



Full wwPDB NMR Structure Validation Report ⓘ

Mar 26, 2026 – 09:09 PM UTC

PDB ID : 5NF8 / pdb_00005nf8
BMRB ID : 34115
Title : Solution structure of detergent-solubilized Rcf1, a yeast mitochondrial inner membrane protein involved in respiratory Complex III/IV supercomplex formation
Authors : Zhou, S.; Pettersson, P.; Sjöholm, J.; Sjöstrand, D.; Hogbom, M.; Brzezinski, P.; Maler, L.; Adelroth, P.
Deposited on : 2017-03-13

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

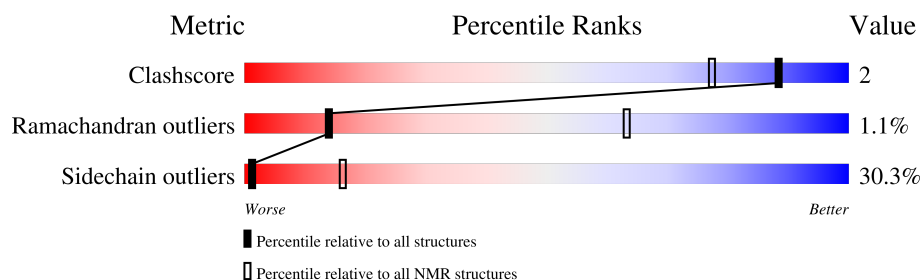
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 40%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	174	
1	B	174	

2 Ensemble composition and analysis

This entry contains 15 models. Model 13 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:12-A:159, B:12-B:159 (296)	1.91	13

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

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

The models can be grouped into 4 clusters and 4 single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 5272 atoms, of which 2684 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Respiratory supercomplex factor 1, mitochondrial.

Mol	Chain	Residues	Atoms						Trace
1	A	159	Total	C	H	N	O	S	0
			2636	816	1342	232	239	7	
1	B	159	Total	C	H	N	O	S	0
			2636	816	1342	232	239	7	

There are 30 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	160	GLU	-	expression tag	UNP B3LLM2
A	161	PHE	-	expression tag	UNP B3LLM2
A	162	ARG	-	expression tag	UNP B3LLM2
A	163	VAL	-	expression tag	UNP B3LLM2
A	164	PRO	-	expression tag	UNP B3LLM2
A	165	GLY	-	expression tag	UNP B3LLM2
A	166	SER	-	expression tag	UNP B3LLM2
A	167	HIS	-	expression tag	UNP B3LLM2
A	168	HIS	-	expression tag	UNP B3LLM2
A	169	HIS	-	expression tag	UNP B3LLM2
A	170	HIS	-	expression tag	UNP B3LLM2
A	171	HIS	-	expression tag	UNP B3LLM2
A	172	HIS	-	expression tag	UNP B3LLM2
A	173	HIS	-	expression tag	UNP B3LLM2
A	174	HIS	-	expression tag	UNP B3LLM2
B	160	GLU	-	expression tag	UNP B3LLM2
B	161	PHE	-	expression tag	UNP B3LLM2
B	162	ARG	-	expression tag	UNP B3LLM2
B	163	VAL	-	expression tag	UNP B3LLM2
B	164	PRO	-	expression tag	UNP B3LLM2
B	165	GLY	-	expression tag	UNP B3LLM2
B	166	SER	-	expression tag	UNP B3LLM2
B	167	HIS	-	expression tag	UNP B3LLM2
B	168	HIS	-	expression tag	UNP B3LLM2
B	169	HIS	-	expression tag	UNP B3LLM2
B	170	HIS	-	expression tag	UNP B3LLM2
B	171	HIS	-	expression tag	UNP B3LLM2
B	172	HIS	-	expression tag	UNP B3LLM2
B	173	HIS	-	expression tag	UNP B3LLM2

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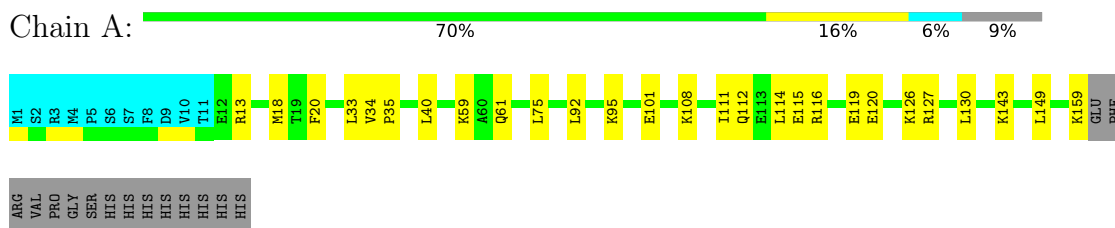
Chain	Residue	Modelled	Actual	Comment	Reference
B	174	HIS	-	expression tag	UNP B3LLM2

4 Residue-property plots

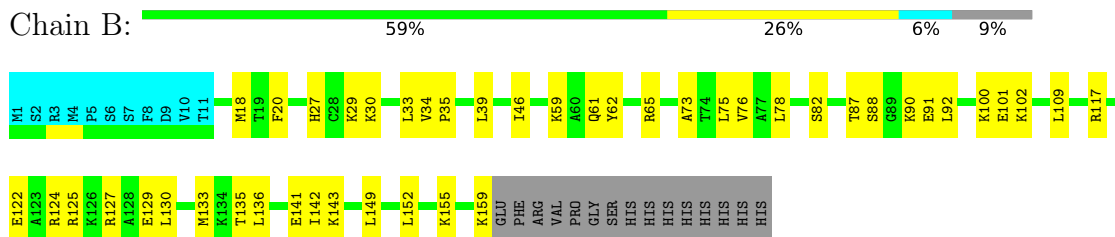
4.1 Average score per residue in the NMR ensemble

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: Respiratory supercomplex factor 1, mitochondrial



- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

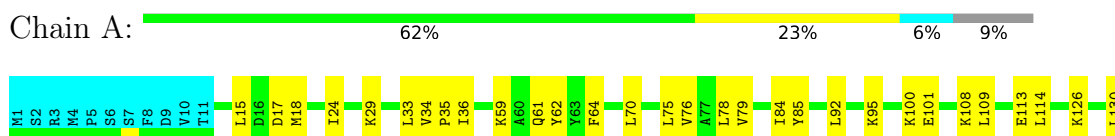


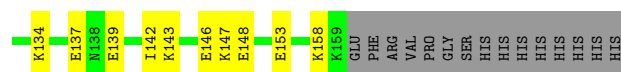
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

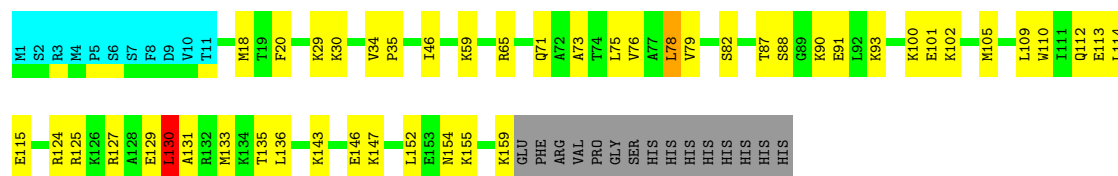
- Molecule 1: Respiratory supercomplex factor 1, mitochondrial





- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

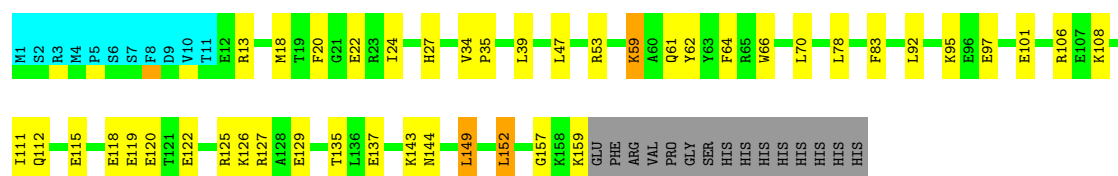
Chain B: 58% 26% 6% 9%



4.2.2 Score per residue for model 2

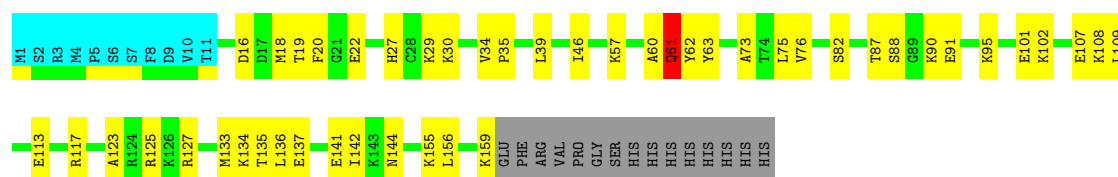
- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

Chain A: 60% 24% 6% 9%



- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

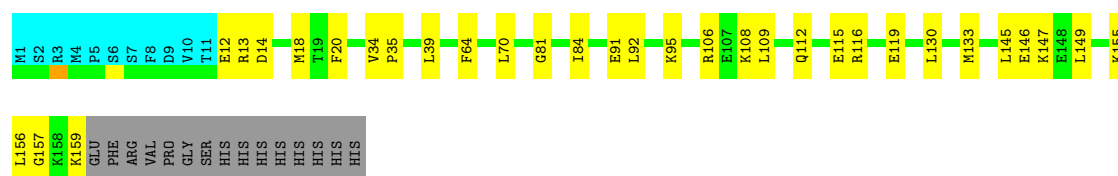
Chain B: 58% 26% 6% 9%



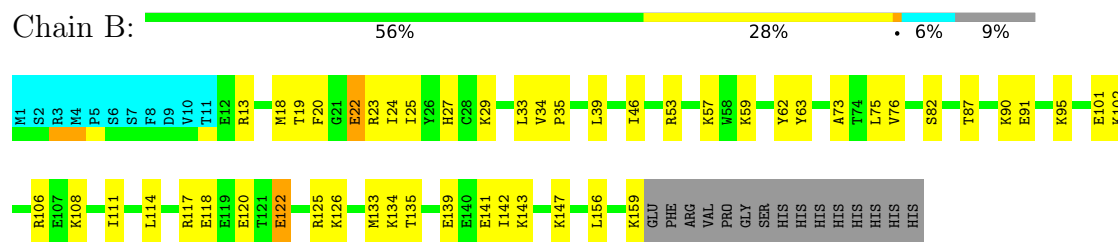
4.2.3 Score per residue for model 3

- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

Chain A: 67% 18% 6% 9%

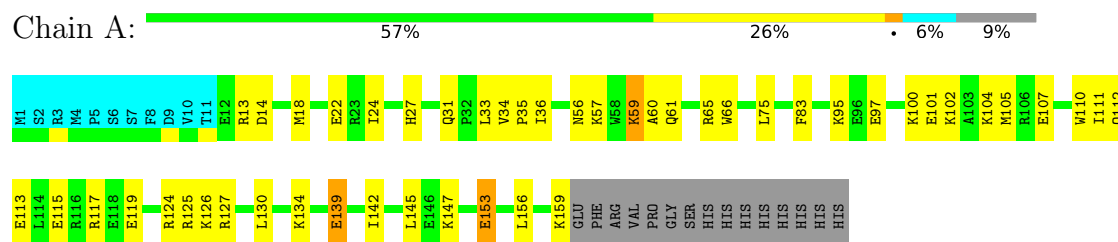


- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

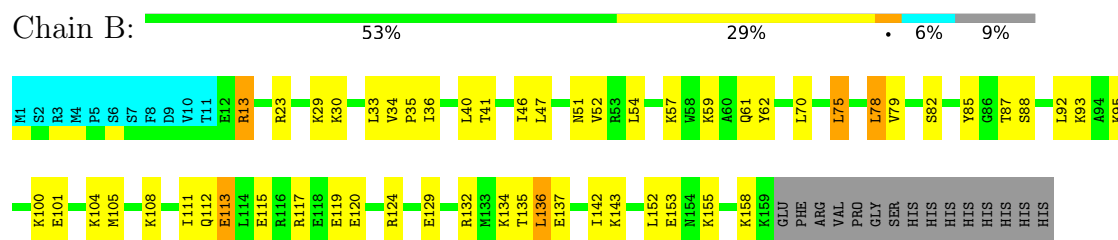


4.2.4 Score per residue for model 4

- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

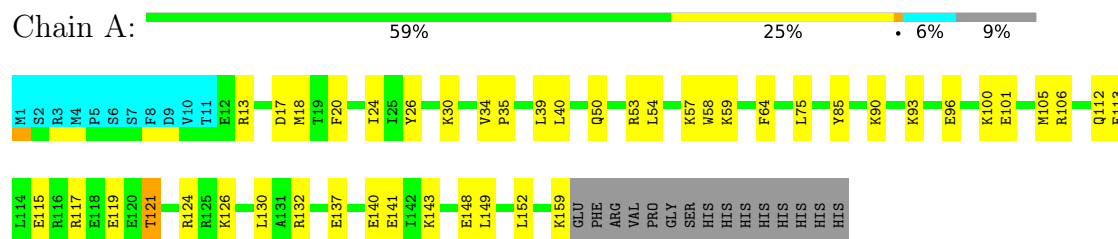


- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

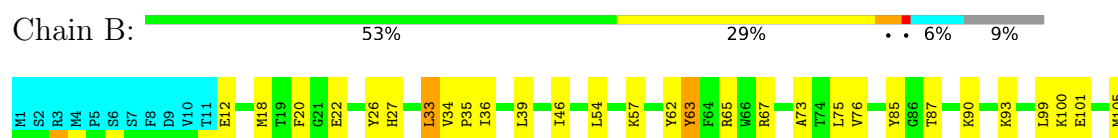


4.2.5 Score per residue for model 5

- Molecule 1: Respiratory supercomplex factor 1, mitochondrial



- Molecule 1: Respiratory supercomplex factor 1, mitochondrial





4.2.6 Score per residue for model 6

- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

Chain A: 63% 21% 6% 9%



- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

Chain B: 57% 25% 6% 9%



4.2.7 Score per residue for model 7

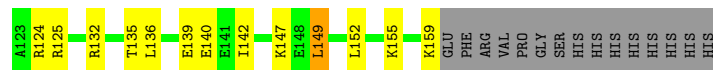
- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

Chain A: 62% 22% 6% 9%



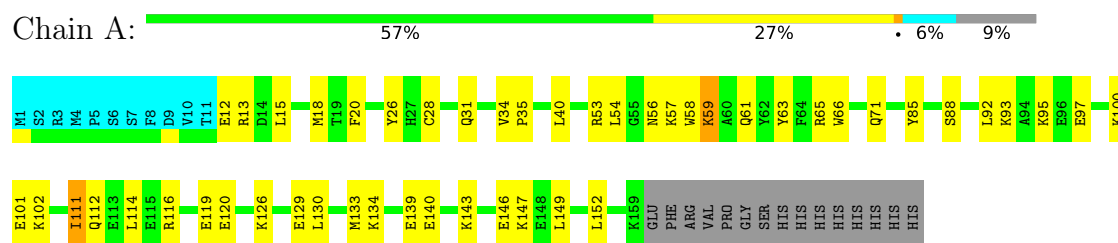
- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

Chain B: 59% 24% 6% 9%

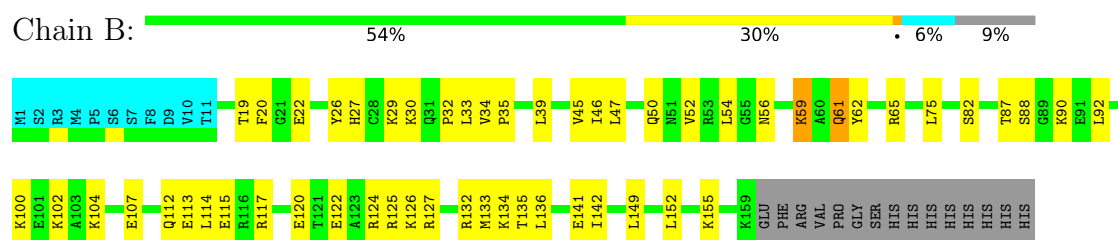


4.2.8 Score per residue for model 8

- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

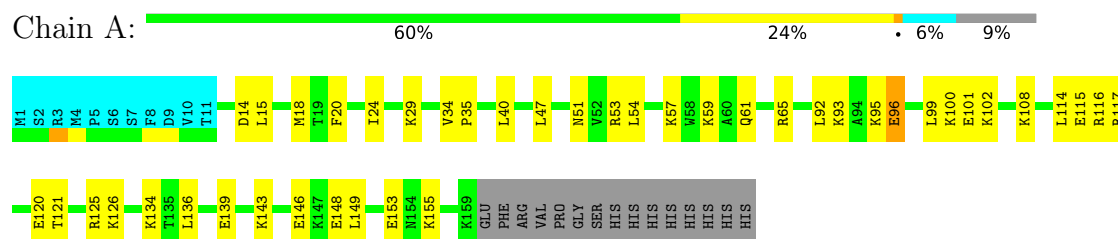


- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

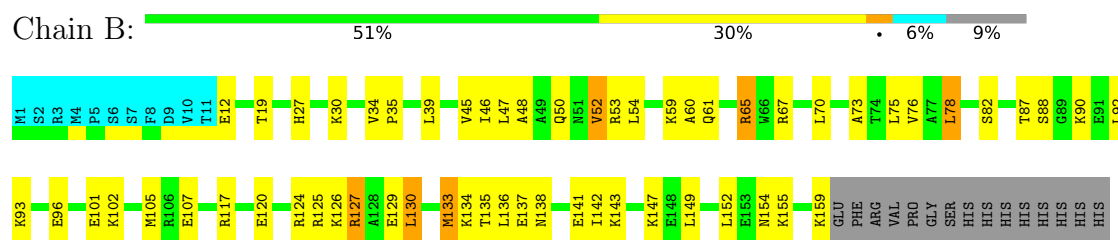


4.2.9 Score per residue for model 9

- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

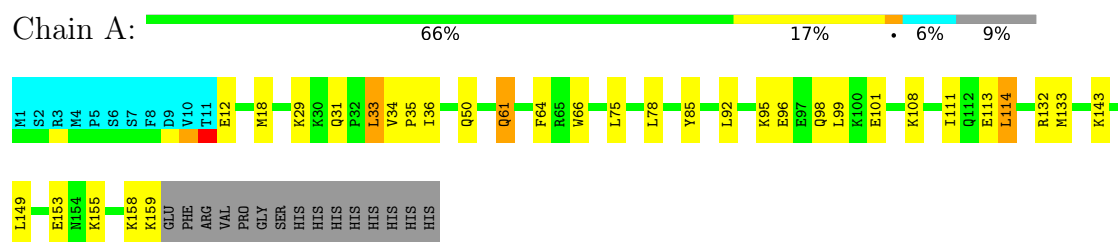


- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

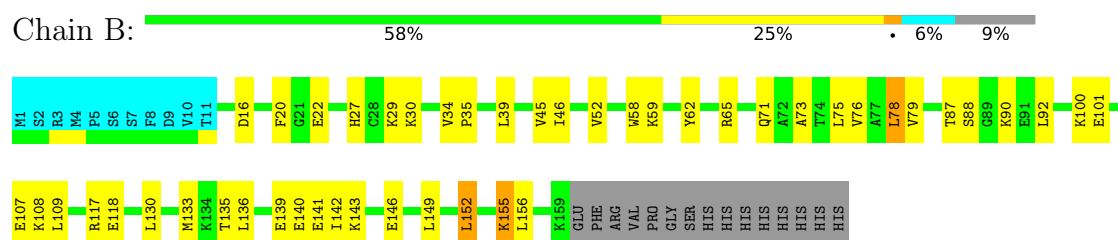


4.2.10 Score per residue for model 10

- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

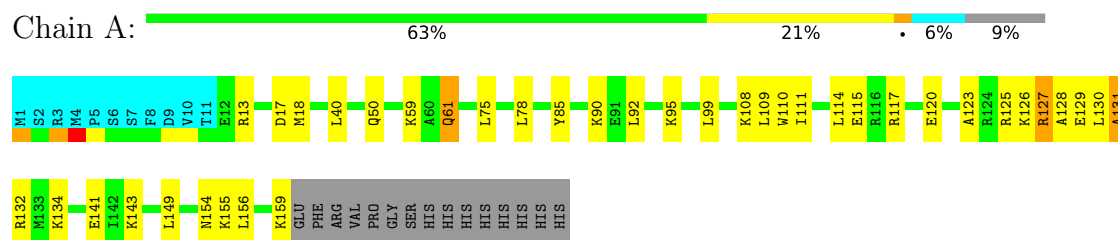


- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

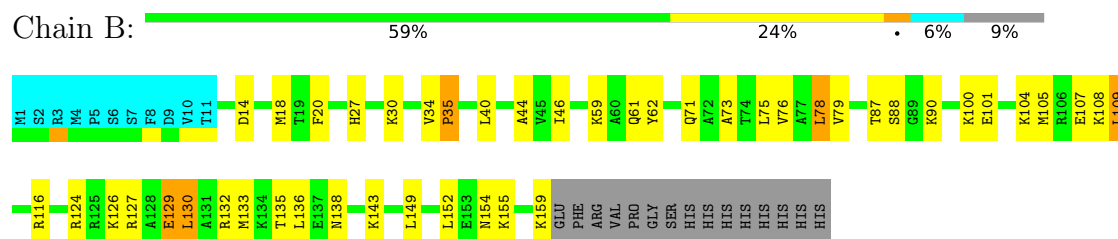


4.2.11 Score per residue for model 11

- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

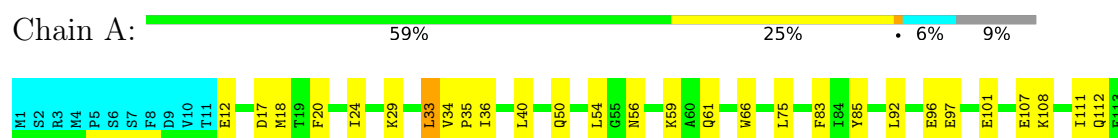


- Molecule 1: Respiratory supercomplex factor 1, mitochondrial



4.2.12 Score per residue for model 12

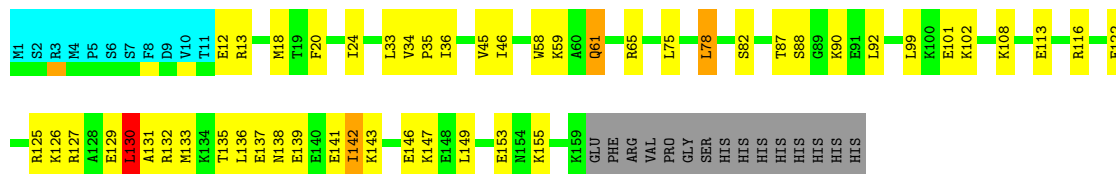
- Molecule 1: Respiratory supercomplex factor 1, mitochondrial





- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

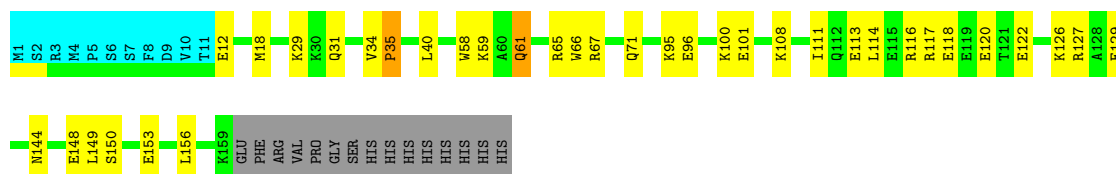
Chain B: 56% 26% 6% 9%



4.2.13 Score per residue for model 13 (medoid)

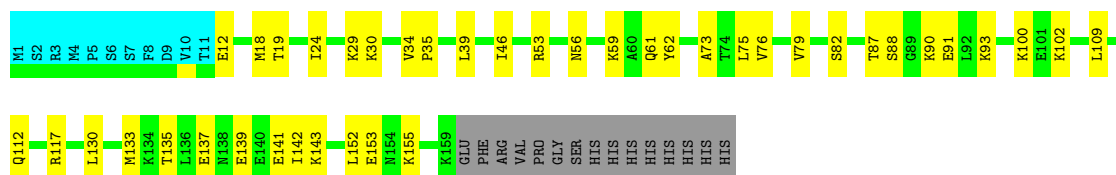
- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

Chain A: 64% 20% 6% 9%



- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

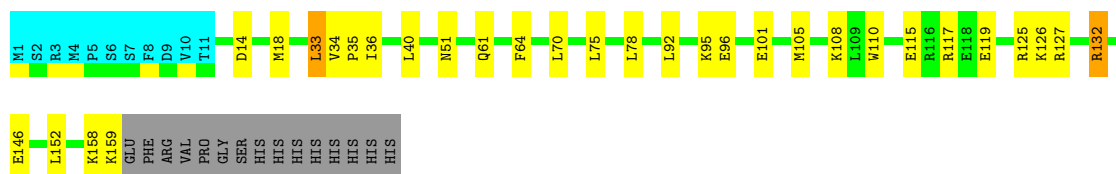
Chain B: 61% 24% 6% 9%



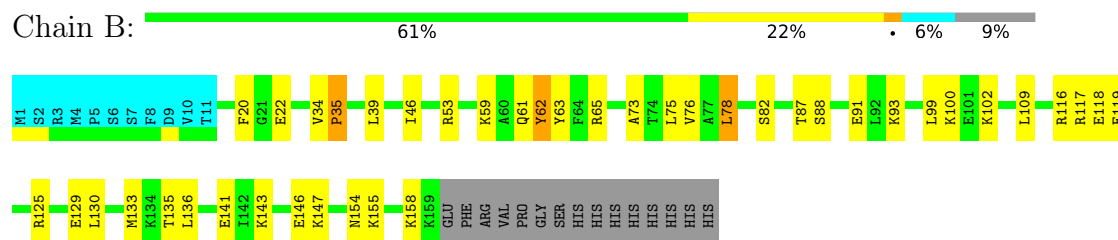
4.2.14 Score per residue for model 14

- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

Chain A: 67% 17% 6% 9%

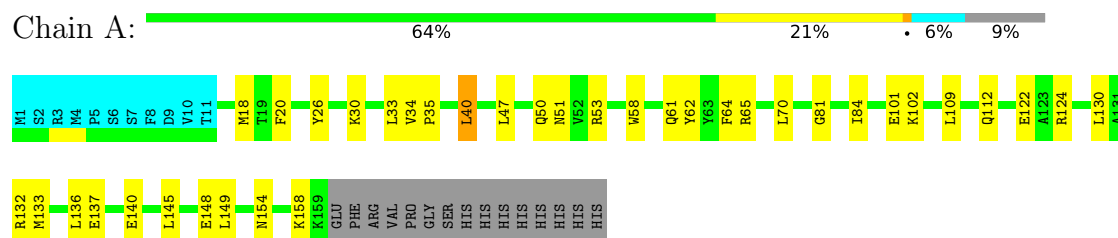


- Molecule 1: Respiratory supercomplex factor 1, mitochondrial

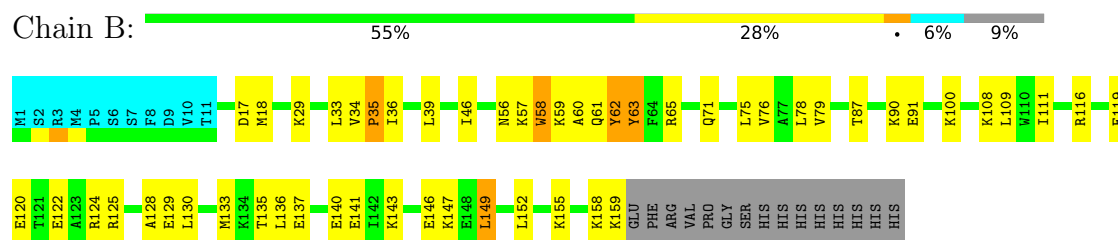


4.2.15 Score per residue for model 15

- Molecule 1: Respiratory supercomplex factor 1, mitochondrial



- Molecule 1: Respiratory supercomplex factor 1, mitochondrial



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 15 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 calculation	

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	1779
Number of shifts mapped to atoms	1779
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	40%

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	1209	1258	1257	3±1
1	B	1209	1258	1257	6±3
All	All	36270	37740	37710	139

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 2.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:78:LEU:HD11	1:B:95:LYS:HE2	0.81	1.53	4	1
1:B:127:ARG:HA	1:B:130:LEU:HD23	0.71	1.62	5	1
1:B:78:LEU:HD13	1:B:78:LEU:C	0.70	2.11	1	6
1:B:149:LEU:HA	1:B:152:LEU:HD12	0.67	1.66	7	2
1:B:78:LEU:C	1:B:78:LEU:HD13	0.65	2.16	11	1
1:B:33:LEU:HD22	1:B:36:ILE:HD12	0.62	1.71	5	2
1:B:131:ALA:HB1	1:B:134:LYS:HG3	0.60	1.72	5	1
1:B:78:LEU:HD22	1:B:78:LEU:O	0.59	1.97	6	7
1:B:73:ALA:O	1:B:76:VAL:HG22	0.54	2.03	1	9
1:A:33:LEU:HD22	1:A:36:ILE:HD12	0.54	1.80	4	1
1:A:40:LEU:HD11	1:A:145:LEU:HD23	0.54	1.79	15	1
1:A:149:LEU:HA	1:A:152:LEU:HD23	0.53	1.79	2	1
1:B:34:VAL:HB	1:B:35:PRO:HD3	0.52	1.82	10	15

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:78:LEU:C	1:B:78:LEU:CD1	0.52	2.83	1	5
1:A:149:LEU:HA	1:A:152:LEU:HD12	0.52	1.80	5	1
1:B:129:GLU:O	1:B:130:LEU:C	0.52	2.53	11	1
1:A:33:LEU:HB2	1:A:36:ILE:HG22	0.51	1.81	1	1
1:A:130:LEU:O	1:A:131:ALA:CB	0.51	2.58	11	1
1:A:81:GLY:O	1:A:84:ILE:HG22	0.50	2.06	7	3
1:B:108:LYS:HB2	1:B:111:ILE:HD12	0.50	1.82	3	1
1:A:34:VAL:HB	1:A:35:PRO:HD3	0.50	1.84	3	13
1:B:33:LEU:HD22	1:B:36:ILE:CD1	0.50	2.36	5	1
1:B:76:VAL:O	1:B:79:VAL:HG12	0.50	2.07	13	2
1:B:91:GLU:HG3	1:B:92:LEU:N	0.49	2.21	6	1
1:B:78:LEU:HD13	1:B:79:VAL:N	0.48	2.23	11	3
1:B:56:ASN:HA	1:B:59:LYS:HD3	0.48	1.85	8	1
1:B:52:VAL:HG22	1:B:65:ARG:NH2	0.48	2.24	10	1
1:B:60:ALA:HB1	1:B:62:TYR:CZ	0.48	2.43	15	1
1:B:32:PRO:C	1:B:33:LEU:HD22	0.47	2.34	8	1
1:B:33:LEU:CD2	1:B:36:ILE:HD12	0.47	2.40	12	2
1:B:40:LEU:O	1:B:44:ALA:HB2	0.47	2.09	11	1
1:A:56:ASN:O	1:A:60:ALA:HB2	0.46	2.11	4	1
1:A:33:LEU:CB	1:A:36:ILE:HG22	0.46	2.40	1	1
1:B:72:ALA:O	1:B:76:VAL:HG13	0.46	2.09	6	1
1:B:34:VAL:HB	1:B:35:PRO:CD	0.46	2.41	8	6
1:B:152:LEU:HA	1:B:155:LYS:CE	0.45	2.41	10	1
1:B:138:ASN:O	1:B:142:ILE:HG23	0.45	2.10	6	2
1:A:33:LEU:HD13	1:A:36:ILE:HD12	0.45	1.88	14	1
1:A:114:LEU:HD13	1:A:114:LEU:N	0.45	2.26	10	1
1:A:24:ILE:HG21	1:A:142:ILE:HD12	0.44	1.90	7	1
1:A:34:VAL:HB	1:A:35:PRO:CD	0.44	2.43	5	2
1:B:152:LEU:C	1:B:152:LEU:HD12	0.44	2.36	5	1
1:A:123:ALA:HB1	1:A:127:ARG:NH1	0.44	2.27	11	1
1:B:62:TYR:CD1	1:B:62:TYR:C	0.44	2.95	14	1
1:A:139:GLU:O	1:A:142:ILE:HG22	0.44	2.12	4	1
1:B:110:TRP:O	1:B:111:ILE:HD12	0.44	2.13	5	1
1:B:60:ALA:HB1	1:B:62:TYR:CE1	0.44	2.48	15	1
1:A:33:LEU:HD13	1:A:36:ILE:HD11	0.44	1.90	10	3
1:B:50:GLN:HG2	1:B:54:LEU:HD12	0.43	1.90	9	1
1:A:76:VAL:O	1:A:79:VAL:HG12	0.43	2.13	1	1
1:B:115:GLU:HB2	1:B:119:GLU:HB2	0.43	1.90	5	1
1:A:115:GLU:HG2	1:A:119:GLU:HB3	0.43	1.90	12	1
1:A:114:LEU:HD13	1:A:114:LEU:H	0.43	1.73	10	1
1:A:56:ASN:HA	1:A:66:TRP:CZ2	0.43	2.48	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:129:GLU:O	1:B:130:LEU:CB	0.43	2.66	12	2
1:A:34:VAL:N	1:A:35:PRO:HD2	0.42	2.28	1	1
1:A:153:GLU:HA	1:A:156:LEU:HD12	0.42	1.91	4	1
1:B:22:GLU:HA	1:B:25:ILE:HD12	0.42	1.90	3	1
1:B:65:ARG:O	1:B:65:ARG:HD2	0.42	2.13	9	1
1:B:121:THR:HA	1:B:124:ARG:HD3	0.42	1.91	6	1
1:B:78:LEU:HD12	1:B:78:LEU:C	0.41	2.40	15	1
1:B:152:LEU:HD12	1:B:153:GLU:N	0.41	2.30	5	1
1:A:96:GLU:HA	1:A:99:LEU:HD12	0.41	1.92	9	1
1:B:48:ALA:O	1:B:52:VAL:HG22	0.41	2.15	9	1
1:B:33:LEU:HD22	1:B:36:ILE:CG2	0.41	2.46	15	1
1:B:75:LEU:O	1:B:79:VAL:HG23	0.41	2.16	4	1
1:B:138:ASN:O	1:B:142:ILE:HG22	0.41	2.16	5	1
1:B:50:GLN:CG	1:B:54:LEU:HD12	0.41	2.46	8	1
1:B:60:ALA:C	1:B:61:GLN:CG	0.40	2.94	2	1
1:A:59:LYS:HA	1:A:66:TRP:CH2	0.40	2.52	2	1
1:B:13:ARG:HB3	1:B:136:LEU:HD11	0.40	1.93	4	1
1:B:92:LEU:C	1:B:92:LEU:HD12	0.40	2.41	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	147/174 (84%)	137±2 (93±1%)	8±2 (6±1%)	1±1 (1±1%)	15	65
1	B	147/174 (84%)	137±3 (94±2%)	8±3 (5±2%)	2±1 (1±1%)	13	61
All	All	4410/5220 (84%)	4122 (93%)	239 (5%)	49 (1%)	14	63

All 28 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	B	130	LEU	5
1	A	61	GLN	4
1	B	35	PRO	4

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Mol	Chain	Res	Type	Models (Total)
1	B	61	GLN	3
1	A	62	TYR	2
1	A	157	GLY	2
1	A	59	LYS	2
1	A	112	GLN	2
1	B	63	TYR	2
1	A	111	ILE	2
1	B	60	ALA	2
1	A	131	ALA	2
1	B	62	TYR	2
1	B	113	GLU	1
1	B	115	GLU	1
1	B	87	THR	1
1	B	111	ILE	1
1	A	13	ARG	1
1	A	114	LEU	1
1	A	116	ARG	1
1	B	114	LEU	1
1	B	132	ARG	1
1	B	129	GLU	1
1	A	12	GLU	1
1	A	35	PRO	1
1	A	132	ARG	1
1	B	58	TRP	1
1	B	59	LYS	1

6.3.2 Protein sidechains ⓘ

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	126/151 (83%)	91±5 (72±4%)	35±5 (28±4%)	1	20
1	B	126/151 (83%)	85±4 (67±3%)	41±4 (33±3%)	1	12
All	All	3780/4530 (83%)	2636 (70%)	1144 (30%)	1	16

All 205 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	18	MET	15
1	B	46	ILE	15
1	B	75	LEU	15
1	B	135	THR	15
1	B	87	THR	14
1	B	155	LYS	14
1	B	90	LYS	13
1	B	133	MET	13
1	B	136	LEU	13
1	A	61	GLN	12
1	A	101	GLU	11
1	A	108	LYS	11
1	B	59	LYS	11
1	B	88	SER	11
1	B	100	LYS	11
1	B	101	GLU	11
1	B	125	ARG	11
1	B	39	LEU	11
1	A	59	LYS	10
1	A	92	LEU	10
1	A	95	LYS	10
1	B	20	PHE	10
1	B	109	LEU	10
1	B	143	LYS	10
1	A	159	LYS	10
1	B	142	ILE	10
1	B	18	MET	9
1	B	82	SER	9
1	B	102	LYS	9
1	A	149	LEU	9
1	B	61	GLN	9
1	B	62	TYR	9
1	B	117	ARG	9
1	B	141	GLU	9
1	A	40	LEU	9
1	A	75	LEU	8
1	A	143	LYS	8
1	B	29	LYS	8
1	B	30	LYS	8
1	B	65	ARG	8
1	B	78	LEU	8
1	B	91	GLU	8
1	B	130	LEU	8

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Mol	Chain	Res	Type	Models (Total)
1	B	152	LEU	8
1	B	159	LYS	8
1	A	20	PHE	8
1	A	111	ILE	8
1	A	115	GLU	8
1	A	120	GLU	8
1	B	27	HIS	8
1	B	149	LEU	8
1	A	64	PHE	7
1	A	100	LYS	7
1	A	114	LEU	7
1	A	126	LYS	7
1	A	130	LEU	7
1	B	93	LYS	7
1	B	124	ARG	7
1	B	147	LYS	7
1	A	13	ARG	7
1	A	53	ARG	7
1	A	112	GLN	7
1	A	119	GLU	7
1	A	127	ARG	7
1	B	57	LYS	7
1	B	137	GLU	7
1	A	116	ARG	7
1	B	120	GLU	7
1	B	122	GLU	7
1	B	126	LYS	7
1	B	92	LEU	7
1	A	24	ILE	6
1	A	70	LEU	6
1	A	85	TYR	6
1	A	113	GLU	6
1	A	134	LYS	6
1	A	146	GLU	6
1	A	148	GLU	6
1	A	153	GLU	6
1	B	113	GLU	6
1	B	127	ARG	6
1	B	146	GLU	6
1	B	22	GLU	6
1	B	108	LYS	6
1	B	134	LYS	6

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Mol	Chain	Res	Type	Models (Total)
1	A	155	LYS	6
1	B	139	GLU	6
1	A	65	ARG	6
1	A	117	ARG	6
1	A	50	GLN	6
1	A	58	TRP	6
1	A	96	GLU	6
1	A	132	ARG	6
1	A	33	LEU	6
1	A	29	LYS	5
1	A	78	LEU	5
1	A	137	GLU	5
1	A	147	LYS	5
1	B	105	MET	5
1	B	112	GLN	5
1	B	114	LEU	5
1	B	19	THR	5
1	B	63	TYR	5
1	B	107	GLU	5
1	A	133	MET	5
1	A	66	TRP	5
1	A	102	LYS	5
1	A	125	ARG	5
1	B	153	GLU	5
1	A	54	LEU	5
1	B	116	ARG	5
1	A	17	ASP	4
1	A	109	LEU	4
1	A	139	GLU	4
1	A	158	LYS	4
1	B	71	GLN	4
1	B	154	ASN	4
1	A	39	LEU	4
1	A	47	LEU	4
1	A	97	GLU	4
1	A	122	GLU	4
1	A	152	LEU	4
1	A	12	GLU	4
1	A	14	ASP	4
1	A	156	LEU	4
1	B	13	ARG	4
1	B	53	ARG	4

