



Full wwPDB NMR Structure Validation Report ⓘ

Dec 25, 2024 – 02:26 AM EST

PDB ID : 2RRM
BMRB ID : 11424
Title : Interplay between phosphatidyl-inositol-phosphates and claudins upon binding to the 1st PDZ domain of zonula occludens 1
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Deposited on : 2011-01-06

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

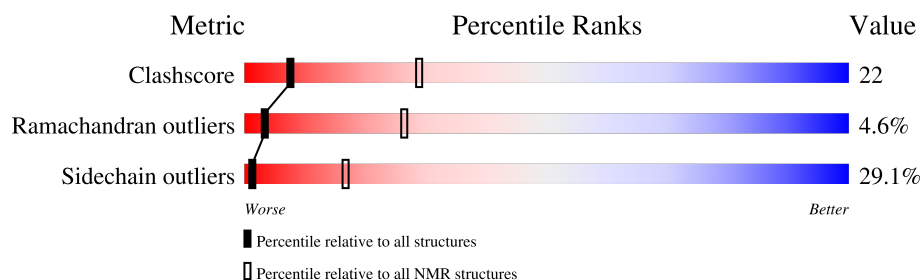
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 83%.

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	100	<div>38% 39% • 21%</div>

2 Ensemble composition and analysis

This entry contains 20 models. Model 4 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:3-A:25, A:36-A:91 (79)	0.48	4

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 4 clusters and 1 single-model cluster was found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1520 atoms, of which 759 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Tight junction protein ZO-1.

Mol	Chain	Residues	Atoms						Trace
1	A	100	Total	C	H	N	O	S	0
			1520	470	759	146	143	2	

There are 7 discrepancies between the modelled and reference sequences:

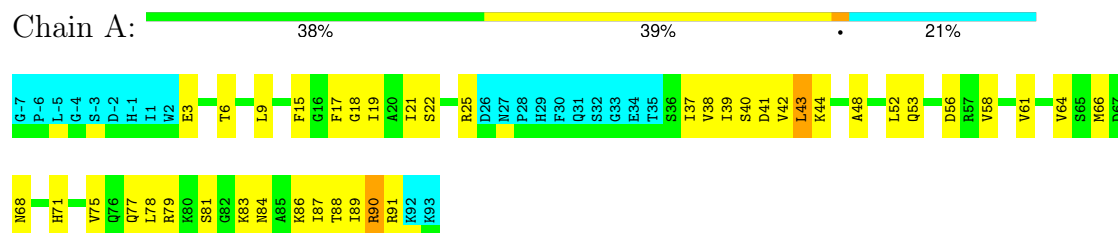
Chain	Residue	Modelled	Actual	Comment	Reference
A	-7	GLY	-	expression tag	UNP P39447
A	-6	PRO	-	expression tag	UNP P39447
A	-5	LEU	-	expression tag	UNP P39447
A	-4	GLY	-	expression tag	UNP P39447
A	-3	SER	-	expression tag	UNP P39447
A	-2	ASP	-	expression tag	UNP P39447
A	-1	HIS	-	expression tag	UNP P39447

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: Tight junction protein ZO-1

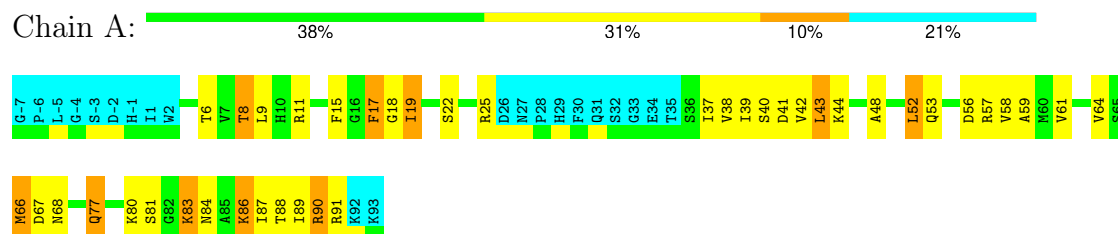


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

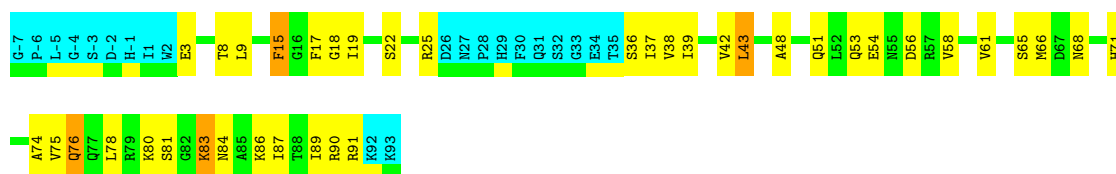
- Molecule 1: Tight junction protein ZO-1



4.2.2 Score per residue for model 2

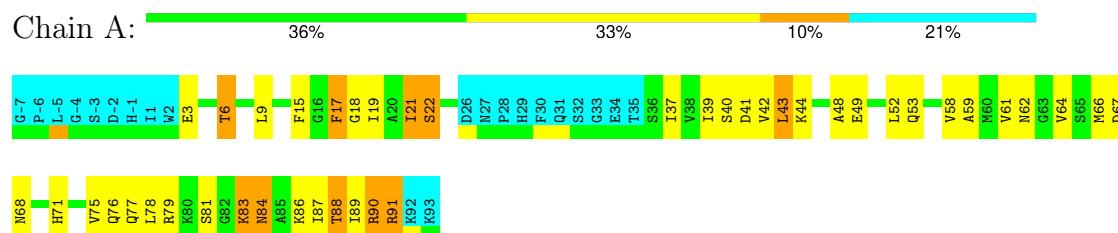
- Molecule 1: Tight junction protein ZO-1





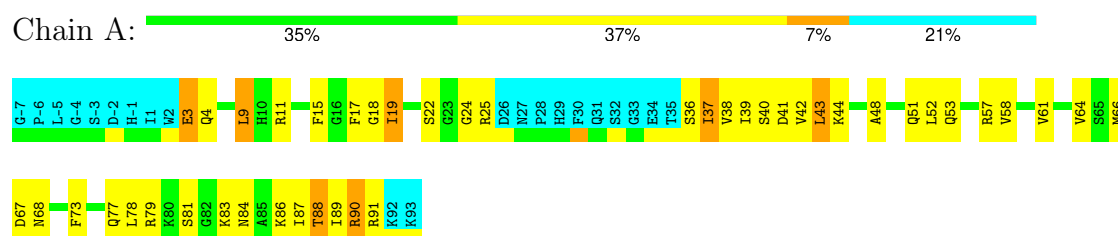
4.2.3 Score per residue for model 3

- Molecule 1: Tight junction protein ZO-1



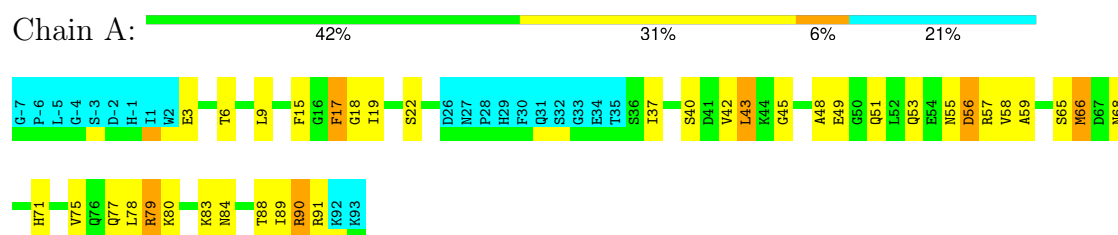
4.2.4 Score per residue for model 4 (medoid)

- Molecule 1: Tight junction protein ZO-1



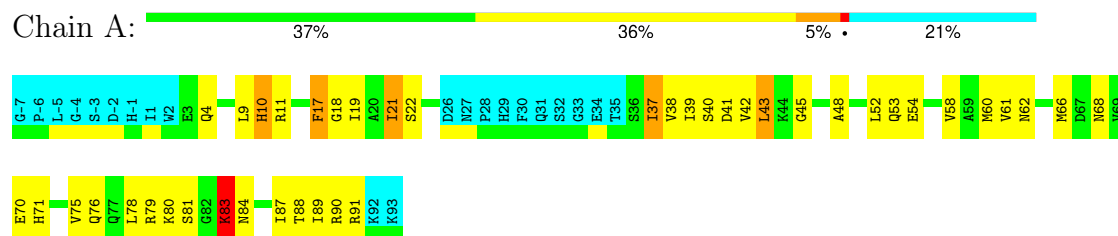
4.2.5 Score per residue for model 5

- Molecule 1: Tight junction protein ZO-1



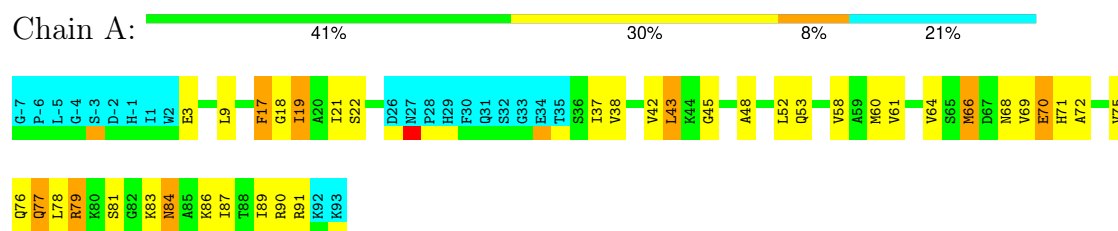
4.2.6 Score per residue for model 6

- Molecule 1: Tight junction protein ZO-1



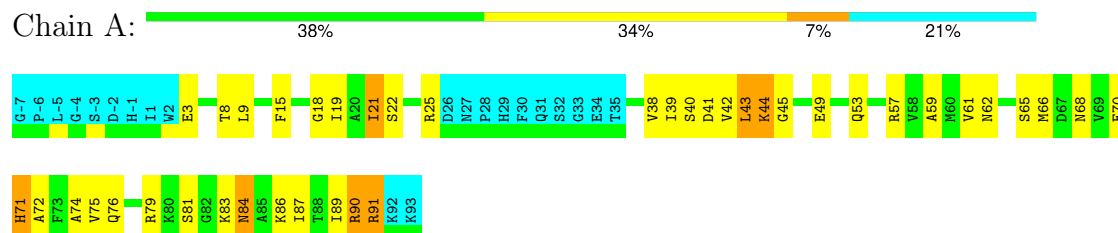
4.2.7 Score per residue for model 7

- Molecule 1: Tight junction protein ZO-1



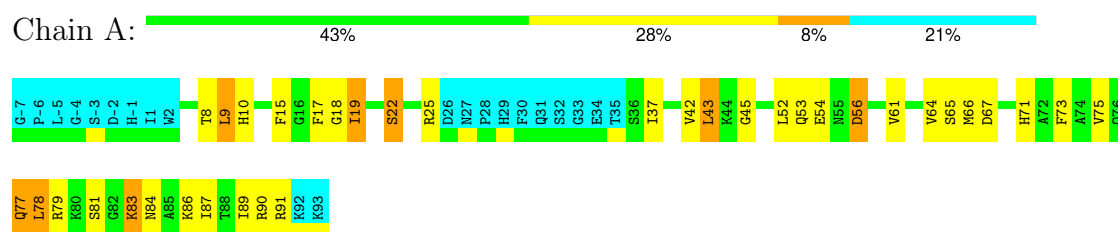
4.2.8 Score per residue for model 8

- Molecule 1: Tight junction protein ZO-1



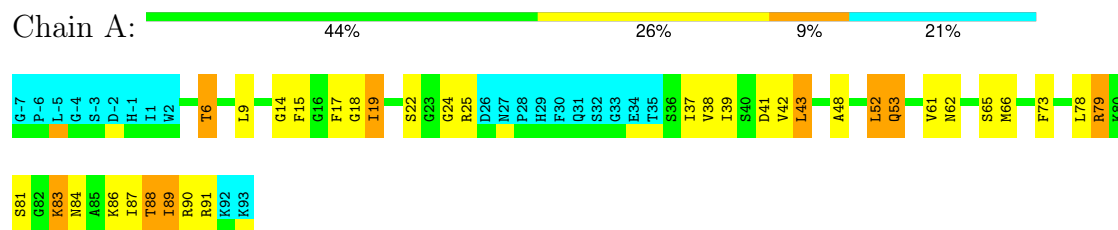
4.2.9 Score per residue for model 9

- Molecule 1: Tight junction protein ZO-1



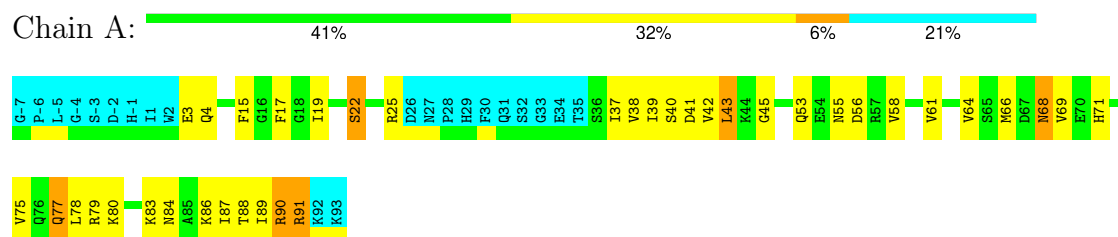
4.2.14 Score per residue for model 14

- Molecule 1: Tight junction protein ZO-1



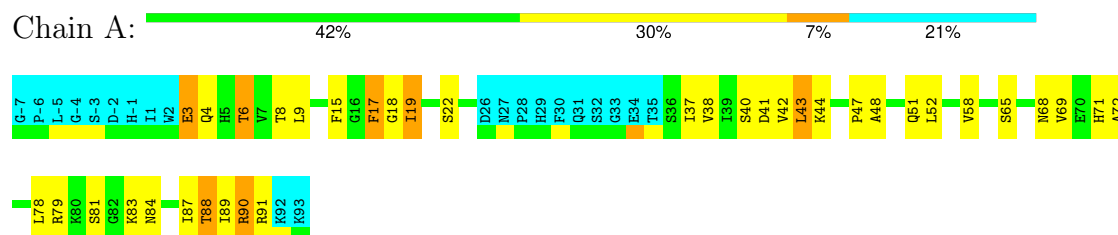
4.2.15 Score per residue for model 15

- Molecule 1: Tight junction protein ZO-1



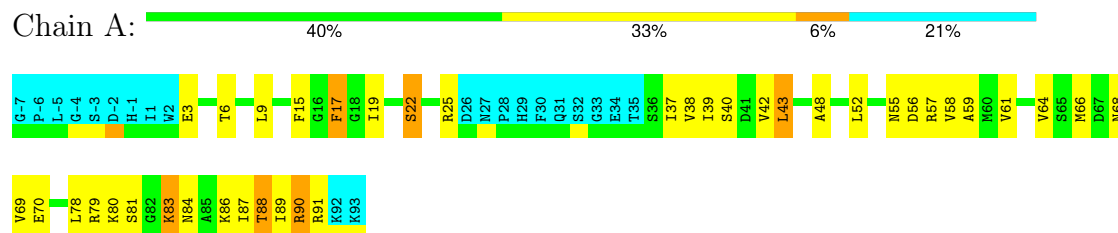
4.2.16 Score per residue for model 16

- Molecule 1: Tight junction protein ZO-1



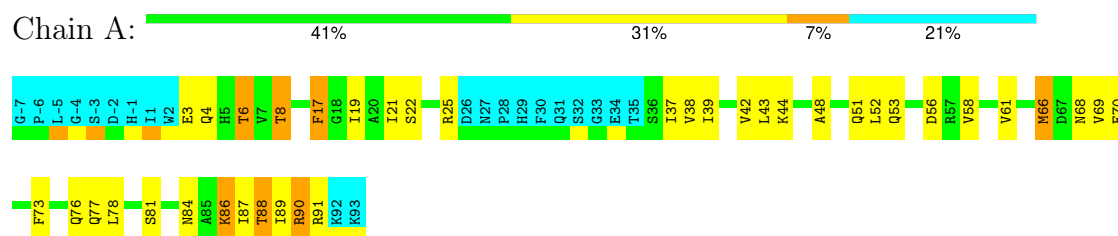
4.2.17 Score per residue for model 17

- Molecule 1: Tight junction protein ZO-1



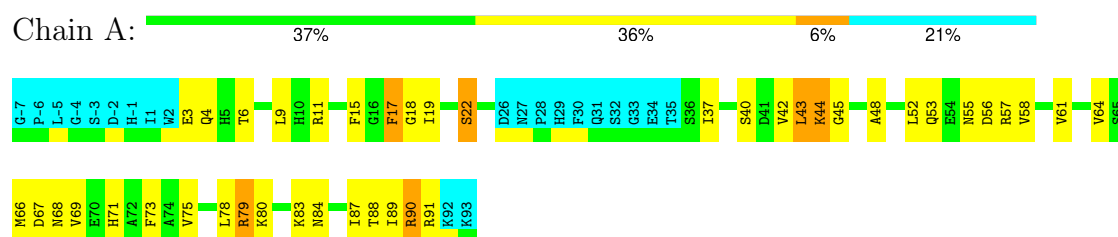
4.2.18 Score per residue for model 18

- Molecule 1: Tight junction protein ZO-1



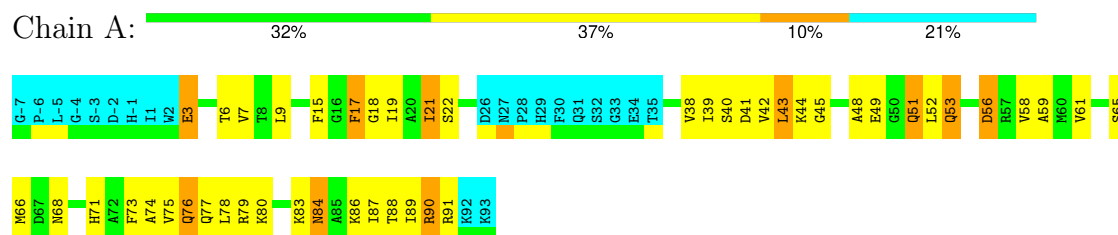
4.2.19 Score per residue for model 19

- Molecule 1: Tight junction protein ZO-1



4.2.20 Score per residue for model 20

- Molecule 1: Tight junction protein ZO-1



5 Refinement protocol and experimental data overview

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

Of the 200 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
CNS	structure solution	
CNS	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	1048
Number of shifts mapped to atoms	1048
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	83%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	594	606	603	27±4
All	All	11880	12120	12060	538

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 22.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:19:ILE:HG22	1:A:42:VAL:HG12	0.98	1.33	16	19
1:A:9:LEU:HD13	1:A:48:ALA:HB2	0.93	1.41	1	9
1:A:61:VAL:HG12	1:A:87:ILE:HG23	0.92	1.38	20	3
1:A:61:VAL:HG22	1:A:87:ILE:HG23	0.91	1.38	19	4
1:A:19:ILE:HG23	1:A:42:VAL:HG12	0.86	1.47	14	1
1:A:19:ILE:HG22	1:A:42:VAL:CG1	0.85	2.02	15	19
1:A:15:PHE:CD1	1:A:43:LEU:HD13	0.83	2.08	8	6
1:A:15:PHE:CD2	1:A:43:LEU:HD13	0.82	2.08	10	3
1:A:15:PHE:CD1	1:A:43:LEU:HD22	0.82	2.08	5	4
1:A:71:HIS:O	1:A:75:VAL:HG23	0.80	1.77	7	9
1:A:61:VAL:O	1:A:64:VAL:HG12	0.78	1.79	19	4
1:A:61:VAL:HG13	1:A:87:ILE:CD1	0.77	2.09	9	2
1:A:78:LEU:HD12	1:A:79:ARG:N	0.76	1.94	6	11
1:A:37:ILE:HD11	1:A:69:VAL:HG23	0.76	1.58	15	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:61:VAL:HG23	1:A:87:ILE:CD1	0.74	2.13	8	1
1:A:15:PHE:CG	1:A:43:LEU:HD13	0.73	2.18	16	4
1:A:19:ILE:HG21	1:A:52:LEU:HB2	0.71	1.62	16	8
1:A:42:VAL:HG23	1:A:44:LYS:HD3	0.70	1.63	19	1
1:A:59:ALA:HB2	1:A:90:ARG:NE	0.69	2.02	1	5
1:A:58:VAL:HA	1:A:89:ILE:HG22	0.69	1.65	18	11
1:A:37:ILE:HD13	1:A:66:MET:SD	0.69	2.28	18	2
1:A:18:GLY:HA2	1:A:43:LEU:HD21	0.69	1.64	5	15
1:A:37:ILE:HD12	1:A:66:MET:HG3	0.68	1.64	1	1
1:A:37:ILE:HG21	1:A:66:MET:CE	0.68	2.18	4	2
1:A:17:PHE:CZ	1:A:78:LEU:HD22	0.68	2.24	2	2
1:A:15:PHE:CG	1:A:43:LEU:HD22	0.68	2.23	12	4
1:A:61:VAL:CG1	1:A:87:ILE:HG23	0.68	2.19	20	2
1:A:6:THR:HG23	1:A:88:THR:OG1	0.68	1.87	10	4
1:A:70:GLU:OE1	1:A:72:ALA:HB3	0.68	1.89	7	1
1:A:61:VAL:HG13	1:A:87:ILE:HD13	0.67	1.66	9	2
1:A:17:PHE:CD1	1:A:78:LEU:HD13	0.67	2.23	6	1
1:A:58:VAL:HG11	1:A:66:MET:CE	0.66	2.21	3	3
1:A:19:ILE:HD13	1:A:39:ILE:HD12	0.66	1.66	3	2
1:A:64:VAL:HG21	1:A:77:GLN:CG	0.65	2.21	10	2
1:A:61:VAL:HG23	1:A:66:MET:HG3	0.65	1.66	9	4
1:A:9:LEU:HD11	1:A:52:LEU:CD1	0.65	2.22	1	2
1:A:37:ILE:HD11	1:A:69:VAL:CG2	0.64	2.22	15	2
1:A:89:ILE:HD13	1:A:91:ARG:HD2	0.64	1.68	8	2
1:A:21:ILE:HD11	1:A:75:VAL:HG22	0.63	1.70	8	2
1:A:19:ILE:HG23	1:A:48:ALA:HB1	0.63	1.71	16	8
1:A:58:VAL:HG11	1:A:66:MET:HE2	0.63	1.68	17	3
1:A:15:PHE:CD2	1:A:43:LEU:HD22	0.62	2.29	19	4
1:A:66:MET:HE3	1:A:74:ALA:HB1	0.62	1.70	12	1
1:A:58:VAL:HG22	1:A:89:ILE:CG2	0.62	2.24	2	6
1:A:37:ILE:HG22	1:A:66:MET:HB3	0.62	1.70	6	4
1:A:9:LEU:CD1	1:A:87:ILE:HD12	0.62	2.24	4	1
1:A:56:ASP:HB3	1:A:89:ILE:HD13	0.62	1.71	19	8
1:A:6:THR:HG23	1:A:88:THR:HG23	0.62	1.69	18	3
1:A:9:LEU:HD12	1:A:87:ILE:CD1	0.61	2.25	7	6
1:A:66:MET:CE	1:A:74:ALA:HB1	0.61	2.25	12	4
1:A:9:LEU:HD12	1:A:87:ILE:HD13	0.61	1.73	16	5
1:A:37:ILE:HD12	1:A:66:MET:SD	0.61	2.35	17	2
1:A:52:LEU:HD11	1:A:87:ILE:HD12	0.61	1.71	18	1
1:A:37:ILE:HG21	1:A:66:MET:HE2	0.61	1.72	4	2
1:A:3:GLU:O	1:A:90:ARG:HA	0.61	1.96	10	13

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:19:ILE:HG23	1:A:48:ALA:CB	0.60	2.26	16	11
1:A:17:PHE:CE1	1:A:78:LEU:HD12	0.60	2.31	10	2
1:A:52:LEU:CD1	1:A:87:ILE:HD12	0.60	2.27	18	1
1:A:9:LEU:HD22	1:A:48:ALA:HB2	0.60	1.74	4	2
1:A:6:THR:CB	1:A:88:THR:HG23	0.60	2.26	18	1
1:A:9:LEU:HD11	1:A:52:LEU:HD13	0.59	1.74	1	1
1:A:22:SER:O	1:A:37:ILE:HG23	0.59	1.97	3	5
1:A:17:PHE:CE1	1:A:78:LEU:HD22	0.59	2.33	14	1
1:A:17:PHE:CE1	1:A:78:LEU:HD13	0.59	2.32	17	1
1:A:19:ILE:CG2	1:A:42:VAL:HG12	0.59	2.24	13	7
1:A:58:VAL:HG22	1:A:89:ILE:HG22	0.59	1.73	1	4
1:A:37:ILE:HG23	1:A:58:VAL:CG2	0.59	2.28	4	1
1:A:9:LEU:CD1	1:A:48:ALA:HB2	0.58	2.25	1	1
1:A:42:VAL:HG23	1:A:44:LYS:CD	0.58	2.28	19	1
1:A:52:LEU:HD22	1:A:89:ILE:HG21	0.58	1.74	9	3
1:A:6:THR:CG2	1:A:88:THR:HG23	0.58	2.29	18	1
1:A:64:VAL:HG21	1:A:77:GLN:HG2	0.57	1.75	10	3
1:A:37:ILE:HG23	1:A:58:VAL:HG13	0.56	1.78	6	1
1:A:19:ILE:HG23	1:A:42:VAL:CG1	0.56	2.27	14	1
1:A:19:ILE:HG12	1:A:52:LEU:HD12	0.56	1.76	10	2
1:A:7:VAL:HG21	1:A:51:GLN:OE1	0.55	2.01	20	1
1:A:17:PHE:CZ	1:A:78:LEU:HD12	0.55	2.36	10	1
1:A:9:LEU:HD11	1:A:52:LEU:HD11	0.55	1.76	9	4
1:A:17:PHE:CE2	1:A:78:LEU:HD22	0.55	2.36	2	1
1:A:52:LEU:HD11	1:A:87:ILE:HD13	0.55	1.77	16	2
1:A:6:THR:OG1	1:A:88:THR:HG23	0.55	2.01	18	2
1:A:4:GLN:HG2	1:A:88:THR:HG22	0.55	1.78	16	5
1:A:64:VAL:HG21	1:A:77:GLN:CD	0.54	2.23	12	3
1:A:37:ILE:HG23	1:A:58:VAL:CG1	0.54	2.32	6	1
1:A:37:ILE:N	1:A:37:ILE:HD12	0.54	2.17	13	2
1:A:6:THR:HB	1:A:88:THR:HG23	0.54	1.79	20	2
1:A:42:VAL:HG11	1:A:52:LEU:O	0.54	2.03	16	2
1:A:17:PHE:CD2	1:A:78:LEU:HD12	0.54	2.38	9	1
1:A:52:LEU:HD23	1:A:89:ILE:HG21	0.54	1.80	17	3
1:A:58:VAL:CA	1:A:89:ILE:HG22	0.53	2.33	16	8
1:A:37:ILE:HG23	1:A:58:VAL:HG23	0.53	1.80	4	1
1:A:39:ILE:HD13	1:A:53:GLN:O	0.52	2.04	20	2
1:A:61:VAL:HG23	1:A:66:MET:CG	0.52	2.35	11	2
1:A:43:LEU:HD12	1:A:45:GLY:H	0.52	1.64	20	7
1:A:52:LEU:CD2	1:A:89:ILE:HG21	0.52	2.35	17	3
1:A:61:VAL:HG13	1:A:87:ILE:HG13	0.52	1.82	14	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:64:VAL:HG21	1:A:77:GLN:NE2	0.52	2.20	12	2
1:A:19:ILE:HD13	1:A:52:LEU:HD13	0.52	1.81	11	1
1:A:37:ILE:HD11	1:A:69:VAL:O	0.51	2.05	16	1
1:A:18:GLY:CA	1:A:43:LEU:HD21	0.51	2.36	20	8
1:A:61:VAL:HG22	1:A:66:MET:CG	0.51	2.35	17	1
1:A:61:VAL:HG12	1:A:87:ILE:CG2	0.51	2.26	20	1
1:A:71:HIS:O	1:A:75:VAL:HG12	0.51	2.05	3	3
1:A:89:ILE:HD12	1:A:89:ILE:O	0.51	2.06	20	12
1:A:4:GLN:NE2	1:A:59:ALA:HB3	0.51	2.21	13	2
1:A:58:VAL:HG12	1:A:89:ILE:CG2	0.51	2.36	7	2
1:A:59:ALA:HB2	1:A:90:ARG:CD	0.50	2.36	3	1
1:A:21:ILE:HD11	1:A:75:VAL:HB	0.50	1.83	20	1
1:A:59:ALA:HB2	1:A:90:ARG:NH1	0.50	2.21	11	2
1:A:19:ILE:HG23	1:A:48:ALA:HB3	0.50	1.84	18	2
1:A:19:ILE:CG2	1:A:39:ILE:HG23	0.50	2.37	14	1
1:A:4:GLN:CB	1:A:90:ARG:HG3	0.50	2.36	19	2
1:A:6:THR:HG22	1:A:88:THR:HG23	0.50	1.84	12	1
1:A:58:VAL:HG11	1:A:66:MET:HE3	0.49	1.84	3	1
1:A:6:THR:HG23	1:A:88:THR:CG2	0.49	2.35	18	1
1:A:70:GLU:OE2	1:A:72:ALA:HB3	0.49	2.08	8	1
1:A:61:VAL:HG23	1:A:87:ILE:HG12	0.48	1.85	3	1
1:A:19:ILE:HG22	1:A:39:ILE:HG23	0.48	1.84	14	1
1:A:17:PHE:CZ	1:A:87:ILE:HD11	0.48	2.43	2	1
1:A:52:LEU:HD21	1:A:87:ILE:HB	0.48	1.85	3	2
1:A:61:VAL:HG13	1:A:87:ILE:HG12	0.48	1.84	1	1
1:A:19:ILE:HG13	1:A:48:ALA:HB3	0.48	1.85	14	1
1:A:59:ALA:HB2	1:A:90:ARG:HH11	0.47	1.69	11	1
1:A:61:VAL:HG13	1:A:66:MET:HG3	0.47	1.86	17	1
1:A:66:MET:HE1	1:A:74:ALA:HB1	0.47	1.84	8	1
1:A:8:THR:HG23	1:A:86:LYS:HB3	0.47	1.87	1	1
1:A:89:ILE:C	1:A:89:ILE:HD12	0.47	2.30	9	7
1:A:61:VAL:HG12	1:A:66:MET:HG2	0.47	1.85	3	1
1:A:19:ILE:HD12	1:A:19:ILE:O	0.46	2.11	20	1
1:A:52:LEU:HD23	1:A:89:ILE:HG12	0.46	1.87	20	1
1:A:71:HIS:CD2	1:A:72:ALA:N	0.46	2.83	16	1
1:A:38:VAL:HG22	1:A:39:ILE:N	0.46	2.25	17	6
1:A:17:PHE:CD1	1:A:78:LEU:CD1	0.46	2.99	6	1
1:A:37:ILE:HG23	1:A:58:VAL:HB	0.46	1.87	2	1
1:A:78:LEU:HD12	1:A:78:LEU:C	0.46	2.31	6	4
1:A:17:PHE:CZ	1:A:78:LEU:CD1	0.45	3.00	4	1
1:A:61:VAL:HG23	1:A:87:ILE:HD12	0.45	1.88	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:17:PHE:O	1:A:19:ILE:HD12	0.45	2.11	14	1
1:A:59:ALA:HB2	1:A:90:ARG:HD2	0.45	1.88	17	1
1:A:61:VAL:O	1:A:61:VAL:HG13	0.45	2.12	8	7
1:A:17:PHE:CE1	1:A:78:LEU:CD1	0.45	2.99	17	2
1:A:61:VAL:HG23	1:A:87:ILE:HD13	0.45	1.84	8	1
1:A:64:VAL:HG11	1:A:77:GLN:HG3	0.45	1.88	11	1
1:A:89:ILE:HD12	1:A:89:ILE:C	0.45	2.32	18	7
1:A:9:LEU:HD12	1:A:87:ILE:HD12	0.45	1.89	7	1
1:A:74:ALA:O	1:A:78:LEU:HD23	0.45	2.12	10	1
1:A:17:PHE:CE2	1:A:78:LEU:CD1	0.45	3.00	11	1
1:A:4:GLN:HA	1:A:90:ARG:HG3	0.45	1.89	16	3
1:A:75:VAL:HG13	1:A:76:GLN:N	0.44	2.27	13	4
1:A:18:GLY:HA3	1:A:48:ALA:HB3	0.44	1.89	12	1
1:A:21:ILE:C	1:A:21:ILE:HD12	0.44	2.32	18	1
1:A:9:LEU:CD1	1:A:52:LEU:HD11	0.44	2.42	7	2
1:A:61:VAL:HG23	1:A:66:MET:SD	0.44	2.52	1	1
1:A:18:GLY:C	1:A:43:LEU:HD21	0.44	2.32	13	1
1:A:52:LEU:CD1	1:A:87:ILE:HD13	0.44	2.42	7	2
1:A:86:LYS:O	1:A:87:ILE:HD13	0.44	2.13	8	1
1:A:18:GLY:HA2	1:A:43:LEU:HD11	0.44	1.89	11	1
1:A:81:SER:CB	1:A:85:ALA:HB2	0.44	2.42	13	1
1:A:17:PHE:CD2	1:A:78:LEU:HD13	0.44	2.48	11	1
1:A:21:ILE:HD11	1:A:37:ILE:HG21	0.44	1.89	7	1
1:A:87:ILE:HD12	1:A:87:ILE:N	0.44	2.26	6	1
1:A:17:PHE:CD1	1:A:19:ILE:O	0.43	2.71	18	7
1:A:17:PHE:CZ	1:A:87:ILE:CD1	0.43	3.01	2	1
1:A:6:THR:HG22	1:A:88:THR:CG2	0.43	2.43	5	1
1:A:37:ILE:HD12	1:A:66:MET:HB3	0.43	1.90	15	1
1:A:38:VAL:HG12	1:A:39:ILE:N	0.43	2.29	1	6
1:A:21:ILE:HD13	1:A:21:ILE:H	0.43	1.73	13	1
1:A:15:PHE:CG	1:A:43:LEU:CD1	0.43	3.00	13	1
1:A:6:THR:O	1:A:6:THR:HG23	0.43	2.14	17	1
1:A:21:ILE:HG21	1:A:66:MET:HE1	0.43	1.90	6	1
1:A:61:VAL:HG23	1:A:64:VAL:CG1	0.43	2.43	17	1
1:A:19:ILE:CG1	1:A:48:ALA:HB3	0.43	2.43	14	1
1:A:61:VAL:CG2	1:A:87:ILE:HG23	0.43	2.28	19	1
1:A:17:PHE:CD1	1:A:17:PHE:N	0.42	2.84	3	1
1:A:8:THR:HG23	1:A:8:THR:O	0.42	2.13	8	1
1:A:9:LEU:HD11	1:A:52:LEU:HD12	0.42	1.91	14	1
1:A:64:VAL:HG11	1:A:77:GLN:NE2	0.42	2.28	7	1
1:A:61:VAL:HG22	1:A:66:MET:HG2	0.42	1.89	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:81:SER:OG	1:A:85:ALA:HB2	0.42	2.15	13	1
1:A:4:GLN:CA	1:A:90:ARG:HG3	0.42	2.45	19	1
1:A:52:LEU:HD22	1:A:89:ILE:CG2	0.42	2.45	4	2
1:A:42:VAL:HG23	1:A:44:LYS:HG3	0.41	1.92	8	1
1:A:9:LEU:HD22	1:A:47:PRO:O	0.41	2.14	16	1
1:A:10:HIS:CE1	1:A:83:LYS:O	0.41	2.73	6	1
1:A:14:GLY:O	1:A:15:PHE:CG	0.41	2.73	14	1
1:A:9:LEU:CD1	1:A:87:ILE:HD13	0.41	2.45	12	1
1:A:66:MET:SD	1:A:74:ALA:HB1	0.41	2.55	20	1
1:A:58:VAL:HG12	1:A:89:ILE:HG23	0.41	1.91	4	1
1:A:8:THR:HG22	1:A:86:LYS:HB3	0.41	1.93	18	1
1:A:43:LEU:O	1:A:44:LYS:CG	0.41	2.69	3	1
1:A:58:VAL:HG11	1:A:66:MET:SD	0.41	2.56	10	2
1:A:21:ILE:H	1:A:21:ILE:HD13	0.40	1.76	3	1
1:A:91:ARG:N	1:A:91:ARG:CD	0.40	2.83	3	1
1:A:17:PHE:CE2	1:A:78:LEU:HD12	0.40	2.50	9	1
1:A:66:MET:CE	1:A:74:ALA:CB	0.40	2.99	10	1
1:A:37:ILE:N	1:A:37:ILE:CD1	0.40	2.85	13	1
1:A:15:PHE:CE2	1:A:45:GLY:O	0.40	2.74	8	1
1:A:8:THR:O	1:A:8:THR:HG23	0.40	2.16	16	1
1:A:21:ILE:CD1	1:A:75:VAL:HG22	0.40	2.46	6	1
1:A:58:VAL:CG2	1:A:87:ILE:CG2	0.40	2.99	6	1

6.3 Torsion angles

6.3.1 Protein backbone

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	79/100 (79%)	70±1 (89±1%)	5±1 (7±1%)	4±1 (5±1%)	3	26
All	All	1580/2000 (79%)	1402 (89%)	106 (7%)	72 (5%)	3	26

All 6 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	84	ASN	20
1	A	68	ASN	18
1	A	83	LYS	17
1	A	81	SER	15
1	A	15	PHE	1
1	A	24	GLY	1

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	62/80 (78%)	44±2 (71±3%)	18±2 (29±3%)	1	17
All	All	1240/1600 (78%)	879 (71%)	361 (29%)	1	17

All 48 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	22	SER	20
1	A	43	LEU	20
1	A	91	ARG	20
1	A	90	ARG	19
1	A	53	GLN	16
1	A	25	ARG	13
1	A	40	SER	13
1	A	17	PHE	12
1	A	86	LYS	12
1	A	41	ASP	11
1	A	83	LYS	11
1	A	77	GLN	10
1	A	88	THR	10
1	A	80	LYS	9
1	A	44	LYS	8
1	A	57	ARG	8
1	A	51	GLN	8
1	A	65	SER	8
1	A	6	THR	8
1	A	79	ARG	8

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Mol	Chain	Res	Type	Models (Total)
1	A	56	ASP	7
1	A	49	GLU	7
1	A	73	PHE	7
1	A	19	ILE	6
1	A	67	ASP	6
1	A	76	GLN	6
1	A	62	ASN	6
1	A	55	ASN	6
1	A	70	GLU	6
1	A	8	THR	5
1	A	66	MET	5
1	A	9	LEU	5
1	A	3	GLU	5
1	A	21	ILE	5
1	A	84	ASN	5
1	A	11	ARG	4
1	A	54	GLU	4
1	A	36	SER	3
1	A	78	LEU	3
1	A	52	LEU	2
1	A	37	ILE	2
1	A	10	HIS	2
1	A	60	MET	2
1	A	38	VAL	2
1	A	71	HIS	2
1	A	68	ASN	2
1	A	89	ILE	1
1	A	15	PHE	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 83% for the well-defined parts and 79% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

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

Total number of shifts	1048
Number of shifts mapped to atoms	1048
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	92	-0.22 ± 0.16	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	81	-0.36 ± 0.17	None needed (< 0.5 ppm)
$^{13}\text{C}'$	93	-0.22 ± 0.21	None needed (< 0.5 ppm)
^{15}N	86	0.24 ± 0.21	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 83%, i.e. 885 atoms were assigned a chemical shift out of a possible 1060. 0 out of 12 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	386/401 (96%)	160/166 (96%)	153/158 (97%)	73/77 (95%)
Sidechain	481/605 (80%)	329/393 (84%)	152/181 (84%)	0/31 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	18/54 (33%)	15/27 (56%)	3/21 (14%)	0/6 (0%)
Overall	885/1060 (83%)	504/586 (86%)	308/360 (86%)	73/114 (64%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 79%, i.e. 1048 atoms were assigned a chemical shift out of a possible 1328. 0 out of 13 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	463/505 (92%)	192/209 (92%)	185/200 (92%)	86/96 (90%)
Sidechain	564/731 (77%)	385/473 (81%)	179/223 (80%)	0/35 (0%)
Aromatic	21/92 (23%)	17/46 (37%)	4/35 (11%)	0/11 (0%)
Overall	1048/1328 (79%)	594/728 (82%)	368/458 (80%)	86/142 (61%)

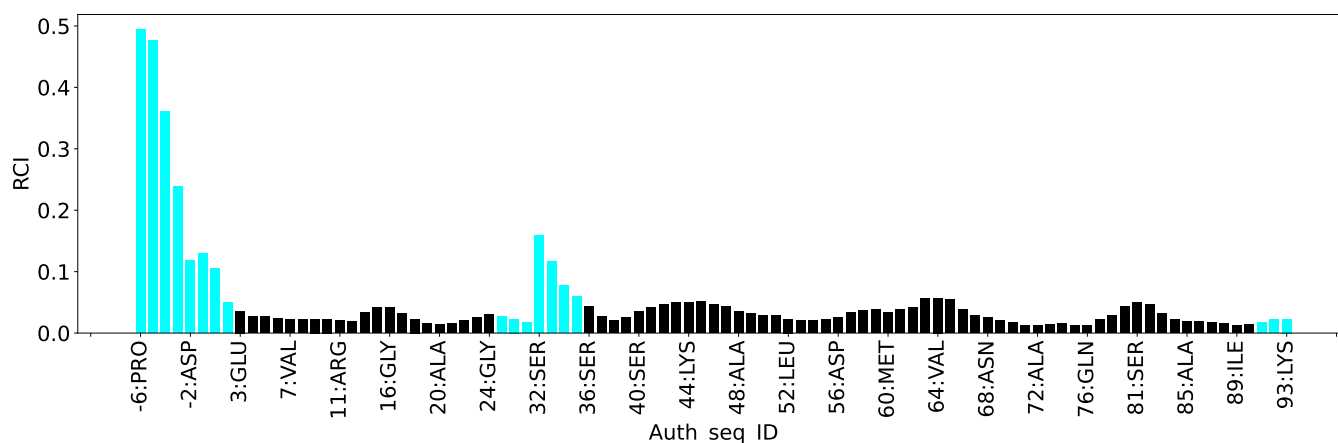
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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	1727
Intra-residue ($ i-j =0$)	234
Sequential ($ i-j =1$)	450
Medium range ($ i-j >1$ and $ i-j <5$)	360
Long range ($ i-j \geq 5$)	639
Inter-chain	0
Hydrogen bond restraints	44
Disulfide bond restraints	0
Total dihedral-angle restraints	108
Number of unmapped restraints	0
Number of restraints per residue	18.4
Number of long range restraints per residue ¹	6.7

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	18.8	0.2
0.2-0.5 (Medium)	42.9	0.5
>0.5 (Large)	91.9	4.67

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)	0.3	1.42
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis ⓘ

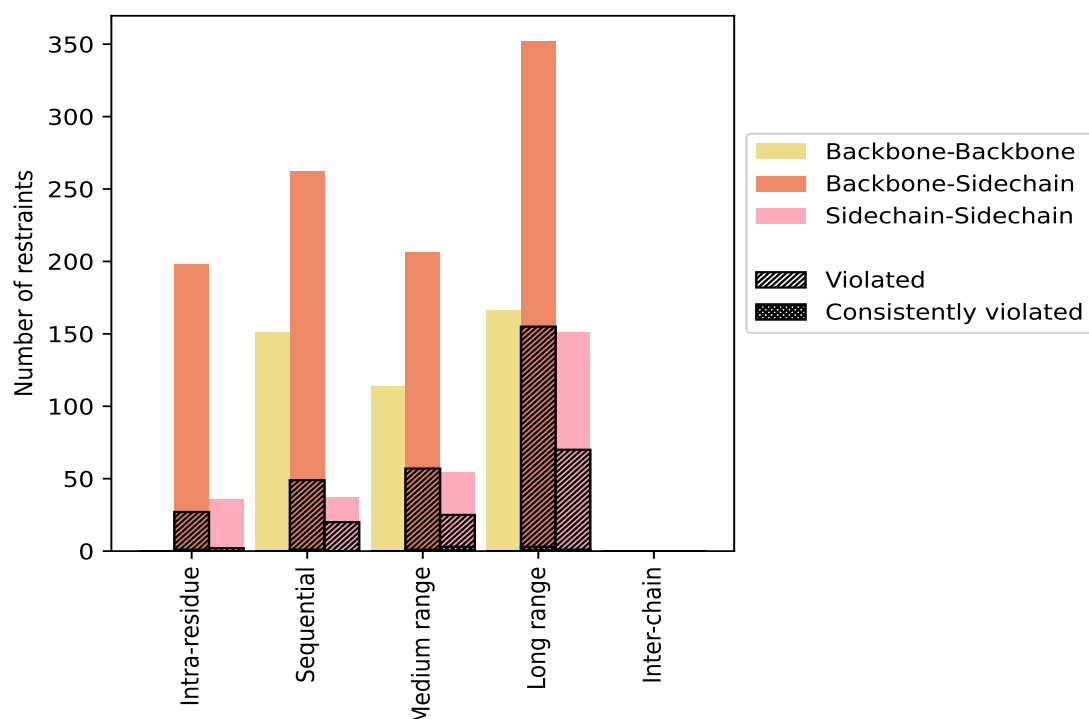
9.1 Summary of distance violations ⓘ

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	234	13.5	29	12.4	1.7	1	0.4	0.1
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	198	11.5	27	13.6	1.6	1	0.5	0.1
Sidechain-Sidechain	36	2.1	2	5.6	0.1	0	0.0	0.0
Sequential ($i-j =1$)	450	26.1	69	15.3	4.0	1	0.2	0.1
Backbone-Backbone	151	8.7	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	262	15.2	49	18.7	2.8	1	0.4	0.1
Sidechain-Sidechain	37	2.1	20	54.1	1.2	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	360	20.8	82	22.8	4.7	4	1.1	0.2
Backbone-Backbone	114	6.6	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	192	11.1	57	29.7	3.3	1	0.5	0.1
Sidechain-Sidechain	54	3.1	25	46.3	1.4	3	5.6	0.2
Long range ($i-j \geq 5$)	639	37.0	225	35.2	13.0	4	0.6	0.2
Backbone-Backbone	166	9.6	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	322	18.6	155	48.1	9.0	3	0.9	0.2
Sidechain-Sidechain	151	8.7	70	46.4	4.1	1	0.7	0.1
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	44	2.5	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1727	100.0	405	23.5	23.5	10	0.6	0.6
Backbone-Backbone	431	25.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	1018	58.9	288	28.3	16.7	6	0.6	0.3
Sidechain-Sidechain	278	16.1	117	42.1	6.8	4	1.4	0.2

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 disulfide 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	8	23	39	62	0	132	0.86	4.59	0.84	0.64
2	12	24	36	84	0	156	0.96	3.68	0.77	0.7
3	11	27	38	93	0	169	0.92	4.47	0.77	0.68
4	12	29	34	83	0	158	0.89	3.27	0.66	0.68
5	13	28	43	95	0	179	0.93	4.06	0.75	0.7
6	10	29	43	91	0	173	0.83	4.33	0.71	0.64
7	14	26	37	76	0	153	0.87	3.89	0.74	0.6
8	12	24	36	103	0	175	0.89	3.67	0.75	0.66
9	11	26	39	63	0	139	0.91	3.91	0.8	0.59
10	9	25	34	66	0	134	0.67	2.29	0.5	0.48

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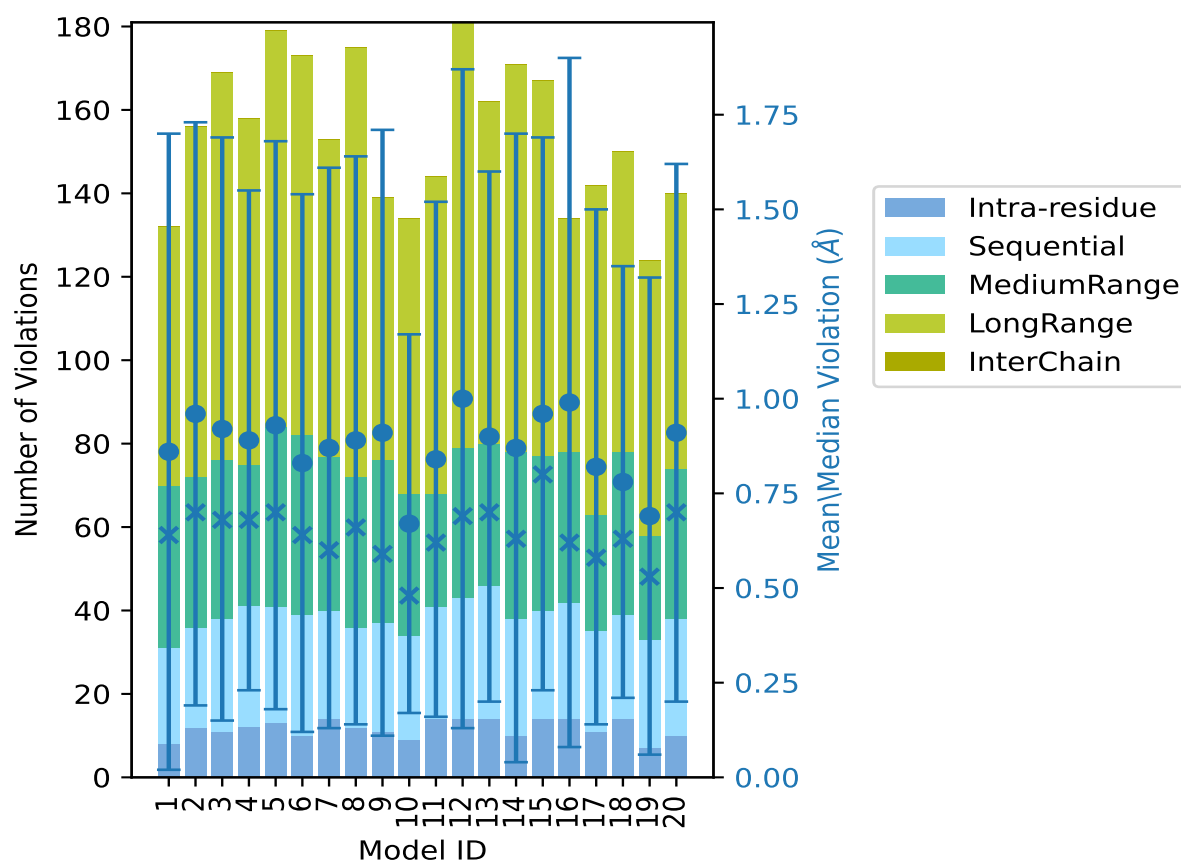
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	14	27	27	76	0	144	0.84	3.16	0.68	0.62
12	14	29	36	102	0	181	1.0	4.22	0.87	0.69
13	14	32	34	82	0	162	0.9	3.6	0.7	0.7
14	10	28	40	93	0	171	0.87	4.67	0.83	0.63
15	14	26	37	90	0	167	0.96	3.33	0.73	0.8
16	14	28	36	56	0	134	0.99	4.49	0.91	0.62
17	11	24	28	79	0	142	0.82	3.1	0.68	0.58
18	14	25	39	72	0	150	0.78	2.94	0.57	0.63
19	7	26	25	66	0	124	0.69	3.73	0.63	0.53
20	10	28	36	66	0	140	0.91	3.67	0.71	0.7

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

⁵Inter-chain restraints, ⁶Standard deviation

9.2.1 Bar graph : Distance Violation statistics for each model ⓘ



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

9.3 Distance violation statistics for the ensemble

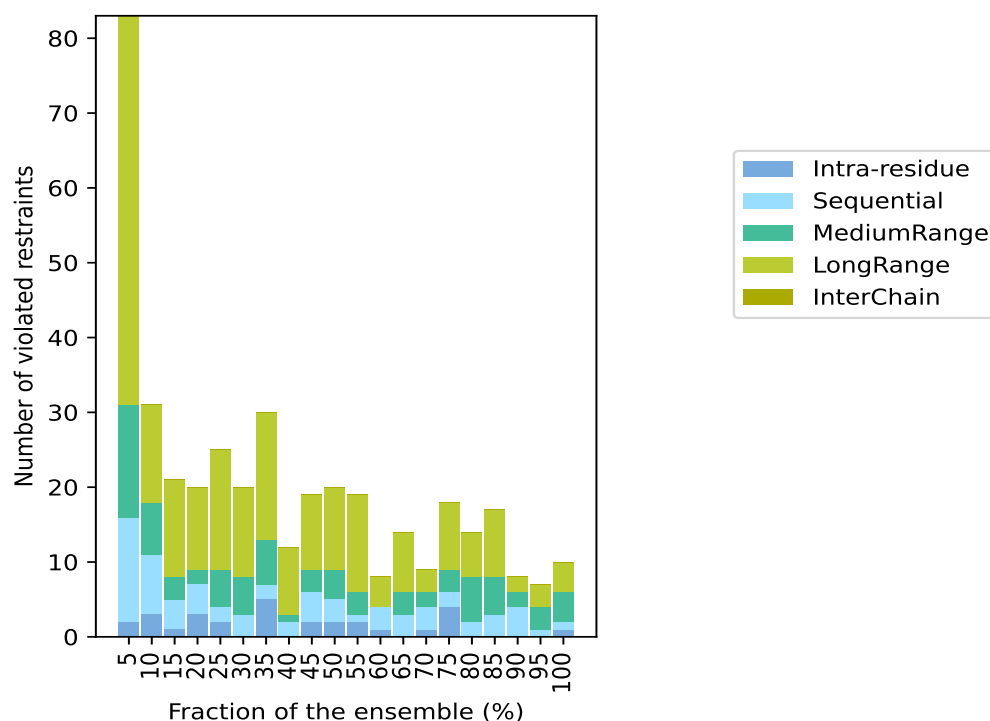
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1278(IR:205, SQ:381, MR:278, LR:414, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
2	14	15	52	0	83	1	5.0
3	8	7	13	0	31	2	10.0
1	4	3	13	0	21	3	15.0
3	4	2	11	0	20	4	20.0
2	2	5	16	0	25	5	25.0
0	3	5	12	0	20	6	30.0
5	2	6	17	0	30	7	35.0
0	2	1	9	0	12	8	40.0
2	4	3	10	0	19	9	45.0
2	3	4	11	0	20	10	50.0
2	1	3	13	0	19	11	55.0
1	3	0	4	0	8	12	60.0
0	3	3	8	0	14	13	65.0
1	3	2	3	0	9	14	70.0
4	2	3	9	0	18	15	75.0
0	2	6	6	0	14	16	80.0
0	3	5	9	0	17	17	85.0
0	4	2	2	0	8	18	90.0
0	1	3	3	0	7	19	95.0
1	1	4	4	0	10	20	100.0

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

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

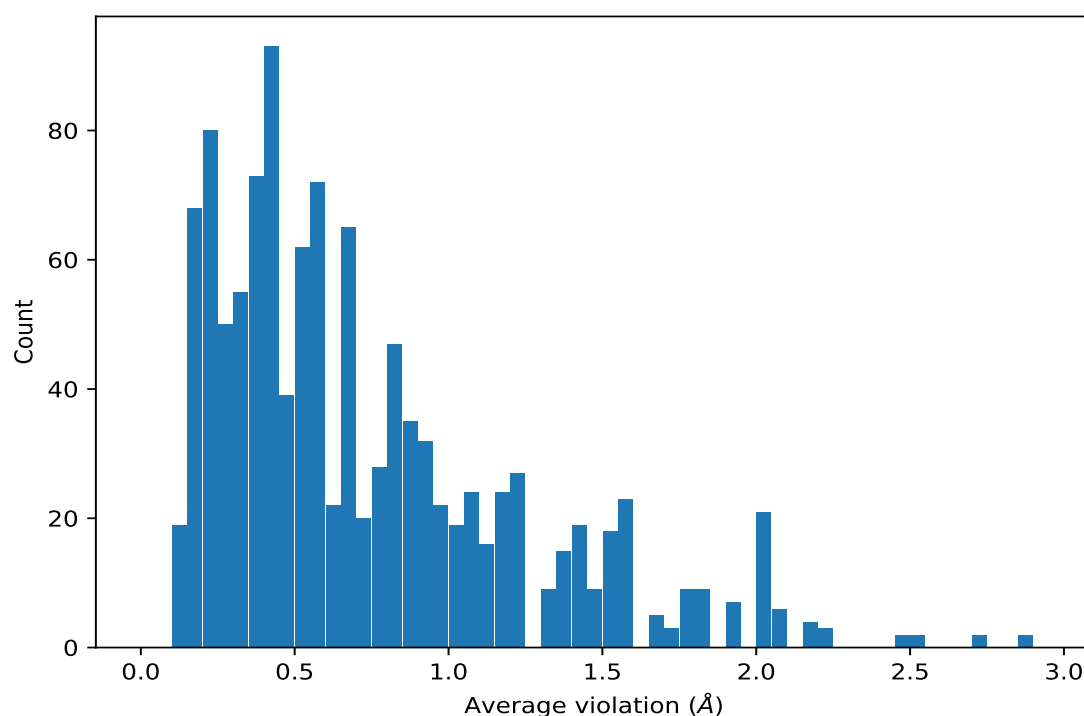
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	20	2.88	1.23	3.0
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	20	2.88	1.23	3.0
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	20	2.71	1.24	2.67
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	20	2.71	1.24	2.67
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	20	2.51	1.24	2.47
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	20	2.51	1.24	2.47
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	20	1.69	0.61	1.68
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	20	1.69	0.61	1.68
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	20	1.56	0.4	1.54
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	20	1.56	0.4	1.54
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	20	0.89	0.27	0.94
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	20	0.89	0.27	0.94
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	20	0.86	0.19	0.9
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	20	0.86	0.19	0.9
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	20	0.86	0.19	0.9
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	20	0.86	0.19	0.9

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	20	0.86	0.19	0.9
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	20	0.86	0.19	0.9
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	20	0.84	0.16	0.86
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	20	0.84	0.16	0.86
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	20	0.84	0.16	0.86
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	20	0.84	0.16	0.86
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	20	0.84	0.16	0.86
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	20	0.84	0.16	0.86
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	20	0.84	0.16	0.86
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	20	0.84	0.16	0.86
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	20	0.84	0.16	0.86
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	20	0.59	0.26	0.58
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	20	0.59	0.26	0.58
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	20	0.59	0.26	0.58
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	20	0.46	0.24	0.44
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	20	0.46	0.24	0.44
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	20	0.46	0.24	0.44
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	20	0.46	0.24	0.44
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	20	0.46	0.24	0.44
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	20	0.46	0.24	0.44
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	19	2.21	1.03	2.66
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	19	2.21	1.03	2.66
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	19	2.21	1.03	2.66
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	19	2.15	1.1	2.07
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	19	2.15	1.1	2.07
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	19	1.84	0.52	2.18
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	19	1.84	0.52	2.18
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	19	1.84	0.52	2.18
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	19	1.78	0.92	1.71
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	19	1.78	0.92	1.71
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	19	1.16	0.49	1.13
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	19	1.16	0.49	1.13
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	19	0.69	0.28	0.74
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	19	0.69	0.28	0.74
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	19	0.69	0.28	0.74
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	19	0.44	0.27	0.42
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	19	0.44	0.27	0.42
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	19	0.44	0.27	0.42
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	18	1.91	0.76	2.1
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	18	1.91	0.76	2.1
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	18	1.91	0.76	2.1
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	18	1.91	0.76	2.1

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	18	1.83	0.83	1.8
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	18	1.83	0.83	1.8
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	18	1.83	0.83	1.8
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	18	1.77	0.83	1.94
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	18	1.77	0.83	1.94
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	18	1.55	0.79	1.58
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	18	1.55	0.79	1.58
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	18	1.55	0.79	1.58
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	18	1.55	0.79	1.58
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	18	1.44	0.59	1.66
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	18	1.44	0.59	1.66
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	18	1.4	0.59	1.44
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	18	1.4	0.59	1.44
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	18	1.4	0.59	1.44
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	18	0.98	0.47	0.99
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	18	0.98	0.47	0.99
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	18	0.98	0.47	0.99
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	18	0.98	0.47	0.99
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	18	0.98	0.47	0.99
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	18	0.98	0.47	0.99
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	18	0.68	0.27	0.76
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	18	0.68	0.27	0.76
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	18	0.68	0.27	0.76
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	17	2.09	0.97	2.65
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	17	2.09	0.97	2.65
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	17	2.09	0.97	2.65
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	17	1.82	0.67	2.06
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	17	1.82	0.67	2.06
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	17	1.82	0.67	2.06
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	17	1.51	0.66	1.48
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	17	1.51	0.66	1.48
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	17	1.42	1.02	1.43
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	17	1.42	1.02	1.43
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	17	1.42	1.02	1.43
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	17	1.37	0.78	1.46
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	17	1.37	0.78	1.46
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	17	1.37	0.78	1.46
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	17	1.37	0.78	1.46
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	17	1.37	0.78	1.46
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	17	1.37	0.78	1.46
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	17	1.21	0.75	1.59
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	17	1.21	0.75	1.59

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	17	1.21	0.75	1.59
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	17	1.11	0.31	1.03
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	17	1.11	0.31	1.03
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	17	1.11	0.31	1.03
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	17	1.06	0.11	1.07
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	17	1.06	0.11	1.07
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	17	0.94	0.05	0.95
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	17	0.94	0.05	0.95
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	17	0.94	0.05	0.95
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	17	0.84	0.51	0.7
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	17	0.84	0.51	0.7
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	17	0.84	0.51	0.7
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	17	0.77	0.47	0.61
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	17	0.77	0.47	0.61
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	17	0.77	0.47	0.61
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	17	0.57	0.24	0.59
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	17	0.57	0.24	0.59
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	17	0.5	0.2	0.54
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	17	0.5	0.2	0.54
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	17	0.5	0.2	0.54
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	17	0.5	0.25	0.48
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	17	0.5	0.25	0.48
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	17	0.5	0.25	0.48
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	17	0.43	0.14	0.45
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	17	0.43	0.14	0.45
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	17	0.43	0.14	0.45
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	17	0.43	0.14	0.45
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	17	0.43	0.14	0.45
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	17	0.43	0.14	0.45
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	17	0.35	0.14	0.3
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	17	0.35	0.14	0.3
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	17	0.35	0.14	0.3
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	17	0.29	0.11	0.32
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	17	0.29	0.11	0.32
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	16	2.19	1.15	2.58
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	16	2.19	1.15	2.58
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	16	1.49	0.78	1.23
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	16	1.49	0.78	1.23
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	16	1.46	0.57	1.68
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	16	1.46	0.57	1.68
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	16	1.46	0.57	1.68
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	16	1.46	0.57	1.68

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	16	1.44	0.64	1.33
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	16	1.44	0.64	1.33
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	16	1.36	0.92	1.26
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	16	1.36	0.92	1.26
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	16	1.36	0.92	1.26
(1,422)	1:69:A:VAL:HG22	1:73:A:PHE:HD1	16	1.23	0.45	1.16
(1,422)	1:69:A:VAL:HG22	1:73:A:PHE:HD2	16	1.23	0.45	1.16
(1,422)	1:69:A:VAL:HG21	1:73:A:PHE:HD1	16	1.23	0.45	1.16
(1,422)	1:69:A:VAL:HG21	1:73:A:PHE:HD2	16	1.23	0.45	1.16
(1,422)	1:69:A:VAL:HG23	1:73:A:PHE:HD1	16	1.23	0.45	1.16
(1,422)	1:69:A:VAL:HG23	1:73:A:PHE:HD2	16	1.23	0.45	1.16
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	16	1.15	0.06	1.18
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	16	1.15	0.06	1.18
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	16	1.15	0.06	1.18
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	16	1.09	1.09	0.42
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	16	1.09	1.09	0.42
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	16	1.03	0.51	1.19
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	16	1.03	0.51	1.19
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	16	1.03	0.51	1.19
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	16	1.03	0.51	1.19
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	16	1.03	0.51	1.19
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	16	1.03	0.51	1.19
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	16	0.88	0.79	0.4
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	16	0.88	0.79	0.4
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	16	0.88	0.79	0.4
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	16	0.83	0.42	0.72
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	16	0.83	0.42	0.72
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	16	0.51	0.16	0.5
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	16	0.51	0.16	0.5
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	16	0.51	0.16	0.5
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	16	0.47	0.18	0.48
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	16	0.47	0.18	0.48
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	16	0.47	0.18	0.48
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	16	0.42	0.24	0.39
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	16	0.42	0.24	0.39
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	16	0.42	0.24	0.39
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	16	0.42	0.24	0.39
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	16	0.42	0.24	0.39
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	16	0.42	0.24	0.39
(1,129)	1:60:A:MET:HE1	1:62:A:ASN:HA	15	2.0	0.87	2.45
(1,129)	1:60:A:MET:HE2	1:62:A:ASN:HA	15	2.0	0.87	2.45
(1,129)	1:60:A:MET:HE3	1:62:A:ASN:HA	15	2.0	0.87	2.45

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,893)	1:35:A:THR:HG21	1:68:A:ASN:H	15	1.42	0.61	1.44
(1,893)	1:35:A:THR:HG22	1:68:A:ASN:H	15	1.42	0.61	1.44
(1,893)	1:35:A:THR:HG23	1:68:A:ASN:H	15	1.42	0.61	1.44
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG2	15	1.34	0.59	1.08
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG3	15	1.34	0.59	1.08
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG2	15	1.34	0.59	1.08
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG3	15	1.34	0.59	1.08
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG2	15	1.34	0.59	1.08
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG3	15	1.34	0.59	1.08
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE2	15	1.19	0.54	1.31
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE3	15	1.19	0.54	1.31
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG21	15	1.19	0.67	1.12
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG22	15	1.19	0.67	1.12
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG23	15	1.19	0.67	1.12
(1,781)	1:21:A:ILE:HG21	1:75:A:VAL:H	15	1.07	0.52	1.05
(1,781)	1:21:A:ILE:HG22	1:75:A:VAL:H	15	1.07	0.52	1.05
(1,781)	1:21:A:ILE:HG23	1:75:A:VAL:H	15	1.07	0.52	1.05
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG2	15	0.75	0.21	0.8
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG3	15	0.75	0.21	0.8
(1,1484)	1:60:A:MET:HE1	1:64:A:VAL:H	15	0.69	0.36	0.65
(1,1484)	1:60:A:MET:HE2	1:64:A:VAL:H	15	0.69	0.36	0.65
(1,1484)	1:60:A:MET:HE3	1:64:A:VAL:H	15	0.69	0.36	0.65
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG2	15	0.57	0.3	0.48
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG3	15	0.57	0.3	0.48
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG2	15	0.57	0.3	0.48
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG3	15	0.57	0.3	0.48
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG2	15	0.57	0.3	0.48
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG3	15	0.57	0.3	0.48
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB2	15	0.5	0.17	0.52
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB3	15	0.5	0.17	0.52
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD11	15	0.49	0.2	0.43
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD12	15	0.49	0.2	0.43
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD13	15	0.49	0.2	0.43
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB1	15	0.43	0.03	0.44
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB2	15	0.43	0.03	0.44
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB3	15	0.43	0.03	0.44
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB1	15	0.43	0.03	0.44
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB2	15	0.43	0.03	0.44
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB3	15	0.43	0.03	0.44
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB1	15	0.43	0.03	0.44
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB2	15	0.43	0.03	0.44
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB3	15	0.43	0.03	0.44

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD2	15	0.42	0.2	0.44
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD3	15	0.42	0.2	0.44
(1,313)	1:52:A:LEU:HD11	1:89:A:ILE:HB	15	0.41	0.19	0.37
(1,313)	1:52:A:LEU:HD12	1:89:A:ILE:HB	15	0.41	0.19	0.37
(1,313)	1:52:A:LEU:HD13	1:89:A:ILE:HB	15	0.41	0.19	0.37
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD11	15	0.4	0.22	0.34
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD12	15	0.4	0.22	0.34
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD13	15	0.4	0.22	0.34
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG2	15	0.39	0.1	0.4
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG3	15	0.39	0.1	0.4
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG11	15	0.37	0.01	0.37
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG12	15	0.37	0.01	0.37
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG13	15	0.37	0.01	0.37
(1,136)	1:58:A:VAL:HG21	1:59:A:ALA:HA	15	0.19	0.01	0.19
(1,136)	1:58:A:VAL:HG22	1:59:A:ALA:HA	15	0.19	0.01	0.19
(1,136)	1:58:A:VAL:HG23	1:59:A:ALA:HA	15	0.19	0.01	0.19
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE2	14	1.51	0.74	1.62
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE3	14	1.51	0.74	1.62
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG21	14	1.19	0.47	1.17
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG22	14	1.19	0.47	1.17
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG23	14	1.19	0.47	1.17
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG21	14	1.19	0.47	1.17
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG22	14	1.19	0.47	1.17
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG23	14	1.19	0.47	1.17
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG21	14	1.19	0.47	1.17
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG22	14	1.19	0.47	1.17
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG23	14	1.19	0.47	1.17
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD2	14	1.07	0.6	1.08
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD3	14	1.07	0.6	1.08
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG2	14	1.0	0.19	1.04
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG3	14	1.0	0.19	1.04
(1,1506)	1:7:A:VAL:HG11	1:87:A:ILE:HB	14	0.96	0.22	0.96
(1,1506)	1:7:A:VAL:HG12	1:87:A:ILE:HB	14	0.96	0.22	0.96
(1,1506)	1:7:A:VAL:HG13	1:87:A:ILE:HB	14	0.96	0.22	0.96
(1,1506)	1:7:A:VAL:HG21	1:87:A:ILE:HB	14	0.96	0.22	0.96
(1,1506)	1:7:A:VAL:HG22	1:87:A:ILE:HB	14	0.96	0.22	0.96
(1,1506)	1:7:A:VAL:HG23	1:87:A:ILE:HB	14	0.96	0.22	0.96
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE2	14	0.69	0.22	0.68
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE3	14	0.69	0.22	0.68
(1,1094)	1:54:A:GLU:HG2	1:55:A:ASN:H	14	0.64	0.15	0.68
(1,1094)	1:54:A:GLU:HG3	1:55:A:ASN:H	14	0.64	0.15	0.68
(1,1505)	1:7:A:VAL:HG11	1:87:A:ILE:H	14	0.57	0.11	0.58

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1505)	1:7:A:VAL:HG12	1:87:A:ILE:H	14	0.57	0.11	0.58
(1,1505)	1:7:A:VAL:HG13	1:87:A:ILE:H	14	0.57	0.11	0.58
(1,1505)	1:7:A:VAL:HG21	1:87:A:ILE:H	14	0.57	0.11	0.58
(1,1505)	1:7:A:VAL:HG22	1:87:A:ILE:H	14	0.57	0.11	0.58
(1,1505)	1:7:A:VAL:HG23	1:87:A:ILE:H	14	0.57	0.11	0.58
(1,1358)	1:79:A:ARG:HG2	1:80:A:LYS:H	14	0.37	0.12	0.35
(1,1358)	1:79:A:ARG:HG3	1:80:A:LYS:H	14	0.37	0.12	0.35
(1,612)	1:6:A:THR:HG21	1:87:A:ILE:H	13	1.77	0.68	2.04
(1,612)	1:6:A:THR:HG22	1:87:A:ILE:H	13	1.77	0.68	2.04
(1,612)	1:6:A:THR:HG23	1:87:A:ILE:H	13	1.77	0.68	2.04
(1,551)	1:1:A:ILE:HD11	1:2:A:TRP:H	13	1.08	0.55	1.37
(1,551)	1:1:A:ILE:HD12	1:2:A:TRP:H	13	1.08	0.55	1.37
(1,551)	1:1:A:ILE:HD13	1:2:A:TRP:H	13	1.08	0.55	1.37
(1,1270)	1:70:A:GLU:HG2	1:74:A:ALA:H	13	1.05	0.29	1.17
(1,1270)	1:70:A:GLU:HG3	1:74:A:ALA:H	13	1.05	0.29	1.17
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG21	13	1.04	0.53	1.1
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG22	13	1.04	0.53	1.1
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG23	13	1.04	0.53	1.1
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE2	13	0.94	0.47	1.11
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE3	13	0.94	0.47	1.11
(1,290)	1:44:A:LYS:HD2	1:49:A:GLU:HB3	13	0.88	0.31	0.89
(1,290)	1:44:A:LYS:HD3	1:49:A:GLU:HB3	13	0.88	0.31	0.89
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG2	13	0.8	0.44	0.75
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG3	13	0.8	0.44	0.75
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG2	13	0.8	0.44	0.75
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG3	13	0.8	0.44	0.75
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE2	13	0.79	0.28	0.9
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE3	13	0.79	0.28	0.9
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG2	13	0.77	0.28	0.85
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG3	13	0.77	0.28	0.85
(1,1564)	1:34:A:GLU:HG2	1:36:A:SER:H	13	0.61	0.25	0.54
(1,1564)	1:34:A:GLU:HG3	1:36:A:SER:H	13	0.61	0.25	0.54
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG2	13	0.57	0.35	0.5
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG3	13	0.57	0.35	0.5
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG2	13	0.57	0.35	0.5
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG3	13	0.57	0.35	0.5
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG2	13	0.57	0.35	0.5
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG3	13	0.57	0.35	0.5
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG21	13	0.5	0.23	0.55
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG22	13	0.5	0.23	0.55
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG23	13	0.5	0.23	0.55
(1,948)	1:38:A:VAL:HG21	1:39:A:ILE:H	13	0.37	0.09	0.37

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,948)	1:38:A:VAL:HG22	1:39:A:ILE:H	13	0.37	0.09	0.37
(1,948)	1:38:A:VAL:HG23	1:39:A:ILE:H	13	0.37	0.09	0.37
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB2	13	0.35	0.2	0.29
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB3	13	0.35	0.2	0.29
(1,783)	1:21:A:ILE:HD11	1:38:A:VAL:H	12	1.35	0.54	1.38
(1,783)	1:21:A:ILE:HD12	1:38:A:VAL:H	12	1.35	0.54	1.38
(1,783)	1:21:A:ILE:HD13	1:38:A:VAL:H	12	1.35	0.54	1.38
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG2	12	1.21	0.15	1.23
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG3	12	1.21	0.15	1.23
(1,118)	1:37:A:ILE:HG12	1:74:A:ALA:HA	12	1.1	0.41	1.14
(1,118)	1:37:A:ILE:HG13	1:74:A:ALA:HA	12	1.1	0.41	1.14
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG2	12	0.81	0.07	0.82
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG3	12	0.81	0.07	0.82
(1,413)	1:21:A:ILE:HG21	1:38:A:VAL:H	12	0.7	0.36	0.66
(1,413)	1:21:A:ILE:HG22	1:38:A:VAL:H	12	0.7	0.36	0.66
(1,413)	1:21:A:ILE:HG23	1:38:A:VAL:H	12	0.7	0.36	0.66
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG2	12	0.49	0.24	0.55
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG3	12	0.49	0.24	0.55
(1,178)	1:79:A:ARG:HD2	1:80:A:LYS:HA	12	0.46	0.32	0.42
(1,178)	1:79:A:ARG:HD3	1:80:A:LYS:HA	12	0.46	0.32	0.42
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG11	12	0.35	0.15	0.32
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG12	12	0.35	0.15	0.32
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG13	12	0.35	0.15	0.32
(1,335)	1:6:A:THR:HG21	1:86:A:LYS:HG2	11	1.92	0.15	1.91
(1,335)	1:6:A:THR:HG22	1:86:A:LYS:HG2	11	1.92	0.15	1.91
(1,335)	1:6:A:THR:HG23	1:86:A:LYS:HG2	11	1.92	0.15	1.91
(1,208)	1:39:A:ILE:HD11	1:56:A:ASP:HB3	11	1.56	0.95	1.64
(1,208)	1:39:A:ILE:HD12	1:56:A:ASP:HB3	11	1.56	0.95	1.64
(1,208)	1:39:A:ILE:HD13	1:56:A:ASP:HB3	11	1.56	0.95	1.64
(1,445)	1:21:A:ILE:HD11	1:37:A:ILE:HB	11	1.54	0.72	1.59
(1,445)	1:21:A:ILE:HD12	1:37:A:ILE:HB	11	1.54	0.72	1.59
(1,445)	1:21:A:ILE:HD13	1:37:A:ILE:HB	11	1.54	0.72	1.59
(1,192)	1:8:A:THR:HG21	1:84:A:ASN:HB3	11	1.47	0.65	1.65
(1,192)	1:8:A:THR:HG22	1:84:A:ASN:HB3	11	1.47	0.65	1.65
(1,192)	1:8:A:THR:HG23	1:84:A:ASN:HB3	11	1.47	0.65	1.65
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB2	11	1.43	0.6	1.6
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB3	11	1.43	0.6	1.6
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB2	11	1.43	0.6	1.6
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB3	11	1.43	0.6	1.6
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB2	11	1.43	0.6	1.6
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB3	11	1.43	0.6	1.6
(1,250)	1:6:A:THR:HG21	1:86:A:LYS:HB3	11	1.31	0.37	1.22

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,250)	1:6:A:THR:HG22	1:86:A:LYS:HB3	11	1.31	0.37	1.22
(1,250)	1:6:A:THR:HG23	1:86:A:LYS:HB3	11	1.31	0.37	1.22
(1,506)	1:39:A:ILE:HD11	1:89:A:ILE:HA	11	1.22	1.39	0.76
(1,506)	1:39:A:ILE:HD12	1:89:A:ILE:HA	11	1.22	1.39	0.76
(1,506)	1:39:A:ILE:HD13	1:89:A:ILE:HA	11	1.22	1.39	0.76
(1,1213)	1:60:A:MET:HE1	1:63:A:GLY:H	11	1.21	0.49	1.31
(1,1213)	1:60:A:MET:HE2	1:63:A:GLY:H	11	1.21	0.49	1.31
(1,1213)	1:60:A:MET:HE3	1:63:A:GLY:H	11	1.21	0.49	1.31
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD11	11	1.06	0.18	1.07
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD12	11	1.06	0.18	1.07
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD13	11	1.06	0.18	1.07
(1,371)	1:6:A:THR:HG21	1:86:A:LYS:HB2	11	1.03	0.33	0.99
(1,371)	1:6:A:THR:HG22	1:86:A:LYS:HB2	11	1.03	0.33	0.99
(1,371)	1:6:A:THR:HG23	1:86:A:LYS:HB2	11	1.03	0.33	0.99
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD11	11	0.93	0.29	1.03
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD12	11	0.93	0.29	1.03
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD13	11	0.93	0.29	1.03
(1,121)	1:21:A:ILE:HD11	1:74:A:ALA:HA	11	0.89	0.41	0.86
(1,121)	1:21:A:ILE:HD12	1:74:A:ALA:HA	11	0.89	0.41	0.86
(1,121)	1:21:A:ILE:HD13	1:74:A:ALA:HA	11	0.89	0.41	0.86
(1,134)	1:35:A:THR:HG21	1:68:A:ASN:HA	11	0.86	0.59	0.68
(1,134)	1:35:A:THR:HG22	1:68:A:ASN:HA	11	0.86	0.59	0.68
(1,134)	1:35:A:THR:HG23	1:68:A:ASN:HA	11	0.86	0.59	0.68
(1,611)	1:6:A:THR:HG21	1:7:A:VAL:H	11	0.78	0.07	0.76
(1,611)	1:6:A:THR:HG22	1:7:A:VAL:H	11	0.78	0.07	0.76
(1,611)	1:6:A:THR:HG23	1:7:A:VAL:H	11	0.78	0.07	0.76
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG21	11	0.56	0.03	0.57
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG22	11	0.56	0.03	0.57
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG23	11	0.56	0.03	0.57
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG2	11	0.53	0.31	0.45
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG3	11	0.53	0.31	0.45
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG2	11	0.53	0.31	0.45
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG3	11	0.53	0.31	0.45
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG2	11	0.53	0.31	0.45
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG3	11	0.53	0.31	0.45
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG2	11	0.36	0.13	0.39
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG3	11	0.36	0.13	0.39
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG2	11	0.35	0.18	0.31
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG3	11	0.35	0.18	0.31
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG2	11	0.35	0.18	0.31
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG3	11	0.35	0.18	0.31
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG2	11	0.35	0.18	0.31

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG3	11	0.35	0.18	0.31
(1,1585)	1:42:A:VAL:HG11	1:49:A:GLU:HB2	11	0.25	0.1	0.23
(1,1585)	1:42:A:VAL:HG12	1:49:A:GLU:HB2	11	0.25	0.1	0.23
(1,1585)	1:42:A:VAL:HG13	1:49:A:GLU:HB2	11	0.25	0.1	0.23
(1,1585)	1:42:A:VAL:HG21	1:49:A:GLU:HB2	11	0.25	0.1	0.23
(1,1585)	1:42:A:VAL:HG22	1:49:A:GLU:HB2	11	0.25	0.1	0.23
(1,1585)	1:42:A:VAL:HG23	1:49:A:GLU:HB2	11	0.25	0.1	0.23
(1,644)	1:8:A:THR:HG21	1:85:A:ALA:H	10	1.68	0.38	1.82
(1,644)	1:8:A:THR:HG22	1:85:A:ALA:H	10	1.68	0.38	1.82
(1,644)	1:8:A:THR:HG23	1:85:A:ALA:H	10	1.68	0.38	1.82
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG21	10	1.24	0.66	1.28
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG22	10	1.24	0.66	1.28
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG23	10	1.24	0.66	1.28
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG21	10	1.24	0.66	1.28
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG22	10	1.24	0.66	1.28
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG23	10	1.24	0.66	1.28
(1,917)	1:37:A:ILE:HG12	1:66:A:MET:H	10	1.23	0.6	1.16
(1,917)	1:37:A:ILE:HG13	1:66:A:MET:H	10	1.23	0.6	1.16
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG2	10	1.01	0.41	0.93
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG3	10	1.01	0.41	0.93
(1,641)	1:8:A:THR:HG21	1:9:A:LEU:H	10	0.88	0.15	0.92
(1,641)	1:8:A:THR:HG22	1:9:A:LEU:H	10	0.88	0.15	0.92
(1,641)	1:8:A:THR:HG23	1:9:A:LEU:H	10	0.88	0.15	0.92
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG12	10	0.88	0.58	0.96
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG13	10	0.88	0.58	0.96
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD21	10	0.7	0.35	0.75
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD22	10	0.7	0.35	0.75
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD23	10	0.7	0.35	0.75
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG2	10	0.68	0.24	0.66
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG3	10	0.68	0.24	0.66
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD11	10	0.63	0.32	0.56
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD12	10	0.63	0.32	0.56
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD13	10	0.63	0.32	0.56
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG2	10	0.61	0.17	0.64
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG3	10	0.61	0.17	0.64
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD11	10	0.57	0.29	0.48
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD12	10	0.57	0.29	0.48
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD13	10	0.57	0.29	0.48
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG2	10	0.54	0.1	0.52
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG3	10	0.54	0.1	0.52
(1,328)	1:43:A:LEU:HD11	1:47:A:PRO:HG2	10	0.46	0.11	0.45
(1,328)	1:43:A:LEU:HD12	1:47:A:PRO:HG2	10	0.46	0.11	0.45

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,328)	1:43:A:LEU:HD13	1:47:A:PRO:HG2	10	0.46	0.11	0.45
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE2	10	0.45	0.24	0.42
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE3	10	0.45	0.24	0.42
(1,1574)	1:38:A:VAL:HG11	1:58:A:VAL:H	10	0.44	0.2	0.42
(1,1574)	1:38:A:VAL:HG12	1:58:A:VAL:H	10	0.44	0.2	0.42
(1,1574)	1:38:A:VAL:HG13	1:58:A:VAL:H	10	0.44	0.2	0.42
(1,1574)	1:38:A:VAL:HG21	1:58:A:VAL:H	10	0.44	0.2	0.42
(1,1574)	1:38:A:VAL:HG22	1:58:A:VAL:H	10	0.44	0.2	0.42
(1,1574)	1:38:A:VAL:HG23	1:58:A:VAL:H	10	0.44	0.2	0.42
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD2	10	0.4	0.15	0.42
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD3	10	0.4	0.15	0.42
(1,1255)	1:69:A:VAL:HG21	1:74:A:ALA:H	10	0.37	0.47	0.2
(1,1255)	1:69:A:VAL:HG22	1:74:A:ALA:H	10	0.37	0.47	0.2
(1,1255)	1:69:A:VAL:HG23	1:74:A:ALA:H	10	0.37	0.47	0.2
(1,1423)	1:86:A:LYS:HE2	1:87:A:ILE:H	10	0.36	0.11	0.4
(1,1423)	1:86:A:LYS:HE3	1:87:A:ILE:H	10	0.36	0.11	0.4
(1,1584)	1:42:A:VAL:HG11	1:49:A:GLU:HA	10	0.24	0.07	0.24
(1,1584)	1:42:A:VAL:HG12	1:49:A:GLU:HA	10	0.24	0.07	0.24
(1,1584)	1:42:A:VAL:HG13	1:49:A:GLU:HA	10	0.24	0.07	0.24
(1,1584)	1:42:A:VAL:HG21	1:49:A:GLU:HA	10	0.24	0.07	0.24
(1,1584)	1:42:A:VAL:HG22	1:49:A:GLU:HA	10	0.24	0.07	0.24
(1,1584)	1:42:A:VAL:HG23	1:49:A:GLU:HA	10	0.24	0.07	0.24
(1,1601)	1:52:A:LEU:HD11	1:87:A:ILE:H	10	0.24	0.09	0.24
(1,1601)	1:52:A:LEU:HD12	1:87:A:ILE:H	10	0.24	0.09	0.24
(1,1601)	1:52:A:LEU:HD13	1:87:A:ILE:H	10	0.24	0.09	0.24
(1,1601)	1:52:A:LEU:HD21	1:87:A:ILE:H	10	0.24	0.09	0.24
(1,1601)	1:52:A:LEU:HD22	1:87:A:ILE:H	10	0.24	0.09	0.24
(1,1601)	1:52:A:LEU:HD23	1:87:A:ILE:H	10	0.24	0.09	0.24
(1,919)	1:37:A:ILE:HG12	1:67:A:ASP:H	9	1.56	0.93	2.04
(1,919)	1:37:A:ILE:HG13	1:67:A:ASP:H	9	1.56	0.93	2.04
(1,834)	1:39:A:ILE:HD11	1:53:A:GLN:H	9	1.0	0.31	1.0
(1,834)	1:39:A:ILE:HD12	1:53:A:GLN:H	9	1.0	0.31	1.0
(1,834)	1:39:A:ILE:HD13	1:53:A:GLN:H	9	1.0	0.31	1.0
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD11	9	0.93	0.61	0.74
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD12	9	0.93	0.61	0.74
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD13	9	0.93	0.61	0.74
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD11	9	0.93	0.61	0.74
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD12	9	0.93	0.61	0.74
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD13	9	0.93	0.61	0.74
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD11	9	0.93	0.61	0.74
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD12	9	0.93	0.61	0.74
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD13	9	0.93	0.61	0.74

