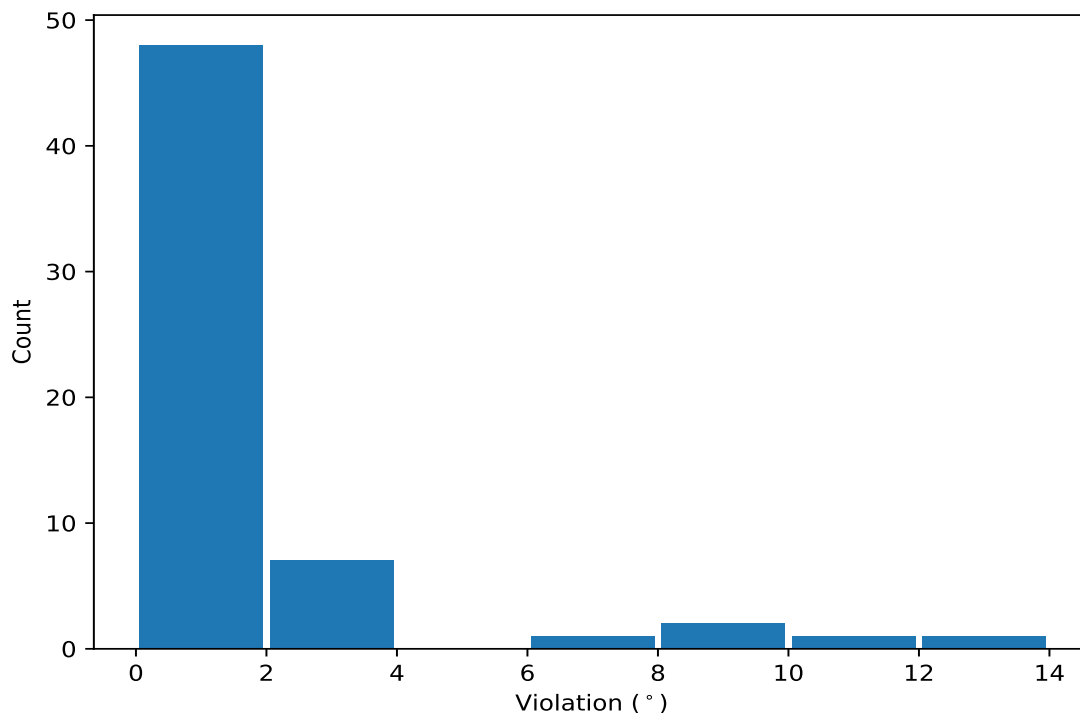
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	17	1.72	0.29	1.67
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	17	1.69	0.28	1.58
(1,107)	2:100:A:A2Y:O	2:100:A:A2Y:C1	2:100:A:A2Y:C10	2:100:A:A2Y:S	7	7.52	3.88	8.36
(1,103)	1:47:C:PHE:C	1:48:C:PHE:N	1:48:C:PHE:CA	1:48:C:PHE:C	3	1.43	0.34	1.29
(1,104)	1:47:D:PHE:C	1:48:D:PHE:N	1:48:D:PHE:CA	1:48:D:PHE:C	3	1.34	0.33	1.18
(1,101)	1:47:C:PHE:N	1:47:C:PHE:CA	1:47:C:PHE:C	1:48:C:PHE:N	3	1.22	0.11	1.17
(1,102)	1:47:D:PHE:N	1:47:D:PHE:CA	1:47:D:PHE:C	1:48:D:PHE:N	3	1.22	0.05	1.18
(1,13)	1:25:C:PRO:N	1:25:C:PRO:CA	1:25:C:PRO:C	1:26:C:LEU:N	2	1.4	0.02	1.4
(1,14)	1:25:D:PRO:N	1:25:D:PRO:CA	1:25:D:PRO:C	1:26:D:LEU:N	2	1.29	0.05	1.29