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Mol	Chain	Res	Type	Models (Total)
1	B	118	GLU	4
1	A	31	GLN	4
1	A	57	LYS	4
1	A	105	MET	4
1	A	124	ARG	4
1	B	47	LEU	4
1	B	52	VAL	4
1	B	104	LYS	4
1	B	111	ILE	4
1	B	119	GLU	4
1	B	129	GLU	4
1	B	132	ARG	4
1	B	158	LYS	4
1	A	90	LYS	4
1	A	93	LYS	4
1	A	140	GLU	4
1	A	141	GLU	4
1	B	12	GLU	4
1	A	129	GLU	4
1	B	58	TRP	4
1	B	45	VAL	4
1	A	15	LEU	3
1	B	115	GLU	3
1	A	22	GLU	3
1	A	27	HIS	3
1	A	83	PHE	3
1	A	106	ARG	3
1	B	156	LEU	3
1	B	23	ARG	3
1	B	24	ILE	3
1	B	33	LEU	3
1	A	107	GLU	3
1	A	110	TRP	3
1	B	70	LEU	3
1	A	26	TYR	3
1	B	99	LEU	3
1	A	136	LEU	3
1	B	140	GLU	3
1	A	51	ASN	3
1	B	110	TRP	2
1	A	118	GLU	2
1	A	144	ASN	2

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Mol	Chain	Res	Type	Models (Total)
1	B	16	ASP	2
1	B	95	LYS	2
1	A	91	GLU	2
1	A	145	LEU	2
1	A	104	LYS	2
1	B	54	LEU	2
1	B	85	TYR	2
1	A	30	LYS	2
1	A	121	THR	2
1	B	26	TYR	2
1	B	67	ARG	2
1	A	56	ASN	2
1	A	98	GLN	2
1	A	62	TYR	2
1	A	88	SER	2
1	B	17	ASP	2
1	A	71	GLN	2
1	B	138	ASN	2
1	A	99	LEU	2
1	A	154	ASN	2
1	B	56	ASN	2
1	A	84	ILE	1
1	A	142	ILE	1
1	A	135	THR	1
1	B	144	ASN	1
1	B	106	ARG	1
1	B	40	LEU	1
1	B	41	THR	1
1	B	51	ASN	1
1	A	138	ASN	1
1	B	98	GLN	1
1	A	28	CYS	1
1	A	63	TYR	1
1	B	96	GLU	1
1	A	67	ARG	1
1	A	150	SER	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 40% for the well-defined parts and 39% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list*

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	1779
Number of shifts mapped to atoms	1779
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	154	-0.85 ± 0.17	Should be checked
$^{13}\text{C}_\beta$	145	1.26 ± 0.15	Should be checked
$^{13}\text{C}'$	146	-0.77 ± 0.13	Should be applied
^{15}N	149	0.63 ± 0.14	Should be applied

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 40%, i.e. 1735 atoms were assigned a chemical shift out of a possible 4302. 0 out of 50 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	721/1490 (48%)	289/606 (48%)	288/592 (49%)	144/292 (49%)
Sidechain	989/2592 (38%)	674/1664 (41%)	315/798 (39%)	0/130 (0%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	25/220 (11%)	23/106 (22%)	2/104 (2%)	0/10 (0%)
Overall	1735/4302 (40%)	986/2376 (41%)	605/1494 (40%)	144/432 (33%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 39%, i.e. 1770 atoms were assigned a chemical shift out of a possible 4586. 0 out of 52 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	746/1596 (47%)	297/648 (46%)	300/636 (47%)	149/312 (48%)
Sidechain	999/2750 (36%)	678/1768 (38%)	321/846 (38%)	0/136 (0%)
Aromatic	25/240 (10%)	23/116 (20%)	2/114 (2%)	0/10 (0%)
Overall	1770/4586 (39%)	998/2532 (39%)	623/1596 (39%)	149/458 (33%)

7.1.4 Statistically unusual chemical shifts [i](#)

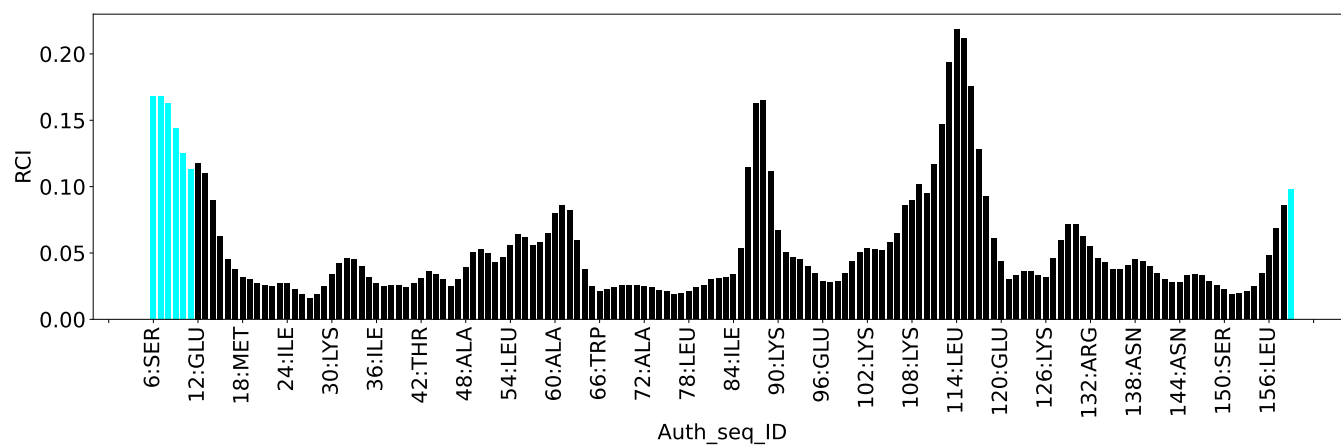
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	19	THR	HG1	4.41	0.08 – 2.19	15.5

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	2496
Intra-residue ($ i-j =0$)	932
Sequential ($ i-j =1$)	436
Medium range ($ i-j >1$ and $ i-j <5$)	608
Long range ($ i-j \geq 5$)	406
Inter-chain	114
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	506
Number of unmapped restraints	0
Number of restraints per residue	8.6
Number of long range restraints per residue ¹	1.2

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)	86.9	0.2
0.2-0.5 (Medium)	143.9	0.5
>0.5 (Large)	102.3	3.74

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)	3.8	9.7
10.0-20.0 (Medium)	0.1	13.95
>20.0 (Large)	0.4	151.32

9 Distance violation analysis ⓘ

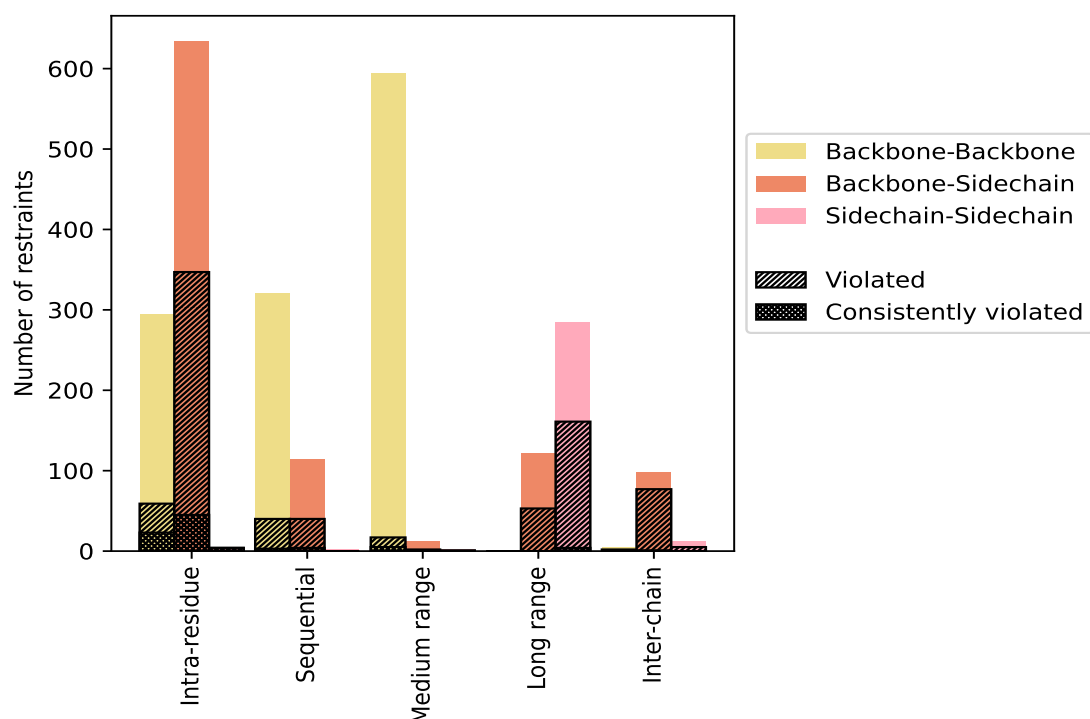
9.1 Summary of distance violations ⓘ

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.

Restraints type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue (i-j =0)	932	37.3	410	44.0	16.4	72	7.7	2.9
Backbone-Backbone	294	11.8	59	20.1	2.4	23	7.8	0.9
Backbone-Sidechain	634	25.4	347	54.7	13.9	45	7.1	1.8
Sidechain-Sidechain	4	0.2	4	100.0	0.2	4	100.0	0.2
Sequential (i-j =1)	436	17.5	80	18.3	3.2	7	1.6	0.3
Backbone-Backbone	320	12.8	40	12.5	1.6	3	0.9	0.1
Backbone-Sidechain	114	4.6	40	35.1	1.6	4	3.5	0.2
Sidechain-Sidechain	2	0.1	0	0.0	0.0	0	0.0	0.0
Medium range (i-j >1 & i-j <5)	608	24.4	20	3.3	0.8	5	0.8	0.2
Backbone-Backbone	594	23.8	17	2.9	0.7	5	0.8	0.2
Backbone-Sidechain	12	0.5	2	16.7	0.1	0	0.0	0.0
Sidechain-Sidechain	2	0.1	1	50.0	0.0	0	0.0	0.0
Long range (i-j ≥5)	406	16.3	214	52.7	8.6	4	1.0	0.2
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	122	4.9	53	43.4	2.1	0	0.0	0.0
Sidechain-Sidechain	284	11.4	161	56.7	6.5	4	1.4	0.2
Inter-chain	114	4.6	84	73.7	3.4	1	0.9	0.0
Backbone-Backbone	4	0.2	2	50.0	0.1	0	0.0	0.0
Backbone-Sidechain	98	3.9	77	78.6	3.1	1	1.0	0.0
Sidechain-Sidechain	12	0.5	5	41.7	0.2	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2496	100.0	808	32.4	32.4	89	3.6	3.6
Backbone-Backbone	1212	48.6	118	9.7	4.7	31	2.6	1.2
Backbone-Sidechain	980	39.3	519	53.0	20.8	50	5.1	2.0
Sidechain-Sidechain	304	12.2	171	56.2	6.9	8	2.6	0.3

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	198	30	8	46	32	314	0.5	2.76	0.45	0.31
2	194	30	7	56	24	311	0.43	2.99	0.37	0.32
3	188	33	7	46	20	294	0.39	1.61	0.3	0.3
4	226	33	9	96	42	406	0.54	2.9	0.49	0.36
5	201	36	9	62	23	331	0.44	2.08	0.39	0.32
6	204	34	7	78	35	358	0.5	3.04	0.43	0.34
7	187	30	10	63	42	332	0.5	2.97	0.48	0.33
8	220	31	7	68	39	365	0.53	3.06	0.48	0.34
9	210	30	8	58	34	340	0.5	3.18	0.46	0.32
10	203	29	9	69	40	350	0.54	3.6	0.56	0.32

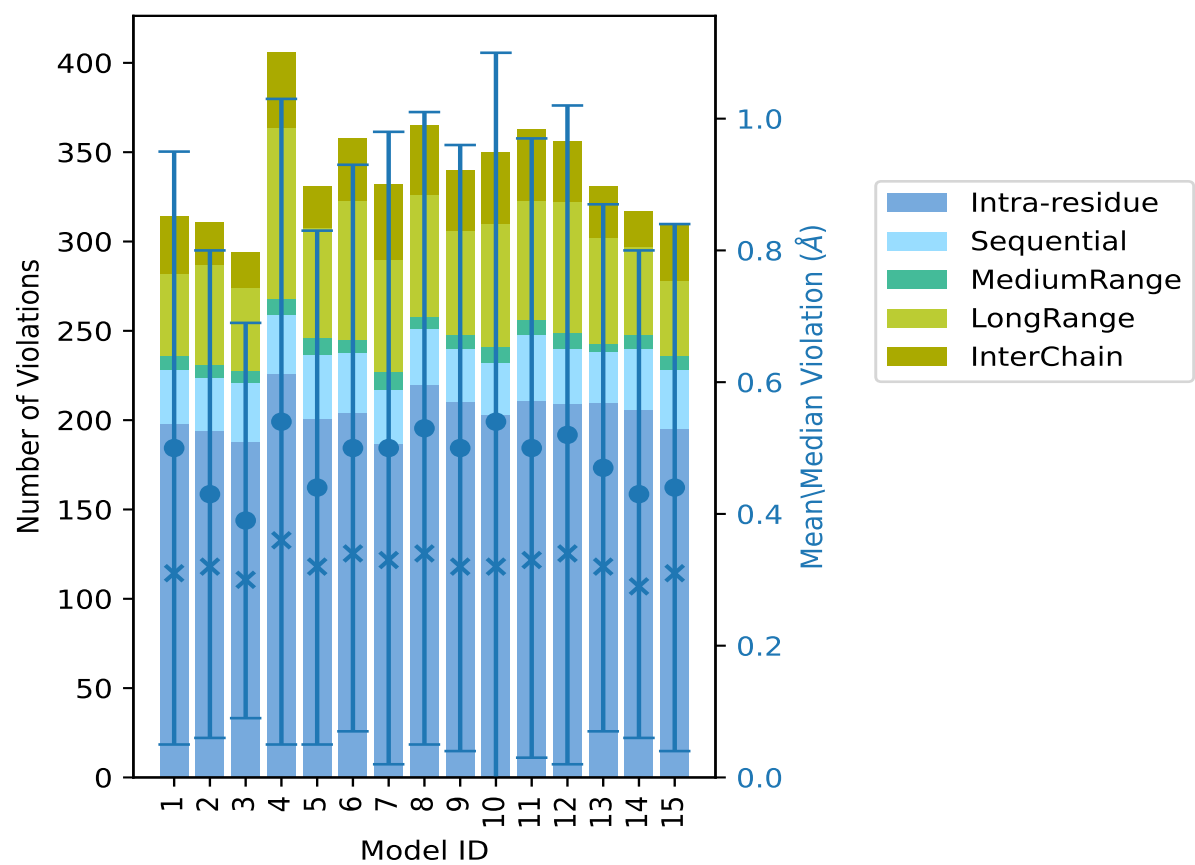
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	211	37	8	67	40	363	0.5	3.6	0.47	0.33
12	209	31	9	73	34	356	0.52	3.74	0.5	0.34
13	210	28	5	59	29	331	0.47	2.47	0.4	0.32
14	206	34	8	49	20	317	0.43	2.54	0.37	0.29
15	195	33	8	42	31	309	0.44	2.85	0.4	0.31

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

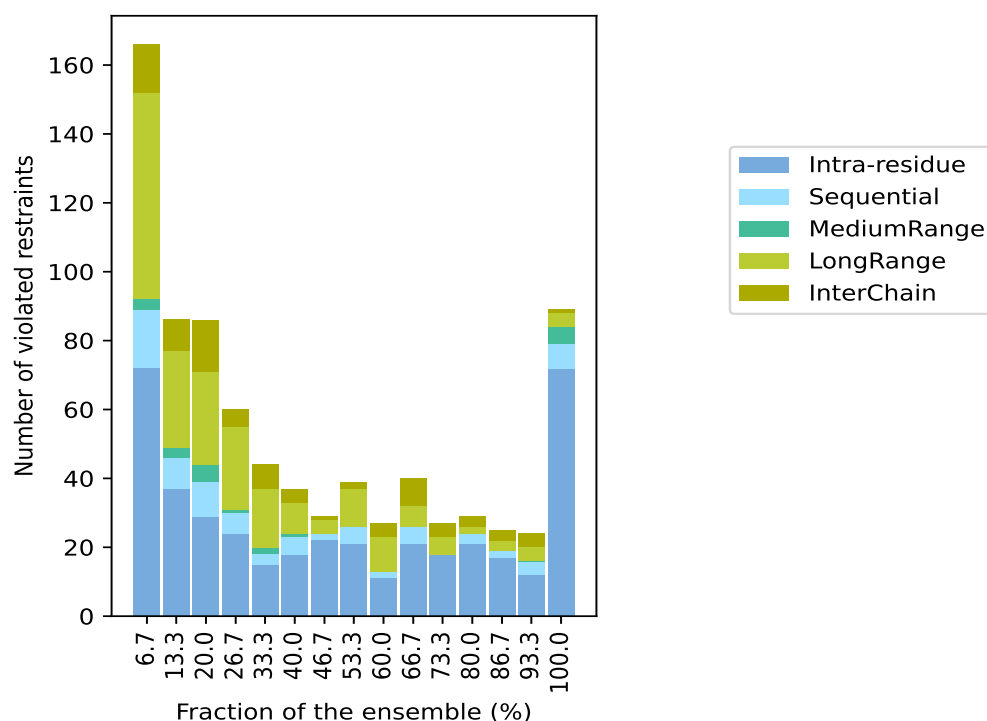
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 1688(IR:522, SQ:356, MR:588, LR:192, IC:30) restraints are 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	%
72	17	3	60	14	166	1	6.7
37	9	3	28	9	86	2	13.3
29	10	5	27	15	86	3	20.0
24	6	1	24	5	60	4	26.7
15	3	2	17	7	44	5	33.3
18	5	1	9	4	37	6	40.0
22	2	0	4	1	29	7	46.7
21	5	0	11	2	39	8	53.3
11	2	0	10	4	27	9	60.0
21	5	0	6	8	40	10	66.7
18	0	0	5	4	27	11	73.3
21	3	0	2	3	29	12	80.0
17	2	0	3	3	25	13	86.7
12	4	0	4	4	24	14	93.3
72	7	5	4	1	89	15	100.0

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

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

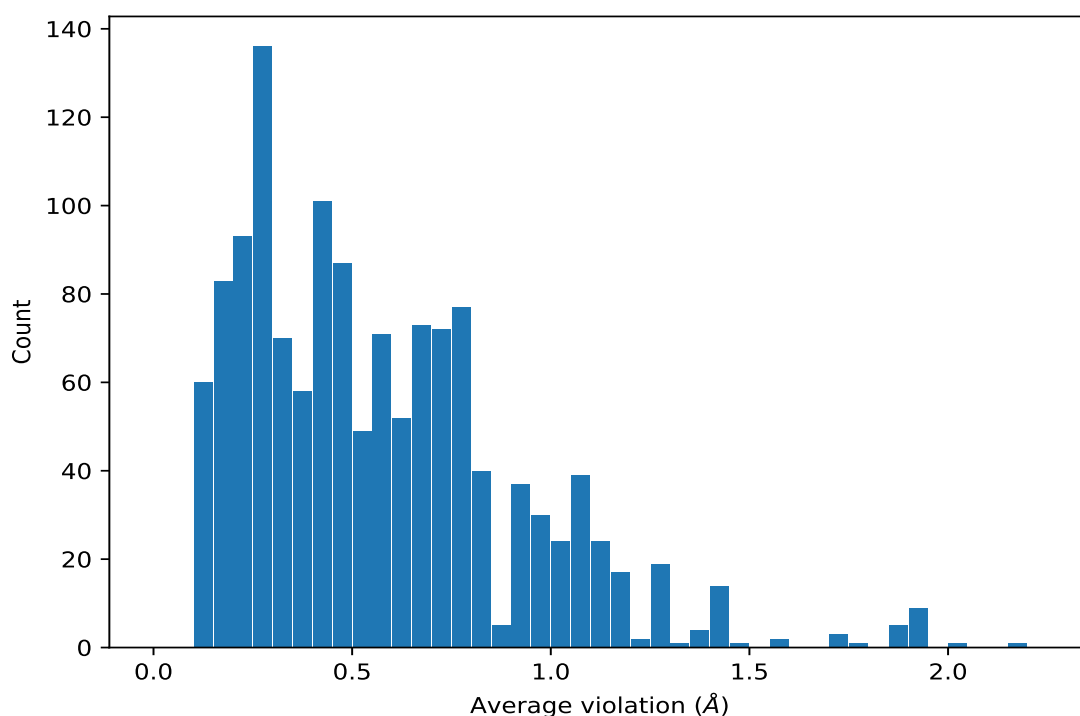
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD21	15	1.93	0.19	1.99
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD22	15	1.93	0.19	1.99
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD23	15	1.93	0.19	1.99
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD21	15	1.93	0.19	1.99
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD22	15	1.93	0.19	1.99
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD23	15	1.93	0.19	1.99
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD21	15	1.93	0.19	1.99
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD22	15	1.93	0.19	1.99
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD23	15	1.93	0.19	1.99
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD11	15	1.43	0.48	1.42
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD12	15	1.43	0.48	1.42
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD13	15	1.43	0.48	1.42
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD11	15	1.43	0.48	1.42
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD12	15	1.43	0.48	1.42
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD13	15	1.43	0.48	1.42
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD11	15	1.43	0.48	1.42