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1569)	1:38:A:VAL:HG11	1:39:A:ILE:HB	9	0.8	0.14	0.87
(1,1569)	1:38:A:VAL:HG12	1:39:A:ILE:HB	9	0.8	0.14	0.87
(1,1569)	1:38:A:VAL:HG13	1:39:A:ILE:HB	9	0.8	0.14	0.87
(1,1569)	1:38:A:VAL:HG21	1:39:A:ILE:HB	9	0.8	0.14	0.87
(1,1569)	1:38:A:VAL:HG22	1:39:A:ILE:HB	9	0.8	0.14	0.87
(1,1569)	1:38:A:VAL:HG23	1:39:A:ILE:HB	9	0.8	0.14	0.87
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB1	9	0.8	0.31	0.72
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB2	9	0.8	0.31	0.72
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB3	9	0.8	0.31	0.72
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB1	9	0.8	0.31	0.72
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB2	9	0.8	0.31	0.72
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB3	9	0.8	0.31	0.72
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB1	9	0.8	0.31	0.72
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB2	9	0.8	0.31	0.72
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB3	9	0.8	0.31	0.72
(1,1549)	1:21:A:ILE:HG12	1:75:A:VAL:HB	9	0.75	0.46	0.52
(1,1549)	1:21:A:ILE:HG13	1:75:A:VAL:HB	9	0.75	0.46	0.52
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD11	9	0.75	0.32	0.7
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD12	9	0.75	0.32	0.7
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD13	9	0.75	0.32	0.7
(1,954)	1:39:A:ILE:HG21	1:41:A:ASP:H	9	0.74	0.83	0.38
(1,954)	1:39:A:ILE:HG22	1:41:A:ASP:H	9	0.74	0.83	0.38
(1,954)	1:39:A:ILE:HG23	1:41:A:ASP:H	9	0.74	0.83	0.38
(1,782)	1:21:A:ILE:HD11	1:22:A:SER:H	9	0.7	0.21	0.75
(1,782)	1:21:A:ILE:HD12	1:22:A:SER:H	9	0.7	0.21	0.75
(1,782)	1:21:A:ILE:HD13	1:22:A:SER:H	9	0.7	0.21	0.75
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD2	9	0.68	0.39	0.61
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD3	9	0.68	0.39	0.61
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD2	9	0.68	0.39	0.61
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD3	9	0.68	0.39	0.61
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD2	9	0.68	0.39	0.61
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD3	9	0.68	0.39	0.61
(1,112)	1:54:A:GLU:HG2	1:55:A:ASN:HA	9	0.67	0.08	0.69
(1,112)	1:54:A:GLU:HG3	1:55:A:ASN:HA	9	0.67	0.08	0.69
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG2	9	0.67	0.21	0.69
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG3	9	0.67	0.21	0.69
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG2	9	0.5	0.22	0.61
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG3	9	0.5	0.22	0.61
(1,64)	1:21:A:ILE:HD11	1:39:A:ILE:HA	9	0.41	0.15	0.4
(1,64)	1:21:A:ILE:HD12	1:39:A:ILE:HA	9	0.41	0.15	0.4
(1,64)	1:21:A:ILE:HD13	1:39:A:ILE:HA	9	0.41	0.15	0.4
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD11	9	0.37	0.08	0.37

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD12	9	0.37	0.08	0.37
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD13	9	0.37	0.08	0.37
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD11	9	0.37	0.08	0.37
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD12	9	0.37	0.08	0.37
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD13	9	0.37	0.08	0.37
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD11	9	0.37	0.08	0.37
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD12	9	0.37	0.08	0.37
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD13	9	0.37	0.08	0.37
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD2	9	0.35	0.15	0.32
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD3	9	0.35	0.15	0.32
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD2	9	0.31	0.09	0.31
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD3	9	0.31	0.09	0.31
(1,1504)	1:7:A:VAL:HG11	1:51:A:GLN:HA	9	0.31	0.16	0.3
(1,1504)	1:7:A:VAL:HG12	1:51:A:GLN:HA	9	0.31	0.16	0.3
(1,1504)	1:7:A:VAL:HG13	1:51:A:GLN:HA	9	0.31	0.16	0.3
(1,1504)	1:7:A:VAL:HG21	1:51:A:GLN:HA	9	0.31	0.16	0.3
(1,1504)	1:7:A:VAL:HG22	1:51:A:GLN:HA	9	0.31	0.16	0.3
(1,1504)	1:7:A:VAL:HG23	1:51:A:GLN:HA	9	0.31	0.16	0.3
(1,1372)	1:79:A:ARG:HD2	1:80:A:LYS:H	9	0.3	0.16	0.24
(1,1372)	1:79:A:ARG:HD3	1:80:A:LYS:H	9	0.3	0.16	0.24
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE2	8	1.52	0.98	1.8
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE3	8	1.52	0.98	1.8
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE2	8	1.52	0.98	1.8
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE3	8	1.52	0.98	1.8
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE2	8	1.52	0.98	1.8
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE3	8	1.52	0.98	1.8
(1,463)	1:39:A:ILE:HD11	1:56:A:ASP:HB2	8	1.17	0.54	1.06
(1,463)	1:39:A:ILE:HD12	1:56:A:ASP:HB2	8	1.17	0.54	1.06
(1,463)	1:39:A:ILE:HD13	1:56:A:ASP:HB2	8	1.17	0.54	1.06
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD11	8	0.95	0.65	0.66
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD12	8	0.95	0.65	0.66
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD13	8	0.95	0.65	0.66
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD11	8	0.95	0.65	0.66
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD12	8	0.95	0.65	0.66
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD13	8	0.95	0.65	0.66
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD11	8	0.95	0.65	0.66
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD12	8	0.95	0.65	0.66
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD13	8	0.95	0.65	0.66
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD11	8	0.88	0.29	0.97
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD12	8	0.88	0.29	0.97
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD13	8	0.88	0.29	0.97
(1,930)	1:37:A:ILE:HD11	1:71:A:HIS:H	8	0.67	0.35	0.74

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,930)	1:37:A:ILE:HD12	1:71:A:HIS:H	8	0.67	0.35	0.74
(1,930)	1:37:A:ILE:HD13	1:71:A:HIS:H	8	0.67	0.35	0.74
(1,537)	1:8:A:THR:HG21	1:84:A:ASN:HA	8	0.57	0.19	0.6
(1,537)	1:8:A:THR:HG22	1:84:A:ASN:HA	8	0.57	0.19	0.6
(1,537)	1:8:A:THR:HG23	1:84:A:ASN:HA	8	0.57	0.19	0.6
(1,1269)	1:70:A:GLU:HG2	1:73:A:PHE:H	8	0.45	0.08	0.44
(1,1269)	1:70:A:GLU:HG3	1:73:A:PHE:H	8	0.45	0.08	0.44
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB2	8	0.42	0.14	0.43
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB3	8	0.42	0.14	0.43
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB2	8	0.42	0.14	0.43
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB3	8	0.42	0.14	0.43
(1,444)	1:21:A:ILE:HD11	1:74:A:ALA:H	8	0.38	0.23	0.32
(1,444)	1:21:A:ILE:HD12	1:74:A:ALA:H	8	0.38	0.23	0.32
(1,444)	1:21:A:ILE:HD13	1:74:A:ALA:H	8	0.38	0.23	0.32
(1,1565)	1:36:A:SER:HB2	1:68:A:ASN:H	8	0.31	0.17	0.32
(1,1565)	1:36:A:SER:HB3	1:68:A:ASN:H	8	0.31	0.17	0.32
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB2	8	0.29	0.12	0.25
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB3	8	0.29	0.12	0.25
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG11	8	0.26	0.09	0.25
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG12	8	0.26	0.09	0.25
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG13	8	0.26	0.09	0.25
(1,182)	1:39:A:ILE:HD11	1:89:A:ILE:HB	7	1.55	0.99	1.34
(1,182)	1:39:A:ILE:HD12	1:89:A:ILE:HB	7	1.55	0.99	1.34
(1,182)	1:39:A:ILE:HD13	1:89:A:ILE:HB	7	1.55	0.99	1.34
(1,856)	1:25:A:ARG:HG2	1:70:A:GLU:H	7	1.23	0.48	1.32
(1,856)	1:25:A:ARG:HG3	1:70:A:GLU:H	7	1.23	0.48	1.32
(1,937)	1:39:A:ILE:HD11	1:58:A:VAL:H	7	1.17	1.12	0.52
(1,937)	1:39:A:ILE:HD12	1:58:A:VAL:H	7	1.17	1.12	0.52
(1,937)	1:39:A:ILE:HD13	1:58:A:VAL:H	7	1.17	1.12	0.52
(1,642)	1:8:A:THR:HG21	1:10:A:HIS:H	7	1.11	0.62	1.35
(1,642)	1:8:A:THR:HG22	1:10:A:HIS:H	7	1.11	0.62	1.35
(1,642)	1:8:A:THR:HG23	1:10:A:HIS:H	7	1.11	0.62	1.35
(1,219)	1:25:A:ARG:HG2	1:70:A:GLU:HG2	7	0.98	0.36	1.01
(1,219)	1:25:A:ARG:HG2	1:70:A:GLU:HG3	7	0.98	0.36	1.01
(1,219)	1:25:A:ARG:HG3	1:70:A:GLU:HG2	7	0.98	0.36	1.01
(1,219)	1:25:A:ARG:HG3	1:70:A:GLU:HG3	7	0.98	0.36	1.01
(1,613)	1:6:A:THR:HG21	1:88:A:THR:H	7	0.94	0.16	0.93
(1,613)	1:6:A:THR:HG22	1:88:A:THR:H	7	0.94	0.16	0.93
(1,613)	1:6:A:THR:HG23	1:88:A:THR:H	7	0.94	0.16	0.93
(1,929)	1:37:A:ILE:HD11	1:70:A:GLU:H	7	0.89	0.49	1.27
(1,929)	1:37:A:ILE:HD12	1:70:A:GLU:H	7	0.89	0.49	1.27
(1,929)	1:37:A:ILE:HD13	1:70:A:GLU:H	7	0.89	0.49	1.27

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1445)	1:90:A:ARG:H	1:91:A:ARG:HG2	7	0.89	0.15	0.94
(1,1445)	1:90:A:ARG:H	1:91:A:ARG:HG3	7	0.89	0.15	0.94
(1,106)	1:25:A:ARG:HG2	1:70:A:GLU:HA	7	0.71	0.25	0.79
(1,106)	1:25:A:ARG:HG3	1:70:A:GLU:HA	7	0.71	0.25	0.79
(1,383)	1:6:A:THR:HG21	1:60:A:MET:HB3	7	0.69	0.38	0.67
(1,383)	1:6:A:THR:HG22	1:60:A:MET:HB3	7	0.69	0.38	0.67
(1,383)	1:6:A:THR:HG23	1:60:A:MET:HB3	7	0.69	0.38	0.67
(1,427)	1:21:A:ILE:HG21	1:37:A:ILE:HB	7	0.68	0.62	0.3
(1,427)	1:21:A:ILE:HG22	1:37:A:ILE:HB	7	0.68	0.62	0.3
(1,427)	1:21:A:ILE:HG23	1:37:A:ILE:HB	7	0.68	0.62	0.3
(1,461)	1:39:A:ILE:HD11	1:56:A:ASP:H	7	0.67	0.36	0.63
(1,461)	1:39:A:ILE:HD12	1:56:A:ASP:H	7	0.67	0.36	0.63
(1,461)	1:39:A:ILE:HD13	1:56:A:ASP:H	7	0.67	0.36	0.63
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD11	7	0.66	0.4	0.51
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD12	7	0.66	0.4	0.51
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD13	7	0.66	0.4	0.51
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD11	7	0.66	0.4	0.51
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD12	7	0.66	0.4	0.51
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD13	7	0.66	0.4	0.51
(1,1089)	1:54:A:GLU:H	1:54:A:GLU:HG2	7	0.64	0.19	0.58
(1,1089)	1:54:A:GLU:H	1:54:A:GLU:HG3	7	0.64	0.19	0.58
(1,1521)	1:11:A:ARG:HD2	1:79:A:ARG:H	7	0.62	0.29	0.51
(1,1521)	1:11:A:ARG:HD3	1:79:A:ARG:H	7	0.62	0.29	0.51
(1,95)	1:77:A:GLN:HA	1:80:A:LYS:HD2	7	0.56	0.27	0.5
(1,95)	1:77:A:GLN:HA	1:80:A:LYS:HD3	7	0.56	0.27	0.5
(1,525)	1:88:A:THR:HG21	1:90:A:ARG:HA	7	0.46	0.69	0.17
(1,525)	1:88:A:THR:HG22	1:90:A:ARG:HA	7	0.46	0.69	0.17
(1,525)	1:88:A:THR:HG23	1:90:A:ARG:HA	7	0.46	0.69	0.17
(1,12)	1:75:A:VAL:HA	1:79:A:ARG:HG2	7	0.46	0.22	0.49
(1,12)	1:75:A:VAL:HA	1:79:A:ARG:HG3	7	0.46	0.22	0.49
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD11	7	0.37	0.12	0.39
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD12	7	0.37	0.12	0.39
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD13	7	0.37	0.12	0.39
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD11	7	0.37	0.12	0.39
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD12	7	0.37	0.12	0.39
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD13	7	0.37	0.12	0.39
(1,614)	1:6:A:THR:HG21	1:89:A:ILE:H	7	0.34	0.1	0.34
(1,614)	1:6:A:THR:HG22	1:89:A:ILE:H	7	0.34	0.1	0.34
(1,614)	1:6:A:THR:HG23	1:89:A:ILE:H	7	0.34	0.1	0.34
(1,1007)	1:44:A:LYS:H	1:44:A:LYS:HE2	7	0.34	0.18	0.27
(1,1007)	1:44:A:LYS:H	1:44:A:LYS:HE3	7	0.34	0.18	0.27
(1,1108)	1:57:A:ARG:H	1:57:A:ARG:HD2	7	0.33	0.13	0.32

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1108)	1:57:A:ARG:H	1:57:A:ARG:HD3	7	0.33	0.13	0.32
(1,1111)	1:57:A:ARG:H	1:91:A:ARG:HG2	7	0.33	0.09	0.33
(1,1111)	1:57:A:ARG:H	1:91:A:ARG:HG3	7	0.33	0.09	0.33
(1,294)	1:4:A:GLN:HB2	1:90:A:ARG:HG2	7	0.3	0.21	0.17
(1,294)	1:4:A:GLN:HB2	1:90:A:ARG:HG3	7	0.3	0.21	0.17
(1,294)	1:4:A:GLN:HB3	1:90:A:ARG:HG2	7	0.3	0.21	0.17
(1,294)	1:4:A:GLN:HB3	1:90:A:ARG:HG3	7	0.3	0.21	0.17
(1,93)	1:44:A:LYS:HA	1:44:A:LYS:HD2	7	0.24	0.1	0.25
(1,93)	1:44:A:LYS:HA	1:44:A:LYS:HD3	7	0.24	0.1	0.25
(1,1568)	1:38:A:VAL:HG11	1:39:A:ILE:H	7	0.21	0.04	0.21
(1,1568)	1:38:A:VAL:HG12	1:39:A:ILE:H	7	0.21	0.04	0.21
(1,1568)	1:38:A:VAL:HG13	1:39:A:ILE:H	7	0.21	0.04	0.21
(1,1568)	1:38:A:VAL:HG21	1:39:A:ILE:H	7	0.21	0.04	0.21
(1,1568)	1:38:A:VAL:HG22	1:39:A:ILE:H	7	0.21	0.04	0.21
(1,1568)	1:38:A:VAL:HG23	1:39:A:ILE:H	7	0.21	0.04	0.21
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB1	7	0.2	0.05	0.2
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB2	7	0.2	0.05	0.2
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB3	7	0.2	0.05	0.2
(1,375)	1:42:A:VAL:HG11	1:50:A:GLY:H	7	0.2	0.05	0.18
(1,375)	1:42:A:VAL:HG12	1:50:A:GLY:H	7	0.2	0.05	0.18
(1,375)	1:42:A:VAL:HG13	1:50:A:GLY:H	7	0.2	0.05	0.18
(1,1369)	1:79:A:ARG:HB2	1:82:A:GLY:H	7	0.19	0.06	0.19
(1,1369)	1:79:A:ARG:HB3	1:82:A:GLY:H	7	0.19	0.06	0.19
(1,829)	1:25:A:ARG:H	1:25:A:ARG:HG2	7	0.15	0.02	0.14
(1,829)	1:25:A:ARG:H	1:25:A:ARG:HG3	7	0.15	0.02	0.14
(1,645)	1:8:A:THR:HG21	1:86:A:LYS:H	6	1.54	0.49	1.7
(1,645)	1:8:A:THR:HG22	1:86:A:LYS:H	6	1.54	0.49	1.7
(1,645)	1:8:A:THR:HG23	1:86:A:LYS:H	6	1.54	0.49	1.7
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD11	6	0.88	0.57	0.88
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD12	6	0.88	0.57	0.88
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD13	6	0.88	0.57	0.88
(1,365)	1:8:A:THR:HG21	1:86:A:LYS:HE2	6	0.8	0.66	0.44
(1,365)	1:8:A:THR:HG21	1:86:A:LYS:HE3	6	0.8	0.66	0.44
(1,365)	1:8:A:THR:HG22	1:86:A:LYS:HE2	6	0.8	0.66	0.44
(1,365)	1:8:A:THR:HG22	1:86:A:LYS:HE3	6	0.8	0.66	0.44
(1,365)	1:8:A:THR:HG23	1:86:A:LYS:HE2	6	0.8	0.66	0.44
(1,365)	1:8:A:THR:HG23	1:86:A:LYS:HE3	6	0.8	0.66	0.44
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG21	6	0.7	0.34	0.68
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG22	6	0.7	0.34	0.68
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG23	6	0.7	0.34	0.68
(1,86)	1:39:A:ILE:HD11	1:54:A:GLU:HA	6	0.58	0.2	0.62
(1,86)	1:39:A:ILE:HD12	1:54:A:GLU:HA	6	0.58	0.2	0.62

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,86)	1:39:A:ILE:HD13	1:54:A:GLU:HA	6	0.58	0.2	0.62
(1,317)	1:78:A:LEU:HD21	1:79:A:ARG:HG2	6	0.52	0.18	0.44
(1,317)	1:78:A:LEU:HD21	1:79:A:ARG:HG3	6	0.52	0.18	0.44
(1,317)	1:78:A:LEU:HD22	1:79:A:ARG:HG2	6	0.52	0.18	0.44
(1,317)	1:78:A:LEU:HD22	1:79:A:ARG:HG3	6	0.52	0.18	0.44
(1,317)	1:78:A:LEU:HD23	1:79:A:ARG:HG2	6	0.52	0.18	0.44
(1,317)	1:78:A:LEU:HD23	1:79:A:ARG:HG3	6	0.52	0.18	0.44
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG21	6	0.45	0.42	0.28
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG22	6	0.45	0.42	0.28
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG23	6	0.45	0.42	0.28
(1,708)	1:12:A:ALA:HB1	1:16:A:GLY:H	6	0.44	0.5	0.22
(1,708)	1:12:A:ALA:HB2	1:16:A:GLY:H	6	0.44	0.5	0.22
(1,708)	1:12:A:ALA:HB3	1:16:A:GLY:H	6	0.44	0.5	0.22
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB1	6	0.42	0.17	0.44
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB2	6	0.42	0.17	0.44
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB3	6	0.42	0.17	0.44
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB1	6	0.42	0.17	0.44
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB2	6	0.42	0.17	0.44
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB3	6	0.42	0.17	0.44
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB1	6	0.42	0.17	0.44
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB2	6	0.42	0.17	0.44
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB3	6	0.42	0.17	0.44
(1,467)	1:37:A:ILE:HD11	1:74:A:ALA:H	6	0.37	0.22	0.3
(1,467)	1:37:A:ILE:HD12	1:74:A:ALA:H	6	0.37	0.22	0.3
(1,467)	1:37:A:ILE:HD13	1:74:A:ALA:H	6	0.37	0.22	0.3
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG21	6	0.36	0.06	0.36
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG22	6	0.36	0.06	0.36
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG23	6	0.36	0.06	0.36
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD11	6	0.35	0.22	0.3
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD12	6	0.35	0.22	0.3
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD13	6	0.35	0.22	0.3
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD21	6	0.35	0.24	0.29
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD22	6	0.35	0.24	0.29
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD23	6	0.35	0.24	0.29
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB1	6	0.29	0.18	0.27
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB2	6	0.29	0.18	0.27
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB3	6	0.29	0.18	0.27
(1,305)	1:86:A:LYS:HG3	1:87:A:ILE:HG12	6	0.26	0.1	0.26
(1,305)	1:86:A:LYS:HG3	1:87:A:ILE:HG13	6	0.26	0.1	0.26
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG21	6	0.24	0.1	0.23
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG22	6	0.24	0.1	0.23
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG23	6	0.24	0.1	0.23

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,682)	1:11:A:ARG:H	1:83:A:LYS:HB2	6	0.23	0.06	0.24
(1,682)	1:11:A:ARG:H	1:83:A:LYS:HB3	6	0.23	0.06	0.24
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG11	6	0.19	0.06	0.21
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG12	6	0.19	0.06	0.21
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG13	6	0.19	0.06	0.21
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG21	6	0.19	0.06	0.21
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG22	6	0.19	0.06	0.21
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG23	6	0.19	0.06	0.21
(1,1187)	1:61:A:VAL:HG21	1:64:A:VAL:H	6	0.19	0.03	0.18
(1,1187)	1:61:A:VAL:HG22	1:64:A:VAL:H	6	0.19	0.03	0.18
(1,1187)	1:61:A:VAL:HG23	1:64:A:VAL:H	6	0.19	0.03	0.18
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG11	6	0.18	0.06	0.17
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG12	6	0.18	0.06	0.17
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG13	6	0.18	0.06	0.17
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG21	6	0.18	0.06	0.17
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG22	6	0.18	0.06	0.17
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG23	6	0.18	0.06	0.17
(1,921)	1:37:A:ILE:HG12	1:68:A:ASN:H	5	1.77	0.13	1.82
(1,921)	1:37:A:ILE:HG13	1:68:A:ASN:H	5	1.77	0.13	1.82
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG21	5	1.73	0.25	1.65
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG22	5	1.73	0.25	1.65
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG23	5	1.73	0.25	1.65
(1,860)	1:25:A:ARG:HD2	1:70:A:GLU:H	5	1.53	0.61	1.63
(1,860)	1:25:A:ARG:HD3	1:70:A:GLU:H	5	1.53	0.61	1.63
(1,923)	1:37:A:ILE:HG12	1:69:A:VAL:H	5	1.15	0.25	1.2
(1,923)	1:37:A:ILE:HG13	1:69:A:VAL:H	5	1.15	0.25	1.2
(1,447)	1:21:A:ILE:HD11	1:78:A:LEU:HG	5	1.08	0.18	1.13
(1,447)	1:21:A:ILE:HD12	1:78:A:LEU:HG	5	1.08	0.18	1.13
(1,447)	1:21:A:ILE:HD13	1:78:A:LEU:HG	5	1.08	0.18	1.13
(1,928)	1:37:A:ILE:HD11	1:69:A:VAL:H	5	0.99	0.33	0.93
(1,928)	1:37:A:ILE:HD12	1:69:A:VAL:H	5	0.99	0.33	0.93
(1,928)	1:37:A:ILE:HD13	1:69:A:VAL:H	5	0.99	0.33	0.93
(1,927)	1:37:A:ILE:HD11	1:68:A:ASN:H	5	0.99	0.22	1.0
(1,927)	1:37:A:ILE:HD12	1:68:A:ASN:H	5	0.99	0.22	1.0
(1,927)	1:37:A:ILE:HD13	1:68:A:ASN:H	5	0.99	0.22	1.0
(1,33)	1:37:A:ILE:HG21	1:71:A:HIS:HA	5	0.85	0.42	0.98
(1,33)	1:37:A:ILE:HG22	1:71:A:HIS:HA	5	0.85	0.42	0.98
(1,33)	1:37:A:ILE:HG23	1:71:A:HIS:HA	5	0.85	0.42	0.98
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG11	5	0.69	0.15	0.78
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG12	5	0.69	0.15	0.78
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG13	5	0.69	0.15	0.78
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG11	5	0.69	0.15	0.78

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG12	5	0.69	0.15	0.78
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG13	5	0.69	0.15	0.78
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB1	5	0.61	0.26	0.47
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB2	5	0.61	0.26	0.47
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB3	5	0.61	0.26	0.47
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB1	5	0.61	0.26	0.47
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB2	5	0.61	0.26	0.47
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB3	5	0.61	0.26	0.47
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB1	5	0.61	0.26	0.47
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB2	5	0.61	0.26	0.47
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB3	5	0.61	0.26	0.47
(1,534)	1:37:A:ILE:HG12	1:66:A:MET:HA	5	0.57	0.11	0.6
(1,534)	1:37:A:ILE:HG13	1:66:A:MET:HA	5	0.57	0.11	0.6
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD11	5	0.56	0.6	0.26
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD12	5	0.56	0.6	0.26
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD13	5	0.56	0.6	0.26
(1,916)	1:37:A:ILE:HG21	1:38:A:VAL:H	5	0.54	0.11	0.55
(1,916)	1:37:A:ILE:HG22	1:38:A:VAL:H	5	0.54	0.11	0.55
(1,916)	1:37:A:ILE:HG23	1:38:A:VAL:H	5	0.54	0.11	0.55
(1,442)	1:89:A:ILE:HD11	1:91:A:ARG:HB3	5	0.44	0.16	0.53
(1,442)	1:89:A:ILE:HD12	1:91:A:ARG:HB3	5	0.44	0.16	0.53
(1,442)	1:89:A:ILE:HD13	1:91:A:ARG:HB3	5	0.44	0.16	0.53
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG11	5	0.43	0.14	0.44
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG12	5	0.43	0.14	0.44
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG13	5	0.43	0.14	0.44
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG21	5	0.43	0.14	0.44
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG22	5	0.43	0.14	0.44
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG23	5	0.43	0.14	0.44
(1,1072)	1:8:A:THR:HG21	1:87:A:ILE:H	5	0.42	0.1	0.45
(1,1072)	1:8:A:THR:HG22	1:87:A:ILE:H	5	0.42	0.1	0.45
(1,1072)	1:8:A:THR:HG23	1:87:A:ILE:H	5	0.42	0.1	0.45
(1,858)	1:25:A:ARG:HD2	1:27:A:ASN:H	5	0.41	0.11	0.39
(1,858)	1:25:A:ARG:HD3	1:27:A:ASN:H	5	0.41	0.11	0.39
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD11	5	0.41	0.13	0.43
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD12	5	0.41	0.13	0.43
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD13	5	0.41	0.13	0.43
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD21	5	0.41	0.13	0.43
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD22	5	0.41	0.13	0.43
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD23	5	0.41	0.13	0.43
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD11	5	0.41	0.35	0.23
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD12	5	0.41	0.35	0.23
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD13	5	0.41	0.35	0.23

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG21	5	0.36	0.13	0.37
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG22	5	0.36	0.13	0.37
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG23	5	0.36	0.13	0.37
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD11	5	0.32	0.1	0.32
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD12	5	0.32	0.1	0.32
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD13	5	0.32	0.1	0.32
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD11	5	0.29	0.05	0.31
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD12	5	0.29	0.05	0.31
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD13	5	0.29	0.05	0.31
(1,1674)	1:84:A:ASN:HB2	1:86:A:LYS:H	5	0.28	0.1	0.27
(1,1674)	1:84:A:ASN:HB3	1:86:A:LYS:H	5	0.28	0.1	0.27
(1,1510)	1:10:A:HIS:HB2	1:12:A:ALA:H	5	0.26	0.15	0.19
(1,1510)	1:10:A:HIS:HB3	1:12:A:ALA:H	5	0.26	0.15	0.19
(1,1616)	1:61:A:VAL:HG11	1:64:A:VAL:H	5	0.14	0.02	0.15
(1,1616)	1:61:A:VAL:HG12	1:64:A:VAL:H	5	0.14	0.02	0.15
(1,1616)	1:61:A:VAL:HG13	1:64:A:VAL:H	5	0.14	0.02	0.15
(1,1616)	1:61:A:VAL:HG21	1:64:A:VAL:H	5	0.14	0.02	0.15
(1,1616)	1:61:A:VAL:HG22	1:64:A:VAL:H	5	0.14	0.02	0.15
(1,1616)	1:61:A:VAL:HG23	1:64:A:VAL:H	5	0.14	0.02	0.15
(1,465)	1:39:A:ILE:HD11	1:89:A:ILE:HG21	4	1.55	1.18	1.56
(1,465)	1:39:A:ILE:HD11	1:89:A:ILE:HG22	4	1.55	1.18	1.56
(1,465)	1:39:A:ILE:HD11	1:89:A:ILE:HG23	4	1.55	1.18	1.56
(1,465)	1:39:A:ILE:HD12	1:89:A:ILE:HG21	4	1.55	1.18	1.56
(1,465)	1:39:A:ILE:HD12	1:89:A:ILE:HG22	4	1.55	1.18	1.56
(1,465)	1:39:A:ILE:HD12	1:89:A:ILE:HG23	4	1.55	1.18	1.56
(1,465)	1:39:A:ILE:HD13	1:89:A:ILE:HG21	4	1.55	1.18	1.56
(1,465)	1:39:A:ILE:HD13	1:89:A:ILE:HG22	4	1.55	1.18	1.56
(1,465)	1:39:A:ILE:HD13	1:89:A:ILE:HG23	4	1.55	1.18	1.56
(1,42)	1:37:A:ILE:HD11	1:71:A:HIS:HA	4	1.1	0.4	1.1
(1,42)	1:37:A:ILE:HD12	1:71:A:HIS:HA	4	1.1	0.4	1.1
(1,42)	1:37:A:ILE:HD13	1:71:A:HIS:HA	4	1.1	0.4	1.1
(1,1560)	1:25:A:ARG:HD2	1:26:A:ASP:HB2	4	1.08	0.36	1.21
(1,1560)	1:25:A:ARG:HD2	1:26:A:ASP:HB3	4	1.08	0.36	1.21
(1,1560)	1:25:A:ARG:HD3	1:26:A:ASP:HB2	4	1.08	0.36	1.21
(1,1560)	1:25:A:ARG:HD3	1:26:A:ASP:HB3	4	1.08	0.36	1.21
(1,58)	1:25:A:ARG:HD2	1:69:A:VAL:HA	4	0.79	0.27	0.69
(1,58)	1:25:A:ARG:HD3	1:69:A:VAL:HA	4	0.79	0.27	0.69
(1,1624)	1:61:A:VAL:HG11	1:78:A:LEU:HA	4	0.74	0.39	0.84
(1,1624)	1:61:A:VAL:HG12	1:78:A:LEU:HA	4	0.74	0.39	0.84
(1,1624)	1:61:A:VAL:HG13	1:78:A:LEU:HA	4	0.74	0.39	0.84
(1,1624)	1:61:A:VAL:HG21	1:78:A:LEU:HA	4	0.74	0.39	0.84
(1,1624)	1:61:A:VAL:HG22	1:78:A:LEU:HA	4	0.74	0.39	0.84

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1624)	1:61:A:VAL:HG23	1:78:A:LEU:HA	4	0.74	0.39	0.84
(1,386)	1:61:A:VAL:HG11	1:87:A:ILE:HG12	4	0.57	0.45	0.4
(1,386)	1:61:A:VAL:HG11	1:87:A:ILE:HG13	4	0.57	0.45	0.4
(1,386)	1:61:A:VAL:HG12	1:87:A:ILE:HG12	4	0.57	0.45	0.4
(1,386)	1:61:A:VAL:HG12	1:87:A:ILE:HG13	4	0.57	0.45	0.4
(1,386)	1:61:A:VAL:HG13	1:87:A:ILE:HG12	4	0.57	0.45	0.4
(1,386)	1:61:A:VAL:HG13	1:87:A:ILE:HG13	4	0.57	0.45	0.4
(1,918)	1:66:A:MET:H	1:69:A:VAL:HG11	4	0.46	0.55	0.16
(1,918)	1:66:A:MET:H	1:69:A:VAL:HG12	4	0.46	0.55	0.16
(1,918)	1:66:A:MET:H	1:69:A:VAL:HG13	4	0.46	0.55	0.16
(1,794)	1:22:A:SER:H	1:74:A:ALA:HB1	4	0.38	0.15	0.32
(1,794)	1:22:A:SER:H	1:74:A:ALA:HB2	4	0.38	0.15	0.32
(1,794)	1:22:A:SER:H	1:74:A:ALA:HB3	4	0.38	0.15	0.32
(1,1492)	1:2:A:TRP:HB2	1:91:A:ARG:H	4	0.36	0.17	0.32
(1,1492)	1:2:A:TRP:HB3	1:91:A:ARG:H	4	0.36	0.17	0.32
(1,52)	1:1:A:ILE:HA	1:1:A:ILE:HD11	4	0.36	0.0	0.36
(1,52)	1:1:A:ILE:HA	1:1:A:ILE:HD12	4	0.36	0.0	0.36
(1,52)	1:1:A:ILE:HA	1:1:A:ILE:HD13	4	0.36	0.0	0.36
(1,571)	1:3:A:GLU:HG2	1:4:A:GLN:H	4	0.26	0.11	0.22
(1,571)	1:3:A:GLU:HG3	1:4:A:GLN:H	4	0.26	0.11	0.22
(1,563)	1:3:A:GLU:H	1:91:A:ARG:HG2	4	0.26	0.07	0.26
(1,563)	1:3:A:GLU:H	1:91:A:ARG:HG3	4	0.26	0.07	0.26
(1,481)	1:6:A:THR:HA	1:89:A:ILE:HD11	4	0.24	0.14	0.18
(1,481)	1:6:A:THR:HA	1:89:A:ILE:HD12	4	0.24	0.14	0.18
(1,481)	1:6:A:THR:HA	1:89:A:ILE:HD13	4	0.24	0.14	0.18
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG11	4	0.23	0.09	0.24
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG12	4	0.23	0.09	0.24
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG13	4	0.23	0.09	0.24
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG21	4	0.23	0.09	0.24
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG22	4	0.23	0.09	0.24
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG23	4	0.23	0.09	0.24
(1,323)	1:19:A:ILE:H	1:43:A:LEU:HD11	4	0.23	0.06	0.26
(1,323)	1:19:A:ILE:H	1:43:A:LEU:HD12	4	0.23	0.06	0.26
(1,323)	1:19:A:ILE:H	1:43:A:LEU:HD13	4	0.23	0.06	0.26
(1,1363)	1:79:A:ARG:H	1:79:A:ARG:HD2	4	0.22	0.08	0.2
(1,1363)	1:79:A:ARG:H	1:79:A:ARG:HD3	4	0.22	0.08	0.2
(1,980)	1:9:A:LEU:HD11	1:52:A:LEU:H	4	0.2	0.08	0.2
(1,980)	1:9:A:LEU:HD12	1:52:A:LEU:H	4	0.2	0.08	0.2
(1,980)	1:9:A:LEU:HD13	1:52:A:LEU:H	4	0.2	0.08	0.2
(1,980)	1:9:A:LEU:HD21	1:52:A:LEU:H	4	0.2	0.08	0.2
(1,980)	1:9:A:LEU:HD22	1:52:A:LEU:H	4	0.2	0.08	0.2
(1,980)	1:9:A:LEU:HD23	1:52:A:LEU:H	4	0.2	0.08	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1126)	1:58:A:VAL:HG11	1:59:A:ALA:H	4	0.19	0.04	0.2
(1,1126)	1:58:A:VAL:HG12	1:59:A:ALA:H	4	0.19	0.04	0.2
(1,1126)	1:58:A:VAL:HG13	1:59:A:ALA:H	4	0.19	0.04	0.2
(1,768)	1:19:A:ILE:HG21	1:20:A:ALA:H	4	0.18	0.03	0.17
(1,768)	1:19:A:ILE:HG22	1:20:A:ALA:H	4	0.18	0.03	0.17
(1,768)	1:19:A:ILE:HG23	1:20:A:ALA:H	4	0.18	0.03	0.17
(1,419)	1:21:A:ILE:HG21	1:21:A:ILE:HD11	4	0.16	0.04	0.15
(1,419)	1:21:A:ILE:HG21	1:21:A:ILE:HD12	4	0.16	0.04	0.15
(1,419)	1:21:A:ILE:HG21	1:21:A:ILE:HD13	4	0.16	0.04	0.15
(1,419)	1:21:A:ILE:HG22	1:21:A:ILE:HD11	4	0.16	0.04	0.15
(1,419)	1:21:A:ILE:HG22	1:21:A:ILE:HD12	4	0.16	0.04	0.15
(1,419)	1:21:A:ILE:HG22	1:21:A:ILE:HD13	4	0.16	0.04	0.15
(1,419)	1:21:A:ILE:HG23	1:21:A:ILE:HD11	4	0.16	0.04	0.15
(1,419)	1:21:A:ILE:HG23	1:21:A:ILE:HD12	4	0.16	0.04	0.15
(1,419)	1:21:A:ILE:HG23	1:21:A:ILE:HD13	4	0.16	0.04	0.15
(1,1251)	1:69:A:VAL:HG21	1:75:A:VAL:H	3	0.76	0.68	0.29
(1,1251)	1:69:A:VAL:HG22	1:75:A:VAL:H	3	0.76	0.68	0.29
(1,1251)	1:69:A:VAL:HG23	1:75:A:VAL:H	3	0.76	0.68	0.29
(1,1626)	1:61:A:VAL:HG11	1:86:A:LYS:H	3	0.66	0.08	0.6
(1,1626)	1:61:A:VAL:HG12	1:86:A:LYS:H	3	0.66	0.08	0.6
(1,1626)	1:61:A:VAL:HG13	1:86:A:LYS:H	3	0.66	0.08	0.6
(1,1626)	1:61:A:VAL:HG21	1:86:A:LYS:H	3	0.66	0.08	0.6
(1,1626)	1:61:A:VAL:HG22	1:86:A:LYS:H	3	0.66	0.08	0.6
(1,1626)	1:61:A:VAL:HG23	1:86:A:LYS:H	3	0.66	0.08	0.6
(1,1603)	1:52:A:LEU:HD11	1:87:A:ILE:HD11	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD11	1:87:A:ILE:HD12	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD11	1:87:A:ILE:HD13	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD12	1:87:A:ILE:HD11	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD12	1:87:A:ILE:HD12	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD12	1:87:A:ILE:HD13	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD13	1:87:A:ILE:HD11	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD13	1:87:A:ILE:HD12	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD13	1:87:A:ILE:HD13	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD21	1:87:A:ILE:HD11	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD21	1:87:A:ILE:HD12	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD21	1:87:A:ILE:HD13	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD22	1:87:A:ILE:HD11	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD22	1:87:A:ILE:HD12	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD22	1:87:A:ILE:HD13	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD23	1:87:A:ILE:HD11	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD23	1:87:A:ILE:HD12	3	0.58	0.02	0.59
(1,1603)	1:52:A:LEU:HD23	1:87:A:ILE:HD13	3	0.58	0.02	0.59

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,330)	1:7:A:VAL:HB	1:52:A:LEU:HD21	3	0.54	0.28	0.36
(1,330)	1:7:A:VAL:HB	1:52:A:LEU:HD22	3	0.54	0.28	0.36
(1,330)	1:7:A:VAL:HB	1:52:A:LEU:HD23	3	0.54	0.28	0.36
(1,470)	1:37:A:ILE:HD11	1:69:A:VAL:HG21	3	0.52	0.15	0.61
(1,470)	1:37:A:ILE:HD11	1:69:A:VAL:HG22	3	0.52	0.15	0.61
(1,470)	1:37:A:ILE:HD11	1:69:A:VAL:HG23	3	0.52	0.15	0.61
(1,470)	1:37:A:ILE:HD12	1:69:A:VAL:HG21	3	0.52	0.15	0.61
(1,470)	1:37:A:ILE:HD12	1:69:A:VAL:HG22	3	0.52	0.15	0.61
(1,470)	1:37:A:ILE:HD12	1:69:A:VAL:HG23	3	0.52	0.15	0.61
(1,470)	1:37:A:ILE:HD13	1:69:A:VAL:HG21	3	0.52	0.15	0.61
(1,470)	1:37:A:ILE:HD13	1:69:A:VAL:HG22	3	0.52	0.15	0.61
(1,470)	1:37:A:ILE:HD13	1:69:A:VAL:HG23	3	0.52	0.15	0.61
(1,236)	1:89:A:ILE:HD11	1:91:A:ARG:HB2	3	0.52	0.25	0.42
(1,236)	1:89:A:ILE:HD12	1:91:A:ARG:HB2	3	0.52	0.25	0.42
(1,236)	1:89:A:ILE:HD13	1:91:A:ARG:HB2	3	0.52	0.25	0.42
(1,939)	1:39:A:ILE:H	1:39:A:ILE:HD11	3	0.48	0.23	0.6
(1,939)	1:39:A:ILE:H	1:39:A:ILE:HD12	3	0.48	0.23	0.6
(1,939)	1:39:A:ILE:H	1:39:A:ILE:HD13	3	0.48	0.23	0.6
(1,170)	1:76:A:GLN:HA	1:79:A:ARG:HD2	3	0.46	0.2	0.35
(1,170)	1:76:A:GLN:HA	1:79:A:ARG:HD3	3	0.46	0.2	0.35
(1,852)	1:25:A:ARG:HG2	1:26:A:ASP:H	3	0.42	0.13	0.41
(1,852)	1:25:A:ARG:HG3	1:26:A:ASP:H	3	0.42	0.13	0.41
(1,1612)	1:61:A:VAL:HG11	1:62:A:ASN:H	3	0.4	0.02	0.39
(1,1612)	1:61:A:VAL:HG12	1:62:A:ASN:H	3	0.4	0.02	0.39
(1,1612)	1:61:A:VAL:HG13	1:62:A:ASN:H	3	0.4	0.02	0.39
(1,1612)	1:61:A:VAL:HG21	1:62:A:ASN:H	3	0.4	0.02	0.39
(1,1612)	1:61:A:VAL:HG22	1:62:A:ASN:H	3	0.4	0.02	0.39
(1,1612)	1:61:A:VAL:HG23	1:62:A:ASN:H	3	0.4	0.02	0.39
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG11	3	0.37	0.36	0.12
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG12	3	0.37	0.36	0.12
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG13	3	0.37	0.36	0.12
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG21	3	0.37	0.36	0.12
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG22	3	0.37	0.36	0.12
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG23	3	0.37	0.36	0.12
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG11	3	0.37	0.36	0.12
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG12	3	0.37	0.36	0.12
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG13	3	0.37	0.36	0.12
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG21	3	0.37	0.36	0.12
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG22	3	0.37	0.36	0.12
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG23	3	0.37	0.36	0.12
(1,459)	1:52:A:LEU:HB2	1:87:A:ILE:HD11	3	0.35	0.14	0.37
(1,459)	1:52:A:LEU:HB2	1:87:A:ILE:HD12	3	0.35	0.14	0.37

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,459)	1:52:A:LEU:HB2	1:87:A:ILE:HD13	3	0.35	0.14	0.37
(1,459)	1:52:A:LEU:HB3	1:87:A:ILE:HD11	3	0.35	0.14	0.37
(1,459)	1:52:A:LEU:HB3	1:87:A:ILE:HD12	3	0.35	0.14	0.37
(1,459)	1:52:A:LEU:HB3	1:87:A:ILE:HD13	3	0.35	0.14	0.37
(1,793)	1:22:A:SER:H	1:39:A:ILE:HG12	3	0.32	0.14	0.41
(1,793)	1:22:A:SER:H	1:39:A:ILE:HG13	3	0.32	0.14	0.41
(1,268)	1:60:A:MET:HG2	1:88:A:THR:HG21	3	0.25	0.08	0.22
(1,268)	1:60:A:MET:HG2	1:88:A:THR:HG22	3	0.25	0.08	0.22
(1,268)	1:60:A:MET:HG2	1:88:A:THR:HG23	3	0.25	0.08	0.22
(1,1201)	1:62:A:ASN:H	1:87:A:ILE:HG12	3	0.24	0.09	0.19
(1,1201)	1:62:A:ASN:H	1:87:A:ILE:HG13	3	0.24	0.09	0.19
(1,436)	1:37:A:ILE:HG21	1:74:A:ALA:HB1	3	0.24	0.01	0.23
(1,436)	1:37:A:ILE:HG21	1:74:A:ALA:HB2	3	0.24	0.01	0.23
(1,436)	1:37:A:ILE:HG21	1:74:A:ALA:HB3	3	0.24	0.01	0.23
(1,436)	1:37:A:ILE:HG22	1:74:A:ALA:HB1	3	0.24	0.01	0.23
(1,436)	1:37:A:ILE:HG22	1:74:A:ALA:HB2	3	0.24	0.01	0.23
(1,436)	1:37:A:ILE:HG22	1:74:A:ALA:HB3	3	0.24	0.01	0.23
(1,436)	1:37:A:ILE:HG23	1:74:A:ALA:HB1	3	0.24	0.01	0.23
(1,436)	1:37:A:ILE:HG23	1:74:A:ALA:HB2	3	0.24	0.01	0.23
(1,436)	1:37:A:ILE:HG23	1:74:A:ALA:HB3	3	0.24	0.01	0.23
(1,311)	1:51:A:GLN:HB2	1:52:A:LEU:HD11	3	0.23	0.05	0.24
(1,311)	1:51:A:GLN:HB2	1:52:A:LEU:HD12	3	0.23	0.05	0.24
(1,311)	1:51:A:GLN:HB2	1:52:A:LEU:HD13	3	0.23	0.05	0.24
(1,1619)	1:61:A:VAL:HG11	1:66:A:MET:HB2	3	0.22	0.12	0.17
(1,1619)	1:61:A:VAL:HG12	1:66:A:MET:HB2	3	0.22	0.12	0.17
(1,1619)	1:61:A:VAL:HG13	1:66:A:MET:HB2	3	0.22	0.12	0.17
(1,1619)	1:61:A:VAL:HG21	1:66:A:MET:HB2	3	0.22	0.12	0.17
(1,1619)	1:61:A:VAL:HG22	1:66:A:MET:HB2	3	0.22	0.12	0.17
(1,1619)	1:61:A:VAL:HG23	1:66:A:MET:HB2	3	0.22	0.12	0.17
(1,516)	1:60:A:MET:HA	1:88:A:THR:HG21	3	0.19	0.04	0.17
(1,516)	1:60:A:MET:HA	1:88:A:THR:HG22	3	0.19	0.04	0.17
(1,516)	1:60:A:MET:HA	1:88:A:THR:HG23	3	0.19	0.04	0.17
(1,1571)	1:38:A:VAL:HG11	1:40:A:SER:HB2	3	0.16	0.02	0.16
(1,1571)	1:38:A:VAL:HG11	1:40:A:SER:HB3	3	0.16	0.02	0.16
(1,1571)	1:38:A:VAL:HG12	1:40:A:SER:HB2	3	0.16	0.02	0.16
(1,1571)	1:38:A:VAL:HG12	1:40:A:SER:HB3	3	0.16	0.02	0.16
(1,1571)	1:38:A:VAL:HG13	1:40:A:SER:HB2	3	0.16	0.02	0.16
(1,1571)	1:38:A:VAL:HG13	1:40:A:SER:HB3	3	0.16	0.02	0.16
(1,1571)	1:38:A:VAL:HG21	1:40:A:SER:HB2	3	0.16	0.02	0.16
(1,1571)	1:38:A:VAL:HG21	1:40:A:SER:HB3	3	0.16	0.02	0.16
(1,1571)	1:38:A:VAL:HG22	1:40:A:SER:HB2	3	0.16	0.02	0.16
(1,1571)	1:38:A:VAL:HG22	1:40:A:SER:HB3	3	0.16	0.02	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1571)	1:38:A:VAL:HG23	1:40:A:SER:HB2	3	0.16	0.02	0.16
(1,1571)	1:38:A:VAL:HG23	1:40:A:SER:HB3	3	0.16	0.02	0.16
(1,936)	1:38:A:VAL:HG11	1:39:A:ILE:H	3	0.15	0.04	0.12
(1,936)	1:38:A:VAL:HG12	1:39:A:ILE:H	3	0.15	0.04	0.12
(1,936)	1:38:A:VAL:HG13	1:39:A:ILE:H	3	0.15	0.04	0.12
(1,811)	1:24:A:GLY:H	1:27:A:ASN:HB2	2	2.47	0.04	2.47
(1,811)	1:24:A:GLY:H	1:27:A:ASN:HB3	2	2.47	0.04	2.47
(1,950)	1:39:A:ILE:HG21	1:42:A:VAL:H	2	2.06	0.08	2.06
(1,950)	1:39:A:ILE:HG22	1:42:A:VAL:H	2	2.06	0.08	2.06
(1,950)	1:39:A:ILE:HG23	1:42:A:VAL:H	2	2.06	0.08	2.06
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD11	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD12	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD13	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD21	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD22	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD23	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD11	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD12	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD13	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD21	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD22	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD23	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD11	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD12	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD13	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD21	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD22	2	2.0	0.1	2.0
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD23	2	2.0	0.1	2.0
(1,493)	1:38:A:VAL:HA	1:39:A:ILE:HD11	2	1.42	0.0	1.42
(1,493)	1:38:A:VAL:HA	1:39:A:ILE:HD12	2	1.42	0.0	1.42
(1,493)	1:38:A:VAL:HA	1:39:A:ILE:HD13	2	1.42	0.0	1.42
(1,832)	1:25:A:ARG:H	1:27:A:ASN:HB2	2	1.18	0.09	1.18
(1,832)	1:25:A:ARG:H	1:27:A:ASN:HB3	2	1.18	0.09	1.18
(1,1253)	1:69:A:VAL:HG21	1:71:A:HIS:H	2	0.9	0.71	0.9
(1,1253)	1:69:A:VAL:HG22	1:71:A:HIS:H	2	0.9	0.71	0.9
(1,1253)	1:69:A:VAL:HG23	1:71:A:HIS:H	2	0.9	0.71	0.9
(1,147)	1:39:A:ILE:HD11	1:52:A:LEU:HA	2	0.84	0.2	0.84
(1,147)	1:39:A:ILE:HD12	1:52:A:LEU:HA	2	0.84	0.2	0.84
(1,147)	1:39:A:ILE:HD13	1:52:A:LEU:HA	2	0.84	0.2	0.84
(1,762)	1:20:A:ALA:H	1:39:A:ILE:HG21	2	0.79	0.12	0.79
(1,762)	1:20:A:ALA:H	1:39:A:ILE:HG22	2	0.79	0.12	0.79
(1,762)	1:20:A:ALA:H	1:39:A:ILE:HG23	2	0.79	0.12	0.79

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,468)	1:21:A:ILE:HB	1:37:A:ILE:HD11	2	0.76	0.55	0.76
(1,468)	1:21:A:ILE:HB	1:37:A:ILE:HD12	2	0.76	0.55	0.76
(1,468)	1:21:A:ILE:HB	1:37:A:ILE:HD13	2	0.76	0.55	0.76
(1,98)	1:39:A:ILE:HG21	1:40:A:SER:HA	2	0.74	0.01	0.74
(1,98)	1:39:A:ILE:HG22	1:40:A:SER:HA	2	0.74	0.01	0.74
(1,98)	1:39:A:ILE:HG23	1:40:A:SER:HA	2	0.74	0.01	0.74
(1,492)	1:19:A:ILE:HA	1:39:A:ILE:HG21	2	0.74	0.42	0.74
(1,492)	1:19:A:ILE:HA	1:39:A:ILE:HG22	2	0.74	0.42	0.74
(1,492)	1:19:A:ILE:HA	1:39:A:ILE:HG23	2	0.74	0.42	0.74
(1,952)	1:39:A:ILE:HG21	1:40:A:SER:H	2	0.74	0.03	0.74
(1,952)	1:39:A:ILE:HG22	1:40:A:SER:H	2	0.74	0.03	0.74
(1,952)	1:39:A:ILE:HG23	1:40:A:SER:H	2	0.74	0.03	0.74
(1,1545)	1:20:A:ALA:HB1	1:21:A:ILE:HG12	2	0.55	0.01	0.55
(1,1545)	1:20:A:ALA:HB1	1:21:A:ILE:HG13	2	0.55	0.01	0.55
(1,1545)	1:20:A:ALA:HB2	1:21:A:ILE:HG12	2	0.55	0.01	0.55
(1,1545)	1:20:A:ALA:HB2	1:21:A:ILE:HG13	2	0.55	0.01	0.55
(1,1545)	1:20:A:ALA:HB3	1:21:A:ILE:HG12	2	0.55	0.01	0.55
(1,1545)	1:20:A:ALA:HB3	1:21:A:ILE:HG13	2	0.55	0.01	0.55
(1,357)	1:20:A:ALA:HB1	1:21:A:ILE:HD11	2	0.52	0.02	0.52
(1,357)	1:20:A:ALA:HB1	1:21:A:ILE:HD12	2	0.52	0.02	0.52
(1,357)	1:20:A:ALA:HB1	1:21:A:ILE:HD13	2	0.52	0.02	0.52
(1,357)	1:20:A:ALA:HB2	1:21:A:ILE:HD11	2	0.52	0.02	0.52
(1,357)	1:20:A:ALA:HB2	1:21:A:ILE:HD12	2	0.52	0.02	0.52
(1,357)	1:20:A:ALA:HB2	1:21:A:ILE:HD13	2	0.52	0.02	0.52
(1,357)	1:20:A:ALA:HB3	1:21:A:ILE:HD11	2	0.52	0.02	0.52
(1,357)	1:20:A:ALA:HB3	1:21:A:ILE:HD12	2	0.52	0.02	0.52
(1,357)	1:20:A:ALA:HB3	1:21:A:ILE:HD13	2	0.52	0.02	0.52
(1,757)	1:21:A:ILE:H	1:21:A:ILE:HD11	2	0.51	0.01	0.51
(1,757)	1:21:A:ILE:H	1:21:A:ILE:HD12	2	0.51	0.01	0.51
(1,757)	1:21:A:ILE:H	1:21:A:ILE:HD13	2	0.51	0.01	0.51
(1,804)	1:23:A:GLY:H	1:40:A:SER:HB2	2	0.5	0.26	0.5
(1,804)	1:23:A:GLY:H	1:40:A:SER:HB3	2	0.5	0.26	0.5
(1,1434)	1:89:A:ILE:H	1:89:A:ILE:HD11	2	0.4	0.11	0.4
(1,1434)	1:89:A:ILE:H	1:89:A:ILE:HD12	2	0.4	0.11	0.4
(1,1434)	1:89:A:ILE:H	1:89:A:ILE:HD13	2	0.4	0.11	0.4
(1,429)	1:21:A:ILE:HG21	1:74:A:ALA:HB1	2	0.39	0.15	0.39
(1,429)	1:21:A:ILE:HG21	1:74:A:ALA:HB2	2	0.39	0.15	0.39
(1,429)	1:21:A:ILE:HG21	1:74:A:ALA:HB3	2	0.39	0.15	0.39
(1,429)	1:21:A:ILE:HG22	1:74:A:ALA:HB1	2	0.39	0.15	0.39
(1,429)	1:21:A:ILE:HG22	1:74:A:ALA:HB2	2	0.39	0.15	0.39
(1,429)	1:21:A:ILE:HG22	1:74:A:ALA:HB3	2	0.39	0.15	0.39
(1,429)	1:21:A:ILE:HG23	1:74:A:ALA:HB1	2	0.39	0.15	0.39

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,429)	1:21:A:ILE:HG23	1:74:A:ALA:HB2	2	0.39	0.15	0.39
(1,429)	1:21:A:ILE:HG23	1:74:A:ALA:HB3	2	0.39	0.15	0.39
(1,1186)	1:61:A:VAL:HG11	1:64:A:VAL:H	2	0.35	0.03	0.35
(1,1186)	1:61:A:VAL:HG12	1:64:A:VAL:H	2	0.35	0.03	0.35
(1,1186)	1:61:A:VAL:HG13	1:64:A:VAL:H	2	0.35	0.03	0.35
(1,346)	1:56:A:ASP:HA	1:89:A:ILE:HG21	2	0.28	0.18	0.28
(1,346)	1:56:A:ASP:HA	1:89:A:ILE:HG22	2	0.28	0.18	0.28
(1,346)	1:56:A:ASP:HA	1:89:A:ILE:HG23	2	0.28	0.18	0.28
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD11	2	0.27	0.03	0.27
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD12	2	0.27	0.03	0.27
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD13	2	0.27	0.03	0.27
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD21	2	0.27	0.03	0.27
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD22	2	0.27	0.03	0.27
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD23	2	0.27	0.03	0.27
(1,312)	1:7:A:VAL:HB	1:52:A:LEU:HD11	2	0.25	0.04	0.25
(1,312)	1:7:A:VAL:HB	1:52:A:LEU:HD12	2	0.25	0.04	0.25
(1,312)	1:7:A:VAL:HB	1:52:A:LEU:HD13	2	0.25	0.04	0.25
(1,394)	1:17:A:PHE:HD1	1:85:A:ALA:HB1	2	0.22	0.1	0.22
(1,394)	1:17:A:PHE:HD1	1:85:A:ALA:HB2	2	0.22	0.1	0.22
(1,394)	1:17:A:PHE:HD1	1:85:A:ALA:HB3	2	0.22	0.1	0.22
(1,394)	1:17:A:PHE:HD2	1:85:A:ALA:HB1	2	0.22	0.1	0.22
(1,394)	1:17:A:PHE:HD2	1:85:A:ALA:HB2	2	0.22	0.1	0.22
(1,394)	1:17:A:PHE:HD2	1:85:A:ALA:HB3	2	0.22	0.1	0.22
(1,393)	1:81:A:SER:H	1:85:A:ALA:HB1	2	0.21	0.02	0.21
(1,393)	1:81:A:SER:H	1:85:A:ALA:HB2	2	0.21	0.02	0.21
(1,393)	1:81:A:SER:H	1:85:A:ALA:HB3	2	0.21	0.02	0.21
(1,1252)	1:69:A:VAL:HG21	1:70:A:GLU:H	2	0.19	0.06	0.19
(1,1252)	1:69:A:VAL:HG22	1:70:A:GLU:H	2	0.19	0.06	0.19
(1,1252)	1:69:A:VAL:HG23	1:70:A:GLU:H	2	0.19	0.06	0.19
(1,469)	1:37:A:ILE:HD11	1:74:A:ALA:HB1	2	0.18	0.06	0.18
(1,469)	1:37:A:ILE:HD11	1:74:A:ALA:HB2	2	0.18	0.06	0.18
(1,469)	1:37:A:ILE:HD11	1:74:A:ALA:HB3	2	0.18	0.06	0.18
(1,469)	1:37:A:ILE:HD12	1:74:A:ALA:HB1	2	0.18	0.06	0.18
(1,469)	1:37:A:ILE:HD12	1:74:A:ALA:HB2	2	0.18	0.06	0.18
(1,469)	1:37:A:ILE:HD12	1:74:A:ALA:HB3	2	0.18	0.06	0.18
(1,469)	1:37:A:ILE:HD13	1:74:A:ALA:HB1	2	0.18	0.06	0.18
(1,469)	1:37:A:ILE:HD13	1:74:A:ALA:HB2	2	0.18	0.06	0.18
(1,469)	1:37:A:ILE:HD13	1:74:A:ALA:HB3	2	0.18	0.06	0.18
(1,17)	1:21:A:ILE:HD11	1:75:A:VAL:HA	2	0.16	0.05	0.16
(1,17)	1:21:A:ILE:HD12	1:75:A:VAL:HA	2	0.16	0.05	0.16
(1,17)	1:21:A:ILE:HD13	1:75:A:VAL:HA	2	0.16	0.05	0.16
(1,1188)	1:77:A:GLN:H	1:78:A:LEU:HD21	2	0.16	0.02	0.16

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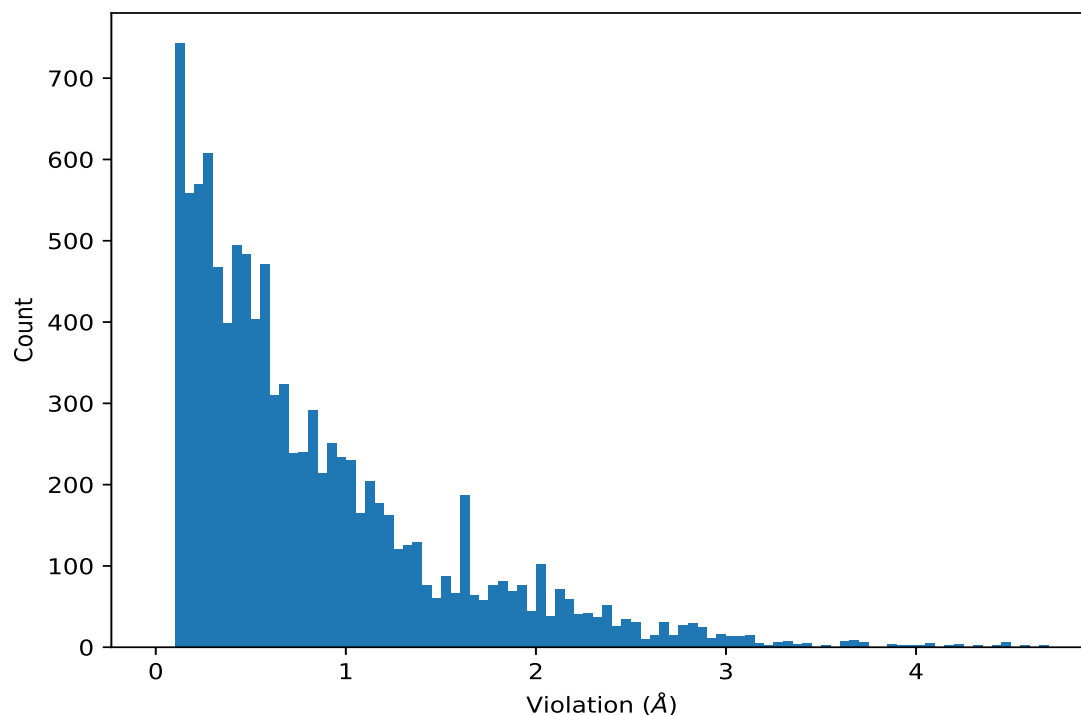
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1188)	1:77:A:GLN:H	1:78:A:LEU:HD22	2	0.16	0.02	0.16
(1,1188)	1:77:A:GLN:H	1:78:A:LEU:HD23	2	0.16	0.02	0.16
(1,332)	1:75:A:VAL:HB	1:78:A:LEU:HD11	2	0.15	0.0	0.15
(1,332)	1:75:A:VAL:HB	1:78:A:LEU:HD12	2	0.15	0.0	0.15
(1,332)	1:75:A:VAL:HB	1:78:A:LEU:HD13	2	0.15	0.0	0.15
(1,1546)	1:21:A:ILE:H	1:21:A:ILE:HG12	2	0.14	0.01	0.14
(1,1546)	1:21:A:ILE:H	1:21:A:ILE:HG13	2	0.14	0.01	0.14
(1,712)	1:15:A:PHE:H	1:43:A:LEU:HD11	2	0.12	0.01	0.12
(1,712)	1:15:A:PHE:H	1:43:A:LEU:HD12	2	0.12	0.01	0.12
(1,712)	1:15:A:PHE:H	1:43:A:LEU:HD13	2	0.12	0.01	0.12