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

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

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

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,107)	2:100:A:A2Y:O	2:100:A:A2Y:C1	2:100:A:A2Y:C10	2:100:A:A2Y:S	17	12.7
(1,107)	2:100:A:A2Y:O	2:100:A:A2Y:C1	2:100:A:A2Y:C10	2:100:A:A2Y:S	18	10.98
(1,107)	2:100:A:A2Y:O	2:100:A:A2Y:C1	2:100:A:A2Y:C10	2:100:A:A2Y:S	19	9.32
(1,107)	2:100:A:A2Y:O	2:100:A:A2Y:C1	2:100:A:A2Y:C10	2:100:A:A2Y:S	2	8.36
(1,107)	2:100:A:A2Y:O	2:100:A:A2Y:C1	2:100:A:A2Y:C10	2:100:A:A2Y:S	3	7.44
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	16	2.29
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	16	2.27
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	17	2.21
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	3	2.18
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	17	2.17
(1,107)	2:100:A:A2Y:O	2:100:A:A2Y:C1	2:100:A:A2Y:C10	2:100:A:A2Y:S	9	2.1
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	3	2.06
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	10	1.91
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	2	1.91
(1,103)	1:47:C:PHE:C	1:48:C:PHE:N	1:48:C:PHE:CA	1:48:C:PHE:C	1	1.9
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	19	1.89
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	12	1.87
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	10	1.87
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	2	1.82
(1,104)	1:47:D:PHE:C	1:48:D:PHE:N	1:48:D:PHE:CA	1:48:D:PHE:C	1	1.81
(1,107)	2:100:A:A2Y:O	2:100:A:A2Y:C1	2:100:A:A2Y:C10	2:100:A:A2Y:S	4	1.75

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	19	1.7
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	18	1.7
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	12	1.69
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	20	1.67
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	5	1.63
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	18	1.59
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	5	1.58
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	20	1.58
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	13	1.53
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	15	1.53
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	6	1.52
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	9	1.5
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	13	1.5
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	4	1.48
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	1	1.44
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	11	1.44
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	6	1.42
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	15	1.41
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	1	1.41
(1,13)	1:25:C:PRO:N	1:25:C:PRO:CA	1:25:C:PRO:C	1:26:C:LEU:N	20	1.41
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	4	1.39
(1,101)	1:47:C:PHE:N	1:47:C:PHE:CA	1:47:C:PHE:C	1:48:C:PHE:N	9	1.38
(1,13)	1:25:C:PRO:N	1:25:C:PRO:CA	1:25:C:PRO:C	1:26:C:LEU:N	4	1.38
(1,59)	1:36:C:LEU:C	1:37:C:HIS:N	1:37:C:HIS:CA	1:37:C:HIS:C	9	1.35
(1,14)	1:25:D:PRO:N	1:25:D:PRO:CA	1:25:D:PRO:C	1:26:D:LEU:N	20	1.34
(1,60)	1:36:D:LEU:C	1:37:D:HIS:N	1:37:D:HIS:CA	1:37:D:HIS:C	11	1.32
(1,103)	1:47:C:PHE:C	1:48:C:PHE:N	1:48:C:PHE:CA	1:48:C:PHE:C	9	1.29
(1,102)	1:47:D:PHE:N	1:47:D:PHE:CA	1:47:D:PHE:C	1:48:D:PHE:N	9	1.29
(1,14)	1:25:D:PRO:N	1:25:D:PRO:CA	1:25:D:PRO:C	1:26:D:LEU:N	4	1.24
(1,104)	1:47:D:PHE:C	1:48:D:PHE:N	1:48:D:PHE:CA	1:48:D:PHE:C	9	1.18
(1,102)	1:47:D:PHE:N	1:47:D:PHE:CA	1:47:D:PHE:C	1:48:D:PHE:N	5	1.18
(1,102)	1:47:D:PHE:N	1:47:D:PHE:CA	1:47:D:PHE:C	1:48:D:PHE:N	6	1.18
(1,101)	1:47:C:PHE:N	1:47:C:PHE:CA	1:47:C:PHE:C	1:48:C:PHE:N	6	1.17
(1,31)	1:29:C:ALA:C	1:30:C:ALA:N	1:30:C:ALA:CA	1:30:C:ALA:C	11	1.16
(1,11)	1:24:C:ASP:N	1:24:C:ASP:CA	1:24:C:ASP:C	1:25:C:PRO:N	18	1.13
(1,101)	1:47:C:PHE:N	1:47:C:PHE:CA	1:47:C:PHE:C	1:48:C:PHE:N	5	1.12
(1,12)	1:24:D:ASP:N	1:24:D:ASP:CA	1:24:D:ASP:C	1:25:D:PRO:N	18	1.12
(1,103)	1:47:C:PHE:C	1:48:C:PHE:N	1:48:C:PHE:CA	1:48:C:PHE:C	5	1.09
(1,104)	1:47:D:PHE:C	1:48:D:PHE:N	1:48:D:PHE:CA	1:48:D:PHE:C	5	1.04