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD12	15	1.43	0.48	1.42
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD13	15	1.43	0.48	1.42
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD11	15	1.25	0.64	1.34
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD12	15	1.25	0.64	1.34
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD13	15	1.25	0.64	1.34
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD11	15	1.25	0.64	1.34
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD12	15	1.25	0.64	1.34
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD13	15	1.25	0.64	1.34
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD11	15	1.25	0.64	1.34
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD12	15	1.25	0.64	1.34
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD13	15	1.25	0.64	1.34
(1,2429)	1:97:A:GLU:HG3	1:143:B:LYS:H	15	1.06	0.65	0.95
(1,937)	1:132:A:ARG:H	1:133:A:MET:H	15	0.87	0.18	0.9
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG11	15	0.79	0.02	0.79
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG12	15	0.79	0.02	0.79
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG13	15	0.79	0.02	0.79
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG21	15	0.74	0.05	0.75
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG22	15	0.74	0.05	0.75
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG23	15	0.74	0.05	0.75
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG11	15	0.68	0.03	0.67
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG12	15	0.68	0.03	0.67
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG13	15	0.68	0.03	0.67
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG21	15	0.53	0.01	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG22	15	0.53	0.01	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG23	15	0.53	0.01	0.53
(1,636)	1:84:A:ILE:HG21	1:85:A:TYR:H	15	0.53	0.05	0.56
(1,636)	1:84:A:ILE:HG22	1:85:A:TYR:H	15	0.53	0.05	0.56
(1,636)	1:84:A:ILE:HG23	1:85:A:TYR:H	15	0.53	0.05	0.56
(1,316)	1:47:A:LEU:HB2	1:48:A:ALA:H	15	0.52	0.1	0.48
(1,316)	1:47:A:LEU:HB3	1:48:A:ALA:H	15	0.52	0.1	0.48
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG21	15	0.51	0.02	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG22	15	0.51	0.02	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG23	15	0.51	0.02	0.51
(1,129)	1:24:A:ILE:HA	1:26:A:TYR:H	15	0.51	0.21	0.42
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG21	15	0.5	0.01	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG22	15	0.5	0.01	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG23	15	0.5	0.01	0.5
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG21	15	0.48	0.02	0.47
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG22	15	0.48	0.02	0.47
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG23	15	0.48	0.02	0.47
(1,93)	1:20:A:PHE:HA	1:22:A:GLU:H	15	0.47	0.13	0.45
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG12	15	0.43	0.07	0.45

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG13	15	0.43	0.07	0.45
(1,469)	1:69:A:GLY:HA2	1:72:A:ALA:H	15	0.43	0.07	0.42
(1,1319)	1:24:B:ILE:HA	1:26:B:TYR:H	15	0.42	0.1	0.41
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG12	15	0.42	0.04	0.42
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG13	15	0.42	0.04	0.42
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD21	15	0.42	0.11	0.46
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD22	15	0.42	0.11	0.46
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD23	15	0.42	0.11	0.46
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD21	15	0.42	0.11	0.46
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD22	15	0.42	0.11	0.46
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD23	15	0.42	0.11	0.46
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD21	15	0.42	0.11	0.46
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD22	15	0.42	0.11	0.46
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD23	15	0.42	0.11	0.46
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD11	15	0.39	0.02	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD12	15	0.39	0.02	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD13	15	0.39	0.02	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG11	15	0.38	0.0	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG12	15	0.38	0.0	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG13	15	0.38	0.0	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG11	15	0.38	0.01	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG12	15	0.38	0.01	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG13	15	0.38	0.01	0.38
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD11	15	0.37	0.01	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD12	15	0.37	0.01	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD13	15	0.37	0.01	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB1	15	0.37	0.01	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB2	15	0.37	0.01	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB3	15	0.37	0.01	0.37
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG12	15	0.37	0.07	0.37
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG13	15	0.37	0.07	0.37
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG11	15	0.36	0.13	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG12	15	0.36	0.13	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG13	15	0.36	0.13	0.29
(1,781)	1:102:A:LYS:H	1:102:A:LYS:HB2	15	0.36	0.07	0.38
(1,345)	1:49:A:ALA:HB1	1:50:A:GLN:H	15	0.35	0.06	0.35
(1,345)	1:49:A:ALA:HB2	1:50:A:GLN:H	15	0.35	0.06	0.35
(1,345)	1:49:A:ALA:HB3	1:50:A:GLN:H	15	0.35	0.06	0.35
(1,439)	1:66:A:TRP:H	1:66:A:TRP:HB2	15	0.34	0.07	0.36
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB2	15	0.34	0.07	0.34
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB3	15	0.34	0.07	0.34
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB1	15	0.33	0.01	0.33

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB2	15	0.33	0.01	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB3	15	0.33	0.01	0.33
(1,1853)	1:90:B:LYS:H	1:90:B:LYS:HB2	15	0.31	0.07	0.33
(1,663)	1:90:A:LYS:H	1:90:A:LYS:HB2	15	0.31	0.08	0.31
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB1	15	0.31	0.03	0.31
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB2	15	0.31	0.03	0.31
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB3	15	0.31	0.03	0.31
(1,641)	1:85:A:TYR:H	1:86:A:GLY:H	15	0.31	0.07	0.31
(1,2181)	1:138:B:ASN:H	1:138:B:ASN:HB2	15	0.31	0.06	0.32
(1,660)	1:89:A:GLY:HA3	1:90:A:LYS:H	15	0.3	0.08	0.27
(1,1545)	1:51:B:ASN:H	1:51:B:ASN:HB2	15	0.28	0.04	0.28
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB1	15	0.28	0.05	0.27
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB2	15	0.28	0.05	0.27
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB3	15	0.28	0.05	0.27
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG11	15	0.27	0.08	0.28
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG12	15	0.27	0.08	0.28
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG13	15	0.27	0.08	0.28
(1,1283)	1:20:B:PHE:HA	1:22:B:GLU:H	15	0.27	0.08	0.28
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB1	15	0.26	0.0	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB2	15	0.26	0.0	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB3	15	0.26	0.0	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB1	15	0.26	0.0	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB2	15	0.26	0.0	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB3	15	0.26	0.0	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB1	15	0.26	0.0	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB2	15	0.26	0.0	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB3	15	0.26	0.0	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB1	15	0.26	0.01	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB2	15	0.26	0.01	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB3	15	0.26	0.01	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB1	15	0.26	0.0	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB2	15	0.26	0.0	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB3	15	0.26	0.0	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB1	15	0.26	0.04	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB2	15	0.26	0.04	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB3	15	0.26	0.04	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB1	15	0.25	0.01	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB2	15	0.25	0.01	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB3	15	0.25	0.01	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB1	15	0.25	0.0	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB2	15	0.25	0.0	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB3	15	0.25	0.0	0.25

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB1	15	0.25	0.01	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB2	15	0.25	0.01	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB3	15	0.25	0.01	0.24
(1,1412)	1:38:B:CYS:H	1:38:B:CYS:HB2	15	0.24	0.06	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB1	15	0.22	0.01	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB2	15	0.22	0.01	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB3	15	0.22	0.01	0.22
(1,1918)	1:96:B:GLU:H	1:96:B:GLU:HB2	15	0.22	0.04	0.23
(1,95)	1:21:A:GLY:H	1:21:A:GLY:HA3	15	0.21	0.0	0.21
(1,96)	1:21:A:GLY:H	1:21:A:GLY:HA3	15	0.21	0.0	0.21
(1,1402)	1:37:B:GLY:H	1:37:B:GLY:HA3	15	0.21	0.0	0.21
(1,272)	1:43:A:GLY:H	1:43:A:GLY:HA3	15	0.21	0.0	0.21
(1,845)	1:117:A:ARG:H	1:117:A:ARG:HA	15	0.2	0.04	0.22
(1,1285)	1:21:B:GLY:H	1:21:B:GLY:HA3	15	0.2	0.0	0.2
(1,1286)	1:21:B:GLY:H	1:21:B:GLY:HA3	15	0.2	0.0	0.2
(1,212)	1:37:A:GLY:H	1:37:A:GLY:HA3	15	0.2	0.0	0.2
(1,606)	1:81:A:GLY:H	1:81:A:GLY:HA3	15	0.2	0.0	0.2
(1,394)	1:55:A:GLY:H	1:55:A:GLY:HA3	15	0.2	0.01	0.2
(1,815)	1:106:A:ARG:H	1:106:A:ARG:HA	15	0.19	0.01	0.2
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG21	15	0.19	0.04	0.21
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG22	15	0.19	0.04	0.21
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG23	15	0.19	0.04	0.21
(1,656)	1:89:A:GLY:H	1:89:A:GLY:HA3	15	0.19	0.01	0.19
(1,1584)	1:55:B:GLY:H	1:55:B:GLY:HA3	15	0.19	0.01	0.2
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB1	15	0.19	0.0	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB2	15	0.19	0.0	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB3	15	0.19	0.0	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB1	15	0.19	0.0	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB2	15	0.19	0.0	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB3	15	0.19	0.0	0.19
(1,1834)	1:86:B:GLY:H	1:86:B:GLY:HA2	15	0.19	0.02	0.19
(1,378)	1:53:A:ARG:H	1:53:A:ARG:HA	15	0.19	0.01	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB1	15	0.19	0.01	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB2	15	0.19	0.01	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB3	15	0.19	0.01	0.19
(1,1462)	1:43:B:GLY:H	1:43:B:GLY:HA3	15	0.19	0.01	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB1	15	0.19	0.0	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB2	15	0.19	0.0	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB3	15	0.19	0.0	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB1	15	0.18	0.0	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB2	15	0.18	0.0	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB3	15	0.18	0.0	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,401)	1:56:A:ASN:H	1:56:A:ASN:HA	15	0.18	0.02	0.18
(1,811)	1:105:A:MET:H	1:105:A:MET:HB2	15	0.18	0.04	0.17
(1,2005)	1:106:B:ARG:H	1:106:B:ARG:HA	15	0.17	0.01	0.18
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB1	15	0.17	0.0	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB2	15	0.17	0.0	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB3	15	0.17	0.0	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB1	15	0.17	0.01	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB2	15	0.17	0.01	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB3	15	0.17	0.01	0.17
(1,2007)	1:107:B:GLU:H	1:107:B:GLU:HA	15	0.17	0.03	0.17
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB1	15	0.16	0.01	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB2	15	0.16	0.01	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB3	15	0.16	0.01	0.16
(1,362)	1:52:A:VAL:H	1:52:A:VAL:HA	15	0.16	0.02	0.16
(1,1846)	1:89:B:GLY:H	1:89:B:GLY:HA3	15	0.14	0.01	0.15
(1,561)	1:77:A:ALA:H	1:77:A:ALA:HA	15	0.14	0.03	0.13
(1,632)	1:84:A:ILE:H	1:84:A:ILE:HB	15	0.13	0.0	0.13
(1,1796)	1:81:B:GLY:H	1:81:B:GLY:HA3	15	0.12	0.0	0.12
(1,1167)	1:155:A:LYS:H	1:155:A:LYS:HE2	14	2.19	0.99	2.62
(1,2468)	1:93:A:LYS:H	1:147:B:LYS:HB3	14	1.87	0.85	1.98
(1,2476)	1:93:A:LYS:H	1:147:B:LYS:HD3	14	1.42	0.71	1.52
(1,2475)	1:147:A:LYS:HD3	1:93:B:LYS:H	14	1.11	0.48	1.26
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG21	14	1.1	0.39	1.19
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG22	14	1.1	0.39	1.19
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG23	14	1.1	0.39	1.19
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG21	14	1.1	0.39	1.19
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG22	14	1.1	0.39	1.19
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG23	14	1.1	0.39	1.19
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG21	14	1.1	0.39	1.19
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG22	14	1.1	0.39	1.19
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG23	14	1.1	0.39	1.19
(1,540)	1:75:A:LEU:HD21	1:95:A:LYS:HD3	14	1.05	0.29	1.11
(1,540)	1:75:A:LEU:HD22	1:95:A:LYS:HD3	14	1.05	0.29	1.11
(1,540)	1:75:A:LEU:HD23	1:95:A:LYS:HD3	14	1.05	0.29	1.11
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD21	14	0.9	0.45	0.88
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD22	14	0.9	0.45	0.88
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD23	14	0.9	0.45	0.88
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD21	14	0.9	0.45	0.88
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD22	14	0.9	0.45	0.88
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD23	14	0.9	0.45	0.88
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD21	14	0.9	0.45	0.88
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD22	14	0.9	0.45	0.88

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD23	14	0.9	0.45	0.88
(1,622)	1:82:A:SER:H	1:83:A:PHE:HB3	14	0.7	0.28	0.76
(1,676)	1:91:A:GLU:H	1:91:A:GLU:HG2	14	0.7	0.22	0.72
(1,2431)	1:97:A:GLU:HG2	1:143:B:LYS:H	14	0.64	0.32	0.56
(1,887)	1:123:A:ALA:HB1	1:124:A:ARG:H	14	0.64	0.12	0.62
(1,887)	1:123:A:ALA:HB2	1:124:A:ARG:H	14	0.64	0.12	0.62
(1,887)	1:123:A:ALA:HB3	1:124:A:ARG:H	14	0.64	0.12	0.62
(1,335)	1:48:A:ALA:HB1	1:18:A:MET:HG2	14	0.6	0.33	0.52
(1,335)	1:48:A:ALA:HB2	1:18:A:MET:HG2	14	0.6	0.33	0.52
(1,335)	1:48:A:ALA:HB3	1:18:A:MET:HG2	14	0.6	0.33	0.52
(1,1419)	1:39:B:LEU:H	1:39:B:LEU:HB2	14	0.36	0.06	0.36
(1,1783)	1:79:B:VAL:HG11	1:80:B:ALA:H	14	0.35	0.04	0.35
(1,1783)	1:79:B:VAL:HG12	1:80:B:ALA:H	14	0.35	0.04	0.35
(1,1783)	1:79:B:VAL:HG13	1:80:B:ALA:H	14	0.35	0.04	0.35
(1,957)	1:135:A:THR:H	1:135:A:THR:HB	14	0.33	0.05	0.34
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG12	14	0.31	0.15	0.29
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG13	14	0.31	0.15	0.29
(1,1829)	1:85:B:TYR:H	1:85:B:TYR:HB2	14	0.29	0.06	0.29
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG11	14	0.29	0.05	0.28
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG12	14	0.29	0.05	0.28
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG13	14	0.29	0.05	0.28
(1,485)	1:71:A:GLN:HB2	1:72:A:ALA:H	14	0.28	0.05	0.29
(1,1620)	1:64:B:PHE:H	1:64:B:PHE:HB2	14	0.26	0.09	0.29
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB2	14	0.25	0.07	0.26
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB3	14	0.25	0.07	0.26
(1,2347)	1:154:B:ASN:H	1:154:B:ASN:HB2	14	0.24	0.07	0.27
(1,644)	1:86:A:GLY:H	1:86:A:GLY:HA2	14	0.19	0.01	0.2
(1,817)	1:107:A:GLU:H	1:107:A:GLU:HA	14	0.15	0.02	0.15
(1,2474)	1:93:A:LYS:H	1:147:B:LYS:HG2	13	1.76	0.95	2.0
(1,1166)	1:155:A:LYS:H	1:155:A:LYS:HE3	13	1.35	0.48	1.42
(1,163)	1:25:A:ILE:HG21	1:83:A:PHE:HZ	13	1.2	0.42	1.23
(1,163)	1:25:A:ILE:HG22	1:83:A:PHE:HZ	13	1.2	0.42	1.23
(1,163)	1:25:A:ILE:HG23	1:83:A:PHE:HZ	13	1.2	0.42	1.23
(1,2430)	1:143:A:LYS:H	1:97:B:GLU:HG3	13	1.2	0.58	1.21
(1,2127)	1:132:B:ARG:H	1:133:B:MET:H	13	0.92	0.13	0.92
(1,2432)	1:143:A:LYS:H	1:97:B:GLU:HG2	13	0.64	0.48	0.52
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD11	13	0.6	0.25	0.59
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD12	13	0.6	0.25	0.59
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD13	13	0.6	0.25	0.59
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD11	13	0.6	0.25	0.59
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD12	13	0.6	0.25	0.59
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD13	13	0.6	0.25	0.59

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD11	13	0.6	0.25	0.59
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD12	13	0.6	0.25	0.59
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD13	13	0.6	0.25	0.59
(1,1097)	1:148:A:GLU:H	1:148:A:GLU:HG2	13	0.54	0.32	0.47
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD11	13	0.46	0.08	0.5
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD12	13	0.46	0.08	0.5
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD13	13	0.46	0.08	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD11	13	0.46	0.08	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD12	13	0.46	0.08	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD13	13	0.46	0.08	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD11	13	0.46	0.08	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD12	13	0.46	0.08	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD13	13	0.46	0.08	0.5
(1,639)	1:85:A:TYR:H	1:85:A:TYR:HB2	13	0.36	0.09	0.4
(1,716)	1:95:A:LYS:H	1:95:A:LYS:HB2	13	0.33	0.09	0.38
(1,865)	1:120:A:GLU:H	1:120:A:GLU:HB2	13	0.32	0.08	0.32
(1,430)	1:64:A:PHE:H	1:64:A:PHE:HB2	13	0.3	0.1	0.36
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG21	13	0.29	0.1	0.32
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG22	13	0.29	0.1	0.32
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG23	13	0.29	0.1	0.32
(1,916)	1:127:A:ARG:H	1:127:A:ARG:HB2	13	0.28	0.09	0.31
(1,991)	1:138:A:ASN:H	1:138:A:ASN:HB2	13	0.27	0.08	0.26
(1,2116)	1:129:B:GLU:H	1:129:B:GLU:HB2	13	0.27	0.05	0.28
(1,1040)	1:143:A:LYS:H	1:143:A:LYS:HB2	13	0.27	0.1	0.29
(1,2001)	1:105:B:MET:H	1:105:B:MET:HB2	13	0.24	0.04	0.26
(1,1051)	1:144:A:ASN:H	1:144:A:ASN:HB2	13	0.24	0.08	0.21
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG21	13	0.23	0.07	0.23
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG22	13	0.23	0.07	0.23
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG23	13	0.23	0.07	0.23
(1,229)	1:39:A:LEU:H	1:39:A:LEU:HB2	13	0.22	0.11	0.19
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD11	13	0.22	0.06	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD12	13	0.22	0.06	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD13	13	0.22	0.06	0.22
(1,2038)	1:117:B:ARG:H	1:118:B:GLU:H	13	0.21	0.02	0.21
(1,2188)	1:139:B:GLU:H	1:139:B:GLU:HB2	13	0.16	0.02	0.16
(1,2482)	1:93:A:LYS:H	1:147:B:LYS:HE2	12	2.01	1.04	2.04
(1,2470)	1:93:A:LYS:H	1:147:B:LYS:HB2	12	1.21	0.54	1.23
(1,576)	1:78:A:LEU:HD11	1:79:A:VAL:H	12	1.02	0.12	0.96
(1,576)	1:78:A:LEU:HD12	1:79:A:VAL:H	12	1.02	0.12	0.96
(1,576)	1:78:A:LEU:HD13	1:79:A:VAL:H	12	1.02	0.12	0.96
(1,478)	1:71:A:GLN:H	1:71:A:GLN:HG3	12	0.97	0.26	1.08
(1,570)	1:78:A:LEU:H	1:78:A:LEU:HB2	12	0.76	0.1	0.78