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)
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	14	4.67
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	14	4.67
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	1	4.59
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	1	4.59
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	16	4.49
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	16	4.49
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	3	4.47
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	3	4.47
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	14	4.45
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	14	4.45
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	16	4.43
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	16	4.43
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	6	4.33
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	6	4.33
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	12	4.22
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	12	4.22
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	16	4.21
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	16	4.21
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	1	4.16
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	1	4.16
(1,506)	1:39:A:ILE:HD11	1:89:A:ILE:HA	5	4.06
(1,506)	1:39:A:ILE:HD12	1:89:A:ILE:HA	5	4.06
(1,506)	1:39:A:ILE:HD13	1:89:A:ILE:HA	5	4.06
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	12	4.06
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	12	4.06
(1,506)	1:39:A:ILE:HD11	1:89:A:ILE:HA	12	4.04
(1,506)	1:39:A:ILE:HD12	1:89:A:ILE:HA	12	4.04
(1,506)	1:39:A:ILE:HD13	1:89:A:ILE:HA	12	4.04
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	3	3.97
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	3	3.97
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	9	3.91
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	9	3.91
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	1	3.89
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	1	3.89
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	7	3.89
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	7	3.89
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	19	3.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	19	3.73
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	6	3.71
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	6	3.71
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	7	3.71
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	7	3.71
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	19	3.69
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	19	3.69
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	2	3.68
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	2	3.68
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	8	3.67
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	8	3.67
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	20	3.67
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	20	3.67
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	14	3.63
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	14	3.63
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	8	3.62
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	8	3.62
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	13	3.6
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	13	3.6
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	13	3.6
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	9	3.55
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	9	3.55
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	1	3.43
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	1	3.43
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	8	3.42
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	8	3.42
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	8	3.42
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	20	3.4
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	20	3.4
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	12	3.36
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	12	3.36
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	15	3.33
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	15	3.33
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	12	3.31
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	12	3.31
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	12	3.31
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	9	3.31
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	9	3.31
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	2	3.3
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	2	3.3
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	4	3.27
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	4	3.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	2	3.26
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	2	3.26
(1,208)	1:39:A:ILE:HD11	1:56:A:ASP:HB3	12	3.24
(1,208)	1:39:A:ILE:HD12	1:56:A:ASP:HB3	12	3.24
(1,208)	1:39:A:ILE:HD13	1:56:A:ASP:HB3	12	3.24
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	11	3.16
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	11	3.16
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	11	3.16
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	3	3.16
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	3	3.16
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	5	3.13
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	5	3.13
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	5	3.13
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	16	3.13
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	16	3.13
(1,129)	1:60:A:MET:HE1	1:62:A:ASN:HA	5	3.13
(1,129)	1:60:A:MET:HE2	1:62:A:ASN:HA	5	3.13
(1,129)	1:60:A:MET:HE3	1:62:A:ASN:HA	5	3.13
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	14	3.1
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	14	3.1
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	17	3.1
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	17	3.1
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	17	3.1
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	2	3.1
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	2	3.1
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	15	3.09
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	15	3.09
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	15	3.09
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	2	3.09
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	2	3.09
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	2	3.09
(1,182)	1:39:A:ILE:HD11	1:89:A:ILE:HB	12	3.09
(1,182)	1:39:A:ILE:HD12	1:89:A:ILE:HB	12	3.09
(1,182)	1:39:A:ILE:HD13	1:89:A:ILE:HB	12	3.09
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	17	3.08
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	17	3.08
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	16	3.06
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	16	3.06
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	13	3.03
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	13	3.03
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	13	3.03
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	7	3.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	7	3.02
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	16	3.01
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	16	3.01
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	14	3.0
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	14	3.0
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	14	3.0
(1,182)	1:39:A:ILE:HD11	1:89:A:ILE:HB	5	3.0
(1,182)	1:39:A:ILE:HD12	1:89:A:ILE:HB	5	3.0
(1,182)	1:39:A:ILE:HD13	1:89:A:ILE:HB	5	3.0
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	2	2.99
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	2	2.99
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	9	2.99
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	9	2.99
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	15	2.98
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	15	2.98
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	17	2.96
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	17	2.96
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	17	2.96
(1,937)	1:39:A:ILE:HD11	1:58:A:VAL:H	5	2.96
(1,937)	1:39:A:ILE:HD12	1:58:A:VAL:H	5	2.96
(1,937)	1:39:A:ILE:HD13	1:58:A:VAL:H	5	2.96
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	8	2.96
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	8	2.96
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	8	2.96
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	8	2.96
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	1	2.94
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	1	2.94
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	14	2.94
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	14	2.94
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	14	2.94
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	18	2.94
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	18	2.94
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	16	2.93
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	16	2.93
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	9	2.92
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	9	2.92
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	15	2.9
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	15	2.9
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	15	2.9
(1,129)	1:60:A:MET:HE1	1:62:A:ASN:HA	13	2.9
(1,129)	1:60:A:MET:HE2	1:62:A:ASN:HA	13	2.9
(1,129)	1:60:A:MET:HE3	1:62:A:ASN:HA	13	2.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	12	2.89
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	12	2.89
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	13	2.89
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	13	2.89
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	13	2.89
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	13	2.89
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	15	2.89
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	15	2.89
(1,208)	1:39:A:ILE:HD11	1:56:A:ASP:HB3	5	2.89
(1,208)	1:39:A:ILE:HD12	1:56:A:ASP:HB3	5	2.89
(1,208)	1:39:A:ILE:HD13	1:56:A:ASP:HB3	5	2.89
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	11	2.87
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	11	2.87
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	3	2.85
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	3	2.85
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	3	2.85
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	13	2.85
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	13	2.85
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	13	2.85
(1,937)	1:39:A:ILE:HD11	1:58:A:VAL:H	12	2.84
(1,937)	1:39:A:ILE:HD12	1:58:A:VAL:H	12	2.84
(1,937)	1:39:A:ILE:HD13	1:58:A:VAL:H	12	2.84
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	2	2.84
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	2	2.84
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	6	2.84
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	6	2.84
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	11	2.84
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	11	2.84
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	11	2.84
(1,129)	1:60:A:MET:HE1	1:62:A:ASN:HA	15	2.84
(1,129)	1:60:A:MET:HE2	1:62:A:ASN:HA	15	2.84
(1,129)	1:60:A:MET:HE3	1:62:A:ASN:HA	15	2.84
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	7	2.83
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	7	2.83
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE2	12	2.83
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE3	12	2.83
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE2	12	2.83
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE3	12	2.83
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE2	12	2.83
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE3	12	2.83
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	20	2.82
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	20	2.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	20	2.82
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	1	2.82
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	1	2.82
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	1	2.82
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	1	2.82
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	12	2.81
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	12	2.81
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	19	2.79
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	19	2.79
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	19	2.79
(1,465)	1:39:A:ILE:HD11	1:89:A:ILE:HG21	12	2.79
(1,465)	1:39:A:ILE:HD11	1:89:A:ILE:HG22	12	2.79
(1,465)	1:39:A:ILE:HD11	1:89:A:ILE:HG23	12	2.79
(1,465)	1:39:A:ILE:HD12	1:89:A:ILE:HG21	12	2.79
(1,465)	1:39:A:ILE:HD12	1:89:A:ILE:HG22	12	2.79
(1,465)	1:39:A:ILE:HD12	1:89:A:ILE:HG23	12	2.79
(1,465)	1:39:A:ILE:HD13	1:89:A:ILE:HG21	12	2.79
(1,465)	1:39:A:ILE:HD13	1:89:A:ILE:HG22	12	2.79
(1,465)	1:39:A:ILE:HD13	1:89:A:ILE:HG23	12	2.79
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE2	16	2.79
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE3	16	2.79
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	17	2.78
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	17	2.78
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	17	2.78
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	17	2.78
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	3	2.75
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	3	2.75
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	16	2.75
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	16	2.75
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	8	2.75
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	8	2.75
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	8	2.75
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	11	2.75
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	11	2.75
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	11	2.73
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	11	2.73
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	11	2.73
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	4	2.73
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	4	2.73
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	15	2.73
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	15	2.73
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	15	2.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	18	2.72
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	18	2.72
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	18	2.72
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	8	2.72
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	8	2.72
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	15	2.71
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	15	2.71
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	14	2.69
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	14	2.69
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	14	2.69
(1,129)	1:60:A:MET:HE1	1:62:A:ASN:HA	17	2.69
(1,129)	1:60:A:MET:HE2	1:62:A:ASN:HA	17	2.69
(1,129)	1:60:A:MET:HE3	1:62:A:ASN:HA	17	2.69
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	14	2.68
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	14	2.68
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	14	2.68
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	14	2.68
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	9	2.68
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	9	2.68
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	9	2.68
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	9	2.68
(1,465)	1:39:A:ILE:HD11	1:89:A:ILE:HG21	5	2.67
(1,465)	1:39:A:ILE:HD11	1:89:A:ILE:HG22	5	2.67
(1,465)	1:39:A:ILE:HD11	1:89:A:ILE:HG23	5	2.67
(1,465)	1:39:A:ILE:HD12	1:89:A:ILE:HG21	5	2.67
(1,465)	1:39:A:ILE:HD12	1:89:A:ILE:HG22	5	2.67
(1,465)	1:39:A:ILE:HD12	1:89:A:ILE:HG23	5	2.67
(1,465)	1:39:A:ILE:HD13	1:89:A:ILE:HG21	5	2.67
(1,465)	1:39:A:ILE:HD13	1:89:A:ILE:HG22	5	2.67
(1,465)	1:39:A:ILE:HD13	1:89:A:ILE:HG23	5	2.67
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	4	2.66
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	4	2.66
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	4	2.66
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	9	2.66
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	9	2.66
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	9	2.66
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	3	2.66
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	3	2.66
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	9	2.65
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	9	2.65
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	9	2.65
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	18	2.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	18	2.65
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	20	2.64
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	20	2.64
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	20	2.64
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	20	2.64
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	20	2.64
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	20	2.64
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	20	2.6
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	20	2.6
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	5	2.6
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	5	2.6
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	16	2.59
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	16	2.59
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	16	2.59
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	16	2.59
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	3	2.56
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	3	2.56
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	3	2.56
(1,129)	1:60:A:MET:HE1	1:62:A:ASN:HA	14	2.56
(1,129)	1:60:A:MET:HE2	1:62:A:ASN:HA	14	2.56
(1,129)	1:60:A:MET:HE3	1:62:A:ASN:HA	14	2.56
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	1	2.55
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	1	2.55
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	15	2.55
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	15	2.55
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	8	2.55
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	8	2.55
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	8	2.55
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	8	2.55
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	8	2.55
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	8	2.55
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	7	2.53
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	7	2.53
(1,129)	1:60:A:MET:HE1	1:62:A:ASN:HA	9	2.53
(1,129)	1:60:A:MET:HE2	1:62:A:ASN:HA	9	2.53
(1,129)	1:60:A:MET:HE3	1:62:A:ASN:HA	9	2.53
(1,919)	1:37:A:ILE:HG12	1:67:A:ASP:H	6	2.52
(1,919)	1:37:A:ILE:HG13	1:67:A:ASP:H	6	2.52
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	7	2.52
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	7	2.52
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE2	3	2.52
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE3	3	2.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,129)	1:60:A:MET:HE1	1:62:A:ASN:HA	11	2.52
(1,129)	1:60:A:MET:HE2	1:62:A:ASN:HA	11	2.52
(1,129)	1:60:A:MET:HE3	1:62:A:ASN:HA	11	2.52
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	2	2.51
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	2	2.51
(1,811)	1:24:A:GLY:H	1:27:A:ASN:HB2	7	2.51
(1,811)	1:24:A:GLY:H	1:27:A:ASN:HB3	7	2.51
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	3	2.5
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	3	2.5
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	3	2.5
(1,919)	1:37:A:ILE:HG12	1:67:A:ASP:H	4	2.49
(1,919)	1:37:A:ILE:HG13	1:67:A:ASP:H	4	2.49
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	9	2.49
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	9	2.49
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	9	2.49
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	9	2.49
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	8	2.48
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	8	2.48
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	8	2.48
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	12	2.48
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	12	2.48
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	12	2.48
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	12	2.48
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	12	2.48
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	12	2.48
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	6	2.48
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	6	2.48
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	6	2.48
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	6	2.48
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	3	2.47
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	3	2.47
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	3	2.47
(1,919)	1:37:A:ILE:HG12	1:67:A:ASP:H	2	2.46
(1,919)	1:37:A:ILE:HG13	1:67:A:ASP:H	2	2.46
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	18	2.46
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	18	2.46
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	18	2.46
(1,893)	1:35:A:THR:HG21	1:68:A:ASN:H	11	2.45
(1,893)	1:35:A:THR:HG22	1:68:A:ASN:H	11	2.45
(1,893)	1:35:A:THR:HG23	1:68:A:ASN:H	11	2.45
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	6	2.45
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	6	2.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,129)	1:60:A:MET:HE1	1:62:A:ASN:HA	3	2.45
(1,129)	1:60:A:MET:HE2	1:62:A:ASN:HA	3	2.45
(1,129)	1:60:A:MET:HE3	1:62:A:ASN:HA	3	2.45
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	1	2.44
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	1	2.44
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	3	2.44
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	3	2.44
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	3	2.44
(1,919)	1:37:A:ILE:HG12	1:67:A:ASP:H	5	2.43
(1,919)	1:37:A:ILE:HG13	1:67:A:ASP:H	5	2.43
(1,811)	1:24:A:GLY:H	1:27:A:ASN:HB2	20	2.43
(1,811)	1:24:A:GLY:H	1:27:A:ASN:HB3	20	2.43
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG2	2	2.43
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG3	2	2.43
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG2	2	2.43
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG3	2	2.43
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG2	2	2.43
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG3	2	2.43
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	6	2.42
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	6	2.42
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	8	2.42
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	8	2.42
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	8	2.42
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE2	4	2.41
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE3	4	2.41
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE2	4	2.41
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE3	4	2.41
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE2	4	2.41
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE3	4	2.41
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	2	2.4
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	2	2.4
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	2	2.4
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	5	2.4
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	5	2.4
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	5	2.4
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	12	2.38
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	12	2.38
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	12	2.38
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	16	2.38
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	16	2.38
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	16	2.38
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	12	2.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	12	2.38
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE2	1	2.38
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE3	1	2.38
(1,893)	1:35:A:THR:HG21	1:68:A:ASN:H	13	2.37
(1,893)	1:35:A:THR:HG22	1:68:A:ASN:H	13	2.37
(1,893)	1:35:A:THR:HG23	1:68:A:ASN:H	13	2.37
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	13	2.37
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	13	2.37
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	13	2.37
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG21	17	2.37
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG22	17	2.37
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG23	17	2.37
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE2	7	2.37
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE3	7	2.37
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE2	7	2.37
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE3	7	2.37
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE2	7	2.37
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE3	7	2.37
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	5	2.36
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	5	2.36
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	5	2.36
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	8	2.36
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	8	2.36
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	8	2.36
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	4	2.36
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	4	2.36
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	4	2.36
(1,612)	1:6:A:THR:HG21	1:87:A:ILE:H	15	2.35
(1,612)	1:6:A:THR:HG22	1:87:A:ILE:H	15	2.35
(1,612)	1:6:A:THR:HG23	1:87:A:ILE:H	15	2.35
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	15	2.35
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	15	2.35
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	15	2.35
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	17	2.35
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	17	2.35
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	17	2.35
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	17	2.35
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	17	2.35
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	17	2.35
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	2	2.34
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	2	2.34
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	17	2.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	17	2.34
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	17	2.34
(1,954)	1:39:A:ILE:HG21	1:41:A:ASP:H	12	2.33
(1,954)	1:39:A:ILE:HG22	1:41:A:ASP:H	12	2.33
(1,954)	1:39:A:ILE:HG23	1:41:A:ASP:H	12	2.33
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	4	2.33
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	4	2.33
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	4	2.33
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	15	2.32
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	15	2.32
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	15	2.32
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	13	2.32
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	13	2.32
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	13	2.32
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	9	2.32
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	9	2.32
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	9	2.32
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	9	2.32
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	9	2.32
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	9	2.32
(1,445)	1:21:A:ILE:HD11	1:37:A:ILE:HB	14	2.32
(1,445)	1:21:A:ILE:HD12	1:37:A:ILE:HB	14	2.32
(1,445)	1:21:A:ILE:HD13	1:37:A:ILE:HB	14	2.32
(1,192)	1:8:A:THR:HG21	1:84:A:ASN:HB3	13	2.32
(1,192)	1:8:A:THR:HG22	1:84:A:ASN:HB3	13	2.32
(1,192)	1:8:A:THR:HG23	1:84:A:ASN:HB3	13	2.32
(1,129)	1:60:A:MET:HE1	1:62:A:ASN:HA	8	2.32
(1,129)	1:60:A:MET:HE2	1:62:A:ASN:HA	8	2.32
(1,129)	1:60:A:MET:HE3	1:62:A:ASN:HA	8	2.32
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	12	2.31
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	12	2.31
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	12	2.31
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	9	2.31
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	9	2.31
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	4	2.3
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	4	2.3
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	4	2.3
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG21	17	2.3
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG22	17	2.3
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG23	17	2.3
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG21	17	2.3
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG22	17	2.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG23	17	2.3
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB2	14	2.29
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB3	14	2.29
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB2	14	2.29
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB3	14	2.29
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB2	14	2.29
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB3	14	2.29
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE2	10	2.29
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE3	10	2.29
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	8	2.29
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	8	2.29
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	8	2.29
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	6	2.28
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	6	2.28
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	6	2.28
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	6	2.28
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	6	2.28
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	6	2.28
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	1	2.27
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	1	2.27
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	14	2.26
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	14	2.26
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	16	2.26
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	16	2.26
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	19	2.25
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	19	2.25
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	9	2.25
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	9	2.25
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	9	2.25
(1,445)	1:21:A:ILE:HD11	1:37:A:ILE:HB	15	2.25
(1,445)	1:21:A:ILE:HD12	1:37:A:ILE:HB	15	2.25
(1,445)	1:21:A:ILE:HD13	1:37:A:ILE:HB	15	2.25
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	4	2.25
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	4	2.25
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	9	2.24
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	9	2.24
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	9	2.24
(1,335)	1:6:A:THR:HG21	1:86:A:LYS:HG2	15	2.24
(1,335)	1:6:A:THR:HG22	1:86:A:LYS:HG2	15	2.24
(1,335)	1:6:A:THR:HG23	1:86:A:LYS:HG2	15	2.24
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	16	2.23
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	16	2.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	16	2.23
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	3	2.22
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	3	2.22
(1,893)	1:35:A:THR:HG21	1:68:A:ASN:H	17	2.22
(1,893)	1:35:A:THR:HG22	1:68:A:ASN:H	17	2.22
(1,893)	1:35:A:THR:HG23	1:68:A:ASN:H	17	2.22
(1,445)	1:21:A:ILE:HD11	1:37:A:ILE:HB	13	2.22
(1,445)	1:21:A:ILE:HD12	1:37:A:ILE:HB	13	2.22
(1,445)	1:21:A:ILE:HD13	1:37:A:ILE:HB	13	2.22
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	17	2.22
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	17	2.22
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	17	2.22
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	17	2.22
(1,954)	1:39:A:ILE:HG21	1:41:A:ASP:H	5	2.21
(1,954)	1:39:A:ILE:HG22	1:41:A:ASP:H	5	2.21
(1,954)	1:39:A:ILE:HG23	1:41:A:ASP:H	5	2.21
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG21	5	2.21
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG22	5	2.21
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG23	5	2.21
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	15	2.21
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	15	2.21
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	15	2.21
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	15	2.21
(1,208)	1:39:A:ILE:HD11	1:56:A:ASP:HB3	11	2.21
(1,208)	1:39:A:ILE:HD12	1:56:A:ASP:HB3	11	2.21
(1,208)	1:39:A:ILE:HD13	1:56:A:ASP:HB3	11	2.21
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	13	2.2
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	13	2.2
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	13	2.2
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG21	11	2.2
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG22	11	2.2
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG23	11	2.2
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	5	2.19
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	5	2.19
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	5	2.19
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	2	2.19
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	2	2.19
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	2	2.19
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG2	7	2.19
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG3	7	2.19
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG2	7	2.19
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG3	7	2.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG2	7	2.19
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG3	7	2.19
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	9	2.18
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	9	2.18
(1,860)	1:25:A:ARG:HD2	1:70:A:GLU:H	20	2.18
(1,860)	1:25:A:ARG:HD3	1:70:A:GLU:H	20	2.18
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	12	2.18
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	12	2.18
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	12	2.18
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	6	2.18
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	6	2.18
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	6	2.18
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	7	2.18
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	7	2.18
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	7	2.18
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	20	2.18
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	20	2.18
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	20	2.18
(1,192)	1:8:A:THR:HG21	1:84:A:ASN:HB3	14	2.18
(1,192)	1:8:A:THR:HG22	1:84:A:ASN:HB3	14	2.18
(1,192)	1:8:A:THR:HG23	1:84:A:ASN:HB3	14	2.18
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	14	2.17
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	14	2.17
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG21	11	2.17
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG22	11	2.17
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG23	11	2.17
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG21	11	2.17
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG22	11	2.17
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG23	11	2.17
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	14	2.17
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	14	2.17
(1,644)	1:8:A:THR:HG21	1:85:A:ALA:H	15	2.16
(1,644)	1:8:A:THR:HG22	1:85:A:ALA:H	15	2.16
(1,644)	1:8:A:THR:HG23	1:85:A:ALA:H	15	2.16
(1,612)	1:6:A:THR:HG21	1:87:A:ILE:H	2	2.16
(1,612)	1:6:A:THR:HG22	1:87:A:ILE:H	2	2.16
(1,612)	1:6:A:THR:HG23	1:87:A:ILE:H	2	2.16
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	2	2.16
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	2	2.16
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	2	2.16
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	2	2.16
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	2	2.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	2	2.16
(1,612)	1:6:A:THR:HG21	1:87:A:ILE:H	20	2.15
(1,612)	1:6:A:THR:HG22	1:87:A:ILE:H	20	2.15
(1,612)	1:6:A:THR:HG23	1:87:A:ILE:H	20	2.15
(1,445)	1:21:A:ILE:HD11	1:37:A:ILE:HB	10	2.15
(1,445)	1:21:A:ILE:HD12	1:37:A:ILE:HB	10	2.15
(1,445)	1:21:A:ILE:HD13	1:37:A:ILE:HB	10	2.15
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	9	2.14
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	9	2.14
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	5	2.14
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	5	2.14
(1,950)	1:39:A:ILE:HG21	1:42:A:VAL:H	12	2.14
(1,950)	1:39:A:ILE:HG22	1:42:A:VAL:H	12	2.14
(1,950)	1:39:A:ILE:HG23	1:42:A:VAL:H	12	2.14
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	18	2.14
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	18	2.14
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	18	2.14
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	19	2.14
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	19	2.14
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	19	2.14
(1,525)	1:88:A:THR:HG21	1:90:A:ARG:HA	5	2.14
(1,525)	1:88:A:THR:HG22	1:90:A:ARG:HA	5	2.14
(1,525)	1:88:A:THR:HG23	1:90:A:ARG:HA	5	2.14
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	16	2.14
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	16	2.14
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	16	2.14
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	16	2.14
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	16	2.14
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	16	2.14
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	10	2.14
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	10	2.14
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	10	2.14
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	10	2.14
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD2	1	2.13
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD3	1	2.13
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	8	2.13
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	8	2.13
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	8	2.13
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	8	2.13
(1,612)	1:6:A:THR:HG21	1:87:A:ILE:H	4	2.12
(1,612)	1:6:A:THR:HG22	1:87:A:ILE:H	4	2.12
(1,612)	1:6:A:THR:HG23	1:87:A:ILE:H	4	2.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,463)	1:39:A:ILE:HD11	1:56:A:ASP:HB2	12	2.12
(1,463)	1:39:A:ILE:HD12	1:56:A:ASP:HB2	12	2.12
(1,463)	1:39:A:ILE:HD13	1:56:A:ASP:HB2	12	2.12
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	3	2.11
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	3	2.11
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	3	2.11
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	11	2.11
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	11	2.11
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	11	2.11
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	1	2.11
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	1	2.11
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	1	2.11
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	11	2.11
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	11	2.11
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	14	2.11
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	14	2.11
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD11	12	2.1
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD12	12	2.1
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD13	12	2.1
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD21	12	2.1
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD22	12	2.1
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD23	12	2.1
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD11	12	2.1
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD12	12	2.1
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD13	12	2.1
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD21	12	2.1
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD22	12	2.1
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD23	12	2.1
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD11	12	2.1
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD12	12	2.1
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD13	12	2.1
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD21	12	2.1
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD22	12	2.1
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD23	12	2.1
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	5	2.1
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	5	2.1
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	7	2.09
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	7	2.09
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	12	2.09
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	12	2.09
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	12	2.09
(1,612)	1:6:A:THR:HG21	1:87:A:ILE:H	8	2.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,612)	1:6:A:THR:HG22	1:87:A:ILE:H	8	2.09
(1,612)	1:6:A:THR:HG23	1:87:A:ILE:H	8	2.09
(1,335)	1:6:A:THR:HG21	1:86:A:LYS:HG2	8	2.09
(1,335)	1:6:A:THR:HG22	1:86:A:LYS:HG2	8	2.09
(1,335)	1:6:A:THR:HG23	1:86:A:LYS:HG2	8	2.09
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	7	2.08
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	7	2.08
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	7	2.08
(1,612)	1:6:A:THR:HG21	1:87:A:ILE:H	6	2.07
(1,612)	1:6:A:THR:HG22	1:87:A:ILE:H	6	2.07
(1,612)	1:6:A:THR:HG23	1:87:A:ILE:H	6	2.07
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	3	2.07
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	3	2.07
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	3	2.07
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	3	2.07
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	9	2.07
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	9	2.07
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	17	2.07
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	17	2.07
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	20	2.06
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	20	2.06
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	20	2.06
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	20	2.06
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	20	2.06
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG2	13	2.06
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG3	13	2.06
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG2	13	2.06
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG3	13	2.06
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG2	13	2.06
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG3	13	2.06
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	20	2.06
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	20	2.06
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB2	15	2.05
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB3	15	2.05
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB2	15	2.05
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB3	15	2.05
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB2	15	2.05
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB3	15	2.05
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	5	2.05
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	5	2.05
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	5	2.05
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	12	2.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	12	2.05
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	12	2.05
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	1	2.05
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	1	2.05
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	1	2.05
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	18	2.04
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	18	2.04
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	12	2.04
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	12	2.04
(1,919)	1:37:A:ILE:HG12	1:67:A:ASP:H	12	2.04
(1,919)	1:37:A:ILE:HG13	1:67:A:ASP:H	12	2.04
(1,612)	1:6:A:THR:HG21	1:87:A:ILE:H	5	2.04
(1,612)	1:6:A:THR:HG22	1:87:A:ILE:H	5	2.04
(1,612)	1:6:A:THR:HG23	1:87:A:ILE:H	5	2.04
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	8	2.04
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	8	2.04
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	7	2.04
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	7	2.04
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	16	2.03
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	16	2.03
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	16	2.03
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	18	2.03
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	18	2.03
(1,917)	1:37:A:ILE:HG12	1:66:A:MET:H	4	2.03
(1,917)	1:37:A:ILE:HG13	1:66:A:MET:H	4	2.03
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	2	2.03
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	2	2.03
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	2	2.03
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	4	2.03
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	4	2.03
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	4	2.03
(1,612)	1:6:A:THR:HG21	1:87:A:ILE:H	7	2.03
(1,612)	1:6:A:THR:HG22	1:87:A:ILE:H	7	2.03
(1,612)	1:6:A:THR:HG23	1:87:A:ILE:H	7	2.03
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	13	2.03
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	13	2.03
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	13	2.03
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	10	2.03
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	10	2.03
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG21	17	2.03
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG22	17	2.03
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG23	17	2.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB2	8	2.02
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB3	8	2.02
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB2	8	2.02
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB3	8	2.02
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB2	8	2.02
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB3	8	2.02
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	15	2.02
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	15	2.02
(1,783)	1:21:A:ILE:HD11	1:38:A:VAL:H	15	2.02
(1,783)	1:21:A:ILE:HD12	1:38:A:VAL:H	15	2.02
(1,783)	1:21:A:ILE:HD13	1:38:A:VAL:H	15	2.02
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	12	2.02
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	12	2.02
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	12	2.02
(1,644)	1:8:A:THR:HG21	1:85:A:ALA:H	14	2.02
(1,644)	1:8:A:THR:HG22	1:85:A:ALA:H	14	2.02
(1,644)	1:8:A:THR:HG23	1:85:A:ALA:H	14	2.02
(1,422)	1:69:A:VAL:HG23	1:73:A:PHE:HD1	13	2.02
(1,422)	1:69:A:VAL:HG23	1:73:A:PHE:HD2	13	2.02
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	3	2.02
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	3	2.02
(1,612)	1:6:A:THR:HG21	1:87:A:ILE:H	17	2.01
(1,612)	1:6:A:THR:HG22	1:87:A:ILE:H	17	2.01
(1,612)	1:6:A:THR:HG23	1:87:A:ILE:H	17	2.01
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG2	20	2.01
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG3	20	2.01
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG2	20	2.01
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG3	20	2.01
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG2	20	2.01
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG3	20	2.01
(1,192)	1:8:A:THR:HG21	1:84:A:ASN:HB3	8	2.01
(1,192)	1:8:A:THR:HG22	1:84:A:ASN:HB3	8	2.01
(1,192)	1:8:A:THR:HG23	1:84:A:ASN:HB3	8	2.01
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	16	2.0
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	16	2.0
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	8	2.0
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	8	2.0
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	8	2.0
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	17	2.0
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	17	2.0
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	17	2.0
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD11	14	2.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD12	14	2.0
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD13	14	2.0
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD11	14	2.0
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD12	14	2.0
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD13	14	2.0
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD11	14	2.0
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD12	14	2.0
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD13	14	2.0
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	9	1.99
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	9	1.99
(1,950)	1:39:A:ILE:HG21	1:42:A:VAL:H	5	1.99
(1,950)	1:39:A:ILE:HG22	1:42:A:VAL:H	5	1.99
(1,950)	1:39:A:ILE:HG23	1:42:A:VAL:H	5	1.99
(1,335)	1:6:A:THR:HG21	1:86:A:LYS:HG2	5	1.99
(1,335)	1:6:A:THR:HG22	1:86:A:LYS:HG2	5	1.99
(1,335)	1:6:A:THR:HG23	1:86:A:LYS:HG2	5	1.99
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	18	1.99
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	18	1.99
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	3	1.99
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	3	1.99
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	15	1.98
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	15	1.98
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	4	1.98
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	4	1.98
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	4	1.98
(1,917)	1:37:A:ILE:HG12	1:66:A:MET:H	6	1.98
(1,917)	1:37:A:ILE:HG13	1:66:A:MET:H	6	1.98
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	16	1.98
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	16	1.98
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	16	1.98
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	16	1.98
(1,860)	1:25:A:ARG:HD2	1:70:A:GLU:H	7	1.97
(1,860)	1:25:A:ARG:HD3	1:70:A:GLU:H	7	1.97
(1,781)	1:21:A:ILE:HG21	1:75:A:VAL:H	12	1.97
(1,781)	1:21:A:ILE:HG22	1:75:A:VAL:H	12	1.97
(1,781)	1:21:A:ILE:HG23	1:75:A:VAL:H	12	1.97
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	2	1.97
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	2	1.97
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	2	1.97
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	9	1.97
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	9	1.97
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	4	1.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	4	1.96
(1,783)	1:21:A:ILE:HD11	1:38:A:VAL:H	14	1.96
(1,783)	1:21:A:ILE:HD12	1:38:A:VAL:H	14	1.96
(1,783)	1:21:A:ILE:HD13	1:38:A:VAL:H	14	1.96
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	3	1.96
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	3	1.96
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	3	1.96
(1,644)	1:8:A:THR:HG21	1:85:A:ALA:H	3	1.96
(1,644)	1:8:A:THR:HG22	1:85:A:ALA:H	3	1.96
(1,644)	1:8:A:THR:HG23	1:85:A:ALA:H	3	1.96
(1,783)	1:21:A:ILE:HD11	1:38:A:VAL:H	3	1.95
(1,783)	1:21:A:ILE:HD12	1:38:A:VAL:H	3	1.95
(1,783)	1:21:A:ILE:HD13	1:38:A:VAL:H	3	1.95
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD2	5	1.95
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD3	5	1.95
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	15	1.94
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	15	1.94
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	20	1.94
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	20	1.94
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	6	1.94
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	6	1.94
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	6	1.94
(1,250)	1:6:A:THR:HG21	1:86:A:LYS:HB3	8	1.94
(1,250)	1:6:A:THR:HG22	1:86:A:LYS:HB3	8	1.94
(1,250)	1:6:A:THR:HG23	1:86:A:LYS:HB3	8	1.94
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	11	1.93
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	11	1.93
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	16	1.93
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	16	1.93
(1,921)	1:37:A:ILE:HG12	1:68:A:ASN:H	6	1.93
(1,921)	1:37:A:ILE:HG13	1:68:A:ASN:H	6	1.93
(1,422)	1:69:A:VAL:HG22	1:73:A:PHE:HD1	2	1.93
(1,422)	1:69:A:VAL:HG22	1:73:A:PHE:HD2	2	1.93
(1,335)	1:6:A:THR:HG21	1:86:A:LYS:HG2	2	1.93
(1,335)	1:6:A:THR:HG22	1:86:A:LYS:HG2	2	1.93
(1,335)	1:6:A:THR:HG23	1:86:A:LYS:HG2	2	1.93
(1,335)	1:6:A:THR:HG21	1:86:A:LYS:HG2	12	1.93
(1,335)	1:6:A:THR:HG22	1:86:A:LYS:HG2	12	1.93
(1,335)	1:6:A:THR:HG23	1:86:A:LYS:HG2	12	1.93
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	12	1.93
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	12	1.93
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	12	1.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,783)	1:21:A:ILE:HD11	1:38:A:VAL:H	10	1.92
(1,783)	1:21:A:ILE:HD12	1:38:A:VAL:H	10	1.92
(1,783)	1:21:A:ILE:HD13	1:38:A:VAL:H	10	1.92
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	12	1.92
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	12	1.92
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD11	5	1.91
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD12	5	1.91
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD13	5	1.91
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD21	5	1.91
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD22	5	1.91
(1,1575)	1:39:A:ILE:HD11	1:52:A:LEU:HD23	5	1.91
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD11	5	1.91
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD12	5	1.91
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD13	5	1.91
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD21	5	1.91
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD22	5	1.91
(1,1575)	1:39:A:ILE:HD12	1:52:A:LEU:HD23	5	1.91
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD11	5	1.91
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD12	5	1.91
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD13	5	1.91
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD21	5	1.91
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD22	5	1.91
(1,1575)	1:39:A:ILE:HD13	1:52:A:LEU:HD23	5	1.91
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	7	1.91
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	7	1.91
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	7	1.91
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	9	1.91
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	9	1.91
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	9	1.91
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD11	13	1.91
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD12	13	1.91
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD13	13	1.91
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD11	13	1.91
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD12	13	1.91
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD13	13	1.91
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD11	13	1.91
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD12	13	1.91
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD13	13	1.91
(1,335)	1:6:A:THR:HG21	1:86:A:LYS:HG2	4	1.91
(1,335)	1:6:A:THR:HG22	1:86:A:LYS:HG2	4	1.91
(1,335)	1:6:A:THR:HG23	1:86:A:LYS:HG2	4	1.91
(1,335)	1:6:A:THR:HG21	1:86:A:LYS:HG2	20	1.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,335)	1:6:A:THR:HG22	1:86:A:LYS:HG2	20	1.91
(1,335)	1:6:A:THR:HG23	1:86:A:LYS:HG2	20	1.91
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	16	1.9
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	16	1.9
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	11	1.9
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	11	1.9
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	8	1.9
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	8	1.9
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	8	1.9
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	3	1.88
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	3	1.88
(1,612)	1:6:A:THR:HG21	1:87:A:ILE:H	12	1.88
(1,612)	1:6:A:THR:HG22	1:87:A:ILE:H	12	1.88
(1,612)	1:6:A:THR:HG23	1:87:A:ILE:H	12	1.88
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG21	6	1.88
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG22	6	1.88
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG23	6	1.88
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG21	6	1.88
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG22	6	1.88
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG23	6	1.88
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG21	6	1.88
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG22	6	1.88
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG23	6	1.88
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	4	1.88
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	4	1.88
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	17	1.88
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	17	1.88
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	3	1.88
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	3	1.88
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	3	1.88
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	3	1.88
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB2	13	1.87
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB3	13	1.87
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB2	13	1.87
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB3	13	1.87
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB2	13	1.87
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB3	13	1.87
(1,1213)	1:60:A:MET:HE1	1:63:A:GLY:H	5	1.87
(1,1213)	1:60:A:MET:HE2	1:63:A:GLY:H	5	1.87
(1,1213)	1:60:A:MET:HE3	1:63:A:GLY:H	5	1.87
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	15	1.87
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	15	1.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	15	1.87
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	15	1.87
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	15	1.87
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	15	1.87
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	11	1.87
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	11	1.87
(1,645)	1:8:A:THR:HG21	1:86:A:LYS:H	14	1.86
(1,645)	1:8:A:THR:HG22	1:86:A:LYS:H	14	1.86
(1,645)	1:8:A:THR:HG23	1:86:A:LYS:H	14	1.86
(1,645)	1:8:A:THR:HG21	1:86:A:LYS:H	15	1.86
(1,645)	1:8:A:THR:HG22	1:86:A:LYS:H	15	1.86
(1,645)	1:8:A:THR:HG23	1:86:A:LYS:H	15	1.86
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	15	1.86
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	15	1.86
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	15	1.86
(1,335)	1:6:A:THR:HG21	1:86:A:LYS:HG2	7	1.86
(1,335)	1:6:A:THR:HG22	1:86:A:LYS:HG2	7	1.86
(1,335)	1:6:A:THR:HG23	1:86:A:LYS:HG2	7	1.86
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE2	14	1.86
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE3	14	1.86
(1,644)	1:8:A:THR:HG21	1:85:A:ALA:H	13	1.85
(1,644)	1:8:A:THR:HG22	1:85:A:ALA:H	13	1.85
(1,644)	1:8:A:THR:HG23	1:85:A:ALA:H	13	1.85
(1,644)	1:8:A:THR:HG21	1:85:A:ALA:H	16	1.85
(1,644)	1:8:A:THR:HG22	1:85:A:ALA:H	16	1.85
(1,644)	1:8:A:THR:HG23	1:85:A:ALA:H	16	1.85
(1,134)	1:35:A:THR:HG21	1:68:A:ASN:HA	11	1.85
(1,134)	1:35:A:THR:HG22	1:68:A:ASN:HA	11	1.85
(1,134)	1:35:A:THR:HG23	1:68:A:ASN:HA	11	1.85
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	7	1.84
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	7	1.84
(1,917)	1:37:A:ILE:HG12	1:66:A:MET:H	2	1.84
(1,917)	1:37:A:ILE:HG13	1:66:A:MET:H	2	1.84
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	7	1.84
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	7	1.84
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	7	1.84
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	18	1.84
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	18	1.84
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	18	1.84
(1,192)	1:8:A:THR:HG21	1:84:A:ASN:HB3	15	1.84
(1,192)	1:8:A:THR:HG22	1:84:A:ASN:HB3	15	1.84
(1,192)	1:8:A:THR:HG23	1:84:A:ASN:HB3	15	1.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE2	15	1.83
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE3	15	1.83
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	13	1.83
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	13	1.83
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	13	1.83
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	13	1.83
(1,921)	1:37:A:ILE:HG12	1:68:A:ASN:H	2	1.83
(1,921)	1:37:A:ILE:HG13	1:68:A:ASN:H	2	1.83
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	11	1.83
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	11	1.83
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	11	1.83
(1,208)	1:39:A:ILE:HD11	1:56:A:ASP:HB3	15	1.83
(1,208)	1:39:A:ILE:HD12	1:56:A:ASP:HB3	15	1.83
(1,208)	1:39:A:ILE:HD13	1:56:A:ASP:HB3	15	1.83
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE2	8	1.83
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE3	8	1.83
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE2	8	1.83
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE3	8	1.83
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE2	8	1.83
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE3	8	1.83
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	7	1.83
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	7	1.83
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	7	1.83
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	7	1.83
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	2	1.82
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	2	1.82
(1,921)	1:37:A:ILE:HG12	1:68:A:ASN:H	4	1.82
(1,921)	1:37:A:ILE:HG13	1:68:A:ASN:H	4	1.82
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD11	5	1.82
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD12	5	1.82
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD13	5	1.82
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD11	5	1.82
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD12	5	1.82
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD13	5	1.82
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD11	5	1.82
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD12	5	1.82
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD13	5	1.82
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	7	1.82
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	7	1.82
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	19	1.81
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	19	1.81
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	7	1.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	7	1.81
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	7	1.81
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	8	1.81
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	8	1.81
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	8	1.81
(1,335)	1:6:A:THR:HG21	1:86:A:LYS:HG2	6	1.81
(1,335)	1:6:A:THR:HG22	1:86:A:LYS:HG2	6	1.81
(1,335)	1:6:A:THR:HG23	1:86:A:LYS:HG2	6	1.81
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	13	1.81
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	13	1.81
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	13	1.81
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	20	1.81
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	20	1.81
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	20	1.81
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	20	1.81
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	15	1.8
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	15	1.8
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	4	1.8
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	4	1.8
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	4	1.8
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	4	1.8
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	4	1.8
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	4	1.8
(1,134)	1:35:A:THR:HG21	1:68:A:ASN:HA	13	1.8
(1,134)	1:35:A:THR:HG22	1:68:A:ASN:HA	13	1.8
(1,134)	1:35:A:THR:HG23	1:68:A:ASN:HA	13	1.8
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	14	1.79
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	14	1.79
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	14	1.79
(1,644)	1:8:A:THR:HG21	1:85:A:ALA:H	8	1.79
(1,644)	1:8:A:THR:HG22	1:85:A:ALA:H	8	1.79
(1,644)	1:8:A:THR:HG23	1:85:A:ALA:H	8	1.79
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG21	3	1.79
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG22	3	1.79
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG23	3	1.79
(1,335)	1:6:A:THR:HG21	1:86:A:LYS:HG2	9	1.79
(1,335)	1:6:A:THR:HG22	1:86:A:LYS:HG2	9	1.79
(1,335)	1:6:A:THR:HG23	1:86:A:LYS:HG2	9	1.79
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD2	8	1.79
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD3	8	1.79
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	7	1.79
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	7	1.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	7	1.79
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	7	1.79
(1,422)	1:69:A:VAL:HG21	1:73:A:PHE:HD1	20	1.78
(1,422)	1:69:A:VAL:HG21	1:73:A:PHE:HD2	20	1.78
(1,192)	1:8:A:THR:HG21	1:84:A:ASN:HB3	4	1.78
(1,192)	1:8:A:THR:HG22	1:84:A:ASN:HB3	4	1.78
(1,192)	1:8:A:THR:HG23	1:84:A:ASN:HB3	4	1.78
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE2	6	1.78
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE3	6	1.78
(1,365)	1:8:A:THR:HG21	1:86:A:LYS:HE2	16	1.77
(1,365)	1:8:A:THR:HG21	1:86:A:LYS:HE3	16	1.77
(1,365)	1:8:A:THR:HG22	1:86:A:LYS:HE2	16	1.77
(1,365)	1:8:A:THR:HG22	1:86:A:LYS:HE3	16	1.77
(1,365)	1:8:A:THR:HG23	1:86:A:LYS:HE2	16	1.77
(1,365)	1:8:A:THR:HG23	1:86:A:LYS:HE3	16	1.77
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	16	1.77
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	16	1.77
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	16	1.77
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	16	1.77
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	2	1.76
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	2	1.76
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG21	15	1.76
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG22	15	1.76
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG23	15	1.76
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG21	15	1.76
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG22	15	1.76
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG23	15	1.76
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG21	15	1.76
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG22	15	1.76
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG23	15	1.76
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE2	20	1.76
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE3	20	1.76
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE2	20	1.76
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE3	20	1.76
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE2	20	1.76
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE3	20	1.76
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	11	1.76
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	11	1.76
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	11	1.76
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	11	1.76
(1,1255)	1:69:A:VAL:HG21	1:74:A:ALA:H	16	1.75
(1,1255)	1:69:A:VAL:HG22	1:74:A:ALA:H	16	1.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1255)	1:69:A:VAL:HG23	1:74:A:ALA:H	16	1.75
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG2	13	1.75
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG3	13	1.75
(1,856)	1:25:A:ARG:HG2	1:70:A:GLU:H	4	1.75
(1,856)	1:25:A:ARG:HG3	1:70:A:GLU:H	4	1.75
(1,463)	1:39:A:ILE:HD11	1:56:A:ASP:HB2	5	1.75
(1,463)	1:39:A:ILE:HD12	1:56:A:ASP:HB2	5	1.75
(1,463)	1:39:A:ILE:HD13	1:56:A:ASP:HB2	5	1.75
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	13	1.75
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	13	1.75
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	1	1.75
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	1	1.75
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	1	1.75
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	1	1.75
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	14	1.75
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	14	1.75
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	14	1.75
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	14	1.75
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	4	1.74
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	4	1.74
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	4	1.74
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG12	4	1.74
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG13	4	1.74
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD11	14	1.74
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD12	14	1.74
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD13	14	1.74
(1,250)	1:6:A:THR:HG21	1:86:A:LYS:HB3	5	1.74
(1,250)	1:6:A:THR:HG22	1:86:A:LYS:HB3	5	1.74
(1,250)	1:6:A:THR:HG23	1:86:A:LYS:HB3	5	1.74
(1,250)	1:6:A:THR:HG21	1:86:A:LYS:HB3	12	1.74
(1,250)	1:6:A:THR:HG22	1:86:A:LYS:HB3	12	1.74
(1,250)	1:6:A:THR:HG23	1:86:A:LYS:HB3	12	1.74
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	4	1.74
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	4	1.74
(1,645)	1:8:A:THR:HG21	1:86:A:LYS:H	16	1.73
(1,645)	1:8:A:THR:HG22	1:86:A:LYS:H	16	1.73
(1,645)	1:8:A:THR:HG23	1:86:A:LYS:H	16	1.73
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	5	1.73
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	5	1.73
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	17	1.73
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	17	1.73
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	6	1.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	6	1.72
(1,1251)	1:69:A:VAL:HG21	1:75:A:VAL:H	16	1.72
(1,1251)	1:69:A:VAL:HG22	1:75:A:VAL:H	16	1.72
(1,1251)	1:69:A:VAL:HG23	1:75:A:VAL:H	16	1.72
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD11	14	1.72
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD12	14	1.72
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD13	14	1.72
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD11	14	1.72
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD12	14	1.72
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD13	14	1.72
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD11	14	1.72
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD12	14	1.72
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD13	14	1.72
(1,445)	1:21:A:ILE:HD11	1:37:A:ILE:HB	8	1.72
(1,445)	1:21:A:ILE:HD12	1:37:A:ILE:HB	8	1.72
(1,445)	1:21:A:ILE:HD13	1:37:A:ILE:HB	8	1.72
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	15	1.72
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	15	1.72
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	2	1.71
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	2	1.71
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	10	1.71
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	10	1.71
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	18	1.71
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	18	1.71
(1,917)	1:37:A:ILE:HG12	1:66:A:MET:H	5	1.71
(1,917)	1:37:A:ILE:HG13	1:66:A:MET:H	5	1.71
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG21	2	1.71
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG22	2	1.71
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG23	2	1.71
(1,208)	1:39:A:ILE:HD11	1:56:A:ASP:HB3	6	1.71
(1,208)	1:39:A:ILE:HD12	1:56:A:ASP:HB3	6	1.71
(1,208)	1:39:A:ILE:HD13	1:56:A:ASP:HB3	6	1.71
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE2	8	1.71
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE3	8	1.71
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	6	1.7
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	6	1.7
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	1	1.7
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	1	1.7
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	1	1.7
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG2	16	1.7
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG3	16	1.7
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG2	16	1.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG3	16	1.7
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG2	16	1.7
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG3	16	1.7
(1,921)	1:37:A:ILE:HG12	1:68:A:ASN:H	12	1.69
(1,921)	1:37:A:ILE:HG13	1:68:A:ASN:H	12	1.69
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	19	1.69
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	19	1.69
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	19	1.69
(1,612)	1:6:A:THR:HG21	1:87:A:ILE:H	9	1.69
(1,612)	1:6:A:THR:HG22	1:87:A:ILE:H	9	1.69
(1,612)	1:6:A:THR:HG23	1:87:A:ILE:H	9	1.69
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG21	18	1.69
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG22	18	1.69
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG23	18	1.69
(1,1549)	1:21:A:ILE:HG12	1:75:A:VAL:HB	7	1.68
(1,1549)	1:21:A:ILE:HG13	1:75:A:VAL:HB	7	1.68
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	4	1.68
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	4	1.68
(1,645)	1:8:A:THR:HG21	1:86:A:LYS:H	8	1.68
(1,645)	1:8:A:THR:HG22	1:86:A:LYS:H	8	1.68
(1,645)	1:8:A:THR:HG23	1:86:A:LYS:H	8	1.68
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	2	1.68
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	2	1.68
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	2	1.68
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	2	1.68
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	2	1.68
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	2	1.68
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	16	1.67
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	16	1.67
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	16	1.67
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	16	1.67
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	16	1.67
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	16	1.67
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	8	1.67
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	8	1.67
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	1	1.67
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	1	1.67
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	4	1.67
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	4	1.67
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	4	1.67
(1,365)	1:8:A:THR:HG21	1:86:A:LYS:HE2	8	1.67
(1,365)	1:8:A:THR:HG21	1:86:A:LYS:HE3	8	1.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,365)	1:8:A:THR:HG22	1:86:A:LYS:HE2	8	1.67
(1,365)	1:8:A:THR:HG22	1:86:A:LYS:HE3	8	1.67
(1,365)	1:8:A:THR:HG23	1:86:A:LYS:HE2	8	1.67
(1,365)	1:8:A:THR:HG23	1:86:A:LYS:HE3	8	1.67
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE2	9	1.66
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE3	9	1.66
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	7	1.66
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	7	1.66
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	7	1.66
(1,856)	1:25:A:ARG:HG2	1:70:A:GLU:H	13	1.66
(1,856)	1:25:A:ARG:HG3	1:70:A:GLU:H	13	1.66
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG21	13	1.66
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG22	13	1.66
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG23	13	1.66
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB2	12	1.65
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB3	12	1.65
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB2	12	1.65
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB3	12	1.65
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB2	12	1.65
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB3	12	1.65
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	6	1.65
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	6	1.65
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	7	1.65
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	7	1.65
(1,893)	1:35:A:THR:HG21	1:68:A:ASN:H	18	1.65
(1,893)	1:35:A:THR:HG22	1:68:A:ASN:H	18	1.65
(1,893)	1:35:A:THR:HG23	1:68:A:ASN:H	18	1.65
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG21	6	1.65
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG22	6	1.65
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG23	6	1.65
(1,642)	1:8:A:THR:HG21	1:10:A:HIS:H	3	1.65
(1,642)	1:8:A:THR:HG22	1:10:A:HIS:H	3	1.65
(1,642)	1:8:A:THR:HG23	1:10:A:HIS:H	3	1.65
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG21	10	1.65
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG22	10	1.65
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG23	10	1.65
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG21	10	1.65
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG22	10	1.65
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG23	10	1.65
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG21	10	1.65
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG22	10	1.65
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG23	10	1.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG21	14	1.65
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG22	14	1.65
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG23	14	1.65
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG21	14	1.65
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG22	14	1.65
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG23	14	1.65
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG21	14	1.65
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG22	14	1.65
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG23	14	1.65
(1,192)	1:8:A:THR:HG21	1:84:A:ASN:HB3	12	1.65
(1,192)	1:8:A:THR:HG22	1:84:A:ASN:HB3	12	1.65
(1,192)	1:8:A:THR:HG23	1:84:A:ASN:HB3	12	1.65
(1,152)	1:19:A:ILE:HG21	1:48:A:ALA:HA	14	1.65
(1,152)	1:19:A:ILE:HG22	1:48:A:ALA:HA	14	1.65
(1,152)	1:19:A:ILE:HG23	1:48:A:ALA:HA	14	1.65
(1,118)	1:37:A:ILE:HG12	1:74:A:ALA:HA	6	1.65
(1,118)	1:37:A:ILE:HG13	1:74:A:ALA:HA	6	1.65
(1,118)	1:37:A:ILE:HG12	1:74:A:ALA:HA	19	1.65
(1,118)	1:37:A:ILE:HG13	1:74:A:ALA:HA	19	1.65
(1,42)	1:37:A:ILE:HD11	1:71:A:HIS:HA	14	1.65
(1,42)	1:37:A:ILE:HD12	1:71:A:HIS:HA	14	1.65
(1,42)	1:37:A:ILE:HD13	1:71:A:HIS:HA	14	1.65
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	2	1.64
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	2	1.64
(1,1213)	1:60:A:MET:HE1	1:63:A:GLY:H	13	1.64
(1,1213)	1:60:A:MET:HE2	1:63:A:GLY:H	13	1.64
(1,1213)	1:60:A:MET:HE3	1:63:A:GLY:H	13	1.64
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	19	1.64
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	19	1.64
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	19	1.64
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	19	1.64
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	19	1.64
(1,781)	1:21:A:ILE:HG21	1:75:A:VAL:H	2	1.64
(1,781)	1:21:A:ILE:HG22	1:75:A:VAL:H	2	1.64
(1,781)	1:21:A:ILE:HG23	1:75:A:VAL:H	2	1.64
(1,645)	1:8:A:THR:HG21	1:86:A:LYS:H	13	1.64
(1,645)	1:8:A:THR:HG22	1:86:A:LYS:H	13	1.64
(1,645)	1:8:A:THR:HG23	1:86:A:LYS:H	13	1.64
(1,644)	1:8:A:THR:HG21	1:85:A:ALA:H	4	1.64
(1,644)	1:8:A:THR:HG22	1:85:A:ALA:H	4	1.64
(1,644)	1:8:A:THR:HG23	1:85:A:ALA:H	4	1.64
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD11	8	1.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD12	8	1.64
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD13	8	1.64
(1,427)	1:21:A:ILE:HG21	1:37:A:ILE:HB	7	1.64
(1,427)	1:21:A:ILE:HG22	1:37:A:ILE:HB	7	1.64
(1,427)	1:21:A:ILE:HG23	1:37:A:ILE:HB	7	1.64
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG21	5	1.64
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG22	5	1.64
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG23	5	1.64
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	11	1.64
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	11	1.64
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	11	1.64
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	11	1.64
(1,208)	1:39:A:ILE:HD11	1:56:A:ASP:HB3	3	1.64
(1,208)	1:39:A:ILE:HD12	1:56:A:ASP:HB3	3	1.64
(1,208)	1:39:A:ILE:HD13	1:56:A:ASP:HB3	3	1.64
(1,893)	1:35:A:THR:HG21	1:68:A:ASN:H	5	1.63
(1,893)	1:35:A:THR:HG22	1:68:A:ASN:H	5	1.63
(1,893)	1:35:A:THR:HG23	1:68:A:ASN:H	5	1.63
(1,860)	1:25:A:ARG:HD2	1:70:A:GLU:H	12	1.63
(1,860)	1:25:A:ARG:HD3	1:70:A:GLU:H	12	1.63
(1,642)	1:8:A:THR:HG21	1:10:A:HIS:H	4	1.63
(1,642)	1:8:A:THR:HG22	1:10:A:HIS:H	4	1.63
(1,642)	1:8:A:THR:HG23	1:10:A:HIS:H	4	1.63
(1,551)	1:1:A:ILE:HD11	1:2:A:TRP:H	7	1.63
(1,551)	1:1:A:ILE:HD12	1:2:A:TRP:H	7	1.63
(1,551)	1:1:A:ILE:HD13	1:2:A:TRP:H	7	1.63
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG21	5	1.63
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG22	5	1.63
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG23	5	1.63
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG21	5	1.63
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG22	5	1.63
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG23	5	1.63
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG21	5	1.63
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG22	5	1.63
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG23	5	1.63
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	2	1.63
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	2	1.63
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	2	1.63
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	2	1.63
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE2	20	1.63
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE3	20	1.63
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	13	1.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	13	1.63
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	20	1.63
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	20	1.63
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	20	1.62
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	20	1.62
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	20	1.62
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	20	1.62
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	20	1.62
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	20	1.62
(1,335)	1:6:A:THR:HG21	1:86:A:LYS:HG2	17	1.62
(1,335)	1:6:A:THR:HG22	1:86:A:LYS:HG2	17	1.62
(1,335)	1:6:A:THR:HG23	1:86:A:LYS:HG2	17	1.62
(1,208)	1:39:A:ILE:HD11	1:56:A:ASP:HB3	8	1.62
(1,208)	1:39:A:ILE:HD12	1:56:A:ASP:HB3	8	1.62
(1,208)	1:39:A:ILE:HD13	1:56:A:ASP:HB3	8	1.62
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE2	2	1.62
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE3	2	1.62
(1,1253)	1:69:A:VAL:HG21	1:71:A:HIS:H	16	1.61
(1,1253)	1:69:A:VAL:HG22	1:71:A:HIS:H	16	1.61
(1,1253)	1:69:A:VAL:HG23	1:71:A:HIS:H	16	1.61
(1,893)	1:35:A:THR:HG21	1:68:A:ASN:H	3	1.61
(1,893)	1:35:A:THR:HG22	1:68:A:ASN:H	3	1.61
(1,893)	1:35:A:THR:HG23	1:68:A:ASN:H	3	1.61
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	10	1.61
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	10	1.61
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	10	1.61
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD11	12	1.61
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD12	12	1.61
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD13	12	1.61
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD11	12	1.61
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD12	12	1.61
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD13	12	1.61
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD11	12	1.61
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD12	12	1.61
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD13	12	1.61
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG2	3	1.61
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG3	3	1.61
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG2	3	1.61
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG3	3	1.61
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	20	1.61
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	20	1.61
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	10	1.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	10	1.61
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	10	1.61
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	10	1.61
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	1	1.61
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	1	1.61
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	1	1.61
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	1	1.61
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB2	3	1.6
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB3	3	1.6
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB2	3	1.6
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB3	3	1.6
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB2	3	1.6
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB3	3	1.6
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	10	1.6
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	10	1.6
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	6	1.6
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	6	1.6
(1,642)	1:8:A:THR:HG21	1:10:A:HIS:H	12	1.6
(1,642)	1:8:A:THR:HG22	1:10:A:HIS:H	12	1.6
(1,642)	1:8:A:THR:HG23	1:10:A:HIS:H	12	1.6
(1,371)	1:6:A:THR:HG21	1:86:A:LYS:HB2	8	1.6
(1,371)	1:6:A:THR:HG22	1:86:A:LYS:HB2	8	1.6
(1,371)	1:6:A:THR:HG23	1:86:A:LYS:HB2	8	1.6
(1,250)	1:6:A:THR:HG21	1:86:A:LYS:HB3	9	1.6
(1,250)	1:6:A:THR:HG22	1:86:A:LYS:HB3	9	1.6
(1,250)	1:6:A:THR:HG23	1:86:A:LYS:HB3	9	1.6
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	10	1.6
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	10	1.6
(1,118)	1:37:A:ILE:HG12	1:74:A:ALA:HA	3	1.6
(1,118)	1:37:A:ILE:HG13	1:74:A:ALA:HA	3	1.6
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG21	6	1.6
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG22	6	1.6
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG23	6	1.6
(1,781)	1:21:A:ILE:HG21	1:75:A:VAL:H	13	1.59
(1,781)	1:21:A:ILE:HG22	1:75:A:VAL:H	13	1.59
(1,781)	1:21:A:ILE:HG23	1:75:A:VAL:H	13	1.59
(1,781)	1:21:A:ILE:HG21	1:75:A:VAL:H	19	1.59
(1,781)	1:21:A:ILE:HG22	1:75:A:VAL:H	19	1.59
(1,781)	1:21:A:ILE:HG23	1:75:A:VAL:H	19	1.59
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	3	1.59
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	3	1.59
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	3	1.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,445)	1:21:A:ILE:HD11	1:37:A:ILE:HB	3	1.59
(1,445)	1:21:A:ILE:HD12	1:37:A:ILE:HB	3	1.59
(1,445)	1:21:A:ILE:HD13	1:37:A:ILE:HB	3	1.59
(1,121)	1:21:A:ILE:HD11	1:74:A:ALA:HA	13	1.59
(1,121)	1:21:A:ILE:HD12	1:74:A:ALA:HA	13	1.59
(1,121)	1:21:A:ILE:HD13	1:74:A:ALA:HA	13	1.59
(1,1213)	1:60:A:MET:HE1	1:63:A:GLY:H	15	1.58
(1,1213)	1:60:A:MET:HE2	1:63:A:GLY:H	15	1.58
(1,1213)	1:60:A:MET:HE3	1:63:A:GLY:H	15	1.58
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	2	1.58
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	2	1.58
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	2	1.58
(1,783)	1:21:A:ILE:HD11	1:38:A:VAL:H	6	1.58
(1,783)	1:21:A:ILE:HD12	1:38:A:VAL:H	6	1.58
(1,783)	1:21:A:ILE:HD13	1:38:A:VAL:H	6	1.58
(1,427)	1:21:A:ILE:HG21	1:37:A:ILE:HB	17	1.58
(1,427)	1:21:A:ILE:HG22	1:37:A:ILE:HB	17	1.58
(1,427)	1:21:A:ILE:HG23	1:37:A:ILE:HB	17	1.58
(1,192)	1:8:A:THR:HG21	1:84:A:ASN:HB3	16	1.58
(1,192)	1:8:A:THR:HG22	1:84:A:ASN:HB3	16	1.58
(1,192)	1:8:A:THR:HG23	1:84:A:ASN:HB3	16	1.58
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE2	12	1.57
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE3	12	1.57
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	15	1.57
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	15	1.57
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	15	1.57
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	15	1.57
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	15	1.57
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	15	1.57
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	4	1.57
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	4	1.57
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	4	1.57
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG21	4	1.57
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG22	4	1.57
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG23	4	1.57
(1,921)	1:37:A:ILE:HG12	1:68:A:ASN:H	5	1.56
(1,921)	1:37:A:ILE:HG13	1:68:A:ASN:H	5	1.56
(1,529)	1:4:A:GLN:HA	1:89:A:ILE:HD11	14	1.56
(1,529)	1:4:A:GLN:HA	1:89:A:ILE:HD12	14	1.56
(1,529)	1:4:A:GLN:HA	1:89:A:ILE:HD13	14	1.56
(1,445)	1:21:A:ILE:HD11	1:37:A:ILE:HB	6	1.56
(1,445)	1:21:A:ILE:HD12	1:37:A:ILE:HB	6	1.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,445)	1:21:A:ILE:HD13	1:37:A:ILE:HB	6	1.56
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	5	1.56
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	5	1.56
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	1	1.56
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	1	1.56
(1,134)	1:35:A:THR:HG21	1:68:A:ASN:HA	17	1.56
(1,134)	1:35:A:THR:HG22	1:68:A:ASN:HA	17	1.56
(1,134)	1:35:A:THR:HG23	1:68:A:ASN:HA	17	1.56
(1,644)	1:8:A:THR:HG21	1:85:A:ALA:H	12	1.55
(1,644)	1:8:A:THR:HG22	1:85:A:ALA:H	12	1.55
(1,644)	1:8:A:THR:HG23	1:85:A:ALA:H	12	1.55
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG2	8	1.55
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG3	8	1.55
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG2	8	1.55
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG3	8	1.55
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	7	1.54
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	7	1.54
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	7	1.54
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	7	1.54
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	7	1.54
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	7	1.54
(1,1439)	1:89:A:ILE:HD11	1:91:A:ARG:H	14	1.54
(1,1439)	1:89:A:ILE:HD12	1:91:A:ARG:H	14	1.54
(1,1439)	1:89:A:ILE:HD13	1:91:A:ARG:H	14	1.54
(1,856)	1:25:A:ARG:HG2	1:70:A:GLU:H	8	1.54
(1,856)	1:25:A:ARG:HG3	1:70:A:GLU:H	8	1.54
(1,783)	1:21:A:ILE:HD11	1:38:A:VAL:H	13	1.54
(1,783)	1:21:A:ILE:HD12	1:38:A:VAL:H	13	1.54
(1,783)	1:21:A:ILE:HD13	1:38:A:VAL:H	13	1.54
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	2	1.54
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	2	1.54
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	2	1.54
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE2	1	1.54
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE3	1	1.54
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE2	6	1.54
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE3	6	1.54
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	13	1.54
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	13	1.54
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	13	1.54
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	13	1.54
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	10	1.53
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	10	1.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	14	1.53
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	14	1.53
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG21	12	1.53
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG22	12	1.53
(1,801)	1:23:A:GLY:H	1:37:A:ILE:HG23	12	1.53
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	16	1.53
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	16	1.53
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	16	1.53
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	16	1.53
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	16	1.53
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	16	1.53
(1,422)	1:69:A:VAL:HG22	1:73:A:PHE:HD1	5	1.53
(1,422)	1:69:A:VAL:HG22	1:73:A:PHE:HD2	5	1.53
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	1	1.52
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	1	1.52
(1,708)	1:12:A:ALA:HB1	1:16:A:GLY:H	14	1.52
(1,708)	1:12:A:ALA:HB2	1:16:A:GLY:H	14	1.52
(1,708)	1:12:A:ALA:HB3	1:16:A:GLY:H	14	1.52
(1,551)	1:1:A:ILE:HD11	1:2:A:TRP:H	20	1.52
(1,551)	1:1:A:ILE:HD12	1:2:A:TRP:H	20	1.52
(1,551)	1:1:A:ILE:HD13	1:2:A:TRP:H	20	1.52
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG2	16	1.52
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG3	16	1.52
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG2	18	1.51
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG3	18	1.51
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	1	1.51
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	1	1.51
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	1	1.51
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	1	1.51
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	1	1.51
(1,445)	1:21:A:ILE:HD11	1:37:A:ILE:HB	1	1.51
(1,445)	1:21:A:ILE:HD12	1:37:A:ILE:HB	1	1.51
(1,445)	1:21:A:ILE:HD13	1:37:A:ILE:HB	1	1.51
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG21	3	1.51
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG22	3	1.51
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG23	3	1.51
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG21	3	1.51
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG22	3	1.51
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG23	3	1.51
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	5	1.51
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	5	1.51
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	18	1.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	18	1.51
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	4	1.5
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	4	1.5
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	4	1.5
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	4	1.5
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	4	1.5
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	4	1.5
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	4	1.5
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	4	1.5
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	4	1.5
(1,893)	1:35:A:THR:HG21	1:68:A:ASN:H	15	1.5
(1,893)	1:35:A:THR:HG22	1:68:A:ASN:H	15	1.5
(1,893)	1:35:A:THR:HG23	1:68:A:ASN:H	15	1.5
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	16	1.5
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	16	1.5
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG21	11	1.5
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG22	11	1.5
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG23	11	1.5
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	10	1.49
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	10	1.49
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	10	1.49
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE2	18	1.48
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE3	18	1.48
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	9	1.48
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	9	1.48
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	3	1.48
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	3	1.48
(1,781)	1:21:A:ILE:HG21	1:75:A:VAL:H	8	1.48
(1,781)	1:21:A:ILE:HG22	1:75:A:VAL:H	8	1.48
(1,781)	1:21:A:ILE:HG23	1:75:A:VAL:H	8	1.48
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	20	1.48
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	20	1.48
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	20	1.48
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	12	1.48
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	12	1.48
(1,1270)	1:70:A:GLU:HG2	1:74:A:ALA:H	4	1.47
(1,1270)	1:70:A:GLU:HG3	1:74:A:ALA:H	4	1.47
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	3	1.47
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	3	1.47
(1,834)	1:39:A:ILE:HD11	1:53:A:GLN:H	11	1.47
(1,834)	1:39:A:ILE:HD12	1:53:A:GLN:H	11	1.47
(1,834)	1:39:A:ILE:HD13	1:53:A:GLN:H	11	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,422)	1:69:A:VAL:HG21	1:73:A:PHE:HD1	10	1.47
(1,422)	1:69:A:VAL:HG21	1:73:A:PHE:HD2	10	1.47
(1,422)	1:69:A:VAL:HG21	1:73:A:PHE:HD1	14	1.47
(1,422)	1:69:A:VAL:HG21	1:73:A:PHE:HD2	14	1.47
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG2	12	1.47
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG3	12	1.47
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG2	12	1.47
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG3	12	1.47
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG2	12	1.47
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG3	12	1.47
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD2	3	1.47
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD3	3	1.47
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	18	1.47
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	18	1.47
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	18	1.47
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	18	1.47
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	14	1.47
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	14	1.47
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	14	1.47
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	14	1.47
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	11	1.46
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	11	1.46
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	8	1.46
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	8	1.46
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	13	1.46
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	13	1.46
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	13	1.46
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	13	1.46
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	13	1.46
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	13	1.46
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	18	1.46
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	18	1.46
(1,219)	1:25:A:ARG:HG2	1:70:A:GLU:HG2	8	1.46
(1,219)	1:25:A:ARG:HG2	1:70:A:GLU:HG3	8	1.46
(1,219)	1:25:A:ARG:HG3	1:70:A:GLU:HG2	8	1.46
(1,219)	1:25:A:ARG:HG3	1:70:A:GLU:HG3	8	1.46
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	18	1.45
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	18	1.45
(1,920)	1:67:A:ASP:H	1:69:A:VAL:HG11	16	1.45
(1,920)	1:67:A:ASP:H	1:69:A:VAL:HG12	16	1.45
(1,920)	1:67:A:ASP:H	1:69:A:VAL:HG13	16	1.45
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	18	1.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	18	1.45
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	18	1.45
(1,551)	1:1:A:ILE:HD11	1:2:A:TRP:H	1	1.45
(1,551)	1:1:A:ILE:HD12	1:2:A:TRP:H	1	1.45
(1,551)	1:1:A:ILE:HD13	1:2:A:TRP:H	1	1.45
(1,32)	1:69:A:VAL:HG21	1:71:A:HIS:HA	16	1.45
(1,32)	1:69:A:VAL:HG22	1:71:A:HIS:HA	16	1.45
(1,32)	1:69:A:VAL:HG23	1:71:A:HIS:HA	16	1.45
(1,893)	1:35:A:THR:HG21	1:68:A:ASN:H	14	1.44
(1,893)	1:35:A:THR:HG22	1:68:A:ASN:H	14	1.44
(1,893)	1:35:A:THR:HG23	1:68:A:ASN:H	14	1.44
(1,860)	1:25:A:ARG:HD2	1:70:A:GLU:H	6	1.44
(1,860)	1:25:A:ARG:HD3	1:70:A:GLU:H	6	1.44
(1,817)	1:24:A:GLY:H	1:69:A:VAL:HG21	16	1.44
(1,817)	1:24:A:GLY:H	1:69:A:VAL:HG22	16	1.44
(1,817)	1:24:A:GLY:H	1:69:A:VAL:HG23	16	1.44
(1,551)	1:1:A:ILE:HD11	1:2:A:TRP:H	15	1.44
(1,551)	1:1:A:ILE:HD12	1:2:A:TRP:H	15	1.44
(1,551)	1:1:A:ILE:HD13	1:2:A:TRP:H	15	1.44
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG21	15	1.44
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG22	15	1.44
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG23	15	1.44
(1,1213)	1:60:A:MET:HE1	1:63:A:GLY:H	17	1.43
(1,1213)	1:60:A:MET:HE2	1:63:A:GLY:H	17	1.43
(1,1213)	1:60:A:MET:HE3	1:63:A:GLY:H	17	1.43
(1,923)	1:37:A:ILE:HG12	1:69:A:VAL:H	6	1.43
(1,923)	1:37:A:ILE:HG13	1:69:A:VAL:H	6	1.43
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG12	2	1.43
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG13	2	1.43
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	11	1.43
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	11	1.43
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	11	1.43
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	18	1.43
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	18	1.43
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	18	1.43
(1,383)	1:6:A:THR:HG21	1:60:A:MET:HB3	4	1.43
(1,383)	1:6:A:THR:HG22	1:60:A:MET:HB3	4	1.43
(1,383)	1:6:A:THR:HG23	1:60:A:MET:HB3	4	1.43
(1,1560)	1:25:A:ARG:HD2	1:26:A:ASP:HB2	7	1.42
(1,1560)	1:25:A:ARG:HD2	1:26:A:ASP:HB3	7	1.42
(1,1560)	1:25:A:ARG:HD3	1:26:A:ASP:HB2	7	1.42
(1,1560)	1:25:A:ARG:HD3	1:26:A:ASP:HB3	7	1.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,918)	1:66:A:MET:H	1:69:A:VAL:HG11	16	1.42
(1,918)	1:66:A:MET:H	1:69:A:VAL:HG12	16	1.42
(1,918)	1:66:A:MET:H	1:69:A:VAL:HG13	16	1.42
(1,493)	1:38:A:VAL:HA	1:39:A:ILE:HD11	5	1.42
(1,493)	1:38:A:VAL:HA	1:39:A:ILE:HD12	5	1.42
(1,493)	1:38:A:VAL:HA	1:39:A:ILE:HD13	5	1.42
(1,493)	1:38:A:VAL:HA	1:39:A:ILE:HD11	12	1.42
(1,493)	1:38:A:VAL:HA	1:39:A:ILE:HD12	12	1.42
(1,493)	1:38:A:VAL:HA	1:39:A:ILE:HD13	12	1.42
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD11	9	1.42
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD12	9	1.42
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD13	9	1.42
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE2	20	1.42
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE3	20	1.42
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE2	14	1.41
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE3	14	1.41
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	16	1.41
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	16	1.41
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	16	1.41
(1,551)	1:1:A:ILE:HD11	1:2:A:TRP:H	16	1.41
(1,551)	1:1:A:ILE:HD12	1:2:A:TRP:H	16	1.41
(1,551)	1:1:A:ILE:HD13	1:2:A:TRP:H	16	1.41
(1,463)	1:39:A:ILE:HD11	1:56:A:ASP:HB2	11	1.41
(1,463)	1:39:A:ILE:HD12	1:56:A:ASP:HB2	11	1.41
(1,463)	1:39:A:ILE:HD13	1:56:A:ASP:HB2	11	1.41
(1,371)	1:6:A:THR:HG21	1:86:A:LYS:HB2	5	1.41
(1,371)	1:6:A:THR:HG22	1:86:A:LYS:HB2	5	1.41
(1,371)	1:6:A:THR:HG23	1:86:A:LYS:HB2	5	1.41
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	13	1.4
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	13	1.4
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	6	1.4
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	6	1.4
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	6	1.4
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	6	1.4
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	6	1.4
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	6	1.4
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	4	1.4
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	4	1.4
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	4	1.4
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	4	1.4
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	6	1.4
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	6	1.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,129)	1:60:A:MET:HE1	1:62:A:ASN:HA	16	1.4
(1,129)	1:60:A:MET:HE2	1:62:A:ASN:HA	16	1.4
(1,129)	1:60:A:MET:HE3	1:62:A:ASN:HA	16	1.4
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	6	1.39
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	6	1.39
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	6	1.39
(1,928)	1:37:A:ILE:HD11	1:69:A:VAL:H	6	1.39
(1,928)	1:37:A:ILE:HD12	1:69:A:VAL:H	6	1.39
(1,928)	1:37:A:ILE:HD13	1:69:A:VAL:H	6	1.39
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	9	1.39
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	9	1.39
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	9	1.39
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG2	14	1.39
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG3	14	1.39
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG2	14	1.39
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG3	14	1.39
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG2	14	1.39
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG3	14	1.39
(1,371)	1:6:A:THR:HG21	1:86:A:LYS:HB2	12	1.39
(1,371)	1:6:A:THR:HG22	1:86:A:LYS:HB2	12	1.39
(1,371)	1:6:A:THR:HG23	1:86:A:LYS:HB2	12	1.39
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE2	9	1.39
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE3	9	1.39
(1,834)	1:39:A:ILE:HD11	1:53:A:GLN:H	15	1.38
(1,834)	1:39:A:ILE:HD12	1:53:A:GLN:H	15	1.38
(1,834)	1:39:A:ILE:HD13	1:53:A:GLN:H	15	1.38
(1,551)	1:1:A:ILE:HD11	1:2:A:TRP:H	14	1.38
(1,551)	1:1:A:ILE:HD12	1:2:A:TRP:H	14	1.38
(1,551)	1:1:A:ILE:HD13	1:2:A:TRP:H	14	1.38
(1,413)	1:21:A:ILE:HG21	1:38:A:VAL:H	17	1.38
(1,413)	1:21:A:ILE:HG22	1:38:A:VAL:H	17	1.38
(1,413)	1:21:A:ILE:HG23	1:38:A:VAL:H	17	1.38
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	3	1.37
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	3	1.37
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	5	1.37
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	5	1.37
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	20	1.37
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	20	1.37
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	20	1.37
(1,551)	1:1:A:ILE:HD11	1:2:A:TRP:H	4	1.37
(1,551)	1:1:A:ILE:HD12	1:2:A:TRP:H	4	1.37
(1,551)	1:1:A:ILE:HD13	1:2:A:TRP:H	4	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,551)	1:1:A:ILE:HD11	1:2:A:TRP:H	10	1.37
(1,551)	1:1:A:ILE:HD12	1:2:A:TRP:H	10	1.37
(1,551)	1:1:A:ILE:HD13	1:2:A:TRP:H	10	1.37
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB1	13	1.37
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB2	13	1.37
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB3	13	1.37
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB1	13	1.37
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB2	13	1.37
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB3	13	1.37
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB1	13	1.37
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB2	13	1.37
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB3	13	1.37
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG21	18	1.37
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG22	18	1.37
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG23	18	1.37
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG21	18	1.37
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG22	18	1.37
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG23	18	1.37
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD2	6	1.37
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD3	6	1.37
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	17	1.37
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	17	1.37
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE2	19	1.36
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE3	19	1.36
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG12	5	1.36
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG13	5	1.36
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	9	1.36
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	9	1.36
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	9	1.36
(1,526)	1:4:A:GLN:HA	1:88:A:THR:HG21	5	1.36
(1,526)	1:4:A:GLN:HA	1:88:A:THR:HG22	5	1.36
(1,526)	1:4:A:GLN:HA	1:88:A:THR:HG23	5	1.36
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	10	1.36
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	10	1.36
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	18	1.36
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	18	1.36
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	18	1.36
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD21	18	1.36
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD22	18	1.36
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD23	18	1.36
(1,929)	1:37:A:ILE:HD11	1:70:A:GLU:H	6	1.35
(1,929)	1:37:A:ILE:HD12	1:70:A:GLU:H	6	1.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,929)	1:37:A:ILE:HD13	1:70:A:GLU:H	6	1.35
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG21	16	1.35
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG22	16	1.35
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG23	16	1.35
(1,642)	1:8:A:THR:HG21	1:10:A:HIS:H	18	1.35
(1,642)	1:8:A:THR:HG22	1:10:A:HIS:H	18	1.35
(1,642)	1:8:A:THR:HG23	1:10:A:HIS:H	18	1.35
(1,447)	1:21:A:ILE:HD11	1:78:A:LEU:HG	1	1.35
(1,447)	1:21:A:ILE:HD12	1:78:A:LEU:HG	1	1.35
(1,447)	1:21:A:ILE:HD13	1:78:A:LEU:HG	1	1.35
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	6	1.35
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	6	1.35
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	6	1.35
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	6	1.35
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	6	1.35
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	6	1.35
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG21	15	1.35
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG22	15	1.35
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG23	15	1.35
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG21	15	1.35
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG22	15	1.35
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG23	15	1.35
(1,129)	1:60:A:MET:HE1	1:62:A:ASN:HA	4	1.35
(1,129)	1:60:A:MET:HE2	1:62:A:ASN:HA	4	1.35
(1,129)	1:60:A:MET:HE3	1:62:A:ASN:HA	4	1.35
(1,118)	1:37:A:ILE:HG12	1:74:A:ALA:HA	2	1.35
(1,118)	1:37:A:ILE:HG13	1:74:A:ALA:HA	2	1.35
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	2	1.35
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	2	1.35
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG2	20	1.35
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG3	20	1.35
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	19	1.34
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	19	1.34
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	19	1.34
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG2	6	1.34
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG3	6	1.34
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG2	6	1.34
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG3	6	1.34
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG2	6	1.34
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG3	6	1.34
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	20	1.34
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	20	1.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	20	1.34
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	20	1.34
(1,250)	1:6:A:THR:HG21	1:86:A:LYS:HB3	15	1.34
(1,250)	1:6:A:THR:HG22	1:86:A:LYS:HB3	15	1.34
(1,250)	1:6:A:THR:HG23	1:86:A:LYS:HB3	15	1.34
(1,192)	1:8:A:THR:HG21	1:84:A:ASN:HB3	3	1.34
(1,192)	1:8:A:THR:HG22	1:84:A:ASN:HB3	3	1.34
(1,192)	1:8:A:THR:HG23	1:84:A:ASN:HB3	3	1.34
(1,182)	1:39:A:ILE:HD11	1:89:A:ILE:HB	11	1.34
(1,182)	1:39:A:ILE:HD12	1:89:A:ILE:HB	11	1.34
(1,182)	1:39:A:ILE:HD13	1:89:A:ILE:HB	11	1.34
(1,182)	1:39:A:ILE:HD11	1:89:A:ILE:HB	15	1.34
(1,182)	1:39:A:ILE:HD12	1:89:A:ILE:HB	15	1.34
(1,182)	1:39:A:ILE:HD13	1:89:A:ILE:HB	15	1.34
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	5	1.34
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	5	1.34
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	7	1.33
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	7	1.33
(1,917)	1:37:A:ILE:HG12	1:66:A:MET:H	12	1.33
(1,917)	1:37:A:ILE:HG13	1:66:A:MET:H	12	1.33
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG12	12	1.33
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG13	12	1.33
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	4	1.33
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	4	1.33
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	4	1.33
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	4	1.33
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	4	1.33
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	4	1.33
(1,290)	1:44:A:LYS:HD2	1:49:A:GLU:HB3	8	1.33
(1,290)	1:44:A:LYS:HD3	1:49:A:GLU:HB3	8	1.33
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	11	1.33
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	11	1.33
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	15	1.33
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	15	1.33
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	18	1.33
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	18	1.33
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG21	9	1.33
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG22	9	1.33
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG23	9	1.33
(1,33)	1:37:A:ILE:HG21	1:71:A:HIS:HA	2	1.33
(1,33)	1:37:A:ILE:HG22	1:71:A:HIS:HA	2	1.33
(1,33)	1:37:A:ILE:HG23	1:71:A:HIS:HA	2	1.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	5	1.32
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	5	1.32
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG2	4	1.32
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG3	4	1.32
(1,893)	1:35:A:THR:HG21	1:68:A:ASN:H	12	1.32
(1,893)	1:35:A:THR:HG22	1:68:A:ASN:H	12	1.32
(1,893)	1:35:A:THR:HG23	1:68:A:ASN:H	12	1.32
(1,856)	1:25:A:ARG:HG2	1:70:A:GLU:H	7	1.32
(1,856)	1:25:A:ARG:HG3	1:70:A:GLU:H	7	1.32
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD11	15	1.32
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD12	15	1.32
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD13	15	1.32
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	14	1.32
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	14	1.32
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	14	1.32
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	19	1.32
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	19	1.32
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE2	7	1.32
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE3	7	1.32
(1,121)	1:21:A:ILE:HD11	1:74:A:ALA:HA	3	1.32
(1,121)	1:21:A:ILE:HD12	1:74:A:ALA:HA	3	1.32
(1,121)	1:21:A:ILE:HD13	1:74:A:ALA:HA	3	1.32
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG2	2	1.32
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG3	2	1.32
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD11	7	1.31
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD12	7	1.31
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD13	7	1.31
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD11	7	1.31
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD12	7	1.31
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD13	7	1.31
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE2	1	1.31
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE3	1	1.31
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	4	1.31
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	4	1.31
(1,1270)	1:70:A:GLU:HG2	1:74:A:ALA:H	5	1.31
(1,1270)	1:70:A:GLU:HG3	1:74:A:ALA:H	5	1.31
(1,1213)	1:60:A:MET:HE1	1:63:A:GLY:H	9	1.31
(1,1213)	1:60:A:MET:HE2	1:63:A:GLY:H	9	1.31
(1,1213)	1:60:A:MET:HE3	1:63:A:GLY:H	9	1.31
(1,1213)	1:60:A:MET:HE1	1:63:A:GLY:H	14	1.31
(1,1213)	1:60:A:MET:HE2	1:63:A:GLY:H	14	1.31
(1,1213)	1:60:A:MET:HE3	1:63:A:GLY:H	14	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,929)	1:37:A:ILE:HD11	1:70:A:GLU:H	4	1.31
(1,929)	1:37:A:ILE:HD12	1:70:A:GLU:H	4	1.31
(1,929)	1:37:A:ILE:HD13	1:70:A:GLU:H	4	1.31
(1,468)	1:21:A:ILE:HB	1:37:A:ILE:HD11	14	1.31
(1,468)	1:21:A:ILE:HB	1:37:A:ILE:HD12	14	1.31
(1,468)	1:21:A:ILE:HB	1:37:A:ILE:HD13	14	1.31
(1,422)	1:69:A:VAL:HG22	1:73:A:PHE:HD1	6	1.31
(1,422)	1:69:A:VAL:HG22	1:73:A:PHE:HD2	6	1.31
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	9	1.31
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	9	1.31
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	9	1.31
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	7	1.3
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	7	1.3
(1,928)	1:37:A:ILE:HD11	1:69:A:VAL:H	4	1.3
(1,928)	1:37:A:ILE:HD12	1:69:A:VAL:H	4	1.3
(1,928)	1:37:A:ILE:HD13	1:69:A:VAL:H	4	1.3
(1,923)	1:37:A:ILE:HG12	1:69:A:VAL:H	4	1.3
(1,923)	1:37:A:ILE:HG13	1:69:A:VAL:H	4	1.3
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	16	1.3
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	16	1.3
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	16	1.3
(1,506)	1:39:A:ILE:HD11	1:89:A:ILE:HA	11	1.3
(1,506)	1:39:A:ILE:HD12	1:89:A:ILE:HA	11	1.3
(1,506)	1:39:A:ILE:HD13	1:89:A:ILE:HA	11	1.3
(1,445)	1:21:A:ILE:HD11	1:37:A:ILE:HB	20	1.3
(1,445)	1:21:A:ILE:HD12	1:37:A:ILE:HB	20	1.3
(1,445)	1:21:A:ILE:HD13	1:37:A:ILE:HB	20	1.3
(1,121)	1:21:A:ILE:HD11	1:74:A:ALA:HA	1	1.3
(1,121)	1:21:A:ILE:HD12	1:74:A:ALA:HA	1	1.3
(1,121)	1:21:A:ILE:HD13	1:74:A:ALA:HA	1	1.3
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB2	16	1.29
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB3	16	1.29
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB2	16	1.29
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB3	16	1.29
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB2	16	1.29
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB3	16	1.29
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD11	10	1.29
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD12	10	1.29
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD13	10	1.29
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD11	10	1.29
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD12	10	1.29
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD13	10	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD11	10	1.29
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD12	10	1.29
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD13	10	1.29
(1,413)	1:21:A:ILE:HG21	1:38:A:VAL:H	7	1.29
(1,413)	1:21:A:ILE:HG22	1:38:A:VAL:H	7	1.29
(1,413)	1:21:A:ILE:HG23	1:38:A:VAL:H	7	1.29
(1,386)	1:61:A:VAL:HG11	1:87:A:ILE:HG12	8	1.29
(1,386)	1:61:A:VAL:HG11	1:87:A:ILE:HG13	8	1.29
(1,386)	1:61:A:VAL:HG12	1:87:A:ILE:HG12	8	1.29
(1,386)	1:61:A:VAL:HG12	1:87:A:ILE:HG13	8	1.29
(1,386)	1:61:A:VAL:HG13	1:87:A:ILE:HG12	8	1.29
(1,386)	1:61:A:VAL:HG13	1:87:A:ILE:HG13	8	1.29
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	13	1.29
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	13	1.29
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	12	1.29
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	12	1.29
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	12	1.29
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	12	1.29
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG2	11	1.29
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG3	11	1.29
(1,1270)	1:70:A:GLU:HG2	1:74:A:ALA:H	19	1.28
(1,1270)	1:70:A:GLU:HG3	1:74:A:ALA:H	19	1.28
(1,1213)	1:60:A:MET:HE1	1:63:A:GLY:H	11	1.28
(1,1213)	1:60:A:MET:HE2	1:63:A:GLY:H	11	1.28
(1,1213)	1:60:A:MET:HE3	1:63:A:GLY:H	11	1.28
(1,930)	1:37:A:ILE:HD11	1:71:A:HIS:H	14	1.28
(1,930)	1:37:A:ILE:HD12	1:71:A:HIS:H	14	1.28
(1,930)	1:37:A:ILE:HD13	1:71:A:HIS:H	14	1.28
(1,856)	1:25:A:ARG:HG2	1:70:A:GLU:H	20	1.28
(1,856)	1:25:A:ARG:HG3	1:70:A:GLU:H	20	1.28
(1,613)	1:6:A:THR:HG21	1:88:A:THR:H	4	1.28
(1,613)	1:6:A:THR:HG22	1:88:A:THR:H	4	1.28
(1,613)	1:6:A:THR:HG23	1:88:A:THR:H	4	1.28
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	18	1.28
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	18	1.28
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	18	1.28
(1,219)	1:25:A:ARG:HG2	1:70:A:GLU:HG2	7	1.28
(1,219)	1:25:A:ARG:HG2	1:70:A:GLU:HG3	7	1.28
(1,219)	1:25:A:ARG:HG3	1:70:A:GLU:HG2	7	1.28
(1,219)	1:25:A:ARG:HG3	1:70:A:GLU:HG3	7	1.28
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	20	1.27
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	20	1.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	20	1.27
(1,929)	1:37:A:ILE:HD11	1:70:A:GLU:H	2	1.27
(1,929)	1:37:A:ILE:HD12	1:70:A:GLU:H	2	1.27
(1,929)	1:37:A:ILE:HD13	1:70:A:GLU:H	2	1.27
(1,929)	1:37:A:ILE:HD11	1:70:A:GLU:H	12	1.27
(1,929)	1:37:A:ILE:HD12	1:70:A:GLU:H	12	1.27
(1,929)	1:37:A:ILE:HD13	1:70:A:GLU:H	12	1.27
(1,832)	1:25:A:ARG:H	1:27:A:ASN:HB2	7	1.27
(1,832)	1:25:A:ARG:H	1:27:A:ASN:HB3	7	1.27
(1,781)	1:21:A:ILE:HG21	1:75:A:VAL:H	3	1.27
(1,781)	1:21:A:ILE:HG22	1:75:A:VAL:H	3	1.27
(1,781)	1:21:A:ILE:HG23	1:75:A:VAL:H	3	1.27
(1,642)	1:8:A:THR:HG21	1:10:A:HIS:H	9	1.27
(1,642)	1:8:A:THR:HG22	1:10:A:HIS:H	9	1.27
(1,642)	1:8:A:THR:HG23	1:10:A:HIS:H	9	1.27
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG2	13	1.27
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG3	13	1.27
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	2	1.27
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	2	1.27
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG21	3	1.27
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG22	3	1.27
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG23	3	1.27
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG2	12	1.27
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG3	12	1.27
(1,1484)	1:60:A:MET:HE1	1:64:A:VAL:H	5	1.26
(1,1484)	1:60:A:MET:HE2	1:64:A:VAL:H	5	1.26
(1,1484)	1:60:A:MET:HE3	1:64:A:VAL:H	5	1.26
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	13	1.26
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	13	1.26
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	13	1.26
(1,290)	1:44:A:LYS:HD2	1:49:A:GLU:HB3	13	1.26
(1,290)	1:44:A:LYS:HD3	1:49:A:GLU:HB3	13	1.26
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD2	13	1.26
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD3	13	1.26
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	12	1.26
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	12	1.26
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	15	1.26
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	15	1.26
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	5	1.25
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	5	1.25
(1,1270)	1:70:A:GLU:HG2	1:74:A:ALA:H	18	1.25
(1,1270)	1:70:A:GLU:HG3	1:74:A:ALA:H	18	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG2	5	1.25
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG3	5	1.25
(1,927)	1:37:A:ILE:HD11	1:68:A:ASN:H	6	1.25
(1,927)	1:37:A:ILE:HD12	1:68:A:ASN:H	6	1.25
(1,927)	1:37:A:ILE:HD13	1:68:A:ASN:H	6	1.25
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD11	17	1.25
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD12	17	1.25
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD13	17	1.25
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD11	11	1.25
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD12	11	1.25
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD13	11	1.25
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG21	13	1.25
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG22	13	1.25
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG23	13	1.25
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG21	13	1.25
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG22	13	1.25
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG23	13	1.25
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG21	13	1.25
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG22	13	1.25
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG23	13	1.25
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE2	3	1.25
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE3	3	1.25
(1,58)	1:25:A:ARG:HD2	1:69:A:VAL:HA	20	1.25
(1,58)	1:25:A:ARG:HD3	1:69:A:VAL:HA	20	1.25
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	1	1.24
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	1	1.24
(1,893)	1:35:A:THR:HG21	1:68:A:ASN:H	7	1.24
(1,893)	1:35:A:THR:HG22	1:68:A:ASN:H	7	1.24
(1,893)	1:35:A:THR:HG23	1:68:A:ASN:H	7	1.24
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD11	1	1.24
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD12	1	1.24
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD13	1	1.24
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	2	1.24
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	2	1.24
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	2	1.24
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	2	1.24
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	2	1.24
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	2	1.24
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	13	1.24
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	13	1.24
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	13	1.24
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	13	1.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	13	1.24
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	13	1.24
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD2	9	1.24
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD3	9	1.24
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD2	9	1.24
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD3	9	1.24
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD2	9	1.24
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD3	9	1.24
(1,371)	1:6:A:THR:HG21	1:86:A:LYS:HB2	9	1.24
(1,371)	1:6:A:THR:HG22	1:86:A:LYS:HB2	9	1.24
(1,371)	1:6:A:THR:HG23	1:86:A:LYS:HB2	9	1.24
(1,118)	1:37:A:ILE:HG12	1:74:A:ALA:HA	4	1.24
(1,118)	1:37:A:ILE:HG13	1:74:A:ALA:HA	4	1.24
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG2	4	1.24
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG3	4	1.24
(1,1560)	1:25:A:ARG:HD2	1:26:A:ASP:HB2	12	1.23
(1,1560)	1:25:A:ARG:HD2	1:26:A:ASP:HB3	12	1.23
(1,1560)	1:25:A:ARG:HD3	1:26:A:ASP:HB2	12	1.23
(1,1560)	1:25:A:ARG:HD3	1:26:A:ASP:HB3	12	1.23
(1,1506)	1:7:A:VAL:HG11	1:87:A:ILE:HB	6	1.23
(1,1506)	1:7:A:VAL:HG12	1:87:A:ILE:HB	6	1.23
(1,1506)	1:7:A:VAL:HG13	1:87:A:ILE:HB	6	1.23
(1,1506)	1:7:A:VAL:HG21	1:87:A:ILE:HB	6	1.23
(1,1506)	1:7:A:VAL:HG22	1:87:A:ILE:HB	6	1.23
(1,1506)	1:7:A:VAL:HG23	1:87:A:ILE:HB	6	1.23
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	1	1.23
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	1	1.23
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	1	1.23
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	1	1.23
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	1	1.23
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	1	1.23
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	20	1.23
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	20	1.23
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	14	1.23
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	14	1.23
(1,551)	1:1:A:ILE:HD11	1:2:A:TRP:H	11	1.23
(1,551)	1:1:A:ILE:HD12	1:2:A:TRP:H	11	1.23
(1,551)	1:1:A:ILE:HD13	1:2:A:TRP:H	11	1.23
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	7	1.23
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	7	1.23
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	7	1.23
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	7	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	7	1.23
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	7	1.23
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG21	3	1.23
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG22	3	1.23
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG23	3	1.23
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG21	3	1.23
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG22	3	1.23
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG23	3	1.23
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG21	3	1.23
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG22	3	1.23
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG23	3	1.23
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	18	1.23
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	18	1.23
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	18	1.23
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	18	1.23
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	18	1.23
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	18	1.23
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE2	18	1.23
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE3	18	1.23
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD11	7	1.23
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD12	7	1.23
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD13	7	1.23
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG2	6	1.23
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG3	6	1.23
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	14	1.22
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	14	1.22
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	14	1.22
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	14	1.22
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	14	1.22
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	14	1.22
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	18	1.22
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	18	1.22
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	18	1.22
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG12	6	1.22
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG13	6	1.22
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG21	2	1.22
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG22	2	1.22
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG23	2	1.22
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD11	1	1.22
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD12	1	1.22
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD13	1	1.22
(1,506)	1:39:A:ILE:HD11	1:89:A:ILE:HA	15	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,506)	1:39:A:ILE:HD12	1:89:A:ILE:HA	15	1.22
(1,506)	1:39:A:ILE:HD13	1:89:A:ILE:HA	15	1.22
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	12	1.22
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	12	1.22
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	12	1.22
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	12	1.22
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	12	1.22
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	12	1.22
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	10	1.22
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	10	1.22
(1,250)	1:6:A:THR:HG21	1:86:A:LYS:HB3	20	1.22
(1,250)	1:6:A:THR:HG22	1:86:A:LYS:HB3	20	1.22
(1,250)	1:6:A:THR:HG23	1:86:A:LYS:HB3	20	1.22
(1,1270)	1:70:A:GLU:HG2	1:74:A:ALA:H	12	1.21
(1,1270)	1:70:A:GLU:HG3	1:74:A:ALA:H	12	1.21
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	9	1.21
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	9	1.21
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	9	1.21
(1,1213)	1:60:A:MET:HE1	1:63:A:GLY:H	3	1.21
(1,1213)	1:60:A:MET:HE2	1:63:A:GLY:H	3	1.21
(1,1213)	1:60:A:MET:HE3	1:63:A:GLY:H	3	1.21
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	14	1.21
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	14	1.21
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	14	1.21
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	18	1.21
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	18	1.21
(1,927)	1:37:A:ILE:HD11	1:68:A:ASN:H	4	1.21
(1,927)	1:37:A:ILE:HD12	1:68:A:ASN:H	4	1.21
(1,927)	1:37:A:ILE:HD13	1:68:A:ASN:H	4	1.21
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD11	14	1.21
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD12	14	1.21
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD13	14	1.21
(1,783)	1:21:A:ILE:HD11	1:38:A:VAL:H	8	1.21
(1,783)	1:21:A:ILE:HD12	1:38:A:VAL:H	8	1.21
(1,783)	1:21:A:ILE:HD13	1:38:A:VAL:H	8	1.21
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	7	1.21
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	7	1.21
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	7	1.21
(1,463)	1:39:A:ILE:HD11	1:56:A:ASP:HB2	15	1.21
(1,463)	1:39:A:ILE:HD12	1:56:A:ASP:HB2	15	1.21
(1,463)	1:39:A:ILE:HD13	1:56:A:ASP:HB2	15	1.21
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG21	13	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG22	13	1.21
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG23	13	1.21
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG21	13	1.21
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG22	13	1.21
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG23	13	1.21
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	5	1.21
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	5	1.21
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	16	1.21
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	16	1.21
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	16	1.21
(1,129)	1:60:A:MET:HE1	1:62:A:ASN:HA	2	1.21
(1,129)	1:60:A:MET:HE2	1:62:A:ASN:HA	2	1.21
(1,129)	1:60:A:MET:HE3	1:62:A:ASN:HA	2	1.21
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	10	1.21
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	10	1.21
(1,42)	1:37:A:ILE:HD11	1:71:A:HIS:HA	11	1.21
(1,42)	1:37:A:ILE:HD12	1:71:A:HIS:HA	11	1.21
(1,42)	1:37:A:ILE:HD13	1:71:A:HIS:HA	11	1.21
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	7	1.2
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	7	1.2
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	7	1.2
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	20	1.2
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	20	1.2
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	20	1.2
(1,923)	1:37:A:ILE:HG12	1:69:A:VAL:H	12	1.2
(1,923)	1:37:A:ILE:HG13	1:69:A:VAL:H	12	1.2
(1,461)	1:39:A:ILE:HD11	1:56:A:ASP:H	11	1.2
(1,461)	1:39:A:ILE:HD12	1:56:A:ASP:H	11	1.2
(1,461)	1:39:A:ILE:HD13	1:56:A:ASP:H	11	1.2
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB1	15	1.2
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB2	15	1.2
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB3	15	1.2
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB1	15	1.2
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB2	15	1.2
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB3	15	1.2
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB1	15	1.2
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB2	15	1.2
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB3	15	1.2
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	19	1.2
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	19	1.2
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	19	1.2
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	19	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	19	1.2
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	19	1.2
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG2	15	1.2
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG3	15	1.2
(1,1560)	1:25:A:ARG:HD2	1:26:A:ASP:HB2	20	1.19
(1,1560)	1:25:A:ARG:HD2	1:26:A:ASP:HB3	20	1.19
(1,1560)	1:25:A:ARG:HD3	1:26:A:ASP:HB2	20	1.19
(1,1560)	1:25:A:ARG:HD3	1:26:A:ASP:HB3	20	1.19
(1,1270)	1:70:A:GLU:HG2	1:74:A:ALA:H	13	1.19
(1,1270)	1:70:A:GLU:HG3	1:74:A:ALA:H	13	1.19
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	2	1.19
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	2	1.19
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	2	1.19
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	4	1.19
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	4	1.19
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	4	1.19
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	5	1.19
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	5	1.19
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	5	1.19
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	16	1.19
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	16	1.19
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	16	1.19
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	10	1.19
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	10	1.19
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	10	1.19
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	20	1.19
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	20	1.19
(1,781)	1:21:A:ILE:HG21	1:75:A:VAL:H	6	1.19
(1,781)	1:21:A:ILE:HG22	1:75:A:VAL:H	6	1.19
(1,781)	1:21:A:ILE:HG23	1:75:A:VAL:H	6	1.19
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD11	3	1.19
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD12	3	1.19
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD13	3	1.19
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG2	1	1.19
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG3	1	1.19
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG2	1	1.19
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG3	1	1.19
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG2	1	1.19
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG3	1	1.19
(1,422)	1:69:A:VAL:HG23	1:73:A:PHE:HD1	9	1.19
(1,422)	1:69:A:VAL:HG23	1:73:A:PHE:HD2	9	1.19
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG21	5	1.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG22	5	1.19
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG23	5	1.19
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG21	5	1.19
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG22	5	1.19
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG23	5	1.19
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG2	16	1.19
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG3	16	1.19
(1,121)	1:21:A:ILE:HD11	1:74:A:ALA:HA	15	1.19
(1,121)	1:21:A:ILE:HD12	1:74:A:ALA:HA	15	1.19
(1,121)	1:21:A:ILE:HD13	1:74:A:ALA:HA	15	1.19
(1,33)	1:37:A:ILE:HG21	1:71:A:HIS:HA	12	1.19
(1,33)	1:37:A:ILE:HG22	1:71:A:HIS:HA	12	1.19
(1,33)	1:37:A:ILE:HG23	1:71:A:HIS:HA	12	1.19
(1,1506)	1:7:A:VAL:HG11	1:87:A:ILE:HB	20	1.18
(1,1506)	1:7:A:VAL:HG12	1:87:A:ILE:HB	20	1.18
(1,1506)	1:7:A:VAL:HG13	1:87:A:ILE:HB	20	1.18
(1,1506)	1:7:A:VAL:HG21	1:87:A:ILE:HB	20	1.18
(1,1506)	1:7:A:VAL:HG22	1:87:A:ILE:HB	20	1.18
(1,1506)	1:7:A:VAL:HG23	1:87:A:ILE:HB	20	1.18
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	12	1.18
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	12	1.18
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	15	1.18
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	15	1.18
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	15	1.18
(1,783)	1:21:A:ILE:HD11	1:38:A:VAL:H	20	1.18
(1,783)	1:21:A:ILE:HD12	1:38:A:VAL:H	20	1.18
(1,783)	1:21:A:ILE:HD13	1:38:A:VAL:H	20	1.18
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD11	17	1.18
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD12	17	1.18
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD13	17	1.18
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	20	1.18
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	20	1.18
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	20	1.18
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	20	1.18
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	20	1.18
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	20	1.18
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	5	1.17
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	5	1.17
(1,1270)	1:70:A:GLU:HG2	1:74:A:ALA:H	6	1.17
(1,1270)	1:70:A:GLU:HG3	1:74:A:ALA:H	6	1.17
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	5	1.17
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	5	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	5	1.17
(1,783)	1:21:A:ILE:HD11	1:38:A:VAL:H	19	1.17
(1,783)	1:21:A:ILE:HD12	1:38:A:VAL:H	19	1.17
(1,783)	1:21:A:ILE:HD13	1:38:A:VAL:H	19	1.17
(1,447)	1:21:A:ILE:HD11	1:78:A:LEU:HG	18	1.17
(1,447)	1:21:A:ILE:HD12	1:78:A:LEU:HG	18	1.17
(1,447)	1:21:A:ILE:HD13	1:78:A:LEU:HG	18	1.17
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	8	1.17
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	8	1.17
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG2	13	1.17
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG3	13	1.17
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG2	13	1.17
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG3	13	1.17
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	18	1.17
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	18	1.17
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	17	1.17
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	17	1.17
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	17	1.17
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	17	1.17
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	10	1.17
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	10	1.17
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	10	1.17
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	10	1.17
(1,1624)	1:61:A:VAL:HG11	1:78:A:LEU:HA	10	1.16
(1,1624)	1:61:A:VAL:HG12	1:78:A:LEU:HA	10	1.16
(1,1624)	1:61:A:VAL:HG13	1:78:A:LEU:HA	10	1.16
(1,1624)	1:61:A:VAL:HG21	1:78:A:LEU:HA	10	1.16
(1,1624)	1:61:A:VAL:HG22	1:78:A:LEU:HA	10	1.16
(1,1624)	1:61:A:VAL:HG23	1:78:A:LEU:HA	10	1.16
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD11	17	1.16
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD12	17	1.16
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD13	17	1.16
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD11	17	1.16
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD12	17	1.16
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD13	17	1.16
(1,1549)	1:21:A:ILE:HG12	1:75:A:VAL:HB	19	1.16
(1,1549)	1:21:A:ILE:HG13	1:75:A:VAL:HB	19	1.16
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	10	1.16
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	10	1.16
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	10	1.16
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	10	1.16
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	10	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	10	1.16
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	3	1.16
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	3	1.16
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	8	1.16
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	8	1.16
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	8	1.16
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	17	1.16
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	17	1.16
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	17	1.16
(1,492)	1:19:A:ILE:HA	1:39:A:ILE:HG21	12	1.16
(1,492)	1:19:A:ILE:HA	1:39:A:ILE:HG22	12	1.16
(1,492)	1:19:A:ILE:HA	1:39:A:ILE:HG23	12	1.16
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	3	1.16
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	3	1.16
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG2	10	1.16
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG3	10	1.16
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	15	1.16
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	15	1.16
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	15	1.16
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	15	1.16
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	4	1.16
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	4	1.16
(1,129)	1:60:A:MET:HE1	1:62:A:ASN:HA	7	1.16
(1,129)	1:60:A:MET:HE2	1:62:A:ASN:HA	7	1.16
(1,129)	1:60:A:MET:HE3	1:62:A:ASN:HA	7	1.16
(1,118)	1:37:A:ILE:HG12	1:74:A:ALA:HA	12	1.16
(1,118)	1:37:A:ILE:HG13	1:74:A:ALA:HA	12	1.16
(1,1506)	1:7:A:VAL:HG11	1:87:A:ILE:HB	7	1.15
(1,1506)	1:7:A:VAL:HG12	1:87:A:ILE:HB	7	1.15
(1,1506)	1:7:A:VAL:HG13	1:87:A:ILE:HB	7	1.15
(1,1506)	1:7:A:VAL:HG21	1:87:A:ILE:HB	7	1.15
(1,1506)	1:7:A:VAL:HG22	1:87:A:ILE:HB	7	1.15
(1,1506)	1:7:A:VAL:HG23	1:87:A:ILE:HB	7	1.15
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE2	1	1.15
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE3	1	1.15
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	6	1.15
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	6	1.15
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	6	1.15
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	19	1.15
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	19	1.15
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	19	1.15
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	17	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	17	1.15
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	5	1.15
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	5	1.15
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	13	1.15
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	13	1.15
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	13	1.15
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	9	1.15
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	9	1.15
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	19	1.15
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	19	1.15
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	19	1.15
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	19	1.15
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG21	5	1.15
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG22	5	1.15
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG23	5	1.15
(1,1506)	1:7:A:VAL:HG11	1:87:A:ILE:HB	13	1.14
(1,1506)	1:7:A:VAL:HG12	1:87:A:ILE:HB	13	1.14
(1,1506)	1:7:A:VAL:HG13	1:87:A:ILE:HB	13	1.14
(1,1506)	1:7:A:VAL:HG21	1:87:A:ILE:HB	13	1.14
(1,1506)	1:7:A:VAL:HG22	1:87:A:ILE:HB	13	1.14
(1,1506)	1:7:A:VAL:HG23	1:87:A:ILE:HB	13	1.14
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	2	1.14
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	2	1.14
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	10	1.14
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	10	1.14
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	10	1.14
(1,834)	1:39:A:ILE:HD11	1:53:A:GLN:H	12	1.14
(1,834)	1:39:A:ILE:HD12	1:53:A:GLN:H	12	1.14
(1,834)	1:39:A:ILE:HD13	1:53:A:GLN:H	12	1.14
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	11	1.14
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	11	1.14
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	11	1.14
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	11	1.14
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	11	1.14
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	11	1.14
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	13	1.14
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	13	1.14
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	15	1.14
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	15	1.14
(1,219)	1:25:A:ARG:HG2	1:70:A:GLU:HG2	4	1.14
(1,219)	1:25:A:ARG:HG2	1:70:A:GLU:HG3	4	1.14
(1,219)	1:25:A:ARG:HG3	1:70:A:GLU:HG2	4	1.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:25:A:ARG:HG3	1:70:A:GLU:HG3	4	1.14
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	12	1.13
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	12	1.13
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	12	1.13
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	12	1.13
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	12	1.13
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	12	1.13
(1,1484)	1:60:A:MET:HE1	1:64:A:VAL:H	11	1.13
(1,1484)	1:60:A:MET:HE2	1:64:A:VAL:H	11	1.13
(1,1484)	1:60:A:MET:HE3	1:64:A:VAL:H	11	1.13
(1,1484)	1:60:A:MET:HE1	1:64:A:VAL:H	17	1.13
(1,1484)	1:60:A:MET:HE2	1:64:A:VAL:H	17	1.13
(1,1484)	1:60:A:MET:HE3	1:64:A:VAL:H	17	1.13
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	15	1.13
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	15	1.13
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	12	1.13
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	12	1.13
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	12	1.13
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	12	1.13
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	12	1.13
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	12	1.13
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	20	1.13
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	20	1.13
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	15	1.13
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	15	1.13
(1,923)	1:37:A:ILE:HG12	1:69:A:VAL:H	2	1.13
(1,923)	1:37:A:ILE:HG13	1:69:A:VAL:H	2	1.13
(1,893)	1:35:A:THR:HG21	1:68:A:ASN:H	8	1.13
(1,893)	1:35:A:THR:HG22	1:68:A:ASN:H	8	1.13
(1,893)	1:35:A:THR:HG23	1:68:A:ASN:H	8	1.13
(1,447)	1:21:A:ILE:HD11	1:78:A:LEU:HG	5	1.13
(1,447)	1:21:A:ILE:HD12	1:78:A:LEU:HG	5	1.13
(1,447)	1:21:A:ILE:HD13	1:78:A:LEU:HG	5	1.13
(1,422)	1:69:A:VAL:HG22	1:73:A:PHE:HD1	12	1.13
(1,422)	1:69:A:VAL:HG22	1:73:A:PHE:HD2	12	1.13
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	6	1.13
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	6	1.13
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	6	1.13
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	6	1.13
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	4	1.13
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	4	1.13
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	19	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	19	1.13
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE2	2	1.12
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE3	2	1.12
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG2	5	1.12
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG3	5	1.12
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	18	1.12
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	18	1.12
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	3	1.12
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	3	1.12
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD11	8	1.12
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD12	8	1.12
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD13	8	1.12
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG2	3	1.12
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG3	3	1.12
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG21	12	1.12
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG22	12	1.12
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG23	12	1.12
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG2	11	1.12
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG3	11	1.12
(1,290)	1:44:A:LYS:HD2	1:49:A:GLU:HB3	2	1.12
(1,290)	1:44:A:LYS:HD3	1:49:A:GLU:HB3	2	1.12
(1,290)	1:44:A:LYS:HD2	1:49:A:GLU:HB3	17	1.12
(1,290)	1:44:A:LYS:HD3	1:49:A:GLU:HB3	17	1.12
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	20	1.12
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	20	1.12
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	6	1.11
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	6	1.11
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	6	1.11
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	20	1.11
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	20	1.11
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	20	1.11
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	20	1.11
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	20	1.11
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	20	1.11
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG21	4	1.11
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG22	4	1.11
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG23	4	1.11
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG21	4	1.11
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG22	4	1.11
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG23	4	1.11
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG21	4	1.11
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG22	4	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG23	4	1.11
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	5	1.11
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	5	1.11
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	5	1.11
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	5	1.11
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	5	1.11
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	5	1.11
(1,422)	1:69:A:VAL:HG22	1:73:A:PHE:HD1	16	1.11
(1,422)	1:69:A:VAL:HG22	1:73:A:PHE:HD2	16	1.11
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	12	1.11
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	12	1.11
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	12	1.11
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	12	1.11
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	12	1.11
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	12	1.11
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	12	1.11
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	12	1.11
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	12	1.11
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG2	3	1.11
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG3	3	1.11
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG2	3	1.11
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG3	3	1.11
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG2	3	1.11
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG3	3	1.11
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD2	8	1.11
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD3	8	1.11
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD2	8	1.11
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD3	8	1.11
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD2	8	1.11
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD3	8	1.11
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG2	15	1.11
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG3	15	1.11
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	8	1.11
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	8	1.11
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE2	2	1.11
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE3	2	1.11
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE2	16	1.11
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE3	16	1.11
(1,118)	1:37:A:ILE:HG12	1:74:A:ALA:HA	17	1.11
(1,118)	1:37:A:ILE:HG13	1:74:A:ALA:HA	17	1.11
(1,1521)	1:11:A:ARG:HD2	1:79:A:ARG:H	8	1.1
(1,1521)	1:11:A:ARG:HD3	1:79:A:ARG:H	8	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	11	1.1
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	11	1.1
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	11	1.1
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	17	1.1
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	17	1.1
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	17	1.1
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD11	8	1.1
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD12	8	1.1
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD13	8	1.1
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD11	14	1.1
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD12	14	1.1
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD13	14	1.1
(1,422)	1:69:A:VAL:HG23	1:73:A:PHE:HD1	11	1.1
(1,422)	1:69:A:VAL:HG23	1:73:A:PHE:HD2	11	1.1
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	1	1.1
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	1	1.1
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG21	13	1.1
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG22	13	1.1
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG23	13	1.1
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG2	13	1.1
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG3	13	1.1
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	5	1.09
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	5	1.09
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	5	1.09
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	5	1.09
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	5	1.09
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	5	1.09
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE2	5	1.09
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE3	5	1.09
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	13	1.09
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	13	1.09
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	13	1.09
(1,1270)	1:70:A:GLU:HG2	1:74:A:ALA:H	15	1.09
(1,1270)	1:70:A:GLU:HG3	1:74:A:ALA:H	15	1.09
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	9	1.09
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	9	1.09
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	9	1.09
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	15	1.09
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	15	1.09
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	15	1.09
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	15	1.09
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	15	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	15	1.09
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG2	18	1.09
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG3	18	1.09
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG2	19	1.09
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG3	19	1.09
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD2	2	1.09
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD3	2	1.09
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG21	15	1.09
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG22	15	1.09
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG23	15	1.09
(1,1506)	1:7:A:VAL:HG11	1:87:A:ILE:HB	10	1.08
(1,1506)	1:7:A:VAL:HG12	1:87:A:ILE:HB	10	1.08
(1,1506)	1:7:A:VAL:HG13	1:87:A:ILE:HB	10	1.08
(1,1506)	1:7:A:VAL:HG21	1:87:A:ILE:HB	10	1.08
(1,1506)	1:7:A:VAL:HG22	1:87:A:ILE:HB	10	1.08
(1,1506)	1:7:A:VAL:HG23	1:87:A:ILE:HB	10	1.08
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE2	2	1.08
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE3	2	1.08
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD11	3	1.08
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD12	3	1.08
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD13	3	1.08
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD11	17	1.08
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD12	17	1.08
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD13	17	1.08
(1,1213)	1:60:A:MET:HE1	1:63:A:GLY:H	8	1.08
(1,1213)	1:60:A:MET:HE2	1:63:A:GLY:H	8	1.08
(1,1213)	1:60:A:MET:HE3	1:63:A:GLY:H	8	1.08
(1,832)	1:25:A:ARG:H	1:27:A:ASN:HB2	20	1.08
(1,832)	1:25:A:ARG:H	1:27:A:ASN:HB3	20	1.08
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE2	16	1.08
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE3	16	1.08
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD11	3	1.08
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD12	3	1.08
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD13	3	1.08
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD11	9	1.08
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD12	9	1.08
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD13	9	1.08
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD11	20	1.08
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD12	20	1.08
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD13	20	1.08
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD11	20	1.08
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD12	20	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD13	20	1.08
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD11	20	1.08
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD12	20	1.08
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD13	20	1.08
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG2	12	1.08
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG3	12	1.08
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG2	12	1.08
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG3	12	1.08
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG2	12	1.08
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG3	12	1.08
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG2	17	1.08
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG3	17	1.08
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG2	17	1.08
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG3	17	1.08
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG2	17	1.08
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG3	17	1.08
(1,371)	1:6:A:THR:HG21	1:86:A:LYS:HB2	15	1.08
(1,371)	1:6:A:THR:HG22	1:86:A:LYS:HB2	15	1.08
(1,371)	1:6:A:THR:HG23	1:86:A:LYS:HB2	15	1.08
(1,290)	1:44:A:LYS:HD2	1:49:A:GLU:HB3	7	1.08
(1,290)	1:44:A:LYS:HD3	1:49:A:GLU:HB3	7	1.08
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG21	18	1.08
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG22	18	1.08
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG23	18	1.08
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG2	18	1.08
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG3	18	1.08
(1,1549)	1:21:A:ILE:HG12	1:75:A:VAL:HB	15	1.07
(1,1549)	1:21:A:ILE:HG13	1:75:A:VAL:HB	15	1.07
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	14	1.07
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	14	1.07
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	14	1.07
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD11	18	1.07
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD12	18	1.07
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD13	18	1.07
(1,461)	1:39:A:ILE:HD11	1:56:A:ASP:H	15	1.07
(1,461)	1:39:A:ILE:HD12	1:56:A:ASP:H	15	1.07
(1,461)	1:39:A:ILE:HD13	1:56:A:ASP:H	15	1.07
(1,367)	1:4:A:GLN:HG3	1:88:A:THR:HG21	5	1.07
(1,367)	1:4:A:GLN:HG3	1:88:A:THR:HG22	5	1.07
(1,367)	1:4:A:GLN:HG3	1:88:A:THR:HG23	5	1.07
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	16	1.07
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	16	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	20	1.07
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	20	1.07
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD2	12	1.07
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD3	12	1.07
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	11	1.07
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	11	1.07
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG2	1	1.07
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG3	1	1.07
(1,1445)	1:90:A:ARG:H	1:91:A:ARG:HG2	10	1.06
(1,1445)	1:90:A:ARG:H	1:91:A:ARG:HG3	10	1.06
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	1	1.06
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	1	1.06
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	1	1.06
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	12	1.06
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	12	1.06
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	12	1.06
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	13	1.06
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	13	1.06
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	13	1.06
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	13	1.06
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	13	1.06
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	13	1.06
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	13	1.06
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	13	1.06
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	13	1.06
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG2	2	1.06
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG3	2	1.06
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG2	2	1.06
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG3	2	1.06
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	8	1.06
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	8	1.06
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	9	1.06
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	9	1.06
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	9	1.06
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	9	1.06
(1,1564)	1:34:A:GLU:HG2	1:36:A:SER:H	13	1.05
(1,1564)	1:34:A:GLU:HG3	1:36:A:SER:H	13	1.05
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	16	1.05
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	16	1.05
(1,834)	1:39:A:ILE:HD11	1:53:A:GLN:H	8	1.05
(1,834)	1:39:A:ILE:HD12	1:53:A:GLN:H	8	1.05
(1,834)	1:39:A:ILE:HD13	1:53:A:GLN:H	8	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,781)	1:21:A:ILE:HG21	1:75:A:VAL:H	4	1.05
(1,781)	1:21:A:ILE:HG22	1:75:A:VAL:H	4	1.05
(1,781)	1:21:A:ILE:HG23	1:75:A:VAL:H	4	1.05
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	11	1.05
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	11	1.05
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	11	1.05
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD2	5	1.05
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD3	5	1.05
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD2	5	1.05
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD3	5	1.05
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD2	5	1.05
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD3	5	1.05
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	11	1.05
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	11	1.05
(1,290)	1:44:A:LYS:HD2	1:49:A:GLU:HB3	3	1.05
(1,290)	1:44:A:LYS:HD3	1:49:A:GLU:HB3	3	1.05
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	17	1.05
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	17	1.05
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	8	1.04
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	8	1.04
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	8	1.04
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	8	1.04
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	8	1.04
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	8	1.04
(1,1445)	1:90:A:ARG:H	1:91:A:ARG:HG2	20	1.04
(1,1445)	1:90:A:ARG:H	1:91:A:ARG:HG3	20	1.04
(1,937)	1:39:A:ILE:HD11	1:58:A:VAL:H	11	1.04
(1,937)	1:39:A:ILE:HD12	1:58:A:VAL:H	11	1.04
(1,937)	1:39:A:ILE:HD13	1:58:A:VAL:H	11	1.04
(1,641)	1:8:A:THR:HG21	1:9:A:LEU:H	3	1.04
(1,641)	1:8:A:THR:HG22	1:9:A:LEU:H	3	1.04
(1,641)	1:8:A:THR:HG23	1:9:A:LEU:H	3	1.04
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD11	9	1.04
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD12	9	1.04
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD13	9	1.04
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	13	1.04
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	13	1.04
(1,178)	1:79:A:ARG:HD2	1:80:A:LYS:HA	9	1.04
(1,178)	1:79:A:ARG:HD3	1:80:A:LYS:HA	9	1.04
(1,147)	1:39:A:ILE:HD11	1:52:A:LEU:HA	12	1.04
(1,147)	1:39:A:ILE:HD12	1:52:A:LEU:HA	12	1.04
(1,147)	1:39:A:ILE:HD13	1:52:A:LEU:HA	12	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	18	1.04
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	18	1.04
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD21	17	1.04
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD22	17	1.04
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD23	17	1.04
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	3	1.03
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	3	1.03
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	3	1.03
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	3	1.03
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	3	1.03
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	3	1.03
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	9	1.03
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	9	1.03
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	9	1.03
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	9	1.03
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	9	1.03
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	9	1.03
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	17	1.03
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	17	1.03
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	17	1.03
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	17	1.03
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	17	1.03
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	17	1.03
(1,1433)	1:88:A:THR:HG21	1:89:A:ILE:H	5	1.03
(1,1433)	1:88:A:THR:HG22	1:89:A:ILE:H	5	1.03
(1,1433)	1:88:A:THR:HG23	1:89:A:ILE:H	5	1.03
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD11	1	1.03
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD12	1	1.03
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD13	1	1.03
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	14	1.03
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	14	1.03
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	18	1.03
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	18	1.03
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	18	1.03
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	13	1.03
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	13	1.03
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	13	1.03
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	4	1.03
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	4	1.03
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	9	1.03
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	9	1.03
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD11	18	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD12	18	1.03
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD13	18	1.03
(1,613)	1:6:A:THR:HG21	1:88:A:THR:H	15	1.03
(1,613)	1:6:A:THR:HG22	1:88:A:THR:H	15	1.03
(1,613)	1:6:A:THR:HG23	1:88:A:THR:H	15	1.03
(1,250)	1:6:A:THR:HG21	1:86:A:LYS:HB3	2	1.03
(1,250)	1:6:A:THR:HG22	1:86:A:LYS:HB3	2	1.03
(1,250)	1:6:A:THR:HG23	1:86:A:LYS:HB3	2	1.03
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	19	1.03
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	19	1.03
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	10	1.02
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	10	1.02
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	10	1.02
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	10	1.02
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	10	1.02
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	10	1.02
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	6	1.02
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	6	1.02
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	6	1.02
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	6	1.02
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	6	1.02
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	6	1.02
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	3	1.02
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	3	1.02
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	3	1.02
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	18	1.02
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	18	1.02
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	18	1.02
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	10	1.02
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	10	1.02
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	10	1.02
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD11	11	1.02
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD12	11	1.02
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD13	11	1.02
(1,781)	1:21:A:ILE:HG21	1:75:A:VAL:H	9	1.02
(1,781)	1:21:A:ILE:HG22	1:75:A:VAL:H	9	1.02
(1,781)	1:21:A:ILE:HG23	1:75:A:VAL:H	9	1.02
(1,644)	1:8:A:THR:HG21	1:85:A:ALA:H	18	1.02
(1,644)	1:8:A:THR:HG22	1:85:A:ALA:H	18	1.02
(1,644)	1:8:A:THR:HG23	1:85:A:ALA:H	18	1.02
(1,641)	1:8:A:THR:HG21	1:9:A:LEU:H	15	1.02
(1,641)	1:8:A:THR:HG22	1:9:A:LEU:H	15	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,641)	1:8:A:THR:HG23	1:9:A:LEU:H	15	1.02
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG2	5	1.02
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG3	5	1.02
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG2	14	1.02
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG3	14	1.02
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG2	18	1.02
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG3	18	1.02
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	6	1.02
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	6	1.02
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	19	1.02
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	19	1.02
(1,250)	1:6:A:THR:HG21	1:86:A:LYS:HB3	6	1.02
(1,250)	1:6:A:THR:HG22	1:86:A:LYS:HB3	6	1.02
(1,250)	1:6:A:THR:HG23	1:86:A:LYS:HB3	6	1.02
(1,250)	1:6:A:THR:HG21	1:86:A:LYS:HB3	7	1.02
(1,250)	1:6:A:THR:HG22	1:86:A:LYS:HB3	7	1.02
(1,250)	1:6:A:THR:HG23	1:86:A:LYS:HB3	7	1.02
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	3	1.02
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	3	1.02
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	13	1.01
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	13	1.01
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	13	1.01
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	13	1.01
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	13	1.01
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	13	1.01
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE2	3	1.01
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE3	3	1.01
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE2	5	1.01
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE3	5	1.01
(1,1484)	1:60:A:MET:HE1	1:64:A:VAL:H	13	1.01
(1,1484)	1:60:A:MET:HE2	1:64:A:VAL:H	13	1.01
(1,1484)	1:60:A:MET:HE3	1:64:A:VAL:H	13	1.01
(1,1223)	1:64:A:VAL:HG21	1:66:A:MET:H	13	1.01
(1,1223)	1:64:A:VAL:HG22	1:66:A:MET:H	13	1.01
(1,1223)	1:64:A:VAL:HG23	1:66:A:MET:H	13	1.01
(1,893)	1:35:A:THR:HG21	1:68:A:ASN:H	19	1.01
(1,893)	1:35:A:THR:HG22	1:68:A:ASN:H	19	1.01
(1,893)	1:35:A:THR:HG23	1:68:A:ASN:H	19	1.01
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG2	18	1.01
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG3	18	1.01
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG2	18	1.01
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG3	18	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG2	18	1.01
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG3	18	1.01
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG21	8	1.01
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG22	8	1.01
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG23	8	1.01
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG21	8	1.01
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG22	8	1.01
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG23	8	1.01
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG21	8	1.01
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG22	8	1.01
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG23	8	1.01
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	17	1.01
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	17	1.01
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	17	1.01
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	17	1.01
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	17	1.01
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	17	1.01
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	17	1.01
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	17	1.01
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	17	1.01
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG2	8	1.01
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG3	8	1.01
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG2	8	1.01
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG3	8	1.01
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG2	8	1.01
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG3	8	1.01
(1,219)	1:25:A:ARG:HG2	1:70:A:GLU:HG2	13	1.01
(1,219)	1:25:A:ARG:HG2	1:70:A:GLU:HG3	13	1.01
(1,219)	1:25:A:ARG:HG3	1:70:A:GLU:HG2	13	1.01
(1,219)	1:25:A:ARG:HG3	1:70:A:GLU:HG3	13	1.01
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	2	1.0
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	2	1.0
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	2	1.0
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	2	1.0
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	2	1.0
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	2	1.0
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	6	1.0
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	6	1.0
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	6	1.0
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	6	1.0
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	6	1.0
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	6	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1506)	1:7:A:VAL:HG11	1:87:A:ILE:HB	2	1.0
(1,1506)	1:7:A:VAL:HG12	1:87:A:ILE:HB	2	1.0
(1,1506)	1:7:A:VAL:HG13	1:87:A:ILE:HB	2	1.0
(1,1506)	1:7:A:VAL:HG21	1:87:A:ILE:HB	2	1.0
(1,1506)	1:7:A:VAL:HG22	1:87:A:ILE:HB	2	1.0
(1,1506)	1:7:A:VAL:HG23	1:87:A:ILE:HB	2	1.0
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	18	1.0
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	18	1.0
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	18	1.0
(1,927)	1:37:A:ILE:HD11	1:68:A:ASN:H	2	1.0
(1,927)	1:37:A:ILE:HD12	1:68:A:ASN:H	2	1.0
(1,927)	1:37:A:ILE:HD13	1:68:A:ASN:H	2	1.0
(1,834)	1:39:A:ILE:HD11	1:53:A:GLN:H	6	1.0
(1,834)	1:39:A:ILE:HD12	1:53:A:GLN:H	6	1.0
(1,834)	1:39:A:ILE:HD13	1:53:A:GLN:H	6	1.0
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD11	18	1.0
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD12	18	1.0
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD13	18	1.0
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD11	11	1.0
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD12	11	1.0
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD13	11	1.0
(1,641)	1:8:A:THR:HG21	1:9:A:LEU:H	14	1.0
(1,641)	1:8:A:THR:HG22	1:9:A:LEU:H	14	1.0
(1,641)	1:8:A:THR:HG23	1:9:A:LEU:H	14	1.0
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD11	1	1.0
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD12	1	1.0
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD13	1	1.0
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	18	1.0
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	18	1.0
(1,219)	1:25:A:ARG:HG2	1:70:A:GLU:HG2	20	1.0
(1,219)	1:25:A:ARG:HG2	1:70:A:GLU:HG3	20	1.0
(1,219)	1:25:A:ARG:HG3	1:70:A:GLU:HG2	20	1.0
(1,219)	1:25:A:ARG:HG3	1:70:A:GLU:HG3	20	1.0
(1,208)	1:39:A:ILE:HD11	1:56:A:ASP:HB3	16	1.0
(1,208)	1:39:A:ILE:HD12	1:56:A:ASP:HB3	16	1.0
(1,208)	1:39:A:ILE:HD13	1:56:A:ASP:HB3	16	1.0
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG2	19	1.0
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG3	19	1.0
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB2	4	0.99
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB3	4	0.99
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB2	4	0.99
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB3	4	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB2	4	0.99
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB3	4	0.99
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE2	18	0.99
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE3	18	0.99
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD11	15	0.99
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD12	15	0.99
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD13	15	0.99
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	8	0.99
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	8	0.99
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	17	0.99
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	17	0.99
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	17	0.99
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	11	0.99
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	11	0.99
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	11	0.99
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	8	0.99
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	8	0.99
(1,917)	1:37:A:ILE:HG12	1:66:A:MET:H	18	0.99
(1,917)	1:37:A:ILE:HG13	1:66:A:MET:H	18	0.99
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD11	15	0.99
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD12	15	0.99
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD13	15	0.99
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD11	15	0.99
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD12	15	0.99
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD13	15	0.99
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD11	3	0.99
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD12	3	0.99
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD13	3	0.99
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB1	3	0.99
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB2	3	0.99
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB3	3	0.99
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB1	3	0.99
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB2	3	0.99
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB3	3	0.99
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB1	3	0.99
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB2	3	0.99
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB3	3	0.99
(1,371)	1:6:A:THR:HG21	1:86:A:LYS:HB2	20	0.99
(1,371)	1:6:A:THR:HG22	1:86:A:LYS:HB2	20	0.99
(1,371)	1:6:A:THR:HG23	1:86:A:LYS:HB2	20	0.99
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	17	0.99
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	17	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG2	4	0.99
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG3	4	0.99
(1,273)	1:4:A:GLN:HB2	1:88:A:THR:HG21	5	0.99
(1,273)	1:4:A:GLN:HB2	1:88:A:THR:HG22	5	0.99
(1,273)	1:4:A:GLN:HB2	1:88:A:THR:HG23	5	0.99
(1,273)	1:4:A:GLN:HB3	1:88:A:THR:HG21	5	0.99
(1,273)	1:4:A:GLN:HB3	1:88:A:THR:HG22	5	0.99
(1,273)	1:4:A:GLN:HB3	1:88:A:THR:HG23	5	0.99
(1,250)	1:6:A:THR:HG21	1:86:A:LYS:HB3	4	0.99
(1,250)	1:6:A:THR:HG22	1:86:A:LYS:HB3	4	0.99
(1,250)	1:6:A:THR:HG23	1:86:A:LYS:HB3	4	0.99
(1,42)	1:37:A:ILE:HD11	1:71:A:HIS:HA	13	0.99
(1,42)	1:37:A:ILE:HD12	1:71:A:HIS:HA	13	0.99
(1,42)	1:37:A:ILE:HD13	1:71:A:HIS:HA	13	0.99
(1,1564)	1:34:A:GLU:HG2	1:36:A:SER:H	4	0.98
(1,1564)	1:34:A:GLU:HG3	1:36:A:SER:H	4	0.98
(1,1484)	1:60:A:MET:HE1	1:64:A:VAL:H	9	0.98
(1,1484)	1:60:A:MET:HE2	1:64:A:VAL:H	9	0.98
(1,1484)	1:60:A:MET:HE3	1:64:A:VAL:H	9	0.98
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	10	0.98
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	10	0.98
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	8	0.98
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	8	0.98
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	8	0.98
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG2	14	0.98
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG3	14	0.98
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	7	0.98
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	7	0.98
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	1	0.98
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	1	0.98
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	1	0.98
(1,834)	1:39:A:ILE:HD11	1:53:A:GLN:H	3	0.98
(1,834)	1:39:A:ILE:HD12	1:53:A:GLN:H	3	0.98
(1,834)	1:39:A:ILE:HD13	1:53:A:GLN:H	3	0.98
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	5	0.98
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	5	0.98
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	5	0.98
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE2	14	0.98
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE3	14	0.98
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG2	8	0.98
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG3	8	0.98
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG2	8	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG3	8	0.98
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG2	8	0.98
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG3	8	0.98
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG21	2	0.98
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG22	2	0.98
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG23	2	0.98
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG21	2	0.98
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG22	2	0.98
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG23	2	0.98
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG21	2	0.98
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG22	2	0.98
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG23	2	0.98
(1,413)	1:21:A:ILE:HG21	1:38:A:VAL:H	13	0.98
(1,413)	1:21:A:ILE:HG22	1:38:A:VAL:H	13	0.98
(1,413)	1:21:A:ILE:HG23	1:38:A:VAL:H	13	0.98
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	3	0.98
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	3	0.98
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	3	0.98
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	3	0.98
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	3	0.98
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	3	0.98
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	3	0.98
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	3	0.98
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	3	0.98
(1,383)	1:6:A:THR:HG21	1:60:A:MET:HB3	20	0.98
(1,383)	1:6:A:THR:HG22	1:60:A:MET:HB3	20	0.98
(1,383)	1:6:A:THR:HG23	1:60:A:MET:HB3	20	0.98
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD11	14	0.98
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD12	14	0.98
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD13	14	0.98
(1,33)	1:37:A:ILE:HG21	1:71:A:HIS:HA	5	0.98
(1,33)	1:37:A:ILE:HG22	1:71:A:HIS:HA	5	0.98
(1,33)	1:37:A:ILE:HG23	1:71:A:HIS:HA	5	0.98
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	8	0.97
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	8	0.97
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	8	0.97
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	8	0.97
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	8	0.97
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	8	0.97
(1,1445)	1:90:A:ARG:H	1:91:A:ARG:HG2	1	0.97
(1,1445)	1:90:A:ARG:H	1:91:A:ARG:HG3	1	0.97
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	17	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	17	0.97
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	17	0.97
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	5	0.97
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	5	0.97
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	5	0.97
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	10	0.97
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	10	0.97
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	10	0.97
(1,782)	1:21:A:ILE:HD11	1:22:A:SER:H	14	0.97
(1,782)	1:21:A:ILE:HD12	1:22:A:SER:H	14	0.97
(1,782)	1:21:A:ILE:HD13	1:22:A:SER:H	14	0.97
(1,781)	1:21:A:ILE:HG21	1:75:A:VAL:H	11	0.97
(1,781)	1:21:A:ILE:HG22	1:75:A:VAL:H	11	0.97
(1,781)	1:21:A:ILE:HG23	1:75:A:VAL:H	11	0.97
(1,644)	1:8:A:THR:HG21	1:85:A:ALA:H	9	0.97
(1,644)	1:8:A:THR:HG22	1:85:A:ALA:H	9	0.97
(1,644)	1:8:A:THR:HG23	1:85:A:ALA:H	9	0.97
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	4	0.97
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	4	0.97
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	4	0.97
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD11	2	0.97
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD12	2	0.97
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD13	2	0.97
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	7	0.97
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	7	0.97
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	7	0.97
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	7	0.97
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	7	0.97
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	7	0.97
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	7	0.97
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	7	0.97
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	7	0.97
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	20	0.97
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	20	0.97
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	20	0.97
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	20	0.97
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	20	0.97
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	20	0.97
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	20	0.97
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	20	0.97
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	20	0.97
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	7	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	7	0.97
(1,134)	1:35:A:THR:HG21	1:68:A:ASN:HA	18	0.97
(1,134)	1:35:A:THR:HG22	1:68:A:ASN:HA	18	0.97
(1,134)	1:35:A:THR:HG23	1:68:A:ASN:HA	18	0.97
(1,1624)	1:61:A:VAL:HG11	1:78:A:LEU:HA	17	0.96
(1,1624)	1:61:A:VAL:HG12	1:78:A:LEU:HA	17	0.96
(1,1624)	1:61:A:VAL:HG13	1:78:A:LEU:HA	17	0.96
(1,1624)	1:61:A:VAL:HG21	1:78:A:LEU:HA	17	0.96
(1,1624)	1:61:A:VAL:HG22	1:78:A:LEU:HA	17	0.96
(1,1624)	1:61:A:VAL:HG23	1:78:A:LEU:HA	17	0.96
(1,1506)	1:7:A:VAL:HG11	1:87:A:ILE:HB	8	0.96
(1,1506)	1:7:A:VAL:HG12	1:87:A:ILE:HB	8	0.96
(1,1506)	1:7:A:VAL:HG13	1:87:A:ILE:HB	8	0.96
(1,1506)	1:7:A:VAL:HG21	1:87:A:ILE:HB	8	0.96
(1,1506)	1:7:A:VAL:HG22	1:87:A:ILE:HB	8	0.96
(1,1506)	1:7:A:VAL:HG23	1:87:A:ILE:HB	8	0.96
(1,1506)	1:7:A:VAL:HG11	1:87:A:ILE:HB	19	0.96
(1,1506)	1:7:A:VAL:HG12	1:87:A:ILE:HB	19	0.96
(1,1506)	1:7:A:VAL:HG13	1:87:A:ILE:HB	19	0.96
(1,1506)	1:7:A:VAL:HG21	1:87:A:ILE:HB	19	0.96
(1,1506)	1:7:A:VAL:HG22	1:87:A:ILE:HB	19	0.96
(1,1506)	1:7:A:VAL:HG23	1:87:A:ILE:HB	19	0.96
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	11	0.96
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	11	0.96
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	11	0.96
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	11	0.96
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	11	0.96
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	11	0.96
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	2	0.96
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	2	0.96
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	2	0.96
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	20	0.96
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	20	0.96
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	20	0.96
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD11	11	0.96
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD12	11	0.96
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD13	11	0.96
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	10	0.96
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	10	0.96
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	10	0.96
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	10	0.96
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	10	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	10	0.96
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG2	6	0.96
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG3	6	0.96
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG2	6	0.96
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG3	6	0.96
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG2	6	0.96
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG3	6	0.96
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	6	0.96
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	6	0.96
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	6	0.96
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	6	0.96
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	6	0.96
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	6	0.96
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	6	0.96
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	6	0.96
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	6	0.96
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	12	0.96
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	12	0.96
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG2	6	0.96
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG3	6	0.96
(1,1506)	1:7:A:VAL:HG11	1:87:A:ILE:HB	16	0.95
(1,1506)	1:7:A:VAL:HG12	1:87:A:ILE:HB	16	0.95
(1,1506)	1:7:A:VAL:HG13	1:87:A:ILE:HB	16	0.95
(1,1506)	1:7:A:VAL:HG21	1:87:A:ILE:HB	16	0.95
(1,1506)	1:7:A:VAL:HG22	1:87:A:ILE:HB	16	0.95
(1,1506)	1:7:A:VAL:HG23	1:87:A:ILE:HB	16	0.95
(1,1506)	1:7:A:VAL:HG11	1:87:A:ILE:HB	17	0.95
(1,1506)	1:7:A:VAL:HG12	1:87:A:ILE:HB	17	0.95
(1,1506)	1:7:A:VAL:HG13	1:87:A:ILE:HB	17	0.95
(1,1506)	1:7:A:VAL:HG21	1:87:A:ILE:HB	17	0.95
(1,1506)	1:7:A:VAL:HG22	1:87:A:ILE:HB	17	0.95
(1,1506)	1:7:A:VAL:HG23	1:87:A:ILE:HB	17	0.95
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD11	18	0.95
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD12	18	0.95
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD13	18	0.95
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	11	0.95
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	11	0.95
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG2	10	0.95
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG3	10	0.95
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG2	13	0.95
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG3	13	0.95
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	15	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	15	0.95
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	15	0.95
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	17	0.95
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	17	0.95
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	17	0.95
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG2	18	0.95
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG3	18	0.95
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	1	0.95
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	1	0.95
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	1	0.95
(1,641)	1:8:A:THR:HG21	1:9:A:LEU:H	13	0.95
(1,641)	1:8:A:THR:HG22	1:9:A:LEU:H	13	0.95
(1,641)	1:8:A:THR:HG23	1:9:A:LEU:H	13	0.95
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG2	20	0.95
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG3	20	0.95
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE2	15	0.95
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE3	15	0.95
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	19	0.95
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	19	0.95
(1,106)	1:25:A:ARG:HG2	1:70:A:GLU:HA	4	0.95
(1,106)	1:25:A:ARG:HG3	1:70:A:GLU:HA	4	0.95
(1,106)	1:25:A:ARG:HG2	1:70:A:GLU:HA	13	0.95
(1,106)	1:25:A:ARG:HG3	1:70:A:GLU:HA	13	0.95
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG2	5	0.95
(1,69)	1:69:A:VAL:HA	1:70:A:GLU:HG3	5	0.95
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE2	3	0.94
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE3	3	0.94
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE2	14	0.94
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE3	14	0.94
(1,1445)	1:90:A:ARG:H	1:91:A:ARG:HG2	17	0.94
(1,1445)	1:90:A:ARG:H	1:91:A:ARG:HG3	17	0.94
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD11	2	0.94
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD12	2	0.94
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD13	2	0.94
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	12	0.94
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	12	0.94
(1,1270)	1:70:A:GLU:HG2	1:74:A:ALA:H	3	0.94
(1,1270)	1:70:A:GLU:HG3	1:74:A:ALA:H	3	0.94
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG21	12	0.94
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG22	12	0.94
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG23	12	0.94
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG2	2	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG3	2	0.94
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD2	15	0.94
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD3	15	0.94
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD2	15	0.94
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD3	15	0.94
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD2	15	0.94
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD3	15	0.94
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG21	19	0.94
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG22	19	0.94
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG23	19	0.94
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG2	17	0.94
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG3	17	0.94
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG2	17	0.94
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG3	17	0.94
(1,95)	1:77:A:GLN:HA	1:80:A:LYS:HD2	5	0.94
(1,95)	1:77:A:GLN:HA	1:80:A:LYS:HD3	5	0.94
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD21	11	0.94
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD22	11	0.94
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD23	11	0.94
(1,1506)	1:7:A:VAL:HG11	1:87:A:ILE:HB	18	0.93
(1,1506)	1:7:A:VAL:HG12	1:87:A:ILE:HB	18	0.93
(1,1506)	1:7:A:VAL:HG13	1:87:A:ILE:HB	18	0.93
(1,1506)	1:7:A:VAL:HG21	1:87:A:ILE:HB	18	0.93
(1,1506)	1:7:A:VAL:HG22	1:87:A:ILE:HB	18	0.93
(1,1506)	1:7:A:VAL:HG23	1:87:A:ILE:HB	18	0.93
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG2	16	0.93
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG3	16	0.93
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	13	0.93
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	13	0.93
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	13	0.93
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	3	0.93
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	3	0.93
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	3	0.93
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	4	0.93
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	4	0.93
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	4	0.93
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG2	13	0.93
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG3	13	0.93
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	3	0.93
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	3	0.93
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	3	0.93
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	8	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	8	0.93
(1,928)	1:37:A:ILE:HD11	1:69:A:VAL:H	2	0.93
(1,928)	1:37:A:ILE:HD12	1:69:A:VAL:H	2	0.93
(1,928)	1:37:A:ILE:HD13	1:69:A:VAL:H	2	0.93
(1,641)	1:8:A:THR:HG21	1:9:A:LEU:H	8	0.93
(1,641)	1:8:A:THR:HG22	1:9:A:LEU:H	8	0.93
(1,641)	1:8:A:THR:HG23	1:9:A:LEU:H	8	0.93
(1,613)	1:6:A:THR:HG21	1:88:A:THR:H	2	0.93
(1,613)	1:6:A:THR:HG22	1:88:A:THR:H	2	0.93
(1,613)	1:6:A:THR:HG23	1:88:A:THR:H	2	0.93
(1,613)	1:6:A:THR:HG21	1:88:A:THR:H	17	0.93
(1,613)	1:6:A:THR:HG22	1:88:A:THR:H	17	0.93
(1,613)	1:6:A:THR:HG23	1:88:A:THR:H	17	0.93
(1,422)	1:69:A:VAL:HG22	1:73:A:PHE:HD1	15	0.93
(1,422)	1:69:A:VAL:HG22	1:73:A:PHE:HD2	15	0.93
(1,422)	1:69:A:VAL:HG21	1:73:A:PHE:HD1	19	0.93
(1,422)	1:69:A:VAL:HG21	1:73:A:PHE:HD2	19	0.93
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB1	4	0.93
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB2	4	0.93
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB3	4	0.93
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB1	4	0.93
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB2	4	0.93
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB3	4	0.93
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB1	4	0.93
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB2	4	0.93
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB3	4	0.93
(1,330)	1:7:A:VAL:HB	1:52:A:LEU:HD21	1	0.93
(1,330)	1:7:A:VAL:HB	1:52:A:LEU:HD22	1	0.93
(1,330)	1:7:A:VAL:HB	1:52:A:LEU:HD23	1	0.93
(1,1569)	1:38:A:VAL:HG11	1:39:A:ILE:HB	16	0.92
(1,1569)	1:38:A:VAL:HG12	1:39:A:ILE:HB	16	0.92
(1,1569)	1:38:A:VAL:HG13	1:39:A:ILE:HB	16	0.92
(1,1569)	1:38:A:VAL:HG21	1:39:A:ILE:HB	16	0.92
(1,1569)	1:38:A:VAL:HG22	1:39:A:ILE:HB	16	0.92
(1,1569)	1:38:A:VAL:HG23	1:39:A:ILE:HB	16	0.92
(1,1089)	1:54:A:GLU:H	1:54:A:GLU:HG2	11	0.92
(1,1089)	1:54:A:GLU:H	1:54:A:GLU:HG3	11	0.92
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	14	0.92
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	14	0.92
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	17	0.92
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	17	0.92
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	16	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	16	0.92
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD11	19	0.92
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD12	19	0.92
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD13	19	0.92
(1,641)	1:8:A:THR:HG21	1:9:A:LEU:H	4	0.92
(1,641)	1:8:A:THR:HG22	1:9:A:LEU:H	4	0.92
(1,641)	1:8:A:THR:HG23	1:9:A:LEU:H	4	0.92
(1,463)	1:39:A:ILE:HD11	1:56:A:ASP:HB2	6	0.92
(1,463)	1:39:A:ILE:HD12	1:56:A:ASP:HB2	6	0.92
(1,463)	1:39:A:ILE:HD13	1:56:A:ASP:HB2	6	0.92
(1,178)	1:79:A:ARG:HD2	1:80:A:LYS:HA	13	0.92
(1,178)	1:79:A:ARG:HD3	1:80:A:LYS:HA	13	0.92
(1,121)	1:21:A:ILE:HD11	1:74:A:ALA:HA	8	0.92
(1,121)	1:21:A:ILE:HD12	1:74:A:ALA:HA	8	0.92
(1,121)	1:21:A:ILE:HD13	1:74:A:ALA:HA	8	0.92
(1,1569)	1:38:A:VAL:HG11	1:39:A:ILE:HB	13	0.91
(1,1569)	1:38:A:VAL:HG12	1:39:A:ILE:HB	13	0.91
(1,1569)	1:38:A:VAL:HG13	1:39:A:ILE:HB	13	0.91
(1,1569)	1:38:A:VAL:HG21	1:39:A:ILE:HB	13	0.91
(1,1569)	1:38:A:VAL:HG22	1:39:A:ILE:HB	13	0.91
(1,1569)	1:38:A:VAL:HG23	1:39:A:ILE:HB	13	0.91
(1,1569)	1:38:A:VAL:HG11	1:39:A:ILE:HB	19	0.91
(1,1569)	1:38:A:VAL:HG12	1:39:A:ILE:HB	19	0.91
(1,1569)	1:38:A:VAL:HG13	1:39:A:ILE:HB	19	0.91
(1,1569)	1:38:A:VAL:HG21	1:39:A:ILE:HB	19	0.91
(1,1569)	1:38:A:VAL:HG22	1:39:A:ILE:HB	19	0.91
(1,1569)	1:38:A:VAL:HG23	1:39:A:ILE:HB	19	0.91
(1,1549)	1:21:A:ILE:HG12	1:75:A:VAL:HB	12	0.91
(1,1549)	1:21:A:ILE:HG13	1:75:A:VAL:HB	12	0.91
(1,1270)	1:70:A:GLU:HG2	1:74:A:ALA:H	11	0.91
(1,1270)	1:70:A:GLU:HG3	1:74:A:ALA:H	11	0.91
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	5	0.91
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	5	0.91
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	5	0.91
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	11	0.91
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	11	0.91
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	11	0.91
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	12	0.91
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	12	0.91
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	12	0.91
(1,930)	1:37:A:ILE:HD11	1:71:A:HIS:H	11	0.91
(1,930)	1:37:A:ILE:HD12	1:71:A:HIS:H	11	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,930)	1:37:A:ILE:HD13	1:71:A:HIS:H	11	0.91
(1,834)	1:39:A:ILE:HD11	1:53:A:GLN:H	5	0.91
(1,834)	1:39:A:ILE:HD12	1:53:A:GLN:H	5	0.91
(1,834)	1:39:A:ILE:HD13	1:53:A:GLN:H	5	0.91
(1,762)	1:20:A:ALA:H	1:39:A:ILE:HG21	12	0.91
(1,762)	1:20:A:ALA:H	1:39:A:ILE:HG22	12	0.91
(1,762)	1:20:A:ALA:H	1:39:A:ILE:HG23	12	0.91
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD11	6	0.91
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD12	6	0.91
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD13	6	0.91
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG2	4	0.91
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG3	4	0.91
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG2	4	0.91
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG3	4	0.91
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG2	4	0.91
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG3	4	0.91
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	9	0.91
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	9	0.91
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	9	0.91
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	9	0.91
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	9	0.91
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	9	0.91
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	9	0.91
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	9	0.91
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	9	0.91
(1,118)	1:37:A:ILE:HG12	1:74:A:ALA:HA	1	0.91
(1,118)	1:37:A:ILE:HG13	1:74:A:ALA:HA	1	0.91
(1,1564)	1:34:A:GLU:HG2	1:36:A:SER:H	15	0.9
(1,1564)	1:34:A:GLU:HG3	1:36:A:SER:H	15	0.9
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE2	10	0.9
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE3	10	0.9
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG2	16	0.9
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG3	16	0.9
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	19	0.9
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	19	0.9
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	19	0.9
(1,930)	1:37:A:ILE:HD11	1:71:A:HIS:H	13	0.9
(1,930)	1:37:A:ILE:HD12	1:71:A:HIS:H	13	0.9
(1,930)	1:37:A:ILE:HD13	1:71:A:HIS:H	13	0.9
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	10	0.9
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	10	0.9
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	10	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	10	0.9
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	10	0.9
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	10	0.9
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	10	0.9
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	10	0.9
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	10	0.9
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB1	7	0.9
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB2	7	0.9
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB3	7	0.9
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB1	7	0.9
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB2	7	0.9
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB3	7	0.9
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB1	7	0.9
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB2	7	0.9
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB3	7	0.9
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG2	3	0.9
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG3	3	0.9
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG2	18	0.9
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG3	18	0.9
(1,1574)	1:38:A:VAL:HG11	1:58:A:VAL:H	2	0.89
(1,1574)	1:38:A:VAL:HG12	1:58:A:VAL:H	2	0.89
(1,1574)	1:38:A:VAL:HG13	1:58:A:VAL:H	2	0.89
(1,1574)	1:38:A:VAL:HG21	1:58:A:VAL:H	2	0.89
(1,1574)	1:38:A:VAL:HG22	1:58:A:VAL:H	2	0.89
(1,1574)	1:38:A:VAL:HG23	1:58:A:VAL:H	2	0.89
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE2	18	0.89
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE3	18	0.89
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG2	11	0.89
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG3	11	0.89
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	4	0.89
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	4	0.89
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	4	0.89
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	14	0.89
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	14	0.89
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	14	0.89
(1,782)	1:21:A:ILE:HD11	1:22:A:SER:H	15	0.89
(1,782)	1:21:A:ILE:HD12	1:22:A:SER:H	15	0.89
(1,782)	1:21:A:ILE:HD13	1:22:A:SER:H	15	0.89
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE2	1	0.89
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE3	1	0.89
(1,611)	1:6:A:THR:HG21	1:7:A:VAL:H	8	0.89
(1,611)	1:6:A:THR:HG22	1:7:A:VAL:H	8	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,611)	1:6:A:THR:HG23	1:7:A:VAL:H	8	0.89
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG2	3	0.89
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG3	3	0.89
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG2	3	0.89
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG3	3	0.89
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG2	3	0.89
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG3	3	0.89
(1,447)	1:21:A:ILE:HD11	1:78:A:LEU:HG	11	0.89
(1,447)	1:21:A:ILE:HD12	1:78:A:LEU:HG	11	0.89
(1,447)	1:21:A:ILE:HD13	1:78:A:LEU:HG	11	0.89
(1,290)	1:44:A:LYS:HD2	1:49:A:GLU:HB3	14	0.89
(1,290)	1:44:A:LYS:HD3	1:49:A:GLU:HB3	14	0.89
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	12	0.89
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	12	0.89
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	12	0.89
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	12	0.89
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE2	9	0.89
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE3	9	0.89
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD11	18	0.89
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD12	18	0.89
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD13	18	0.89
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG21	5	0.89
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG22	5	0.89
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG23	5	0.89
(1,1569)	1:38:A:VAL:HG11	1:39:A:ILE:HB	9	0.88
(1,1569)	1:38:A:VAL:HG12	1:39:A:ILE:HB	9	0.88
(1,1569)	1:38:A:VAL:HG13	1:39:A:ILE:HB	9	0.88
(1,1569)	1:38:A:VAL:HG21	1:39:A:ILE:HB	9	0.88
(1,1569)	1:38:A:VAL:HG22	1:39:A:ILE:HB	9	0.88
(1,1569)	1:38:A:VAL:HG23	1:39:A:ILE:HB	9	0.88
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG11	17	0.88
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG12	17	0.88
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG13	17	0.88
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG21	17	0.88
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG22	17	0.88
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG23	17	0.88
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG11	17	0.88
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG12	17	0.88
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG13	17	0.88
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG21	17	0.88
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG22	17	0.88
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG23	17	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE2	7	0.88
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE3	7	0.88
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG2	2	0.88
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG3	2	0.88
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG2	20	0.88
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG3	20	0.88
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	11	0.88
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	11	0.88
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	11	0.88
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	1	0.88
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	1	0.88
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	1	0.88
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	7	0.88
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	7	0.88
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	7	0.88
(1,1094)	1:54:A:GLU:HG2	1:55:A:ASN:H	9	0.88
(1,1094)	1:54:A:GLU:HG3	1:55:A:ASN:H	9	0.88
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG2	6	0.88
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG3	6	0.88
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	6	0.88
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	6	0.88
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	6	0.88
(1,641)	1:8:A:THR:HG21	1:9:A:LEU:H	12	0.88
(1,641)	1:8:A:THR:HG22	1:9:A:LEU:H	12	0.88
(1,641)	1:8:A:THR:HG23	1:9:A:LEU:H	12	0.88
(1,641)	1:8:A:THR:HG21	1:9:A:LEU:H	16	0.88
(1,641)	1:8:A:THR:HG22	1:9:A:LEU:H	16	0.88
(1,641)	1:8:A:THR:HG23	1:9:A:LEU:H	16	0.88
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG21	20	0.88
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG22	20	0.88
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG23	20	0.88
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG21	20	0.88
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG22	20	0.88
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG23	20	0.88
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG21	20	0.88
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG22	20	0.88
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG23	20	0.88
(1,447)	1:21:A:ILE:HD11	1:78:A:LEU:HG	9	0.88
(1,447)	1:21:A:ILE:HD12	1:78:A:LEU:HG	9	0.88
(1,447)	1:21:A:ILE:HD13	1:78:A:LEU:HG	9	0.88
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG2	19	0.88
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG3	19	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG2	19	0.88
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG3	19	0.88
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG2	19	0.88
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG3	19	0.88
(1,317)	1:78:A:LEU:HD21	1:79:A:ARG:HG2	10	0.88
(1,317)	1:78:A:LEU:HD21	1:79:A:ARG:HG3	10	0.88
(1,317)	1:78:A:LEU:HD22	1:79:A:ARG:HG2	10	0.88
(1,317)	1:78:A:LEU:HD22	1:79:A:ARG:HG3	10	0.88
(1,317)	1:78:A:LEU:HD23	1:79:A:ARG:HG2	10	0.88
(1,317)	1:78:A:LEU:HD23	1:79:A:ARG:HG3	10	0.88
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG2	5	0.88
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG3	5	0.88
(1,12)	1:75:A:VAL:HA	1:79:A:ARG:HG2	16	0.88
(1,12)	1:75:A:VAL:HA	1:79:A:ARG:HG3	16	0.88
(1,1569)	1:38:A:VAL:HG11	1:39:A:ILE:HB	7	0.87
(1,1569)	1:38:A:VAL:HG12	1:39:A:ILE:HB	7	0.87
(1,1569)	1:38:A:VAL:HG13	1:39:A:ILE:HB	7	0.87
(1,1569)	1:38:A:VAL:HG21	1:39:A:ILE:HB	7	0.87
(1,1569)	1:38:A:VAL:HG22	1:39:A:ILE:HB	7	0.87
(1,1569)	1:38:A:VAL:HG23	1:39:A:ILE:HB	7	0.87
(1,1521)	1:11:A:ARG:HD2	1:79:A:ARG:H	1	0.87
(1,1521)	1:11:A:ARG:HD3	1:79:A:ARG:H	1	0.87
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB2	18	0.87
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB3	18	0.87
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB2	18	0.87
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB3	18	0.87
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB2	18	0.87
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB3	18	0.87
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	13	0.87
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	13	0.87
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG2	15	0.87
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG3	15	0.87
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG2	19	0.87
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG3	19	0.87
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG2	11	0.87
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG3	11	0.87
(1,1125)	1:58:A:VAL:HG21	1:59:A:ALA:H	12	0.87
(1,1125)	1:58:A:VAL:HG22	1:59:A:ALA:H	12	0.87
(1,1125)	1:58:A:VAL:HG23	1:59:A:ALA:H	12	0.87
(1,928)	1:37:A:ILE:HD11	1:69:A:VAL:H	12	0.87
(1,928)	1:37:A:ILE:HD12	1:69:A:VAL:H	12	0.87
(1,928)	1:37:A:ILE:HD13	1:69:A:VAL:H	12	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,893)	1:35:A:THR:HG21	1:68:A:ASN:H	20	0.87
(1,893)	1:35:A:THR:HG22	1:68:A:ASN:H	20	0.87
(1,893)	1:35:A:THR:HG23	1:68:A:ASN:H	20	0.87
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	10	0.87
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	10	0.87
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	10	0.87
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	8	0.87
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	8	0.87
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	8	0.87
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	8	0.87
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	8	0.87
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	8	0.87
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	8	0.87
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	8	0.87
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	8	0.87
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	7	0.87
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	7	0.87
(1,1270)	1:70:A:GLU:HG2	1:74:A:ALA:H	2	0.86
(1,1270)	1:70:A:GLU:HG3	1:74:A:ALA:H	2	0.86
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	1	0.86
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	1	0.86
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	1	0.86
(1,930)	1:37:A:ILE:HD11	1:71:A:HIS:H	18	0.86
(1,930)	1:37:A:ILE:HD12	1:71:A:HIS:H	18	0.86
(1,930)	1:37:A:ILE:HD13	1:71:A:HIS:H	18	0.86
(1,782)	1:21:A:ILE:HD11	1:22:A:SER:H	10	0.86
(1,782)	1:21:A:ILE:HD12	1:22:A:SER:H	10	0.86
(1,782)	1:21:A:ILE:HD13	1:22:A:SER:H	10	0.86
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE2	3	0.86
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE3	3	0.86
(1,611)	1:6:A:THR:HG21	1:7:A:VAL:H	5	0.86
(1,611)	1:6:A:THR:HG22	1:7:A:VAL:H	5	0.86
(1,611)	1:6:A:THR:HG23	1:7:A:VAL:H	5	0.86
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG2	19	0.86
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG3	19	0.86
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG2	18	0.86
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG3	18	0.86
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG2	18	0.86
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG3	18	0.86
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG2	18	0.86
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG3	18	0.86
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	1	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	1	0.86
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	1	0.86
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG2	5	0.86
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG3	5	0.86
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG2	5	0.86
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG3	5	0.86
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG2	5	0.86
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG3	5	0.86
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG2	14	0.86
(1,324)	1:81:A:SER:HB3	1:83:A:LYS:HG3	14	0.86
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	8	0.86
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	8	0.86
(1,236)	1:89:A:ILE:HD11	1:91:A:ARG:HB2	14	0.86
(1,236)	1:89:A:ILE:HD12	1:91:A:ARG:HB2	14	0.86
(1,236)	1:89:A:ILE:HD13	1:91:A:ARG:HB2	14	0.86
(1,134)	1:35:A:THR:HG21	1:68:A:ASN:HA	3	0.86
(1,134)	1:35:A:THR:HG22	1:68:A:ASN:HA	3	0.86
(1,134)	1:35:A:THR:HG23	1:68:A:ASN:HA	3	0.86
(1,121)	1:21:A:ILE:HD11	1:74:A:ALA:HA	10	0.86
(1,121)	1:21:A:ILE:HD12	1:74:A:ALA:HA	10	0.86
(1,121)	1:21:A:ILE:HD13	1:74:A:ALA:HA	10	0.86
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	9	0.86
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	9	0.86
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	2	0.85
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	2	0.85
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	2	0.85
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD11	10	0.85
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD12	10	0.85
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD13	10	0.85
(1,611)	1:6:A:THR:HG21	1:7:A:VAL:H	12	0.85
(1,611)	1:6:A:THR:HG22	1:7:A:VAL:H	12	0.85
(1,611)	1:6:A:THR:HG23	1:7:A:VAL:H	12	0.85
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG2	20	0.85
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG3	20	0.85
(1,463)	1:39:A:ILE:HD11	1:56:A:ASP:HB2	3	0.85
(1,463)	1:39:A:ILE:HD12	1:56:A:ASP:HB2	3	0.85
(1,463)	1:39:A:ILE:HD13	1:56:A:ASP:HB2	3	0.85
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	1	0.85
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	1	0.85
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	1	0.85
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	1	0.85
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	1	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	1	0.85
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	4	0.85
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	4	0.85
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	4	0.85
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	4	0.85
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	4	0.85
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	4	0.85
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	4	0.85
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	4	0.85
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	4	0.85
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	5	0.85
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	5	0.85
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	5	0.85
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	5	0.85
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	5	0.85
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	5	0.85
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	5	0.85
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	5	0.85
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	5	0.85
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD21	14	0.85
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD22	14	0.85
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD23	14	0.85
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG2	2	0.85
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG3	2	0.85
(1,178)	1:79:A:ARG:HD2	1:80:A:LYS:HA	17	0.85
(1,178)	1:79:A:ARG:HD3	1:80:A:LYS:HA	17	0.85
(1,121)	1:21:A:ILE:HD11	1:74:A:ALA:HA	6	0.85
(1,121)	1:21:A:ILE:HD12	1:74:A:ALA:HA	6	0.85
(1,121)	1:21:A:ILE:HD13	1:74:A:ALA:HA	6	0.85
(1,106)	1:25:A:ARG:HG2	1:70:A:GLU:HA	7	0.85
(1,106)	1:25:A:ARG:HG3	1:70:A:GLU:HA	7	0.85
(1,95)	1:77:A:GLN:HA	1:80:A:LYS:HD2	1	0.85
(1,95)	1:77:A:GLN:HA	1:80:A:LYS:HD3	1	0.85
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	12	0.84
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	12	0.84
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	12	0.84
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	12	0.84
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	12	0.84
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	12	0.84
(1,1569)	1:38:A:VAL:HG11	1:39:A:ILE:HB	3	0.84
(1,1569)	1:38:A:VAL:HG12	1:39:A:ILE:HB	3	0.84
(1,1569)	1:38:A:VAL:HG13	1:39:A:ILE:HB	3	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1569)	1:38:A:VAL:HG21	1:39:A:ILE:HB	3	0.84
(1,1569)	1:38:A:VAL:HG22	1:39:A:ILE:HB	3	0.84
(1,1569)	1:38:A:VAL:HG23	1:39:A:ILE:HB	3	0.84
(1,1521)	1:11:A:ARG:HD2	1:79:A:ARG:H	11	0.84
(1,1521)	1:11:A:ARG:HD3	1:79:A:ARG:H	11	0.84
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	15	0.84
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	15	0.84
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	15	0.84
(1,1089)	1:54:A:GLU:H	1:54:A:GLU:HG2	17	0.84
(1,1089)	1:54:A:GLU:H	1:54:A:GLU:HG3	17	0.84
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	10	0.84
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	10	0.84
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	10	0.84
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	6	0.84
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	6	0.84
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	8	0.84
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	8	0.84
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	8	0.84
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	15	0.84
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	15	0.84
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	15	0.84
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG21	5	0.84
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG22	5	0.84
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG23	5	0.84
(1,781)	1:21:A:ILE:HG21	1:75:A:VAL:H	20	0.84
(1,781)	1:21:A:ILE:HG22	1:75:A:VAL:H	20	0.84
(1,781)	1:21:A:ILE:HG23	1:75:A:VAL:H	20	0.84
(1,506)	1:39:A:ILE:HD11	1:89:A:ILE:HA	8	0.84
(1,506)	1:39:A:ILE:HD12	1:89:A:ILE:HA	8	0.84
(1,506)	1:39:A:ILE:HD13	1:89:A:ILE:HA	8	0.84
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	17	0.84
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	17	0.84
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD21	10	0.84
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD22	10	0.84
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD23	10	0.84
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	20	0.83
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	20	0.83
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	20	0.83
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	20	0.83
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	20	0.83
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	20	0.83
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD11	10	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD12	10	0.83
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD13	10	0.83
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG2	18	0.83
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG3	18	0.83
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG2	8	0.83
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG3	8	0.83
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG2	4	0.83
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG3	4	0.83
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	15	0.83
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	15	0.83
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	15	0.83
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE2	20	0.83
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE3	20	0.83
(1,613)	1:6:A:THR:HG21	1:88:A:THR:H	6	0.83
(1,613)	1:6:A:THR:HG22	1:88:A:THR:H	6	0.83
(1,613)	1:6:A:THR:HG23	1:88:A:THR:H	6	0.83
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	18	0.83
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	18	0.83
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	18	0.83
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	14	0.83
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	14	0.83
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD11	15	0.83
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD12	15	0.83
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD13	15	0.83
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	3	0.83
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	3	0.83
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	3	0.83
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	3	0.83
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	15	0.83
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	15	0.83
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	15	0.83
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	15	0.83
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	7	0.82
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	7	0.82
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	7	0.82
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	7	0.82
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	7	0.82
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	7	0.82
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	14	0.82
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	14	0.82
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	14	0.82
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	14	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	14	0.82
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	14	0.82
(1,1484)	1:60:A:MET:HE1	1:64:A:VAL:H	4	0.82
(1,1484)	1:60:A:MET:HE2	1:64:A:VAL:H	4	0.82
(1,1484)	1:60:A:MET:HE3	1:64:A:VAL:H	4	0.82
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG2	12	0.82
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG3	12	0.82
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG2	15	0.82
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG3	15	0.82
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	5	0.82
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	5	0.82
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	5	0.82
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	14	0.82
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	14	0.82
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	14	0.82
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	14	0.82
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	14	0.82
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	19	0.82
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	19	0.82
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	19	0.82
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE2	9	0.82
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE3	9	0.82
(1,611)	1:6:A:THR:HG21	1:7:A:VAL:H	20	0.82
(1,611)	1:6:A:THR:HG22	1:7:A:VAL:H	20	0.82
(1,611)	1:6:A:THR:HG23	1:7:A:VAL:H	20	0.82
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG2	7	0.82
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG3	7	0.82
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG2	7	0.82
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG3	7	0.82
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG2	7	0.82
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG3	7	0.82
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG2	9	0.82
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG3	9	0.82
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG2	9	0.82
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG3	9	0.82
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG2	9	0.82
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG3	9	0.82
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG11	4	0.82
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG12	4	0.82
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG13	4	0.82
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG11	4	0.82
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG12	4	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG13	4	0.82
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	15	0.82
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	15	0.82
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	15	0.82
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	15	0.82
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	15	0.82
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	15	0.82
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	15	0.82
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	15	0.82
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	15	0.82
(1,371)	1:6:A:THR:HG21	1:86:A:LYS:HB2	2	0.82
(1,371)	1:6:A:THR:HG22	1:86:A:LYS:HB2	2	0.82
(1,371)	1:6:A:THR:HG23	1:86:A:LYS:HB2	2	0.82
(1,290)	1:44:A:LYS:HD2	1:49:A:GLU:HB3	6	0.82
(1,290)	1:44:A:LYS:HD3	1:49:A:GLU:HB3	6	0.82
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD21	3	0.82
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD22	3	0.82
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD23	3	0.82
(1,1569)	1:38:A:VAL:HG11	1:39:A:ILE:HB	11	0.81
(1,1569)	1:38:A:VAL:HG12	1:39:A:ILE:HB	11	0.81
(1,1569)	1:38:A:VAL:HG13	1:39:A:ILE:HB	11	0.81
(1,1569)	1:38:A:VAL:HG21	1:39:A:ILE:HB	11	0.81
(1,1569)	1:38:A:VAL:HG22	1:39:A:ILE:HB	11	0.81
(1,1569)	1:38:A:VAL:HG23	1:39:A:ILE:HB	11	0.81
(1,1506)	1:7:A:VAL:HG11	1:87:A:ILE:HB	15	0.81
(1,1506)	1:7:A:VAL:HG12	1:87:A:ILE:HB	15	0.81
(1,1506)	1:7:A:VAL:HG13	1:87:A:ILE:HB	15	0.81
(1,1506)	1:7:A:VAL:HG21	1:87:A:ILE:HB	15	0.81
(1,1506)	1:7:A:VAL:HG22	1:87:A:ILE:HB	15	0.81
(1,1506)	1:7:A:VAL:HG23	1:87:A:ILE:HB	15	0.81
(1,1445)	1:90:A:ARG:H	1:91:A:ARG:HG2	2	0.81
(1,1445)	1:90:A:ARG:H	1:91:A:ARG:HG3	2	0.81
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG2	15	0.81
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG3	15	0.81
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	8	0.81
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	8	0.81
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	8	0.81
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	14	0.81
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	14	0.81
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	14	0.81
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	17	0.81
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	17	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	17	0.81
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	10	0.81
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	10	0.81
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	1	0.81
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	1	0.81
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	1	0.81
(1,613)	1:6:A:THR:HG21	1:88:A:THR:H	7	0.81
(1,613)	1:6:A:THR:HG22	1:88:A:THR:H	7	0.81
(1,613)	1:6:A:THR:HG23	1:88:A:THR:H	7	0.81
(1,611)	1:6:A:THR:HG21	1:7:A:VAL:H	15	0.81
(1,611)	1:6:A:THR:HG22	1:7:A:VAL:H	15	0.81
(1,611)	1:6:A:THR:HG23	1:7:A:VAL:H	15	0.81
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	10	0.81
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	10	0.81
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	10	0.81
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG2	12	0.81
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG3	12	0.81
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG2	12	0.81
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG3	12	0.81
(1,182)	1:39:A:ILE:HD11	1:89:A:ILE:HB	8	0.81
(1,182)	1:39:A:ILE:HD12	1:89:A:ILE:HB	8	0.81
(1,182)	1:39:A:ILE:HD13	1:89:A:ILE:HB	8	0.81
(1,86)	1:39:A:ILE:HD11	1:54:A:GLU:HA	15	0.81
(1,86)	1:39:A:ILE:HD12	1:54:A:GLU:HA	15	0.81
(1,86)	1:39:A:ILE:HD13	1:54:A:GLU:HA	15	0.81
(1,1564)	1:34:A:GLU:HG2	1:36:A:SER:H	9	0.8
(1,1564)	1:34:A:GLU:HG3	1:36:A:SER:H	9	0.8
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB2	9	0.8
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB3	9	0.8
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB2	9	0.8
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB3	9	0.8