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2447)	1:100:A:LYS:HE2	1:139:B:GLU:H	12	0.75	0.48	0.56
(1,1136)	1:152:A:LEU:H	1:152:A:LEU:HG	12	0.73	0.26	0.83
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB1	12	0.72	0.43	0.72
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB2	12	0.72	0.43	0.72
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB3	12	0.72	0.43	0.72
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB1	12	0.72	0.43	0.72
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB2	12	0.72	0.43	0.72
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB3	12	0.72	0.43	0.72
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB1	12	0.72	0.43	0.72
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB2	12	0.72	0.43	0.72
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB3	12	0.72	0.43	0.72
(1,417)	1:59:A:LYS:HG2	1:60:A:ALA:H	12	0.7	0.45	0.58
(1,3)	1:12:A:GLU:H	1:12:A:GLU:HB2	12	0.63	0.18	0.64
(1,739)	1:97:A:GLU:H	1:97:A:GLU:HG2	12	0.57	0.27	0.52
(1,940)	1:133:A:MET:H	1:133:A:MET:HB2	12	0.55	0.18	0.52
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG21	12	0.46	0.09	0.5
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG22	12	0.46	0.09	0.5
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG23	12	0.46	0.09	0.5
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG21	12	0.46	0.09	0.5
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG22	12	0.46	0.09	0.5
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG23	12	0.46	0.09	0.5
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG21	12	0.46	0.09	0.5
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG22	12	0.46	0.09	0.5
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG23	12	0.46	0.09	0.5
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG21	12	0.31	0.06	0.32
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG22	12	0.31	0.06	0.32
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG23	12	0.31	0.06	0.32
(1,1173)	1:156:A:LEU:H	1:156:A:LEU:HB2	12	0.3	0.1	0.32
(1,2319)	1:151:B:ASP:H	1:151:B:ASP:HB2	12	0.3	0.08	0.33
(1,728)	1:96:A:GLU:H	1:96:A:GLU:HB2	12	0.3	0.08	0.32
(1,772)	1:101:A:GLU:H	1:101:A:GLU:HB2	12	0.29	0.04	0.28
(1,1906)	1:95:B:LYS:H	1:95:B:LYS:HB2	12	0.28	0.11	0.24
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB2	12	0.28	0.05	0.28
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB3	12	0.28	0.05	0.28
(1,846)	1:117:A:ARG:H	1:117:A:ARG:HB2	12	0.27	0.1	0.28
(1,38)	1:17:A:ASP:H	1:17:A:ASP:HB2	12	0.27	0.07	0.27
(1,1058)	1:145:A:LEU:H	1:145:A:LEU:HB2	12	0.25	0.08	0.22
(1,355)	1:51:A:ASN:H	1:51:A:ASN:HB2	12	0.24	0.09	0.26
(1,1806)	1:82:B:SER:H	1:82:B:SER:HB2	12	0.23	0.06	0.24
(1,1074)	1:146:A:GLU:H	1:146:A:GLU:HB2	12	0.22	0.07	0.22
(1,1298)	1:22:B:GLU:H	1:23:B:ARG:H	12	0.21	0.04	0.22
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB2	12	0.17	0.01	0.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB3	12	0.17	0.01	0.17
(1,451)	1:68:A:VAL:H	1:68:A:VAL:HB	12	0.13	0.0	0.13
(1,2446)	1:139:A:GLU:H	1:100:B:LYS:HE3	11	1.49	0.87	1.28
(1,2454)	1:96:A:GLU:H	1:143:B:LYS:HD2	11	1.26	0.63	1.16
(1,164)	1:25:A:ILE:HG21	1:83:A:PHE:HE2	11	1.02	0.57	1.06
(1,164)	1:25:A:ILE:HG22	1:83:A:PHE:HE2	11	1.02	0.57	1.06
(1,164)	1:25:A:ILE:HG23	1:83:A:PHE:HE2	11	1.02	0.57	1.06
(1,966)	1:135:A:THR:HG21	1:17:A:ASP:HB3	11	0.85	0.34	0.81
(1,966)	1:135:A:THR:HG22	1:17:A:ASP:HB3	11	0.85	0.34	0.81
(1,966)	1:135:A:THR:HG23	1:17:A:ASP:HB3	11	0.85	0.34	0.81
(1,666)	1:90:A:LYS:H	1:90:A:LYS:HD2	11	0.82	0.36	1.01
(1,718)	1:95:A:LYS:H	1:95:A:LYS:HD3	11	0.7	0.27	0.86
(1,539)	1:75:A:LEU:HD21	1:95:A:LYS:HG2	11	0.68	0.39	0.66
(1,539)	1:75:A:LEU:HD22	1:95:A:LYS:HG2	11	0.68	0.39	0.66
(1,539)	1:75:A:LEU:HD23	1:95:A:LYS:HG2	11	0.68	0.39	0.66
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD11	11	0.67	0.25	0.75
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD12	11	0.67	0.25	0.75
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD13	11	0.67	0.25	0.75
(1,2403)	1:93:A:LYS:HB2	1:147:B:LYS:H	11	0.64	0.38	0.65
(1,2467)	1:147:A:LYS:HB3	1:93:B:LYS:H	11	0.63	0.3	0.64
(1,70)	1:19:A:THR:H	1:19:A:THR:HG21	11	0.6	0.05	0.59
(1,70)	1:19:A:THR:H	1:19:A:THR:HG22	11	0.6	0.05	0.59
(1,70)	1:19:A:THR:H	1:19:A:THR:HG23	11	0.6	0.05	0.59
(1,413)	1:59:A:LYS:H	1:59:A:LYS:HB2	11	0.59	0.21	0.6
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD21	11	0.57	0.32	0.44
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD22	11	0.57	0.32	0.44
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD23	11	0.57	0.32	0.44
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD21	11	0.57	0.32	0.44
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD22	11	0.57	0.32	0.44
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD23	11	0.57	0.32	0.44
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD21	11	0.57	0.32	0.44
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD22	11	0.57	0.32	0.44
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD23	11	0.57	0.32	0.44
(1,168)	1:26:A:TYR:H	1:26:A:TYR:HD1	11	0.49	0.19	0.51
(1,813)	1:105:A:MET:H	1:105:A:MET:HG2	11	0.46	0.1	0.43
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB1	11	0.45	0.11	0.5
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB2	11	0.45	0.11	0.5
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB3	11	0.45	0.11	0.5
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB1	11	0.45	0.11	0.5
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB2	11	0.45	0.11	0.5
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB3	11	0.45	0.11	0.5
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB1	11	0.45	0.11	0.5

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB2	11	0.45	0.11	0.5
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB3	11	0.45	0.11	0.5
(1,2055)	1:120:B:GLU:H	1:120:B:GLU:HB2	11	0.29	0.08	0.33
(1,1962)	1:101:B:GLU:H	1:101:B:GLU:HB2	11	0.28	0.06	0.29
(1,944)	1:134:A:LYS:H	1:134:A:LYS:HB2	11	0.27	0.1	0.29
(1,1228)	1:17:B:ASP:H	1:17:B:ASP:HB2	11	0.27	0.07	0.29
(1,2241)	1:144:B:ASN:H	1:144:B:ASN:HB2	11	0.25	0.08	0.25
(1,2363)	1:156:B:LEU:H	1:156:B:LEU:HB2	11	0.23	0.06	0.23
(1,115)	1:23:A:ARG:H	1:23:A:ARG:HG3	11	0.21	0.08	0.23
(1,834)	1:113:A:GLU:H	1:113:A:GLU:HA	11	0.2	0.17	0.16
(1,1599)	1:58:B:TRP:H	1:58:B:TRP:HB3	11	0.19	0.06	0.18
(1,823)	1:109:A:LEU:H	1:109:A:LEU:HA	11	0.15	0.03	0.14
(1,1553)	1:52:B:VAL:H	1:52:B:VAL:HB	11	0.12	0.01	0.12
(1,2448)	1:139:A:GLU:H	1:100:B:LYS:HE2	10	1.88	0.82	1.94
(1,2440)	1:140:A:GLU:H	1:100:B:LYS:HE2	10	1.55	0.66	1.56
(1,2484)	1:94:A:ALA:H	1:147:B:LYS:HE3	10	1.44	0.51	1.43
(1,2480)	1:93:A:LYS:H	1:147:B:LYS:HE3	10	1.32	0.42	1.37
(1,665)	1:90:A:LYS:H	1:90:A:LYS:HD3	10	1.27	0.48	1.33
(1,2438)	1:140:A:GLU:H	1:100:B:LYS:HE3	10	1.15	0.73	1.06
(1,839)	1:114:A:LEU:H	1:114:A:LEU:HG	10	1.13	0.39	1.27
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD11	10	1.07	0.56	1.2
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD12	10	1.07	0.56	1.2
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD13	10	1.07	0.56	1.2
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD11	10	1.07	0.56	1.2
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD12	10	1.07	0.56	1.2
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD13	10	1.07	0.56	1.2
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD11	10	1.07	0.56	1.2
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD12	10	1.07	0.56	1.2
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD13	10	1.07	0.56	1.2
(1,322)	1:47:A:LEU:HD21	1:138:A:ASN:HB3	10	1.06	0.34	1.13
(1,322)	1:47:A:LEU:HD22	1:138:A:ASN:HB3	10	1.06	0.34	1.13
(1,322)	1:47:A:LEU:HD23	1:138:A:ASN:HB3	10	1.06	0.34	1.13
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD11	10	1.06	0.33	1.1
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD12	10	1.06	0.33	1.1
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD13	10	1.06	0.33	1.1
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD11	10	1.06	0.33	1.1
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD12	10	1.06	0.33	1.1
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD13	10	1.06	0.33	1.1
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD11	10	1.06	0.33	1.1
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD12	10	1.06	0.33	1.1
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD13	10	1.06	0.33	1.1
(1,2453)	1:143:A:LYS:HD2	1:96:B:GLU:H	10	1.03	0.74	0.72

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,334)	1:48:A:ALA:HB1	1:18:A:MET:HG3	10	0.85	0.39	0.93
(1,334)	1:48:A:ALA:HB2	1:18:A:MET:HG3	10	0.85	0.39	0.93
(1,334)	1:48:A:ALA:HB3	1:18:A:MET:HG3	10	0.85	0.39	0.93
(1,416)	1:59:A:LYS:HB2	1:60:A:ALA:H	10	0.81	0.27	0.86
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB1	10	0.77	0.44	0.72
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB2	10	0.77	0.44	0.72
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB3	10	0.77	0.44	0.72
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB1	10	0.77	0.44	0.72
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB2	10	0.77	0.44	0.72
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB3	10	0.77	0.44	0.72
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB1	10	0.77	0.44	0.72
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB2	10	0.77	0.44	0.72
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB3	10	0.77	0.44	0.72
(1,2439)	1:100:A:LYS:HE2	1:140:B:GLU:H	10	0.69	0.34	0.56
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD11	10	0.66	0.36	0.57
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD12	10	0.66	0.36	0.57
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD13	10	0.66	0.36	0.57
(1,2491)	1:150:A:SER:HB3	1:90:B:LYS:H	10	0.66	0.35	0.55
(1,649)	1:87:A:THR:H	1:88:A:SER:H	10	0.62	0.29	0.8
(1,946)	1:134:A:LYS:H	1:134:A:LYS:HG2	10	0.61	0.34	0.54
(1,729)	1:96:A:GLU:H	1:96:A:GLU:HG3	10	0.6	0.3	0.56
(1,1193)	1:12:B:GLU:H	1:12:B:GLU:HB2	10	0.58	0.17	0.64
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG21	10	0.5	0.02	0.5
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG22	10	0.5	0.02	0.5
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG23	10	0.5	0.02	0.5
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD11	10	0.49	0.03	0.5
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD12	10	0.49	0.03	0.5
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD13	10	0.49	0.03	0.5
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD11	10	0.49	0.03	0.5
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD12	10	0.49	0.03	0.5
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD13	10	0.49	0.03	0.5
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD11	10	0.49	0.03	0.5
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD12	10	0.49	0.03	0.5
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD13	10	0.49	0.03	0.5
(1,925)	1:129:A:GLU:H	1:129:A:GLU:HB3	10	0.47	0.14	0.42
(1,653)	1:88:A:SER:H	1:88:A:SER:HB3	10	0.41	0.13	0.45
(1,1095)	1:148:A:GLU:H	1:148:A:GLU:HB2	10	0.36	0.06	0.37
(1,593)	1:79:A:VAL:HG11	1:80:A:ALA:H	10	0.33	0.06	0.32
(1,593)	1:79:A:VAL:HG12	1:80:A:ALA:H	10	0.33	0.06	0.32
(1,593)	1:79:A:VAL:HG13	1:80:A:ALA:H	10	0.33	0.06	0.32
(1,2099)	1:126:B:LYS:H	1:126:B:LYS:HB2	10	0.31	0.08	0.32
(1,642)	1:85:A:TYR:HB3	1:86:A:GLY:H	10	0.31	0.08	0.29

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,237)	1:40:A:LEU:H	1:40:A:LEU:HB2	10	0.29	0.13	0.34
(1,228)	1:39:A:LEU:H	1:39:A:LEU:HB3	10	0.28	0.05	0.28
(1,1135)	1:152:A:LEU:H	1:152:A:LEU:HB3	10	0.28	0.17	0.21
(1,2249)	1:145:B:LEU:H	1:145:B:LEU:HG	10	0.27	0.09	0.26
(1,1157)	1:154:A:ASN:H	1:154:A:ASN:HB2	10	0.26	0.09	0.23
(1,1971)	1:102:B:LYS:H	1:102:B:LYS:HB2	10	0.26	0.09	0.24
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD11	10	0.24	0.08	0.26
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD12	10	0.24	0.08	0.26
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD13	10	0.24	0.08	0.26
(1,1387)	1:33:B:LEU:H	1:33:B:LEU:HB3	10	0.22	0.07	0.22
(1,1388)	1:33:B:LEU:H	1:33:B:LEU:HB3	10	0.22	0.07	0.22
(1,222)	1:38:A:CYS:H	1:38:A:CYS:HB2	10	0.18	0.05	0.2
(1,397)	1:55:A:GLY:HA3	1:56:A:ASN:H	10	0.17	0.07	0.15
(1,1115)	1:149:A:LEU:HD11	1:28:A:CYS:HA	9	1.26	0.72	1.47
(1,1115)	1:149:A:LEU:HD12	1:28:A:CYS:HA	9	1.26	0.72	1.47
(1,1115)	1:149:A:LEU:HD13	1:28:A:CYS:HA	9	1.26	0.72	1.47
(1,2472)	1:93:A:LYS:H	1:147:B:LYS:HG3	9	1.25	0.76	1.12
(1,890)	1:124:A:ARG:H	1:124:A:ARG:HB2	9	1.19	0.18	1.22
(1,2452)	1:137:A:GLU:H	1:104:B:LYS:HE2	9	0.96	0.49	1.06
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG12	9	0.83	0.11	0.85
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG13	9	0.83	0.11	0.85
(1,694)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	9	0.76	0.46	0.64
(1,694)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	9	0.76	0.46	0.64
(1,694)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	9	0.76	0.46	0.64
(1,696)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	9	0.76	0.46	0.64
(1,696)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	9	0.76	0.46	0.64
(1,696)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	9	0.76	0.46	0.64
(1,55)	1:18:A:MET:HE1	1:48:A:ALA:HA	9	0.76	0.68	0.37
(1,55)	1:18:A:MET:HE2	1:48:A:ALA:HA	9	0.76	0.68	0.37
(1,55)	1:18:A:MET:HE3	1:48:A:ALA:HA	9	0.76	0.68	0.37
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG11	9	0.75	0.52	0.7
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG12	9	0.75	0.52	0.7
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG13	9	0.75	0.52	0.7
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG11	9	0.75	0.52	0.7
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG12	9	0.75	0.52	0.7
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG13	9	0.75	0.52	0.7
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG11	9	0.75	0.52	0.7
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG12	9	0.75	0.52	0.7
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG13	9	0.75	0.52	0.7
(1,250)	1:40:A:LEU:HD11	1:145:A:LEU:HB3	9	0.73	0.32	0.78
(1,250)	1:40:A:LEU:HD12	1:145:A:LEU:HB3	9	0.73	0.32	0.78
(1,250)	1:40:A:LEU:HD13	1:145:A:LEU:HB3	9	0.73	0.32	0.78

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2433)	1:97:A:GLU:HG3	1:144:B:ASN:H	9	0.7	0.43	0.58
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD11	9	0.64	0.13	0.68
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD12	9	0.64	0.13	0.68
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD13	9	0.64	0.13	0.68
(1,165)	1:25:A:ILE:HG21	1:83:A:PHE:HE1	9	0.61	0.45	0.43
(1,165)	1:25:A:ILE:HG22	1:83:A:PHE:HE1	9	0.61	0.45	0.43
(1,165)	1:25:A:ILE:HG23	1:83:A:PHE:HE1	9	0.61	0.45	0.43
(1,1070)	1:145:A:LEU:HD21	1:40:A:LEU:HA	9	0.56	0.24	0.56
(1,1070)	1:145:A:LEU:HD22	1:40:A:LEU:HA	9	0.56	0.24	0.56
(1,1070)	1:145:A:LEU:HD23	1:40:A:LEU:HA	9	0.56	0.24	0.56
(1,1017)	1:141:A:GLU:H	1:141:A:GLU:HG3	9	0.55	0.22	0.53
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD11	9	0.53	0.15	0.56
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD12	9	0.53	0.15	0.56
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD13	9	0.53	0.15	0.56
(1,1245)	1:18:B:MET:HE1	1:48:B:ALA:HA	9	0.47	0.26	0.42
(1,1245)	1:18:B:MET:HE2	1:48:B:ALA:HA	9	0.47	0.26	0.42
(1,1245)	1:18:B:MET:HE3	1:48:B:ALA:HA	9	0.47	0.26	0.42
(1,1059)	1:145:A:LEU:H	1:145:A:LEU:HG	9	0.43	0.33	0.26
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB1	9	0.42	0.12	0.49
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB2	9	0.42	0.12	0.49
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB3	9	0.42	0.12	0.49
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB1	9	0.42	0.12	0.49
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB2	9	0.42	0.12	0.49
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB3	9	0.42	0.12	0.49
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB1	9	0.42	0.12	0.49
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB2	9	0.42	0.12	0.49
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB3	9	0.42	0.12	0.49
(1,2445)	1:100:A:LYS:HE3	1:139:B:GLU:H	9	0.41	0.22	0.48
(1,116)	1:23:A:ARG:H	1:23:A:ARG:HG2	9	0.41	0.35	0.27
(1,1826)	1:84:B:ILE:HG21	1:85:B:TYR:H	9	0.4	0.07	0.41
(1,1826)	1:84:B:ILE:HG22	1:85:B:TYR:H	9	0.4	0.07	0.41
(1,1826)	1:84:B:ILE:HG23	1:85:B:TYR:H	9	0.4	0.07	0.41
(1,425)	1:61:A:GLN:H	1:62:A:TYR:H	9	0.37	0.21	0.32
(1,6)	1:13:A:ARG:H	1:13:A:ARG:HB2	9	0.24	0.07	0.23
(1,2068)	1:122:B:GLU:H	1:122:B:GLU:HB2	9	0.21	0.09	0.19
(1,2230)	1:143:B:LYS:H	1:143:B:LYS:HB2	9	0.21	0.08	0.19
(1,652)	1:88:A:SER:H	1:88:A:SER:HB2	9	0.15	0.04	0.14
(1,697)	1:92:A:LEU:HD21	1:26:A:TYR:HE1	8	1.09	0.52	1.17
(1,697)	1:92:A:LEU:HD22	1:26:A:TYR:HE1	8	1.09	0.52	1.17
(1,697)	1:92:A:LEU:HD23	1:26:A:TYR:HE1	8	1.09	0.52	1.17
(1,1730)	1:75:B:LEU:HD21	1:95:B:LYS:HD3	8	1.02	0.45	1.19
(1,1730)	1:75:B:LEU:HD22	1:95:B:LYS:HD3	8	1.02	0.45	1.19