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB2	9	0.8
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB3	9	0.8
(1,1506)	1:7:A:VAL:HG11	1:87:A:ILE:HB	11	0.8
(1,1506)	1:7:A:VAL:HG12	1:87:A:ILE:HB	11	0.8
(1,1506)	1:7:A:VAL:HG13	1:87:A:ILE:HB	11	0.8
(1,1506)	1:7:A:VAL:HG21	1:87:A:ILE:HB	11	0.8
(1,1506)	1:7:A:VAL:HG22	1:87:A:ILE:HB	11	0.8
(1,1506)	1:7:A:VAL:HG23	1:87:A:ILE:HB	11	0.8
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG2	4	0.8
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG3	4	0.8
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG2	6	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG3	6	0.8
(1,537)	1:8:A:THR:HG21	1:84:A:ASN:HA	15	0.8
(1,537)	1:8:A:THR:HG22	1:84:A:ASN:HA	15	0.8
(1,537)	1:8:A:THR:HG23	1:84:A:ASN:HA	15	0.8
(1,422)	1:69:A:VAL:HG22	1:73:A:PHE:HD1	3	0.8
(1,422)	1:69:A:VAL:HG22	1:73:A:PHE:HD2	3	0.8
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG11	8	0.8
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG12	8	0.8
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG13	8	0.8
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG11	8	0.8
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG12	8	0.8
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG13	8	0.8
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG2	4	0.8
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG3	4	0.8
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG2	4	0.8
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG3	4	0.8
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG2	4	0.8
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG3	4	0.8
(1,118)	1:37:A:ILE:HG12	1:74:A:ALA:HA	15	0.8
(1,118)	1:37:A:ILE:HG13	1:74:A:ALA:HA	15	0.8
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	1	0.79
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	1	0.79
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	1	0.79
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	1	0.79
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	1	0.79
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	1	0.79
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	15	0.79
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	15	0.79
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	15	0.79
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	15	0.79
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	15	0.79
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	15	0.79
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG2	6	0.79
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG3	6	0.79
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	17	0.79
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	17	0.79
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	8	0.79
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	8	0.79
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	8	0.79
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	4	0.79
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	4	0.79
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	4	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,927)	1:37:A:ILE:HD11	1:68:A:ASN:H	5	0.79
(1,927)	1:37:A:ILE:HD12	1:68:A:ASN:H	5	0.79
(1,927)	1:37:A:ILE:HD13	1:68:A:ASN:H	5	0.79
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	8	0.79
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	8	0.79
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	8	0.79
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD11	15	0.79
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD12	15	0.79
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD13	15	0.79
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD11	15	0.79
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD12	15	0.79
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD13	15	0.79
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD11	15	0.79
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD12	15	0.79
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD13	15	0.79
(1,463)	1:39:A:ILE:HD11	1:56:A:ASP:HB2	8	0.79
(1,463)	1:39:A:ILE:HD12	1:56:A:ASP:HB2	8	0.79
(1,463)	1:39:A:ILE:HD13	1:56:A:ASP:HB2	8	0.79
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD11	17	0.79
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD12	17	0.79
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD13	17	0.79
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	1	0.79
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	1	0.79
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	1	0.79
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	18	0.79
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	18	0.79
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	18	0.79
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	18	0.79
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	18	0.79
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	18	0.79
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	18	0.79
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	18	0.79
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	18	0.79
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG2	14	0.79
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG3	14	0.79
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG2	14	0.79
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG3	14	0.79
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG2	14	0.79
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG3	14	0.79
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	17	0.79
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	17	0.79
(1,250)	1:6:A:THR:HG21	1:86:A:LYS:HB3	17	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,250)	1:6:A:THR:HG22	1:86:A:LYS:HB3	17	0.79
(1,250)	1:6:A:THR:HG23	1:86:A:LYS:HB3	17	0.79
(1,106)	1:25:A:ARG:HG2	1:70:A:GLU:HA	8	0.79
(1,106)	1:25:A:ARG:HG3	1:70:A:GLU:HA	8	0.79
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	1	0.78
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	1	0.78
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	13	0.78
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	13	0.78
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	13	0.78
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	2	0.78
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	2	0.78
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	2	0.78
(1,1094)	1:54:A:GLU:HG2	1:55:A:ASN:H	2	0.78
(1,1094)	1:54:A:GLU:HG3	1:55:A:ASN:H	2	0.78
(1,782)	1:21:A:ILE:HD11	1:22:A:SER:H	3	0.78
(1,782)	1:21:A:ILE:HD12	1:22:A:SER:H	3	0.78
(1,782)	1:21:A:ILE:HD13	1:22:A:SER:H	3	0.78
(1,461)	1:39:A:ILE:HD11	1:56:A:ASP:H	8	0.78
(1,461)	1:39:A:ILE:HD12	1:56:A:ASP:H	8	0.78
(1,461)	1:39:A:ILE:HD13	1:56:A:ASP:H	8	0.78
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD11	18	0.78
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD12	18	0.78
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD13	18	0.78
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB1	10	0.78
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB2	10	0.78
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB3	10	0.78
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB1	10	0.78
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB2	10	0.78
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB3	10	0.78
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB1	10	0.78
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB2	10	0.78
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB3	10	0.78
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	4	0.78
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	4	0.78
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	4	0.78
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG11	13	0.78
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG12	13	0.78
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG13	13	0.78
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG11	13	0.78
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG12	13	0.78
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG13	13	0.78
(1,371)	1:6:A:THR:HG21	1:86:A:LYS:HB2	6	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,371)	1:6:A:THR:HG22	1:86:A:LYS:HB2	6	0.78
(1,371)	1:6:A:THR:HG23	1:86:A:LYS:HB2	6	0.78
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG21	19	0.78
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG22	19	0.78
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG23	19	0.78
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG21	19	0.78
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG22	19	0.78
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG23	19	0.78
(1,118)	1:37:A:ILE:HG12	1:74:A:ALA:HA	7	0.78
(1,118)	1:37:A:ILE:HG13	1:74:A:ALA:HA	7	0.78
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG2	1	0.78
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG3	1	0.78
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG21	18	0.78
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG22	18	0.78
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG23	18	0.78
(1,1626)	1:61:A:VAL:HG11	1:86:A:LYS:H	20	0.77
(1,1626)	1:61:A:VAL:HG12	1:86:A:LYS:H	20	0.77
(1,1626)	1:61:A:VAL:HG13	1:86:A:LYS:H	20	0.77
(1,1626)	1:61:A:VAL:HG21	1:86:A:LYS:H	20	0.77
(1,1626)	1:61:A:VAL:HG22	1:86:A:LYS:H	20	0.77
(1,1626)	1:61:A:VAL:HG23	1:86:A:LYS:H	20	0.77
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	5	0.77
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	5	0.77
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	5	0.77
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	5	0.77
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	5	0.77
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	5	0.77
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	18	0.77
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	18	0.77
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	8	0.77
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	8	0.77
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	8	0.77
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	5	0.77
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	5	0.77
(1,952)	1:39:A:ILE:HG21	1:40:A:SER:H	5	0.77
(1,952)	1:39:A:ILE:HG22	1:40:A:SER:H	5	0.77
(1,952)	1:39:A:ILE:HG23	1:40:A:SER:H	5	0.77
(1,467)	1:37:A:ILE:HD11	1:74:A:ALA:H	14	0.77
(1,467)	1:37:A:ILE:HD12	1:74:A:ALA:H	14	0.77
(1,467)	1:37:A:ILE:HD13	1:74:A:ALA:H	14	0.77
(1,444)	1:21:A:ILE:HD11	1:74:A:ALA:H	13	0.77
(1,444)	1:21:A:ILE:HD12	1:74:A:ALA:H	13	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,444)	1:21:A:ILE:HD13	1:74:A:ALA:H	13	0.77
(1,112)	1:54:A:GLU:HG2	1:55:A:ASN:HA	2	0.77
(1,112)	1:54:A:GLU:HG3	1:55:A:ASN:HA	2	0.77
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG2	6	0.76
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG3	6	0.76
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	14	0.76
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	14	0.76
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	14	0.76
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB2	13	0.76
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB3	13	0.76
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	15	0.76
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	15	0.76
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	2	0.76
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	2	0.76
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	2	0.76
(1,804)	1:23:A:GLY:H	1:40:A:SER:HB2	13	0.76
(1,804)	1:23:A:GLY:H	1:40:A:SER:HB3	13	0.76
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD11	6	0.76
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD12	6	0.76
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD13	6	0.76
(1,613)	1:6:A:THR:HG21	1:88:A:THR:H	20	0.76
(1,613)	1:6:A:THR:HG22	1:88:A:THR:H	20	0.76
(1,613)	1:6:A:THR:HG23	1:88:A:THR:H	20	0.76
(1,611)	1:6:A:THR:HG21	1:7:A:VAL:H	2	0.76
(1,611)	1:6:A:THR:HG22	1:7:A:VAL:H	2	0.76
(1,611)	1:6:A:THR:HG23	1:7:A:VAL:H	2	0.76
(1,611)	1:6:A:THR:HG21	1:7:A:VAL:H	6	0.76
(1,611)	1:6:A:THR:HG22	1:7:A:VAL:H	6	0.76
(1,611)	1:6:A:THR:HG23	1:7:A:VAL:H	6	0.76
(1,506)	1:39:A:ILE:HD11	1:89:A:ILE:HA	3	0.76
(1,506)	1:39:A:ILE:HD12	1:89:A:ILE:HA	3	0.76
(1,506)	1:39:A:ILE:HD13	1:89:A:ILE:HA	3	0.76
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	11	0.76
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	11	0.76
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	11	0.76
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	11	0.76
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	11	0.76
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	11	0.76
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	11	0.76
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	11	0.76
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	11	0.76
(1,371)	1:6:A:THR:HG21	1:86:A:LYS:HB2	7	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,371)	1:6:A:THR:HG22	1:86:A:LYS:HB2	7	0.76
(1,371)	1:6:A:THR:HG23	1:86:A:LYS:HB2	7	0.76
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG21	9	0.76
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG22	9	0.76
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG23	9	0.76
(1,182)	1:39:A:ILE:HD11	1:89:A:ILE:HB	3	0.76
(1,182)	1:39:A:ILE:HD12	1:89:A:ILE:HB	3	0.76
(1,182)	1:39:A:ILE:HD13	1:89:A:ILE:HB	3	0.76
(1,86)	1:39:A:ILE:HD11	1:54:A:GLU:HA	11	0.76
(1,86)	1:39:A:ILE:HD12	1:54:A:GLU:HA	11	0.76
(1,86)	1:39:A:ILE:HD13	1:54:A:GLU:HA	11	0.76
(1,1445)	1:90:A:ARG:H	1:91:A:ARG:HG2	14	0.75
(1,1445)	1:90:A:ARG:H	1:91:A:ARG:HG3	14	0.75
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	6	0.75
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	6	0.75
(1,1089)	1:54:A:GLU:H	1:54:A:GLU:HG2	13	0.75
(1,1089)	1:54:A:GLU:H	1:54:A:GLU:HG3	13	0.75
(1,782)	1:21:A:ILE:HD11	1:22:A:SER:H	6	0.75
(1,782)	1:21:A:ILE:HD12	1:22:A:SER:H	6	0.75
(1,782)	1:21:A:ILE:HD13	1:22:A:SER:H	6	0.75
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD11	5	0.75
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD12	5	0.75
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD13	5	0.75
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD11	19	0.75
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD12	19	0.75
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD13	19	0.75
(1,551)	1:1:A:ILE:HD11	1:2:A:TRP:H	6	0.75
(1,551)	1:1:A:ILE:HD12	1:2:A:TRP:H	6	0.75
(1,551)	1:1:A:ILE:HD13	1:2:A:TRP:H	6	0.75
(1,537)	1:8:A:THR:HG21	1:84:A:ASN:HA	14	0.75
(1,537)	1:8:A:THR:HG22	1:84:A:ASN:HA	14	0.75
(1,537)	1:8:A:THR:HG23	1:84:A:ASN:HA	14	0.75
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	2	0.75
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	2	0.75
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	2	0.75
(1,413)	1:21:A:ILE:HG21	1:38:A:VAL:H	3	0.75
(1,413)	1:21:A:ILE:HG22	1:38:A:VAL:H	3	0.75
(1,413)	1:21:A:ILE:HG23	1:38:A:VAL:H	3	0.75
(1,413)	1:21:A:ILE:HG21	1:38:A:VAL:H	19	0.75
(1,413)	1:21:A:ILE:HG22	1:38:A:VAL:H	19	0.75
(1,413)	1:21:A:ILE:HG23	1:38:A:VAL:H	19	0.75
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG2	4	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG3	4	0.75
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG2	4	0.75
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG3	4	0.75
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE2	14	0.75
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE3	14	0.75
(1,98)	1:39:A:ILE:HG21	1:40:A:SER:HA	5	0.75
(1,98)	1:39:A:ILE:HG22	1:40:A:SER:HA	5	0.75
(1,98)	1:39:A:ILE:HG23	1:40:A:SER:HA	5	0.75
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	10	0.74
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	10	0.74
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	10	0.74
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	10	0.74
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	10	0.74
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	10	0.74
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG2	20	0.74
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG3	20	0.74
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG2	20	0.74
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG3	20	0.74
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG2	18	0.74
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG3	18	0.74
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	10	0.74
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	10	0.74
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	10	0.74
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	19	0.74
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	19	0.74
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	19	0.74
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	2	0.74
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	2	0.74
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	2	0.74
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	17	0.74
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	17	0.74
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	17	0.74
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	19	0.74
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	19	0.74
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	19	0.74
(1,893)	1:35:A:THR:HG21	1:68:A:ASN:H	16	0.74
(1,893)	1:35:A:THR:HG22	1:68:A:ASN:H	16	0.74
(1,893)	1:35:A:THR:HG23	1:68:A:ASN:H	16	0.74
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD11	7	0.74
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD12	7	0.74
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD13	7	0.74
(1,611)	1:6:A:THR:HG21	1:7:A:VAL:H	7	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,611)	1:6:A:THR:HG22	1:7:A:VAL:H	7	0.74
(1,611)	1:6:A:THR:HG23	1:7:A:VAL:H	7	0.74
(1,567)	1:1:A:ILE:HD11	1:3:A:GLU:H	3	0.74
(1,567)	1:1:A:ILE:HD12	1:3:A:GLU:H	3	0.74
(1,567)	1:1:A:ILE:HD13	1:3:A:GLU:H	3	0.74
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG2	7	0.74
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG3	7	0.74
(1,537)	1:8:A:THR:HG21	1:84:A:ASN:HA	4	0.74
(1,537)	1:8:A:THR:HG22	1:84:A:ASN:HA	4	0.74
(1,537)	1:8:A:THR:HG23	1:84:A:ASN:HA	4	0.74
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD11	4	0.74
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD12	4	0.74
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD13	4	0.74
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD11	4	0.74
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD12	4	0.74
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD13	4	0.74
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD11	4	0.74
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD12	4	0.74
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD13	4	0.74
(1,404)	1:19:A:ILE:HG21	1:48:A:ALA:H	14	0.74
(1,404)	1:19:A:ILE:HG22	1:48:A:ALA:H	14	0.74
(1,404)	1:19:A:ILE:HG23	1:48:A:ALA:H	14	0.74
(1,383)	1:6:A:THR:HG21	1:60:A:MET:HB3	17	0.74
(1,383)	1:6:A:THR:HG22	1:60:A:MET:HB3	17	0.74
(1,383)	1:6:A:THR:HG23	1:60:A:MET:HB3	17	0.74
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD2	19	0.74
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD3	19	0.74
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	13	0.74
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	13	0.74
(1,170)	1:76:A:GLN:HA	1:79:A:ARG:HD2	3	0.74
(1,170)	1:76:A:GLN:HA	1:79:A:ARG:HD3	3	0.74
(1,106)	1:25:A:ARG:HG2	1:70:A:GLU:HA	20	0.74
(1,106)	1:25:A:ARG:HG3	1:70:A:GLU:HA	20	0.74
(1,98)	1:39:A:ILE:HG21	1:40:A:SER:HA	12	0.74
(1,98)	1:39:A:ILE:HG22	1:40:A:SER:HA	12	0.74
(1,98)	1:39:A:ILE:HG23	1:40:A:SER:HA	12	0.74
(1,86)	1:39:A:ILE:HD11	1:54:A:GLU:HA	8	0.74
(1,86)	1:39:A:ILE:HD12	1:54:A:GLU:HA	8	0.74
(1,86)	1:39:A:ILE:HD13	1:54:A:GLU:HA	8	0.74
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB2	1	0.73
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB3	1	0.73
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB2	13	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB3	13	0.73
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE2	20	0.73
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE3	20	0.73
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG2	5	0.73
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG3	5	0.73
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG2	5	0.73
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG3	5	0.73
(1,1094)	1:54:A:GLU:HG2	1:55:A:ASN:H	10	0.73
(1,1094)	1:54:A:GLU:HG3	1:55:A:ASN:H	10	0.73
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	6	0.73
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	6	0.73
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	6	0.73
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	17	0.73
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	17	0.73
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	17	0.73
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	10	0.73
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	10	0.73
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	10	0.73
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	18	0.73
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	18	0.73
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	18	0.73
(1,371)	1:6:A:THR:HG21	1:86:A:LYS:HB2	4	0.73
(1,371)	1:6:A:THR:HG22	1:86:A:LYS:HB2	4	0.73
(1,371)	1:6:A:THR:HG23	1:86:A:LYS:HB2	4	0.73
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	12	0.73
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	12	0.73
(1,95)	1:77:A:GLN:HA	1:80:A:LYS:HD2	12	0.73
(1,95)	1:77:A:GLN:HA	1:80:A:LYS:HD3	12	0.73
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	16	0.73
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	16	0.73
(1,58)	1:25:A:ARG:HD2	1:69:A:VAL:HA	7	0.73
(1,58)	1:25:A:ARG:HD3	1:69:A:VAL:HA	7	0.73
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG2	9	0.73
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG3	9	0.73
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	6	0.72
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	6	0.72
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	6	0.72
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	6	0.72
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	6	0.72
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	6	0.72
(1,1564)	1:34:A:GLU:HG2	1:36:A:SER:H	14	0.72
(1,1564)	1:34:A:GLU:HG3	1:36:A:SER:H	14	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	9	0.72
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	9	0.72
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	9	0.72
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	9	0.72
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	9	0.72
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	9	0.72
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD2	19	0.72
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD3	19	0.72
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG2	13	0.72
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG3	13	0.72
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG2	18	0.72
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG3	18	0.72
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	9	0.72
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	9	0.72
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	20	0.72
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	20	0.72
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG2	19	0.72
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG3	19	0.72
(1,1094)	1:54:A:GLU:HG2	1:55:A:ASN:H	1	0.72
(1,1094)	1:54:A:GLU:HG3	1:55:A:ASN:H	1	0.72
(1,1094)	1:54:A:GLU:HG2	1:55:A:ASN:H	18	0.72
(1,1094)	1:54:A:GLU:HG3	1:55:A:ASN:H	18	0.72
(1,952)	1:39:A:ILE:HG21	1:40:A:SER:H	12	0.72
(1,952)	1:39:A:ILE:HG22	1:40:A:SER:H	12	0.72
(1,952)	1:39:A:ILE:HG23	1:40:A:SER:H	12	0.72
(1,919)	1:37:A:ILE:HG12	1:67:A:ASP:H	18	0.72
(1,919)	1:37:A:ILE:HG13	1:67:A:ASP:H	18	0.72
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	15	0.72
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	15	0.72
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	15	0.72
(1,834)	1:39:A:ILE:HD11	1:53:A:GLN:H	16	0.72
(1,834)	1:39:A:ILE:HD12	1:53:A:GLN:H	16	0.72
(1,834)	1:39:A:ILE:HD13	1:53:A:GLN:H	16	0.72
(1,782)	1:21:A:ILE:HD11	1:22:A:SER:H	19	0.72
(1,782)	1:21:A:ILE:HD12	1:22:A:SER:H	19	0.72
(1,782)	1:21:A:ILE:HD13	1:22:A:SER:H	19	0.72
(1,611)	1:6:A:THR:HG21	1:7:A:VAL:H	17	0.72
(1,611)	1:6:A:THR:HG22	1:7:A:VAL:H	17	0.72
(1,611)	1:6:A:THR:HG23	1:7:A:VAL:H	17	0.72
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG21	1	0.72
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG22	1	0.72
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG23	1	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG21	1	0.72
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG22	1	0.72
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG23	1	0.72
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG21	1	0.72
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG22	1	0.72
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG23	1	0.72
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB1	8	0.72
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB2	8	0.72
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB3	8	0.72
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB1	8	0.72
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB2	8	0.72
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB3	8	0.72
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB1	8	0.72
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB2	8	0.72
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB3	8	0.72
(1,427)	1:21:A:ILE:HG21	1:37:A:ILE:HB	13	0.72
(1,427)	1:21:A:ILE:HG22	1:37:A:ILE:HB	13	0.72
(1,427)	1:21:A:ILE:HG23	1:37:A:ILE:HB	13	0.72
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	6	0.72
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	6	0.72
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE2	5	0.72
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE3	5	0.72
(1,112)	1:54:A:GLU:HG2	1:55:A:ASN:HA	1	0.72
(1,112)	1:54:A:GLU:HG3	1:55:A:ASN:HA	1	0.72
(1,1624)	1:61:A:VAL:HG11	1:78:A:LEU:HA	20	0.71
(1,1624)	1:61:A:VAL:HG12	1:78:A:LEU:HA	20	0.71
(1,1624)	1:61:A:VAL:HG13	1:78:A:LEU:HA	20	0.71
(1,1624)	1:61:A:VAL:HG21	1:78:A:LEU:HA	20	0.71
(1,1624)	1:61:A:VAL:HG22	1:78:A:LEU:HA	20	0.71
(1,1624)	1:61:A:VAL:HG23	1:78:A:LEU:HA	20	0.71
(1,1484)	1:60:A:MET:HE1	1:64:A:VAL:H	14	0.71
(1,1484)	1:60:A:MET:HE2	1:64:A:VAL:H	14	0.71
(1,1484)	1:60:A:MET:HE3	1:64:A:VAL:H	14	0.71
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG2	3	0.71
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG3	3	0.71
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG2	13	0.71
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG3	13	0.71
(1,1094)	1:54:A:GLU:HG2	1:55:A:ASN:H	12	0.71
(1,1094)	1:54:A:GLU:HG3	1:55:A:ASN:H	12	0.71
(1,1094)	1:54:A:GLU:HG2	1:55:A:ASN:H	15	0.71
(1,1094)	1:54:A:GLU:HG3	1:55:A:ASN:H	15	0.71
(1,917)	1:37:A:ILE:HG12	1:66:A:MET:H	11	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,917)	1:37:A:ILE:HG13	1:66:A:MET:H	11	0.71
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE2	15	0.71
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE3	15	0.71
(1,611)	1:6:A:THR:HG21	1:7:A:VAL:H	9	0.71
(1,611)	1:6:A:THR:HG22	1:7:A:VAL:H	9	0.71
(1,611)	1:6:A:THR:HG23	1:7:A:VAL:H	9	0.71
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG2	4	0.71
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG3	4	0.71
(1,534)	1:37:A:ILE:HG12	1:66:A:MET:HA	6	0.71
(1,534)	1:37:A:ILE:HG13	1:66:A:MET:HA	6	0.71
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	1	0.71
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	1	0.71
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	1	0.71
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	2	0.71
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	2	0.71
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	2	0.71
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	2	0.71
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	2	0.71
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	2	0.71
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	2	0.71
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	2	0.71
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	2	0.71
(1,313)	1:52:A:LEU:HD11	1:89:A:ILE:HB	3	0.71
(1,313)	1:52:A:LEU:HD12	1:89:A:ILE:HB	3	0.71
(1,313)	1:52:A:LEU:HD13	1:89:A:ILE:HB	3	0.71
(1,290)	1:44:A:LYS:HD2	1:49:A:GLU:HB3	11	0.71
(1,290)	1:44:A:LYS:HD3	1:49:A:GLU:HB3	11	0.71
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG2	6	0.71
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG3	6	0.71
(1,112)	1:54:A:GLU:HG2	1:55:A:ASN:HA	3	0.71
(1,112)	1:54:A:GLU:HG3	1:55:A:ASN:HA	3	0.71
(1,112)	1:54:A:GLU:HG2	1:55:A:ASN:HA	19	0.71
(1,112)	1:54:A:GLU:HG3	1:55:A:ASN:HA	19	0.71
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG21	10	0.71
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG22	10	0.71
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG23	10	0.71
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	17	0.7
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	17	0.7
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	17	0.7
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	17	0.7
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	17	0.7
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	17	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD2	5	0.7
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD3	5	0.7
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD2	7	0.7
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD3	7	0.7
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	7	0.7
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	7	0.7
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	7	0.7
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	6	0.7
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	6	0.7
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	3	0.7
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	3	0.7
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	3	0.7
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD11	1	0.7
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD12	1	0.7
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD13	1	0.7
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD11	4	0.7
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD12	4	0.7
(1,623)	1:7:A:VAL:H	1:87:A:ILE:HD13	4	0.7
(1,358)	1:5:A:HIS:H	1:88:A:THR:HG21	5	0.7
(1,358)	1:5:A:HIS:H	1:88:A:THR:HG22	5	0.7
(1,358)	1:5:A:HIS:H	1:88:A:THR:HG23	5	0.7
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	1	0.7
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	1	0.7
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG2	8	0.7
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG3	8	0.7
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	15	0.7
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	15	0.7
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	15	0.7
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG2	5	0.69
(1,1256)	1:70:A:GLU:H	1:70:A:GLU:HG3	5	0.69
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	12	0.69
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	12	0.69
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	12	0.69
(1,1127)	1:58:A:VAL:HG21	1:88:A:THR:H	8	0.69
(1,1127)	1:58:A:VAL:HG22	1:88:A:THR:H	8	0.69
(1,1127)	1:58:A:VAL:HG23	1:88:A:THR:H	8	0.69
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	8	0.69
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	8	0.69
(1,923)	1:37:A:ILE:HG12	1:69:A:VAL:H	5	0.69
(1,923)	1:37:A:ILE:HG13	1:69:A:VAL:H	5	0.69
(1,917)	1:37:A:ILE:HG12	1:66:A:MET:H	14	0.69
(1,917)	1:37:A:ILE:HG13	1:66:A:MET:H	14	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG12	13	0.69
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG13	13	0.69
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	7	0.69
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	7	0.69
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	7	0.69
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG11	2	0.69
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG12	2	0.69
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG13	2	0.69
(1,444)	1:21:A:ILE:HD11	1:74:A:ALA:H	15	0.69
(1,444)	1:21:A:ILE:HD12	1:74:A:ALA:H	15	0.69
(1,444)	1:21:A:ILE:HD13	1:74:A:ALA:H	15	0.69
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG2	20	0.69
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG3	20	0.69
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG2	20	0.69
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG3	20	0.69
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG2	20	0.69
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG3	20	0.69
(1,413)	1:21:A:ILE:HG21	1:38:A:VAL:H	8	0.69
(1,413)	1:21:A:ILE:HG22	1:38:A:VAL:H	8	0.69
(1,413)	1:21:A:ILE:HG23	1:38:A:VAL:H	8	0.69
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	1	0.69
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	1	0.69
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	1	0.69
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	1	0.69
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	1	0.69
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	1	0.69
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	1	0.69
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	1	0.69
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	1	0.69
(1,328)	1:43:A:LEU:HD11	1:47:A:PRO:HG2	11	0.69
(1,328)	1:43:A:LEU:HD12	1:47:A:PRO:HG2	11	0.69
(1,328)	1:43:A:LEU:HD13	1:47:A:PRO:HG2	11	0.69
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	2	0.69
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	2	0.69
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	6	0.69
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	6	0.69
(1,112)	1:54:A:GLU:HG2	1:55:A:ASN:HA	10	0.69
(1,112)	1:54:A:GLU:HG3	1:55:A:ASN:HA	10	0.69
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG2	20	0.69
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG3	20	0.69
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	9	0.68
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	9	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	9	0.68
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	9	0.68
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	9	0.68
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	9	0.68
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG2	18	0.68
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG3	18	0.68
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	20	0.68
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	20	0.68
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	20	0.68
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB2	20	0.68
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB3	20	0.68
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG2	16	0.68
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG3	16	0.68
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG2	4	0.68
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG3	4	0.68
(1,927)	1:37:A:ILE:HD11	1:68:A:ASN:H	12	0.68
(1,927)	1:37:A:ILE:HD12	1:68:A:ASN:H	12	0.68
(1,927)	1:37:A:ILE:HD13	1:68:A:ASN:H	12	0.68
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	7	0.68
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	7	0.68
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	7	0.68
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	13	0.68
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	13	0.68
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	13	0.68
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	19	0.68
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	19	0.68
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	19	0.68
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG2	3	0.68
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG3	3	0.68
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG2	13	0.68
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG3	13	0.68
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	2	0.68
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	2	0.68
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	2	0.68
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	17	0.68
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	17	0.68
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	17	0.68
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	4	0.68
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	4	0.68
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	4	0.68
(1,134)	1:35:A:THR:HG21	1:68:A:ASN:HA	5	0.68
(1,134)	1:35:A:THR:HG22	1:68:A:ASN:HA	5	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,134)	1:35:A:THR:HG23	1:68:A:ASN:HA	5	0.68
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG2	18	0.68
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG3	18	0.68
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD21	13	0.68
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD22	13	0.68
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD23	13	0.68
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	8	0.67
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	8	0.67
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	8	0.67
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	8	0.67
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	8	0.67
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	8	0.67
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD11	20	0.67
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD12	20	0.67
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD13	20	0.67
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD11	20	0.67
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD12	20	0.67
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD13	20	0.67
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB2	8	0.67
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB3	8	0.67
(1,1505)	1:7:A:VAL:HG11	1:87:A:ILE:H	10	0.67
(1,1505)	1:7:A:VAL:HG12	1:87:A:ILE:H	10	0.67
(1,1505)	1:7:A:VAL:HG13	1:87:A:ILE:H	10	0.67
(1,1505)	1:7:A:VAL:HG21	1:87:A:ILE:H	10	0.67
(1,1505)	1:7:A:VAL:HG22	1:87:A:ILE:H	10	0.67
(1,1505)	1:7:A:VAL:HG23	1:87:A:ILE:H	10	0.67
(1,1372)	1:79:A:ARG:HD2	1:80:A:LYS:H	17	0.67
(1,1372)	1:79:A:ARG:HD3	1:80:A:LYS:H	17	0.67
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG2	2	0.67
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG3	2	0.67
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	10	0.67
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	10	0.67
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	10	0.67
(1,939)	1:39:A:ILE:H	1:39:A:ILE:HD11	5	0.67
(1,939)	1:39:A:ILE:H	1:39:A:ILE:HD12	5	0.67
(1,939)	1:39:A:ILE:H	1:39:A:ILE:HD13	5	0.67
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	17	0.67
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	17	0.67
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	17	0.67
(1,762)	1:20:A:ALA:H	1:39:A:ILE:HG21	5	0.67
(1,762)	1:20:A:ALA:H	1:39:A:ILE:HG22	5	0.67
(1,762)	1:20:A:ALA:H	1:39:A:ILE:HG23	5	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,611)	1:6:A:THR:HG21	1:7:A:VAL:H	4	0.67
(1,611)	1:6:A:THR:HG22	1:7:A:VAL:H	4	0.67
(1,611)	1:6:A:THR:HG23	1:7:A:VAL:H	4	0.67
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG2	20	0.67
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG3	20	0.67
(1,537)	1:8:A:THR:HG21	1:84:A:ASN:HA	3	0.67
(1,537)	1:8:A:THR:HG22	1:84:A:ASN:HA	3	0.67
(1,537)	1:8:A:THR:HG23	1:84:A:ASN:HA	3	0.67
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG21	12	0.67
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG22	12	0.67
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG23	12	0.67
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG21	12	0.67
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG22	12	0.67
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG23	12	0.67
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG21	12	0.67
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG22	12	0.67
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG23	12	0.67
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB1	1	0.67
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB2	1	0.67
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB3	1	0.67
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB1	1	0.67
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB2	1	0.67
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB3	1	0.67
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB1	1	0.67
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB2	1	0.67
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB3	1	0.67
(1,383)	1:6:A:THR:HG21	1:60:A:MET:HB3	15	0.67
(1,383)	1:6:A:THR:HG22	1:60:A:MET:HB3	15	0.67
(1,383)	1:6:A:THR:HG23	1:60:A:MET:HB3	15	0.67
(1,112)	1:54:A:GLU:HG2	1:55:A:ASN:HA	14	0.67
(1,112)	1:54:A:GLU:HG3	1:55:A:ASN:HA	14	0.67
(1,112)	1:54:A:GLU:HG2	1:55:A:ASN:HA	18	0.67
(1,112)	1:54:A:GLU:HG3	1:55:A:ASN:HA	18	0.67
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	7	0.67
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	7	0.67
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB2	12	0.66
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB3	12	0.66
(1,1505)	1:7:A:VAL:HG11	1:87:A:ILE:H	20	0.66
(1,1505)	1:7:A:VAL:HG12	1:87:A:ILE:H	20	0.66
(1,1505)	1:7:A:VAL:HG13	1:87:A:ILE:H	20	0.66
(1,1505)	1:7:A:VAL:HG21	1:87:A:ILE:H	20	0.66
(1,1505)	1:7:A:VAL:HG22	1:87:A:ILE:H	20	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1505)	1:7:A:VAL:HG23	1:87:A:ILE:H	20	0.66
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE2	11	0.66
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE3	11	0.66
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	10	0.66
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	10	0.66
(1,1094)	1:54:A:GLU:HG2	1:55:A:ASN:H	16	0.66
(1,1094)	1:54:A:GLU:HG3	1:55:A:ASN:H	16	0.66
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG2	16	0.66
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG3	16	0.66
(1,916)	1:37:A:ILE:HG21	1:38:A:VAL:H	4	0.66
(1,916)	1:37:A:ILE:HG22	1:38:A:VAL:H	4	0.66
(1,916)	1:37:A:ILE:HG23	1:38:A:VAL:H	4	0.66
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD11	17	0.66
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD12	17	0.66
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD13	17	0.66
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB1	8	0.66
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB2	8	0.66
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB3	8	0.66
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD11	10	0.66
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD12	10	0.66
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD13	10	0.66
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG2	16	0.66
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG3	16	0.66
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	8	0.66
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	8	0.66
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	8	0.66
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	19	0.66
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	19	0.66
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	19	0.66
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	17	0.66
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	17	0.66
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	17	0.66
(1,313)	1:52:A:LEU:HD11	1:89:A:ILE:HB	8	0.66
(1,313)	1:52:A:LEU:HD12	1:89:A:ILE:HB	8	0.66
(1,313)	1:52:A:LEU:HD13	1:89:A:ILE:HB	8	0.66
(1,121)	1:21:A:ILE:HD11	1:74:A:ALA:HA	14	0.66
(1,121)	1:21:A:ILE:HD12	1:74:A:ALA:HA	14	0.66
(1,121)	1:21:A:ILE:HD13	1:74:A:ALA:HA	14	0.66
(1,64)	1:21:A:ILE:HD11	1:39:A:ILE:HA	19	0.66
(1,64)	1:21:A:ILE:HD12	1:39:A:ILE:HA	19	0.66
(1,64)	1:21:A:ILE:HD13	1:39:A:ILE:HA	19	0.66
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB2	14	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB3	14	0.65
(1,1505)	1:7:A:VAL:HG11	1:87:A:ILE:H	6	0.65
(1,1505)	1:7:A:VAL:HG12	1:87:A:ILE:H	6	0.65
(1,1505)	1:7:A:VAL:HG13	1:87:A:ILE:H	6	0.65
(1,1505)	1:7:A:VAL:HG21	1:87:A:ILE:H	6	0.65
(1,1505)	1:7:A:VAL:HG22	1:87:A:ILE:H	6	0.65
(1,1505)	1:7:A:VAL:HG23	1:87:A:ILE:H	6	0.65
(1,1505)	1:7:A:VAL:HG11	1:87:A:ILE:H	13	0.65
(1,1505)	1:7:A:VAL:HG12	1:87:A:ILE:H	13	0.65
(1,1505)	1:7:A:VAL:HG13	1:87:A:ILE:H	13	0.65
(1,1505)	1:7:A:VAL:HG21	1:87:A:ILE:H	13	0.65
(1,1505)	1:7:A:VAL:HG22	1:87:A:ILE:H	13	0.65
(1,1505)	1:7:A:VAL:HG23	1:87:A:ILE:H	13	0.65
(1,1484)	1:60:A:MET:HE1	1:64:A:VAL:H	10	0.65
(1,1484)	1:60:A:MET:HE2	1:64:A:VAL:H	10	0.65
(1,1484)	1:60:A:MET:HE3	1:64:A:VAL:H	10	0.65
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE2	10	0.65
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE3	10	0.65
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD2	20	0.65
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD3	20	0.65
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	6	0.65
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	6	0.65
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	6	0.65
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	13	0.65
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	13	0.65
(1,1094)	1:54:A:GLU:HG2	1:55:A:ASN:H	14	0.65
(1,1094)	1:54:A:GLU:HG3	1:55:A:ASN:H	14	0.65
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG2	9	0.65
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG3	9	0.65
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG2	6	0.65
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG3	6	0.65
(1,856)	1:25:A:ARG:HG2	1:70:A:GLU:H	12	0.65
(1,856)	1:25:A:ARG:HG3	1:70:A:GLU:H	12	0.65
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD11	2	0.65
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD12	2	0.65
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD13	2	0.65
(1,470)	1:37:A:ILE:HD11	1:69:A:VAL:HG21	6	0.65
(1,470)	1:37:A:ILE:HD11	1:69:A:VAL:HG22	6	0.65
(1,470)	1:37:A:ILE:HD11	1:69:A:VAL:HG23	6	0.65
(1,470)	1:37:A:ILE:HD12	1:69:A:VAL:HG21	6	0.65
(1,470)	1:37:A:ILE:HD12	1:69:A:VAL:HG22	6	0.65
(1,470)	1:37:A:ILE:HD12	1:69:A:VAL:HG23	6	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,470)	1:37:A:ILE:HD13	1:69:A:VAL:HG21	6	0.65
(1,470)	1:37:A:ILE:HD13	1:69:A:VAL:HG22	6	0.65
(1,470)	1:37:A:ILE:HD13	1:69:A:VAL:HG23	6	0.65
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	8	0.65
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	8	0.65
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	8	0.65
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG2	20	0.65
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG3	20	0.65
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG2	20	0.65
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG3	20	0.65
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG2	20	0.65
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG3	20	0.65
(1,208)	1:39:A:ILE:HD11	1:56:A:ASP:HB3	9	0.65
(1,208)	1:39:A:ILE:HD12	1:56:A:ASP:HB3	9	0.65
(1,208)	1:39:A:ILE:HD13	1:56:A:ASP:HB3	9	0.65
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD11	11	0.65
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD12	11	0.65
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD13	11	0.65
(1,147)	1:39:A:ILE:HD11	1:52:A:LEU:HA	5	0.65
(1,147)	1:39:A:ILE:HD12	1:52:A:LEU:HA	5	0.65
(1,147)	1:39:A:ILE:HD13	1:52:A:LEU:HA	5	0.65
(1,58)	1:25:A:ARG:HD2	1:69:A:VAL:HA	6	0.65
(1,58)	1:25:A:ARG:HD3	1:69:A:VAL:HA	6	0.65
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB2	19	0.64
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB3	19	0.64
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB2	19	0.64
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB3	19	0.64
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	11	0.64
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	11	0.64
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	11	0.64
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	11	0.64
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	11	0.64
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	11	0.64
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	16	0.64
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	16	0.64
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	16	0.64
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	16	0.64
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	16	0.64
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	16	0.64
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	19	0.64
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	19	0.64
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	19	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	19	0.64
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	19	0.64
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	19	0.64
(1,1504)	1:7:A:VAL:HG11	1:51:A:GLN:HA	2	0.64
(1,1504)	1:7:A:VAL:HG12	1:51:A:GLN:HA	2	0.64
(1,1504)	1:7:A:VAL:HG13	1:51:A:GLN:HA	2	0.64
(1,1504)	1:7:A:VAL:HG21	1:51:A:GLN:HA	2	0.64
(1,1504)	1:7:A:VAL:HG22	1:51:A:GLN:HA	2	0.64
(1,1504)	1:7:A:VAL:HG23	1:51:A:GLN:HA	2	0.64
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	8	0.64
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	8	0.64
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	8	0.64
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	8	0.64
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	8	0.64
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	8	0.64
(1,1445)	1:90:A:ARG:H	1:91:A:ARG:HG2	4	0.64
(1,1445)	1:90:A:ARG:H	1:91:A:ARG:HG3	4	0.64
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD2	14	0.64
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD3	14	0.64
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG2	10	0.64
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG3	10	0.64
(1,1007)	1:44:A:LYS:H	1:44:A:LYS:HE2	11	0.64
(1,1007)	1:44:A:LYS:H	1:44:A:LYS:HE3	11	0.64
(1,929)	1:37:A:ILE:HD11	1:70:A:GLU:H	5	0.64
(1,929)	1:37:A:ILE:HD12	1:70:A:GLU:H	5	0.64
(1,929)	1:37:A:ILE:HD13	1:70:A:GLU:H	5	0.64
(1,783)	1:21:A:ILE:HD11	1:38:A:VAL:H	1	0.64
(1,783)	1:21:A:ILE:HD12	1:38:A:VAL:H	1	0.64
(1,783)	1:21:A:ILE:HD13	1:38:A:VAL:H	1	0.64
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD11	15	0.64
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD12	15	0.64
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD13	15	0.64
(1,717)	1:16:A:GLY:H	1:43:A:LEU:HD11	14	0.64
(1,717)	1:16:A:GLY:H	1:43:A:LEU:HD12	14	0.64
(1,717)	1:16:A:GLY:H	1:43:A:LEU:HD13	14	0.64
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE2	8	0.64
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE3	8	0.64
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE2	12	0.64
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE3	12	0.64
(1,413)	1:21:A:ILE:HG21	1:38:A:VAL:H	1	0.64
(1,413)	1:21:A:ILE:HG22	1:38:A:VAL:H	1	0.64
(1,413)	1:21:A:ILE:HG23	1:38:A:VAL:H	1	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB1	15	0.64
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB2	15	0.64
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB3	15	0.64
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB1	15	0.64
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB2	15	0.64
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB3	15	0.64
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB1	15	0.64
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB2	15	0.64
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB3	15	0.64
(1,290)	1:44:A:LYS:HD2	1:49:A:GLU:HB3	4	0.64
(1,290)	1:44:A:LYS:HD3	1:49:A:GLU:HB3	4	0.64
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG2	6	0.64
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG3	6	0.64
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG2	6	0.64
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG3	6	0.64
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG2	6	0.64
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG3	6	0.64
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	10	0.64
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	10	0.64
(1,219)	1:25:A:ARG:HG2	1:70:A:GLU:HG2	12	0.64
(1,219)	1:25:A:ARG:HG2	1:70:A:GLU:HG3	12	0.64
(1,219)	1:25:A:ARG:HG3	1:70:A:GLU:HG2	12	0.64
(1,219)	1:25:A:ARG:HG3	1:70:A:GLU:HG3	12	0.64
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG2	7	0.64
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG3	7	0.64
(1,112)	1:54:A:GLU:HG2	1:55:A:ASN:HA	15	0.64
(1,112)	1:54:A:GLU:HG3	1:55:A:ASN:HA	15	0.64
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	5	0.63
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	5	0.63
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	5	0.63
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	5	0.63
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	5	0.63
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	5	0.63
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	18	0.63
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	18	0.63
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	18	0.63
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	18	0.63
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	18	0.63
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	18	0.63
(1,1574)	1:38:A:VAL:HG11	1:58:A:VAL:H	5	0.63
(1,1574)	1:38:A:VAL:HG12	1:58:A:VAL:H	5	0.63
(1,1574)	1:38:A:VAL:HG13	1:58:A:VAL:H	5	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1574)	1:38:A:VAL:HG21	1:58:A:VAL:H	5	0.63
(1,1574)	1:38:A:VAL:HG22	1:58:A:VAL:H	5	0.63
(1,1574)	1:38:A:VAL:HG23	1:58:A:VAL:H	5	0.63
(1,1505)	1:7:A:VAL:HG11	1:87:A:ILE:H	7	0.63
(1,1505)	1:7:A:VAL:HG12	1:87:A:ILE:H	7	0.63
(1,1505)	1:7:A:VAL:HG13	1:87:A:ILE:H	7	0.63
(1,1505)	1:7:A:VAL:HG21	1:87:A:ILE:H	7	0.63
(1,1505)	1:7:A:VAL:HG22	1:87:A:ILE:H	7	0.63
(1,1505)	1:7:A:VAL:HG23	1:87:A:ILE:H	7	0.63
(1,1484)	1:60:A:MET:HE1	1:64:A:VAL:H	8	0.63
(1,1484)	1:60:A:MET:HE2	1:64:A:VAL:H	8	0.63
(1,1484)	1:60:A:MET:HE3	1:64:A:VAL:H	8	0.63
(1,1484)	1:60:A:MET:HE1	1:64:A:VAL:H	15	0.63
(1,1484)	1:60:A:MET:HE2	1:64:A:VAL:H	15	0.63
(1,1484)	1:60:A:MET:HE3	1:64:A:VAL:H	15	0.63
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD2	16	0.63
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD3	16	0.63
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG2	1	0.63
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG3	1	0.63
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG2	9	0.63
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG3	9	0.63
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	13	0.63
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	13	0.63
(1,916)	1:37:A:ILE:HG21	1:38:A:VAL:H	6	0.63
(1,916)	1:37:A:ILE:HG22	1:38:A:VAL:H	6	0.63
(1,916)	1:37:A:ILE:HG23	1:38:A:VAL:H	6	0.63
(1,794)	1:22:A:SER:H	1:74:A:ALA:HB1	3	0.63
(1,794)	1:22:A:SER:H	1:74:A:ALA:HB2	3	0.63
(1,794)	1:22:A:SER:H	1:74:A:ALA:HB3	3	0.63
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG2	11	0.63
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG3	11	0.63
(1,461)	1:39:A:ILE:HD11	1:56:A:ASP:H	3	0.63
(1,461)	1:39:A:ILE:HD12	1:56:A:ASP:H	3	0.63
(1,461)	1:39:A:ILE:HD13	1:56:A:ASP:H	3	0.63
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	18	0.63
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	18	0.63
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	18	0.63
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	18	0.63
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	18	0.63
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	18	0.63
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG21	14	0.63
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG22	14	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG23	14	0.63
(1,313)	1:52:A:LEU:HD11	1:89:A:ILE:HB	5	0.63
(1,313)	1:52:A:LEU:HD12	1:89:A:ILE:HB	5	0.63
(1,313)	1:52:A:LEU:HD13	1:89:A:ILE:HB	5	0.63
(1,294)	1:4:A:GLN:HB2	1:90:A:ARG:HG2	4	0.63
(1,294)	1:4:A:GLN:HB2	1:90:A:ARG:HG3	4	0.63
(1,294)	1:4:A:GLN:HB3	1:90:A:ARG:HG2	4	0.63
(1,294)	1:4:A:GLN:HB3	1:90:A:ARG:HG3	4	0.63
(1,290)	1:44:A:LYS:HD2	1:49:A:GLU:HB3	12	0.63
(1,290)	1:44:A:LYS:HD3	1:49:A:GLU:HB3	12	0.63
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG2	14	0.63
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG3	14	0.63
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG2	14	0.63
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG3	14	0.63
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	2	0.63
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	2	0.63
(1,192)	1:8:A:THR:HG21	1:84:A:ASN:HB3	18	0.63
(1,192)	1:8:A:THR:HG22	1:84:A:ASN:HB3	18	0.63
(1,192)	1:8:A:THR:HG23	1:84:A:ASN:HB3	18	0.63
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	5	0.63
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	5	0.63
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	14	0.63
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	14	0.63
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG21	19	0.63
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG22	19	0.63
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG23	19	0.63
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	2	0.62
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	2	0.62
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	2	0.62
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	2	0.62
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	2	0.62
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	2	0.62
(1,1492)	1:2:A:TRP:HB2	1:91:A:ARG:H	11	0.62
(1,1492)	1:2:A:TRP:HB3	1:91:A:ARG:H	11	0.62
(1,1484)	1:60:A:MET:HE1	1:64:A:VAL:H	2	0.62
(1,1484)	1:60:A:MET:HE2	1:64:A:VAL:H	2	0.62
(1,1484)	1:60:A:MET:HE3	1:64:A:VAL:H	2	0.62
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG2	11	0.62
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG3	11	0.62
(1,1269)	1:70:A:GLU:HG2	1:73:A:PHE:H	4	0.62
(1,1269)	1:70:A:GLU:HG3	1:73:A:PHE:H	4	0.62
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	13	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	13	0.62
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	13	0.62
(1,930)	1:37:A:ILE:HD11	1:71:A:HIS:H	7	0.62
(1,930)	1:37:A:ILE:HD12	1:71:A:HIS:H	7	0.62
(1,930)	1:37:A:ILE:HD13	1:71:A:HIS:H	7	0.62
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD11	7	0.62
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD12	7	0.62
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD13	7	0.62
(1,782)	1:21:A:ILE:HD11	1:22:A:SER:H	20	0.62
(1,782)	1:21:A:ILE:HD12	1:22:A:SER:H	20	0.62
(1,782)	1:21:A:ILE:HD13	1:22:A:SER:H	20	0.62
(1,641)	1:8:A:THR:HG21	1:9:A:LEU:H	18	0.62
(1,641)	1:8:A:THR:HG22	1:9:A:LEU:H	18	0.62
(1,641)	1:8:A:THR:HG23	1:9:A:LEU:H	18	0.62
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	15	0.62
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	15	0.62
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	15	0.62
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG11	20	0.62
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG12	20	0.62
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG13	20	0.62
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG11	20	0.62
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG12	20	0.62
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG13	20	0.62
(1,386)	1:61:A:VAL:HG11	1:87:A:ILE:HG12	2	0.62
(1,386)	1:61:A:VAL:HG11	1:87:A:ILE:HG13	2	0.62
(1,386)	1:61:A:VAL:HG12	1:87:A:ILE:HG12	2	0.62
(1,386)	1:61:A:VAL:HG12	1:87:A:ILE:HG13	2	0.62
(1,386)	1:61:A:VAL:HG13	1:87:A:ILE:HG12	2	0.62
(1,386)	1:61:A:VAL:HG13	1:87:A:ILE:HG13	2	0.62
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG2	18	0.62
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG3	18	0.62
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG2	18	0.62
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG3	18	0.62
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG2	18	0.62
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG3	18	0.62
(1,317)	1:78:A:LEU:HD21	1:79:A:ARG:HG2	16	0.62
(1,317)	1:78:A:LEU:HD21	1:79:A:ARG:HG3	16	0.62
(1,317)	1:78:A:LEU:HD22	1:79:A:ARG:HG2	16	0.62
(1,317)	1:78:A:LEU:HD22	1:79:A:ARG:HG3	16	0.62
(1,317)	1:78:A:LEU:HD23	1:79:A:ARG:HG2	16	0.62
(1,317)	1:78:A:LEU:HD23	1:79:A:ARG:HG3	16	0.62
(1,313)	1:52:A:LEU:HD11	1:89:A:ILE:HB	11	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,313)	1:52:A:LEU:HD12	1:89:A:ILE:HB	11	0.62
(1,313)	1:52:A:LEU:HD13	1:89:A:ILE:HB	11	0.62
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG21	14	0.62
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG22	14	0.62
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG23	14	0.62
(1,1603)	1:52:A:LEU:HD11	1:87:A:ILE:HD11	8	0.61
(1,1603)	1:52:A:LEU:HD11	1:87:A:ILE:HD12	8	0.61
(1,1603)	1:52:A:LEU:HD11	1:87:A:ILE:HD13	8	0.61
(1,1603)	1:52:A:LEU:HD12	1:87:A:ILE:HD11	8	0.61
(1,1603)	1:52:A:LEU:HD12	1:87:A:ILE:HD12	8	0.61
(1,1603)	1:52:A:LEU:HD12	1:87:A:ILE:HD13	8	0.61
(1,1603)	1:52:A:LEU:HD13	1:87:A:ILE:HD11	8	0.61
(1,1603)	1:52:A:LEU:HD13	1:87:A:ILE:HD12	8	0.61
(1,1603)	1:52:A:LEU:HD13	1:87:A:ILE:HD13	8	0.61
(1,1603)	1:52:A:LEU:HD21	1:87:A:ILE:HD11	8	0.61
(1,1603)	1:52:A:LEU:HD21	1:87:A:ILE:HD12	8	0.61
(1,1603)	1:52:A:LEU:HD21	1:87:A:ILE:HD13	8	0.61
(1,1603)	1:52:A:LEU:HD22	1:87:A:ILE:HD11	8	0.61
(1,1603)	1:52:A:LEU:HD22	1:87:A:ILE:HD12	8	0.61
(1,1603)	1:52:A:LEU:HD22	1:87:A:ILE:HD13	8	0.61
(1,1603)	1:52:A:LEU:HD23	1:87:A:ILE:HD11	8	0.61
(1,1603)	1:52:A:LEU:HD23	1:87:A:ILE:HD12	8	0.61
(1,1603)	1:52:A:LEU:HD23	1:87:A:ILE:HD13	8	0.61
(1,1564)	1:34:A:GLU:HG2	1:36:A:SER:H	19	0.61
(1,1564)	1:34:A:GLU:HG3	1:36:A:SER:H	19	0.61
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE2	8	0.61
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE3	8	0.61
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	12	0.61
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	12	0.61
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	12	0.61
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	12	0.61
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	12	0.61
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	12	0.61
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	4	0.61
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	4	0.61
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG2	15	0.61
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG3	15	0.61
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	19	0.61
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	19	0.61
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	19	0.61
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	5	0.61
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	5	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	5	0.61
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	17	0.61
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	17	0.61
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	17	0.61
(1,1094)	1:54:A:GLU:HG2	1:55:A:ASN:H	7	0.61
(1,1094)	1:54:A:GLU:HG3	1:55:A:ASN:H	7	0.61
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG2	14	0.61
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG3	14	0.61
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	7	0.61
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	7	0.61
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	7	0.61
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	2	0.61
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	2	0.61
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	2	0.61
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	15	0.61
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	15	0.61
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	15	0.61
(1,570)	1:3:A:GLU:HB2	1:91:A:ARG:H	6	0.61
(1,570)	1:3:A:GLU:HB3	1:91:A:ARG:H	6	0.61
(1,470)	1:37:A:ILE:HD11	1:69:A:VAL:HG21	16	0.61
(1,470)	1:37:A:ILE:HD11	1:69:A:VAL:HG22	16	0.61
(1,470)	1:37:A:ILE:HD11	1:69:A:VAL:HG23	16	0.61
(1,470)	1:37:A:ILE:HD12	1:69:A:VAL:HG21	16	0.61
(1,470)	1:37:A:ILE:HD12	1:69:A:VAL:HG22	16	0.61
(1,470)	1:37:A:ILE:HD12	1:69:A:VAL:HG23	16	0.61
(1,470)	1:37:A:ILE:HD13	1:69:A:VAL:HG21	16	0.61
(1,470)	1:37:A:ILE:HD13	1:69:A:VAL:HG22	16	0.61
(1,470)	1:37:A:ILE:HD13	1:69:A:VAL:HG23	16	0.61
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD2	12	0.61
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD3	12	0.61
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD2	12	0.61
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD3	12	0.61
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD2	12	0.61
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD3	12	0.61
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG2	20	0.61
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG3	20	0.61
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG21	3	0.61
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG22	3	0.61
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG23	3	0.61
(1,1626)	1:61:A:VAL:HG11	1:86:A:LYS:H	10	0.6
(1,1626)	1:61:A:VAL:HG12	1:86:A:LYS:H	10	0.6
(1,1626)	1:61:A:VAL:HG13	1:86:A:LYS:H	10	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1626)	1:61:A:VAL:HG21	1:86:A:LYS:H	10	0.6
(1,1626)	1:61:A:VAL:HG22	1:86:A:LYS:H	10	0.6
(1,1626)	1:61:A:VAL:HG23	1:86:A:LYS:H	10	0.6
(1,1626)	1:61:A:VAL:HG11	1:86:A:LYS:H	17	0.6
(1,1626)	1:61:A:VAL:HG12	1:86:A:LYS:H	17	0.6
(1,1626)	1:61:A:VAL:HG13	1:86:A:LYS:H	17	0.6
(1,1626)	1:61:A:VAL:HG21	1:86:A:LYS:H	17	0.6
(1,1626)	1:61:A:VAL:HG22	1:86:A:LYS:H	17	0.6
(1,1626)	1:61:A:VAL:HG23	1:86:A:LYS:H	17	0.6
(1,1505)	1:7:A:VAL:HG11	1:87:A:ILE:H	19	0.6
(1,1505)	1:7:A:VAL:HG12	1:87:A:ILE:H	19	0.6
(1,1505)	1:7:A:VAL:HG13	1:87:A:ILE:H	19	0.6
(1,1505)	1:7:A:VAL:HG21	1:87:A:ILE:H	19	0.6
(1,1505)	1:7:A:VAL:HG22	1:87:A:ILE:H	19	0.6
(1,1505)	1:7:A:VAL:HG23	1:87:A:ILE:H	19	0.6
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE2	11	0.6
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE3	11	0.6
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD2	8	0.6
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD3	8	0.6
(1,1268)	1:70:A:GLU:HG2	1:72:A:ALA:H	3	0.6
(1,1268)	1:70:A:GLU:HG3	1:72:A:ALA:H	3	0.6
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	5	0.6
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	5	0.6
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	5	0.6
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	3	0.6
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	3	0.6
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	3	0.6
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	18	0.6
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	18	0.6
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	18	0.6
(1,939)	1:39:A:ILE:H	1:39:A:ILE:HD11	12	0.6
(1,939)	1:39:A:ILE:H	1:39:A:ILE:HD12	12	0.6
(1,939)	1:39:A:ILE:H	1:39:A:ILE:HD13	12	0.6
(1,858)	1:25:A:ARG:HD2	1:27:A:ASN:H	3	0.6
(1,858)	1:25:A:ARG:HD3	1:27:A:ASN:H	3	0.6
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD11	3	0.6
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD12	3	0.6
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD13	3	0.6
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG21	8	0.6
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG22	8	0.6
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG23	8	0.6
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG21	20	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG22	20	0.6
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG23	20	0.6
(1,534)	1:37:A:ILE:HG12	1:66:A:MET:HA	4	0.6
(1,534)	1:37:A:ILE:HG13	1:66:A:MET:HA	4	0.6
(1,534)	1:37:A:ILE:HG12	1:66:A:MET:HA	5	0.6
(1,534)	1:37:A:ILE:HG13	1:66:A:MET:HA	5	0.6
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG2	9	0.6
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG3	9	0.6
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG2	9	0.6
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG3	9	0.6
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG2	9	0.6
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG3	9	0.6
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB1	6	0.6
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB2	6	0.6
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB3	6	0.6
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB1	6	0.6
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB2	6	0.6
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB3	6	0.6
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB1	6	0.6
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB2	6	0.6
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB3	6	0.6
(1,446)	1:21:A:ILE:HD11	1:75:A:VAL:HB	7	0.6
(1,446)	1:21:A:ILE:HD12	1:75:A:VAL:HB	7	0.6
(1,446)	1:21:A:ILE:HD13	1:75:A:VAL:HB	7	0.6
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	4	0.6
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	4	0.6
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	4	0.6
(1,294)	1:4:A:GLN:HB2	1:90:A:ARG:HG2	3	0.6
(1,294)	1:4:A:GLN:HB2	1:90:A:ARG:HG3	3	0.6
(1,294)	1:4:A:GLN:HB3	1:90:A:ARG:HG2	3	0.6
(1,294)	1:4:A:GLN:HB3	1:90:A:ARG:HG3	3	0.6
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG2	11	0.6
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG3	11	0.6
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG2	11	0.6
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG3	11	0.6
(1,1603)	1:52:A:LEU:HD11	1:87:A:ILE:HD11	9	0.59
(1,1603)	1:52:A:LEU:HD11	1:87:A:ILE:HD12	9	0.59
(1,1603)	1:52:A:LEU:HD11	1:87:A:ILE:HD13	9	0.59
(1,1603)	1:52:A:LEU:HD12	1:87:A:ILE:HD11	9	0.59
(1,1603)	1:52:A:LEU:HD12	1:87:A:ILE:HD12	9	0.59
(1,1603)	1:52:A:LEU:HD12	1:87:A:ILE:HD13	9	0.59
(1,1603)	1:52:A:LEU:HD13	1:87:A:ILE:HD11	9	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1603)	1:52:A:LEU:HD13	1:87:A:ILE:HD12	9	0.59
(1,1603)	1:52:A:LEU:HD13	1:87:A:ILE:HD13	9	0.59
(1,1603)	1:52:A:LEU:HD21	1:87:A:ILE:HD11	9	0.59
(1,1603)	1:52:A:LEU:HD21	1:87:A:ILE:HD12	9	0.59
(1,1603)	1:52:A:LEU:HD21	1:87:A:ILE:HD13	9	0.59
(1,1603)	1:52:A:LEU:HD22	1:87:A:ILE:HD11	9	0.59
(1,1603)	1:52:A:LEU:HD22	1:87:A:ILE:HD12	9	0.59
(1,1603)	1:52:A:LEU:HD22	1:87:A:ILE:HD13	9	0.59
(1,1603)	1:52:A:LEU:HD23	1:87:A:ILE:HD11	9	0.59
(1,1603)	1:52:A:LEU:HD23	1:87:A:ILE:HD12	9	0.59
(1,1603)	1:52:A:LEU:HD23	1:87:A:ILE:HD13	9	0.59
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB2	18	0.59
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB3	18	0.59
(1,1505)	1:7:A:VAL:HG11	1:87:A:ILE:H	18	0.59
(1,1505)	1:7:A:VAL:HG12	1:87:A:ILE:H	18	0.59
(1,1505)	1:7:A:VAL:HG13	1:87:A:ILE:H	18	0.59
(1,1505)	1:7:A:VAL:HG21	1:87:A:ILE:H	18	0.59
(1,1505)	1:7:A:VAL:HG22	1:87:A:ILE:H	18	0.59
(1,1505)	1:7:A:VAL:HG23	1:87:A:ILE:H	18	0.59
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD11	1	0.59
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD12	1	0.59
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD13	1	0.59
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD21	1	0.59
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD22	1	0.59
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD23	1	0.59
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE2	15	0.59
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE3	15	0.59
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	9	0.59
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	9	0.59
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	9	0.59
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	16	0.59
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	16	0.59
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	16	0.59
(1,1108)	1:57:A:ARG:H	1:57:A:ARG:HD2	2	0.59
(1,1108)	1:57:A:ARG:H	1:57:A:ARG:HD3	2	0.59
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG2	2	0.59
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG3	2	0.59
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	13	0.59
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	13	0.59
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	13	0.59
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	19	0.59
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	19	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,852)	1:25:A:ARG:HG2	1:26:A:ASP:H	4	0.59
(1,852)	1:25:A:ARG:HG3	1:26:A:ASP:H	4	0.59
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG21	7	0.59
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG22	7	0.59
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG23	7	0.59
(1,461)	1:39:A:ILE:HD11	1:56:A:ASP:H	6	0.59
(1,461)	1:39:A:ILE:HD12	1:56:A:ASP:H	6	0.59
(1,461)	1:39:A:ILE:HD13	1:56:A:ASP:H	6	0.59
(1,442)	1:89:A:ILE:HD11	1:91:A:ARG:HB3	15	0.59
(1,442)	1:89:A:ILE:HD12	1:91:A:ARG:HB3	15	0.59
(1,442)	1:89:A:ILE:HD13	1:91:A:ARG:HB3	15	0.59
(1,422)	1:69:A:VAL:HG21	1:73:A:PHE:HD1	4	0.59
(1,422)	1:69:A:VAL:HG21	1:73:A:PHE:HD2	4	0.59
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	2	0.59
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	2	0.59
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	2	0.59
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG21	8	0.59
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG22	8	0.59
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG23	8	0.59
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD2	16	0.59
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD3	16	0.59
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	5	0.59
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	5	0.59
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	5	0.59
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	5	0.59
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	3	0.59
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	3	0.59
(1,64)	1:21:A:ILE:HD11	1:39:A:ILE:HA	2	0.59
(1,64)	1:21:A:ILE:HD12	1:39:A:ILE:HA	2	0.59
(1,64)	1:21:A:ILE:HD13	1:39:A:ILE:HA	2	0.59
(1,1569)	1:38:A:VAL:HG11	1:39:A:ILE:HB	12	0.58
(1,1569)	1:38:A:VAL:HG12	1:39:A:ILE:HB	12	0.58
(1,1569)	1:38:A:VAL:HG13	1:39:A:ILE:HB	12	0.58
(1,1569)	1:38:A:VAL:HG21	1:39:A:ILE:HB	12	0.58
(1,1569)	1:38:A:VAL:HG22	1:39:A:ILE:HB	12	0.58
(1,1569)	1:38:A:VAL:HG23	1:39:A:ILE:HB	12	0.58
(1,1565)	1:36:A:SER:HB2	1:68:A:ASN:H	2	0.58
(1,1565)	1:36:A:SER:HB3	1:68:A:ASN:H	2	0.58
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG11	4	0.58
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG12	4	0.58
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG13	4	0.58
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG21	4	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG22	4	0.58
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG23	4	0.58
(1,1505)	1:7:A:VAL:HG11	1:87:A:ILE:H	8	0.58
(1,1505)	1:7:A:VAL:HG12	1:87:A:ILE:H	8	0.58
(1,1505)	1:7:A:VAL:HG13	1:87:A:ILE:H	8	0.58
(1,1505)	1:7:A:VAL:HG21	1:87:A:ILE:H	8	0.58
(1,1505)	1:7:A:VAL:HG22	1:87:A:ILE:H	8	0.58
(1,1505)	1:7:A:VAL:HG23	1:87:A:ILE:H	8	0.58
(1,1505)	1:7:A:VAL:HG11	1:87:A:ILE:H	16	0.58
(1,1505)	1:7:A:VAL:HG12	1:87:A:ILE:H	16	0.58
(1,1505)	1:7:A:VAL:HG13	1:87:A:ILE:H	16	0.58
(1,1505)	1:7:A:VAL:HG21	1:87:A:ILE:H	16	0.58
(1,1505)	1:7:A:VAL:HG22	1:87:A:ILE:H	16	0.58
(1,1505)	1:7:A:VAL:HG23	1:87:A:ILE:H	16	0.58
(1,1505)	1:7:A:VAL:HG11	1:87:A:ILE:H	17	0.58
(1,1505)	1:7:A:VAL:HG12	1:87:A:ILE:H	17	0.58
(1,1505)	1:7:A:VAL:HG13	1:87:A:ILE:H	17	0.58
(1,1505)	1:7:A:VAL:HG21	1:87:A:ILE:H	17	0.58
(1,1505)	1:7:A:VAL:HG22	1:87:A:ILE:H	17	0.58
(1,1505)	1:7:A:VAL:HG23	1:87:A:ILE:H	17	0.58
(1,1089)	1:54:A:GLU:H	1:54:A:GLU:HG2	7	0.58
(1,1089)	1:54:A:GLU:H	1:54:A:GLU:HG3	7	0.58
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	9	0.58
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	9	0.58
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	9	0.58
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	11	0.58
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	11	0.58
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	11	0.58
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG12	14	0.58
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG13	14	0.58
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	9	0.58
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	9	0.58
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	9	0.58
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD11	7	0.58
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD12	7	0.58
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD13	7	0.58
(1,641)	1:8:A:THR:HG21	1:9:A:LEU:H	9	0.58
(1,641)	1:8:A:THR:HG22	1:9:A:LEU:H	9	0.58
(1,641)	1:8:A:THR:HG23	1:9:A:LEU:H	9	0.58
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG21	13	0.58
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG22	13	0.58
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG23	13	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG21	17	0.58
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG22	17	0.58
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG23	17	0.58
(1,534)	1:37:A:ILE:HG12	1:66:A:MET:HA	2	0.58
(1,534)	1:37:A:ILE:HG13	1:66:A:MET:HA	2	0.58
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD11	15	0.58
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD12	15	0.58
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD13	15	0.58
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	18	0.58
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	18	0.58
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	18	0.58
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	19	0.58
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	19	0.58
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	19	0.58
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	19	0.58
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	19	0.58
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	19	0.58
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	19	0.58
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	19	0.58
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	19	0.58
(1,365)	1:8:A:THR:HG21	1:86:A:LYS:HE2	15	0.58
(1,365)	1:8:A:THR:HG21	1:86:A:LYS:HE3	15	0.58
(1,365)	1:8:A:THR:HG22	1:86:A:LYS:HE2	15	0.58
(1,365)	1:8:A:THR:HG22	1:86:A:LYS:HE3	15	0.58
(1,365)	1:8:A:THR:HG23	1:86:A:LYS:HE2	15	0.58
(1,365)	1:8:A:THR:HG23	1:86:A:LYS:HE3	15	0.58
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG21	6	0.58
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG22	6	0.58
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG23	6	0.58
(1,121)	1:21:A:ILE:HD11	1:74:A:ALA:HA	18	0.58
(1,121)	1:21:A:ILE:HD12	1:74:A:ALA:HA	18	0.58
(1,121)	1:21:A:ILE:HD13	1:74:A:ALA:HA	18	0.58
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	4	0.57
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	4	0.57
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	4	0.57
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	4	0.57
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	4	0.57
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	4	0.57
(1,1574)	1:38:A:VAL:HG11	1:58:A:VAL:H	6	0.57
(1,1574)	1:38:A:VAL:HG12	1:58:A:VAL:H	6	0.57
(1,1574)	1:38:A:VAL:HG13	1:58:A:VAL:H	6	0.57
(1,1574)	1:38:A:VAL:HG21	1:58:A:VAL:H	6	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1574)	1:38:A:VAL:HG22	1:58:A:VAL:H	6	0.57
(1,1574)	1:38:A:VAL:HG23	1:58:A:VAL:H	6	0.57
(1,1545)	1:20:A:ALA:HB1	1:21:A:ILE:HG12	7	0.57
(1,1545)	1:20:A:ALA:HB1	1:21:A:ILE:HG13	7	0.57
(1,1545)	1:20:A:ALA:HB2	1:21:A:ILE:HG12	7	0.57
(1,1545)	1:20:A:ALA:HB2	1:21:A:ILE:HG13	7	0.57
(1,1545)	1:20:A:ALA:HB3	1:21:A:ILE:HG12	7	0.57
(1,1545)	1:20:A:ALA:HB3	1:21:A:ILE:HG13	7	0.57
(1,1505)	1:7:A:VAL:HG11	1:87:A:ILE:H	2	0.57
(1,1505)	1:7:A:VAL:HG12	1:87:A:ILE:H	2	0.57
(1,1505)	1:7:A:VAL:HG13	1:87:A:ILE:H	2	0.57
(1,1505)	1:7:A:VAL:HG21	1:87:A:ILE:H	2	0.57
(1,1505)	1:7:A:VAL:HG22	1:87:A:ILE:H	2	0.57
(1,1505)	1:7:A:VAL:HG23	1:87:A:ILE:H	2	0.57
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	12	0.57
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	12	0.57
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	12	0.57
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	12	0.57
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	12	0.57
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	12	0.57
(1,1270)	1:70:A:GLU:HG2	1:74:A:ALA:H	20	0.57
(1,1270)	1:70:A:GLU:HG3	1:74:A:ALA:H	20	0.57
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	19	0.57
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	19	0.57
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	20	0.57
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	20	0.57
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	20	0.57
(1,894)	1:35:A:THR:HG21	1:69:A:VAL:H	1	0.57
(1,894)	1:35:A:THR:HG22	1:69:A:VAL:H	1	0.57
(1,894)	1:35:A:THR:HG23	1:69:A:VAL:H	1	0.57
(1,783)	1:21:A:ILE:HD11	1:38:A:VAL:H	2	0.57
(1,783)	1:21:A:ILE:HD12	1:38:A:VAL:H	2	0.57
(1,783)	1:21:A:ILE:HD13	1:38:A:VAL:H	2	0.57
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG21	4	0.57
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG22	4	0.57
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG23	4	0.57
(1,506)	1:39:A:ILE:HD11	1:89:A:ILE:HA	6	0.57
(1,506)	1:39:A:ILE:HD12	1:89:A:ILE:HA	6	0.57
(1,506)	1:39:A:ILE:HD13	1:89:A:ILE:HA	6	0.57
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG11	12	0.57
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG12	12	0.57
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG13	12	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD11	18	0.57
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD12	18	0.57
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD13	18	0.57
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD11	18	0.57
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD12	18	0.57
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD13	18	0.57
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD11	18	0.57
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD12	18	0.57
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD13	18	0.57
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	4	0.57
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	4	0.57
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	4	0.57
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	14	0.57
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	14	0.57
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	14	0.57
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	14	0.57
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	14	0.57
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	14	0.57
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	14	0.57
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	14	0.57
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	14	0.57
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB1	11	0.57
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB2	11	0.57
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB3	11	0.57
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB1	11	0.57
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB2	11	0.57
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB3	11	0.57
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB1	11	0.57
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB2	11	0.57
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB3	11	0.57
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE2	15	0.57
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE3	15	0.57
(1,129)	1:60:A:MET:HE1	1:62:A:ASN:HA	6	0.57
(1,129)	1:60:A:MET:HE2	1:62:A:ASN:HA	6	0.57
(1,129)	1:60:A:MET:HE3	1:62:A:ASN:HA	6	0.57
(1,118)	1:37:A:ILE:HG12	1:74:A:ALA:HA	5	0.57
(1,118)	1:37:A:ILE:HG13	1:74:A:ALA:HA	5	0.57
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG2	5	0.57
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG3	5	0.57
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	3	0.56
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	3	0.56
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	3	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	3	0.56
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	3	0.56
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	3	0.56
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	13	0.56
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	13	0.56
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	13	0.56
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	13	0.56
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	13	0.56
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	13	0.56
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG11	20	0.56
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG12	20	0.56
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG13	20	0.56
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG21	20	0.56
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG22	20	0.56
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG23	20	0.56
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	13	0.56
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	13	0.56
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	13	0.56
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	13	0.56
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	13	0.56
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	13	0.56
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	12	0.56
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	12	0.56
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	12	0.56
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	3	0.56
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	3	0.56
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	3	0.56
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	18	0.56
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	18	0.56
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	18	0.56
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	17	0.56
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	17	0.56
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	17	0.56
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG21	2	0.56
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG22	2	0.56
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG23	2	0.56
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG21	16	0.56
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG22	16	0.56
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG23	16	0.56
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB1	14	0.56
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB2	14	0.56
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB3	14	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB1	14	0.56
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB2	14	0.56
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB3	14	0.56
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB1	14	0.56
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB2	14	0.56
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB3	14	0.56
(1,328)	1:43:A:LEU:HD11	1:47:A:PRO:HG2	19	0.56
(1,328)	1:43:A:LEU:HD12	1:47:A:PRO:HG2	19	0.56
(1,328)	1:43:A:LEU:HD13	1:47:A:PRO:HG2	19	0.56
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG2	10	0.56
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG3	10	0.56
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG2	10	0.56
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG3	10	0.56
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD2	20	0.56
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD3	20	0.56
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD2	4	0.56
(1,287)	1:79:A:ARG:HD2	1:80:A:LYS:HD3	4	0.56
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD2	4	0.56
(1,287)	1:79:A:ARG:HD3	1:80:A:LYS:HD3	4	0.56
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	19	0.56
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	19	0.56
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	11	0.56
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	11	0.56
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	11	0.56
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB2	20	0.55
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB3	20	0.55
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB2	20	0.55
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB3	20	0.55
(1,1603)	1:52:A:LEU:HD11	1:87:A:ILE:HD11	11	0.55
(1,1603)	1:52:A:LEU:HD11	1:87:A:ILE:HD12	11	0.55
(1,1603)	1:52:A:LEU:HD11	1:87:A:ILE:HD13	11	0.55
(1,1603)	1:52:A:LEU:HD12	1:87:A:ILE:HD11	11	0.55
(1,1603)	1:52:A:LEU:HD12	1:87:A:ILE:HD12	11	0.55
(1,1603)	1:52:A:LEU:HD12	1:87:A:ILE:HD13	11	0.55
(1,1603)	1:52:A:LEU:HD13	1:87:A:ILE:HD11	11	0.55
(1,1603)	1:52:A:LEU:HD13	1:87:A:ILE:HD12	11	0.55
(1,1603)	1:52:A:LEU:HD13	1:87:A:ILE:HD13	11	0.55
(1,1603)	1:52:A:LEU:HD21	1:87:A:ILE:HD11	11	0.55
(1,1603)	1:52:A:LEU:HD21	1:87:A:ILE:HD12	11	0.55
(1,1603)	1:52:A:LEU:HD21	1:87:A:ILE:HD13	11	0.55
(1,1603)	1:52:A:LEU:HD22	1:87:A:ILE:HD11	11	0.55
(1,1603)	1:52:A:LEU:HD22	1:87:A:ILE:HD12	11	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1603)	1:52:A:LEU:HD22	1:87:A:ILE:HD13	11	0.55
(1,1603)	1:52:A:LEU:HD23	1:87:A:ILE:HD11	11	0.55
(1,1603)	1:52:A:LEU:HD23	1:87:A:ILE:HD12	11	0.55
(1,1603)	1:52:A:LEU:HD23	1:87:A:ILE:HD13	11	0.55
(1,1505)	1:7:A:VAL:HG11	1:87:A:ILE:H	11	0.55
(1,1505)	1:7:A:VAL:HG12	1:87:A:ILE:H	11	0.55
(1,1505)	1:7:A:VAL:HG13	1:87:A:ILE:H	11	0.55
(1,1505)	1:7:A:VAL:HG21	1:87:A:ILE:H	11	0.55
(1,1505)	1:7:A:VAL:HG22	1:87:A:ILE:H	11	0.55
(1,1505)	1:7:A:VAL:HG23	1:87:A:ILE:H	11	0.55
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	2	0.55
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	2	0.55
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	2	0.55
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	2	0.55
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	2	0.55
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	2	0.55
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG2	3	0.55
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG3	3	0.55
(1,1358)	1:79:A:ARG:HG2	1:80:A:LYS:H	3	0.55
(1,1358)	1:79:A:ARG:HG3	1:80:A:LYS:H	3	0.55
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG2	2	0.55
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG3	2	0.55
(1,916)	1:37:A:ILE:HG21	1:38:A:VAL:H	2	0.55
(1,916)	1:37:A:ILE:HG22	1:38:A:VAL:H	2	0.55
(1,916)	1:37:A:ILE:HG23	1:38:A:VAL:H	2	0.55
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	2	0.55
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	2	0.55
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	2	0.55
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG2	8	0.55
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG3	8	0.55
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG2	1	0.55
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG3	1	0.55
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG2	1	0.55
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG3	1	0.55
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG2	1	0.55
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG3	1	0.55
(1,178)	1:79:A:ARG:HD2	1:80:A:LYS:HA	1	0.55
(1,178)	1:79:A:ARG:HD3	1:80:A:LYS:HA	1	0.55
(1,178)	1:79:A:ARG:HD2	1:80:A:LYS:HA	16	0.55
(1,178)	1:79:A:ARG:HD3	1:80:A:LYS:HA	16	0.55
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG2	7	0.55
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG3	7	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,42)	1:37:A:ILE:HD11	1:71:A:HIS:HA	18	0.55
(1,42)	1:37:A:ILE:HD12	1:71:A:HIS:HA	18	0.55
(1,42)	1:37:A:ILE:HD13	1:71:A:HIS:HA	18	0.55
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG21	20	0.55
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG22	20	0.55
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG23	20	0.55
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	1	0.54
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	1	0.54
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	1	0.54
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	1	0.54
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	1	0.54
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	1	0.54
(1,1564)	1:34:A:GLU:HG2	1:36:A:SER:H	1	0.54
(1,1564)	1:34:A:GLU:HG3	1:36:A:SER:H	1	0.54
(1,1545)	1:20:A:ALA:HB1	1:21:A:ILE:HG12	17	0.54
(1,1545)	1:20:A:ALA:HB1	1:21:A:ILE:HG13	17	0.54
(1,1545)	1:20:A:ALA:HB2	1:21:A:ILE:HG12	17	0.54
(1,1545)	1:20:A:ALA:HB2	1:21:A:ILE:HG13	17	0.54
(1,1545)	1:20:A:ALA:HB3	1:21:A:ILE:HG12	17	0.54
(1,1545)	1:20:A:ALA:HB3	1:21:A:ILE:HG13	17	0.54
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB2	2	0.54
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB3	2	0.54
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	17	0.54
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	17	0.54
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	17	0.54
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	17	0.54
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	17	0.54
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	17	0.54
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD2	1	0.54
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD3	1	0.54
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG2	15	0.54
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG3	15	0.54
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG2	16	0.54
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG3	16	0.54
(1,1358)	1:79:A:ARG:HG2	1:80:A:LYS:H	5	0.54
(1,1358)	1:79:A:ARG:HG3	1:80:A:LYS:H	5	0.54
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	11	0.54
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	11	0.54
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	11	0.54
(1,1089)	1:54:A:GLU:H	1:54:A:GLU:HG2	16	0.54
(1,1089)	1:54:A:GLU:H	1:54:A:GLU:HG3	16	0.54
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB2	4	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB3	4	0.54
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	12	0.54
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	12	0.54
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	6	0.54
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	6	0.54
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	6	0.54
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	20	0.54
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	20	0.54
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	20	0.54
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG21	5	0.54
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG22	5	0.54
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG23	5	0.54
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD11	4	0.54
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD12	4	0.54
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD13	4	0.54
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE2	7	0.54
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE3	7	0.54
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG2	12	0.54
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG3	12	0.54
(1,442)	1:89:A:ILE:HD11	1:91:A:ARG:HB3	8	0.54
(1,442)	1:89:A:ILE:HD12	1:91:A:ARG:HB3	8	0.54
(1,442)	1:89:A:ILE:HD13	1:91:A:ARG:HB3	8	0.54
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG2	3	0.54
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG3	3	0.54
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG2	3	0.54
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG3	3	0.54
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG2	3	0.54
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG3	3	0.54
(1,429)	1:21:A:ILE:HG21	1:74:A:ALA:HB1	13	0.54
(1,429)	1:21:A:ILE:HG21	1:74:A:ALA:HB2	13	0.54
(1,429)	1:21:A:ILE:HG21	1:74:A:ALA:HB3	13	0.54
(1,429)	1:21:A:ILE:HG22	1:74:A:ALA:HB1	13	0.54
(1,429)	1:21:A:ILE:HG22	1:74:A:ALA:HB2	13	0.54
(1,429)	1:21:A:ILE:HG22	1:74:A:ALA:HB3	13	0.54
(1,429)	1:21:A:ILE:HG23	1:74:A:ALA:HB1	13	0.54
(1,429)	1:21:A:ILE:HG23	1:74:A:ALA:HB2	13	0.54
(1,429)	1:21:A:ILE:HG23	1:74:A:ALA:HB3	13	0.54
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	15	0.54
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	15	0.54
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	15	0.54
(1,413)	1:21:A:ILE:HG21	1:38:A:VAL:H	9	0.54
(1,413)	1:21:A:ILE:HG22	1:38:A:VAL:H	9	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,413)	1:21:A:ILE:HG23	1:38:A:VAL:H	9	0.54
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	19	0.54
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	19	0.54
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	19	0.54
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	6	0.54
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	6	0.54
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE2	13	0.54
(1,245)	1:76:A:GLN:HG3	1:80:A:LYS:HE3	13	0.54
(1,192)	1:8:A:THR:HG21	1:84:A:ASN:HB3	9	0.54
(1,192)	1:8:A:THR:HG22	1:84:A:ASN:HB3	9	0.54
(1,192)	1:8:A:THR:HG23	1:84:A:ASN:HB3	9	0.54
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD2	12	0.54
(1,172)	1:77:A:GLN:HA	1:79:A:ARG:HD3	12	0.54
(1,134)	1:35:A:THR:HG21	1:68:A:ASN:HA	15	0.54
(1,134)	1:35:A:THR:HG22	1:68:A:ASN:HA	15	0.54
(1,134)	1:35:A:THR:HG23	1:68:A:ASN:HA	15	0.54
(1,12)	1:75:A:VAL:HA	1:79:A:ARG:HG2	15	0.54
(1,12)	1:75:A:VAL:HA	1:79:A:ARG:HG3	15	0.54
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG2	5	0.53
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG3	5	0.53
(1,1072)	1:8:A:THR:HG21	1:87:A:ILE:H	16	0.53
(1,1072)	1:8:A:THR:HG22	1:87:A:ILE:H	16	0.53
(1,1072)	1:8:A:THR:HG23	1:87:A:ILE:H	16	0.53
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	17	0.53
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	17	0.53
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG21	9	0.53
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG22	9	0.53
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG23	9	0.53
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD11	20	0.53
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD12	20	0.53
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD13	20	0.53
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD11	20	0.53
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD12	20	0.53
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD13	20	0.53
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD11	20	0.53
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD12	20	0.53
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD13	20	0.53
(1,442)	1:89:A:ILE:HD11	1:91:A:ARG:HB3	3	0.53
(1,442)	1:89:A:ILE:HD12	1:91:A:ARG:HB3	3	0.53
(1,442)	1:89:A:ILE:HD13	1:91:A:ARG:HB3	3	0.53
(1,430)	1:69:A:VAL:HG21	1:74:A:ALA:HB1	16	0.53
(1,430)	1:69:A:VAL:HG21	1:74:A:ALA:HB2	16	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,430)	1:69:A:VAL:HG21	1:74:A:ALA:HB3	16	0.53
(1,430)	1:69:A:VAL:HG22	1:74:A:ALA:HB1	16	0.53
(1,430)	1:69:A:VAL:HG22	1:74:A:ALA:HB2	16	0.53
(1,430)	1:69:A:VAL:HG22	1:74:A:ALA:HB3	16	0.53
(1,430)	1:69:A:VAL:HG23	1:74:A:ALA:HB1	16	0.53
(1,430)	1:69:A:VAL:HG23	1:74:A:ALA:HB2	16	0.53
(1,430)	1:69:A:VAL:HG23	1:74:A:ALA:HB3	16	0.53
(1,413)	1:21:A:ILE:HG21	1:38:A:VAL:H	11	0.53
(1,413)	1:21:A:ILE:HG22	1:38:A:VAL:H	11	0.53
(1,413)	1:21:A:ILE:HG23	1:38:A:VAL:H	11	0.53
(1,357)	1:20:A:ALA:HB1	1:21:A:ILE:HD11	17	0.53
(1,357)	1:20:A:ALA:HB1	1:21:A:ILE:HD12	17	0.53
(1,357)	1:20:A:ALA:HB1	1:21:A:ILE:HD13	17	0.53
(1,357)	1:20:A:ALA:HB2	1:21:A:ILE:HD11	17	0.53
(1,357)	1:20:A:ALA:HB2	1:21:A:ILE:HD12	17	0.53
(1,357)	1:20:A:ALA:HB2	1:21:A:ILE:HD13	17	0.53
(1,357)	1:20:A:ALA:HB3	1:21:A:ILE:HD11	17	0.53
(1,357)	1:20:A:ALA:HB3	1:21:A:ILE:HD12	17	0.53
(1,357)	1:20:A:ALA:HB3	1:21:A:ILE:HD13	17	0.53
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG2	5	0.53
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG3	5	0.53
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG2	5	0.53
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG3	5	0.53
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG2	5	0.53
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG3	5	0.53
(1,313)	1:52:A:LEU:HD11	1:89:A:ILE:HB	7	0.53
(1,313)	1:52:A:LEU:HD12	1:89:A:ILE:HB	7	0.53
(1,313)	1:52:A:LEU:HD13	1:89:A:ILE:HB	7	0.53
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	17	0.53
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	17	0.53
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	17	0.53
(1,58)	1:25:A:ARG:HD2	1:69:A:VAL:HA	12	0.53
(1,58)	1:25:A:ARG:HD3	1:69:A:VAL:HA	12	0.53
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	12	0.52
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	12	0.52
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	12	0.52
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	12	0.52
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	12	0.52
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	12	0.52
(1,1569)	1:38:A:VAL:HG11	1:39:A:ILE:HB	5	0.52
(1,1569)	1:38:A:VAL:HG12	1:39:A:ILE:HB	5	0.52
(1,1569)	1:38:A:VAL:HG13	1:39:A:ILE:HB	5	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1569)	1:38:A:VAL:HG21	1:39:A:ILE:HB	5	0.52
(1,1569)	1:38:A:VAL:HG22	1:39:A:ILE:HB	5	0.52
(1,1569)	1:38:A:VAL:HG23	1:39:A:ILE:HB	5	0.52
(1,1549)	1:21:A:ILE:HG12	1:75:A:VAL:HB	17	0.52
(1,1549)	1:21:A:ILE:HG13	1:75:A:VAL:HB	17	0.52
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB2	9	0.52
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB3	9	0.52
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	19	0.52
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	19	0.52
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	6	0.52
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	6	0.52
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	6	0.52
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD2	3	0.52
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD3	3	0.52
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	15	0.52
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	15	0.52
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	15	0.52
(1,937)	1:39:A:ILE:HD11	1:58:A:VAL:H	15	0.52
(1,937)	1:39:A:ILE:HD12	1:58:A:VAL:H	15	0.52
(1,937)	1:39:A:ILE:HD13	1:58:A:VAL:H	15	0.52
(1,917)	1:37:A:ILE:HG12	1:66:A:MET:H	3	0.52
(1,917)	1:37:A:ILE:HG13	1:66:A:MET:H	3	0.52
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG21	4	0.52
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG22	4	0.52
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG23	4	0.52
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	11	0.52
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	11	0.52
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	11	0.52
(1,757)	1:21:A:ILE:H	1:21:A:ILE:HD11	7	0.52
(1,757)	1:21:A:ILE:H	1:21:A:ILE:HD12	7	0.52
(1,757)	1:21:A:ILE:H	1:21:A:ILE:HD13	7	0.52
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG21	12	0.52
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG22	12	0.52
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG23	12	0.52
(1,537)	1:8:A:THR:HG21	1:84:A:ASN:HA	12	0.52
(1,537)	1:8:A:THR:HG22	1:84:A:ASN:HA	12	0.52
(1,537)	1:8:A:THR:HG23	1:84:A:ASN:HA	12	0.52
(1,459)	1:52:A:LEU:HB2	1:87:A:ILE:HD11	8	0.52
(1,459)	1:52:A:LEU:HB2	1:87:A:ILE:HD12	8	0.52
(1,459)	1:52:A:LEU:HB2	1:87:A:ILE:HD13	8	0.52
(1,459)	1:52:A:LEU:HB3	1:87:A:ILE:HD11	8	0.52
(1,459)	1:52:A:LEU:HB3	1:87:A:ILE:HD12	8	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,459)	1:52:A:LEU:HB3	1:87:A:ILE:HD13	8	0.52
(1,371)	1:6:A:THR:HG21	1:86:A:LYS:HB2	17	0.52
(1,371)	1:6:A:THR:HG22	1:86:A:LYS:HB2	17	0.52
(1,371)	1:6:A:THR:HG23	1:86:A:LYS:HB2	17	0.52
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG2	10	0.52
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG3	10	0.52
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG2	10	0.52
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG3	10	0.52
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG2	10	0.52
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG3	10	0.52
(1,328)	1:43:A:LEU:HD11	1:47:A:PRO:HG2	15	0.52
(1,328)	1:43:A:LEU:HD12	1:47:A:PRO:HG2	15	0.52
(1,328)	1:43:A:LEU:HD13	1:47:A:PRO:HG2	15	0.52
(1,313)	1:52:A:LEU:HD11	1:89:A:ILE:HB	16	0.52
(1,313)	1:52:A:LEU:HD12	1:89:A:ILE:HB	16	0.52
(1,313)	1:52:A:LEU:HD13	1:89:A:ILE:HB	16	0.52
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	4	0.52
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	4	0.52
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD11	15	0.52
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD12	15	0.52
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD13	15	0.52
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD11	15	0.52
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD12	15	0.52
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD13	15	0.52
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	7	0.52
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	7	0.52
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	7	0.52
(1,178)	1:79:A:ARG:HD2	1:80:A:LYS:HA	20	0.52
(1,178)	1:79:A:ARG:HD3	1:80:A:LYS:HA	20	0.52
(1,33)	1:37:A:ILE:HG21	1:71:A:HIS:HA	4	0.52
(1,33)	1:37:A:ILE:HG22	1:71:A:HIS:HA	4	0.52
(1,33)	1:37:A:ILE:HG23	1:71:A:HIS:HA	4	0.52
(1,12)	1:75:A:VAL:HA	1:79:A:ARG:HG2	10	0.52
(1,12)	1:75:A:VAL:HA	1:79:A:ARG:HG3	10	0.52
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD11	6	0.51
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD12	6	0.51
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD13	6	0.51
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD11	6	0.51
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD12	6	0.51
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD13	6	0.51
(1,1521)	1:11:A:ARG:HD2	1:79:A:ARG:H	13	0.51
(1,1521)	1:11:A:ARG:HD3	1:79:A:ARG:H	13	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1510)	1:10:A:HIS:HB2	1:12:A:ALA:H	15	0.51
(1,1510)	1:10:A:HIS:HB3	1:12:A:ALA:H	15	0.51
(1,1434)	1:89:A:ILE:H	1:89:A:ILE:HD11	14	0.51
(1,1434)	1:89:A:ILE:H	1:89:A:ILE:HD12	14	0.51
(1,1434)	1:89:A:ILE:H	1:89:A:ILE:HD13	14	0.51
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD2	10	0.51
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD3	10	0.51
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG2	6	0.51
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG3	6	0.51
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	18	0.51
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	18	0.51
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	18	0.51
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	11	0.51
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	11	0.51
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	11	0.51
(1,1089)	1:54:A:GLU:H	1:54:A:GLU:HG2	12	0.51
(1,1089)	1:54:A:GLU:H	1:54:A:GLU:HG3	12	0.51
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE2	12	0.51
(1,990)	1:43:A:LEU:H	1:44:A:LYS:HE3	12	0.51
(1,919)	1:37:A:ILE:HG12	1:67:A:ASP:H	14	0.51
(1,919)	1:37:A:ILE:HG13	1:67:A:ASP:H	14	0.51
(1,916)	1:37:A:ILE:HG21	1:38:A:VAL:H	5	0.51
(1,916)	1:37:A:ILE:HG22	1:38:A:VAL:H	5	0.51
(1,916)	1:37:A:ILE:HG23	1:38:A:VAL:H	5	0.51
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD11	16	0.51
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD12	16	0.51
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD13	16	0.51
(1,695)	1:78:A:LEU:HD11	1:81:A:SER:H	9	0.51
(1,695)	1:78:A:LEU:HD12	1:81:A:SER:H	9	0.51
(1,695)	1:78:A:LEU:HD13	1:81:A:SER:H	9	0.51
(1,614)	1:6:A:THR:HG21	1:89:A:ILE:H	4	0.51
(1,614)	1:6:A:THR:HG22	1:89:A:ILE:H	4	0.51
(1,614)	1:6:A:THR:HG23	1:89:A:ILE:H	4	0.51
(1,537)	1:8:A:THR:HG21	1:84:A:ASN:HA	8	0.51
(1,537)	1:8:A:THR:HG22	1:84:A:ASN:HA	8	0.51
(1,537)	1:8:A:THR:HG23	1:84:A:ASN:HA	8	0.51
(1,467)	1:37:A:ILE:HD11	1:74:A:ALA:H	11	0.51
(1,467)	1:37:A:ILE:HD12	1:74:A:ALA:H	11	0.51
(1,467)	1:37:A:ILE:HD13	1:74:A:ALA:H	11	0.51
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD11	17	0.51
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD12	17	0.51
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD13	17	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	16	0.51
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	16	0.51
(1,389)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	16	0.51
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	16	0.51
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	16	0.51
(1,389)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	16	0.51
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	16	0.51
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	16	0.51
(1,389)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	16	0.51
(1,63)	1:19:A:ILE:HD11	1:39:A:ILE:HA	14	0.51
(1,63)	1:19:A:ILE:HD12	1:39:A:ILE:HA	14	0.51
(1,63)	1:19:A:ILE:HD13	1:39:A:ILE:HA	14	0.51
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG21	13	0.51
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG22	13	0.51
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG23	13	0.51
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	2	0.5
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	2	0.5
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	2	0.5
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	2	0.5
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	2	0.5
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	2	0.5
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	6	0.5
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	6	0.5
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	6	0.5
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	6	0.5
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	6	0.5
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	6	0.5
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	17	0.5
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	17	0.5
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	17	0.5
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	17	0.5
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	17	0.5
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	17	0.5
(1,1573)	1:38:A:VAL:HG11	1:57:A:ARG:HD2	18	0.5
(1,1573)	1:38:A:VAL:HG11	1:57:A:ARG:HD3	18	0.5
(1,1573)	1:38:A:VAL:HG12	1:57:A:ARG:HD2	18	0.5
(1,1573)	1:38:A:VAL:HG12	1:57:A:ARG:HD3	18	0.5
(1,1573)	1:38:A:VAL:HG13	1:57:A:ARG:HD2	18	0.5
(1,1573)	1:38:A:VAL:HG13	1:57:A:ARG:HD3	18	0.5
(1,1573)	1:38:A:VAL:HG21	1:57:A:ARG:HD2	18	0.5
(1,1573)	1:38:A:VAL:HG21	1:57:A:ARG:HD3	18	0.5
(1,1573)	1:38:A:VAL:HG22	1:57:A:ARG:HD2	18	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1573)	1:38:A:VAL:HG22	1:57:A:ARG:HD3	18	0.5
(1,1573)	1:38:A:VAL:HG23	1:57:A:ARG:HD2	18	0.5
(1,1573)	1:38:A:VAL:HG23	1:57:A:ARG:HD3	18	0.5
(1,1549)	1:21:A:ILE:HG12	1:75:A:VAL:HB	8	0.5
(1,1549)	1:21:A:ILE:HG13	1:75:A:VAL:HB	8	0.5
(1,1504)	1:7:A:VAL:HG11	1:51:A:GLN:HA	11	0.5
(1,1504)	1:7:A:VAL:HG12	1:51:A:GLN:HA	11	0.5
(1,1504)	1:7:A:VAL:HG13	1:51:A:GLN:HA	11	0.5
(1,1504)	1:7:A:VAL:HG21	1:51:A:GLN:HA	11	0.5
(1,1504)	1:7:A:VAL:HG22	1:51:A:GLN:HA	11	0.5
(1,1504)	1:7:A:VAL:HG23	1:51:A:GLN:HA	11	0.5
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE2	9	0.5
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE3	9	0.5
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD2	18	0.5
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD3	18	0.5
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE2	12	0.5
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE3	12	0.5
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	18	0.5
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	18	0.5
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	18	0.5
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	4	0.5
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	4	0.5
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB2	1	0.5
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB3	1	0.5
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB2	18	0.5
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB3	18	0.5
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD11	15	0.5
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD12	15	0.5
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD13	15	0.5
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	7	0.5
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	7	0.5
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	7	0.5
(1,757)	1:21:A:ILE:H	1:21:A:ILE:HD11	17	0.5
(1,757)	1:21:A:ILE:H	1:21:A:ILE:HD12	17	0.5
(1,757)	1:21:A:ILE:H	1:21:A:ILE:HD13	17	0.5
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	2	0.5
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	2	0.5
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	2	0.5
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG2	6	0.5
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG3	6	0.5
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	8	0.5
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	8	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	8	0.5
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	15	0.5
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	15	0.5
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	15	0.5
(1,357)	1:20:A:ALA:HB1	1:21:A:ILE:HD11	7	0.5
(1,357)	1:20:A:ALA:HB1	1:21:A:ILE:HD12	7	0.5
(1,357)	1:20:A:ALA:HB1	1:21:A:ILE:HD13	7	0.5
(1,357)	1:20:A:ALA:HB2	1:21:A:ILE:HD11	7	0.5
(1,357)	1:20:A:ALA:HB2	1:21:A:ILE:HD12	7	0.5
(1,357)	1:20:A:ALA:HB2	1:21:A:ILE:HD13	7	0.5
(1,357)	1:20:A:ALA:HB3	1:21:A:ILE:HD11	7	0.5
(1,357)	1:20:A:ALA:HB3	1:21:A:ILE:HD12	7	0.5
(1,357)	1:20:A:ALA:HB3	1:21:A:ILE:HD13	7	0.5
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG2	2	0.5
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG3	2	0.5
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG2	2	0.5
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG3	2	0.5
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG2	2	0.5
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG3	2	0.5
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG2	20	0.5
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG3	20	0.5
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG2	20	0.5
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG3	20	0.5
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG2	20	0.5
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG3	20	0.5
(1,95)	1:77:A:GLN:HA	1:80:A:LYS:HD2	6	0.5
(1,95)	1:77:A:GLN:HA	1:80:A:LYS:HD3	6	0.5
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG2	15	0.5
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG3	15	0.5
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	13	0.5
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	13	0.5
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	13	0.5
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB2	6	0.49
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB3	6	0.49
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB2	6	0.49
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB3	6	0.49
(1,1585)	1:42:A:VAL:HG11	1:49:A:GLU:HB2	5	0.49
(1,1585)	1:42:A:VAL:HG12	1:49:A:GLU:HB2	5	0.49
(1,1585)	1:42:A:VAL:HG13	1:49:A:GLU:HB2	5	0.49
(1,1585)	1:42:A:VAL:HG21	1:49:A:GLU:HB2	5	0.49
(1,1585)	1:42:A:VAL:HG22	1:49:A:GLU:HB2	5	0.49
(1,1585)	1:42:A:VAL:HG23	1:49:A:GLU:HB2	5	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD11	3	0.49
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD12	3	0.49
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD13	3	0.49
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD11	3	0.49
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD12	3	0.49
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD13	3	0.49
(1,1549)	1:21:A:ILE:HG12	1:75:A:VAL:HB	9	0.49
(1,1549)	1:21:A:ILE:HG13	1:75:A:VAL:HB	9	0.49
(1,1548)	1:21:A:ILE:HG12	1:75:A:VAL:HA	17	0.49
(1,1548)	1:21:A:ILE:HG13	1:75:A:VAL:HA	17	0.49
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	13	0.49
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	13	0.49
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	13	0.49
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	13	0.49
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	13	0.49
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	13	0.49
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	15	0.49
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	15	0.49
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	15	0.49
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	15	0.49
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	15	0.49
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	15	0.49
(1,1423)	1:86:A:LYS:HE2	1:87:A:ILE:H	8	0.49
(1,1423)	1:86:A:LYS:HE3	1:87:A:ILE:H	8	0.49
(1,1358)	1:79:A:ARG:HG2	1:80:A:LYS:H	7	0.49
(1,1358)	1:79:A:ARG:HG3	1:80:A:LYS:H	7	0.49
(1,1269)	1:70:A:GLU:HG2	1:73:A:PHE:H	3	0.49
(1,1269)	1:70:A:GLU:HG3	1:73:A:PHE:H	3	0.49
(1,1072)	1:8:A:THR:HG21	1:87:A:ILE:H	8	0.49
(1,1072)	1:8:A:THR:HG22	1:87:A:ILE:H	8	0.49
(1,1072)	1:8:A:THR:HG23	1:87:A:ILE:H	8	0.49
(1,1007)	1:44:A:LYS:H	1:44:A:LYS:HE2	15	0.49
(1,1007)	1:44:A:LYS:H	1:44:A:LYS:HE3	15	0.49
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	3	0.49
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	3	0.49
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	3	0.49
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG21	6	0.49
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG22	6	0.49
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG23	6	0.49
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	5	0.49
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	5	0.49
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	5	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG21	15	0.49
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG22	15	0.49
(1,546)	1:1:A:ILE:H	1:1:A:ILE:HG23	15	0.49
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD11	3	0.49
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD12	3	0.49
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD13	3	0.49
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD11	3	0.49
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD12	3	0.49
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD13	3	0.49
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD11	3	0.49
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD12	3	0.49
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD13	3	0.49
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD11	13	0.49
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD12	13	0.49
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD13	13	0.49
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD11	13	0.49
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD12	13	0.49
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD13	13	0.49
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD11	13	0.49
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD12	13	0.49
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD13	13	0.49
(1,328)	1:43:A:LEU:HD11	1:47:A:PRO:HG2	13	0.49
(1,328)	1:43:A:LEU:HD12	1:47:A:PRO:HG2	13	0.49
(1,328)	1:43:A:LEU:HD13	1:47:A:PRO:HG2	13	0.49
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG2	7	0.49
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG3	7	0.49
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG2	7	0.49
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG3	7	0.49
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG2	7	0.49
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG3	7	0.49
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD2	10	0.49
(1,220)	1:55:A:ASN:HB2	1:57:A:ARG:HD3	10	0.49
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	11	0.49
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	11	0.49
(1,182)	1:39:A:ILE:HD11	1:89:A:ILE:HB	6	0.49
(1,182)	1:39:A:ILE:HD12	1:89:A:ILE:HB	6	0.49
(1,182)	1:39:A:ILE:HD13	1:89:A:ILE:HB	6	0.49
(1,86)	1:39:A:ILE:HD11	1:54:A:GLU:HA	3	0.49
(1,86)	1:39:A:ILE:HD12	1:54:A:GLU:HA	3	0.49
(1,86)	1:39:A:ILE:HD13	1:54:A:GLU:HA	3	0.49
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	11	0.49
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	11	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	11	0.49
(1,12)	1:75:A:VAL:HA	1:79:A:ARG:HG2	11	0.49
(1,12)	1:75:A:VAL:HA	1:79:A:ARG:HG3	11	0.49
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	10	0.48
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	10	0.48
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	10	0.48
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	10	0.48
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	10	0.48
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	10	0.48
(1,1583)	1:42:A:VAL:HG11	1:49:A:GLU:H	14	0.48
(1,1583)	1:42:A:VAL:HG12	1:49:A:GLU:H	14	0.48
(1,1583)	1:42:A:VAL:HG13	1:49:A:GLU:H	14	0.48
(1,1583)	1:42:A:VAL:HG21	1:49:A:GLU:H	14	0.48
(1,1583)	1:42:A:VAL:HG22	1:49:A:GLU:H	14	0.48
(1,1583)	1:42:A:VAL:HG23	1:49:A:GLU:H	14	0.48
(1,1564)	1:34:A:GLU:HG2	1:36:A:SER:H	8	0.48
(1,1564)	1:34:A:GLU:HG3	1:36:A:SER:H	8	0.48
(1,1505)	1:7:A:VAL:HG11	1:87:A:ILE:H	15	0.48
(1,1505)	1:7:A:VAL:HG12	1:87:A:ILE:H	15	0.48
(1,1505)	1:7:A:VAL:HG13	1:87:A:ILE:H	15	0.48
(1,1505)	1:7:A:VAL:HG21	1:87:A:ILE:H	15	0.48
(1,1505)	1:7:A:VAL:HG22	1:87:A:ILE:H	15	0.48
(1,1505)	1:7:A:VAL:HG23	1:87:A:ILE:H	15	0.48
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG2	3	0.48
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG3	3	0.48
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG2	8	0.48
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG3	8	0.48
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG2	15	0.48
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG3	15	0.48
(1,1094)	1:54:A:GLU:HG2	1:55:A:ASN:H	3	0.48
(1,1094)	1:54:A:GLU:HG3	1:55:A:ASN:H	3	0.48
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE2	4	0.48
(1,974)	1:42:A:VAL:H	1:44:A:LYS:HE3	4	0.48
(1,948)	1:38:A:VAL:HG21	1:39:A:ILE:H	14	0.48
(1,948)	1:38:A:VAL:HG22	1:39:A:ILE:H	14	0.48
(1,948)	1:38:A:VAL:HG23	1:39:A:ILE:H	14	0.48
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG2	14	0.48
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG3	14	0.48
(1,444)	1:21:A:ILE:HD11	1:74:A:ALA:H	10	0.48
(1,444)	1:21:A:ILE:HD12	1:74:A:ALA:H	10	0.48
(1,444)	1:21:A:ILE:HD13	1:74:A:ALA:H	10	0.48
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG2	13	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG3	13	0.48
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG2	13	0.48
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG3	13	0.48
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG2	13	0.48
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG3	13	0.48
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	13	0.48
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	13	0.48
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	13	0.48
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB1	13	0.48
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB2	13	0.48
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB3	13	0.48
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB1	13	0.48
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB2	13	0.48
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB3	13	0.48
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB1	13	0.48
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB2	13	0.48
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB3	13	0.48
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG2	7	0.48
(1,303)	1:78:A:LEU:H	1:79:A:ARG:HG3	7	0.48
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG2	18	0.48
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG3	18	0.48
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG2	18	0.48
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG3	18	0.48
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG2	18	0.48
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG3	18	0.48
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE2	7	0.48
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE3	7	0.48
(1,112)	1:54:A:GLU:HG2	1:55:A:ASN:HA	9	0.48
(1,112)	1:54:A:GLU:HG3	1:55:A:ASN:HA	9	0.48
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB2	15	0.47
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB3	15	0.47
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB2	15	0.47
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB3	15	0.47
(1,1565)	1:36:A:SER:HB2	1:68:A:ASN:H	9	0.47
(1,1565)	1:36:A:SER:HB3	1:68:A:ASN:H	9	0.47
(1,1564)	1:34:A:GLU:HG2	1:36:A:SER:H	12	0.47
(1,1564)	1:34:A:GLU:HG3	1:36:A:SER:H	12	0.47
(1,1560)	1:25:A:ARG:HD2	1:26:A:ASP:HB2	6	0.47
(1,1560)	1:25:A:ARG:HD2	1:26:A:ASP:HB3	6	0.47
(1,1560)	1:25:A:ARG:HD3	1:26:A:ASP:HB2	6	0.47
(1,1560)	1:25:A:ARG:HD3	1:26:A:ASP:HB3	6	0.47
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD11	12	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD12	12	0.47
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD13	12	0.47
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD21	12	0.47
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD22	12	0.47
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD23	12	0.47
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	5	0.47
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	5	0.47
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD2	9	0.47
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD3	9	0.47
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG2	13	0.47
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG3	13	0.47
(1,1358)	1:79:A:ARG:HG2	1:80:A:LYS:H	14	0.47
(1,1358)	1:79:A:ARG:HG3	1:80:A:LYS:H	14	0.47
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG2	7	0.47
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG3	7	0.47
(1,1269)	1:70:A:GLU:HG2	1:73:A:PHE:H	5	0.47
(1,1269)	1:70:A:GLU:HG3	1:73:A:PHE:H	5	0.47
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	8	0.47
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	8	0.47
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	8	0.47
(1,1111)	1:57:A:ARG:H	1:91:A:ARG:HG2	17	0.47
(1,1111)	1:57:A:ARG:H	1:91:A:ARG:HG3	17	0.47
(1,1007)	1:44:A:LYS:H	1:44:A:LYS:HE2	2	0.47
(1,1007)	1:44:A:LYS:H	1:44:A:LYS:HE3	2	0.47
(1,954)	1:39:A:ILE:HG21	1:41:A:ASP:H	8	0.47
(1,954)	1:39:A:ILE:HG22	1:41:A:ASP:H	8	0.47
(1,954)	1:39:A:ILE:HG23	1:41:A:ASP:H	8	0.47
(1,954)	1:39:A:ILE:HG21	1:41:A:ASP:H	9	0.47
(1,954)	1:39:A:ILE:HG22	1:41:A:ASP:H	9	0.47
(1,954)	1:39:A:ILE:HG23	1:41:A:ASP:H	9	0.47
(1,948)	1:38:A:VAL:HG21	1:39:A:ILE:H	1	0.47
(1,948)	1:38:A:VAL:HG22	1:39:A:ILE:H	1	0.47
(1,948)	1:38:A:VAL:HG23	1:39:A:ILE:H	1	0.47
(1,948)	1:38:A:VAL:HG21	1:39:A:ILE:H	4	0.47
(1,948)	1:38:A:VAL:HG22	1:39:A:ILE:H	4	0.47
(1,948)	1:38:A:VAL:HG23	1:39:A:ILE:H	4	0.47
(1,783)	1:21:A:ILE:HD11	1:38:A:VAL:H	4	0.47
(1,783)	1:21:A:ILE:HD12	1:38:A:VAL:H	4	0.47
(1,783)	1:21:A:ILE:HD13	1:38:A:VAL:H	4	0.47
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	9	0.47
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	9	0.47
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	9	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,708)	1:12:A:ALA:HB1	1:16:A:GLY:H	1	0.47
(1,708)	1:12:A:ALA:HB2	1:16:A:GLY:H	1	0.47
(1,708)	1:12:A:ALA:HB3	1:16:A:GLY:H	1	0.47
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE2	5	0.47
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE3	5	0.47
(1,481)	1:6:A:THR:HA	1:89:A:ILE:HD11	13	0.47
(1,481)	1:6:A:THR:HA	1:89:A:ILE:HD12	13	0.47
(1,481)	1:6:A:THR:HA	1:89:A:ILE:HD13	13	0.47
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD11	14	0.47
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD12	14	0.47
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD13	14	0.47
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD11	14	0.47
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD12	14	0.47
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD13	14	0.47
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD11	14	0.47
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD12	14	0.47
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD13	14	0.47
(1,383)	1:6:A:THR:HG21	1:60:A:MET:HB3	7	0.47
(1,383)	1:6:A:THR:HG22	1:60:A:MET:HB3	7	0.47
(1,383)	1:6:A:THR:HG23	1:60:A:MET:HB3	7	0.47
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB1	9	0.47
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB2	9	0.47
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB3	9	0.47
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB1	9	0.47
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB2	9	0.47
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB3	9	0.47
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB1	9	0.47
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB2	9	0.47
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB3	9	0.47
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD2	6	0.47
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD3	6	0.47
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD2	6	0.47
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD3	6	0.47
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD2	6	0.47
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD3	6	0.47
(1,346)	1:56:A:ASP:HA	1:89:A:ILE:HG21	2	0.47
(1,346)	1:56:A:ASP:HA	1:89:A:ILE:HG22	2	0.47
(1,346)	1:56:A:ASP:HA	1:89:A:ILE:HG23	2	0.47
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD2	10	0.47
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD3	10	0.47
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	2	0.47
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	2	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	2	0.47
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD11	13	0.47
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD12	13	0.47
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD13	13	0.47
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	18	0.47
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	18	0.47
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	18	0.47
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	9	0.46
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	9	0.46
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	9	0.46
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	9	0.46
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	9	0.46
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	9	0.46
(1,1574)	1:38:A:VAL:HG11	1:58:A:VAL:H	9	0.46
(1,1574)	1:38:A:VAL:HG12	1:58:A:VAL:H	9	0.46
(1,1574)	1:38:A:VAL:HG13	1:58:A:VAL:H	9	0.46
(1,1574)	1:38:A:VAL:HG21	1:58:A:VAL:H	9	0.46
(1,1574)	1:38:A:VAL:HG22	1:58:A:VAL:H	9	0.46
(1,1574)	1:38:A:VAL:HG23	1:58:A:VAL:H	9	0.46
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	8	0.46
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	8	0.46
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG2	11	0.46
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG3	11	0.46
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG2	16	0.46
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG3	16	0.46
(1,1269)	1:70:A:GLU:HG2	1:73:A:PHE:H	18	0.46
(1,1269)	1:70:A:GLU:HG3	1:73:A:PHE:H	18	0.46
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	2	0.46
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	2	0.46
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	2	0.46
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	18	0.46
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	18	0.46
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	18	0.46
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG2	4	0.46
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG3	4	0.46
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG2	11	0.46
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG3	11	0.46
(1,1094)	1:54:A:GLU:HG2	1:55:A:ASN:H	13	0.46
(1,1094)	1:54:A:GLU:HG3	1:55:A:ASN:H	13	0.46
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB2	12	0.46
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB3	12	0.46
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	7	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	7	0.46
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	7	0.46
(1,928)	1:37:A:ILE:HD11	1:69:A:VAL:H	5	0.46
(1,928)	1:37:A:ILE:HD12	1:69:A:VAL:H	5	0.46
(1,928)	1:37:A:ILE:HD13	1:69:A:VAL:H	5	0.46
(1,919)	1:37:A:ILE:HG12	1:67:A:ASP:H	11	0.46
(1,919)	1:37:A:ILE:HG13	1:67:A:ASP:H	11	0.46
(1,781)	1:21:A:ILE:HG21	1:75:A:VAL:H	5	0.46
(1,781)	1:21:A:ILE:HG22	1:75:A:VAL:H	5	0.46
(1,781)	1:21:A:ILE:HG23	1:75:A:VAL:H	5	0.46
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD11	1	0.46
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD12	1	0.46
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD13	1	0.46
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD11	13	0.46
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD12	13	0.46
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD13	13	0.46
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG2	9	0.46
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG3	9	0.46
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG11	5	0.46
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG12	5	0.46
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG13	5	0.46
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	19	0.46
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	19	0.46
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	19	0.46
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB1	18	0.46
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB2	18	0.46
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB3	18	0.46
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB1	18	0.46
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB2	18	0.46
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB3	18	0.46
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB1	18	0.46
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB2	18	0.46
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB3	18	0.46
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD2	2	0.46
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD3	2	0.46
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD2	2	0.46
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD3	2	0.46
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD2	2	0.46
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD3	2	0.46
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	11	0.46
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	11	0.46
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD11	1	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD12	1	0.46
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD13	1	0.46
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD11	1	0.46
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD12	1	0.46
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD13	1	0.46
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	4	0.46
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	4	0.46
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	4	0.46
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	4	0.46
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	8	0.45
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	8	0.45
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	8	0.45
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	8	0.45
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	8	0.45
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	8	0.45
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	16	0.45
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	16	0.45
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	16	0.45
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	16	0.45
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	16	0.45
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	16	0.45
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB2	17	0.45
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB3	17	0.45
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	2	0.45
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	2	0.45
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	2	0.45
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	2	0.45
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	2	0.45
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	2	0.45
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE2	4	0.45
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE3	4	0.45
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD2	10	0.45
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD3	10	0.45
(1,1423)	1:86:A:LYS:HE2	1:87:A:ILE:H	3	0.45
(1,1423)	1:86:A:LYS:HE3	1:87:A:ILE:H	3	0.45
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG2	18	0.45
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG3	18	0.45
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG2	7	0.45
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG3	7	0.45
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	14	0.45
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	14	0.45
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	14	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	2	0.45
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	2	0.45
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	2	0.45
(1,1072)	1:8:A:THR:HG21	1:87:A:ILE:H	13	0.45
(1,1072)	1:8:A:THR:HG22	1:87:A:ILE:H	13	0.45
(1,1072)	1:8:A:THR:HG23	1:87:A:ILE:H	13	0.45
(1,1069)	1:19:A:ILE:HG21	1:52:A:LEU:H	14	0.45
(1,1069)	1:19:A:ILE:HG22	1:52:A:LEU:H	14	0.45
(1,1069)	1:19:A:ILE:HG23	1:52:A:LEU:H	14	0.45
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG2	20	0.45
(1,1042)	1:49:A:GLU:H	1:51:A:GLN:HG3	20	0.45
(1,948)	1:38:A:VAL:HG21	1:39:A:ILE:H	10	0.45
(1,948)	1:38:A:VAL:HG22	1:39:A:ILE:H	10	0.45
(1,948)	1:38:A:VAL:HG23	1:39:A:ILE:H	10	0.45
(1,948)	1:38:A:VAL:HG21	1:39:A:ILE:H	12	0.45
(1,948)	1:38:A:VAL:HG22	1:39:A:ILE:H	12	0.45
(1,948)	1:38:A:VAL:HG23	1:39:A:ILE:H	12	0.45
(1,948)	1:38:A:VAL:HG21	1:39:A:ILE:H	20	0.45
(1,948)	1:38:A:VAL:HG22	1:39:A:ILE:H	20	0.45
(1,948)	1:38:A:VAL:HG23	1:39:A:ILE:H	20	0.45
(1,919)	1:37:A:ILE:HG12	1:67:A:ASP:H	13	0.45
(1,919)	1:37:A:ILE:HG13	1:67:A:ASP:H	13	0.45
(1,917)	1:37:A:ILE:HG12	1:66:A:MET:H	13	0.45
(1,917)	1:37:A:ILE:HG13	1:66:A:MET:H	13	0.45
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	8	0.45
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	8	0.45
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	8	0.45
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG21	4	0.45
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG22	4	0.45
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG23	4	0.45
(1,645)	1:8:A:THR:HG21	1:86:A:LYS:H	3	0.45
(1,645)	1:8:A:THR:HG22	1:86:A:LYS:H	3	0.45
(1,645)	1:8:A:THR:HG23	1:86:A:LYS:H	3	0.45
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG2	7	0.45
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG3	7	0.45
(1,571)	1:3:A:GLU:HG2	1:4:A:GLN:H	10	0.45
(1,571)	1:3:A:GLU:HG3	1:4:A:GLN:H	10	0.45
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB1	10	0.45
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB2	10	0.45
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB3	10	0.45
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB1	10	0.45
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB2	10	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB3	10	0.45
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB1	10	0.45
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB2	10	0.45
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB3	10	0.45
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB1	11	0.45
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB2	11	0.45
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB3	11	0.45
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB1	11	0.45
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB2	11	0.45
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB3	11	0.45
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB1	11	0.45
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB2	11	0.45
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB3	11	0.45
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG2	7	0.45
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG3	7	0.45
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG2	7	0.45
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG3	7	0.45
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG2	7	0.45
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG3	7	0.45
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG2	1	0.45
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG3	1	0.45
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG2	1	0.45
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG3	1	0.45
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG2	1	0.45
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG3	1	0.45
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB1	18	0.45
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB2	18	0.45
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB3	18	0.45
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB1	18	0.45
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB2	18	0.45
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB3	18	0.45
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB1	18	0.45
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB2	18	0.45
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB3	18	0.45
(1,328)	1:43:A:LEU:HD11	1:47:A:PRO:HG2	7	0.45
(1,328)	1:43:A:LEU:HD12	1:47:A:PRO:HG2	7	0.45
(1,328)	1:43:A:LEU:HD13	1:47:A:PRO:HG2	7	0.45
(1,328)	1:43:A:LEU:HD11	1:47:A:PRO:HG2	8	0.45
(1,328)	1:43:A:LEU:HD12	1:47:A:PRO:HG2	8	0.45
(1,328)	1:43:A:LEU:HD13	1:47:A:PRO:HG2	8	0.45
(1,317)	1:78:A:LEU:HD21	1:79:A:ARG:HG2	11	0.45
(1,317)	1:78:A:LEU:HD21	1:79:A:ARG:HG3	11	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,317)	1:78:A:LEU:HD22	1:79:A:ARG:HG2	11	0.45
(1,317)	1:78:A:LEU:HD22	1:79:A:ARG:HG3	11	0.45
(1,317)	1:78:A:LEU:HD23	1:79:A:ARG:HG2	11	0.45
(1,317)	1:78:A:LEU:HD23	1:79:A:ARG:HG3	11	0.45
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD2	8	0.45
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD3	8	0.45
(1,93)	1:44:A:LYS:HA	1:44:A:LYS:HD2	3	0.45
(1,93)	1:44:A:LYS:HA	1:44:A:LYS:HD3	3	0.45
(1,64)	1:21:A:ILE:HD11	1:39:A:ILE:HA	4	0.45
(1,64)	1:21:A:ILE:HD12	1:39:A:ILE:HA	4	0.45
(1,64)	1:21:A:ILE:HD13	1:39:A:ILE:HA	4	0.45
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG11	12	0.44
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG12	12	0.44
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG13	12	0.44
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG21	12	0.44
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG22	12	0.44
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG23	12	0.44
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB2	3	0.44
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB3	3	0.44
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	11	0.44
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	11	0.44
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	11	0.44
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	11	0.44
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	11	0.44
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	11	0.44
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE2	20	0.44
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE3	20	0.44
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD2	2	0.44
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD3	2	0.44
(1,1423)	1:86:A:LYS:HE2	1:87:A:ILE:H	4	0.44
(1,1423)	1:86:A:LYS:HE3	1:87:A:ILE:H	4	0.44
(1,1423)	1:86:A:LYS:HE2	1:87:A:ILE:H	20	0.44
(1,1423)	1:86:A:LYS:HE3	1:87:A:ILE:H	20	0.44
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD2	11	0.44
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD3	11	0.44
(1,1358)	1:79:A:ARG:HG2	1:80:A:LYS:H	1	0.44
(1,1358)	1:79:A:ARG:HG3	1:80:A:LYS:H	1	0.44
(1,1270)	1:70:A:GLU:HG2	1:74:A:ALA:H	16	0.44
(1,1270)	1:70:A:GLU:HG3	1:74:A:ALA:H	16	0.44
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	13	0.44
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	13	0.44
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	13	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	20	0.44
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	20	0.44
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	20	0.44
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	5	0.44
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	5	0.44
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG21	12	0.44
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG22	12	0.44
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG23	12	0.44
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	18	0.44
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	18	0.44
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	18	0.44
(1,858)	1:25:A:ARG:HD2	1:27:A:ASN:H	11	0.44
(1,858)	1:25:A:ARG:HD3	1:27:A:ASN:H	11	0.44
(1,527)	1:89:A:ILE:HD11	1:90:A:ARG:HA	14	0.44
(1,527)	1:89:A:ILE:HD12	1:90:A:ARG:HA	14	0.44
(1,527)	1:89:A:ILE:HD13	1:90:A:ARG:HA	14	0.44
(1,465)	1:39:A:ILE:HD11	1:89:A:ILE:HG21	11	0.44
(1,465)	1:39:A:ILE:HD11	1:89:A:ILE:HG22	11	0.44
(1,465)	1:39:A:ILE:HD11	1:89:A:ILE:HG23	11	0.44
(1,465)	1:39:A:ILE:HD12	1:89:A:ILE:HG21	11	0.44
(1,465)	1:39:A:ILE:HD12	1:89:A:ILE:HG22	11	0.44
(1,465)	1:39:A:ILE:HD12	1:89:A:ILE:HG23	11	0.44
(1,465)	1:39:A:ILE:HD13	1:89:A:ILE:HG21	11	0.44
(1,465)	1:39:A:ILE:HD13	1:89:A:ILE:HG22	11	0.44
(1,465)	1:39:A:ILE:HD13	1:89:A:ILE:HG23	11	0.44
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	11	0.44
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	11	0.44
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	11	0.44
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB1	5	0.44
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB2	5	0.44
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB3	5	0.44
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB1	5	0.44
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB2	5	0.44
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB3	5	0.44
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB1	5	0.44
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB2	5	0.44
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB3	5	0.44
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB1	8	0.44
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB2	8	0.44
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB3	8	0.44
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB1	8	0.44
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB2	8	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB3	8	0.44
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB1	8	0.44
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB2	8	0.44
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB3	8	0.44
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB1	17	0.44
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB2	17	0.44
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB3	17	0.44
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB1	17	0.44
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB2	17	0.44
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB3	17	0.44
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB1	17	0.44
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB2	17	0.44
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB3	17	0.44
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB1	20	0.44
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB2	20	0.44
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB3	20	0.44
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB1	20	0.44
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB2	20	0.44
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB3	20	0.44
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB1	20	0.44
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB2	20	0.44
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB3	20	0.44
(1,387)	1:19:A:ILE:HG21	1:48:A:ALA:HB1	14	0.44
(1,387)	1:19:A:ILE:HG21	1:48:A:ALA:HB2	14	0.44
(1,387)	1:19:A:ILE:HG21	1:48:A:ALA:HB3	14	0.44
(1,387)	1:19:A:ILE:HG22	1:48:A:ALA:HB1	14	0.44
(1,387)	1:19:A:ILE:HG22	1:48:A:ALA:HB2	14	0.44
(1,387)	1:19:A:ILE:HG22	1:48:A:ALA:HB3	14	0.44
(1,387)	1:19:A:ILE:HG23	1:48:A:ALA:HB1	14	0.44
(1,387)	1:19:A:ILE:HG23	1:48:A:ALA:HB2	14	0.44
(1,387)	1:19:A:ILE:HG23	1:48:A:ALA:HB3	14	0.44
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	9	0.44
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	9	0.44
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD11	3	0.44
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD12	3	0.44
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD13	3	0.44
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	9	0.44
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	9	0.44
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	9	0.44
(1,19)	1:39:A:ILE:HG21	1:40:A:SER:HB2	5	0.44
(1,19)	1:39:A:ILE:HG21	1:40:A:SER:HB3	5	0.44
(1,19)	1:39:A:ILE:HG22	1:40:A:SER:HB2	5	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,19)	1:39:A:ILE:HG22	1:40:A:SER:HB3	5	0.44
(1,19)	1:39:A:ILE:HG23	1:40:A:SER:HB2	5	0.44
(1,19)	1:39:A:ILE:HG23	1:40:A:SER:HB3	5	0.44
(1,1612)	1:61:A:VAL:HG11	1:62:A:ASN:H	20	0.43
(1,1612)	1:61:A:VAL:HG12	1:62:A:ASN:H	20	0.43
(1,1612)	1:61:A:VAL:HG13	1:62:A:ASN:H	20	0.43
(1,1612)	1:61:A:VAL:HG21	1:62:A:ASN:H	20	0.43
(1,1612)	1:61:A:VAL:HG22	1:62:A:ASN:H	20	0.43
(1,1612)	1:61:A:VAL:HG23	1:62:A:ASN:H	20	0.43
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	3	0.43
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	3	0.43
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	3	0.43
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	3	0.43
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	3	0.43
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	3	0.43
(1,1565)	1:36:A:SER:HB2	1:68:A:ASN:H	19	0.43
(1,1565)	1:36:A:SER:HB3	1:68:A:ASN:H	19	0.43
(1,1521)	1:11:A:ARG:HD2	1:79:A:ARG:H	2	0.43
(1,1521)	1:11:A:ARG:HD3	1:79:A:ARG:H	2	0.43
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD11	5	0.43
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD12	5	0.43
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD13	5	0.43
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD21	5	0.43
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD22	5	0.43
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD23	5	0.43
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE2	8	0.43
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE3	8	0.43
(1,1423)	1:86:A:LYS:HE2	1:87:A:ILE:H	19	0.43
(1,1423)	1:86:A:LYS:HE3	1:87:A:ILE:H	19	0.43
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD2	4	0.43
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD3	4	0.43
(1,1094)	1:54:A:GLU:HG2	1:55:A:ASN:H	19	0.43
(1,1094)	1:54:A:GLU:HG3	1:55:A:ASN:H	19	0.43
(1,937)	1:39:A:ILE:HD11	1:58:A:VAL:H	8	0.43
(1,937)	1:39:A:ILE:HD12	1:58:A:VAL:H	8	0.43
(1,937)	1:39:A:ILE:HD13	1:58:A:VAL:H	8	0.43
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	10	0.43
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	10	0.43
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD11	4	0.43
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD12	4	0.43
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD13	4	0.43
(1,793)	1:22:A:SER:H	1:39:A:ILE:HG12	5	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,793)	1:22:A:SER:H	1:39:A:ILE:HG13	5	0.43
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	1	0.43
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	1	0.43
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	1	0.43
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD11	4	0.43
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD12	4	0.43
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD13	4	0.43
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD11	5	0.43
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD12	5	0.43
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD13	5	0.43
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD11	9	0.43
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD12	9	0.43
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD13	9	0.43
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE2	4	0.43
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE3	4	0.43
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG21	15	0.43
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG22	15	0.43
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG23	15	0.43
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG2	17	0.43
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG3	17	0.43
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG2	17	0.43
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG3	17	0.43
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG2	17	0.43
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG3	17	0.43
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD11	11	0.43
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD12	11	0.43
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD13	11	0.43
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD11	11	0.43
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD12	11	0.43
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD13	11	0.43
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD11	11	0.43
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD12	11	0.43
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD13	11	0.43
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG11	7	0.43
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG12	7	0.43
(1,408)	1:25:A:ARG:HG2	1:69:A:VAL:HG13	7	0.43
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG11	7	0.43
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG12	7	0.43
(1,408)	1:25:A:ARG:HG3	1:69:A:VAL:HG13	7	0.43
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB1	2	0.43
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB2	2	0.43
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB3	2	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB1	2	0.43
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB2	2	0.43
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB3	2	0.43
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB1	2	0.43
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB2	2	0.43
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB3	2	0.43
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB1	3	0.43
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB2	3	0.43
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB3	3	0.43
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB1	3	0.43
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB2	3	0.43
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB3	3	0.43
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB1	3	0.43
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB2	3	0.43
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB3	3	0.43
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB1	16	0.43
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB2	16	0.43
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB3	16	0.43
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB1	16	0.43
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB2	16	0.43
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB3	16	0.43
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB1	16	0.43
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB2	16	0.43
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB3	16	0.43
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG11	2	0.43
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG12	2	0.43
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG13	2	0.43
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB1	14	0.43
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB2	14	0.43
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB3	14	0.43
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB1	14	0.43
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB2	14	0.43
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB3	14	0.43
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB1	14	0.43
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB2	14	0.43
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB3	14	0.43
(1,328)	1:43:A:LEU:HD11	1:47:A:PRO:HG2	10	0.43
(1,328)	1:43:A:LEU:HD12	1:47:A:PRO:HG2	10	0.43
(1,328)	1:43:A:LEU:HD13	1:47:A:PRO:HG2	10	0.43
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG2	9	0.43
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG3	9	0.43
(1,106)	1:25:A:ARG:HG2	1:70:A:GLU:HA	12	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,106)	1:25:A:ARG:HG3	1:70:A:GLU:HA	12	0.43
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD2	18	0.43
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD3	18	0.43
(1,1674)	1:84:A:ASN:HB2	1:86:A:LYS:H	12	0.42
(1,1674)	1:84:A:ASN:HB3	1:86:A:LYS:H	12	0.42
(1,1574)	1:38:A:VAL:HG11	1:58:A:VAL:H	8	0.42
(1,1574)	1:38:A:VAL:HG12	1:58:A:VAL:H	8	0.42
(1,1574)	1:38:A:VAL:HG13	1:58:A:VAL:H	8	0.42
(1,1574)	1:38:A:VAL:HG21	1:58:A:VAL:H	8	0.42
(1,1574)	1:38:A:VAL:HG22	1:58:A:VAL:H	8	0.42
(1,1574)	1:38:A:VAL:HG23	1:58:A:VAL:H	8	0.42
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	9	0.42
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	9	0.42
(1,1372)	1:79:A:ARG:HD2	1:80:A:LYS:H	9	0.42
(1,1372)	1:79:A:ARG:HD3	1:80:A:LYS:H	9	0.42
(1,1269)	1:70:A:GLU:HG2	1:73:A:PHE:H	12	0.42
(1,1269)	1:70:A:GLU:HG3	1:73:A:PHE:H	12	0.42
(1,1255)	1:69:A:VAL:HG21	1:74:A:ALA:H	19	0.42
(1,1255)	1:69:A:VAL:HG22	1:74:A:ALA:H	19	0.42
(1,1255)	1:69:A:VAL:HG23	1:74:A:ALA:H	19	0.42
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	10	0.42
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	10	0.42
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	10	0.42
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG2	9	0.42
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG3	9	0.42
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	9	0.42
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	9	0.42
(1,860)	1:25:A:ARG:HD2	1:70:A:GLU:H	4	0.42
(1,860)	1:25:A:ARG:HD3	1:70:A:GLU:H	4	0.42
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD11	17	0.42
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD12	17	0.42
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD13	17	0.42
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE2	18	0.42
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE3	18	0.42
(1,614)	1:6:A:THR:HG21	1:89:A:ILE:H	17	0.42
(1,614)	1:6:A:THR:HG22	1:89:A:ILE:H	17	0.42
(1,614)	1:6:A:THR:HG23	1:89:A:ILE:H	17	0.42
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG21	20	0.42
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG22	20	0.42
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG23	20	0.42
(1,467)	1:37:A:ILE:HD11	1:74:A:ALA:H	13	0.42
(1,467)	1:37:A:ILE:HD12	1:74:A:ALA:H	13	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,467)	1:37:A:ILE:HD13	1:74:A:ALA:H	13	0.42
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG2	16	0.42
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG3	16	0.42
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG2	16	0.42
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG3	16	0.42
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG2	16	0.42
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG3	16	0.42
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD11	5	0.42
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD12	5	0.42
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD13	5	0.42
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD11	5	0.42
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD12	5	0.42
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD13	5	0.42
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD11	5	0.42
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD12	5	0.42
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD13	5	0.42
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	11	0.42
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	11	0.42
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	11	0.42
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB1	15	0.42
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB2	15	0.42
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB3	15	0.42
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB1	15	0.42
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB2	15	0.42
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB3	15	0.42
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB1	15	0.42
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB2	15	0.42
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB3	15	0.42
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG2	15	0.42
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG3	15	0.42
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG2	15	0.42
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG3	15	0.42
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG2	15	0.42
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG3	15	0.42
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG2	17	0.42
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG3	17	0.42
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG2	17	0.42
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG3	17	0.42
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG2	17	0.42
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG3	17	0.42
(1,317)	1:78:A:LEU:HD21	1:79:A:ARG:HG2	13	0.42
(1,317)	1:78:A:LEU:HD21	1:79:A:ARG:HG3	13	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,317)	1:78:A:LEU:HD22	1:79:A:ARG:HG2	13	0.42
(1,317)	1:78:A:LEU:HD22	1:79:A:ARG:HG3	13	0.42
(1,317)	1:78:A:LEU:HD23	1:79:A:ARG:HG2	13	0.42
(1,317)	1:78:A:LEU:HD23	1:79:A:ARG:HG3	13	0.42
(1,290)	1:44:A:LYS:HD2	1:49:A:GLU:HB3	19	0.42
(1,290)	1:44:A:LYS:HD3	1:49:A:GLU:HB3	19	0.42
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD11	14	0.42
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD12	14	0.42
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD13	14	0.42
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD11	14	0.42
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD12	14	0.42
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD13	14	0.42
(1,236)	1:89:A:ILE:HD11	1:91:A:ARG:HB2	4	0.42
(1,236)	1:89:A:ILE:HD12	1:91:A:ARG:HB2	4	0.42
(1,236)	1:89:A:ILE:HD13	1:91:A:ARG:HB2	4	0.42
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE2	19	0.42
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE3	19	0.42
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE2	19	0.42
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE3	19	0.42
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE2	19	0.42
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE3	19	0.42
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	18	0.42
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	18	0.42
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	18	0.42
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	18	0.42
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	12	0.42
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	12	0.42
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	12	0.42
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	17	0.42
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	17	0.42
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	17	0.42
(1,1574)	1:38:A:VAL:HG11	1:58:A:VAL:H	7	0.41
(1,1574)	1:38:A:VAL:HG12	1:58:A:VAL:H	7	0.41
(1,1574)	1:38:A:VAL:HG13	1:58:A:VAL:H	7	0.41
(1,1574)	1:38:A:VAL:HG21	1:58:A:VAL:H	7	0.41
(1,1574)	1:38:A:VAL:HG22	1:58:A:VAL:H	7	0.41
(1,1574)	1:38:A:VAL:HG23	1:58:A:VAL:H	7	0.41
(1,1564)	1:34:A:GLU:HG2	1:36:A:SER:H	10	0.41
(1,1564)	1:34:A:GLU:HG3	1:36:A:SER:H	10	0.41
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	17	0.41
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	17	0.41
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	17	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	17	0.41
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	17	0.41
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	17	0.41
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD2	7	0.41
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD3	7	0.41
(1,1358)	1:79:A:ARG:HG2	1:80:A:LYS:H	8	0.41
(1,1358)	1:79:A:ARG:HG3	1:80:A:LYS:H	8	0.41
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	3	0.41
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	3	0.41
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD11	6	0.41
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD12	6	0.41
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD13	6	0.41
(1,852)	1:25:A:ARG:HG2	1:26:A:ASP:H	8	0.41
(1,852)	1:25:A:ARG:HG3	1:26:A:ASP:H	8	0.41
(1,793)	1:22:A:SER:H	1:39:A:ILE:HG12	12	0.41
(1,793)	1:22:A:SER:H	1:39:A:ILE:HG13	12	0.41
(1,781)	1:21:A:ILE:HG21	1:75:A:VAL:H	14	0.41
(1,781)	1:21:A:ILE:HG22	1:75:A:VAL:H	14	0.41
(1,781)	1:21:A:ILE:HG23	1:75:A:VAL:H	14	0.41
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG2	1	0.41
(1,577)	1:4:A:GLN:H	1:90:A:ARG:HG3	1	0.41
(1,504)	1:88:A:THR:HG21	1:89:A:ILE:HA	5	0.41
(1,504)	1:88:A:THR:HG22	1:89:A:ILE:HA	5	0.41
(1,504)	1:88:A:THR:HG23	1:89:A:ILE:HA	5	0.41
(1,444)	1:21:A:ILE:HD11	1:74:A:ALA:H	3	0.41
(1,444)	1:21:A:ILE:HD12	1:74:A:ALA:H	3	0.41
(1,444)	1:21:A:ILE:HD13	1:74:A:ALA:H	3	0.41
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	13	0.41
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	13	0.41
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	13	0.41
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB1	19	0.41
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB2	19	0.41
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB3	19	0.41
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB1	19	0.41
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB2	19	0.41
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB3	19	0.41
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB1	19	0.41
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB2	19	0.41
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB3	19	0.41
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	1	0.41
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	1	0.41
(1,134)	1:35:A:THR:HG21	1:68:A:ASN:HA	7	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,134)	1:35:A:THR:HG22	1:68:A:ASN:HA	7	0.41
(1,134)	1:35:A:THR:HG23	1:68:A:ASN:HA	7	0.41
(1,95)	1:77:A:GLN:HA	1:80:A:LYS:HD2	10	0.41
(1,95)	1:77:A:GLN:HA	1:80:A:LYS:HD3	10	0.41
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	4	0.41
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	4	0.41
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG21	12	0.41
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG22	12	0.41
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG23	12	0.41
(1,64)	1:21:A:ILE:HD11	1:39:A:ILE:HA	9	0.41
(1,64)	1:21:A:ILE:HD12	1:39:A:ILE:HA	9	0.41
(1,64)	1:21:A:ILE:HD13	1:39:A:ILE:HA	9	0.41
(1,1601)	1:52:A:LEU:HD11	1:87:A:ILE:H	14	0.4
(1,1601)	1:52:A:LEU:HD12	1:87:A:ILE:H	14	0.4
(1,1601)	1:52:A:LEU:HD13	1:87:A:ILE:H	14	0.4
(1,1601)	1:52:A:LEU:HD21	1:87:A:ILE:H	14	0.4
(1,1601)	1:52:A:LEU:HD22	1:87:A:ILE:H	14	0.4
(1,1601)	1:52:A:LEU:HD23	1:87:A:ILE:H	14	0.4
(1,1564)	1:34:A:GLU:HG2	1:36:A:SER:H	18	0.4
(1,1564)	1:34:A:GLU:HG3	1:36:A:SER:H	18	0.4
(1,1492)	1:2:A:TRP:HB2	1:91:A:ARG:H	19	0.4
(1,1492)	1:2:A:TRP:HB3	1:91:A:ARG:H	19	0.4
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG2	10	0.4
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG3	10	0.4
(1,1269)	1:70:A:GLU:HG2	1:73:A:PHE:H	13	0.4
(1,1269)	1:70:A:GLU:HG3	1:73:A:PHE:H	13	0.4
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	10	0.4
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	10	0.4
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	10	0.4
(1,1108)	1:57:A:ARG:H	1:57:A:ARG:HD2	14	0.4
(1,1108)	1:57:A:ARG:H	1:57:A:ARG:HD3	14	0.4
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	1	0.4
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	1	0.4
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	1	0.4
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG11	13	0.4
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG12	13	0.4
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG13	13	0.4
(1,838)	1:25:A:ARG:H	1:69:A:VAL:HG21	16	0.4
(1,838)	1:25:A:ARG:H	1:69:A:VAL:HG22	16	0.4
(1,838)	1:25:A:ARG:H	1:69:A:VAL:HG23	16	0.4
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD11	13	0.4
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD12	13	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD13	13	0.4
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	6	0.4
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	6	0.4
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	6	0.4
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB1	14	0.4
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB2	14	0.4
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB3	14	0.4
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB1	14	0.4
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB2	14	0.4
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB3	14	0.4
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB1	14	0.4
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB2	14	0.4
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB3	14	0.4
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG2	6	0.4
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG3	6	0.4
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG2	6	0.4
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG3	6	0.4
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG2	6	0.4
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG3	6	0.4
(1,317)	1:78:A:LEU:HD21	1:79:A:ARG:HG2	18	0.4
(1,317)	1:78:A:LEU:HD21	1:79:A:ARG:HG3	18	0.4
(1,317)	1:78:A:LEU:HD22	1:79:A:ARG:HG2	18	0.4
(1,317)	1:78:A:LEU:HD22	1:79:A:ARG:HG3	18	0.4
(1,317)	1:78:A:LEU:HD23	1:79:A:ARG:HG2	18	0.4
(1,317)	1:78:A:LEU:HD23	1:79:A:ARG:HG3	18	0.4
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	19	0.4
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	19	0.4
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	19	0.4
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE2	13	0.4
(1,201)	1:76:A:GLN:HG2	1:80:A:LYS:HE3	13	0.4
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD2	16	0.4
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD3	16	0.4
(1,95)	1:77:A:GLN:HA	1:80:A:LYS:HD2	19	0.4
(1,95)	1:77:A:GLN:HA	1:80:A:LYS:HD3	19	0.4
(1,64)	1:21:A:ILE:HD11	1:39:A:ILE:HA	17	0.4
(1,64)	1:21:A:ILE:HD12	1:39:A:ILE:HA	17	0.4
(1,64)	1:21:A:ILE:HD13	1:39:A:ILE:HA	17	0.4
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD21	9	0.4
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD22	9	0.4
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD23	9	0.4
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	7	0.4
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	7	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	7	0.4
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB2	7	0.39
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB3	7	0.39
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB2	7	0.39
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB3	7	0.39
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB2	17	0.39
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB3	17	0.39
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB2	17	0.39
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB3	17	0.39
(1,1612)	1:61:A:VAL:HG11	1:62:A:ASN:H	10	0.39
(1,1612)	1:61:A:VAL:HG12	1:62:A:ASN:H	10	0.39
(1,1612)	1:61:A:VAL:HG13	1:62:A:ASN:H	10	0.39
(1,1612)	1:61:A:VAL:HG21	1:62:A:ASN:H	10	0.39
(1,1612)	1:61:A:VAL:HG22	1:62:A:ASN:H	10	0.39
(1,1612)	1:61:A:VAL:HG23	1:62:A:ASN:H	10	0.39
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	7	0.39
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	7	0.39
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	7	0.39
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	7	0.39
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	7	0.39
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	7	0.39
(1,1584)	1:42:A:VAL:HG11	1:49:A:GLU:HA	5	0.39
(1,1584)	1:42:A:VAL:HG12	1:49:A:GLU:HA	5	0.39
(1,1584)	1:42:A:VAL:HG13	1:49:A:GLU:HA	5	0.39
(1,1584)	1:42:A:VAL:HG21	1:49:A:GLU:HA	5	0.39
(1,1584)	1:42:A:VAL:HG22	1:49:A:GLU:HA	5	0.39
(1,1584)	1:42:A:VAL:HG23	1:49:A:GLU:HA	5	0.39
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB2	7	0.39
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB3	7	0.39
(1,1269)	1:70:A:GLU:HG2	1:73:A:PHE:H	19	0.39
(1,1269)	1:70:A:GLU:HG3	1:73:A:PHE:H	19	0.39
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG2	9	0.39
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG3	9	0.39
(1,1111)	1:57:A:ARG:H	1:91:A:ARG:HG2	10	0.39
(1,1111)	1:57:A:ARG:H	1:91:A:ARG:HG3	10	0.39
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG11	14	0.39
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG12	14	0.39
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG13	14	0.39
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG11	20	0.39
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG12	20	0.39
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG13	20	0.39
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	10	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	10	0.39
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	10	0.39
(1,858)	1:25:A:ARG:HD2	1:27:A:ASN:H	7	0.39
(1,858)	1:25:A:ARG:HD3	1:27:A:ASN:H	7	0.39
(1,856)	1:25:A:ARG:HG2	1:70:A:GLU:H	6	0.39
(1,856)	1:25:A:ARG:HG3	1:70:A:GLU:H	6	0.39
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD11	17	0.39
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD12	17	0.39
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD13	17	0.39
(1,781)	1:21:A:ILE:HG21	1:75:A:VAL:H	18	0.39
(1,781)	1:21:A:ILE:HG22	1:75:A:VAL:H	18	0.39
(1,781)	1:21:A:ILE:HG23	1:75:A:VAL:H	18	0.39
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD11	14	0.39
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD12	14	0.39
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD13	14	0.39
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE2	2	0.39
(1,701)	1:80:A:LYS:H	1:80:A:LYS:HE3	2	0.39
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD11	16	0.39
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD12	16	0.39
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD13	16	0.39
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD11	16	0.39
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD12	16	0.39
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD13	16	0.39
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD11	16	0.39
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD12	16	0.39
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD13	16	0.39
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG2	19	0.39
(1,453)	1:1:A:ILE:HD11	1:3:A:GLU:HG3	19	0.39
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG2	19	0.39
(1,453)	1:1:A:ILE:HD12	1:3:A:GLU:HG3	19	0.39
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG2	19	0.39
(1,453)	1:1:A:ILE:HD13	1:3:A:GLU:HG3	19	0.39
(1,442)	1:89:A:ILE:HD11	1:91:A:ARG:HB3	7	0.39
(1,442)	1:89:A:ILE:HD12	1:91:A:ARG:HB3	7	0.39
(1,442)	1:89:A:ILE:HD13	1:91:A:ARG:HB3	7	0.39
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	17	0.39
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	17	0.39
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	17	0.39
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	11	0.39
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	11	0.39
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	11	0.39
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB1	1	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB2	1	0.39
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB3	1	0.39
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB1	1	0.39
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB2	1	0.39
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB3	1	0.39
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB1	1	0.39
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB2	1	0.39
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB3	1	0.39
(1,313)	1:52:A:LEU:HD11	1:89:A:ILE:HB	17	0.39
(1,313)	1:52:A:LEU:HD12	1:89:A:ILE:HB	17	0.39
(1,313)	1:52:A:LEU:HD13	1:89:A:ILE:HB	17	0.39
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD11	10	0.39
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD12	10	0.39
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD13	10	0.39
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD11	10	0.39
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD12	10	0.39
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD13	10	0.39
(1,86)	1:39:A:ILE:HD11	1:54:A:GLU:HA	6	0.39
(1,86)	1:39:A:ILE:HD12	1:54:A:GLU:HA	6	0.39
(1,86)	1:39:A:ILE:HD13	1:54:A:GLU:HA	6	0.39
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG21	14	0.39
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG22	14	0.39
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG23	14	0.39
(1,12)	1:75:A:VAL:HA	1:79:A:ARG:HG2	13	0.39
(1,12)	1:75:A:VAL:HA	1:79:A:ARG:HG3	13	0.39
(1,1652)	1:68:A:ASN:HB2	1:69:A:VAL:HG11	16	0.38
(1,1652)	1:68:A:ASN:HB2	1:69:A:VAL:HG12	16	0.38
(1,1652)	1:68:A:ASN:HB2	1:69:A:VAL:HG13	16	0.38
(1,1652)	1:68:A:ASN:HB3	1:69:A:VAL:HG11	16	0.38
(1,1652)	1:68:A:ASN:HB3	1:69:A:VAL:HG12	16	0.38
(1,1652)	1:68:A:ASN:HB3	1:69:A:VAL:HG13	16	0.38
(1,1619)	1:61:A:VAL:HG11	1:66:A:MET:HB2	13	0.38
(1,1619)	1:61:A:VAL:HG12	1:66:A:MET:HB2	13	0.38
(1,1619)	1:61:A:VAL:HG13	1:66:A:MET:HB2	13	0.38
(1,1619)	1:61:A:VAL:HG21	1:66:A:MET:HB2	13	0.38
(1,1619)	1:61:A:VAL:HG22	1:66:A:MET:HB2	13	0.38
(1,1619)	1:61:A:VAL:HG23	1:66:A:MET:HB2	13	0.38
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	19	0.38
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	19	0.38
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	19	0.38
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	19	0.38
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	19	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	19	0.38
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	1	0.38
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	1	0.38
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	1	0.38
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	1	0.38
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	1	0.38
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	1	0.38
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB2	11	0.38
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB3	11	0.38
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD11	9	0.38
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD12	9	0.38
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD13	9	0.38
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD21	9	0.38
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD22	9	0.38
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD23	9	0.38
(1,1255)	1:69:A:VAL:HG21	1:74:A:ALA:H	9	0.38
(1,1255)	1:69:A:VAL:HG22	1:74:A:ALA:H	9	0.38
(1,1255)	1:69:A:VAL:HG23	1:74:A:ALA:H	9	0.38
(1,1186)	1:61:A:VAL:HG11	1:64:A:VAL:H	17	0.38
(1,1186)	1:61:A:VAL:HG12	1:64:A:VAL:H	17	0.38
(1,1186)	1:61:A:VAL:HG13	1:64:A:VAL:H	17	0.38
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	4	0.38
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	4	0.38
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	4	0.38
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	19	0.38
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	19	0.38
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	19	0.38
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG11	17	0.38
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG12	17	0.38
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG13	17	0.38
(1,954)	1:39:A:ILE:HG21	1:41:A:ASP:H	6	0.38
(1,954)	1:39:A:ILE:HG22	1:41:A:ASP:H	6	0.38
(1,954)	1:39:A:ILE:HG23	1:41:A:ASP:H	6	0.38
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG11	5	0.38
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG12	5	0.38
(1,904)	1:37:A:ILE:H	1:58:A:VAL:HG13	5	0.38
(1,834)	1:39:A:ILE:HD11	1:53:A:GLN:H	9	0.38
(1,834)	1:39:A:ILE:HD12	1:53:A:GLN:H	9	0.38
(1,834)	1:39:A:ILE:HD13	1:53:A:GLN:H	9	0.38
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	4	0.38
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	4	0.38
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	4	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD11	15	0.38
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD12	15	0.38
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD13	15	0.38
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG21	7	0.38
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG22	7	0.38
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG23	7	0.38
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG11	10	0.38
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG12	10	0.38
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG13	10	0.38
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD11	2	0.38
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD12	2	0.38
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD13	2	0.38
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	3	0.38
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	3	0.38
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	3	0.38
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	3	0.38
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	3	0.38
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	3	0.38
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	6	0.38
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	6	0.38
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	6	0.38
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	7	0.38
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	7	0.38
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	7	0.38
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB1	12	0.38
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB2	12	0.38
(1,402)	1:58:A:VAL:HG21	1:59:A:ALA:HB3	12	0.38
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB1	12	0.38
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB2	12	0.38
(1,402)	1:58:A:VAL:HG22	1:59:A:ALA:HB3	12	0.38
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB1	12	0.38
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB2	12	0.38
(1,402)	1:58:A:VAL:HG23	1:59:A:ALA:HB3	12	0.38
(1,328)	1:43:A:LEU:HD11	1:47:A:PRO:HG2	5	0.38
(1,328)	1:43:A:LEU:HD12	1:47:A:PRO:HG2	5	0.38
(1,328)	1:43:A:LEU:HD13	1:47:A:PRO:HG2	5	0.38
(1,305)	1:86:A:LYS:HG3	1:87:A:ILE:HG12	8	0.38
(1,305)	1:86:A:LYS:HG3	1:87:A:ILE:HG13	8	0.38
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG21	20	0.38
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG22	20	0.38
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG23	20	0.38
(1,1612)	1:61:A:VAL:HG11	1:62:A:ASN:H	17	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1612)	1:61:A:VAL:HG12	1:62:A:ASN:H	17	0.37
(1,1612)	1:61:A:VAL:HG13	1:62:A:ASN:H	17	0.37
(1,1612)	1:61:A:VAL:HG21	1:62:A:ASN:H	17	0.37
(1,1612)	1:61:A:VAL:HG22	1:62:A:ASN:H	17	0.37
(1,1612)	1:61:A:VAL:HG23	1:62:A:ASN:H	17	0.37
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	4	0.37
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	4	0.37
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	4	0.37
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	4	0.37
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	4	0.37
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	4	0.37
(1,1423)	1:86:A:LYS:HE2	1:87:A:ILE:H	12	0.37
(1,1423)	1:86:A:LYS:HE3	1:87:A:ILE:H	12	0.37
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	14	0.37
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	14	0.37
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	20	0.37
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	20	0.37
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	3	0.37
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	3	0.37
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	3	0.37
(1,1201)	1:62:A:ASN:H	1:87:A:ILE:HG12	11	0.37
(1,1201)	1:62:A:ASN:H	1:87:A:ILE:HG13	11	0.37
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB2	5	0.37
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB3	5	0.37
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB2	7	0.37
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB3	7	0.37
(1,1072)	1:8:A:THR:HG21	1:87:A:ILE:H	15	0.37
(1,1072)	1:8:A:THR:HG22	1:87:A:ILE:H	15	0.37
(1,1072)	1:8:A:THR:HG23	1:87:A:ILE:H	15	0.37
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG11	10	0.37
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG12	10	0.37
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG13	10	0.37
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG11	11	0.37
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG12	11	0.37
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG13	11	0.37
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG11	12	0.37
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG12	12	0.37
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG13	12	0.37
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG11	19	0.37
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG12	19	0.37
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG13	19	0.37
(1,948)	1:38:A:VAL:HG21	1:39:A:ILE:H	7	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,948)	1:38:A:VAL:HG22	1:39:A:ILE:H	7	0.37
(1,948)	1:38:A:VAL:HG23	1:39:A:ILE:H	7	0.37
(1,858)	1:25:A:ARG:HD2	1:27:A:ASN:H	18	0.37
(1,858)	1:25:A:ARG:HD3	1:27:A:ASN:H	18	0.37
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG21	6	0.37
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG22	6	0.37
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG23	6	0.37
(1,782)	1:21:A:ILE:HD11	1:22:A:SER:H	8	0.37
(1,782)	1:21:A:ILE:HD12	1:22:A:SER:H	8	0.37
(1,782)	1:21:A:ILE:HD13	1:22:A:SER:H	8	0.37
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	7	0.37
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	7	0.37
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	7	0.37
(1,534)	1:37:A:ILE:HG12	1:66:A:MET:HA	12	0.37
(1,534)	1:37:A:ILE:HG13	1:66:A:MET:HA	12	0.37
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG11	8	0.37
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG12	8	0.37
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG13	8	0.37
(1,459)	1:52:A:LEU:HB2	1:87:A:ILE:HD11	9	0.37
(1,459)	1:52:A:LEU:HB2	1:87:A:ILE:HD12	9	0.37
(1,459)	1:52:A:LEU:HB2	1:87:A:ILE:HD13	9	0.37
(1,459)	1:52:A:LEU:HB3	1:87:A:ILE:HD11	9	0.37
(1,459)	1:52:A:LEU:HB3	1:87:A:ILE:HD12	9	0.37
(1,459)	1:52:A:LEU:HB3	1:87:A:ILE:HD13	9	0.37
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD11	12	0.37
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD12	12	0.37
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD13	12	0.37
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD11	12	0.37
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD12	12	0.37
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD13	12	0.37
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD11	12	0.37
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD12	12	0.37
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD13	12	0.37
(1,313)	1:52:A:LEU:HD11	1:89:A:ILE:HB	10	0.37
(1,313)	1:52:A:LEU:HD12	1:89:A:ILE:HB	10	0.37
(1,313)	1:52:A:LEU:HD13	1:89:A:ILE:HB	10	0.37
(1,313)	1:52:A:LEU:HD11	1:89:A:ILE:HB	20	0.37
(1,313)	1:52:A:LEU:HD12	1:89:A:ILE:HB	20	0.37
(1,313)	1:52:A:LEU:HD13	1:89:A:ILE:HB	20	0.37
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE2	4	0.37
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE3	4	0.37
(1,129)	1:60:A:MET:HE1	1:62:A:ASN:HA	10	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,129)	1:60:A:MET:HE2	1:62:A:ASN:HA	10	0.37
(1,129)	1:60:A:MET:HE3	1:62:A:ASN:HA	10	0.37
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD21	12	0.37
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD22	12	0.37
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD23	12	0.37
(1,1574)	1:38:A:VAL:HG11	1:58:A:VAL:H	16	0.36
(1,1574)	1:38:A:VAL:HG12	1:58:A:VAL:H	16	0.36
(1,1574)	1:38:A:VAL:HG13	1:58:A:VAL:H	16	0.36
(1,1574)	1:38:A:VAL:HG21	1:58:A:VAL:H	16	0.36
(1,1574)	1:38:A:VAL:HG22	1:58:A:VAL:H	16	0.36
(1,1574)	1:38:A:VAL:HG23	1:58:A:VAL:H	16	0.36
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	12	0.36
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	12	0.36
(1,1358)	1:79:A:ARG:HG2	1:80:A:LYS:H	17	0.36
(1,1358)	1:79:A:ARG:HG3	1:80:A:LYS:H	17	0.36
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	18	0.36
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	18	0.36
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	18	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG11	1	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG12	1	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG13	1	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG11	2	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG12	2	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG13	2	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG11	3	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG12	3	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG13	3	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG11	5	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG12	5	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG13	5	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG11	8	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG12	8	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG13	8	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG11	15	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG12	15	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG13	15	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG11	18	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG12	18	0.36
(1,956)	1:58:A:VAL:H	1:58:A:VAL:HG13	18	0.36
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	7	0.36
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	7	0.36
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	20	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	20	0.36
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	20	0.36
(1,614)	1:6:A:THR:HG21	1:89:A:ILE:H	15	0.36
(1,614)	1:6:A:THR:HG22	1:89:A:ILE:H	15	0.36
(1,614)	1:6:A:THR:HG23	1:89:A:ILE:H	15	0.36
(1,563)	1:3:A:GLU:H	1:91:A:ARG:HG2	3	0.36
(1,563)	1:3:A:GLU:H	1:91:A:ARG:HG3	3	0.36
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD11	10	0.36
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD12	10	0.36
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD13	10	0.36
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD11	10	0.36
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD12	10	0.36
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD13	10	0.36
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD11	10	0.36
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD12	10	0.36
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD13	10	0.36
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD11	10	0.36
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD12	10	0.36
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD13	10	0.36
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG11	12	0.36
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG12	12	0.36
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG13	12	0.36
(1,330)	1:7:A:VAL:HB	1:52:A:LEU:HD21	12	0.36
(1,330)	1:7:A:VAL:HB	1:52:A:LEU:HD22	12	0.36
(1,330)	1:7:A:VAL:HB	1:52:A:LEU:HD23	12	0.36
(1,328)	1:43:A:LEU:HD11	1:47:A:PRO:HG2	2	0.36
(1,328)	1:43:A:LEU:HD12	1:47:A:PRO:HG2	2	0.36
(1,328)	1:43:A:LEU:HD13	1:47:A:PRO:HG2	2	0.36
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD21	1	0.36
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD22	1	0.36
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD23	1	0.36
(1,313)	1:52:A:LEU:HD11	1:89:A:ILE:HB	6	0.36
(1,313)	1:52:A:LEU:HD12	1:89:A:ILE:HB	6	0.36
(1,313)	1:52:A:LEU:HD13	1:89:A:ILE:HB	6	0.36
(1,305)	1:86:A:LYS:HG3	1:87:A:ILE:HG12	11	0.36
(1,305)	1:86:A:LYS:HG3	1:87:A:ILE:HG13	11	0.36
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD2	15	0.36
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD3	15	0.36
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD11	5	0.36
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD12	5	0.36
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD13	5	0.36
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD11	5	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD12	5	0.36
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD13	5	0.36
(1,268)	1:60:A:MET:HG2	1:88:A:THR:HG21	20	0.36
(1,268)	1:60:A:MET:HG2	1:88:A:THR:HG22	20	0.36
(1,268)	1:60:A:MET:HG2	1:88:A:THR:HG23	20	0.36
(1,118)	1:37:A:ILE:HG12	1:74:A:ALA:HA	16	0.36
(1,118)	1:37:A:ILE:HG13	1:74:A:ALA:HA	16	0.36
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD21	8	0.36
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD22	8	0.36
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD23	8	0.36
(1,52)	1:1:A:ILE:HA	1:1:A:ILE:HD11	10	0.36
(1,52)	1:1:A:ILE:HA	1:1:A:ILE:HD12	10	0.36
(1,52)	1:1:A:ILE:HA	1:1:A:ILE:HD13	10	0.36
(1,52)	1:1:A:ILE:HA	1:1:A:ILE:HD11	11	0.36
(1,52)	1:1:A:ILE:HA	1:1:A:ILE:HD12	11	0.36
(1,52)	1:1:A:ILE:HA	1:1:A:ILE:HD13	11	0.36
(1,52)	1:1:A:ILE:HA	1:1:A:ILE:HD11	14	0.36
(1,52)	1:1:A:ILE:HA	1:1:A:ILE:HD12	14	0.36
(1,52)	1:1:A:ILE:HA	1:1:A:ILE:HD13	14	0.36
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG21	17	0.36
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG22	17	0.36
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG23	17	0.36
(1,1674)	1:84:A:ASN:HB2	1:86:A:LYS:H	13	0.35
(1,1674)	1:84:A:ASN:HB3	1:86:A:LYS:H	13	0.35
(1,1565)	1:36:A:SER:HB2	1:68:A:ASN:H	12	0.35
(1,1565)	1:36:A:SER:HB3	1:68:A:ASN:H	12	0.35
(1,1510)	1:10:A:HIS:HB2	1:12:A:ALA:H	17	0.35
(1,1510)	1:10:A:HIS:HB3	1:12:A:ALA:H	17	0.35
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	7	0.35
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	7	0.35
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	17	0.35
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	17	0.35
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG2	9	0.35
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG3	9	0.35
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG2	19	0.35
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG3	19	0.35
(1,1363)	1:79:A:ARG:H	1:79:A:ARG:HD2	3	0.35
(1,1363)	1:79:A:ARG:H	1:79:A:ARG:HD3	3	0.35
(1,1128)	1:58:A:VAL:HG21	1:89:A:ILE:H	1	0.35
(1,1128)	1:58:A:VAL:HG22	1:89:A:ILE:H	1	0.35
(1,1128)	1:58:A:VAL:HG23	1:89:A:ILE:H	1	0.35
(1,1111)	1:57:A:ARG:H	1:91:A:ARG:HG2	4	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1111)	1:57:A:ARG:H	1:91:A:ARG:HG3	4	0.35
(1,1094)	1:54:A:GLU:HG2	1:55:A:ASN:H	11	0.35
(1,1094)	1:54:A:GLU:HG3	1:55:A:ASN:H	11	0.35
(1,1089)	1:54:A:GLU:H	1:54:A:GLU:HG2	9	0.35
(1,1089)	1:54:A:GLU:H	1:54:A:GLU:HG3	9	0.35
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	17	0.35
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	17	0.35
(1,924)	1:69:A:VAL:H	1:69:A:VAL:HG11	16	0.35
(1,924)	1:69:A:VAL:H	1:69:A:VAL:HG12	16	0.35
(1,924)	1:69:A:VAL:H	1:69:A:VAL:HG13	16	0.35
(1,794)	1:22:A:SER:H	1:74:A:ALA:HB1	19	0.35
(1,794)	1:22:A:SER:H	1:74:A:ALA:HB2	19	0.35
(1,794)	1:22:A:SER:H	1:74:A:ALA:HB3	19	0.35
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD11	1	0.35
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD12	1	0.35
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD13	1	0.35
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD11	12	0.35
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD12	12	0.35
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD13	12	0.35
(1,690)	1:11:A:ARG:HB2	1:17:A:PHE:H	3	0.35
(1,690)	1:11:A:ARG:HB3	1:17:A:PHE:H	3	0.35
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG21	12	0.35
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG22	12	0.35
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG23	12	0.35
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG2	19	0.35
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG3	19	0.35
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG2	19	0.35
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG3	19	0.35
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG2	19	0.35
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG3	19	0.35
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	3	0.35
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	3	0.35
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	3	0.35
(1,413)	1:21:A:ILE:HG21	1:38:A:VAL:H	18	0.35
(1,413)	1:21:A:ILE:HG22	1:38:A:VAL:H	18	0.35
(1,413)	1:21:A:ILE:HG23	1:38:A:VAL:H	18	0.35
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	5	0.35
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	5	0.35
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	5	0.35
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD21	20	0.35
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD22	20	0.35
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD23	20	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE2	3	0.35
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE3	3	0.35
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE2	3	0.35
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE3	3	0.35
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE2	3	0.35
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE3	3	0.35
(1,170)	1:76:A:GLN:HA	1:79:A:ARG:HD2	14	0.35
(1,170)	1:76:A:GLN:HA	1:79:A:ARG:HD3	14	0.35
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG2	8	0.35
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG3	8	0.35
(1,64)	1:21:A:ILE:HD11	1:39:A:ILE:HA	1	0.35
(1,64)	1:21:A:ILE:HD12	1:39:A:ILE:HA	1	0.35
(1,64)	1:21:A:ILE:HD13	1:39:A:ILE:HA	1	0.35
(1,64)	1:21:A:ILE:HD11	1:39:A:ILE:HA	14	0.35
(1,64)	1:21:A:ILE:HD12	1:39:A:ILE:HA	14	0.35
(1,64)	1:21:A:ILE:HD13	1:39:A:ILE:HA	14	0.35
(1,52)	1:1:A:ILE:HA	1:1:A:ILE:HD11	1	0.35
(1,52)	1:1:A:ILE:HA	1:1:A:ILE:HD12	1	0.35
(1,52)	1:1:A:ILE:HA	1:1:A:ILE:HD13	1	0.35
(1,1647)	1:66:A:MET:HB2	1:67:A:ASP:HB2	14	0.34
(1,1647)	1:66:A:MET:HB2	1:67:A:ASP:HB3	14	0.34
(1,1601)	1:52:A:LEU:HD11	1:87:A:ILE:H	2	0.34
(1,1601)	1:52:A:LEU:HD12	1:87:A:ILE:H	2	0.34
(1,1601)	1:52:A:LEU:HD13	1:87:A:ILE:H	2	0.34
(1,1601)	1:52:A:LEU:HD21	1:87:A:ILE:H	2	0.34
(1,1601)	1:52:A:LEU:HD22	1:87:A:ILE:H	2	0.34
(1,1601)	1:52:A:LEU:HD23	1:87:A:ILE:H	2	0.34
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG11	10	0.34
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG12	10	0.34
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG13	10	0.34
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG21	10	0.34
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG22	10	0.34
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG23	10	0.34
(1,1504)	1:7:A:VAL:HG11	1:51:A:GLN:HA	10	0.34
(1,1504)	1:7:A:VAL:HG12	1:51:A:GLN:HA	10	0.34
(1,1504)	1:7:A:VAL:HG13	1:51:A:GLN:HA	10	0.34
(1,1504)	1:7:A:VAL:HG21	1:51:A:GLN:HA	10	0.34
(1,1504)	1:7:A:VAL:HG22	1:51:A:GLN:HA	10	0.34
(1,1504)	1:7:A:VAL:HG23	1:51:A:GLN:HA	10	0.34
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	10	0.34
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	10	0.34
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	10	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	10	0.34
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	10	0.34
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	10	0.34
(1,1444)	1:57:A:ARG:HB2	1:90:A:ARG:H	1	0.34
(1,1444)	1:57:A:ARG:HB3	1:90:A:ARG:H	1	0.34
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG2	10	0.34
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG3	10	0.34
(1,1358)	1:79:A:ARG:HG2	1:80:A:LYS:H	2	0.34
(1,1358)	1:79:A:ARG:HG3	1:80:A:LYS:H	2	0.34
(1,1358)	1:79:A:ARG:HG2	1:80:A:LYS:H	4	0.34
(1,1358)	1:79:A:ARG:HG3	1:80:A:LYS:H	4	0.34
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	9	0.34
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	9	0.34
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	9	0.34
(1,1269)	1:70:A:GLU:HG2	1:73:A:PHE:H	6	0.34
(1,1269)	1:70:A:GLU:HG3	1:73:A:PHE:H	6	0.34
(1,1213)	1:60:A:MET:HE1	1:63:A:GLY:H	4	0.34
(1,1213)	1:60:A:MET:HE2	1:63:A:GLY:H	4	0.34
(1,1213)	1:60:A:MET:HE3	1:63:A:GLY:H	4	0.34
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD2	8	0.34
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD3	8	0.34
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG2	14	0.34
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG3	14	0.34
(1,1108)	1:57:A:ARG:H	1:57:A:ARG:HD2	16	0.34
(1,1108)	1:57:A:ARG:H	1:57:A:ARG:HD3	16	0.34
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	14	0.34
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	14	0.34
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	14	0.34
(1,948)	1:38:A:VAL:HG21	1:39:A:ILE:H	9	0.34
(1,948)	1:38:A:VAL:HG22	1:39:A:ILE:H	9	0.34
(1,948)	1:38:A:VAL:HG23	1:39:A:ILE:H	9	0.34
(1,948)	1:38:A:VAL:HG21	1:39:A:ILE:H	19	0.34
(1,948)	1:38:A:VAL:HG22	1:39:A:ILE:H	19	0.34
(1,948)	1:38:A:VAL:HG23	1:39:A:ILE:H	19	0.34
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	17	0.34
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	17	0.34
(1,916)	1:37:A:ILE:HG21	1:38:A:VAL:H	12	0.34
(1,916)	1:37:A:ILE:HG22	1:38:A:VAL:H	12	0.34
(1,916)	1:37:A:ILE:HG23	1:38:A:VAL:H	12	0.34
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	10	0.34
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	10	0.34
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	10	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD11	7	0.34
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD12	7	0.34
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD13	7	0.34
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	20	0.34
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	20	0.34
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	20	0.34
(1,614)	1:6:A:THR:HG21	1:89:A:ILE:H	6	0.34
(1,614)	1:6:A:THR:HG22	1:89:A:ILE:H	6	0.34
(1,614)	1:6:A:THR:HG23	1:89:A:ILE:H	6	0.34
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG21	17	0.34
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG22	17	0.34
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG23	17	0.34
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG11	3	0.34
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG12	3	0.34
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG13	3	0.34
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD11	4	0.34
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD12	4	0.34
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD13	4	0.34
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB1	20	0.34
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB2	20	0.34
(1,448)	1:21:A:ILE:HD11	1:74:A:ALA:HB3	20	0.34
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB1	20	0.34
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB2	20	0.34
(1,448)	1:21:A:ILE:HD12	1:74:A:ALA:HB3	20	0.34
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB1	20	0.34
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB2	20	0.34
(1,448)	1:21:A:ILE:HD13	1:74:A:ALA:HB3	20	0.34
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD11	2	0.34
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD12	2	0.34
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD13	2	0.34
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD11	2	0.34
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD12	2	0.34
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD13	2	0.34
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD11	2	0.34
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD12	2	0.34
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD13	2	0.34
(1,422)	1:69:A:VAL:HG21	1:73:A:PHE:HD1	18	0.34
(1,422)	1:69:A:VAL:HG21	1:73:A:PHE:HD2	18	0.34
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	13	0.34
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	13	0.34
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	13	0.34
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	5	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	5	0.34
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	5	0.34
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	5	0.34
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD11	17	0.34
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD12	17	0.34
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD13	17	0.34
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	6	0.34
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	6	0.34
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	15	0.33
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	15	0.33
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	15	0.33
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	15	0.33
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	15	0.33
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	15	0.33
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	7	0.33
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	7	0.33
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	7	0.33
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	7	0.33
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	7	0.33
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	7	0.33
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB2	15	0.33
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB3	15	0.33
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD11	3	0.33
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD12	3	0.33
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD13	3	0.33
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE2	6	0.33
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE3	6	0.33
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD2	5	0.33
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD3	5	0.33
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG2	8	0.33
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG3	8	0.33
(1,1372)	1:79:A:ARG:HD2	1:80:A:LYS:H	1	0.33
(1,1372)	1:79:A:ARG:HD3	1:80:A:LYS:H	1	0.33
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	8	0.33
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	8	0.33
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	14	0.33
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	14	0.33
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	20	0.33
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	20	0.33
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	20	0.33
(1,1111)	1:57:A:ARG:H	1:91:A:ARG:HG2	2	0.33
(1,1111)	1:57:A:ARG:H	1:91:A:ARG:HG3	2	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD11	16	0.33
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD12	16	0.33
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD13	16	0.33
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	11	0.33
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	11	0.33
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	11	0.33
(1,537)	1:8:A:THR:HG21	1:84:A:ASN:HA	13	0.33
(1,537)	1:8:A:THR:HG22	1:84:A:ASN:HA	13	0.33
(1,537)	1:8:A:THR:HG23	1:84:A:ASN:HA	13	0.33
(1,492)	1:19:A:ILE:HA	1:39:A:ILE:HG21	5	0.33
(1,492)	1:19:A:ILE:HA	1:39:A:ILE:HG22	5	0.33
(1,492)	1:19:A:ILE:HA	1:39:A:ILE:HG23	5	0.33
(1,368)	1:4:A:GLN:HG2	1:88:A:THR:HG21	5	0.33
(1,368)	1:4:A:GLN:HG2	1:88:A:THR:HG22	5	0.33
(1,368)	1:4:A:GLN:HG2	1:88:A:THR:HG23	5	0.33
(1,317)	1:78:A:LEU:HD21	1:79:A:ARG:HG2	15	0.33
(1,317)	1:78:A:LEU:HD21	1:79:A:ARG:HG3	15	0.33
(1,317)	1:78:A:LEU:HD22	1:79:A:ARG:HG2	15	0.33
(1,317)	1:78:A:LEU:HD22	1:79:A:ARG:HG3	15	0.33
(1,317)	1:78:A:LEU:HD23	1:79:A:ARG:HG2	15	0.33
(1,317)	1:78:A:LEU:HD23	1:79:A:ARG:HG3	15	0.33
(1,313)	1:52:A:LEU:HD11	1:89:A:ILE:HB	12	0.33
(1,313)	1:52:A:LEU:HD12	1:89:A:ILE:HB	12	0.33
(1,313)	1:52:A:LEU:HD13	1:89:A:ILE:HB	12	0.33
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG2	6	0.33
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG3	6	0.33
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG2	6	0.33
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG3	6	0.33
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG21	19	0.33
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG22	19	0.33
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG23	19	0.33
(1,192)	1:8:A:THR:HG21	1:84:A:ASN:HB3	1	0.33
(1,192)	1:8:A:THR:HG22	1:84:A:ASN:HB3	1	0.33
(1,192)	1:8:A:THR:HG23	1:84:A:ASN:HB3	1	0.33
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD11	19	0.33
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD12	19	0.33
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD13	19	0.33
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD2	3	0.33
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD3	3	0.33
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	15	0.33
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	15	0.33
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG21	16	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG22	16	0.33
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG23	16	0.33
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG11	7	0.32
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG12	7	0.32
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG13	7	0.32
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG21	7	0.32
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG22	7	0.32
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG23	7	0.32
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG11	18	0.32
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG12	18	0.32
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG13	18	0.32
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG21	18	0.32
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG22	18	0.32
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG23	18	0.32
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	13	0.32
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	13	0.32
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	13	0.32
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	13	0.32
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	13	0.32
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	13	0.32
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	19	0.32
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	19	0.32
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	19	0.32
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	19	0.32
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	19	0.32
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	19	0.32
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	20	0.32
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	20	0.32
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	20	0.32
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	20	0.32
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	20	0.32
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	20	0.32
(1,1585)	1:42:A:VAL:HG11	1:49:A:GLU:HB2	2	0.32
(1,1585)	1:42:A:VAL:HG12	1:49:A:GLU:HB2	2	0.32
(1,1585)	1:42:A:VAL:HG13	1:49:A:GLU:HB2	2	0.32
(1,1585)	1:42:A:VAL:HG21	1:49:A:GLU:HB2	2	0.32
(1,1585)	1:42:A:VAL:HG22	1:49:A:GLU:HB2	2	0.32
(1,1585)	1:42:A:VAL:HG23	1:49:A:GLU:HB2	2	0.32
(1,1423)	1:86:A:LYS:HE2	1:87:A:ILE:H	7	0.32
(1,1423)	1:86:A:LYS:HE3	1:87:A:ILE:H	7	0.32
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	10	0.32
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	10	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	19	0.32
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	19	0.32
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE2	20	0.32
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE3	20	0.32
(1,1358)	1:79:A:ARG:HG2	1:80:A:LYS:H	20	0.32
(1,1358)	1:79:A:ARG:HG3	1:80:A:LYS:H	20	0.32
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	17	0.32
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	17	0.32
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD2	16	0.32
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD3	16	0.32
(1,1186)	1:61:A:VAL:HG11	1:64:A:VAL:H	10	0.32
(1,1186)	1:61:A:VAL:HG12	1:64:A:VAL:H	10	0.32
(1,1186)	1:61:A:VAL:HG13	1:64:A:VAL:H	10	0.32
(1,1111)	1:57:A:ARG:H	1:91:A:ARG:HG2	1	0.32
(1,1111)	1:57:A:ARG:H	1:91:A:ARG:HG3	1	0.32
(1,1108)	1:57:A:ARG:H	1:57:A:ARG:HD2	12	0.32
(1,1108)	1:57:A:ARG:H	1:57:A:ARG:HD3	12	0.32
(1,1108)	1:57:A:ARG:H	1:57:A:ARG:HD2	19	0.32
(1,1108)	1:57:A:ARG:H	1:57:A:ARG:HD3	19	0.32
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD11	2	0.32
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD12	2	0.32
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD13	2	0.32
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	17	0.32
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	17	0.32
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	17	0.32
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	3	0.32
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	3	0.32
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	3	0.32
(1,394)	1:17:A:PHE:HD1	1:85:A:ALA:HB1	15	0.32
(1,394)	1:17:A:PHE:HD1	1:85:A:ALA:HB2	15	0.32
(1,394)	1:17:A:PHE:HD1	1:85:A:ALA:HB3	15	0.32
(1,394)	1:17:A:PHE:HD2	1:85:A:ALA:HB1	15	0.32
(1,394)	1:17:A:PHE:HD2	1:85:A:ALA:HB2	15	0.32
(1,394)	1:17:A:PHE:HD2	1:85:A:ALA:HB3	15	0.32
(1,330)	1:7:A:VAL:HB	1:52:A:LEU:HD21	14	0.32
(1,330)	1:7:A:VAL:HB	1:52:A:LEU:HD22	14	0.32
(1,330)	1:7:A:VAL:HB	1:52:A:LEU:HD23	14	0.32
(1,305)	1:86:A:LYS:HG3	1:87:A:ILE:HG12	9	0.32
(1,305)	1:86:A:LYS:HG3	1:87:A:ILE:HG13	9	0.32
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG2	7	0.32
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG3	7	0.32
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG2	7	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG3	7	0.32
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD11	11	0.32
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD12	11	0.32
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD13	11	0.32
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD11	11	0.32
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD12	11	0.32
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD13	11	0.32
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG21	19	0.32
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG22	19	0.32
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG23	19	0.32
(1,1601)	1:52:A:LEU:HD11	1:87:A:ILE:H	8	0.31
(1,1601)	1:52:A:LEU:HD12	1:87:A:ILE:H	8	0.31
(1,1601)	1:52:A:LEU:HD13	1:87:A:ILE:H	8	0.31
(1,1601)	1:52:A:LEU:HD21	1:87:A:ILE:H	8	0.31
(1,1601)	1:52:A:LEU:HD22	1:87:A:ILE:H	8	0.31
(1,1601)	1:52:A:LEU:HD23	1:87:A:ILE:H	8	0.31
(1,1584)	1:42:A:VAL:HG11	1:49:A:GLU:HA	13	0.31
(1,1584)	1:42:A:VAL:HG12	1:49:A:GLU:HA	13	0.31
(1,1584)	1:42:A:VAL:HG13	1:49:A:GLU:HA	13	0.31
(1,1584)	1:42:A:VAL:HG21	1:49:A:GLU:HA	13	0.31
(1,1584)	1:42:A:VAL:HG22	1:49:A:GLU:HA	13	0.31
(1,1584)	1:42:A:VAL:HG23	1:49:A:GLU:HA	13	0.31
(1,1521)	1:11:A:ARG:HD2	1:79:A:ARG:H	5	0.31
(1,1521)	1:11:A:ARG:HD3	1:79:A:ARG:H	5	0.31
(1,1504)	1:7:A:VAL:HG11	1:51:A:GLN:HA	8	0.31
(1,1504)	1:7:A:VAL:HG12	1:51:A:GLN:HA	8	0.31
(1,1504)	1:7:A:VAL:HG13	1:51:A:GLN:HA	8	0.31
(1,1504)	1:7:A:VAL:HG21	1:51:A:GLN:HA	8	0.31
(1,1504)	1:7:A:VAL:HG22	1:51:A:GLN:HA	8	0.31
(1,1504)	1:7:A:VAL:HG23	1:51:A:GLN:HA	8	0.31
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD11	1	0.31
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD12	1	0.31
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD13	1	0.31
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD11	15	0.31
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD12	15	0.31
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD13	15	0.31
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD2	18	0.31
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD3	18	0.31
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	1	0.31
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	1	0.31
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	1	0.31
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	3	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	3	0.31
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	3	0.31
(1,1148)	1:59:A:ALA:HB1	1:67:A:ASP:H	14	0.31
(1,1148)	1:59:A:ALA:HB2	1:67:A:ASP:H	14	0.31
(1,1148)	1:59:A:ALA:HB3	1:67:A:ASP:H	14	0.31
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	14	0.31
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	14	0.31
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	14	0.31
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG21	3	0.31
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG22	3	0.31
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG23	3	0.31
(1,782)	1:21:A:ILE:HD11	1:22:A:SER:H	13	0.31
(1,782)	1:21:A:ILE:HD12	1:22:A:SER:H	13	0.31
(1,782)	1:21:A:ILE:HD13	1:22:A:SER:H	13	0.31
(1,708)	1:12:A:ALA:HB1	1:16:A:GLY:H	12	0.31
(1,708)	1:12:A:ALA:HB2	1:16:A:GLY:H	12	0.31
(1,708)	1:12:A:ALA:HB3	1:16:A:GLY:H	12	0.31
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG2	6	0.31
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG3	6	0.31
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG11	14	0.31
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG12	14	0.31
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG13	14	0.31
(1,470)	1:37:A:ILE:HD11	1:69:A:VAL:HG21	4	0.31
(1,470)	1:37:A:ILE:HD11	1:69:A:VAL:HG22	4	0.31
(1,470)	1:37:A:ILE:HD11	1:69:A:VAL:HG23	4	0.31
(1,470)	1:37:A:ILE:HD12	1:69:A:VAL:HG21	4	0.31
(1,470)	1:37:A:ILE:HD12	1:69:A:VAL:HG22	4	0.31
(1,470)	1:37:A:ILE:HD12	1:69:A:VAL:HG23	4	0.31
(1,470)	1:37:A:ILE:HD13	1:69:A:VAL:HG21	4	0.31
(1,470)	1:37:A:ILE:HD13	1:69:A:VAL:HG22	4	0.31
(1,470)	1:37:A:ILE:HD13	1:69:A:VAL:HG23	4	0.31
(1,463)	1:39:A:ILE:HD11	1:56:A:ASP:HB2	16	0.31
(1,463)	1:39:A:ILE:HD12	1:56:A:ASP:HB2	16	0.31
(1,463)	1:39:A:ILE:HD13	1:56:A:ASP:HB2	16	0.31
(1,418)	1:70:A:GLU:HG2	1:72:A:ALA:HB1	3	0.31
(1,418)	1:70:A:GLU:HG2	1:72:A:ALA:HB2	3	0.31
(1,418)	1:70:A:GLU:HG2	1:72:A:ALA:HB3	3	0.31
(1,418)	1:70:A:GLU:HG3	1:72:A:ALA:HB1	3	0.31
(1,418)	1:70:A:GLU:HG3	1:72:A:ALA:HB2	3	0.31
(1,418)	1:70:A:GLU:HG3	1:72:A:ALA:HB3	3	0.31
(1,365)	1:8:A:THR:HG21	1:86:A:LYS:HE2	17	0.31
(1,365)	1:8:A:THR:HG21	1:86:A:LYS:HE3	17	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,365)	1:8:A:THR:HG22	1:86:A:LYS:HE2	17	0.31
(1,365)	1:8:A:THR:HG22	1:86:A:LYS:HE3	17	0.31
(1,365)	1:8:A:THR:HG23	1:86:A:LYS:HE2	17	0.31
(1,365)	1:8:A:THR:HG23	1:86:A:LYS:HE3	17	0.31
(1,290)	1:44:A:LYS:HD2	1:49:A:GLU:HB3	10	0.31
(1,290)	1:44:A:LYS:HD3	1:49:A:GLU:HB3	10	0.31
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	15	0.31
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	15	0.31
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG2	9	0.31
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG3	9	0.31
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG2	9	0.31
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG3	9	0.31
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG2	9	0.31
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG3	9	0.31
(1,219)	1:25:A:ARG:HG2	1:70:A:GLU:HG2	6	0.31
(1,219)	1:25:A:ARG:HG2	1:70:A:GLU:HG3	6	0.31
(1,219)	1:25:A:ARG:HG3	1:70:A:GLU:HG2	6	0.31
(1,219)	1:25:A:ARG:HG3	1:70:A:GLU:HG3	6	0.31
(1,178)	1:79:A:ARG:HD2	1:80:A:LYS:HA	10	0.31
(1,178)	1:79:A:ARG:HD3	1:80:A:LYS:HA	10	0.31
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD2	14	0.31
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD3	14	0.31
(1,64)	1:21:A:ILE:HD11	1:39:A:ILE:HA	12	0.31
(1,64)	1:21:A:ILE:HD12	1:39:A:ILE:HA	12	0.31
(1,64)	1:21:A:ILE:HD13	1:39:A:ILE:HA	12	0.31
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG21	4	0.31
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG22	4	0.31
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG23	4	0.31
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD11	13	0.3
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD12	13	0.3
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD13	13	0.3
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD21	13	0.3
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD22	13	0.3
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD23	13	0.3
(1,1585)	1:42:A:VAL:HG11	1:49:A:GLU:HB2	12	0.3
(1,1585)	1:42:A:VAL:HG12	1:49:A:GLU:HB2	12	0.3
(1,1585)	1:42:A:VAL:HG13	1:49:A:GLU:HB2	12	0.3
(1,1585)	1:42:A:VAL:HG21	1:49:A:GLU:HB2	12	0.3
(1,1585)	1:42:A:VAL:HG22	1:49:A:GLU:HB2	12	0.3
(1,1585)	1:42:A:VAL:HG23	1:49:A:GLU:HB2	12	0.3
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD11	19	0.3
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD12	19	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD13	19	0.3
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD11	19	0.3
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD12	19	0.3
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD13	19	0.3
(1,1522)	1:11:A:ARG:HD2	1:81:A:SER:H	11	0.3
(1,1522)	1:11:A:ARG:HD3	1:81:A:SER:H	11	0.3
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB2	1	0.3
(1,1508)	1:8:A:THR:HG21	1:84:A:ASN:HB3	1	0.3
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB2	1	0.3
(1,1508)	1:8:A:THR:HG22	1:84:A:ASN:HB3	1	0.3
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB2	1	0.3
(1,1508)	1:8:A:THR:HG23	1:84:A:ASN:HB3	1	0.3
(1,1506)	1:7:A:VAL:HG11	1:87:A:ILE:HB	3	0.3
(1,1506)	1:7:A:VAL:HG12	1:87:A:ILE:HB	3	0.3
(1,1506)	1:7:A:VAL:HG13	1:87:A:ILE:HB	3	0.3
(1,1506)	1:7:A:VAL:HG21	1:87:A:ILE:HB	3	0.3
(1,1506)	1:7:A:VAL:HG22	1:87:A:ILE:HB	3	0.3
(1,1506)	1:7:A:VAL:HG23	1:87:A:ILE:HB	3	0.3
(1,1504)	1:7:A:VAL:HG11	1:51:A:GLN:HA	6	0.3
(1,1504)	1:7:A:VAL:HG12	1:51:A:GLN:HA	6	0.3
(1,1504)	1:7:A:VAL:HG13	1:51:A:GLN:HA	6	0.3
(1,1504)	1:7:A:VAL:HG21	1:51:A:GLN:HA	6	0.3
(1,1504)	1:7:A:VAL:HG22	1:51:A:GLN:HA	6	0.3
(1,1504)	1:7:A:VAL:HG23	1:51:A:GLN:HA	6	0.3
(1,1434)	1:89:A:ILE:H	1:89:A:ILE:HD11	13	0.3
(1,1434)	1:89:A:ILE:H	1:89:A:ILE:HD12	13	0.3
(1,1434)	1:89:A:ILE:H	1:89:A:ILE:HD13	13	0.3
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG2	17	0.3
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG3	17	0.3
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG2	17	0.3
(1,1328)	1:76:A:GLN:H	1:79:A:ARG:HG3	17	0.3
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	19	0.3
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	19	0.3
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	19	0.3
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	5	0.3
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	5	0.3
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	5	0.3
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	8	0.3
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	8	0.3
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	8	0.3
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	14	0.3
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	14	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	14	0.3
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG2	16	0.3
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG3	16	0.3
(1,1111)	1:57:A:ARG:H	1:91:A:ARG:HG2	14	0.3
(1,1111)	1:57:A:ARG:H	1:91:A:ARG:HG3	14	0.3
(1,930)	1:37:A:ILE:HD11	1:71:A:HIS:H	15	0.3
(1,930)	1:37:A:ILE:HD12	1:71:A:HIS:H	15	0.3
(1,930)	1:37:A:ILE:HD13	1:71:A:HIS:H	15	0.3
(1,794)	1:22:A:SER:H	1:74:A:ALA:HB1	6	0.3
(1,794)	1:22:A:SER:H	1:74:A:ALA:HB2	6	0.3
(1,794)	1:22:A:SER:H	1:74:A:ALA:HB3	6	0.3
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	10	0.3
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	10	0.3
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	10	0.3
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD11	9	0.3
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD12	9	0.3
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD13	9	0.3
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD11	18	0.3
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD12	18	0.3
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD13	18	0.3
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB1	5	0.3
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB2	5	0.3
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB3	5	0.3
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB1	13	0.3
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB2	13	0.3
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB3	13	0.3
(1,614)	1:6:A:THR:HG21	1:89:A:ILE:H	2	0.3
(1,614)	1:6:A:THR:HG22	1:89:A:ILE:H	2	0.3
(1,614)	1:6:A:THR:HG23	1:89:A:ILE:H	2	0.3
(1,525)	1:88:A:THR:HG21	1:90:A:ARG:HA	18	0.3
(1,525)	1:88:A:THR:HG22	1:90:A:ARG:HA	18	0.3
(1,525)	1:88:A:THR:HG23	1:90:A:ARG:HA	18	0.3
(1,465)	1:39:A:ILE:HD11	1:89:A:ILE:HG21	15	0.3
(1,465)	1:39:A:ILE:HD11	1:89:A:ILE:HG22	15	0.3
(1,465)	1:39:A:ILE:HD11	1:89:A:ILE:HG23	15	0.3
(1,465)	1:39:A:ILE:HD12	1:89:A:ILE:HG21	15	0.3
(1,465)	1:39:A:ILE:HD12	1:89:A:ILE:HG22	15	0.3
(1,465)	1:39:A:ILE:HD12	1:89:A:ILE:HG23	15	0.3
(1,465)	1:39:A:ILE:HD13	1:89:A:ILE:HG21	15	0.3
(1,465)	1:39:A:ILE:HD13	1:89:A:ILE:HG22	15	0.3
(1,465)	1:39:A:ILE:HD13	1:89:A:ILE:HG23	15	0.3
(1,427)	1:21:A:ILE:HG21	1:37:A:ILE:HB	4	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,427)	1:21:A:ILE:HG22	1:37:A:ILE:HB	4	0.3
(1,427)	1:21:A:ILE:HG23	1:37:A:ILE:HB	4	0.3
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	7	0.3
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	7	0.3
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	7	0.3
(1,413)	1:21:A:ILE:HG21	1:38:A:VAL:H	4	0.3
(1,413)	1:21:A:ILE:HG22	1:38:A:VAL:H	4	0.3
(1,413)	1:21:A:ILE:HG23	1:38:A:VAL:H	4	0.3
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB1	6	0.3
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB2	6	0.3
(1,374)	1:58:A:VAL:HG11	1:59:A:ALA:HB3	6	0.3
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB1	6	0.3
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB2	6	0.3
(1,374)	1:58:A:VAL:HG12	1:59:A:ALA:HB3	6	0.3
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB1	6	0.3
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB2	6	0.3
(1,374)	1:58:A:VAL:HG13	1:59:A:ALA:HB3	6	0.3
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG21	14	0.3
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG22	14	0.3
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG23	14	0.3
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG21	14	0.3
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG22	14	0.3
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG23	14	0.3
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG21	14	0.3
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG22	14	0.3
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG23	14	0.3
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG2	8	0.3
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG3	8	0.3
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG2	8	0.3
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG3	8	0.3
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG2	8	0.3
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG3	8	0.3
(1,121)	1:21:A:ILE:HD11	1:74:A:ALA:HA	20	0.3
(1,121)	1:21:A:ILE:HD12	1:74:A:ALA:HA	20	0.3
(1,121)	1:21:A:ILE:HD13	1:74:A:ALA:HA	20	0.3
(1,86)	1:39:A:ILE:HD11	1:54:A:GLU:HA	16	0.3
(1,86)	1:39:A:ILE:HD12	1:54:A:GLU:HA	16	0.3
(1,86)	1:39:A:ILE:HD13	1:54:A:GLU:HA	16	0.3
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG2	10	0.3
(1,50)	1:73:A:PHE:HA	1:77:A:GLN:HG3	10	0.3
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	14	0.3
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	14	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	14	0.3
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG11	8	0.29
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG12	8	0.29
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG13	8	0.29
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG21	8	0.29
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG22	8	0.29
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG23	8	0.29
(1,1601)	1:52:A:LEU:HD11	1:87:A:ILE:H	13	0.29
(1,1601)	1:52:A:LEU:HD12	1:87:A:ILE:H	13	0.29
(1,1601)	1:52:A:LEU:HD13	1:87:A:ILE:H	13	0.29
(1,1601)	1:52:A:LEU:HD21	1:87:A:ILE:H	13	0.29
(1,1601)	1:52:A:LEU:HD22	1:87:A:ILE:H	13	0.29
(1,1601)	1:52:A:LEU:HD23	1:87:A:ILE:H	13	0.29
(1,1549)	1:21:A:ILE:HG12	1:75:A:VAL:HB	11	0.29
(1,1549)	1:21:A:ILE:HG13	1:75:A:VAL:HB	11	0.29
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB2	19	0.29
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB3	19	0.29
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD2	3	0.29
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD3	3	0.29
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG2	12	0.29
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG3	12	0.29
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB1	6	0.29
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB2	6	0.29
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB3	6	0.29
(1,1372)	1:79:A:ARG:HD2	1:80:A:LYS:H	16	0.29
(1,1372)	1:79:A:ARG:HD3	1:80:A:LYS:H	16	0.29
(1,1369)	1:79:A:ARG:HB2	1:82:A:GLY:H	16	0.29
(1,1369)	1:79:A:ARG:HB3	1:82:A:GLY:H	16	0.29
(1,1358)	1:79:A:ARG:HG2	1:80:A:LYS:H	13	0.29
(1,1358)	1:79:A:ARG:HG3	1:80:A:LYS:H	13	0.29
(1,1251)	1:69:A:VAL:HG21	1:75:A:VAL:H	9	0.29
(1,1251)	1:69:A:VAL:HG22	1:75:A:VAL:H	9	0.29
(1,1251)	1:69:A:VAL:HG23	1:75:A:VAL:H	9	0.29
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD2	19	0.29
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD3	19	0.29
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB2	6	0.29
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB3	6	0.29
(1,930)	1:37:A:ILE:HD11	1:71:A:HIS:H	3	0.29
(1,930)	1:37:A:ILE:HD12	1:71:A:HIS:H	3	0.29
(1,930)	1:37:A:ILE:HD13	1:71:A:HIS:H	3	0.29
(1,718)	1:16:A:GLY:H	1:43:A:LEU:HD21	14	0.29
(1,718)	1:16:A:GLY:H	1:43:A:LEU:HD22	14	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,718)	1:16:A:GLY:H	1:43:A:LEU:HD23	14	0.29
(1,682)	1:11:A:ARG:H	1:83:A:LYS:HB2	6	0.29
(1,682)	1:11:A:ARG:H	1:83:A:LYS:HB3	6	0.29
(1,614)	1:6:A:THR:HG21	1:89:A:ILE:H	7	0.29
(1,614)	1:6:A:THR:HG22	1:89:A:ILE:H	7	0.29
(1,614)	1:6:A:THR:HG23	1:89:A:ILE:H	7	0.29
(1,563)	1:3:A:GLU:H	1:91:A:ARG:HG2	5	0.29
(1,563)	1:3:A:GLU:H	1:91:A:ARG:HG3	5	0.29
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD11	2	0.29
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD12	2	0.29
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD13	2	0.29
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD11	2	0.29
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD12	2	0.29
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD13	2	0.29
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD11	2	0.29
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD12	2	0.29
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD13	2	0.29
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	3	0.29
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	3	0.29
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	3	0.29
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	3	0.29
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	3	0.29
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	3	0.29
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD11	9	0.29
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD12	9	0.29
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD13	9	0.29
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG2	15	0.29
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG3	15	0.29
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG2	15	0.29
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG3	15	0.29
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG2	15	0.29
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG3	15	0.29
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD11	18	0.29
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD12	18	0.29
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD13	18	0.29
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD11	18	0.29
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD12	18	0.29
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD13	18	0.29
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD11	18	0.29
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD12	18	0.29
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD13	18	0.29
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	3	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	3	0.29
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	3	0.29
(1,383)	1:6:A:THR:HG21	1:60:A:MET:HB3	6	0.29
(1,383)	1:6:A:THR:HG22	1:60:A:MET:HB3	6	0.29
(1,383)	1:6:A:THR:HG23	1:60:A:MET:HB3	6	0.29
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG2	12	0.29
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG3	12	0.29
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG2	12	0.29
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG3	12	0.29
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG2	12	0.29
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG3	12	0.29
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG11	10	0.29
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG12	10	0.29
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG13	10	0.29
(1,328)	1:43:A:LEU:HD11	1:47:A:PRO:HG2	16	0.29
(1,328)	1:43:A:LEU:HD12	1:47:A:PRO:HG2	16	0.29
(1,328)	1:43:A:LEU:HD13	1:47:A:PRO:HG2	16	0.29
(1,312)	1:7:A:VAL:HB	1:52:A:LEU:HD11	9	0.29
(1,312)	1:7:A:VAL:HB	1:52:A:LEU:HD12	9	0.29
(1,312)	1:7:A:VAL:HB	1:52:A:LEU:HD13	9	0.29
(1,294)	1:4:A:GLN:HB2	1:90:A:ARG:HG2	12	0.29
(1,294)	1:4:A:GLN:HB2	1:90:A:ARG:HG3	12	0.29
(1,294)	1:4:A:GLN:HB3	1:90:A:ARG:HG2	12	0.29
(1,294)	1:4:A:GLN:HB3	1:90:A:ARG:HG3	12	0.29
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD2	13	0.29
(1,171)	1:54:A:GLU:HA	1:57:A:ARG:HD3	13	0.29
(1,170)	1:76:A:GLN:HA	1:79:A:ARG:HD2	10	0.29