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1730)	1:75:B:LEU:HD23	1:95:B:LYS:HD3	8	1.02	0.45	1.19
(1,247)	1:40:A:LEU:HD21	1:28:A:CYS:HB2	8	1.02	0.45	1.14
(1,247)	1:40:A:LEU:HD22	1:28:A:CYS:HB2	8	1.02	0.45	1.14
(1,247)	1:40:A:LEU:HD23	1:28:A:CYS:HB2	8	1.02	0.45	1.14
(1,695)	1:92:A:LEU:HD21	1:83:A:PHE:HE2	8	0.96	0.54	1.02
(1,695)	1:92:A:LEU:HD22	1:83:A:PHE:HE2	8	0.96	0.54	1.02
(1,695)	1:92:A:LEU:HD23	1:83:A:PHE:HE2	8	0.96	0.54	1.02
(1,1353)	1:25:B:ILE:HG21	1:83:B:PHE:HZ	8	0.95	0.46	1.11
(1,1353)	1:25:B:ILE:HG22	1:83:B:PHE:HZ	8	0.95	0.46	1.11
(1,1353)	1:25:B:ILE:HG23	1:83:B:PHE:HZ	8	0.95	0.46	1.11
(1,650)	1:87:A:THR:HG21	1:88:A:SER:H	8	0.76	0.54	0.54
(1,650)	1:87:A:THR:HG22	1:88:A:SER:H	8	0.76	0.54	0.54
(1,650)	1:87:A:THR:HG23	1:88:A:SER:H	8	0.76	0.54	0.54
(1,25)	1:15:A:LEU:HD11	1:103:A:ALA:HA	8	0.74	0.46	0.7
(1,25)	1:15:A:LEU:HD12	1:103:A:ALA:HA	8	0.74	0.46	0.7
(1,25)	1:15:A:LEU:HD13	1:103:A:ALA:HA	8	0.74	0.46	0.7
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD11	8	0.68	0.45	0.51
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD12	8	0.68	0.45	0.51
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD13	8	0.68	0.45	0.51
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD11	8	0.68	0.45	0.51
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD12	8	0.68	0.45	0.51
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD13	8	0.68	0.45	0.51
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD11	8	0.68	0.45	0.51
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD12	8	0.68	0.45	0.51
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD13	8	0.68	0.45	0.51
(1,967)	1:135:A:THR:HG21	1:17:A:ASP:HB2	8	0.66	0.35	0.67
(1,967)	1:135:A:THR:HG22	1:17:A:ASP:HB2	8	0.66	0.35	0.67
(1,967)	1:135:A:THR:HG23	1:17:A:ASP:HB2	8	0.66	0.35	0.67
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD11	8	0.66	0.2	0.73
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD12	8	0.66	0.2	0.73
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD13	8	0.66	0.2	0.73
(1,106)	1:22:A:GLU:H	1:22:A:GLU:HG3	8	0.64	0.12	0.64
(1,107)	1:22:A:GLU:H	1:22:A:GLU:HG3	8	0.64	0.12	0.64
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD11	8	0.63	0.26	0.75
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD12	8	0.63	0.26	0.75
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD13	8	0.63	0.26	0.75
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD11	8	0.63	0.26	0.75
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD12	8	0.63	0.26	0.75
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD13	8	0.63	0.26	0.75
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD11	8	0.63	0.26	0.75
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD12	8	0.63	0.26	0.75
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD13	8	0.63	0.26	0.75

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1603)	1:59:B:LYS:H	1:59:B:LYS:HB2	8	0.61	0.1	0.62
(1,2492)	1:90:A:LYS:H	1:150:B:SER:HB3	8	0.49	0.4	0.32
(1,195)	1:30:A:LYS:HB2	1:31:A:GLN:H	8	0.48	0.4	0.23
(1,945)	1:134:A:LYS:H	1:134:A:LYS:HG3	8	0.48	0.23	0.55
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD21	8	0.47	0.12	0.48
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD22	8	0.47	0.12	0.48
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD23	8	0.47	0.12	0.48
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD21	8	0.47	0.12	0.48
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD22	8	0.47	0.12	0.48
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD23	8	0.47	0.12	0.48
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD21	8	0.47	0.12	0.48
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD22	8	0.47	0.12	0.48
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD23	8	0.47	0.12	0.48
(1,2437)	1:100:A:LYS:HE3	1:140:B:GLU:H	8	0.44	0.17	0.44
(1,1009)	1:140:A:GLU:H	1:140:A:GLU:HG3	8	0.4	0.15	0.4
(1,361)	1:51:A:ASN:HB2	1:52:A:VAL:H	8	0.4	0.08	0.38
(1,999)	1:139:A:GLU:H	1:139:A:GLU:HG3	8	0.39	0.15	0.36
(1,331)	1:48:A:ALA:HB1	1:18:A:MET:HA	8	0.36	0.24	0.28
(1,331)	1:48:A:ALA:HB2	1:18:A:MET:HA	8	0.36	0.24	0.28
(1,331)	1:48:A:ALA:HB3	1:18:A:MET:HA	8	0.36	0.24	0.28
(1,2285)	1:148:B:GLU:H	1:148:B:GLU:HB2	8	0.32	0.05	0.34
(1,878)	1:122:A:GLU:H	1:122:A:GLU:HB2	8	0.3	0.07	0.31
(1,998)	1:139:A:GLU:H	1:139:A:GLU:HB2	8	0.29	0.11	0.31
(1,843)	1:116:A:ARG:H	1:116:A:ARG:HB2	8	0.26	0.09	0.27
(1,2033)	1:116:B:ARG:H	1:116:B:ARG:HB2	8	0.26	0.09	0.26
(1,2032)	1:116:B:ARG:H	1:116:B:ARG:HA	8	0.25	0.19	0.2
(1,197)	1:33:A:LEU:H	1:33:A:LEU:HB3	8	0.24	0.06	0.24
(1,198)	1:33:A:LEU:H	1:33:A:LEU:HB3	8	0.24	0.06	0.24
(1,1304)	1:23:B:ARG:H	1:23:B:ARG:HB2	8	0.23	0.06	0.23
(1,842)	1:116:A:ARG:H	1:116:A:ARG:HA	8	0.23	0.2	0.15
(1,2106)	1:127:B:ARG:H	1:127:B:ARG:HB2	8	0.23	0.09	0.2
(1,1761)	1:78:B:LEU:H	1:78:B:LEU:HB3	8	0.22	0.03	0.22
(1,2011)	1:108:B:LYS:H	1:108:B:LYS:HB2	8	0.22	0.08	0.22
(1,909)	1:126:A:LYS:H	1:126:A:LYS:HB2	8	0.21	0.09	0.18
(1,1592)	1:56:B:ASN:H	1:57:B:LYS:H	8	0.18	0.04	0.18
(1,778)	1:101:A:GLU:HB2	1:102:A:LYS:H	8	0.17	0.04	0.17
(1,617)	1:82:A:SER:H	1:82:A:SER:HG	7	1.01	0.08	0.97
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD21	7	0.93	0.64	1.31
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD22	7	0.93	0.64	1.31
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD23	7	0.93	0.64	1.31
(1,1354)	1:25:B:ILE:HG21	1:83:B:PHE:HE2	7	0.93	0.44	0.89
(1,1354)	1:25:B:ILE:HG22	1:83:B:PHE:HE2	7	0.93	0.44	0.89

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1354)	1:25:B:ILE:HG23	1:83:B:PHE:HE2	7	0.93	0.44	0.89
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD11	7	0.8	0.43	0.98
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD12	7	0.8	0.43	0.98
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD13	7	0.8	0.43	0.98
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD11	7	0.76	0.39	0.8
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD12	7	0.76	0.39	0.8
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD13	7	0.76	0.39	0.8
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD11	7	0.75	0.4	0.5
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD12	7	0.75	0.4	0.5
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD13	7	0.75	0.4	0.5
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD11	7	0.75	0.4	0.5
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD12	7	0.75	0.4	0.5
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD13	7	0.75	0.4	0.5
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD11	7	0.75	0.4	0.5
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD12	7	0.75	0.4	0.5
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD13	7	0.75	0.4	0.5
(1,541)	1:75:A:LEU:HD21	1:95:A:LYS:HE3	7	0.73	0.5	0.57
(1,541)	1:75:A:LEU:HD22	1:95:A:LYS:HE3	7	0.73	0.5	0.57
(1,541)	1:75:A:LEU:HD23	1:95:A:LYS:HE3	7	0.73	0.5	0.57
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD11	7	0.72	0.21	0.78
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD12	7	0.72	0.21	0.78
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD13	7	0.72	0.21	0.78
(1,64)	1:18:A:MET:HE1	1:52:A:VAL:HB	7	0.71	0.34	0.54
(1,64)	1:18:A:MET:HE2	1:52:A:VAL:HB	7	0.71	0.34	0.54
(1,64)	1:18:A:MET:HE3	1:52:A:VAL:HB	7	0.71	0.34	0.54
(1,730)	1:96:A:GLU:H	1:96:A:GLU:HG2	7	0.56	0.27	0.51
(1,2456)	1:97:A:GLU:H	1:143:B:LYS:HG3	7	0.47	0.26	0.53
(1,360)	1:51:A:ASN:HB3	1:52:A:VAL:H	7	0.43	0.08	0.41
(1,939)	1:133:A:MET:H	1:133:A:MET:HG3	7	0.37	0.21	0.32
(1,221)	1:38:A:CYS:H	1:38:A:CYS:HB3	7	0.33	0.02	0.32
(1,2024)	1:113:B:GLU:H	1:113:B:GLU:HA	7	0.33	0.26	0.22
(1,1187)	1:159:A:LYS:H	1:159:A:LYS:HB2	7	0.25	0.12	0.28
(1,647)	1:87:A:THR:H	1:87:A:THR:HB	7	0.25	0.07	0.24
(1,2287)	1:148:B:GLU:H	1:148:B:GLU:HG2	7	0.25	0.05	0.27
(1,1184)	1:158:A:LYS:H	1:158:A:LYS:HB2	7	0.23	0.07	0.22
(1,114)	1:23:A:ARG:H	1:23:A:ARG:HB2	7	0.22	0.13	0.15
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB1	7	0.21	0.04	0.21
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB2	7	0.21	0.04	0.21
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB3	7	0.21	0.04	0.21
(1,2027)	1:114:B:LEU:H	1:114:B:LEU:HB3	7	0.2	0.07	0.17
(1,169)	1:26:A:TYR:H	1:26:A:TYR:HD2	7	0.18	0.07	0.18
(1,838)	1:114:A:LEU:H	1:114:A:LEU:HB2	7	0.17	0.08	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1569)	1:53:B:ARG:H	1:53:B:ARG:HB3	7	0.13	0.01	0.12
(1,2077)	1:123:B:ALA:HB1	1:124:B:ARG:H	7	0.12	0.01	0.13
(1,2077)	1:123:B:ALA:HB2	1:124:B:ARG:H	7	0.12	0.01	0.13
(1,2077)	1:123:B:ALA:HB3	1:124:B:ARG:H	7	0.12	0.01	0.13
(1,105)	1:22:A:GLU:H	1:22:A:GLU:HB3	7	0.11	0.01	0.11
(1,1635)	1:67:B:ARG:H	1:67:B:ARG:HB3	7	0.1	0.0	0.1
(1,1128)	1:151:A:ASP:H	1:151:A:ASP:HB3	7	0.1	0.0	0.1
(1,2305)	1:149:B:LEU:HD11	1:28:B:CYS:HA	6	1.04	0.53	1.26
(1,2305)	1:149:B:LEU:HD12	1:28:B:CYS:HA	6	1.04	0.53	1.26
(1,2305)	1:149:B:LEU:HD13	1:28:B:CYS:HA	6	1.04	0.53	1.26
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD11	6	0.93	0.29	0.88
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD12	6	0.93	0.29	0.88
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD13	6	0.93	0.29	0.88
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD11	6	0.93	0.29	0.88
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD12	6	0.93	0.29	0.88
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD13	6	0.93	0.29	0.88
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD11	6	0.93	0.29	0.88
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD12	6	0.93	0.29	0.88
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD13	6	0.93	0.29	0.88
(1,2450)	1:137:A:GLU:H	1:104:B:LYS:HE3	6	0.86	0.36	0.78
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD21	6	0.84	0.3	0.9
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD22	6	0.84	0.3	0.9
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD23	6	0.84	0.3	0.9
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD21	6	0.84	0.3	0.9
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD22	6	0.84	0.3	0.9
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD23	6	0.84	0.3	0.9
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD21	6	0.84	0.3	0.9
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD22	6	0.84	0.3	0.9
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD23	6	0.84	0.3	0.9
(1,1119)	1:149:A:LEU:HD21	1:28:A:CYS:HA	6	0.75	0.48	0.7
(1,1119)	1:149:A:LEU:HD22	1:28:A:CYS:HA	6	0.75	0.48	0.7
(1,1119)	1:149:A:LEU:HD23	1:28:A:CYS:HA	6	0.75	0.48	0.7
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD11	6	0.68	0.59	0.48
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD12	6	0.68	0.59	0.48
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD13	6	0.68	0.59	0.48
(1,1003)	1:139:A:GLU:H	1:142:A:ILE:H	6	0.67	0.21	0.66
(1,2419)	1:93:A:LYS:HE2	1:146:B:GLU:H	6	0.66	0.66	0.44
(1,348)	1:50:A:GLN:H	1:50:A:GLN:HG3	6	0.65	0.22	0.7
(1,2469)	1:147:A:LYS:HB2	1:93:B:LYS:H	6	0.6	0.39	0.51
(1,2442)	1:140:A:GLU:H	1:100:B:LYS:HD3	6	0.59	0.35	0.52
(1,323)	1:47:A:LEU:HD21	1:138:A:ASN:HB2	6	0.58	0.35	0.55
(1,323)	1:47:A:LEU:HD22	1:138:A:ASN:HB2	6	0.58	0.35	0.55

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,323)	1:47:A:LEU:HD23	1:138:A:ASN:HB2	6	0.58	0.35	0.55
(1,1024)	1:142:A:ILE:H	1:142:A:ILE:HB	6	0.58	0.13	0.53
(1,908)	1:126:A:LYS:H	1:126:A:LYS:HB3	6	0.56	0.24	0.57
(1,1650)	1:68:B:VAL:HG11	1:106:B:ARG:HD2	6	0.47	0.28	0.36
(1,1650)	1:68:B:VAL:HG12	1:106:B:ARG:HD2	6	0.47	0.28	0.36
(1,1650)	1:68:B:VAL:HG13	1:106:B:ARG:HD2	6	0.47	0.28	0.36
(1,841)	1:115:A:GLU:H	1:115:A:GLU:HA	6	0.46	0.27	0.48
(1,1147)	1:153:A:GLU:H	1:153:A:GLU:HB3	6	0.43	0.16	0.48
(1,1215)	1:15:B:LEU:HD11	1:103:B:ALA:HA	6	0.41	0.28	0.32
(1,1215)	1:15:B:LEU:HD12	1:103:B:ALA:HA	6	0.41	0.28	0.32
(1,1215)	1:15:B:LEU:HD13	1:103:B:ALA:HA	6	0.41	0.28	0.32
(1,79)	1:19:A:THR:HG21	1:99:A:LEU:HB3	6	0.4	0.14	0.38
(1,79)	1:19:A:THR:HG22	1:99:A:LEU:HB3	6	0.4	0.14	0.38
(1,79)	1:19:A:THR:HG23	1:99:A:LEU:HB3	6	0.4	0.14	0.38
(1,524)	1:75:A:LEU:HD21	1:76:A:VAL:H	6	0.4	0.21	0.34
(1,524)	1:75:A:LEU:HD22	1:76:A:VAL:H	6	0.4	0.21	0.34
(1,524)	1:75:A:LEU:HD23	1:76:A:VAL:H	6	0.4	0.21	0.34
(1,431)	1:64:A:PHE:H	1:64:A:PHE:HD1	6	0.39	0.18	0.47
(1,891)	1:124:A:ARG:H	1:124:A:ARG:HD3	6	0.38	0.24	0.4
(1,1174)	1:156:A:LEU:H	1:156:A:LEU:HG	6	0.38	0.22	0.38
(1,837)	1:114:A:LEU:H	1:114:A:LEU:HB3	6	0.35	0.22	0.32
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD11	6	0.35	0.17	0.32
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD12	6	0.35	0.17	0.32
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD13	6	0.35	0.17	0.32
(1,615)	1:82:A:SER:H	1:82:A:SER:HB3	6	0.32	0.07	0.32
(1,1524)	1:48:B:ALA:HB1	1:18:B:MET:HG3	6	0.3	0.2	0.25
(1,1524)	1:48:B:ALA:HB2	1:18:B:MET:HG3	6	0.3	0.2	0.25
(1,1524)	1:48:B:ALA:HB3	1:18:B:MET:HG3	6	0.3	0.2	0.25
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD11	6	0.28	0.1	0.28
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD12	6	0.28	0.1	0.28
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD13	6	0.28	0.1	0.28
(1,651)	1:88:A:SER:H	1:88:A:SER:HA	6	0.23	0.0	0.23
(1,211)	1:36:A:ILE:HD11	1:37:A:GLY:H	6	0.22	0.04	0.2
(1,211)	1:36:A:ILE:HD12	1:37:A:GLY:H	6	0.22	0.04	0.2
(1,211)	1:36:A:ILE:HD13	1:37:A:GLY:H	6	0.22	0.04	0.2
(1,1306)	1:23:B:ARG:H	1:23:B:ARG:HG2	6	0.2	0.05	0.2
(1,609)	1:81:A:GLY:HA3	1:82:A:SER:H	6	0.16	0.03	0.16
(1,2022)	1:112:B:GLN:H	1:112:B:GLN:HB2	6	0.16	0.05	0.16
(1,206)	1:36:A:ILE:H	1:36:A:ILE:HB	6	0.15	0.0	0.15
(1,2198)	1:140:B:GLU:H	1:140:B:GLU:HB2	6	0.13	0.02	0.12
(1,1611)	1:60:B:ALA:HB1	1:61:B:GLN:H	6	0.12	0.02	0.12
(1,1611)	1:60:B:ALA:HB2	1:61:B:GLN:H	6	0.12	0.02	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1611)	1:60:B:ALA:HB3	1:61:B:GLN:H	6	0.12	0.02	0.12
(1,279)	1:44:A:ALA:H	1:45:A:VAL:H	6	0.11	0.01	0.11
(1,2478)	1:93:A:LYS:H	1:147:B:LYS:HD2	5	1.22	0.86	1.4
(1,1731)	1:75:B:LEU:HD21	1:95:B:LYS:HE3	5	1.17	0.54	1.2
(1,1731)	1:75:B:LEU:HD22	1:95:B:LYS:HE3	5	1.17	0.54	1.2
(1,1731)	1:75:B:LEU:HD23	1:95:B:LYS:HE3	5	1.17	0.54	1.2
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB1	5	1.09	0.25	1.08
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB2	5	1.09	0.25	1.08
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB3	5	1.09	0.25	1.08
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB1	5	1.09	0.25	1.08
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB2	5	1.09	0.25	1.08
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB3	5	1.09	0.25	1.08
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB1	5	1.09	0.25	1.08
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB2	5	1.09	0.25	1.08
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB3	5	1.09	0.25	1.08
(1,2455)	1:143:A:LYS:HG3	1:97:B:GLU:H	5	1.0	0.64	1.32
(1,2483)	1:147:A:LYS:HE3	1:94:B:ALA:H	5	0.84	0.93	0.21
(1,1776)	1:78:B:LEU:HD11	1:95:B:LYS:HE2	5	0.8	0.62	0.52
(1,1776)	1:78:B:LEU:HD12	1:95:B:LYS:HE2	5	0.8	0.62	0.52
(1,1776)	1:78:B:LEU:HD13	1:95:B:LYS:HE2	5	0.8	0.62	0.52
(1,2471)	1:147:A:LYS:HG3	1:93:B:LYS:H	5	0.8	0.68	0.36
(1,1732)	1:75:B:LEU:HD21	1:95:B:LYS:HE2	5	0.8	0.51	0.8
(1,1732)	1:75:B:LEU:HD22	1:95:B:LYS:HE2	5	0.8	0.51	0.8
(1,1732)	1:75:B:LEU:HD23	1:95:B:LYS:HE2	5	0.8	0.51	0.8
(1,1355)	1:25:B:ILE:HG21	1:83:B:PHE:HE1	5	0.79	0.15	0.89
(1,1355)	1:25:B:ILE:HG22	1:83:B:PHE:HE1	5	0.79	0.15	0.89
(1,1355)	1:25:B:ILE:HG23	1:83:B:PHE:HE1	5	0.79	0.15	0.89
(1,132)	1:24:A:ILE:HD11	1:40:A:LEU:HB3	5	0.76	0.56	0.57
(1,132)	1:24:A:ILE:HD12	1:40:A:LEU:HB3	5	0.76	0.56	0.57
(1,132)	1:24:A:ILE:HD13	1:40:A:LEU:HB3	5	0.76	0.56	0.57
(1,143)	1:24:A:ILE:HG21	1:142:A:ILE:HB	5	0.76	0.44	0.52
(1,143)	1:24:A:ILE:HG22	1:142:A:ILE:HB	5	0.76	0.44	0.52
(1,143)	1:24:A:ILE:HG23	1:142:A:ILE:HB	5	0.76	0.44	0.52
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB1	5	0.73	0.17	0.76
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB2	5	0.73	0.17	0.76
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB3	5	0.73	0.17	0.76
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB1	5	0.73	0.17	0.76
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB2	5	0.73	0.17	0.76
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB3	5	0.73	0.17	0.76
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB1	5	0.73	0.17	0.76
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB2	5	0.73	0.17	0.76
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB3	5	0.73	0.17	0.76