(1,170)	1:76:A:GLN:HA	1:79:A:ARG:HD3	10	0.29
(1,134)	1:35:A:THR:HG21	1:68:A:ASN:HA	12	0.29
(1,134)	1:35:A:THR:HG22	1:68:A:ASN:HA	12	0.29
(1,134)	1:35:A:THR:HG23	1:68:A:ASN:HA	12	0.29
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	6	0.29
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	6	0.29
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	6	0.29
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG11	8	0.28
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG12	8	0.28
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG13	8	0.28
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG21	8	0.28
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG22	8	0.28
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG23	8	0.28
(1,1601)	1:52:A:LEU:HD11	1:87:A:ILE:H	10	0.28
(1,1601)	1:52:A:LEU:HD12	1:87:A:ILE:H	10	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1601)	1:52:A:LEU:HD13	1:87:A:ILE:H	10	0.28
(1,1601)	1:52:A:LEU:HD21	1:87:A:ILE:H	10	0.28
(1,1601)	1:52:A:LEU:HD22	1:87:A:ILE:H	10	0.28
(1,1601)	1:52:A:LEU:HD23	1:87:A:ILE:H	10	0.28
(1,1584)	1:42:A:VAL:HG11	1:49:A:GLU:HA	12	0.28
(1,1584)	1:42:A:VAL:HG12	1:49:A:GLU:HA	12	0.28
(1,1584)	1:42:A:VAL:HG13	1:49:A:GLU:HA	12	0.28
(1,1584)	1:42:A:VAL:HG21	1:49:A:GLU:HA	12	0.28
(1,1584)	1:42:A:VAL:HG22	1:49:A:GLU:HA	12	0.28
(1,1584)	1:42:A:VAL:HG23	1:49:A:GLU:HA	12	0.28
(1,1574)	1:38:A:VAL:HG11	1:58:A:VAL:H	12	0.28
(1,1574)	1:38:A:VAL:HG12	1:58:A:VAL:H	12	0.28
(1,1574)	1:38:A:VAL:HG13	1:58:A:VAL:H	12	0.28
(1,1574)	1:38:A:VAL:HG21	1:58:A:VAL:H	12	0.28
(1,1574)	1:38:A:VAL:HG22	1:58:A:VAL:H	12	0.28
(1,1574)	1:38:A:VAL:HG23	1:58:A:VAL:H	12	0.28
(1,1565)	1:36:A:SER:HB2	1:68:A:ASN:H	4	0.28
(1,1565)	1:36:A:SER:HB3	1:68:A:ASN:H	4	0.28
(1,1564)	1:34:A:GLU:HG2	1:36:A:SER:H	11	0.28
(1,1564)	1:34:A:GLU:HG3	1:36:A:SER:H	11	0.28
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	9	0.28
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	9	0.28
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	9	0.28
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	9	0.28
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	9	0.28
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	9	0.28
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	18	0.28
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	18	0.28
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	18	0.28
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	18	0.28
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	18	0.28
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	18	0.28
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD2	3	0.28
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD3	3	0.28
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD2	14	0.28
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD3	14	0.28
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD11	17	0.28
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD12	17	0.28
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD13	17	0.28
(1,1423)	1:86:A:LYS:HE2	1:87:A:ILE:H	16	0.28
(1,1423)	1:86:A:LYS:HE3	1:87:A:ILE:H	16	0.28
(1,1255)	1:69:A:VAL:HG21	1:74:A:ALA:H	6	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1255)	1:69:A:VAL:HG22	1:74:A:ALA:H	6	0.28
(1,1255)	1:69:A:VAL:HG23	1:74:A:ALA:H	6	0.28
(1,1251)	1:69:A:VAL:HG21	1:75:A:VAL:H	19	0.28
(1,1251)	1:69:A:VAL:HG22	1:75:A:VAL:H	19	0.28
(1,1251)	1:69:A:VAL:HG23	1:75:A:VAL:H	19	0.28
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB2	3	0.28
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB3	3	0.28
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG2	20	0.28
(1,1032)	1:48:A:ALA:H	1:51:A:GLN:HG3	20	0.28
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	18	0.28
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	18	0.28
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	18	0.28
(1,980)	1:9:A:LEU:HD11	1:52:A:LEU:H	2	0.28
(1,980)	1:9:A:LEU:HD12	1:52:A:LEU:H	2	0.28
(1,980)	1:9:A:LEU:HD13	1:52:A:LEU:H	2	0.28
(1,980)	1:9:A:LEU:HD21	1:52:A:LEU:H	2	0.28
(1,980)	1:9:A:LEU:HD22	1:52:A:LEU:H	2	0.28
(1,980)	1:9:A:LEU:HD23	1:52:A:LEU:H	2	0.28
(1,954)	1:39:A:ILE:HG21	1:41:A:ASP:H	2	0.28
(1,954)	1:39:A:ILE:HG22	1:41:A:ASP:H	2	0.28
(1,954)	1:39:A:ILE:HG23	1:41:A:ASP:H	2	0.28
(1,948)	1:38:A:VAL:HG21	1:39:A:ILE:H	16	0.28
(1,948)	1:38:A:VAL:HG22	1:39:A:ILE:H	16	0.28
(1,948)	1:38:A:VAL:HG23	1:39:A:ILE:H	16	0.28
(1,937)	1:39:A:ILE:HD11	1:58:A:VAL:H	3	0.28
(1,937)	1:39:A:ILE:HD12	1:58:A:VAL:H	3	0.28
(1,937)	1:39:A:ILE:HD13	1:58:A:VAL:H	3	0.28
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	2	0.28
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	2	0.28
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	2	0.28
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	12	0.28
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	12	0.28
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	12	0.28
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD11	10	0.28
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD12	10	0.28
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD13	10	0.28
(1,682)	1:11:A:ARG:H	1:83:A:LYS:HB2	11	0.28
(1,682)	1:11:A:ARG:H	1:83:A:LYS:HB3	11	0.28
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD11	8	0.28
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD12	8	0.28
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD13	8	0.28
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB1	7	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB2	7	0.28
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB3	7	0.28
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB1	7	0.28
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB2	7	0.28
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB3	7	0.28
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB1	7	0.28
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB2	7	0.28
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB3	7	0.28
(1,323)	1:19:A:ILE:H	1:43:A:LEU:HD11	19	0.28
(1,323)	1:19:A:ILE:H	1:43:A:LEU:HD12	19	0.28
(1,323)	1:19:A:ILE:H	1:43:A:LEU:HD13	19	0.28
(1,311)	1:51:A:GLN:HB2	1:52:A:LEU:HD11	13	0.28
(1,311)	1:51:A:GLN:HB2	1:52:A:LEU:HD12	13	0.28
(1,311)	1:51:A:GLN:HB2	1:52:A:LEU:HD13	13	0.28
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	10	0.28
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	10	0.28
(1,208)	1:39:A:ILE:HD11	1:56:A:ASP:HB3	1	0.28
(1,208)	1:39:A:ILE:HD12	1:56:A:ASP:HB3	1	0.28
(1,208)	1:39:A:ILE:HD13	1:56:A:ASP:HB3	1	0.28
(1,1674)	1:84:A:ASN:HB2	1:86:A:LYS:H	1	0.27
(1,1674)	1:84:A:ASN:HB3	1:86:A:LYS:H	1	0.27
(1,1674)	1:84:A:ASN:HB2	1:86:A:LYS:H	10	0.27
(1,1674)	1:84:A:ASN:HB3	1:86:A:LYS:H	10	0.27
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB2	12	0.27
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB3	12	0.27
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB2	12	0.27
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB3	12	0.27
(1,1585)	1:42:A:VAL:HG11	1:49:A:GLU:HB2	9	0.27
(1,1585)	1:42:A:VAL:HG12	1:49:A:GLU:HB2	9	0.27
(1,1585)	1:42:A:VAL:HG13	1:49:A:GLU:HB2	9	0.27
(1,1585)	1:42:A:VAL:HG21	1:49:A:GLU:HB2	9	0.27
(1,1585)	1:42:A:VAL:HG22	1:49:A:GLU:HB2	9	0.27
(1,1585)	1:42:A:VAL:HG23	1:49:A:GLU:HB2	9	0.27
(1,1585)	1:42:A:VAL:HG11	1:49:A:GLU:HB2	10	0.27
(1,1585)	1:42:A:VAL:HG12	1:49:A:GLU:HB2	10	0.27
(1,1585)	1:42:A:VAL:HG13	1:49:A:GLU:HB2	10	0.27
(1,1585)	1:42:A:VAL:HG21	1:49:A:GLU:HB2	10	0.27
(1,1585)	1:42:A:VAL:HG22	1:49:A:GLU:HB2	10	0.27
(1,1585)	1:42:A:VAL:HG23	1:49:A:GLU:HB2	10	0.27
(1,1568)	1:38:A:VAL:HG11	1:39:A:ILE:H	19	0.27
(1,1568)	1:38:A:VAL:HG12	1:39:A:ILE:H	19	0.27
(1,1568)	1:38:A:VAL:HG13	1:39:A:ILE:H	19	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1568)	1:38:A:VAL:HG21	1:39:A:ILE:H	19	0.27
(1,1568)	1:38:A:VAL:HG22	1:39:A:ILE:H	19	0.27
(1,1568)	1:38:A:VAL:HG23	1:39:A:ILE:H	19	0.27
(1,1521)	1:11:A:ARG:HD2	1:79:A:ARG:H	4	0.27
(1,1521)	1:11:A:ARG:HD3	1:79:A:ARG:H	4	0.27
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	1	0.27
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	1	0.27
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	1	0.27
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	1	0.27
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	1	0.27
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	1	0.27
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	18	0.27
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	18	0.27
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	18	0.27
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	18	0.27
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	18	0.27
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	18	0.27
(1,1358)	1:79:A:ARG:HG2	1:80:A:LYS:H	6	0.27
(1,1358)	1:79:A:ARG:HG3	1:80:A:LYS:H	6	0.27
(1,1007)	1:44:A:LYS:H	1:44:A:LYS:HE2	9	0.27
(1,1007)	1:44:A:LYS:H	1:44:A:LYS:HE3	9	0.27
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	15	0.27
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	15	0.27
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	15	0.27
(1,980)	1:9:A:LEU:HD11	1:52:A:LEU:H	11	0.27
(1,980)	1:9:A:LEU:HD12	1:52:A:LEU:H	11	0.27
(1,980)	1:9:A:LEU:HD13	1:52:A:LEU:H	11	0.27
(1,980)	1:9:A:LEU:HD21	1:52:A:LEU:H	11	0.27
(1,980)	1:9:A:LEU:HD22	1:52:A:LEU:H	11	0.27
(1,980)	1:9:A:LEU:HD23	1:52:A:LEU:H	11	0.27
(1,873)	1:27:A:ASN:H	1:70:A:GLU:HB2	18	0.27
(1,873)	1:27:A:ASN:H	1:70:A:GLU:HB3	18	0.27
(1,852)	1:25:A:ARG:HG2	1:26:A:ASP:H	13	0.27
(1,852)	1:25:A:ARG:HG3	1:26:A:ASP:H	13	0.27
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD11	18	0.27
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD12	18	0.27
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD13	18	0.27
(1,682)	1:11:A:ARG:H	1:83:A:LYS:HB2	14	0.27
(1,682)	1:11:A:ARG:H	1:83:A:LYS:HB3	14	0.27
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG11	1	0.27
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG12	1	0.27
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG13	1	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD11	4	0.27
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD12	4	0.27
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD13	4	0.27
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD11	4	0.27
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD12	4	0.27
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD13	4	0.27
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD11	4	0.27
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD12	4	0.27
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD13	4	0.27
(1,375)	1:42:A:VAL:HG11	1:50:A:GLY:H	12	0.27
(1,375)	1:42:A:VAL:HG12	1:50:A:GLY:H	12	0.27
(1,375)	1:42:A:VAL:HG13	1:50:A:GLY:H	12	0.27
(1,365)	1:8:A:THR:HG21	1:86:A:LYS:HE2	5	0.27
(1,365)	1:8:A:THR:HG21	1:86:A:LYS:HE3	5	0.27
(1,365)	1:8:A:THR:HG22	1:86:A:LYS:HE2	5	0.27
(1,365)	1:8:A:THR:HG22	1:86:A:LYS:HE3	5	0.27
(1,365)	1:8:A:THR:HG23	1:86:A:LYS:HE2	5	0.27
(1,365)	1:8:A:THR:HG23	1:86:A:LYS:HE3	5	0.27
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG11	5	0.27
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG12	5	0.27
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG13	5	0.27
(1,323)	1:19:A:ILE:H	1:43:A:LEU:HD11	5	0.27
(1,323)	1:19:A:ILE:H	1:43:A:LEU:HD12	5	0.27
(1,323)	1:19:A:ILE:H	1:43:A:LEU:HD13	5	0.27
(1,236)	1:89:A:ILE:HD11	1:91:A:ARG:HB2	20	0.27
(1,236)	1:89:A:ILE:HD12	1:91:A:ARG:HB2	20	0.27
(1,236)	1:89:A:ILE:HD13	1:91:A:ARG:HB2	20	0.27
(1,93)	1:44:A:LYS:HA	1:44:A:LYS:HD2	8	0.27
(1,93)	1:44:A:LYS:HA	1:44:A:LYS:HD3	8	0.27
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB2	8	0.27
(1,92)	1:40:A:SER:HA	1:54:A:GLU:HB3	8	0.27
(1,1606)	1:52:A:LEU:HD11	1:89:A:ILE:HG12	8	0.26
(1,1606)	1:52:A:LEU:HD12	1:89:A:ILE:HG12	8	0.26
(1,1606)	1:52:A:LEU:HD13	1:89:A:ILE:HG12	8	0.26
(1,1606)	1:52:A:LEU:HD21	1:89:A:ILE:HG12	8	0.26
(1,1606)	1:52:A:LEU:HD22	1:89:A:ILE:HG12	8	0.26
(1,1606)	1:52:A:LEU:HD23	1:89:A:ILE:HG12	8	0.26
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE2	3	0.26
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE3	3	0.26
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG2	5	0.26
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG3	5	0.26
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG2	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG3	8	0.26
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	11	0.26
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	11	0.26
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	11	0.26
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD2	8	0.26
(1,973)	1:42:A:VAL:H	1:44:A:LYS:HD3	8	0.26
(1,948)	1:38:A:VAL:HG21	1:39:A:ILE:H	13	0.26
(1,948)	1:38:A:VAL:HG22	1:39:A:ILE:H	13	0.26
(1,948)	1:38:A:VAL:HG23	1:39:A:ILE:H	13	0.26
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB2	10	0.26
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB3	10	0.26
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB2	19	0.26
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB3	19	0.26
(1,858)	1:25:A:ARG:HD2	1:27:A:ASN:H	5	0.26
(1,858)	1:25:A:ARG:HD3	1:27:A:ASN:H	5	0.26
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG21	2	0.26
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG22	2	0.26
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG23	2	0.26
(1,780)	1:21:A:ILE:HG21	1:22:A:SER:H	6	0.26
(1,780)	1:21:A:ILE:HG22	1:22:A:SER:H	6	0.26
(1,780)	1:21:A:ILE:HG23	1:22:A:SER:H	6	0.26
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD11	15	0.26
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD12	15	0.26
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD13	15	0.26
(1,525)	1:88:A:THR:HG21	1:90:A:ARG:HA	10	0.26
(1,525)	1:88:A:THR:HG22	1:90:A:ARG:HA	10	0.26
(1,525)	1:88:A:THR:HG23	1:90:A:ARG:HA	10	0.26
(1,436)	1:37:A:ILE:HG21	1:74:A:ALA:HB1	12	0.26
(1,436)	1:37:A:ILE:HG21	1:74:A:ALA:HB2	12	0.26
(1,436)	1:37:A:ILE:HG21	1:74:A:ALA:HB3	12	0.26
(1,436)	1:37:A:ILE:HG22	1:74:A:ALA:HB1	12	0.26
(1,436)	1:37:A:ILE:HG22	1:74:A:ALA:HB2	12	0.26
(1,436)	1:37:A:ILE:HG22	1:74:A:ALA:HB3	12	0.26
(1,436)	1:37:A:ILE:HG23	1:74:A:ALA:HB1	12	0.26
(1,436)	1:37:A:ILE:HG23	1:74:A:ALA:HB2	12	0.26
(1,436)	1:37:A:ILE:HG23	1:74:A:ALA:HB3	12	0.26
(1,375)	1:42:A:VAL:HG11	1:50:A:GLY:H	5	0.26
(1,375)	1:42:A:VAL:HG12	1:50:A:GLY:H	5	0.26
(1,375)	1:42:A:VAL:HG13	1:50:A:GLY:H	5	0.26
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG2	20	0.26
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG3	20	0.26
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG2	20	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG3	20	0.26
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG2	20	0.26
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG3	20	0.26
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE2	10	0.26
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE3	10	0.26
(1,121)	1:21:A:ILE:HD11	1:74:A:ALA:HA	16	0.26
(1,121)	1:21:A:ILE:HD12	1:74:A:ALA:HA	16	0.26
(1,121)	1:21:A:ILE:HD13	1:74:A:ALA:HA	16	0.26
(1,106)	1:25:A:ARG:HG2	1:70:A:GLU:HA	6	0.26
(1,106)	1:25:A:ARG:HG3	1:70:A:GLU:HA	6	0.26
(1,93)	1:44:A:LYS:HA	1:44:A:LYS:HD2	2	0.26
(1,93)	1:44:A:LYS:HA	1:44:A:LYS:HD3	2	0.26
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	4	0.26
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	4	0.26
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	4	0.26
(1,1604)	1:52:A:LEU:HD11	1:89:A:ILE:H	8	0.25
(1,1604)	1:52:A:LEU:HD12	1:89:A:ILE:H	8	0.25
(1,1604)	1:52:A:LEU:HD13	1:89:A:ILE:H	8	0.25
(1,1604)	1:52:A:LEU:HD21	1:89:A:ILE:H	8	0.25
(1,1604)	1:52:A:LEU:HD22	1:89:A:ILE:H	8	0.25
(1,1604)	1:52:A:LEU:HD23	1:89:A:ILE:H	8	0.25
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	20	0.25
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	20	0.25
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	20	0.25
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	20	0.25
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	20	0.25
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	20	0.25
(1,1423)	1:86:A:LYS:HE2	1:87:A:ILE:H	1	0.25
(1,1423)	1:86:A:LYS:HE3	1:87:A:ILE:H	1	0.25
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	15	0.25
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	15	0.25
(1,1369)	1:79:A:ARG:HB2	1:82:A:GLY:H	2	0.25
(1,1369)	1:79:A:ARG:HB3	1:82:A:GLY:H	2	0.25
(1,1252)	1:69:A:VAL:HG21	1:70:A:GLU:H	16	0.25
(1,1252)	1:69:A:VAL:HG22	1:70:A:GLU:H	16	0.25
(1,1252)	1:69:A:VAL:HG23	1:70:A:GLU:H	16	0.25
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG2	12	0.25
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG3	12	0.25
(1,1072)	1:8:A:THR:HG21	1:87:A:ILE:H	14	0.25
(1,1072)	1:8:A:THR:HG22	1:87:A:ILE:H	14	0.25
(1,1072)	1:8:A:THR:HG23	1:87:A:ILE:H	14	0.25
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	13	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	13	0.25
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG21	17	0.25
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG22	17	0.25
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG23	17	0.25
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD11	5	0.25
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD12	5	0.25
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD13	5	0.25
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	13	0.25
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	13	0.25
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	13	0.25
(1,537)	1:8:A:THR:HG21	1:84:A:ASN:HA	16	0.25
(1,537)	1:8:A:THR:HG22	1:84:A:ASN:HA	16	0.25
(1,537)	1:8:A:THR:HG23	1:84:A:ASN:HA	16	0.25
(1,516)	1:60:A:MET:HA	1:88:A:THR:HG21	20	0.25
(1,516)	1:60:A:MET:HA	1:88:A:THR:HG22	20	0.25
(1,516)	1:60:A:MET:HA	1:88:A:THR:HG23	20	0.25
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD11	10	0.25
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD12	10	0.25
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD13	10	0.25
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD11	6	0.25
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD12	6	0.25
(1,431)	1:37:A:ILE:HG21	1:37:A:ILE:HD13	6	0.25
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD11	6	0.25
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD12	6	0.25
(1,431)	1:37:A:ILE:HG22	1:37:A:ILE:HD13	6	0.25
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD11	6	0.25
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD12	6	0.25
(1,431)	1:37:A:ILE:HG23	1:37:A:ILE:HD13	6	0.25
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	6	0.25
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	6	0.25
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	6	0.25
(1,383)	1:6:A:THR:HG21	1:60:A:MET:HB3	2	0.25
(1,383)	1:6:A:THR:HG22	1:60:A:MET:HB3	2	0.25
(1,383)	1:6:A:THR:HG23	1:60:A:MET:HB3	2	0.25
(1,323)	1:19:A:ILE:H	1:43:A:LEU:HD11	6	0.25
(1,323)	1:19:A:ILE:H	1:43:A:LEU:HD12	6	0.25
(1,323)	1:19:A:ILE:H	1:43:A:LEU:HD13	6	0.25
(1,178)	1:79:A:ARG:HD2	1:80:A:LYS:HA	6	0.25
(1,178)	1:79:A:ARG:HD3	1:80:A:LYS:HA	6	0.25
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD2	2	0.25
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD3	2	0.25
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD2	13	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD3	13	0.25
(1,93)	1:44:A:LYS:HA	1:44:A:LYS:HD2	11	0.25
(1,93)	1:44:A:LYS:HA	1:44:A:LYS:HD3	11	0.25
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	5	0.25
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	5	0.25
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	5	0.25
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD11	4	0.24
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD12	4	0.24
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD13	4	0.24
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD21	4	0.24
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD22	4	0.24
(1,1595)	1:51:A:GLN:HB2	1:52:A:LEU:HD23	4	0.24
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	16	0.24
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	16	0.24
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	16	0.24
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	16	0.24
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	16	0.24
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	16	0.24
(1,1584)	1:42:A:VAL:HG11	1:49:A:GLU:HA	2	0.24
(1,1584)	1:42:A:VAL:HG12	1:49:A:GLU:HA	2	0.24
(1,1584)	1:42:A:VAL:HG13	1:49:A:GLU:HA	2	0.24
(1,1584)	1:42:A:VAL:HG21	1:49:A:GLU:HA	2	0.24
(1,1584)	1:42:A:VAL:HG22	1:49:A:GLU:HA	2	0.24
(1,1584)	1:42:A:VAL:HG23	1:49:A:GLU:HA	2	0.24
(1,1584)	1:42:A:VAL:HG11	1:49:A:GLU:HA	3	0.24
(1,1584)	1:42:A:VAL:HG12	1:49:A:GLU:HA	3	0.24
(1,1584)	1:42:A:VAL:HG13	1:49:A:GLU:HA	3	0.24
(1,1584)	1:42:A:VAL:HG21	1:49:A:GLU:HA	3	0.24
(1,1584)	1:42:A:VAL:HG22	1:49:A:GLU:HA	3	0.24
(1,1584)	1:42:A:VAL:HG23	1:49:A:GLU:HA	3	0.24
(1,1568)	1:38:A:VAL:HG11	1:39:A:ILE:H	3	0.24
(1,1568)	1:38:A:VAL:HG12	1:39:A:ILE:H	3	0.24
(1,1568)	1:38:A:VAL:HG13	1:39:A:ILE:H	3	0.24
(1,1568)	1:38:A:VAL:HG21	1:39:A:ILE:H	3	0.24
(1,1568)	1:38:A:VAL:HG22	1:39:A:ILE:H	3	0.24
(1,1568)	1:38:A:VAL:HG23	1:39:A:ILE:H	3	0.24
(1,1564)	1:34:A:GLU:HG2	1:36:A:SER:H	6	0.24
(1,1564)	1:34:A:GLU:HG3	1:36:A:SER:H	6	0.24
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE2	17	0.24
(1,1486)	1:1:A:ILE:H	1:92:A:LYS:HE3	17	0.24
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD2	17	0.24
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD3	17	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD2	13	0.24
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD3	13	0.24
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB1	13	0.24
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB2	13	0.24
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB3	13	0.24
(1,1372)	1:79:A:ARG:HD2	1:80:A:LYS:H	20	0.24
(1,1372)	1:79:A:ARG:HD3	1:80:A:LYS:H	20	0.24
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD2	11	0.24
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD3	11	0.24
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD2	8	0.24
(1,1102)	1:56:A:ASP:H	1:57:A:ARG:HD3	8	0.24
(1,1076)	1:25:A:ARG:H	1:70:A:GLU:HG2	7	0.24
(1,1076)	1:25:A:ARG:H	1:70:A:GLU:HG3	7	0.24
(1,948)	1:38:A:VAL:HG21	1:39:A:ILE:H	3	0.24
(1,948)	1:38:A:VAL:HG22	1:39:A:ILE:H	3	0.24
(1,948)	1:38:A:VAL:HG23	1:39:A:ILE:H	3	0.24
(1,948)	1:38:A:VAL:HG21	1:39:A:ILE:H	11	0.24
(1,948)	1:38:A:VAL:HG22	1:39:A:ILE:H	11	0.24
(1,948)	1:38:A:VAL:HG23	1:39:A:ILE:H	11	0.24
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB2	2	0.24
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB3	2	0.24
(1,929)	1:37:A:ILE:HD11	1:70:A:GLU:H	8	0.24
(1,929)	1:37:A:ILE:HD12	1:70:A:GLU:H	8	0.24
(1,929)	1:37:A:ILE:HD13	1:70:A:GLU:H	8	0.24
(1,804)	1:23:A:GLY:H	1:40:A:SER:HB2	3	0.24
(1,804)	1:23:A:GLY:H	1:40:A:SER:HB3	3	0.24
(1,794)	1:22:A:SER:H	1:74:A:ALA:HB1	17	0.24
(1,794)	1:22:A:SER:H	1:74:A:ALA:HB2	17	0.24
(1,794)	1:22:A:SER:H	1:74:A:ALA:HB3	17	0.24
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB1	10	0.24
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB2	10	0.24
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB3	10	0.24
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	7	0.24
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	7	0.24
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	7	0.24
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	19	0.24
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	19	0.24
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	19	0.24
(1,547)	1:1:A:ILE:H	1:92:A:LYS:HB2	18	0.24
(1,547)	1:1:A:ILE:H	1:92:A:LYS:HB3	18	0.24
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG21	13	0.24
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG22	13	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,542)	1:-1:A:HIS:H	1:1:A:ILE:HG23	13	0.24
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG11	15	0.24
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG12	15	0.24
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG13	15	0.24
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG2	2	0.24
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG3	2	0.24
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG2	2	0.24
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG3	2	0.24
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG2	2	0.24
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG3	2	0.24
(1,429)	1:21:A:ILE:HG21	1:74:A:ALA:HB1	3	0.24
(1,429)	1:21:A:ILE:HG21	1:74:A:ALA:HB2	3	0.24
(1,429)	1:21:A:ILE:HG21	1:74:A:ALA:HB3	3	0.24
(1,429)	1:21:A:ILE:HG22	1:74:A:ALA:HB1	3	0.24
(1,429)	1:21:A:ILE:HG22	1:74:A:ALA:HB2	3	0.24
(1,429)	1:21:A:ILE:HG22	1:74:A:ALA:HB3	3	0.24
(1,429)	1:21:A:ILE:HG23	1:74:A:ALA:HB1	3	0.24
(1,429)	1:21:A:ILE:HG23	1:74:A:ALA:HB2	3	0.24
(1,429)	1:21:A:ILE:HG23	1:74:A:ALA:HB3	3	0.24
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG21	7	0.24
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG22	7	0.24
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG23	7	0.24
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	14	0.24
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	14	0.24
(1,311)	1:51:A:GLN:HB2	1:52:A:LEU:HD11	18	0.24
(1,311)	1:51:A:GLN:HB2	1:52:A:LEU:HD12	18	0.24
(1,311)	1:51:A:GLN:HB2	1:52:A:LEU:HD13	18	0.24
(1,134)	1:35:A:THR:HG21	1:68:A:ASN:HA	14	0.24
(1,134)	1:35:A:THR:HG22	1:68:A:ASN:HA	14	0.24
(1,134)	1:35:A:THR:HG23	1:68:A:ASN:HA	14	0.24
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG21	8	0.24
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG22	8	0.24
(1,84)	1:25:A:ARG:HA	1:35:A:THR:HG23	8	0.24
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG11	5	0.23
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG12	5	0.23
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG13	5	0.23
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG21	5	0.23
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG22	5	0.23
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG23	5	0.23
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG11	2	0.23
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG12	2	0.23
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG13	2	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG21	2	0.23
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG22	2	0.23
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG23	2	0.23
(1,1585)	1:42:A:VAL:HG11	1:49:A:GLU:HB2	17	0.23
(1,1585)	1:42:A:VAL:HG12	1:49:A:GLU:HB2	17	0.23
(1,1585)	1:42:A:VAL:HG13	1:49:A:GLU:HB2	17	0.23
(1,1585)	1:42:A:VAL:HG21	1:49:A:GLU:HB2	17	0.23
(1,1585)	1:42:A:VAL:HG22	1:49:A:GLU:HB2	17	0.23
(1,1585)	1:42:A:VAL:HG23	1:49:A:GLU:HB2	17	0.23
(1,1584)	1:42:A:VAL:HG11	1:49:A:GLU:HA	9	0.23
(1,1584)	1:42:A:VAL:HG12	1:49:A:GLU:HA	9	0.23
(1,1584)	1:42:A:VAL:HG13	1:49:A:GLU:HA	9	0.23
(1,1584)	1:42:A:VAL:HG21	1:49:A:GLU:HA	9	0.23
(1,1584)	1:42:A:VAL:HG22	1:49:A:GLU:HA	9	0.23
(1,1584)	1:42:A:VAL:HG23	1:49:A:GLU:HA	9	0.23
(1,1584)	1:42:A:VAL:HG11	1:49:A:GLU:HA	17	0.23
(1,1584)	1:42:A:VAL:HG12	1:49:A:GLU:HA	17	0.23
(1,1584)	1:42:A:VAL:HG13	1:49:A:GLU:HA	17	0.23
(1,1584)	1:42:A:VAL:HG21	1:49:A:GLU:HA	17	0.23
(1,1584)	1:42:A:VAL:HG22	1:49:A:GLU:HA	17	0.23
(1,1584)	1:42:A:VAL:HG23	1:49:A:GLU:HA	17	0.23
(1,1568)	1:38:A:VAL:HG11	1:39:A:ILE:H	13	0.23
(1,1568)	1:38:A:VAL:HG12	1:39:A:ILE:H	13	0.23
(1,1568)	1:38:A:VAL:HG13	1:39:A:ILE:H	13	0.23
(1,1568)	1:38:A:VAL:HG21	1:39:A:ILE:H	13	0.23
(1,1568)	1:38:A:VAL:HG22	1:39:A:ILE:H	13	0.23
(1,1568)	1:38:A:VAL:HG23	1:39:A:ILE:H	13	0.23
(1,1561)	1:26:A:ASP:HB2	1:71:A:HIS:H	3	0.23
(1,1561)	1:26:A:ASP:HB3	1:71:A:HIS:H	3	0.23
(1,1492)	1:2:A:TRP:HB2	1:91:A:ARG:H	15	0.23
(1,1492)	1:2:A:TRP:HB3	1:91:A:ARG:H	15	0.23
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB1	17	0.23
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB2	17	0.23
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB3	17	0.23
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD2	1	0.23
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD3	1	0.23
(1,1187)	1:61:A:VAL:HG21	1:64:A:VAL:H	15	0.23
(1,1187)	1:61:A:VAL:HG22	1:64:A:VAL:H	15	0.23
(1,1187)	1:61:A:VAL:HG23	1:64:A:VAL:H	15	0.23
(1,1179)	1:61:A:VAL:H	1:66:A:MET:HG2	5	0.23
(1,1179)	1:61:A:VAL:H	1:66:A:MET:HG3	5	0.23
(1,1126)	1:58:A:VAL:HG11	1:59:A:ALA:H	9	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1126)	1:58:A:VAL:HG12	1:59:A:ALA:H	9	0.23
(1,1126)	1:58:A:VAL:HG13	1:59:A:ALA:H	9	0.23
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB2	18	0.23
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB3	18	0.23
(1,979)	1:42:A:VAL:HG21	1:50:A:GLY:H	12	0.23
(1,979)	1:42:A:VAL:HG22	1:50:A:GLY:H	12	0.23
(1,979)	1:42:A:VAL:HG23	1:50:A:GLY:H	12	0.23
(1,954)	1:39:A:ILE:HG21	1:41:A:ASP:H	3	0.23
(1,954)	1:39:A:ILE:HG22	1:41:A:ASP:H	3	0.23
(1,954)	1:39:A:ILE:HG23	1:41:A:ASP:H	3	0.23
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	14	0.23
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	14	0.23
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG21	7	0.23
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG22	7	0.23
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG23	7	0.23
(1,768)	1:19:A:ILE:HG21	1:20:A:ALA:H	5	0.23
(1,768)	1:19:A:ILE:HG22	1:20:A:ALA:H	5	0.23
(1,768)	1:19:A:ILE:HG23	1:20:A:ALA:H	5	0.23
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD11	12	0.23
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD12	12	0.23
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD13	12	0.23
(1,612)	1:6:A:THR:HG21	1:87:A:ILE:H	3	0.23
(1,612)	1:6:A:THR:HG22	1:87:A:ILE:H	3	0.23
(1,612)	1:6:A:THR:HG23	1:87:A:ILE:H	3	0.23
(1,563)	1:3:A:GLU:H	1:91:A:ARG:HG2	15	0.23
(1,563)	1:3:A:GLU:H	1:91:A:ARG:HG3	15	0.23
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG11	19	0.23
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG12	19	0.23
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG13	19	0.23
(1,469)	1:37:A:ILE:HD11	1:74:A:ALA:HB1	16	0.23
(1,469)	1:37:A:ILE:HD11	1:74:A:ALA:HB2	16	0.23
(1,469)	1:37:A:ILE:HD11	1:74:A:ALA:HB3	16	0.23
(1,469)	1:37:A:ILE:HD12	1:74:A:ALA:HB1	16	0.23
(1,469)	1:37:A:ILE:HD12	1:74:A:ALA:HB2	16	0.23
(1,469)	1:37:A:ILE:HD12	1:74:A:ALA:HB3	16	0.23
(1,469)	1:37:A:ILE:HD13	1:74:A:ALA:HB1	16	0.23
(1,469)	1:37:A:ILE:HD13	1:74:A:ALA:HB2	16	0.23
(1,469)	1:37:A:ILE:HD13	1:74:A:ALA:HB3	16	0.23
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD11	18	0.23
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD12	18	0.23
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD13	18	0.23
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD11	18	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD12	18	0.23
(1,458)	1:9:A:LEU:HB3	1:87:A:ILE:HD13	18	0.23
(1,436)	1:37:A:ILE:HG21	1:74:A:ALA:HB1	2	0.23
(1,436)	1:37:A:ILE:HG21	1:74:A:ALA:HB2	2	0.23
(1,436)	1:37:A:ILE:HG21	1:74:A:ALA:HB3	2	0.23
(1,436)	1:37:A:ILE:HG22	1:74:A:ALA:HB1	2	0.23
(1,436)	1:37:A:ILE:HG22	1:74:A:ALA:HB2	2	0.23
(1,436)	1:37:A:ILE:HG22	1:74:A:ALA:HB3	2	0.23
(1,436)	1:37:A:ILE:HG23	1:74:A:ALA:HB1	2	0.23
(1,436)	1:37:A:ILE:HG23	1:74:A:ALA:HB2	2	0.23
(1,436)	1:37:A:ILE:HG23	1:74:A:ALA:HB3	2	0.23
(1,436)	1:37:A:ILE:HG21	1:74:A:ALA:HB1	3	0.23
(1,436)	1:37:A:ILE:HG21	1:74:A:ALA:HB2	3	0.23
(1,436)	1:37:A:ILE:HG21	1:74:A:ALA:HB3	3	0.23
(1,436)	1:37:A:ILE:HG22	1:74:A:ALA:HB1	3	0.23
(1,436)	1:37:A:ILE:HG22	1:74:A:ALA:HB2	3	0.23
(1,436)	1:37:A:ILE:HG22	1:74:A:ALA:HB3	3	0.23
(1,436)	1:37:A:ILE:HG23	1:74:A:ALA:HB1	3	0.23
(1,436)	1:37:A:ILE:HG23	1:74:A:ALA:HB2	3	0.23
(1,436)	1:37:A:ILE:HG23	1:74:A:ALA:HB3	3	0.23
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	9	0.23
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	9	0.23
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	9	0.23
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	9	0.23
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	9	0.23
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	9	0.23
(1,393)	1:81:A:SER:H	1:85:A:ALA:HB1	6	0.23
(1,393)	1:81:A:SER:H	1:85:A:ALA:HB2	6	0.23
(1,393)	1:81:A:SER:H	1:85:A:ALA:HB3	6	0.23
(1,365)	1:8:A:THR:HG21	1:86:A:LYS:HE2	14	0.23
(1,365)	1:8:A:THR:HG21	1:86:A:LYS:HE3	14	0.23
(1,365)	1:8:A:THR:HG22	1:86:A:LYS:HE2	14	0.23
(1,365)	1:8:A:THR:HG22	1:86:A:LYS:HE3	14	0.23
(1,365)	1:8:A:THR:HG23	1:86:A:LYS:HE2	14	0.23
(1,365)	1:8:A:THR:HG23	1:86:A:LYS:HE3	14	0.23
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG11	8	0.23
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG12	8	0.23
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG13	8	0.23
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD21	5	0.23
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD22	5	0.23
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD23	5	0.23
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD2	10	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,221)	1:55:A:ASN:HB3	1:57:A:ARG:HD3	10	0.23
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD2	15	0.23
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD3	15	0.23
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG11	12	0.22
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG12	12	0.22
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG13	12	0.22
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG21	12	0.22
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG22	12	0.22
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG23	12	0.22
(1,1585)	1:42:A:VAL:HG11	1:49:A:GLU:HB2	3	0.22
(1,1585)	1:42:A:VAL:HG12	1:49:A:GLU:HB2	3	0.22
(1,1585)	1:42:A:VAL:HG13	1:49:A:GLU:HB2	3	0.22
(1,1585)	1:42:A:VAL:HG21	1:49:A:GLU:HB2	3	0.22
(1,1585)	1:42:A:VAL:HG22	1:49:A:GLU:HB2	3	0.22
(1,1585)	1:42:A:VAL:HG23	1:49:A:GLU:HB2	3	0.22
(1,1584)	1:42:A:VAL:HG11	1:49:A:GLU:HA	10	0.22
(1,1584)	1:42:A:VAL:HG12	1:49:A:GLU:HA	10	0.22
(1,1584)	1:42:A:VAL:HG13	1:49:A:GLU:HA	10	0.22
(1,1584)	1:42:A:VAL:HG21	1:49:A:GLU:HA	10	0.22
(1,1584)	1:42:A:VAL:HG22	1:49:A:GLU:HA	10	0.22
(1,1584)	1:42:A:VAL:HG23	1:49:A:GLU:HA	10	0.22
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG11	14	0.22
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG12	14	0.22
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG13	14	0.22
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG21	14	0.22
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG22	14	0.22
(1,1556)	1:23:A:GLY:H	1:38:A:VAL:HG23	14	0.22
(1,1505)	1:7:A:VAL:HG11	1:87:A:ILE:H	3	0.22
(1,1505)	1:7:A:VAL:HG12	1:87:A:ILE:H	3	0.22
(1,1505)	1:7:A:VAL:HG13	1:87:A:ILE:H	3	0.22
(1,1505)	1:7:A:VAL:HG21	1:87:A:ILE:H	3	0.22
(1,1505)	1:7:A:VAL:HG22	1:87:A:ILE:H	3	0.22
(1,1505)	1:7:A:VAL:HG23	1:87:A:ILE:H	3	0.22
(1,1484)	1:60:A:MET:HE1	1:64:A:VAL:H	3	0.22
(1,1484)	1:60:A:MET:HE2	1:64:A:VAL:H	3	0.22
(1,1484)	1:60:A:MET:HE3	1:64:A:VAL:H	3	0.22
(1,1372)	1:79:A:ARG:HD2	1:80:A:LYS:H	8	0.22
(1,1372)	1:79:A:ARG:HD3	1:80:A:LYS:H	8	0.22
(1,1255)	1:69:A:VAL:HG21	1:74:A:ALA:H	11	0.22
(1,1255)	1:69:A:VAL:HG22	1:74:A:ALA:H	11	0.22
(1,1255)	1:69:A:VAL:HG23	1:74:A:ALA:H	11	0.22
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	17	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	17	0.22
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	17	0.22
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB2	8	0.22
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB3	8	0.22
(1,930)	1:37:A:ILE:HD11	1:71:A:HIS:H	2	0.22
(1,930)	1:37:A:ILE:HD12	1:71:A:HIS:H	2	0.22
(1,930)	1:37:A:ILE:HD13	1:71:A:HIS:H	2	0.22
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD11	3	0.22
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD12	3	0.22
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD13	3	0.22
(1,682)	1:11:A:ARG:H	1:83:A:LYS:HB2	8	0.22
(1,682)	1:11:A:ARG:H	1:83:A:LYS:HB3	8	0.22
(1,571)	1:3:A:GLU:HG2	1:4:A:GLN:H	1	0.22
(1,571)	1:3:A:GLU:HG3	1:4:A:GLN:H	1	0.22
(1,551)	1:1:A:ILE:HD11	1:2:A:TRP:H	19	0.22
(1,551)	1:1:A:ILE:HD12	1:2:A:TRP:H	19	0.22
(1,551)	1:1:A:ILE:HD13	1:2:A:TRP:H	19	0.22
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG11	13	0.22
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG12	13	0.22
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG13	13	0.22
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD11	8	0.22
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD12	8	0.22
(1,471)	1:21:A:ILE:HD11	1:37:A:ILE:HD13	8	0.22
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD11	8	0.22
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD12	8	0.22
(1,471)	1:21:A:ILE:HD12	1:37:A:ILE:HD13	8	0.22
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD11	8	0.22
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD12	8	0.22
(1,471)	1:21:A:ILE:HD13	1:37:A:ILE:HD13	8	0.22
(1,444)	1:21:A:ILE:HD11	1:74:A:ALA:H	8	0.22
(1,444)	1:21:A:ILE:HD12	1:74:A:ALA:H	8	0.22
(1,444)	1:21:A:ILE:HD13	1:74:A:ALA:H	8	0.22
(1,444)	1:21:A:ILE:HD11	1:74:A:ALA:H	16	0.22
(1,444)	1:21:A:ILE:HD12	1:74:A:ALA:H	16	0.22
(1,444)	1:21:A:ILE:HD13	1:74:A:ALA:H	16	0.22
(1,419)	1:21:A:ILE:HG21	1:21:A:ILE:HD11	18	0.22
(1,419)	1:21:A:ILE:HG21	1:21:A:ILE:HD12	18	0.22
(1,419)	1:21:A:ILE:HG21	1:21:A:ILE:HD13	18	0.22
(1,419)	1:21:A:ILE:HG22	1:21:A:ILE:HD11	18	0.22
(1,419)	1:21:A:ILE:HG22	1:21:A:ILE:HD12	18	0.22
(1,419)	1:21:A:ILE:HG22	1:21:A:ILE:HD13	18	0.22
(1,419)	1:21:A:ILE:HG23	1:21:A:ILE:HD11	18	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,419)	1:21:A:ILE:HG23	1:21:A:ILE:HD12	18	0.22
(1,419)	1:21:A:ILE:HG23	1:21:A:ILE:HD13	18	0.22
(1,375)	1:42:A:VAL:HG11	1:50:A:GLY:H	6	0.22
(1,375)	1:42:A:VAL:HG12	1:50:A:GLY:H	6	0.22
(1,375)	1:42:A:VAL:HG13	1:50:A:GLY:H	6	0.22
(1,268)	1:60:A:MET:HG2	1:88:A:THR:HG21	19	0.22
(1,268)	1:60:A:MET:HG2	1:88:A:THR:HG22	19	0.22
(1,268)	1:60:A:MET:HG2	1:88:A:THR:HG23	19	0.22
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG2	17	0.22
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG3	17	0.22
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG2	17	0.22
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG3	17	0.22
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG2	17	0.22
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG3	17	0.22
(1,169)	1:24:A:GLY:HA2	1:37:A:ILE:HD11	7	0.22
(1,169)	1:24:A:GLY:HA2	1:37:A:ILE:HD12	7	0.22
(1,169)	1:24:A:GLY:HA2	1:37:A:ILE:HD13	7	0.22
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	2	0.22
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	2	0.22
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	2	0.22
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	3	0.22
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	3	0.22
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	3	0.22
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	8	0.22
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	8	0.22
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	8	0.22
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	20	0.22
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	20	0.22
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	20	0.22
(1,33)	1:37:A:ILE:HG21	1:71:A:HIS:HA	6	0.22
(1,33)	1:37:A:ILE:HG22	1:71:A:HIS:HA	6	0.22
(1,33)	1:37:A:ILE:HG23	1:71:A:HIS:HA	6	0.22
(1,1601)	1:52:A:LEU:HD11	1:87:A:ILE:H	15	0.21
(1,1601)	1:52:A:LEU:HD12	1:87:A:ILE:H	15	0.21
(1,1601)	1:52:A:LEU:HD13	1:87:A:ILE:H	15	0.21
(1,1601)	1:52:A:LEU:HD21	1:87:A:ILE:H	15	0.21
(1,1601)	1:52:A:LEU:HD22	1:87:A:ILE:H	15	0.21
(1,1601)	1:52:A:LEU:HD23	1:87:A:ILE:H	15	0.21
(1,1568)	1:38:A:VAL:HG11	1:39:A:ILE:H	9	0.21
(1,1568)	1:38:A:VAL:HG12	1:39:A:ILE:H	9	0.21
(1,1568)	1:38:A:VAL:HG13	1:39:A:ILE:H	9	0.21
(1,1568)	1:38:A:VAL:HG21	1:39:A:ILE:H	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1568)	1:38:A:VAL:HG22	1:39:A:ILE:H	9	0.21
(1,1568)	1:38:A:VAL:HG23	1:39:A:ILE:H	9	0.21
(1,1568)	1:38:A:VAL:HG11	1:39:A:ILE:H	16	0.21
(1,1568)	1:38:A:VAL:HG12	1:39:A:ILE:H	16	0.21
(1,1568)	1:38:A:VAL:HG13	1:39:A:ILE:H	16	0.21
(1,1568)	1:38:A:VAL:HG21	1:39:A:ILE:H	16	0.21
(1,1568)	1:38:A:VAL:HG22	1:39:A:ILE:H	16	0.21
(1,1568)	1:38:A:VAL:HG23	1:39:A:ILE:H	16	0.21
(1,1512)	1:10:A:HIS:HB2	1:84:A:ASN:H	6	0.21
(1,1512)	1:10:A:HIS:HB3	1:84:A:ASN:H	6	0.21
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE2	7	0.21
(1,1489)	1:2:A:TRP:H	1:92:A:LYS:HE3	7	0.21
(1,1213)	1:60:A:MET:HE1	1:63:A:GLY:H	16	0.21
(1,1213)	1:60:A:MET:HE2	1:63:A:GLY:H	16	0.21
(1,1213)	1:60:A:MET:HE3	1:63:A:GLY:H	16	0.21
(1,1187)	1:61:A:VAL:HG21	1:64:A:VAL:H	19	0.21
(1,1187)	1:61:A:VAL:HG22	1:64:A:VAL:H	19	0.21
(1,1187)	1:61:A:VAL:HG23	1:64:A:VAL:H	19	0.21
(1,1126)	1:58:A:VAL:HG11	1:59:A:ALA:H	16	0.21
(1,1126)	1:58:A:VAL:HG12	1:59:A:ALA:H	16	0.21
(1,1126)	1:58:A:VAL:HG13	1:59:A:ALA:H	16	0.21
(1,1108)	1:57:A:ARG:H	1:57:A:ARG:HD2	7	0.21
(1,1108)	1:57:A:ARG:H	1:57:A:ARG:HD3	7	0.21
(1,982)	1:42:A:VAL:HG21	1:52:A:LEU:H	16	0.21
(1,982)	1:42:A:VAL:HG22	1:52:A:LEU:H	16	0.21
(1,982)	1:42:A:VAL:HG23	1:52:A:LEU:H	16	0.21
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB2	12	0.21
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB3	12	0.21
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB2	15	0.21
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB3	15	0.21
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD11	20	0.21
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD12	20	0.21
(1,723)	1:17:A:PHE:H	1:43:A:LEU:HD13	20	0.21
(1,682)	1:11:A:ARG:H	1:83:A:LYS:HB2	17	0.21
(1,682)	1:11:A:ARG:H	1:83:A:LYS:HB3	17	0.21
(1,571)	1:3:A:GLU:HG2	1:4:A:GLN:H	8	0.21
(1,571)	1:3:A:GLU:HG3	1:4:A:GLN:H	8	0.21
(1,506)	1:39:A:ILE:HD11	1:89:A:ILE:HA	9	0.21
(1,506)	1:39:A:ILE:HD12	1:89:A:ILE:HA	9	0.21
(1,506)	1:39:A:ILE:HD13	1:89:A:ILE:HA	9	0.21
(1,468)	1:21:A:ILE:HB	1:37:A:ILE:HD11	16	0.21
(1,468)	1:21:A:ILE:HB	1:37:A:ILE:HD12	16	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,468)	1:21:A:ILE:HB	1:37:A:ILE:HD13	16	0.21
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD11	2	0.21
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD12	2	0.21
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD13	2	0.21
(1,461)	1:39:A:ILE:HD11	1:56:A:ASP:H	16	0.21
(1,461)	1:39:A:ILE:HD12	1:56:A:ASP:H	16	0.21
(1,461)	1:39:A:ILE:HD13	1:56:A:ASP:H	16	0.21
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD11	19	0.21
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD12	19	0.21
(1,460)	1:19:A:ILE:HD11	1:39:A:ILE:HD13	19	0.21
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD11	19	0.21
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD12	19	0.21
(1,460)	1:19:A:ILE:HD12	1:39:A:ILE:HD13	19	0.21
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD11	19	0.21
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD12	19	0.21
(1,460)	1:19:A:ILE:HD13	1:39:A:ILE:HD13	19	0.21
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD11	11	0.21
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD12	11	0.21
(1,450)	1:85:A:ALA:H	1:87:A:ILE:HD13	11	0.21
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG2	5	0.21
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG3	5	0.21
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG2	5	0.21
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG3	5	0.21
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG2	5	0.21
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG3	5	0.21
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG2	10	0.21
(1,435)	1:69:A:VAL:HG21	1:77:A:GLN:HG3	10	0.21
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG2	10	0.21
(1,435)	1:69:A:VAL:HG22	1:77:A:GLN:HG3	10	0.21
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG2	10	0.21
(1,435)	1:69:A:VAL:HG23	1:77:A:GLN:HG3	10	0.21
(1,427)	1:21:A:ILE:HG21	1:37:A:ILE:HB	1	0.21
(1,427)	1:21:A:ILE:HG22	1:37:A:ILE:HB	1	0.21
(1,427)	1:21:A:ILE:HG23	1:37:A:ILE:HB	1	0.21
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG2	1	0.21
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG3	1	0.21
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG2	1	0.21
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG3	1	0.21
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG2	1	0.21
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG3	1	0.21
(1,313)	1:52:A:LEU:HD11	1:89:A:ILE:HB	4	0.21
(1,313)	1:52:A:LEU:HD12	1:89:A:ILE:HB	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,313)	1:52:A:LEU:HD13	1:89:A:ILE:HB	4	0.21
(1,312)	1:7:A:VAL:HB	1:52:A:LEU:HD11	5	0.21
(1,312)	1:7:A:VAL:HB	1:52:A:LEU:HD12	5	0.21
(1,312)	1:7:A:VAL:HB	1:52:A:LEU:HD13	5	0.21
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	20	0.21
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	20	0.21
(1,178)	1:79:A:ARG:HD2	1:80:A:LYS:HA	11	0.21
(1,178)	1:79:A:ARG:HD3	1:80:A:LYS:HA	11	0.21
(1,136)	1:58:A:VAL:HG21	1:59:A:ALA:HA	8	0.21
(1,136)	1:58:A:VAL:HG22	1:59:A:ALA:HA	8	0.21
(1,136)	1:58:A:VAL:HG23	1:59:A:ALA:HA	8	0.21
(1,134)	1:35:A:THR:HG21	1:68:A:ASN:HA	8	0.21
(1,134)	1:35:A:THR:HG22	1:68:A:ASN:HA	8	0.21
(1,134)	1:35:A:THR:HG23	1:68:A:ASN:HA	8	0.21
(1,17)	1:21:A:ILE:HD11	1:75:A:VAL:HA	5	0.21
(1,17)	1:21:A:ILE:HD12	1:75:A:VAL:HA	5	0.21
(1,17)	1:21:A:ILE:HD13	1:75:A:VAL:HA	5	0.21
(1,12)	1:75:A:VAL:HA	1:79:A:ARG:HG2	18	0.21
(1,12)	1:75:A:VAL:HA	1:79:A:ARG:HG3	18	0.21
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG11	18	0.2
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG12	18	0.2
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG13	18	0.2
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG21	18	0.2
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG22	18	0.2
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG23	18	0.2
(1,1574)	1:38:A:VAL:HG11	1:58:A:VAL:H	15	0.2
(1,1574)	1:38:A:VAL:HG12	1:58:A:VAL:H	15	0.2
(1,1574)	1:38:A:VAL:HG13	1:58:A:VAL:H	15	0.2
(1,1574)	1:38:A:VAL:HG21	1:58:A:VAL:H	15	0.2
(1,1574)	1:38:A:VAL:HG22	1:58:A:VAL:H	15	0.2
(1,1574)	1:38:A:VAL:HG23	1:58:A:VAL:H	15	0.2
(1,1504)	1:7:A:VAL:HG11	1:51:A:GLN:HA	13	0.2
(1,1504)	1:7:A:VAL:HG12	1:51:A:GLN:HA	13	0.2
(1,1504)	1:7:A:VAL:HG13	1:51:A:GLN:HA	13	0.2
(1,1504)	1:7:A:VAL:HG21	1:51:A:GLN:HA	13	0.2
(1,1504)	1:7:A:VAL:HG22	1:51:A:GLN:HA	13	0.2
(1,1504)	1:7:A:VAL:HG23	1:51:A:GLN:HA	13	0.2
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD11	18	0.2
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD12	18	0.2
(1,1425)	1:87:A:ILE:H	1:87:A:ILE:HD13	18	0.2
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB1	2	0.2
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB2	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB3	2	0.2
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB1	3	0.2
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB2	3	0.2
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB3	3	0.2
(1,1372)	1:79:A:ARG:HD2	1:80:A:LYS:H	6	0.2
(1,1372)	1:79:A:ARG:HD3	1:80:A:LYS:H	6	0.2
(1,1369)	1:79:A:ARG:HB2	1:82:A:GLY:H	11	0.2
(1,1369)	1:79:A:ARG:HB3	1:82:A:GLY:H	11	0.2
(1,1363)	1:79:A:ARG:H	1:79:A:ARG:HD2	7	0.2
(1,1363)	1:79:A:ARG:H	1:79:A:ARG:HD3	7	0.2
(1,1363)	1:79:A:ARG:H	1:79:A:ARG:HD2	17	0.2
(1,1363)	1:79:A:ARG:H	1:79:A:ARG:HD3	17	0.2
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	7	0.2
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	7	0.2
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	7	0.2
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG2	7	0.2
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG3	7	0.2
(1,1100)	1:53:A:GLN:HB2	1:56:A:ASP:H	2	0.2
(1,1100)	1:53:A:GLN:HB3	1:56:A:ASP:H	2	0.2
(1,1007)	1:44:A:LYS:H	1:44:A:LYS:HE2	4	0.2
(1,1007)	1:44:A:LYS:H	1:44:A:LYS:HE3	4	0.2
(1,936)	1:38:A:VAL:HG11	1:39:A:ILE:H	5	0.2
(1,936)	1:38:A:VAL:HG12	1:39:A:ILE:H	5	0.2
(1,936)	1:38:A:VAL:HG13	1:39:A:ILE:H	5	0.2
(1,781)	1:21:A:ILE:HG21	1:75:A:VAL:H	17	0.2
(1,781)	1:21:A:ILE:HG22	1:75:A:VAL:H	17	0.2
(1,781)	1:21:A:ILE:HG23	1:75:A:VAL:H	17	0.2
(1,779)	1:21:A:ILE:HG21	1:74:A:ALA:H	14	0.2
(1,779)	1:21:A:ILE:HG22	1:74:A:ALA:H	14	0.2
(1,779)	1:21:A:ILE:HG23	1:74:A:ALA:H	14	0.2
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	5	0.2
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	5	0.2
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	5	0.2
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD11	1	0.2
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD12	1	0.2
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD13	1	0.2
(1,481)	1:6:A:THR:HA	1:89:A:ILE:HD11	14	0.2
(1,481)	1:6:A:THR:HA	1:89:A:ILE:HD12	14	0.2
(1,481)	1:6:A:THR:HA	1:89:A:ILE:HD13	14	0.2
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG21	16	0.2
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG22	16	0.2
(1,449)	1:21:A:ILE:HD11	1:37:A:ILE:HG23	16	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG21	16	0.2
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG22	16	0.2
(1,449)	1:21:A:ILE:HD12	1:37:A:ILE:HG23	16	0.2
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG21	16	0.2
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG22	16	0.2
(1,449)	1:21:A:ILE:HD13	1:37:A:ILE:HG23	16	0.2
(1,445)	1:21:A:ILE:HD11	1:37:A:ILE:HB	18	0.2
(1,445)	1:21:A:ILE:HD12	1:37:A:ILE:HB	18	0.2
(1,445)	1:21:A:ILE:HD13	1:37:A:ILE:HB	18	0.2
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG11	3	0.2
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG12	3	0.2
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG13	3	0.2
(1,305)	1:86:A:LYS:HG3	1:87:A:ILE:HG12	6	0.2
(1,305)	1:86:A:LYS:HG3	1:87:A:ILE:HG13	6	0.2
(1,136)	1:58:A:VAL:HG21	1:59:A:ALA:HA	5	0.2
(1,136)	1:58:A:VAL:HG22	1:59:A:ALA:HA	5	0.2
(1,136)	1:58:A:VAL:HG23	1:59:A:ALA:HA	5	0.2
(1,136)	1:58:A:VAL:HG21	1:59:A:ALA:HA	10	0.2
(1,136)	1:58:A:VAL:HG22	1:59:A:ALA:HA	10	0.2
(1,136)	1:58:A:VAL:HG23	1:59:A:ALA:HA	10	0.2
(1,136)	1:58:A:VAL:HG21	1:59:A:ALA:HA	11	0.2
(1,136)	1:58:A:VAL:HG22	1:59:A:ALA:HA	11	0.2
(1,136)	1:58:A:VAL:HG23	1:59:A:ALA:HA	11	0.2
(1,136)	1:58:A:VAL:HG21	1:59:A:ALA:HA	18	0.2
(1,136)	1:58:A:VAL:HG22	1:59:A:ALA:HA	18	0.2
(1,136)	1:58:A:VAL:HG23	1:59:A:ALA:HA	18	0.2
(1,136)	1:58:A:VAL:HG21	1:59:A:ALA:HA	20	0.2
(1,136)	1:58:A:VAL:HG22	1:59:A:ALA:HA	20	0.2
(1,136)	1:58:A:VAL:HG23	1:59:A:ALA:HA	20	0.2
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB2	18	0.19
(1,1673)	1:83:A:LYS:HD2	1:84:A:ASN:HB3	18	0.19
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB2	18	0.19
(1,1673)	1:83:A:LYS:HD3	1:84:A:ASN:HB3	18	0.19
(1,1600)	1:52:A:LEU:HD11	1:56:A:ASP:HB3	1	0.19
(1,1600)	1:52:A:LEU:HD12	1:56:A:ASP:HB3	1	0.19
(1,1600)	1:52:A:LEU:HD13	1:56:A:ASP:HB3	1	0.19
(1,1600)	1:52:A:LEU:HD21	1:56:A:ASP:HB3	1	0.19
(1,1600)	1:52:A:LEU:HD22	1:56:A:ASP:HB3	1	0.19
(1,1600)	1:52:A:LEU:HD23	1:56:A:ASP:HB3	1	0.19
(1,1574)	1:38:A:VAL:HG11	1:58:A:VAL:H	18	0.19
(1,1574)	1:38:A:VAL:HG12	1:58:A:VAL:H	18	0.19
(1,1574)	1:38:A:VAL:HG13	1:58:A:VAL:H	18	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1574)	1:38:A:VAL:HG21	1:58:A:VAL:H	18	0.19
(1,1574)	1:38:A:VAL:HG22	1:58:A:VAL:H	18	0.19
(1,1574)	1:38:A:VAL:HG23	1:58:A:VAL:H	18	0.19
(1,1568)	1:38:A:VAL:HG11	1:39:A:ILE:H	11	0.19
(1,1568)	1:38:A:VAL:HG12	1:39:A:ILE:H	11	0.19
(1,1568)	1:38:A:VAL:HG13	1:39:A:ILE:H	11	0.19
(1,1568)	1:38:A:VAL:HG21	1:39:A:ILE:H	11	0.19
(1,1568)	1:38:A:VAL:HG22	1:39:A:ILE:H	11	0.19
(1,1568)	1:38:A:VAL:HG23	1:39:A:ILE:H	11	0.19
(1,1510)	1:10:A:HIS:HB2	1:12:A:ALA:H	10	0.19
(1,1510)	1:10:A:HIS:HB3	1:12:A:ALA:H	10	0.19
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	5	0.19
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	5	0.19
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	5	0.19
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	5	0.19
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	5	0.19
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	5	0.19
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD2	20	0.19
(1,1485)	1:1:A:ILE:H	1:92:A:LYS:HD3	20	0.19
(1,1484)	1:60:A:MET:HE1	1:64:A:VAL:H	1	0.19
(1,1484)	1:60:A:MET:HE2	1:64:A:VAL:H	1	0.19
(1,1484)	1:60:A:MET:HE3	1:64:A:VAL:H	1	0.19
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	6	0.19
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	6	0.19
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	16	0.19
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	16	0.19
(1,1372)	1:79:A:ARG:HD2	1:80:A:LYS:H	13	0.19
(1,1372)	1:79:A:ARG:HD3	1:80:A:LYS:H	13	0.19
(1,1369)	1:79:A:ARG:HB2	1:82:A:GLY:H	6	0.19
(1,1369)	1:79:A:ARG:HB3	1:82:A:GLY:H	6	0.19
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	7	0.19
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	7	0.19
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	7	0.19
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	10	0.19
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	10	0.19
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	10	0.19
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	17	0.19
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	17	0.19
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	17	0.19
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	4	0.19
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	4	0.19
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1253)	1:69:A:VAL:HG21	1:71:A:HIS:H	6	0.19
(1,1253)	1:69:A:VAL:HG22	1:71:A:HIS:H	6	0.19
(1,1253)	1:69:A:VAL:HG23	1:71:A:HIS:H	6	0.19
(1,1226)	1:65:A:SER:H	1:69:A:VAL:HG11	16	0.19
(1,1226)	1:65:A:SER:H	1:69:A:VAL:HG12	16	0.19
(1,1226)	1:65:A:SER:H	1:69:A:VAL:HG13	16	0.19
(1,1201)	1:62:A:ASN:H	1:87:A:ILE:HG12	9	0.19
(1,1201)	1:62:A:ASN:H	1:87:A:ILE:HG13	9	0.19
(1,1195)	1:60:A:MET:HE1	1:62:A:ASN:H	12	0.19
(1,1195)	1:60:A:MET:HE2	1:62:A:ASN:H	12	0.19
(1,1195)	1:60:A:MET:HE3	1:62:A:ASN:H	12	0.19
(1,1187)	1:61:A:VAL:HG21	1:64:A:VAL:H	1	0.19
(1,1187)	1:61:A:VAL:HG22	1:64:A:VAL:H	1	0.19
(1,1187)	1:61:A:VAL:HG23	1:64:A:VAL:H	1	0.19
(1,1126)	1:58:A:VAL:HG11	1:59:A:ALA:H	6	0.19
(1,1126)	1:58:A:VAL:HG12	1:59:A:ALA:H	6	0.19
(1,1126)	1:58:A:VAL:HG13	1:59:A:ALA:H	6	0.19
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD11	4	0.19
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD12	4	0.19
(1,658)	1:9:A:LEU:H	1:87:A:ILE:HD13	4	0.19
(1,642)	1:8:A:THR:HG21	1:10:A:HIS:H	1	0.19
(1,642)	1:8:A:THR:HG22	1:10:A:HIS:H	1	0.19
(1,642)	1:8:A:THR:HG23	1:10:A:HIS:H	1	0.19
(1,506)	1:39:A:ILE:HD11	1:89:A:ILE:HA	10	0.19
(1,506)	1:39:A:ILE:HD12	1:89:A:ILE:HA	10	0.19
(1,506)	1:39:A:ILE:HD13	1:89:A:ILE:HA	10	0.19
(1,498)	1:21:A:ILE:HA	1:39:A:ILE:HG12	5	0.19
(1,498)	1:21:A:ILE:HA	1:39:A:ILE:HG13	5	0.19
(1,467)	1:37:A:ILE:HD11	1:74:A:ALA:H	16	0.19
(1,467)	1:37:A:ILE:HD12	1:74:A:ALA:H	16	0.19
(1,467)	1:37:A:ILE:HD13	1:74:A:ALA:H	16	0.19
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	10	0.19
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	10	0.19
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	10	0.19
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	10	0.19
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	10	0.19
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	10	0.19
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	14	0.19
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	14	0.19
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	14	0.19
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	14	0.19
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	14	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	14	0.19
(1,393)	1:81:A:SER:H	1:85:A:ALA:HB1	3	0.19
(1,393)	1:81:A:SER:H	1:85:A:ALA:HB2	3	0.19
(1,393)	1:81:A:SER:H	1:85:A:ALA:HB3	3	0.19
(1,386)	1:61:A:VAL:HG11	1:87:A:ILE:HG12	6	0.19
(1,386)	1:61:A:VAL:HG11	1:87:A:ILE:HG13	6	0.19
(1,386)	1:61:A:VAL:HG12	1:87:A:ILE:HG12	6	0.19
(1,386)	1:61:A:VAL:HG12	1:87:A:ILE:HG13	6	0.19
(1,386)	1:61:A:VAL:HG13	1:87:A:ILE:HG12	6	0.19
(1,386)	1:61:A:VAL:HG13	1:87:A:ILE:HG13	6	0.19
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG11	14	0.19
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG12	14	0.19
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG13	14	0.19
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD21	12	0.19
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD22	12	0.19
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD23	12	0.19
(1,203)	1:8:A:THR:HG21	1:84:A:ASN:HB2	1	0.19
(1,203)	1:8:A:THR:HG22	1:84:A:ASN:HB2	1	0.19
(1,203)	1:8:A:THR:HG23	1:84:A:ASN:HB2	1	0.19
(1,136)	1:58:A:VAL:HG21	1:59:A:ALA:HA	3	0.19
(1,136)	1:58:A:VAL:HG22	1:59:A:ALA:HA	3	0.19
(1,136)	1:58:A:VAL:HG23	1:59:A:ALA:HA	3	0.19
(1,136)	1:58:A:VAL:HG21	1:59:A:ALA:HA	13	0.19
(1,136)	1:58:A:VAL:HG22	1:59:A:ALA:HA	13	0.19
(1,136)	1:58:A:VAL:HG23	1:59:A:ALA:HA	13	0.19
(1,136)	1:58:A:VAL:HG21	1:59:A:ALA:HA	17	0.19
(1,136)	1:58:A:VAL:HG22	1:59:A:ALA:HA	17	0.19
(1,136)	1:58:A:VAL:HG23	1:59:A:ALA:HA	17	0.19
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG2	17	0.19
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG3	17	0.19
(1,93)	1:44:A:LYS:HA	1:44:A:LYS:HD2	7	0.19
(1,93)	1:44:A:LYS:HA	1:44:A:LYS:HD3	7	0.19
(1,1589)	1:42:A:VAL:HG11	1:52:A:LEU:H	12	0.18
(1,1589)	1:42:A:VAL:HG12	1:52:A:LEU:H	12	0.18
(1,1589)	1:42:A:VAL:HG13	1:52:A:LEU:H	12	0.18
(1,1589)	1:42:A:VAL:HG21	1:52:A:LEU:H	12	0.18
(1,1589)	1:42:A:VAL:HG22	1:52:A:LEU:H	12	0.18
(1,1589)	1:42:A:VAL:HG23	1:52:A:LEU:H	12	0.18
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	15	0.18
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	15	0.18
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	15	0.18
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	15	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	15	0.18
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	15	0.18
(1,1585)	1:42:A:VAL:HG11	1:49:A:GLU:HB2	13	0.18
(1,1585)	1:42:A:VAL:HG12	1:49:A:GLU:HB2	13	0.18
(1,1585)	1:42:A:VAL:HG13	1:49:A:GLU:HB2	13	0.18
(1,1585)	1:42:A:VAL:HG21	1:49:A:GLU:HB2	13	0.18
(1,1585)	1:42:A:VAL:HG22	1:49:A:GLU:HB2	13	0.18
(1,1585)	1:42:A:VAL:HG23	1:49:A:GLU:HB2	13	0.18
(1,1571)	1:38:A:VAL:HG11	1:40:A:SER:HB2	4	0.18
(1,1571)	1:38:A:VAL:HG11	1:40:A:SER:HB3	4	0.18
(1,1571)	1:38:A:VAL:HG12	1:40:A:SER:HB2	4	0.18
(1,1571)	1:38:A:VAL:HG12	1:40:A:SER:HB3	4	0.18
(1,1571)	1:38:A:VAL:HG13	1:40:A:SER:HB2	4	0.18
(1,1571)	1:38:A:VAL:HG13	1:40:A:SER:HB3	4	0.18
(1,1571)	1:38:A:VAL:HG21	1:40:A:SER:HB2	4	0.18
(1,1571)	1:38:A:VAL:HG21	1:40:A:SER:HB3	4	0.18
(1,1571)	1:38:A:VAL:HG22	1:40:A:SER:HB2	4	0.18
(1,1571)	1:38:A:VAL:HG22	1:40:A:SER:HB3	4	0.18
(1,1571)	1:38:A:VAL:HG23	1:40:A:SER:HB2	4	0.18
(1,1571)	1:38:A:VAL:HG23	1:40:A:SER:HB3	4	0.18
(1,1504)	1:7:A:VAL:HG11	1:51:A:GLN:HA	15	0.18
(1,1504)	1:7:A:VAL:HG12	1:51:A:GLN:HA	15	0.18
(1,1504)	1:7:A:VAL:HG13	1:51:A:GLN:HA	15	0.18
(1,1504)	1:7:A:VAL:HG21	1:51:A:GLN:HA	15	0.18
(1,1504)	1:7:A:VAL:HG22	1:51:A:GLN:HA	15	0.18
(1,1504)	1:7:A:VAL:HG23	1:51:A:GLN:HA	15	0.18
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD11	14	0.18
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD12	14	0.18
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD13	14	0.18
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD21	14	0.18
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD22	14	0.18
(1,1500)	1:7:A:VAL:HB	1:52:A:LEU:HD23	14	0.18
(1,1492)	1:2:A:TRP:HB2	1:91:A:ARG:H	5	0.18
(1,1492)	1:2:A:TRP:HB3	1:91:A:ARG:H	5	0.18
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB2	19	0.18
(1,1487)	1:1:A:ILE:HD11	1:2:A:TRP:HB3	19	0.18
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB2	19	0.18
(1,1487)	1:1:A:ILE:HD12	1:2:A:TRP:HB3	19	0.18
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB2	19	0.18
(1,1487)	1:1:A:ILE:HD13	1:2:A:TRP:HB3	19	0.18
(1,1438)	1:89:A:ILE:HD11	1:90:A:ARG:H	14	0.18
(1,1438)	1:89:A:ILE:HD12	1:90:A:ARG:H	14	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1438)	1:89:A:ILE:HD13	1:90:A:ARG:H	14	0.18
(1,1369)	1:79:A:ARG:HB2	1:82:A:GLY:H	13	0.18
(1,1369)	1:79:A:ARG:HB3	1:82:A:GLY:H	13	0.18
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG2	6	0.18
(1,1337)	1:77:A:GLN:H	1:77:A:GLN:HG3	6	0.18
(1,1188)	1:77:A:GLN:H	1:78:A:LEU:HD21	6	0.18
(1,1188)	1:77:A:GLN:H	1:78:A:LEU:HD22	6	0.18
(1,1188)	1:77:A:GLN:H	1:78:A:LEU:HD23	6	0.18
(1,1187)	1:61:A:VAL:HG21	1:64:A:VAL:H	5	0.18
(1,1187)	1:61:A:VAL:HG22	1:64:A:VAL:H	5	0.18
(1,1187)	1:61:A:VAL:HG23	1:64:A:VAL:H	5	0.18
(1,1187)	1:61:A:VAL:HG21	1:64:A:VAL:H	11	0.18
(1,1187)	1:61:A:VAL:HG22	1:64:A:VAL:H	11	0.18
(1,1187)	1:61:A:VAL:HG23	1:64:A:VAL:H	11	0.18
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	12	0.18
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	12	0.18
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	12	0.18
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	16	0.18
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	16	0.18
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	16	0.18
(1,918)	1:66:A:MET:H	1:69:A:VAL:HG11	7	0.18
(1,918)	1:66:A:MET:H	1:69:A:VAL:HG12	7	0.18
(1,918)	1:66:A:MET:H	1:69:A:VAL:HG13	7	0.18
(1,862)	1:26:A:ASP:H	1:27:A:ASN:HB2	7	0.18
(1,862)	1:26:A:ASP:H	1:27:A:ASN:HB3	7	0.18
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD11	17	0.18
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD12	17	0.18
(1,802)	1:23:A:GLY:H	1:37:A:ILE:HD13	17	0.18
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG21	12	0.18
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG22	12	0.18
(1,796)	1:22:A:SER:H	1:37:A:ILE:HG23	12	0.18
(1,768)	1:19:A:ILE:HG21	1:20:A:ALA:H	3	0.18
(1,768)	1:19:A:ILE:HG22	1:20:A:ALA:H	3	0.18
(1,768)	1:19:A:ILE:HG23	1:20:A:ALA:H	3	0.18
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	1	0.18
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	1	0.18
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	1	0.18
(1,571)	1:3:A:GLU:HG2	1:4:A:GLN:H	17	0.18
(1,571)	1:3:A:GLU:HG3	1:4:A:GLN:H	17	0.18
(1,563)	1:3:A:GLU:H	1:91:A:ARG:HG2	8	0.18
(1,563)	1:3:A:GLU:H	1:91:A:ARG:HG3	8	0.18
(1,467)	1:37:A:ILE:HD11	1:74:A:ALA:H	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,467)	1:37:A:ILE:HD12	1:74:A:ALA:H	10	0.18
(1,467)	1:37:A:ILE:HD13	1:74:A:ALA:H	10	0.18
(1,461)	1:39:A:ILE:HD11	1:56:A:ASP:H	12	0.18
(1,461)	1:39:A:ILE:HD12	1:56:A:ASP:H	12	0.18
(1,461)	1:39:A:ILE:HD13	1:56:A:ASP:H	12	0.18
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	5	0.18
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	5	0.18
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	5	0.18
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	14	0.18
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	14	0.18
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	14	0.18
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	20	0.18
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	20	0.18
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	20	0.18
(1,419)	1:21:A:ILE:HG21	1:21:A:ILE:HD11	15	0.18
(1,419)	1:21:A:ILE:HG21	1:21:A:ILE:HD12	15	0.18
(1,419)	1:21:A:ILE:HG21	1:21:A:ILE:HD13	15	0.18
(1,419)	1:21:A:ILE:HG22	1:21:A:ILE:HD11	15	0.18
(1,419)	1:21:A:ILE:HG22	1:21:A:ILE:HD12	15	0.18
(1,419)	1:21:A:ILE:HG22	1:21:A:ILE:HD13	15	0.18
(1,419)	1:21:A:ILE:HG23	1:21:A:ILE:HD11	15	0.18
(1,419)	1:21:A:ILE:HG23	1:21:A:ILE:HD12	15	0.18
(1,419)	1:21:A:ILE:HG23	1:21:A:ILE:HD13	15	0.18
(1,375)	1:42:A:VAL:HG11	1:50:A:GLY:H	10	0.18
(1,375)	1:42:A:VAL:HG12	1:50:A:GLY:H	10	0.18
(1,375)	1:42:A:VAL:HG13	1:50:A:GLY:H	10	0.18
(1,360)	1:58:A:VAL:HG11	1:88:A:THR:H	16	0.18
(1,360)	1:58:A:VAL:HG12	1:88:A:THR:H	16	0.18
(1,360)	1:58:A:VAL:HG13	1:88:A:THR:H	16	0.18
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG2	3	0.18
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG3	3	0.18
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG2	3	0.18
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG3	3	0.18
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG2	3	0.18
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG3	3	0.18
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG21	9	0.18
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG22	9	0.18
(1,348)	1:25:A:ARG:HD2	1:35:A:THR:HG23	9	0.18
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG21	9	0.18
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG22	9	0.18
(1,348)	1:25:A:ARG:HD3	1:35:A:THR:HG23	9	0.18
(1,305)	1:86:A:LYS:HG3	1:87:A:ILE:HG12	12	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,305)	1:86:A:LYS:HG3	1:87:A:ILE:HG13	12	0.18
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE2	5	0.18
(1,191)	1:6:A:THR:HG21	1:86:A:LYS:HE3	5	0.18
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE2	5	0.18
(1,191)	1:6:A:THR:HG22	1:86:A:LYS:HE3	5	0.18
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE2	5	0.18
(1,191)	1:6:A:THR:HG23	1:86:A:LYS:HE3	5	0.18
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD11	1	0.18
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD12	1	0.18
(1,176)	1:24:A:GLY:HA3	1:37:A:ILE:HD13	1	0.18
(1,136)	1:58:A:VAL:HG21	1:59:A:ALA:HA	1	0.18
(1,136)	1:58:A:VAL:HG22	1:59:A:ALA:HA	1	0.18
(1,136)	1:58:A:VAL:HG23	1:59:A:ALA:HA	1	0.18
(1,136)	1:58:A:VAL:HG21	1:59:A:ALA:HA	2	0.18
(1,136)	1:58:A:VAL:HG22	1:59:A:ALA:HA	2	0.18
(1,136)	1:58:A:VAL:HG23	1:59:A:ALA:HA	2	0.18
(1,136)	1:58:A:VAL:HG21	1:59:A:ALA:HA	14	0.18
(1,136)	1:58:A:VAL:HG22	1:59:A:ALA:HA	14	0.18
(1,136)	1:58:A:VAL:HG23	1:59:A:ALA:HA	14	0.18
(1,136)	1:58:A:VAL:HG21	1:59:A:ALA:HA	15	0.18
(1,136)	1:58:A:VAL:HG22	1:59:A:ALA:HA	15	0.18
(1,136)	1:58:A:VAL:HG23	1:59:A:ALA:HA	15	0.18
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG11	12	0.17
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG12	12	0.17
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG13	12	0.17
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG21	12	0.17
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG22	12	0.17
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG23	12	0.17
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG11	18	0.17
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG12	18	0.17
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG13	18	0.17
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG21	18	0.17
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG22	18	0.17
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG23	18	0.17
(1,1619)	1:61:A:VAL:HG11	1:66:A:MET:HB2	4	0.17
(1,1619)	1:61:A:VAL:HG12	1:66:A:MET:HB2	4	0.17
(1,1619)	1:61:A:VAL:HG13	1:66:A:MET:HB2	4	0.17
(1,1619)	1:61:A:VAL:HG21	1:66:A:MET:HB2	4	0.17
(1,1619)	1:61:A:VAL:HG22	1:66:A:MET:HB2	4	0.17
(1,1619)	1:61:A:VAL:HG23	1:66:A:MET:HB2	4	0.17
(1,1616)	1:61:A:VAL:HG11	1:64:A:VAL:H	1	0.17
(1,1616)	1:61:A:VAL:HG12	1:64:A:VAL:H	1	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1616)	1:61:A:VAL:HG13	1:64:A:VAL:H	1	0.17
(1,1616)	1:61:A:VAL:HG21	1:64:A:VAL:H	1	0.17
(1,1616)	1:61:A:VAL:HG22	1:64:A:VAL:H	1	0.17
(1,1616)	1:61:A:VAL:HG23	1:64:A:VAL:H	1	0.17
(1,1601)	1:52:A:LEU:HD11	1:87:A:ILE:H	18	0.17
(1,1601)	1:52:A:LEU:HD12	1:87:A:ILE:H	18	0.17
(1,1601)	1:52:A:LEU:HD13	1:87:A:ILE:H	18	0.17
(1,1601)	1:52:A:LEU:HD21	1:87:A:ILE:H	18	0.17
(1,1601)	1:52:A:LEU:HD22	1:87:A:ILE:H	18	0.17
(1,1601)	1:52:A:LEU:HD23	1:87:A:ILE:H	18	0.17
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	18	0.17
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	18	0.17
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	18	0.17
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	18	0.17
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	18	0.17
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	18	0.17
(1,1585)	1:42:A:VAL:HG11	1:49:A:GLU:HB2	8	0.17
(1,1585)	1:42:A:VAL:HG12	1:49:A:GLU:HB2	8	0.17
(1,1585)	1:42:A:VAL:HG13	1:49:A:GLU:HB2	8	0.17
(1,1585)	1:42:A:VAL:HG21	1:49:A:GLU:HB2	8	0.17
(1,1585)	1:42:A:VAL:HG22	1:49:A:GLU:HB2	8	0.17
(1,1585)	1:42:A:VAL:HG23	1:49:A:GLU:HB2	8	0.17
(1,1504)	1:7:A:VAL:HG11	1:51:A:GLN:HA	7	0.17
(1,1504)	1:7:A:VAL:HG12	1:51:A:GLN:HA	7	0.17
(1,1504)	1:7:A:VAL:HG13	1:51:A:GLN:HA	7	0.17
(1,1504)	1:7:A:VAL:HG21	1:51:A:GLN:HA	7	0.17
(1,1504)	1:7:A:VAL:HG22	1:51:A:GLN:HA	7	0.17
(1,1504)	1:7:A:VAL:HG23	1:51:A:GLN:HA	7	0.17
(1,1484)	1:60:A:MET:HE1	1:64:A:VAL:H	18	0.17
(1,1484)	1:60:A:MET:HE2	1:64:A:VAL:H	18	0.17
(1,1484)	1:60:A:MET:HE3	1:64:A:VAL:H	18	0.17
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	11	0.17
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	11	0.17
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG2	17	0.17
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG3	17	0.17
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG2	19	0.17
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG3	19	0.17
(1,1358)	1:79:A:ARG:HG2	1:80:A:LYS:H	19	0.17
(1,1358)	1:79:A:ARG:HG3	1:80:A:LYS:H	19	0.17
(1,1255)	1:69:A:VAL:HG21	1:74:A:ALA:H	10	0.17
(1,1255)	1:69:A:VAL:HG22	1:74:A:ALA:H	10	0.17
(1,1255)	1:69:A:VAL:HG23	1:74:A:ALA:H	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1201)	1:62:A:ASN:H	1:87:A:ILE:HG12	8	0.17
(1,1201)	1:62:A:ASN:H	1:87:A:ILE:HG13	8	0.17
(1,1007)	1:44:A:LYS:H	1:44:A:LYS:HE2	18	0.17
(1,1007)	1:44:A:LYS:H	1:44:A:LYS:HE3	18	0.17
(1,929)	1:37:A:ILE:HD11	1:70:A:GLU:H	14	0.17
(1,929)	1:37:A:ILE:HD12	1:70:A:GLU:H	14	0.17
(1,929)	1:37:A:ILE:HD13	1:70:A:GLU:H	14	0.17
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD11	12	0.17
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD12	12	0.17
(1,903)	1:37:A:ILE:H	1:37:A:ILE:HD13	12	0.17
(1,829)	1:25:A:ARG:H	1:25:A:ARG:HG2	12	0.17
(1,829)	1:25:A:ARG:H	1:25:A:ARG:HG3	12	0.17
(1,829)	1:25:A:ARG:H	1:25:A:ARG:HG2	13	0.17
(1,829)	1:25:A:ARG:H	1:25:A:ARG:HG3	13	0.17
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG21	8	0.17
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG22	8	0.17
(1,815)	1:24:A:GLY:H	1:37:A:ILE:HG23	8	0.17
(1,777)	1:21:A:ILE:HG21	1:23:A:GLY:H	15	0.17
(1,777)	1:21:A:ILE:HG22	1:23:A:GLY:H	15	0.17
(1,777)	1:21:A:ILE:HG23	1:23:A:GLY:H	15	0.17
(1,764)	1:20:A:ALA:H	1:40:A:SER:HB2	20	0.17
(1,764)	1:20:A:ALA:H	1:40:A:SER:HB3	20	0.17
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	16	0.17
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	16	0.17
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	16	0.17
(1,612)	1:6:A:THR:HG21	1:87:A:ILE:H	14	0.17
(1,612)	1:6:A:THR:HG22	1:87:A:ILE:H	14	0.17
(1,612)	1:6:A:THR:HG23	1:87:A:ILE:H	14	0.17
(1,525)	1:88:A:THR:HG21	1:90:A:ARG:HA	13	0.17
(1,525)	1:88:A:THR:HG22	1:90:A:ARG:HA	13	0.17
(1,525)	1:88:A:THR:HG23	1:90:A:ARG:HA	13	0.17
(1,516)	1:60:A:MET:HA	1:88:A:THR:HG21	18	0.17
(1,516)	1:60:A:MET:HA	1:88:A:THR:HG22	18	0.17
(1,516)	1:60:A:MET:HA	1:88:A:THR:HG23	18	0.17
(1,467)	1:37:A:ILE:HD11	1:74:A:ALA:H	9	0.17
(1,467)	1:37:A:ILE:HD12	1:74:A:ALA:H	9	0.17
(1,467)	1:37:A:ILE:HD13	1:74:A:ALA:H	9	0.17
(1,459)	1:52:A:LEU:HB2	1:87:A:ILE:HD11	11	0.17
(1,459)	1:52:A:LEU:HB2	1:87:A:ILE:HD12	11	0.17
(1,459)	1:52:A:LEU:HB2	1:87:A:ILE:HD13	11	0.17
(1,459)	1:52:A:LEU:HB3	1:87:A:ILE:HD11	11	0.17
(1,459)	1:52:A:LEU:HB3	1:87:A:ILE:HD12	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,459)	1:52:A:LEU:HB3	1:87:A:ILE:HD13	11	0.17
(1,444)	1:21:A:ILE:HD11	1:74:A:ALA:H	6	0.17
(1,444)	1:21:A:ILE:HD12	1:74:A:ALA:H	6	0.17
(1,444)	1:21:A:ILE:HD13	1:74:A:ALA:H	6	0.17
(1,443)	1:21:A:ILE:HD11	1:75:A:VAL:H	16	0.17
(1,443)	1:21:A:ILE:HD12	1:75:A:VAL:H	16	0.17
(1,443)	1:21:A:ILE:HD13	1:75:A:VAL:H	16	0.17
(1,413)	1:21:A:ILE:HG21	1:38:A:VAL:H	2	0.17
(1,413)	1:21:A:ILE:HG22	1:38:A:VAL:H	2	0.17
(1,413)	1:21:A:ILE:HG23	1:38:A:VAL:H	2	0.17
(1,386)	1:61:A:VAL:HG11	1:87:A:ILE:HG12	7	0.17
(1,386)	1:61:A:VAL:HG11	1:87:A:ILE:HG13	7	0.17
(1,386)	1:61:A:VAL:HG12	1:87:A:ILE:HG12	7	0.17
(1,386)	1:61:A:VAL:HG12	1:87:A:ILE:HG13	7	0.17
(1,386)	1:61:A:VAL:HG13	1:87:A:ILE:HG12	7	0.17
(1,386)	1:61:A:VAL:HG13	1:87:A:ILE:HG13	7	0.17
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD2	4	0.17
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD3	4	0.17
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD2	4	0.17
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD3	4	0.17
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD2	4	0.17
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD3	4	0.17
(1,369)	1:60:A:MET:HB3	1:88:A:THR:HG21	20	0.17
(1,369)	1:60:A:MET:HB3	1:88:A:THR:HG22	20	0.17
(1,369)	1:60:A:MET:HB3	1:88:A:THR:HG23	20	0.17
(1,313)	1:52:A:LEU:HD11	1:89:A:ILE:HB	15	0.17
(1,313)	1:52:A:LEU:HD12	1:89:A:ILE:HB	15	0.17
(1,313)	1:52:A:LEU:HD13	1:89:A:ILE:HB	15	0.17
(1,294)	1:4:A:GLN:HB2	1:90:A:ARG:HG2	8	0.17
(1,294)	1:4:A:GLN:HB2	1:90:A:ARG:HG3	8	0.17
(1,294)	1:4:A:GLN:HB3	1:90:A:ARG:HG2	8	0.17
(1,294)	1:4:A:GLN:HB3	1:90:A:ARG:HG3	8	0.17
(1,282)	1:44:A:LYS:HD2	1:45:A:GLY:H	18	0.17
(1,282)	1:44:A:LYS:HD3	1:45:A:GLY:H	18	0.17
(1,268)	1:60:A:MET:HG2	1:88:A:THR:HG21	14	0.17
(1,268)	1:60:A:MET:HG2	1:88:A:THR:HG22	14	0.17
(1,268)	1:60:A:MET:HG2	1:88:A:THR:HG23	14	0.17
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE2	8	0.17
(1,186)	1:77:A:GLN:HG2	1:80:A:LYS:HE3	8	0.17
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE2	8	0.17
(1,186)	1:77:A:GLN:HG3	1:80:A:LYS:HE3	8	0.17
(1,136)	1:58:A:VAL:HG21	1:59:A:ALA:HA	19	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,136)	1:58:A:VAL:HG22	1:59:A:ALA:HA	19	0.17
(1,136)	1:58:A:VAL:HG23	1:59:A:ALA:HA	19	0.17
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD2	11	0.17
(1,104)	1:80:A:LYS:HA	1:80:A:LYS:HD3	11	0.17
(1,93)	1:44:A:LYS:HA	1:44:A:LYS:HD2	17	0.17
(1,93)	1:44:A:LYS:HA	1:44:A:LYS:HD3	17	0.17
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB1	10	0.17
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB2	10	0.17
(1,37)	1:42:A:VAL:HA	1:48:A:ALA:HB3	10	0.17
(1,1621)	1:61:A:VAL:HG11	1:77:A:GLN:H	19	0.16
(1,1621)	1:61:A:VAL:HG12	1:77:A:GLN:H	19	0.16
(1,1621)	1:61:A:VAL:HG13	1:77:A:GLN:H	19	0.16
(1,1621)	1:61:A:VAL:HG21	1:77:A:GLN:H	19	0.16
(1,1621)	1:61:A:VAL:HG22	1:77:A:GLN:H	19	0.16
(1,1621)	1:61:A:VAL:HG23	1:77:A:GLN:H	19	0.16
(1,1616)	1:61:A:VAL:HG11	1:64:A:VAL:H	5	0.16
(1,1616)	1:61:A:VAL:HG12	1:64:A:VAL:H	5	0.16
(1,1616)	1:61:A:VAL:HG13	1:64:A:VAL:H	5	0.16
(1,1616)	1:61:A:VAL:HG21	1:64:A:VAL:H	5	0.16
(1,1616)	1:61:A:VAL:HG22	1:64:A:VAL:H	5	0.16
(1,1616)	1:61:A:VAL:HG23	1:64:A:VAL:H	5	0.16
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG11	5	0.16
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG12	5	0.16
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG13	5	0.16
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG21	5	0.16
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG22	5	0.16
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG23	5	0.16
(1,1601)	1:52:A:LEU:HD11	1:87:A:ILE:H	12	0.16
(1,1601)	1:52:A:LEU:HD12	1:87:A:ILE:H	12	0.16
(1,1601)	1:52:A:LEU:HD13	1:87:A:ILE:H	12	0.16
(1,1601)	1:52:A:LEU:HD21	1:87:A:ILE:H	12	0.16
(1,1601)	1:52:A:LEU:HD22	1:87:A:ILE:H	12	0.16
(1,1601)	1:52:A:LEU:HD23	1:87:A:ILE:H	12	0.16
(1,1585)	1:42:A:VAL:HG11	1:49:A:GLU:HB2	6	0.16
(1,1585)	1:42:A:VAL:HG12	1:49:A:GLU:HB2	6	0.16
(1,1585)	1:42:A:VAL:HG13	1:49:A:GLU:HB2	6	0.16
(1,1585)	1:42:A:VAL:HG21	1:49:A:GLU:HB2	6	0.16
(1,1585)	1:42:A:VAL:HG22	1:49:A:GLU:HB2	6	0.16
(1,1585)	1:42:A:VAL:HG23	1:49:A:GLU:HB2	6	0.16
(1,1584)	1:42:A:VAL:HG11	1:49:A:GLU:HA	6	0.16
(1,1584)	1:42:A:VAL:HG12	1:49:A:GLU:HA	6	0.16
(1,1584)	1:42:A:VAL:HG13	1:49:A:GLU:HA	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1584)	1:42:A:VAL:HG21	1:49:A:GLU:HA	6	0.16
(1,1584)	1:42:A:VAL:HG22	1:49:A:GLU:HA	6	0.16
(1,1584)	1:42:A:VAL:HG23	1:49:A:GLU:HA	6	0.16
(1,1571)	1:38:A:VAL:HG11	1:40:A:SER:HB2	12	0.16
(1,1571)	1:38:A:VAL:HG11	1:40:A:SER:HB3	12	0.16
(1,1571)	1:38:A:VAL:HG12	1:40:A:SER:HB2	12	0.16
(1,1571)	1:38:A:VAL:HG12	1:40:A:SER:HB3	12	0.16
(1,1571)	1:38:A:VAL:HG13	1:40:A:SER:HB2	12	0.16
(1,1571)	1:38:A:VAL:HG13	1:40:A:SER:HB3	12	0.16
(1,1571)	1:38:A:VAL:HG21	1:40:A:SER:HB2	12	0.16
(1,1571)	1:38:A:VAL:HG21	1:40:A:SER:HB3	12	0.16
(1,1571)	1:38:A:VAL:HG22	1:40:A:SER:HB2	12	0.16
(1,1571)	1:38:A:VAL:HG22	1:40:A:SER:HB3	12	0.16
(1,1571)	1:38:A:VAL:HG23	1:40:A:SER:HB2	12	0.16
(1,1571)	1:38:A:VAL:HG23	1:40:A:SER:HB3	12	0.16
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD11	5	0.16
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD12	5	0.16
(1,1551)	1:21:A:ILE:HG12	1:78:A:LEU:HD13	5	0.16
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD11	5	0.16
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD12	5	0.16
(1,1551)	1:21:A:ILE:HG13	1:78:A:LEU:HD13	5	0.16
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB2	4	0.16
(1,1509)	1:9:A:LEU:H	1:84:A:ASN:HB3	4	0.16
(1,1493)	1:2:A:TRP:HB2	1:92:A:LYS:H	11	0.16
(1,1493)	1:2:A:TRP:HB3	1:92:A:LYS:H	11	0.16
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE2	17	0.16
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE3	17	0.16
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG2	20	0.16
(1,1397)	1:83:A:LYS:H	1:83:A:LYS:HG3	20	0.16
(1,1254)	1:69:A:VAL:HG21	1:73:A:PHE:H	12	0.16
(1,1254)	1:69:A:VAL:HG22	1:73:A:PHE:H	12	0.16
(1,1254)	1:69:A:VAL:HG23	1:73:A:PHE:H	12	0.16
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB2	19	0.16
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB3	19	0.16
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB2	14	0.16
(1,945)	1:39:A:ILE:H	1:54:A:GLU:HB3	14	0.16
(1,939)	1:39:A:ILE:H	1:39:A:ILE:HD11	16	0.16
(1,939)	1:39:A:ILE:H	1:39:A:ILE:HD12	16	0.16
(1,939)	1:39:A:ILE:H	1:39:A:ILE:HD13	16	0.16
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	18	0.16
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	18	0.16
(1,829)	1:25:A:ARG:H	1:25:A:ARG:HG2	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,829)	1:25:A:ARG:H	1:25:A:ARG:HG3	7	0.16
(1,768)	1:19:A:ILE:HG21	1:20:A:ALA:H	19	0.16
(1,768)	1:19:A:ILE:HG22	1:20:A:ALA:H	19	0.16
(1,768)	1:19:A:ILE:HG23	1:20:A:ALA:H	19	0.16
(1,733)	1:18:A:GLY:H	1:48:A:ALA:HB1	15	0.16
(1,733)	1:18:A:GLY:H	1:48:A:ALA:HB2	15	0.16
(1,733)	1:18:A:GLY:H	1:48:A:ALA:HB3	15	0.16
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD11	14	0.16
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD12	14	0.16
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD13	14	0.16
(1,516)	1:60:A:MET:HA	1:88:A:THR:HG21	19	0.16
(1,516)	1:60:A:MET:HA	1:88:A:THR:HG22	19	0.16
(1,516)	1:60:A:MET:HA	1:88:A:THR:HG23	19	0.16
(1,481)	1:6:A:THR:HA	1:89:A:ILE:HD11	19	0.16
(1,481)	1:6:A:THR:HA	1:89:A:ILE:HD12	19	0.16
(1,481)	1:6:A:THR:HA	1:89:A:ILE:HD13	19	0.16
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD11	13	0.16
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD12	13	0.16
(1,464)	1:19:A:ILE:HB	1:39:A:ILE:HD13	13	0.16
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG2	9	0.16
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG3	9	0.16
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG2	9	0.16
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG3	9	0.16
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG2	9	0.16
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG3	9	0.16
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG21	16	0.16
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG22	16	0.16
(1,349)	1:25:A:ARG:HB2	1:35:A:THR:HG23	16	0.16
(1,342)	1:75:A:VAL:HB	1:78:A:LEU:HD21	9	0.16
(1,342)	1:75:A:VAL:HB	1:78:A:LEU:HD22	9	0.16
(1,342)	1:75:A:VAL:HB	1:78:A:LEU:HD23	9	0.16
(1,311)	1:51:A:GLN:HB2	1:52:A:LEU:HD11	4	0.16
(1,311)	1:51:A:GLN:HB2	1:52:A:LEU:HD12	4	0.16
(1,311)	1:51:A:GLN:HB2	1:52:A:LEU:HD13	4	0.16
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG21	13	0.16
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG22	13	0.16
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG23	13	0.16
(1,136)	1:58:A:VAL:HG21	1:59:A:ALA:HA	12	0.16
(1,136)	1:58:A:VAL:HG22	1:59:A:ALA:HA	12	0.16
(1,136)	1:58:A:VAL:HG23	1:59:A:ALA:HA	12	0.16
(1,12)	1:75:A:VAL:HA	1:79:A:ARG:HG2	20	0.16
(1,12)	1:75:A:VAL:HA	1:79:A:ARG:HG3	20	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1622)	1:61:A:VAL:HG11	1:77:A:GLN:HA	19	0.15
(1,1622)	1:61:A:VAL:HG12	1:77:A:GLN:HA	19	0.15
(1,1622)	1:61:A:VAL:HG13	1:77:A:GLN:HA	19	0.15
(1,1622)	1:61:A:VAL:HG21	1:77:A:GLN:HA	19	0.15
(1,1622)	1:61:A:VAL:HG22	1:77:A:GLN:HA	19	0.15
(1,1622)	1:61:A:VAL:HG23	1:77:A:GLN:HA	19	0.15
(1,1616)	1:61:A:VAL:HG11	1:64:A:VAL:H	19	0.15
(1,1616)	1:61:A:VAL:HG12	1:64:A:VAL:H	19	0.15
(1,1616)	1:61:A:VAL:HG13	1:64:A:VAL:H	19	0.15
(1,1616)	1:61:A:VAL:HG21	1:64:A:VAL:H	19	0.15
(1,1616)	1:61:A:VAL:HG22	1:64:A:VAL:H	19	0.15
(1,1616)	1:61:A:VAL:HG23	1:64:A:VAL:H	19	0.15
(1,1601)	1:52:A:LEU:HD11	1:87:A:ILE:H	4	0.15
(1,1601)	1:52:A:LEU:HD12	1:87:A:ILE:H	4	0.15
(1,1601)	1:52:A:LEU:HD13	1:87:A:ILE:H	4	0.15
(1,1601)	1:52:A:LEU:HD21	1:87:A:ILE:H	4	0.15
(1,1601)	1:52:A:LEU:HD22	1:87:A:ILE:H	4	0.15
(1,1601)	1:52:A:LEU:HD23	1:87:A:ILE:H	4	0.15
(1,1549)	1:21:A:ILE:HG12	1:75:A:VAL:HB	6	0.15
(1,1549)	1:21:A:ILE:HG13	1:75:A:VAL:HB	6	0.15
(1,1546)	1:21:A:ILE:H	1:21:A:ILE:HG12	7	0.15
(1,1546)	1:21:A:ILE:H	1:21:A:ILE:HG13	7	0.15
(1,1504)	1:7:A:VAL:HG11	1:51:A:GLN:HA	17	0.15
(1,1504)	1:7:A:VAL:HG12	1:51:A:GLN:HA	17	0.15
(1,1504)	1:7:A:VAL:HG13	1:51:A:GLN:HA	17	0.15
(1,1504)	1:7:A:VAL:HG21	1:51:A:GLN:HA	17	0.15
(1,1504)	1:7:A:VAL:HG22	1:51:A:GLN:HA	17	0.15
(1,1504)	1:7:A:VAL:HG23	1:51:A:GLN:HA	17	0.15
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD11	4	0.15
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD12	4	0.15
(1,1417)	1:86:A:LYS:H	1:87:A:ILE:HD13	4	0.15
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	3	0.15
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	3	0.15
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD2	1	0.15
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD3	1	0.15
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG2	9	0.15
(1,1394)	1:82:A:GLY:H	1:83:A:LYS:HG3	9	0.15
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB1	8	0.15
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB2	8	0.15
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB3	8	0.15
(1,1111)	1:57:A:ARG:H	1:91:A:ARG:HG2	20	0.15
(1,1111)	1:57:A:ARG:H	1:91:A:ARG:HG3	20	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB2	11	0.15
(1,961)	1:40:A:SER:H	1:54:A:GLU:HB3	11	0.15
(1,954)	1:39:A:ILE:HG21	1:41:A:ASP:H	13	0.15
(1,954)	1:39:A:ILE:HG22	1:41:A:ASP:H	13	0.15
(1,954)	1:39:A:ILE:HG23	1:41:A:ASP:H	13	0.15
(1,937)	1:39:A:ILE:HD11	1:58:A:VAL:H	6	0.15
(1,937)	1:39:A:ILE:HD12	1:58:A:VAL:H	6	0.15
(1,937)	1:39:A:ILE:HD13	1:58:A:VAL:H	6	0.15
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG12	16	0.15
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG13	16	0.15
(1,768)	1:19:A:ILE:HG21	1:20:A:ALA:H	7	0.15
(1,768)	1:19:A:ILE:HG22	1:20:A:ALA:H	7	0.15
(1,768)	1:19:A:ILE:HG23	1:20:A:ALA:H	7	0.15
(1,614)	1:6:A:THR:HG21	1:89:A:ILE:H	20	0.15
(1,614)	1:6:A:THR:HG22	1:89:A:ILE:H	20	0.15
(1,614)	1:6:A:THR:HG23	1:89:A:ILE:H	20	0.15
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD11	19	0.15
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD12	19	0.15
(1,592)	1:5:A:HIS:H	1:89:A:ILE:HD13	19	0.15
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG2	4	0.15
(1,549)	1:2:A:TRP:H	1:3:A:GLU:HG3	4	0.15
(1,482)	1:88:A:THR:HA	1:89:A:ILE:HG21	14	0.15
(1,482)	1:88:A:THR:HA	1:89:A:ILE:HG22	14	0.15
(1,482)	1:88:A:THR:HA	1:89:A:ILE:HG23	14	0.15
(1,445)	1:21:A:ILE:HD11	1:37:A:ILE:HB	19	0.15
(1,445)	1:21:A:ILE:HD12	1:37:A:ILE:HB	19	0.15
(1,445)	1:21:A:ILE:HD13	1:37:A:ILE:HB	19	0.15
(1,427)	1:21:A:ILE:HG21	1:37:A:ILE:HB	12	0.15
(1,427)	1:21:A:ILE:HG22	1:37:A:ILE:HB	12	0.15
(1,427)	1:21:A:ILE:HG23	1:37:A:ILE:HB	12	0.15
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG2	14	0.15
(1,426)	1:69:A:VAL:HG21	1:70:A:GLU:HG3	14	0.15
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG2	14	0.15
(1,426)	1:69:A:VAL:HG22	1:70:A:GLU:HG3	14	0.15
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG2	14	0.15
(1,426)	1:69:A:VAL:HG23	1:70:A:GLU:HG3	14	0.15
(1,375)	1:42:A:VAL:HG11	1:50:A:GLY:H	8	0.15
(1,375)	1:42:A:VAL:HG12	1:50:A:GLY:H	8	0.15
(1,375)	1:42:A:VAL:HG13	1:50:A:GLY:H	8	0.15
(1,375)	1:42:A:VAL:HG11	1:50:A:GLY:H	17	0.15
(1,375)	1:42:A:VAL:HG12	1:50:A:GLY:H	17	0.15
(1,375)	1:42:A:VAL:HG13	1:50:A:GLY:H	17	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,332)	1:75:A:VAL:HB	1:78:A:LEU:HD11	9	0.15
(1,332)	1:75:A:VAL:HB	1:78:A:LEU:HD12	9	0.15
(1,332)	1:75:A:VAL:HB	1:78:A:LEU:HD13	9	0.15
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG21	10	0.15
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG22	10	0.15
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG23	10	0.15
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD21	7	0.15
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD22	7	0.15
(1,61)	1:17:A:PHE:HA	1:78:A:LEU:HD23	7	0.15
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG21	15	0.15
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG22	15	0.15
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG23	15	0.15
(1,1659)	1:74:A:ALA:H	1:75:A:VAL:HG11	9	0.14
(1,1659)	1:74:A:ALA:H	1:75:A:VAL:HG12	9	0.14
(1,1659)	1:74:A:ALA:H	1:75:A:VAL:HG13	9	0.14
(1,1659)	1:74:A:ALA:H	1:75:A:VAL:HG21	9	0.14
(1,1659)	1:74:A:ALA:H	1:75:A:VAL:HG22	9	0.14
(1,1659)	1:74:A:ALA:H	1:75:A:VAL:HG23	9	0.14
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	4	0.14
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	4	0.14
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	4	0.14
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	4	0.14
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	4	0.14
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	4	0.14
(1,1584)	1:42:A:VAL:HG11	1:49:A:GLU:HA	8	0.14
(1,1584)	1:42:A:VAL:HG12	1:49:A:GLU:HA	8	0.14
(1,1584)	1:42:A:VAL:HG13	1:49:A:GLU:HA	8	0.14
(1,1584)	1:42:A:VAL:HG21	1:49:A:GLU:HA	8	0.14
(1,1584)	1:42:A:VAL:HG22	1:49:A:GLU:HA	8	0.14
(1,1584)	1:42:A:VAL:HG23	1:49:A:GLU:HA	8	0.14
(1,1568)	1:38:A:VAL:HG11	1:39:A:ILE:H	7	0.14
(1,1568)	1:38:A:VAL:HG12	1:39:A:ILE:H	7	0.14
(1,1568)	1:38:A:VAL:HG13	1:39:A:ILE:H	7	0.14
(1,1568)	1:38:A:VAL:HG21	1:39:A:ILE:H	7	0.14
(1,1568)	1:38:A:VAL:HG22	1:39:A:ILE:H	7	0.14
(1,1568)	1:38:A:VAL:HG23	1:39:A:ILE:H	7	0.14
(1,1510)	1:10:A:HIS:HB2	1:12:A:ALA:H	7	0.14
(1,1510)	1:10:A:HIS:HB3	1:12:A:ALA:H	7	0.14
(1,1358)	1:79:A:ARG:HG2	1:80:A:LYS:H	18	0.14
(1,1358)	1:79:A:ARG:HG3	1:80:A:LYS:H	18	0.14
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD2	18	0.14
(1,1198)	1:62:A:ASN:H	1:86:A:LYS:HD3	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1188)	1:77:A:GLN:H	1:78:A:LEU:HD21	16	0.14
(1,1188)	1:77:A:GLN:H	1:78:A:LEU:HD22	16	0.14
(1,1188)	1:77:A:GLN:H	1:78:A:LEU:HD23	16	0.14
(1,1180)	1:60:A:MET:HE1	1:61:A:VAL:H	1	0.14
(1,1180)	1:60:A:MET:HE2	1:61:A:VAL:H	1	0.14
(1,1180)	1:60:A:MET:HE3	1:61:A:VAL:H	1	0.14
(1,1108)	1:57:A:ARG:H	1:57:A:ARG:HD2	9	0.14
(1,1108)	1:57:A:ARG:H	1:57:A:ARG:HD3	9	0.14
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB2	15	0.14
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB3	15	0.14
(1,1025)	1:46:A:GLY:H	1:48:A:ALA:HB1	18	0.14
(1,1025)	1:46:A:GLY:H	1:48:A:ALA:HB2	18	0.14
(1,1025)	1:46:A:GLY:H	1:48:A:ALA:HB3	18	0.14
(1,954)	1:39:A:ILE:HG21	1:41:A:ASP:H	18	0.14
(1,954)	1:39:A:ILE:HG22	1:41:A:ASP:H	18	0.14
(1,954)	1:39:A:ILE:HG23	1:41:A:ASP:H	18	0.14
(1,925)	1:37:A:ILE:HG12	1:70:A:GLU:H	15	0.14
(1,925)	1:37:A:ILE:HG13	1:70:A:GLU:H	15	0.14
(1,918)	1:66:A:MET:H	1:69:A:VAL:HG11	6	0.14
(1,918)	1:66:A:MET:H	1:69:A:VAL:HG12	6	0.14
(1,918)	1:66:A:MET:H	1:69:A:VAL:HG13	6	0.14
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG12	9	0.14
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG13	9	0.14
(1,829)	1:25:A:ARG:H	1:25:A:ARG:HG2	8	0.14
(1,829)	1:25:A:ARG:H	1:25:A:ARG:HG3	8	0.14
(1,829)	1:25:A:ARG:H	1:25:A:ARG:HG2	20	0.14
(1,829)	1:25:A:ARG:H	1:25:A:ARG:HG3	20	0.14
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB1	15	0.14
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB2	15	0.14
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB3	15	0.14
(1,643)	1:8:A:THR:HG21	1:84:A:ASN:H	19	0.14
(1,643)	1:8:A:THR:HG22	1:84:A:ASN:H	19	0.14
(1,643)	1:8:A:THR:HG23	1:84:A:ASN:H	19	0.14
(1,525)	1:88:A:THR:HG21	1:90:A:ARG:HA	17	0.14
(1,525)	1:88:A:THR:HG22	1:90:A:ARG:HA	17	0.14
(1,525)	1:88:A:THR:HG23	1:90:A:ARG:HA	17	0.14
(1,506)	1:39:A:ILE:HD11	1:89:A:ILE:HA	7	0.14
(1,506)	1:39:A:ILE:HD12	1:89:A:ILE:HA	7	0.14
(1,506)	1:39:A:ILE:HD13	1:89:A:ILE:HA	7	0.14
(1,466)	1:37:A:ILE:HD11	1:38:A:VAL:H	3	0.14
(1,466)	1:37:A:ILE:HD12	1:38:A:VAL:H	3	0.14
(1,466)	1:37:A:ILE:HD13	1:38:A:VAL:H	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	19	0.14
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	19	0.14
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	19	0.14
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	19	0.14
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	19	0.14
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	19	0.14
(1,442)	1:89:A:ILE:HD11	1:91:A:ARG:HB3	5	0.14
(1,442)	1:89:A:ILE:HD12	1:91:A:ARG:HB3	5	0.14
(1,442)	1:89:A:ILE:HD13	1:91:A:ARG:HB3	5	0.14
(1,421)	1:39:A:ILE:HG21	1:56:A:ASP:H	20	0.14
(1,421)	1:39:A:ILE:HG22	1:56:A:ASP:H	20	0.14
(1,421)	1:39:A:ILE:HG23	1:56:A:ASP:H	20	0.14
(1,375)	1:42:A:VAL:HG11	1:50:A:GLY:H	9	0.14
(1,375)	1:42:A:VAL:HG12	1:50:A:GLY:H	9	0.14
(1,375)	1:42:A:VAL:HG13	1:50:A:GLY:H	9	0.14
(1,356)	1:19:A:ILE:HD11	1:20:A:ALA:HB1	14	0.14
(1,356)	1:19:A:ILE:HD11	1:20:A:ALA:HB2	14	0.14
(1,356)	1:19:A:ILE:HD11	1:20:A:ALA:HB3	14	0.14
(1,356)	1:19:A:ILE:HD12	1:20:A:ALA:HB1	14	0.14
(1,356)	1:19:A:ILE:HD12	1:20:A:ALA:HB2	14	0.14
(1,356)	1:19:A:ILE:HD12	1:20:A:ALA:HB3	14	0.14
(1,356)	1:19:A:ILE:HD13	1:20:A:ALA:HB1	14	0.14
(1,356)	1:19:A:ILE:HD13	1:20:A:ALA:HB2	14	0.14
(1,356)	1:19:A:ILE:HD13	1:20:A:ALA:HB3	14	0.14
(1,332)	1:75:A:VAL:HB	1:78:A:LEU:HD11	8	0.14
(1,332)	1:75:A:VAL:HB	1:78:A:LEU:HD12	8	0.14
(1,332)	1:75:A:VAL:HB	1:78:A:LEU:HD13	8	0.14
(1,294)	1:4:A:GLN:HB2	1:90:A:ARG:HG2	7	0.14
(1,294)	1:4:A:GLN:HB2	1:90:A:ARG:HG3	7	0.14
(1,294)	1:4:A:GLN:HB3	1:90:A:ARG:HG2	7	0.14
(1,294)	1:4:A:GLN:HB3	1:90:A:ARG:HG3	7	0.14
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD2	14	0.14
(1,288)	1:76:A:GLN:HG3	1:80:A:LYS:HD3	14	0.14
(1,178)	1:79:A:ARG:HD2	1:80:A:LYS:HA	8	0.14
(1,178)	1:79:A:ARG:HD3	1:80:A:LYS:HA	8	0.14
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG2	2	0.14
(1,175)	1:79:A:ARG:HD2	1:80:A:LYS:HG3	2	0.14
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG2	2	0.14
(1,175)	1:79:A:ARG:HD3	1:80:A:LYS:HG3	2	0.14
(1,72)	1:83:A:LYS:HA	1:83:A:LYS:HD2	4	0.14
(1,72)	1:83:A:LYS:HA	1:83:A:LYS:HD3	4	0.14
(1,1585)	1:42:A:VAL:HG11	1:49:A:GLU:HB2	16	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1585)	1:42:A:VAL:HG12	1:49:A:GLU:HB2	16	0.13
(1,1585)	1:42:A:VAL:HG13	1:49:A:GLU:HB2	16	0.13
(1,1585)	1:42:A:VAL:HG21	1:49:A:GLU:HB2	16	0.13
(1,1585)	1:42:A:VAL:HG22	1:49:A:GLU:HB2	16	0.13
(1,1585)	1:42:A:VAL:HG23	1:49:A:GLU:HB2	16	0.13
(1,1582)	1:42:A:VAL:HG11	1:48:A:ALA:HB1	12	0.13
(1,1582)	1:42:A:VAL:HG11	1:48:A:ALA:HB2	12	0.13
(1,1582)	1:42:A:VAL:HG11	1:48:A:ALA:HB3	12	0.13
(1,1582)	1:42:A:VAL:HG12	1:48:A:ALA:HB1	12	0.13
(1,1582)	1:42:A:VAL:HG12	1:48:A:ALA:HB2	12	0.13
(1,1582)	1:42:A:VAL:HG12	1:48:A:ALA:HB3	12	0.13
(1,1582)	1:42:A:VAL:HG13	1:48:A:ALA:HB1	12	0.13
(1,1582)	1:42:A:VAL:HG13	1:48:A:ALA:HB2	12	0.13
(1,1582)	1:42:A:VAL:HG13	1:48:A:ALA:HB3	12	0.13
(1,1582)	1:42:A:VAL:HG21	1:48:A:ALA:HB1	12	0.13
(1,1582)	1:42:A:VAL:HG21	1:48:A:ALA:HB2	12	0.13
(1,1582)	1:42:A:VAL:HG21	1:48:A:ALA:HB3	12	0.13
(1,1582)	1:42:A:VAL:HG22	1:48:A:ALA:HB1	12	0.13
(1,1582)	1:42:A:VAL:HG22	1:48:A:ALA:HB2	12	0.13
(1,1582)	1:42:A:VAL:HG22	1:48:A:ALA:HB3	12	0.13
(1,1582)	1:42:A:VAL:HG23	1:48:A:ALA:HB1	12	0.13
(1,1582)	1:42:A:VAL:HG23	1:48:A:ALA:HB2	12	0.13
(1,1582)	1:42:A:VAL:HG23	1:48:A:ALA:HB3	12	0.13
(1,1571)	1:38:A:VAL:HG11	1:40:A:SER:HB2	1	0.13
(1,1571)	1:38:A:VAL:HG11	1:40:A:SER:HB3	1	0.13
(1,1571)	1:38:A:VAL:HG12	1:40:A:SER:HB2	1	0.13
(1,1571)	1:38:A:VAL:HG12	1:40:A:SER:HB3	1	0.13
(1,1571)	1:38:A:VAL:HG13	1:40:A:SER:HB2	1	0.13
(1,1571)	1:38:A:VAL:HG13	1:40:A:SER:HB3	1	0.13
(1,1571)	1:38:A:VAL:HG21	1:40:A:SER:HB2	1	0.13
(1,1571)	1:38:A:VAL:HG21	1:40:A:SER:HB3	1	0.13
(1,1571)	1:38:A:VAL:HG22	1:40:A:SER:HB2	1	0.13
(1,1571)	1:38:A:VAL:HG22	1:40:A:SER:HB3	1	0.13
(1,1571)	1:38:A:VAL:HG23	1:40:A:SER:HB2	1	0.13
(1,1571)	1:38:A:VAL:HG23	1:40:A:SER:HB3	1	0.13
(1,1565)	1:36:A:SER:HB2	1:68:A:ASN:H	1	0.13
(1,1565)	1:36:A:SER:HB3	1:68:A:ASN:H	1	0.13
(1,1546)	1:21:A:ILE:H	1:21:A:ILE:HG12	17	0.13
(1,1546)	1:21:A:ILE:H	1:21:A:ILE:HG13	17	0.13
(1,1501)	1:7:A:VAL:HG11	1:8:A:THR:H	4	0.13
(1,1501)	1:7:A:VAL:HG12	1:8:A:THR:H	4	0.13
(1,1501)	1:7:A:VAL:HG13	1:8:A:THR:H	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1501)	1:7:A:VAL:HG21	1:8:A:THR:H	4	0.13
(1,1501)	1:7:A:VAL:HG22	1:8:A:THR:H	4	0.13
(1,1501)	1:7:A:VAL:HG23	1:8:A:THR:H	4	0.13
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	6	0.13
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	6	0.13
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	6	0.13
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	6	0.13
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	6	0.13
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	6	0.13
(1,1484)	1:60:A:MET:HE1	1:64:A:VAL:H	6	0.13
(1,1484)	1:60:A:MET:HE2	1:64:A:VAL:H	6	0.13
(1,1484)	1:60:A:MET:HE3	1:64:A:VAL:H	6	0.13
(1,1423)	1:86:A:LYS:HE2	1:87:A:ILE:H	11	0.13
(1,1423)	1:86:A:LYS:HE3	1:87:A:ILE:H	11	0.13
(1,1363)	1:79:A:ARG:H	1:79:A:ARG:HD2	8	0.13
(1,1363)	1:79:A:ARG:H	1:79:A:ARG:HD3	8	0.13
(1,1255)	1:69:A:VAL:HG21	1:74:A:ALA:H	20	0.13
(1,1255)	1:69:A:VAL:HG22	1:74:A:ALA:H	20	0.13
(1,1255)	1:69:A:VAL:HG23	1:74:A:ALA:H	20	0.13
(1,1252)	1:69:A:VAL:HG21	1:70:A:GLU:H	6	0.13
(1,1252)	1:69:A:VAL:HG22	1:70:A:GLU:H	6	0.13
(1,1252)	1:69:A:VAL:HG23	1:70:A:GLU:H	6	0.13
(1,1187)	1:61:A:VAL:HG21	1:64:A:VAL:H	14	0.13
(1,1187)	1:61:A:VAL:HG22	1:64:A:VAL:H	14	0.13
(1,1187)	1:61:A:VAL:HG23	1:64:A:VAL:H	14	0.13
(1,1126)	1:58:A:VAL:HG11	1:59:A:ALA:H	4	0.13
(1,1126)	1:58:A:VAL:HG12	1:59:A:ALA:H	4	0.13
(1,1126)	1:58:A:VAL:HG13	1:59:A:ALA:H	4	0.13
(1,980)	1:9:A:LEU:HD11	1:52:A:LEU:H	8	0.13
(1,980)	1:9:A:LEU:HD12	1:52:A:LEU:H	8	0.13
(1,980)	1:9:A:LEU:HD13	1:52:A:LEU:H	8	0.13
(1,980)	1:9:A:LEU:HD21	1:52:A:LEU:H	8	0.13
(1,980)	1:9:A:LEU:HD22	1:52:A:LEU:H	8	0.13
(1,980)	1:9:A:LEU:HD23	1:52:A:LEU:H	8	0.13
(1,829)	1:25:A:ARG:H	1:25:A:ARG:HG2	6	0.13
(1,829)	1:25:A:ARG:H	1:25:A:ARG:HG3	6	0.13
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD11	18	0.13
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD12	18	0.13
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD13	18	0.13
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD11	19	0.13
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD12	19	0.13
(1,816)	1:24:A:GLY:H	1:37:A:ILE:HD13	19	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,712)	1:15:A:PHE:H	1:43:A:LEU:HD11	5	0.13
(1,712)	1:15:A:PHE:H	1:43:A:LEU:HD12	5	0.13
(1,712)	1:15:A:PHE:H	1:43:A:LEU:HD13	5	0.13
(1,708)	1:12:A:ALA:HB1	1:16:A:GLY:H	6	0.13
(1,708)	1:12:A:ALA:HB2	1:16:A:GLY:H	6	0.13
(1,708)	1:12:A:ALA:HB3	1:16:A:GLY:H	6	0.13
(1,525)	1:88:A:THR:HG21	1:90:A:ARG:HA	14	0.13
(1,525)	1:88:A:THR:HG22	1:90:A:ARG:HA	14	0.13
(1,525)	1:88:A:THR:HG23	1:90:A:ARG:HA	14	0.13
(1,427)	1:21:A:ILE:HG21	1:37:A:ILE:HB	8	0.13
(1,427)	1:21:A:ILE:HG22	1:37:A:ILE:HB	8	0.13
(1,427)	1:21:A:ILE:HG23	1:37:A:ILE:HB	8	0.13
(1,398)	1:9:A:LEU:HB3	1:85:A:ALA:HB1	10	0.13
(1,398)	1:9:A:LEU:HB3	1:85:A:ALA:HB2	10	0.13
(1,398)	1:9:A:LEU:HB3	1:85:A:ALA:HB3	10	0.13
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG11	13	0.13
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG12	13	0.13
(1,359)	1:39:A:ILE:H	1:58:A:VAL:HG13	13	0.13
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG2	14	0.13
(1,354)	1:58:A:VAL:HG21	1:66:A:MET:HG3	14	0.13
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG2	14	0.13
(1,354)	1:58:A:VAL:HG22	1:66:A:MET:HG3	14	0.13
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG2	14	0.13
(1,354)	1:58:A:VAL:HG23	1:66:A:MET:HG3	14	0.13
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB1	9	0.13
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB2	9	0.13
(1,340)	1:43:A:LEU:HD21	1:48:A:ALA:HB3	9	0.13
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB1	9	0.13
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB2	9	0.13
(1,340)	1:43:A:LEU:HD22	1:48:A:ALA:HB3	9	0.13
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB1	9	0.13
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB2	9	0.13
(1,340)	1:43:A:LEU:HD23	1:48:A:ALA:HB3	9	0.13
(1,313)	1:52:A:LEU:HD11	1:89:A:ILE:HB	13	0.13
(1,313)	1:52:A:LEU:HD12	1:89:A:ILE:HB	13	0.13
(1,313)	1:52:A:LEU:HD13	1:89:A:ILE:HB	13	0.13
(1,208)	1:39:A:ILE:HD11	1:56:A:ASP:HB3	2	0.13
(1,208)	1:39:A:ILE:HD12	1:56:A:ASP:HB3	2	0.13
(1,208)	1:39:A:ILE:HD13	1:56:A:ASP:HB3	2	0.13
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE2	12	0.13
(1,184)	1:77:A:GLN:HA	1:80:A:LYS:HE3	12	0.13
(1,64)	1:21:A:ILE:HD11	1:39:A:ILE:HA	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,64)	1:21:A:ILE:HD12	1:39:A:ILE:HA	11	0.13
(1,64)	1:21:A:ILE:HD13	1:39:A:ILE:HA	11	0.13
(1,1683)	1:92:A:LYS:HD2	1:93:A:LYS:H	19	0.12
(1,1683)	1:92:A:LYS:HD3	1:93:A:LYS:H	19	0.12
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG11	6	0.12
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG12	6	0.12
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG13	6	0.12
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG21	6	0.12
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG22	6	0.12
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG23	6	0.12
(1,1624)	1:61:A:VAL:HG11	1:78:A:LEU:HA	3	0.12
(1,1624)	1:61:A:VAL:HG12	1:78:A:LEU:HA	3	0.12
(1,1624)	1:61:A:VAL:HG13	1:78:A:LEU:HA	3	0.12
(1,1624)	1:61:A:VAL:HG21	1:78:A:LEU:HA	3	0.12
(1,1624)	1:61:A:VAL:HG22	1:78:A:LEU:HA	3	0.12
(1,1624)	1:61:A:VAL:HG23	1:78:A:LEU:HA	3	0.12
(1,1616)	1:61:A:VAL:HG11	1:64:A:VAL:H	14	0.12
(1,1616)	1:61:A:VAL:HG12	1:64:A:VAL:H	14	0.12
(1,1616)	1:61:A:VAL:HG13	1:64:A:VAL:H	14	0.12
(1,1616)	1:61:A:VAL:HG21	1:64:A:VAL:H	14	0.12
(1,1616)	1:61:A:VAL:HG22	1:64:A:VAL:H	14	0.12
(1,1616)	1:61:A:VAL:HG23	1:64:A:VAL:H	14	0.12
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG11	6	0.12
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG12	6	0.12
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG13	6	0.12
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG21	6	0.12
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG22	6	0.12
(1,1608)	1:60:A:MET:HG2	1:64:A:VAL:HG23	6	0.12
(1,1601)	1:52:A:LEU:HD11	1:87:A:ILE:H	11	0.12
(1,1601)	1:52:A:LEU:HD12	1:87:A:ILE:H	11	0.12
(1,1601)	1:52:A:LEU:HD13	1:87:A:ILE:H	11	0.12
(1,1601)	1:52:A:LEU:HD21	1:87:A:ILE:H	11	0.12
(1,1601)	1:52:A:LEU:HD22	1:87:A:ILE:H	11	0.12
(1,1601)	1:52:A:LEU:HD23	1:87:A:ILE:H	11	0.12
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	11	0.12
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	11	0.12
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	11	0.12
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	11	0.12
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	11	0.12
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	11	0.12
(1,1586)	1:42:A:VAL:HG11	1:49:A:GLU:HB3	11	0.12
(1,1586)	1:42:A:VAL:HG12	1:49:A:GLU:HB3	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1586)	1:42:A:VAL:HG13	1:49:A:GLU:HB3	11	0.12
(1,1586)	1:42:A:VAL:HG21	1:49:A:GLU:HB3	11	0.12
(1,1586)	1:42:A:VAL:HG22	1:49:A:GLU:HB3	11	0.12
(1,1586)	1:42:A:VAL:HG23	1:49:A:GLU:HB3	11	0.12
(1,1581)	1:42:A:VAL:HG11	1:45:A:GLY:H	12	0.12
(1,1581)	1:42:A:VAL:HG12	1:45:A:GLY:H	12	0.12
(1,1581)	1:42:A:VAL:HG13	1:45:A:GLY:H	12	0.12
(1,1581)	1:42:A:VAL:HG21	1:45:A:GLY:H	12	0.12
(1,1581)	1:42:A:VAL:HG22	1:45:A:GLY:H	12	0.12
(1,1581)	1:42:A:VAL:HG23	1:45:A:GLY:H	12	0.12
(1,1565)	1:36:A:SER:HB2	1:68:A:ASN:H	3	0.12
(1,1565)	1:36:A:SER:HB3	1:68:A:ASN:H	3	0.12
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG11	10	0.12
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG12	10	0.12
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG13	10	0.12
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG21	10	0.12
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG22	10	0.12
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG23	10	0.12
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG11	10	0.12
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG12	10	0.12
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG13	10	0.12
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG21	10	0.12
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG22	10	0.12
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG23	10	0.12
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	13	0.12
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	13	0.12
(1,1405)	1:83:A:LYS:HG2	1:84:A:ASN:H	18	0.12
(1,1405)	1:83:A:LYS:HG3	1:84:A:ASN:H	18	0.12
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD2	4	0.12
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD3	4	0.12
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD2	6	0.12
(1,1398)	1:83:A:LYS:H	1:83:A:LYS:HD3	6	0.12
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB1	16	0.12
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB2	16	0.12
(1,1379)	1:80:A:LYS:H	1:85:A:ALA:HB3	16	0.12
(1,1372)	1:79:A:ARG:HD2	1:80:A:LYS:H	11	0.12
(1,1372)	1:79:A:ARG:HD3	1:80:A:LYS:H	11	0.12
(1,1369)	1:79:A:ARG:HB2	1:82:A:GLY:H	3	0.12
(1,1369)	1:79:A:ARG:HB3	1:82:A:GLY:H	3	0.12
(1,1280)	1:37:A:ILE:HG21	1:71:A:HIS:H	11	0.12
(1,1280)	1:37:A:ILE:HG22	1:71:A:HIS:H	11	0.12
(1,1280)	1:37:A:ILE:HG23	1:71:A:HIS:H	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1255)	1:69:A:VAL:HG21	1:74:A:ALA:H	2	0.12
(1,1255)	1:69:A:VAL:HG22	1:74:A:ALA:H	2	0.12
(1,1255)	1:69:A:VAL:HG23	1:74:A:ALA:H	2	0.12
(1,1255)	1:69:A:VAL:HG21	1:74:A:ALA:H	13	0.12
(1,1255)	1:69:A:VAL:HG22	1:74:A:ALA:H	13	0.12
(1,1255)	1:69:A:VAL:HG23	1:74:A:ALA:H	13	0.12
(1,1255)	1:69:A:VAL:HG21	1:74:A:ALA:H	14	0.12
(1,1255)	1:69:A:VAL:HG22	1:74:A:ALA:H	14	0.12
(1,1255)	1:69:A:VAL:HG23	1:74:A:ALA:H	14	0.12
(1,936)	1:38:A:VAL:HG11	1:39:A:ILE:H	8	0.12
(1,936)	1:38:A:VAL:HG12	1:39:A:ILE:H	8	0.12
(1,936)	1:38:A:VAL:HG13	1:39:A:ILE:H	8	0.12
(1,936)	1:38:A:VAL:HG11	1:39:A:ILE:H	15	0.12
(1,936)	1:38:A:VAL:HG12	1:39:A:ILE:H	15	0.12
(1,936)	1:38:A:VAL:HG13	1:39:A:ILE:H	15	0.12
(1,918)	1:66:A:MET:H	1:69:A:VAL:HG11	1	0.12
(1,918)	1:66:A:MET:H	1:69:A:VAL:HG12	1	0.12
(1,918)	1:66:A:MET:H	1:69:A:VAL:HG13	1	0.12
(1,793)	1:22:A:SER:H	1:39:A:ILE:HG12	6	0.12
(1,793)	1:22:A:SER:H	1:39:A:ILE:HG13	6	0.12
(1,778)	1:21:A:ILE:HG21	1:71:A:HIS:H	14	0.12
(1,778)	1:21:A:ILE:HG22	1:71:A:HIS:H	14	0.12
(1,778)	1:21:A:ILE:HG23	1:71:A:HIS:H	14	0.12
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD11	20	0.12
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD12	20	0.12
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD13	20	0.12
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB1	11	0.12
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB2	11	0.12
(1,722)	1:17:A:PHE:H	1:85:A:ALA:HB3	11	0.12
(1,708)	1:12:A:ALA:HB1	1:16:A:GLY:H	2	0.12
(1,708)	1:12:A:ALA:HB2	1:16:A:GLY:H	2	0.12
(1,708)	1:12:A:ALA:HB3	1:16:A:GLY:H	2	0.12
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD11	6	0.12
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD12	6	0.12
(1,637)	1:8:A:THR:H	1:87:A:ILE:HD13	6	0.12
(1,551)	1:1:A:ILE:HD11	1:2:A:TRP:H	9	0.12
(1,551)	1:1:A:ILE:HD12	1:2:A:TRP:H	9	0.12
(1,551)	1:1:A:ILE:HD13	1:2:A:TRP:H	9	0.12
(1,506)	1:39:A:ILE:HD11	1:89:A:ILE:HA	18	0.12
(1,506)	1:39:A:ILE:HD12	1:89:A:ILE:HA	18	0.12
(1,506)	1:39:A:ILE:HD13	1:89:A:ILE:HA	18	0.12
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG11	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG12	17	0.12
(1,494)	1:38:A:VAL:HA	1:58:A:VAL:HG13	17	0.12
(1,481)	1:6:A:THR:HA	1:89:A:ILE:HD11	17	0.12
(1,481)	1:6:A:THR:HA	1:89:A:ILE:HD12	17	0.12
(1,481)	1:6:A:THR:HA	1:89:A:ILE:HD13	17	0.12
(1,469)	1:37:A:ILE:HD11	1:74:A:ALA:HB1	14	0.12
(1,469)	1:37:A:ILE:HD11	1:74:A:ALA:HB2	14	0.12
(1,469)	1:37:A:ILE:HD11	1:74:A:ALA:HB3	14	0.12
(1,469)	1:37:A:ILE:HD12	1:74:A:ALA:HB1	14	0.12
(1,469)	1:37:A:ILE:HD12	1:74:A:ALA:HB2	14	0.12
(1,469)	1:37:A:ILE:HD12	1:74:A:ALA:HB3	14	0.12
(1,469)	1:37:A:ILE:HD13	1:74:A:ALA:HB1	14	0.12
(1,469)	1:37:A:ILE:HD13	1:74:A:ALA:HB2	14	0.12
(1,469)	1:37:A:ILE:HD13	1:74:A:ALA:HB3	14	0.12
(1,419)	1:21:A:ILE:HG21	1:21:A:ILE:HD11	10	0.12
(1,419)	1:21:A:ILE:HG21	1:21:A:ILE:HD12	10	0.12
(1,419)	1:21:A:ILE:HG21	1:21:A:ILE:HD13	10	0.12
(1,419)	1:21:A:ILE:HG22	1:21:A:ILE:HD11	10	0.12
(1,419)	1:21:A:ILE:HG22	1:21:A:ILE:HD12	10	0.12
(1,419)	1:21:A:ILE:HG22	1:21:A:ILE:HD13	10	0.12
(1,419)	1:21:A:ILE:HG23	1:21:A:ILE:HD11	10	0.12
(1,419)	1:21:A:ILE:HG23	1:21:A:ILE:HD12	10	0.12
(1,419)	1:21:A:ILE:HG23	1:21:A:ILE:HD13	10	0.12
(1,412)	1:39:A:ILE:HG21	1:55:A:ASN:H	12	0.12
(1,412)	1:39:A:ILE:HG22	1:55:A:ASN:H	12	0.12
(1,412)	1:39:A:ILE:HG23	1:55:A:ASN:H	12	0.12
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG2	8	0.12
(1,373)	1:88:A:THR:HG21	1:90:A:ARG:HG3	8	0.12
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG2	8	0.12
(1,373)	1:88:A:THR:HG22	1:90:A:ARG:HG3	8	0.12
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG2	8	0.12
(1,373)	1:88:A:THR:HG23	1:90:A:ARG:HG3	8	0.12
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD21	13	0.12
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD22	13	0.12
(1,327)	1:51:A:GLN:HB2	1:52:A:LEU:HD23	13	0.12
(1,323)	1:19:A:ILE:H	1:43:A:LEU:HD11	16	0.12
(1,323)	1:19:A:ILE:H	1:43:A:LEU:HD12	16	0.12
(1,323)	1:19:A:ILE:H	1:43:A:LEU:HD13	16	0.12
(1,294)	1:4:A:GLN:HB2	1:90:A:ARG:HG2	6	0.12
(1,294)	1:4:A:GLN:HB2	1:90:A:ARG:HG3	6	0.12
(1,294)	1:4:A:GLN:HB3	1:90:A:ARG:HG2	6	0.12
(1,294)	1:4:A:GLN:HB3	1:90:A:ARG:HG3	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,294)	1:4:A:GLN:HB2	1:90:A:ARG:HG2	9	0.12
(1,294)	1:4:A:GLN:HB2	1:90:A:ARG:HG3	9	0.12
(1,294)	1:4:A:GLN:HB3	1:90:A:ARG:HG2	9	0.12
(1,294)	1:4:A:GLN:HB3	1:90:A:ARG:HG3	9	0.12
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG2	19	0.12
(1,289)	1:44:A:LYS:HD2	1:49:A:GLU:HG3	19	0.12
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG2	19	0.12
(1,289)	1:44:A:LYS:HD3	1:49:A:GLU:HG3	19	0.12
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG2	5	0.12
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG3	5	0.12
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG2	5	0.12
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG3	5	0.12
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG2	5	0.12
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG3	5	0.12
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG2	15	0.12
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG3	15	0.12
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG2	15	0.12
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG3	15	0.12
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG2	15	0.12
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG3	15	0.12
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE2	4	0.12
(1,185)	1:76:A:GLN:HB2	1:80:A:LYS:HE3	4	0.12
(1,178)	1:79:A:ARG:HD2	1:80:A:LYS:HA	15	0.12
(1,178)	1:79:A:ARG:HD3	1:80:A:LYS:HA	15	0.12
(1,119)	1:69:A:VAL:HG21	1:74:A:ALA:HA	16	0.12
(1,119)	1:69:A:VAL:HG22	1:74:A:ALA:HA	16	0.12
(1,119)	1:69:A:VAL:HG23	1:74:A:ALA:HA	16	0.12
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG2	5	0.12
(1,117)	1:74:A:ALA:HA	1:77:A:GLN:HG3	5	0.12
(1,95)	1:77:A:GLN:HA	1:80:A:LYS:HD2	20	0.12
(1,95)	1:77:A:GLN:HA	1:80:A:LYS:HD3	20	0.12
(1,93)	1:44:A:LYS:HA	1:44:A:LYS:HD2	13	0.12
(1,93)	1:44:A:LYS:HA	1:44:A:LYS:HD3	13	0.12
(1,1674)	1:84:A:ASN:HB2	1:86:A:LYS:H	9	0.11
(1,1674)	1:84:A:ASN:HB3	1:86:A:LYS:H	9	0.11
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG11	14	0.11
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG12	14	0.11
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG13	14	0.11
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG21	14	0.11
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG22	14	0.11
(1,1630)	1:62:A:ASN:H	1:64:A:VAL:HG23	14	0.11
(1,1619)	1:61:A:VAL:HG11	1:66:A:MET:HB2	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1619)	1:61:A:VAL:HG12	1:66:A:MET:HB2	2	0.11
(1,1619)	1:61:A:VAL:HG13	1:66:A:MET:HB2	2	0.11
(1,1619)	1:61:A:VAL:HG21	1:66:A:MET:HB2	2	0.11
(1,1619)	1:61:A:VAL:HG22	1:66:A:MET:HB2	2	0.11
(1,1619)	1:61:A:VAL:HG23	1:66:A:MET:HB2	2	0.11
(1,1616)	1:61:A:VAL:HG11	1:64:A:VAL:H	11	0.11
(1,1616)	1:61:A:VAL:HG12	1:64:A:VAL:H	11	0.11
(1,1616)	1:61:A:VAL:HG13	1:64:A:VAL:H	11	0.11
(1,1616)	1:61:A:VAL:HG21	1:64:A:VAL:H	11	0.11
(1,1616)	1:61:A:VAL:HG22	1:64:A:VAL:H	11	0.11
(1,1616)	1:61:A:VAL:HG23	1:64:A:VAL:H	11	0.11
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG11	6	0.11
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG12	6	0.11
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG13	6	0.11
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG21	6	0.11
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG22	6	0.11
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG23	6	0.11
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG11	7	0.11
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG12	7	0.11
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG13	7	0.11
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG21	7	0.11
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG22	7	0.11
(1,1611)	1:61:A:VAL:HB	1:64:A:VAL:HG23	7	0.11
(1,1587)	1:42:A:VAL:HG11	1:50:A:GLY:H	14	0.11
(1,1587)	1:42:A:VAL:HG12	1:50:A:GLY:H	14	0.11
(1,1587)	1:42:A:VAL:HG13	1:50:A:GLY:H	14	0.11
(1,1587)	1:42:A:VAL:HG21	1:50:A:GLY:H	14	0.11
(1,1587)	1:42:A:VAL:HG22	1:50:A:GLY:H	14	0.11
(1,1587)	1:42:A:VAL:HG23	1:50:A:GLY:H	14	0.11
(1,1565)	1:36:A:SER:HB2	1:68:A:ASN:H	10	0.11
(1,1565)	1:36:A:SER:HB3	1:68:A:ASN:H	10	0.11
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG11	14	0.11
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG12	14	0.11
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG13	14	0.11
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG21	14	0.11
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG22	14	0.11
(1,1550)	1:21:A:ILE:HG12	1:75:A:VAL:HG23	14	0.11
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG11	14	0.11
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG12	14	0.11
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG13	14	0.11
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG21	14	0.11
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG22	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1550)	1:21:A:ILE:HG13	1:75:A:VAL:HG23	14	0.11
(1,1510)	1:10:A:HIS:HB2	1:12:A:ALA:H	1	0.11
(1,1510)	1:10:A:HIS:HB3	1:12:A:ALA:H	1	0.11
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE2	9	0.11
(1,1399)	1:83:A:LYS:H	1:83:A:LYS:HE3	9	0.11
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD2	7	0.11
(1,1374)	1:80:A:LYS:H	1:80:A:LYS:HD3	7	0.11
(1,1369)	1:79:A:ARG:HB2	1:82:A:GLY:H	4	0.11
(1,1369)	1:79:A:ARG:HB3	1:82:A:GLY:H	4	0.11
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG2	1	0.11
(1,1362)	1:79:A:ARG:H	1:79:A:ARG:HG3	1	0.11
(1,1303)	1:73:A:PHE:HB2	1:77:A:GLN:H	1	0.11
(1,1303)	1:73:A:PHE:HB3	1:77:A:GLN:H	1	0.11
(1,1214)	1:63:A:GLY:H	1:86:A:LYS:HD2	20	0.11
(1,1214)	1:63:A:GLY:H	1:86:A:LYS:HD3	20	0.11
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG2	13	0.11
(1,1118)	1:57:A:ARG:H	1:57:A:ARG:HG3	13	0.11
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB2	11	0.11
(1,1074)	1:25:A:ARG:H	1:70:A:GLU:HB3	11	0.11
(1,1047)	1:49:A:GLU:HG2	1:51:A:GLN:H	14	0.11
(1,1047)	1:49:A:GLU:HG3	1:51:A:GLN:H	14	0.11
(1,1007)	1:44:A:LYS:H	1:44:A:LYS:HE2	16	0.11
(1,1007)	1:44:A:LYS:H	1:44:A:LYS:HE3	16	0.11
(1,980)	1:9:A:LEU:HD11	1:52:A:LEU:H	12	0.11
(1,980)	1:9:A:LEU:HD12	1:52:A:LEU:H	12	0.11
(1,980)	1:9:A:LEU:HD13	1:52:A:LEU:H	12	0.11
(1,980)	1:9:A:LEU:HD21	1:52:A:LEU:H	12	0.11
(1,980)	1:9:A:LEU:HD22	1:52:A:LEU:H	12	0.11
(1,980)	1:9:A:LEU:HD23	1:52:A:LEU:H	12	0.11
(1,957)	1:39:A:ILE:HG21	1:54:A:GLU:H	20	0.11
(1,957)	1:39:A:ILE:HG22	1:54:A:GLU:H	20	0.11
(1,957)	1:39:A:ILE:HG23	1:54:A:GLU:H	20	0.11
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG21	6	0.11
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG22	6	0.11
(1,914)	1:37:A:ILE:H	1:69:A:VAL:HG23	6	0.11
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG12	10	0.11
(1,896)	1:36:A:SER:H	1:37:A:ILE:HG13	10	0.11
(1,893)	1:35:A:THR:HG21	1:68:A:ASN:H	1	0.11
(1,893)	1:35:A:THR:HG22	1:68:A:ASN:H	1	0.11
(1,893)	1:35:A:THR:HG23	1:68:A:ASN:H	1	0.11
(1,829)	1:25:A:ARG:H	1:25:A:ARG:HG2	4	0.11
(1,829)	1:25:A:ARG:H	1:25:A:ARG:HG3	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD11	10	0.11
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD12	10	0.11
(1,730)	1:18:A:GLY:H	1:43:A:LEU:HD13	10	0.11
(1,712)	1:15:A:PHE:H	1:43:A:LEU:HD11	7	0.11
(1,712)	1:15:A:PHE:H	1:43:A:LEU:HD12	7	0.11
(1,712)	1:15:A:PHE:H	1:43:A:LEU:HD13	7	0.11
(1,708)	1:12:A:ALA:HB1	1:16:A:GLY:H	4	0.11
(1,708)	1:12:A:ALA:HB2	1:16:A:GLY:H	4	0.11
(1,708)	1:12:A:ALA:HB3	1:16:A:GLY:H	4	0.11
(1,642)	1:8:A:THR:HG21	1:10:A:HIS:H	2	0.11
(1,642)	1:8:A:THR:HG22	1:10:A:HIS:H	2	0.11
(1,642)	1:8:A:THR:HG23	1:10:A:HIS:H	2	0.11
(1,551)	1:1:A:ILE:HD11	1:2:A:TRP:H	2	0.11
(1,551)	1:1:A:ILE:HD12	1:2:A:TRP:H	2	0.11
(1,551)	1:1:A:ILE:HD13	1:2:A:TRP:H	2	0.11
(1,525)	1:88:A:THR:HG21	1:90:A:ARG:HA	19	0.11
(1,525)	1:88:A:THR:HG22	1:90:A:ARG:HA	19	0.11
(1,525)	1:88:A:THR:HG23	1:90:A:ARG:HA	19	0.11
(1,444)	1:21:A:ILE:HD11	1:74:A:ALA:H	14	0.11
(1,444)	1:21:A:ILE:HD12	1:74:A:ALA:H	14	0.11
(1,444)	1:21:A:ILE:HD13	1:74:A:ALA:H	14	0.11
(1,423)	1:39:A:ILE:HG21	1:54:A:GLU:HA	7	0.11
(1,423)	1:39:A:ILE:HG22	1:54:A:GLU:HA	7	0.11
(1,423)	1:39:A:ILE:HG23	1:54:A:GLU:HA	7	0.11
(1,419)	1:21:A:ILE:HG21	1:21:A:ILE:HD11	5	0.11
(1,419)	1:21:A:ILE:HG21	1:21:A:ILE:HD12	5	0.11
(1,419)	1:21:A:ILE:HG21	1:21:A:ILE:HD13	5	0.11
(1,419)	1:21:A:ILE:HG22	1:21:A:ILE:HD11	5	0.11
(1,419)	1:21:A:ILE:HG22	1:21:A:ILE:HD12	5	0.11
(1,419)	1:21:A:ILE:HG22	1:21:A:ILE:HD13	5	0.11
(1,419)	1:21:A:ILE:HG23	1:21:A:ILE:HD11	5	0.11
(1,419)	1:21:A:ILE:HG23	1:21:A:ILE:HD12	5	0.11
(1,419)	1:21:A:ILE:HG23	1:21:A:ILE:HD13	5	0.11
(1,394)	1:17:A:PHE:HD1	1:85:A:ALA:HB1	1	0.11
(1,394)	1:17:A:PHE:HD1	1:85:A:ALA:HB2	1	0.11
(1,394)	1:17:A:PHE:HD1	1:85:A:ALA:HB3	1	0.11
(1,394)	1:17:A:PHE:HD2	1:85:A:ALA:HB1	1	0.11
(1,394)	1:17:A:PHE:HD2	1:85:A:ALA:HB2	1	0.11
(1,394)	1:17:A:PHE:HD2	1:85:A:ALA:HB3	1	0.11
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD2	17	0.11
(1,372)	1:6:A:THR:HG21	1:86:A:LYS:HD3	17	0.11
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD2	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,372)	1:6:A:THR:HG22	1:86:A:LYS:HD3	17	0.11
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD2	17	0.11
(1,372)	1:6:A:THR:HG23	1:86:A:LYS:HD3	17	0.11
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB2	5	0.11
(1,315)	1:1:A:ILE:HG13	1:3:A:GLU:HB3	5	0.11
(1,313)	1:52:A:LEU:HD11	1:89:A:ILE:HB	9	0.11
(1,313)	1:52:A:LEU:HD12	1:89:A:ILE:HB	9	0.11
(1,313)	1:52:A:LEU:HD13	1:89:A:ILE:HB	9	0.11
(1,305)	1:86:A:LYS:HG3	1:87:A:ILE:HG12	5	0.11
(1,305)	1:86:A:LYS:HG3	1:87:A:ILE:HG13	5	0.11
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG21	3	0.11
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG22	3	0.11
(1,270)	1:60:A:MET:HG3	1:88:A:THR:HG23	3	0.11
(1,267)	1:4:A:GLN:HB2	1:90:A:ARG:HD3	4	0.11
(1,267)	1:4:A:GLN:HB3	1:90:A:ARG:HD3	4	0.11
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG2	10	0.11
(1,261)	1:74:A:ALA:HB1	1:77:A:GLN:HG3	10	0.11
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG2	10	0.11
(1,261)	1:74:A:ALA:HB2	1:77:A:GLN:HG3	10	0.11
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG2	10	0.11
(1,261)	1:74:A:ALA:HB3	1:77:A:GLN:HG3	10	0.11
(1,254)	1:5:A:HIS:HB3	1:89:A:ILE:HD11	14	0.11
(1,254)	1:5:A:HIS:HB3	1:89:A:ILE:HD12	14	0.11
(1,254)	1:5:A:HIS:HB3	1:89:A:ILE:HD13	14	0.11
(1,17)	1:21:A:ILE:HD11	1:75:A:VAL:HA	1	0.11
(1,17)	1:21:A:ILE:HD12	1:75:A:VAL:HA	1	0.11
(1,17)	1:21:A:ILE:HD13	1:75:A:VAL:HA	1	0.11
(1,1610)	1:61:A:VAL:H	1:64:A:VAL:HG11	5	0.1
(1,1610)	1:61:A:VAL:H	1:64:A:VAL:HG12	5	0.1
(1,1610)	1:61:A:VAL:H	1:64:A:VAL:HG13	5	0.1
(1,1610)	1:61:A:VAL:H	1:64:A:VAL:HG21	5	0.1
(1,1610)	1:61:A:VAL:H	1:64:A:VAL:HG22	5	0.1
(1,1610)	1:61:A:VAL:H	1:64:A:VAL:HG23	5	0.1
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD11	7	0.1
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD12	7	0.1
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD13	7	0.1
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD21	7	0.1
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD22	7	0.1
(1,1498)	1:7:A:VAL:H	1:52:A:LEU:HD23	7	0.1
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE2	19	0.1
(1,1344)	1:77:A:GLN:H	1:80:A:LYS:HE3	19	0.1
(1,976)	1:9:A:LEU:HD11	1:48:A:ALA:H	18	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,976)	1:9:A:LEU:HD12	1:48:A:ALA:H	18	0.1
(1,976)	1:9:A:LEU:HD13	1:48:A:ALA:H	18	0.1
(1,976)	1:9:A:LEU:HD21	1:48:A:ALA:H	18	0.1
(1,976)	1:9:A:LEU:HD22	1:48:A:ALA:H	18	0.1
(1,976)	1:9:A:LEU:HD23	1:48:A:ALA:H	18	0.1
(1,867)	1:26:A:ASP:H	1:70:A:GLU:HG2	1	0.1
(1,867)	1:26:A:ASP:H	1:70:A:GLU:HG3	1	0.1
(1,682)	1:11:A:ARG:H	1:83:A:LYS:HB2	15	0.1
(1,682)	1:11:A:ARG:H	1:83:A:LYS:HB3	15	0.1
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB2	14	0.1
(1,454)	1:1:A:ILE:HD11	1:3:A:GLU:HB3	14	0.1
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB2	14	0.1
(1,454)	1:1:A:ILE:HD12	1:3:A:GLU:HB3	14	0.1
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB2	14	0.1
(1,454)	1:1:A:ILE:HD13	1:3:A:GLU:HB3	14	0.1
(1,346)	1:56:A:ASP:HA	1:89:A:ILE:HG21	1	0.1
(1,346)	1:56:A:ASP:HA	1:89:A:ILE:HG22	1	0.1
(1,346)	1:56:A:ASP:HA	1:89:A:ILE:HG23	1	0.1
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD11	19	0.1
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD12	19	0.1
(1,281)	1:-1:A:HIS:HB2	1:1:A:ILE:HD13	19	0.1
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD11	19	0.1
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD12	19	0.1
(1,281)	1:-1:A:HIS:HB3	1:1:A:ILE:HD13	19	0.1
(1,178)	1:79:A:ARG:HD2	1:80:A:LYS:HA	12	0.1
(1,178)	1:79:A:ARG:HD3	1:80:A:LYS:HA	12	0.1
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG21	11	0.1
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG22	11	0.1
(1,28)	1:58:A:VAL:HA	1:88:A:THR:HG23	11	0.1