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG11	5	0.73	0.34	0.82
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG12	5	0.73	0.34	0.82
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG13	5	0.73	0.34	0.82
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG11	5	0.73	0.34	0.82
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG12	5	0.73	0.34	0.82
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG13	5	0.73	0.34	0.82
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG11	5	0.73	0.34	0.82
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG12	5	0.73	0.34	0.82
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG13	5	0.73	0.34	0.82
(1,137)	1:24:A:ILE:HD11	1:41:A:THR:HA	5	0.72	0.53	0.58
(1,137)	1:24:A:ILE:HD12	1:41:A:THR:HA	5	0.72	0.53	0.58
(1,137)	1:24:A:ILE:HD13	1:41:A:THR:HA	5	0.72	0.53	0.58
(1,1885)	1:92:B:LEU:HD21	1:83:B:PHE:HE2	5	0.7	0.21	0.77
(1,1885)	1:92:B:LEU:HD22	1:83:B:PHE:HE2	5	0.7	0.21	0.77
(1,1885)	1:92:B:LEU:HD23	1:83:B:PHE:HE2	5	0.7	0.21	0.77
(1,538)	1:75:A:LEU:HD21	1:95:A:LYS:HG3	5	0.66	0.28	0.5
(1,538)	1:75:A:LEU:HD22	1:95:A:LYS:HG3	5	0.66	0.28	0.5
(1,538)	1:75:A:LEU:HD23	1:95:A:LYS:HG3	5	0.66	0.28	0.5
(1,1041)	1:143:A:LYS:H	1:143:A:LYS:HG3	5	0.63	0.3	0.58
(1,421)	1:60:A:ALA:HB1	1:61:A:GLN:H	5	0.63	0.23	0.74
(1,421)	1:60:A:ALA:HB2	1:61:A:GLN:H	5	0.63	0.23	0.74
(1,421)	1:60:A:ALA:HB3	1:61:A:GLN:H	5	0.63	0.23	0.74
(1,899)	1:125:A:ARG:H	1:125:A:ARG:HG3	5	0.58	0.18	0.68
(1,2396)	1:150:A:SER:H	1:90:B:LYS:HD2	5	0.55	0.22	0.56
(1,251)	1:40:A:LEU:HD11	1:145:A:LEU:HB2	5	0.54	0.22	0.6
(1,251)	1:40:A:LEU:HD12	1:145:A:LEU:HB2	5	0.54	0.22	0.6
(1,251)	1:40:A:LEU:HD13	1:145:A:LEU:HB2	5	0.54	0.22	0.6
(1,941)	1:133:A:MET:H	1:133:A:MET:HE1	5	0.53	0.19	0.52
(1,941)	1:133:A:MET:H	1:133:A:MET:HE2	5	0.53	0.19	0.52
(1,941)	1:133:A:MET:H	1:133:A:MET:HE3	5	0.53	0.19	0.52
(1,2460)	1:97:A:GLU:H	1:143:B:LYS:HD3	5	0.5	0.38	0.34
(1,1513)	1:47:B:LEU:HD21	1:138:B:ASN:HB2	5	0.44	0.14	0.4
(1,1513)	1:47:B:LEU:HD22	1:138:B:ASN:HB2	5	0.44	0.14	0.4
(1,1513)	1:47:B:LEU:HD23	1:138:B:ASN:HB2	5	0.44	0.14	0.4
(1,930)	1:130:A:LEU:H	1:130:A:LEU:HB2	5	0.42	0.11	0.43
(1,795)	1:103:A:ALA:HB1	1:15:A:LEU:HB3	5	0.41	0.27	0.28
(1,795)	1:103:A:ALA:HB2	1:15:A:LEU:HB3	5	0.41	0.27	0.28
(1,795)	1:103:A:ALA:HB3	1:15:A:LEU:HB3	5	0.41	0.27	0.28
(1,2416)	1:147:A:LYS:H	1:93:B:LYS:HE2	5	0.38	0.18	0.41
(1,740)	1:97:A:GLU:H	1:97:A:GLU:HG3	5	0.36	0.14	0.35
(1,1653)	1:68:B:VAL:HG11	1:102:B:LYS:HE3	5	0.34	0.34	0.14
(1,1653)	1:68:B:VAL:HG12	1:102:B:LYS:HE3	5	0.34	0.34	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1653)	1:68:B:VAL:HG13	1:102:B:LYS:HE3	5	0.34	0.34	0.14
(1,373)	1:52:A:VAL:HG11	1:69:A:GLY:HA3	5	0.33	0.19	0.34
(1,373)	1:52:A:VAL:HG12	1:69:A:GLY:HA3	5	0.33	0.19	0.34
(1,373)	1:52:A:VAL:HG13	1:69:A:GLY:HA3	5	0.33	0.19	0.34
(1,840)	1:114:A:LEU:H	1:115:A:GLU:H	5	0.33	0.14	0.31
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG21	5	0.32	0.16	0.33
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG22	5	0.32	0.16	0.33
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG23	5	0.32	0.16	0.33
(1,1573)	1:53:B:ARG:HA	1:56:B:ASN:H	5	0.26	0.14	0.2
(1,1008)	1:140:A:GLU:H	1:140:A:GLU:HB2	5	0.25	0.08	0.25
(1,418)	1:60:A:ALA:H	1:60:A:ALA:HA	5	0.22	0.01	0.23
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB1	5	0.19	0.04	0.16
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB2	5	0.19	0.04	0.16
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB3	5	0.19	0.04	0.16
(1,1121)	1:150:A:SER:H	1:150:A:SER:HB2	5	0.19	0.08	0.18
(1,2374)	1:158:B:LYS:H	1:158:B:LYS:HB2	5	0.18	0.07	0.14
(1,1822)	1:84:B:ILE:H	1:84:B:ILE:HB	5	0.16	0.01	0.16
(1,383)	1:53:A:ARG:HA	1:56:A:ASN:H	5	0.15	0.03	0.16
(1,484)	1:71:A:GLN:HB3	1:72:A:ALA:H	5	0.14	0.02	0.13
(1,1575)	1:54:B:LEU:H	1:54:B:LEU:HB3	5	0.12	0.01	0.12
(1,1552)	1:52:B:VAL:H	1:52:B:VAL:HA	5	0.11	0.0	0.11
(1,1591)	1:56:B:ASN:H	1:56:B:ASN:HA	5	0.11	0.0	0.11
(1,2481)	1:147:A:LYS:HE2	1:93:B:LYS:H	4	1.58	1.01	1.41
(1,2156)	1:135:B:THR:HG21	1:17:B:ASP:HB3	4	1.12	0.37	1.11
(1,2156)	1:135:B:THR:HG22	1:17:B:ASP:HB3	4	1.12	0.37	1.11
(1,2156)	1:135:B:THR:HG23	1:17:B:ASP:HB3	4	1.12	0.37	1.11
(1,364)	1:52:A:VAL:H	1:52:A:VAL:HG11	4	1.1	0.07	1.12
(1,364)	1:52:A:VAL:H	1:52:A:VAL:HG12	4	1.1	0.07	1.12
(1,364)	1:52:A:VAL:H	1:52:A:VAL:HG13	4	1.1	0.07	1.12
(1,687)	1:92:A:LEU:H	1:94:A:ALA:HB2	4	1.08	0.08	1.1
(1,256)	1:40:A:LEU:HD21	1:145:A:LEU:HD11	4	0.99	0.54	0.93
(1,256)	1:40:A:LEU:HD21	1:145:A:LEU:HD12	4	0.99	0.54	0.93
(1,256)	1:40:A:LEU:HD21	1:145:A:LEU:HD13	4	0.99	0.54	0.93
(1,256)	1:40:A:LEU:HD22	1:145:A:LEU:HD11	4	0.99	0.54	0.93
(1,256)	1:40:A:LEU:HD22	1:145:A:LEU:HD12	4	0.99	0.54	0.93
(1,256)	1:40:A:LEU:HD22	1:145:A:LEU:HD13	4	0.99	0.54	0.93
(1,256)	1:40:A:LEU:HD23	1:145:A:LEU:HD11	4	0.99	0.54	0.93
(1,256)	1:40:A:LEU:HD23	1:145:A:LEU:HD12	4	0.99	0.54	0.93
(1,256)	1:40:A:LEU:HD23	1:145:A:LEU:HD13	4	0.99	0.54	0.93
(1,1887)	1:92:B:LEU:HD21	1:26:B:TYR:HE1	4	0.96	0.51	0.97
(1,1887)	1:92:B:LEU:HD22	1:26:B:TYR:HE1	4	0.96	0.51	0.97
(1,1887)	1:92:B:LEU:HD23	1:26:B:TYR:HE1	4	0.96	0.51	0.97

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,463)	1:68:A:VAL:HG11	1:102:A:LYS:HE3	4	0.96	0.33	0.92
(1,463)	1:68:A:VAL:HG12	1:102:A:LYS:HE3	4	0.96	0.33	0.92
(1,463)	1:68:A:VAL:HG13	1:102:A:LYS:HE3	4	0.96	0.33	0.92
(1,141)	1:24:A:ILE:HD11	1:146:A:GLU:HG3	4	0.81	0.51	0.57
(1,141)	1:24:A:ILE:HD12	1:146:A:GLU:HG3	4	0.81	0.51	0.57
(1,141)	1:24:A:ILE:HD13	1:146:A:GLU:HG3	4	0.81	0.51	0.57
(1,244)	1:40:A:LEU:HD21	1:24:A:ILE:HB	4	0.8	0.73	0.52
(1,244)	1:40:A:LEU:HD22	1:24:A:ILE:HB	4	0.8	0.73	0.52
(1,244)	1:40:A:LEU:HD23	1:24:A:ILE:HB	4	0.8	0.73	0.52
(1,2157)	1:135:B:THR:HG21	1:17:B:ASP:HB2	4	0.79	0.44	0.78
(1,2157)	1:135:B:THR:HG22	1:17:B:ASP:HB2	4	0.79	0.44	0.78
(1,2157)	1:135:B:THR:HG23	1:17:B:ASP:HB2	4	0.79	0.44	0.78
(1,533)	1:75:A:LEU:HD11	1:95:A:LYS:HE2	4	0.78	0.44	0.7
(1,533)	1:75:A:LEU:HD12	1:95:A:LYS:HE2	4	0.78	0.44	0.7
(1,533)	1:75:A:LEU:HD13	1:95:A:LYS:HE2	4	0.78	0.44	0.7
(1,1563)	1:52:B:VAL:HG11	1:69:B:GLY:HA3	4	0.76	0.45	0.78
(1,1563)	1:52:B:VAL:HG12	1:69:B:GLY:HA3	4	0.76	0.45	0.78
(1,1563)	1:52:B:VAL:HG13	1:69:B:GLY:HA3	4	0.76	0.45	0.78
(1,2486)	1:94:A:ALA:H	1:147:B:LYS:HE2	4	0.76	0.32	0.86
(1,1729)	1:75:B:LEU:HD21	1:95:B:LYS:HG2	4	0.75	0.48	0.71
(1,1729)	1:75:B:LEU:HD22	1:95:B:LYS:HG2	4	0.75	0.48	0.71
(1,1729)	1:75:B:LEU:HD23	1:95:B:LYS:HG2	4	0.75	0.48	0.71
(1,796)	1:103:A:ALA:HB1	1:15:A:LEU:HB2	4	0.7	0.44	0.6
(1,796)	1:103:A:ALA:HB2	1:15:A:LEU:HB2	4	0.7	0.44	0.6
(1,796)	1:103:A:ALA:HB3	1:15:A:LEU:HB2	4	0.7	0.44	0.6
(1,142)	1:24:A:ILE:HD11	1:146:A:GLU:HG2	4	0.7	0.54	0.41
(1,142)	1:24:A:ILE:HD12	1:146:A:GLU:HG2	4	0.7	0.54	0.41
(1,142)	1:24:A:ILE:HD13	1:146:A:GLU:HG2	4	0.7	0.54	0.41
(1,948)	1:134:A:LYS:H	1:134:A:LYS:HD2	4	0.69	0.21	0.68
(1,1726)	1:75:B:LEU:HD21	1:95:B:LYS:HB3	4	0.64	0.49	0.57
(1,1726)	1:75:B:LEU:HD22	1:95:B:LYS:HB3	4	0.64	0.49	0.57
(1,1726)	1:75:B:LEU:HD23	1:95:B:LYS:HB3	4	0.64	0.49	0.57
(1,1251)	1:18:B:MET:HE1	1:51:B:ASN:HB2	4	0.62	0.52	0.45
(1,1251)	1:18:B:MET:HE2	1:51:B:ASN:HB2	4	0.62	0.52	0.45
(1,1251)	1:18:B:MET:HE3	1:51:B:ASN:HB2	4	0.62	0.52	0.45
(1,134)	1:24:A:ILE:HD11	1:40:A:LEU:HG	4	0.6	0.36	0.6
(1,134)	1:24:A:ILE:HD12	1:40:A:LEU:HG	4	0.6	0.36	0.6
(1,134)	1:24:A:ILE:HD13	1:40:A:LEU:HG	4	0.6	0.36	0.6
(1,1525)	1:48:B:ALA:HB1	1:18:B:MET:HG2	4	0.6	0.52	0.32
(1,1525)	1:48:B:ALA:HB2	1:18:B:MET:HG2	4	0.6	0.52	0.32
(1,1525)	1:48:B:ALA:HB3	1:18:B:MET:HG2	4	0.6	0.52	0.32
(1,2029)	1:114:B:LEU:H	1:114:B:LEU:HG	4	0.6	0.43	0.42

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,536)	1:75:A:LEU:HD21	1:95:A:LYS:HB3	4	0.57	0.24	0.57
(1,536)	1:75:A:LEU:HD22	1:95:A:LYS:HB3	4	0.57	0.24	0.57
(1,536)	1:75:A:LEU:HD23	1:95:A:LYS:HB3	4	0.57	0.24	0.57
(1,700)	1:93:A:LYS:H	1:93:A:LYS:HD3	4	0.56	0.25	0.58
(1,2023)	1:112:B:GLN:H	1:112:B:GLN:HG2	4	0.5	0.36	0.5
(1,655)	1:88:A:SER:H	1:89:A:GLY:H	4	0.49	0.32	0.44
(1,1034)	1:142:A:ILE:HD11	1:24:A:ILE:HB	4	0.49	0.1	0.44
(1,1034)	1:142:A:ILE:HD12	1:24:A:ILE:HB	4	0.49	0.1	0.44
(1,1034)	1:142:A:ILE:HD13	1:24:A:ILE:HB	4	0.49	0.1	0.44
(1,464)	1:68:A:VAL:HG11	1:102:A:LYS:HE2	4	0.48	0.27	0.48
(1,464)	1:68:A:VAL:HG12	1:102:A:LYS:HE2	4	0.48	0.27	0.48
(1,464)	1:68:A:VAL:HG13	1:102:A:LYS:HE2	4	0.48	0.27	0.48
(1,2401)	1:93:A:LYS:HB3	1:147:B:LYS:H	4	0.48	0.13	0.42
(1,858)	1:119:A:GLU:H	1:119:A:GLU:HG3	4	0.47	0.1	0.5
(1,1212)	1:15:B:LEU:HD11	1:99:B:LEU:HD21	4	0.44	0.4	0.22
(1,1212)	1:15:B:LEU:HD11	1:99:B:LEU:HD22	4	0.44	0.4	0.22
(1,1212)	1:15:B:LEU:HD11	1:99:B:LEU:HD23	4	0.44	0.4	0.22
(1,1212)	1:15:B:LEU:HD12	1:99:B:LEU:HD21	4	0.44	0.4	0.22
(1,1212)	1:15:B:LEU:HD12	1:99:B:LEU:HD22	4	0.44	0.4	0.22
(1,1212)	1:15:B:LEU:HD12	1:99:B:LEU:HD23	4	0.44	0.4	0.22
(1,1212)	1:15:B:LEU:HD13	1:99:B:LEU:HD21	4	0.44	0.4	0.22
(1,1212)	1:15:B:LEU:HD13	1:99:B:LEU:HD22	4	0.44	0.4	0.22
(1,1212)	1:15:B:LEU:HD13	1:99:B:LEU:HD23	4	0.44	0.4	0.22
(1,2351)	1:155:B:LYS:H	1:155:B:LYS:HB3	4	0.44	0.01	0.44
(1,1512)	1:47:B:LEU:HD21	1:138:B:ASN:HB3	4	0.43	0.19	0.42
(1,1512)	1:47:B:LEU:HD22	1:138:B:ASN:HB3	4	0.43	0.19	0.42
(1,1512)	1:47:B:LEU:HD23	1:138:B:ASN:HB3	4	0.43	0.19	0.42
(1,1117)	1:149:A:LEU:HD21	1:27:A:HIS:HA	4	0.4	0.23	0.31
(1,1117)	1:149:A:LEU:HD22	1:27:A:HIS:HA	4	0.4	0.23	0.31
(1,1117)	1:149:A:LEU:HD23	1:27:A:HIS:HA	4	0.4	0.23	0.31
(1,898)	1:125:A:ARG:H	1:125:A:ARG:HB3	4	0.4	0.1	0.35
(1,179)	1:27:A:HIS:HB2	1:28:A:CYS:H	4	0.4	0.24	0.37
(1,2131)	1:133:B:MET:H	1:133:B:MET:HE1	4	0.38	0.09	0.38
(1,2131)	1:133:B:MET:H	1:133:B:MET:HE2	4	0.38	0.09	0.38
(1,2131)	1:133:B:MET:H	1:133:B:MET:HE3	4	0.38	0.09	0.38
(1,2309)	1:149:B:LEU:HD21	1:28:B:CYS:HA	4	0.37	0.14	0.38
(1,2309)	1:149:B:LEU:HD22	1:28:B:CYS:HA	4	0.37	0.14	0.38
(1,2309)	1:149:B:LEU:HD23	1:28:B:CYS:HA	4	0.37	0.14	0.38
(1,367)	1:52:A:VAL:HB	1:53:A:ARG:H	4	0.34	0.04	0.36
(1,699)	1:93:A:LYS:H	1:93:A:LYS:HG2	4	0.31	0.14	0.3
(1,926)	1:129:A:GLU:H	1:129:A:GLU:HB2	4	0.31	0.08	0.31
(1,2)	1:12:A:GLU:H	1:12:A:GLU:HB3	4	0.3	0.1	0.26