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

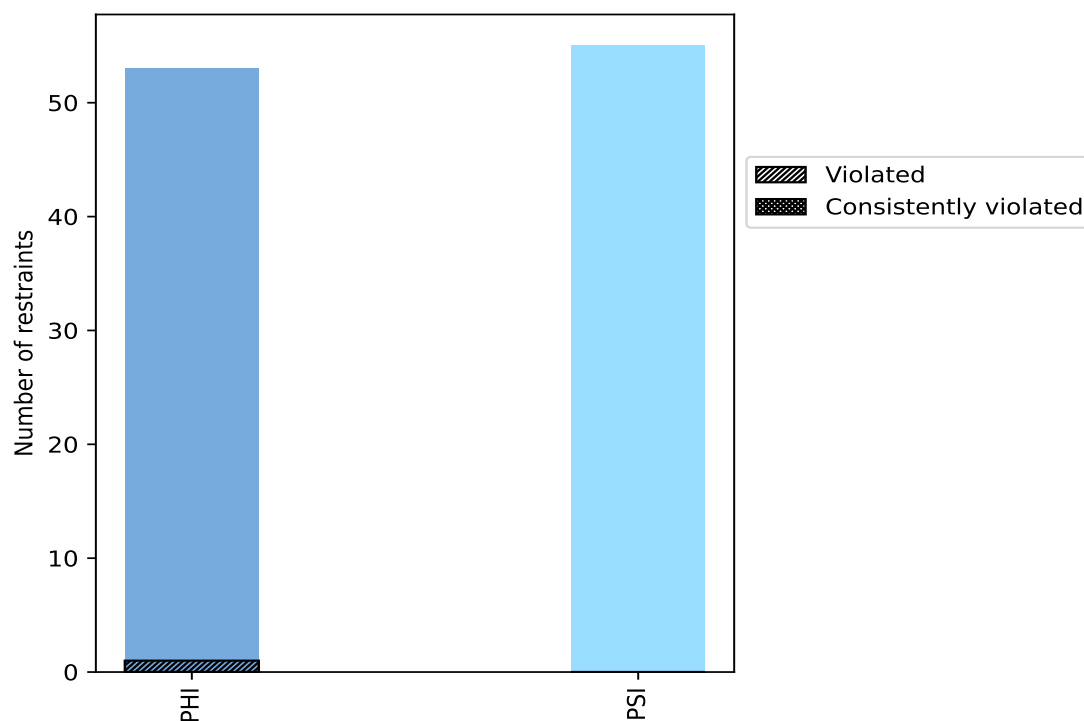
10.1 Summary of dihedral-angle violations [i](#)

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
PHI	53	49.1	1	1.9	0.9	0	0.0	0.0
PSI	55	50.9	0	0.0	0.0	0	0.0	0.0
Total	108	100.0	1	0.9	0.9	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](#)



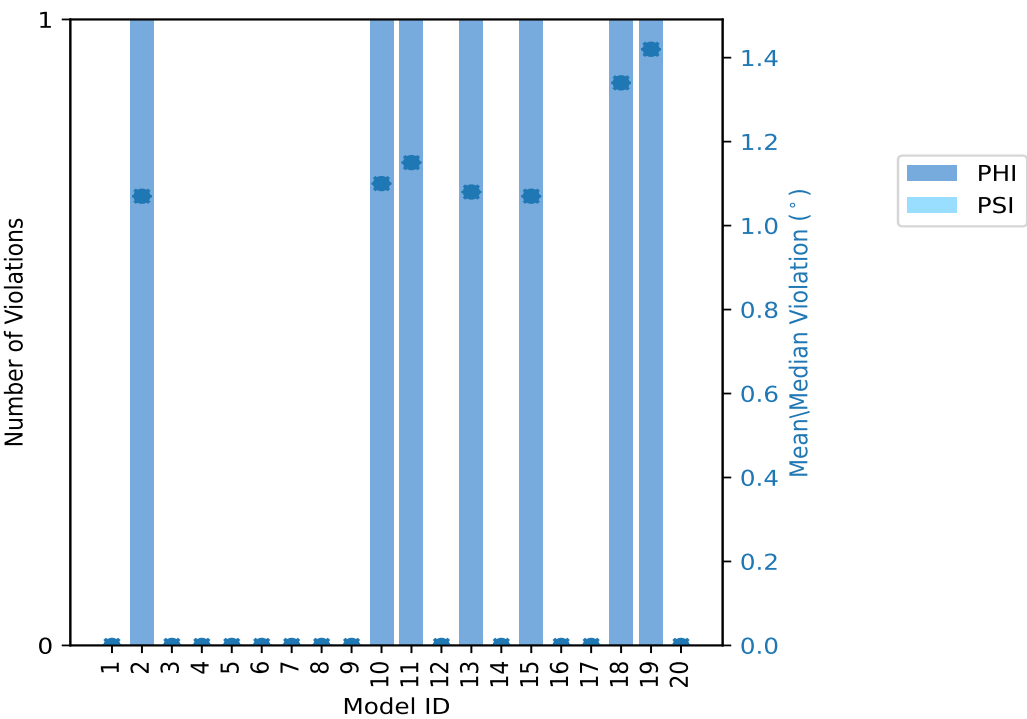
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model

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 (°)
	PHI	PSI	Total				
1	0	0	0	0.0	0.0	0.0	0.0
2	1	0	1	1.07	1.07	0.0	1.07
3	0	0	0	0.0	0.0	0.0	0.0
4	0	0	0	0.0	0.0	0.0	0.0
5	0	0	0	0.0	0.0	0.0	0.0
6	0	0	0	0.0	0.0	0.0	0.0
7	0	0	0	0.0	0.0	0.0	0.0
8	0	0	0	0.0	0.0	0.0	0.0
9	0	0	0	0.0	0.0	0.0	0.0
10	1	0	1	1.1	1.1	0.0	1.1
11	1	0	1	1.15	1.15	0.0	1.15
12	0	0	0	0.0	0.0	0.0	0.0
13	1	0	1	1.08	1.08	0.0	1.08
14	0	0	0	0.0	0.0	0.0	0.0
15	1	0	1	1.07	1.07	0.0	1.07
16	0	0	0	0.0	0.0	0.0	0.0
17	0	0	0	0.0	0.0	0.0	0.0
18	1	0	1	1.34	1.34	0.0	1.34
19	1	0	1	1.42	1.42	0.0	1.42
20	0	0	0	0.0	0.0	0.0	0.0

10.2.1 Bar graph : Dihedral violation statistics for each model ⓘ



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

10.3 Dihedral-angle violation statistics for the ensemble ⓘ

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	
PHI	PSI	Total	Count ¹	%
0	0	0	1	5.0
0	0	0	2	10.0
0	0	0	3	15.0
0	0	0	4	20.0
0	0	0	5	25.0
0	0	0	6	30.0
1	0	1	7	35.0
0	0	0	8	40.0
0	0	0	9	45.0
0	0	0	10	50.0
0	0	0	11	55.0

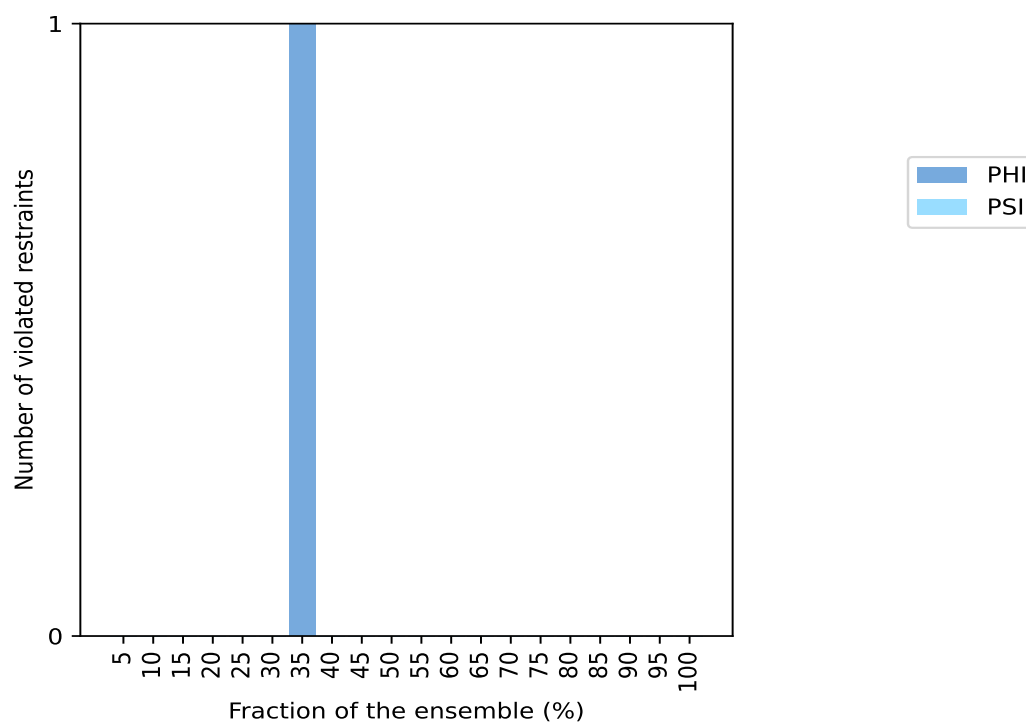
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Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
0	0	0	12	60.0
0	0	0	13	65.0
0	0	0	14	70.0
0	0	0	15	75.0
0	0	0	16	80.0
0	0	0	17	85.0
0	0	0	18	90.0
0	0	0	19	95.0
0	0	0	20	100.0

¹ Number of models with violations

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

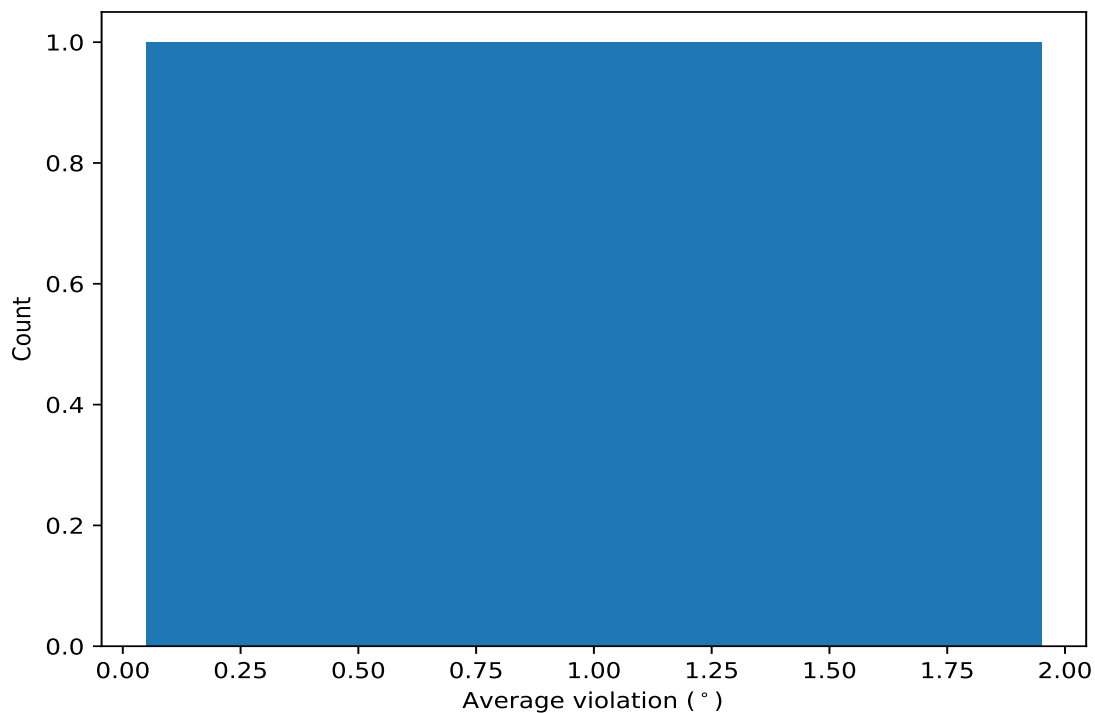


10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

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.

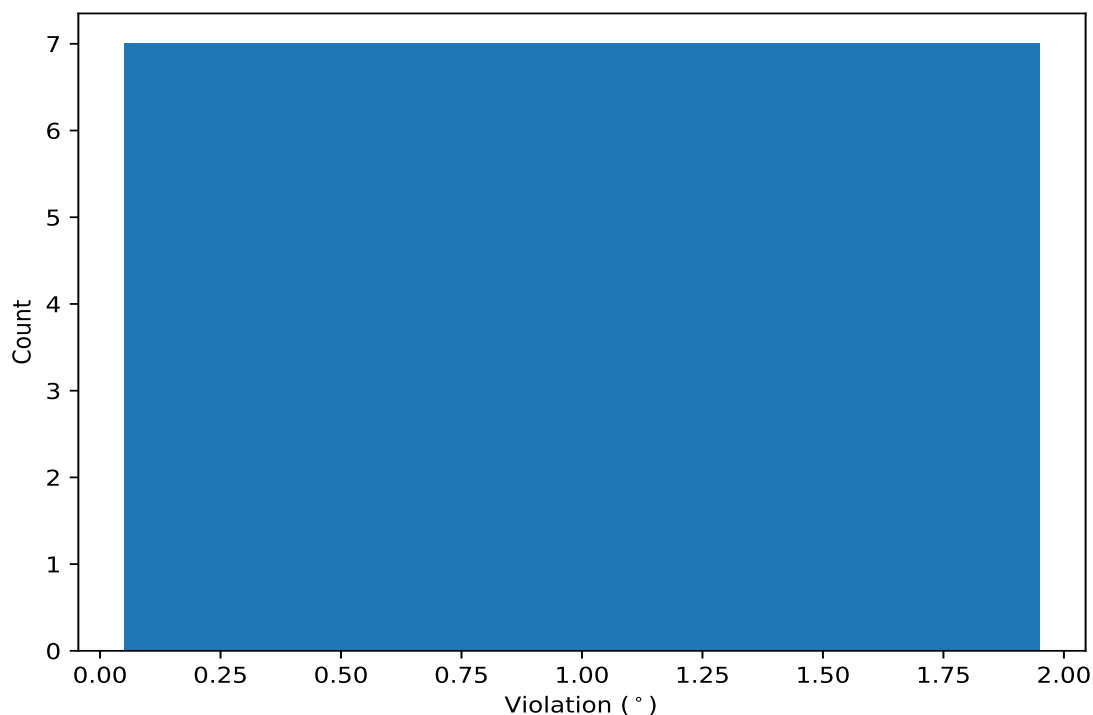
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,6)	1:3:A:GLU:C	1:4:A:GLN:N	1:4:A:GLN:CA	1:4:A:GLN:C	7	1.18	0.13	1.1

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 (°)
(1,6)	1:3:A:GLU:C	1:4:A:GLN:N	1:4:A:GLN:CA	1:4:A:GLN:C	19	1.42
(1,6)	1:3:A:GLU:C	1:4:A:GLN:N	1:4:A:GLN:CA	1:4:A:GLN:C	18	1.34
(1,6)	1:3:A:GLU:C	1:4:A:GLN:N	1:4:A:GLN:CA	1:4:A:GLN:C	11	1.15
(1,6)	1:3:A:GLU:C	1:4:A:GLN:N	1:4:A:GLN:CA	1:4:A:GLN:C	10	1.1
(1,6)	1:3:A:GLU:C	1:4:A:GLN:N	1:4:A:GLN:CA	1:4:A:GLN:C	13	1.08
(1,6)	1:3:A:GLU:C	1:4:A:GLN:N	1:4:A:GLN:CA	1:4:A:GLN:C	2	1.07
(1,6)	1:3:A:GLU:C	1:4:A:GLN:N	1:4:A:GLN:CA	1:4:A:GLN:C	15	1.07