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,758)	1:99:A:LEU:HD11	1:75:A:LEU:HB3	4	0.3	0.18	0.24
(1,758)	1:99:A:LEU:HD12	1:75:A:LEU:HB3	4	0.3	0.18	0.24
(1,758)	1:99:A:LEU:HD13	1:75:A:LEU:HB3	4	0.3	0.18	0.24
(1,2120)	1:130:B:LEU:H	1:130:B:LEU:HB2	4	0.29	0.11	0.27
(1,2264)	1:146:B:GLU:H	1:146:B:GLU:HB2	4	0.29	0.08	0.32
(1,2473)	1:147:A:LYS:HG2	1:93:B:LYS:H	4	0.27	0.12	0.24
(1,1839)	1:87:B:THR:H	1:88:B:SER:H	4	0.26	0.09	0.22
(1,2028)	1:114:B:LEU:H	1:114:B:LEU:HB2	4	0.25	0.03	0.26
(1,877)	1:122:A:GLU:H	1:122:A:GLU:HG2	4	0.24	0.14	0.18
(1,2426)	1:147:A:LYS:HE3	1:94:B:ALA:HB1	4	0.23	0.11	0.18
(1,2426)	1:147:A:LYS:HE3	1:94:B:ALA:HB2	4	0.23	0.11	0.18
(1,2426)	1:147:A:LYS:HE3	1:94:B:ALA:HB3	4	0.23	0.11	0.18
(1,1196)	1:13:B:ARG:H	1:13:B:ARG:HB2	4	0.23	0.07	0.26
(1,1129)	1:151:A:ASP:H	1:151:A:ASP:HB2	4	0.2	0.05	0.22
(1,419)	1:60:A:ALA:H	1:60:A:ALA:HB1	4	0.19	0.06	0.18
(1,419)	1:60:A:ALA:H	1:60:A:ALA:HB2	4	0.19	0.06	0.18
(1,419)	1:60:A:ALA:H	1:60:A:ALA:HB3	4	0.19	0.06	0.18
(1,954)	1:134:A:LYS:HB3	1:135:A:THR:H	4	0.18	0.07	0.16
(1,2031)	1:115:B:GLU:H	1:115:B:GLU:HA	4	0.18	0.04	0.16
(1,1568)	1:53:B:ARG:H	1:53:B:ARG:HA	4	0.16	0.01	0.16
(1,955)	1:134:A:LYS:HG2	1:135:A:THR:H	4	0.16	0.02	0.15
(1,363)	1:52:A:VAL:H	1:52:A:VAL:HB	4	0.14	0.01	0.14
(1,2036)	1:117:B:ARG:H	1:117:B:ARG:HB2	4	0.14	0.03	0.15
(1,2248)	1:145:B:LEU:H	1:145:B:LEU:HB2	4	0.13	0.02	0.12
(1,145)	1:24:A:ILE:HG21	1:146:A:GLU:HG3	3	1.85	0.69	1.7
(1,145)	1:24:A:ILE:HG22	1:146:A:GLU:HG3	3	1.85	0.69	1.7
(1,145)	1:24:A:ILE:HG23	1:146:A:GLU:HG3	3	1.85	0.69	1.7
(1,146)	1:24:A:ILE:HG21	1:146:A:GLU:HG2	3	1.44	0.73	1.03
(1,146)	1:24:A:ILE:HG22	1:146:A:GLU:HG2	3	1.44	0.73	1.03
(1,146)	1:24:A:ILE:HG23	1:146:A:GLU:HG2	3	1.44	0.73	1.03
(1,2417)	1:93:A:LYS:HE3	1:146:B:GLU:H	3	1.29	0.67	1.34
(1,1031)	1:142:A:ILE:HD11	1:145:A:LEU:HD11	3	1.16	0.44	1.23
(1,1031)	1:142:A:ILE:HD11	1:145:A:LEU:HD12	3	1.16	0.44	1.23
(1,1031)	1:142:A:ILE:HD11	1:145:A:LEU:HD13	3	1.16	0.44	1.23
(1,1031)	1:142:A:ILE:HD12	1:145:A:LEU:HD11	3	1.16	0.44	1.23
(1,1031)	1:142:A:ILE:HD12	1:145:A:LEU:HD12	3	1.16	0.44	1.23
(1,1031)	1:142:A:ILE:HD12	1:145:A:LEU:HD13	3	1.16	0.44	1.23
(1,1031)	1:142:A:ILE:HD13	1:145:A:LEU:HD11	3	1.16	0.44	1.23
(1,1031)	1:142:A:ILE:HD13	1:145:A:LEU:HD12	3	1.16	0.44	1.23
(1,1031)	1:142:A:ILE:HD13	1:145:A:LEU:HD13	3	1.16	0.44	1.23
(1,15)	1:15:A:LEU:H	1:15:A:LEU:HD21	3	1.15	0.09	1.21
(1,15)	1:15:A:LEU:H	1:15:A:LEU:HD22	3	1.15	0.09	1.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,15)	1:15:A:LEU:H	1:15:A:LEU:HD23	3	1.15	0.09	1.21
(1,61)	1:18:A:MET:HE1	1:51:A:ASN:HB2	3	1.12	0.63	1.01
(1,61)	1:18:A:MET:HE2	1:51:A:ASN:HB2	3	1.12	0.63	1.01
(1,61)	1:18:A:MET:HE3	1:51:A:ASN:HB2	3	1.12	0.63	1.01
(1,2395)	1:90:A:LYS:HD2	1:150:B:SER:H	3	1.05	0.36	1.18
(1,1564)	1:52:B:VAL:HG11	1:69:B:GLY:HA2	3	1.04	0.25	1.15
(1,1564)	1:52:B:VAL:HG12	1:69:B:GLY:HA2	3	1.04	0.25	1.15
(1,1564)	1:52:B:VAL:HG13	1:69:B:GLY:HA2	3	1.04	0.25	1.15
(1,268)	1:42:A:THR:H	1:42:A:THR:HG21	3	1.02	0.01	1.01
(1,268)	1:42:A:THR:H	1:42:A:THR:HG22	3	1.02	0.01	1.01
(1,268)	1:42:A:THR:H	1:42:A:THR:HG23	3	1.02	0.01	1.01
(1,985)	1:137:A:GLU:H	1:137:A:GLU:HG2	3	0.99	0.19	1.08
(1,2488)	1:94:A:ALA:HB1	1:147:B:LYS:HE3	3	0.98	0.42	0.77
(1,2488)	1:94:A:ALA:HB2	1:147:B:LYS:HE3	3	0.98	0.42	0.77
(1,2488)	1:94:A:ALA:HB3	1:147:B:LYS:HE3	3	0.98	0.42	0.77
(1,1884)	1:92:B:LEU:HD21	1:83:B:PHE:HZ	3	0.94	0.49	1.2
(1,1884)	1:92:B:LEU:HD22	1:83:B:PHE:HZ	3	0.94	0.49	1.2
(1,1884)	1:92:B:LEU:HD23	1:83:B:PHE:HZ	3	0.94	0.49	1.2
(1,1886)	1:92:B:LEU:HD21	1:83:B:PHE:HZ	3	0.94	0.49	1.2
(1,1886)	1:92:B:LEU:HD22	1:83:B:PHE:HZ	3	0.94	0.49	1.2
(1,1886)	1:92:B:LEU:HD23	1:83:B:PHE:HZ	3	0.94	0.49	1.2
(1,1722)	1:75:B:LEU:HD11	1:95:B:LYS:HE3	3	0.89	0.5	0.56
(1,1722)	1:75:B:LEU:HD12	1:95:B:LYS:HE3	3	0.89	0.5	0.56
(1,1722)	1:75:B:LEU:HD13	1:95:B:LYS:HE3	3	0.89	0.5	0.56
(1,2407)	1:93:A:LYS:HG2	1:147:B:LYS:H	3	0.8	0.6	0.64
(1,254)	1:40:A:LEU:HD21	1:145:A:LEU:HB3	3	0.78	0.37	0.63
(1,254)	1:40:A:LEU:HD22	1:145:A:LEU:HB3	3	0.78	0.37	0.63
(1,254)	1:40:A:LEU:HD23	1:145:A:LEU:HB3	3	0.78	0.37	0.63
(1,931)	1:130:A:LEU:H	1:130:A:LEU:HG	3	0.77	0.11	0.81
(1,1083)	1:147:A:LYS:H	1:147:A:LYS:HG3	3	0.77	0.29	0.95
(1,547)	1:75:A:LEU:HD21	1:99:A:LEU:HD21	3	0.74	0.25	0.71
(1,547)	1:75:A:LEU:HD21	1:99:A:LEU:HD22	3	0.74	0.25	0.71
(1,547)	1:75:A:LEU:HD21	1:99:A:LEU:HD23	3	0.74	0.25	0.71
(1,547)	1:75:A:LEU:HD22	1:99:A:LEU:HD21	3	0.74	0.25	0.71
(1,547)	1:75:A:LEU:HD22	1:99:A:LEU:HD22	3	0.74	0.25	0.71
(1,547)	1:75:A:LEU:HD22	1:99:A:LEU:HD23	3	0.74	0.25	0.71
(1,547)	1:75:A:LEU:HD23	1:99:A:LEU:HD21	3	0.74	0.25	0.71
(1,547)	1:75:A:LEU:HD23	1:99:A:LEU:HD22	3	0.74	0.25	0.71
(1,547)	1:75:A:LEU:HD23	1:99:A:LEU:HD23	3	0.74	0.25	0.71
(1,193)	1:30:A:LYS:H	1:31:A:GLN:H	3	0.73	0.06	0.7
(1,1000)	1:139:A:GLU:H	1:139:A:GLU:HG2	3	0.73	0.15	0.83
(1,200)	1:33:A:LEU:HD11	1:152:A:LEU:HD11	3	0.7	0.1	0.68

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,200)	1:33:A:LEU:HD11	1:152:A:LEU:HD12	3	0.7	0.1	0.68
(1,200)	1:33:A:LEU:HD11	1:152:A:LEU:HD13	3	0.7	0.1	0.68
(1,200)	1:33:A:LEU:HD12	1:152:A:LEU:HD11	3	0.7	0.1	0.68
(1,200)	1:33:A:LEU:HD12	1:152:A:LEU:HD12	3	0.7	0.1	0.68
(1,200)	1:33:A:LEU:HD12	1:152:A:LEU:HD13	3	0.7	0.1	0.68
(1,200)	1:33:A:LEU:HD13	1:152:A:LEU:HD11	3	0.7	0.1	0.68
(1,200)	1:33:A:LEU:HD13	1:152:A:LEU:HD12	3	0.7	0.1	0.68
(1,200)	1:33:A:LEU:HD13	1:152:A:LEU:HD13	3	0.7	0.1	0.68
(1,122)	1:24:A:ILE:H	1:24:A:ILE:HB	3	0.66	0.01	0.66
(1,529)	1:75:A:LEU:HD11	1:95:A:LYS:HG2	3	0.63	0.32	0.85
(1,529)	1:75:A:LEU:HD12	1:95:A:LYS:HG2	3	0.63	0.32	0.85
(1,529)	1:75:A:LEU:HD13	1:95:A:LYS:HG2	3	0.63	0.32	0.85
(1,1094)	1:148:A:GLU:H	1:148:A:GLU:HB3	3	0.61	0.04	0.59
(1,835)	1:113:A:GLU:H	1:114:A:LEU:H	3	0.61	0.26	0.47
(1,970)	1:135:A:THR:HG21	1:18:A:MET:HG3	3	0.6	0.1	0.66
(1,970)	1:135:A:THR:HG22	1:18:A:MET:HG3	3	0.6	0.1	0.66
(1,970)	1:135:A:THR:HG23	1:18:A:MET:HG3	3	0.6	0.1	0.66
(1,691)	1:92:A:LEU:HD11	1:83:A:PHE:HE2	3	0.59	0.25	0.63
(1,691)	1:92:A:LEU:HD12	1:83:A:PHE:HE2	3	0.59	0.25	0.63
(1,691)	1:92:A:LEU:HD13	1:83:A:PHE:HE2	3	0.59	0.25	0.63
(1,1723)	1:75:B:LEU:HD11	1:95:B:LYS:HE2	3	0.59	0.23	0.65
(1,1723)	1:75:B:LEU:HD12	1:95:B:LYS:HE2	3	0.59	0.23	0.65
(1,1723)	1:75:B:LEU:HD13	1:95:B:LYS:HE2	3	0.59	0.23	0.65
(1,2494)	1:90:A:LYS:H	1:150:B:SER:HB2	3	0.59	0.38	0.46
(1,761)	1:99:A:LEU:HD21	1:19:A:THR:HA	3	0.57	0.2	0.53
(1,761)	1:99:A:LEU:HD22	1:19:A:THR:HA	3	0.57	0.2	0.53
(1,761)	1:99:A:LEU:HD23	1:19:A:THR:HA	3	0.57	0.2	0.53
(1,2444)	1:140:A:GLU:H	1:100:B:LYS:HD2	3	0.52	0.58	0.12
(1,1877)	1:92:B:LEU:H	1:94:B:ALA:HB2	3	0.52	0.46	0.22
(1,580)	1:78:A:LEU:HD11	1:95:A:LYS:HB2	3	0.5	0.37	0.38
(1,580)	1:78:A:LEU:HD12	1:95:A:LYS:HB2	3	0.5	0.37	0.38
(1,580)	1:78:A:LEU:HD13	1:95:A:LYS:HB2	3	0.5	0.37	0.38
(1,2400)	1:150:A:SER:H	1:90:B:LYS:HA	3	0.5	0.38	0.3
(1,2458)	1:97:A:GLU:H	1:143:B:LYS:HG2	3	0.49	0.0	0.49
(1,866)	1:120:A:GLU:H	1:120:A:GLU:HB3	3	0.48	0.16	0.47
(1,2457)	1:143:A:LYS:HG2	1:97:B:GLU:H	3	0.48	0.17	0.53
(1,2462)	1:97:A:GLU:H	1:143:B:LYS:HD2	3	0.48	0.27	0.43
(1,63)	1:18:A:MET:HE1	1:52:A:VAL:HA	3	0.47	0.25	0.57
(1,63)	1:18:A:MET:HE2	1:52:A:VAL:HA	3	0.47	0.25	0.57
(1,63)	1:18:A:MET:HE3	1:52:A:VAL:HA	3	0.47	0.25	0.57
(1,1436)	1:40:B:LEU:HD11	1:28:B:CYS:HB2	3	0.46	0.17	0.55
(1,1436)	1:40:B:LEU:HD12	1:28:B:CYS:HB2	3	0.46	0.17	0.55

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1436)	1:40:B:LEU:HD13	1:28:B:CYS:HB2	3	0.46	0.17	0.55
(1,2434)	1:144:A:ASN:H	1:97:B:GLU:HG3	3	0.45	0.21	0.35
(1,332)	1:48:A:ALA:HB1	1:18:A:MET:HB3	3	0.44	0.16	0.51
(1,332)	1:48:A:ALA:HB2	1:18:A:MET:HB3	3	0.44	0.16	0.51
(1,332)	1:48:A:ALA:HB3	1:18:A:MET:HB3	3	0.44	0.16	0.51
(1,1331)	1:24:B:ILE:HD11	1:146:B:GLU:HG3	3	0.44	0.21	0.29
(1,1331)	1:24:B:ILE:HD12	1:146:B:GLU:HG3	3	0.44	0.21	0.29
(1,1331)	1:24:B:ILE:HD13	1:146:B:GLU:HG3	3	0.44	0.21	0.29
(1,1116)	1:149:A:LEU:HD11	1:36:A:ILE:HG21	3	0.43	0.19	0.55
(1,1116)	1:149:A:LEU:HD11	1:36:A:ILE:HG22	3	0.43	0.19	0.55
(1,1116)	1:149:A:LEU:HD11	1:36:A:ILE:HG23	3	0.43	0.19	0.55
(1,1116)	1:149:A:LEU:HD12	1:36:A:ILE:HG21	3	0.43	0.19	0.55
(1,1116)	1:149:A:LEU:HD12	1:36:A:ILE:HG22	3	0.43	0.19	0.55
(1,1116)	1:149:A:LEU:HD12	1:36:A:ILE:HG23	3	0.43	0.19	0.55
(1,1116)	1:149:A:LEU:HD13	1:36:A:ILE:HG21	3	0.43	0.19	0.55
(1,1116)	1:149:A:LEU:HD13	1:36:A:ILE:HG22	3	0.43	0.19	0.55
(1,1116)	1:149:A:LEU:HD13	1:36:A:ILE:HG23	3	0.43	0.19	0.55
(1,2435)	1:97:A:GLU:HG2	1:144:B:ASN:H	3	0.43	0.45	0.11
(1,415)	1:59:A:LYS:H	1:60:A:ALA:H	3	0.42	0.21	0.3
(1,1654)	1:68:B:VAL:HG11	1:102:B:LYS:HE2	3	0.38	0.13	0.37
(1,1654)	1:68:B:VAL:HG12	1:102:B:LYS:HE2	3	0.38	0.13	0.37
(1,1654)	1:68:B:VAL:HG13	1:102:B:LYS:HE2	3	0.38	0.13	0.37
(1,935)	1:131:A:ALA:H	1:132:A:ARG:H	3	0.38	0.2	0.48
(1,2384)	1:151:A:ASP:H	1:90:B:LYS:HE2	3	0.38	0.14	0.31
(1,65)	1:18:A:MET:HE1	1:52:A:VAL:HG21	3	0.37	0.2	0.26
(1,65)	1:18:A:MET:HE1	1:52:A:VAL:HG22	3	0.37	0.2	0.26
(1,65)	1:18:A:MET:HE1	1:52:A:VAL:HG23	3	0.37	0.2	0.26
(1,65)	1:18:A:MET:HE2	1:52:A:VAL:HG21	3	0.37	0.2	0.26
(1,65)	1:18:A:MET:HE2	1:52:A:VAL:HG22	3	0.37	0.2	0.26
(1,65)	1:18:A:MET:HE2	1:52:A:VAL:HG23	3	0.37	0.2	0.26
(1,65)	1:18:A:MET:HE3	1:52:A:VAL:HG21	3	0.37	0.2	0.26
(1,65)	1:18:A:MET:HE3	1:52:A:VAL:HG22	3	0.37	0.2	0.26
(1,65)	1:18:A:MET:HE3	1:52:A:VAL:HG23	3	0.37	0.2	0.26
(1,800)	1:104:A:LYS:H	1:104:A:LYS:HG3	3	0.37	0.09	0.4
(1,2493)	1:150:A:SER:HB2	1:90:B:LYS:H	3	0.37	0.04	0.36
(1,701)	1:93:A:LYS:H	1:93:A:LYS:HD2	3	0.35	0.26	0.24
(1,526)	1:75:A:LEU:HD11	1:95:A:LYS:HB3	3	0.31	0.15	0.29
(1,526)	1:75:A:LEU:HD12	1:95:A:LYS:HB3	3	0.31	0.15	0.29
(1,526)	1:75:A:LEU:HD13	1:95:A:LYS:HB3	3	0.31	0.15	0.29
(1,506)	1:74:A:THR:H	1:74:A:THR:HG21	3	0.31	0.05	0.34
(1,506)	1:74:A:THR:H	1:74:A:THR:HG22	3	0.31	0.05	0.34
(1,506)	1:74:A:THR:H	1:74:A:THR:HG23	3	0.31	0.05	0.34

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1346)	1:25:B:ILE:HD11	1:79:B:VAL:HG11	3	0.3	0.15	0.2
(1,1346)	1:25:B:ILE:HD11	1:79:B:VAL:HG12	3	0.3	0.15	0.2
(1,1346)	1:25:B:ILE:HD11	1:79:B:VAL:HG13	3	0.3	0.15	0.2
(1,1346)	1:25:B:ILE:HD12	1:79:B:VAL:HG11	3	0.3	0.15	0.2
(1,1346)	1:25:B:ILE:HD12	1:79:B:VAL:HG12	3	0.3	0.15	0.2
(1,1346)	1:25:B:ILE:HD12	1:79:B:VAL:HG13	3	0.3	0.15	0.2
(1,1346)	1:25:B:ILE:HD13	1:79:B:VAL:HG11	3	0.3	0.15	0.2
(1,1346)	1:25:B:ILE:HD13	1:79:B:VAL:HG12	3	0.3	0.15	0.2
(1,1346)	1:25:B:ILE:HD13	1:79:B:VAL:HG13	3	0.3	0.15	0.2
(1,42)	1:17:A:ASP:HB3	1:18:A:MET:H	3	0.29	0.04	0.27
(1,380)	1:53:A:ARG:H	1:53:A:ARG:HG2	3	0.27	0.09	0.24
(1,380)	1:53:A:ARG:H	1:53:A:ARG:HG3	3	0.27	0.09	0.24
(1,2263)	1:146:B:GLU:H	1:146:B:GLU:HB3	3	0.27	0.12	0.33
(1,2381)	1:90:A:LYS:HE3	1:151:B:ASP:H	3	0.26	0.11	0.27
(1,1588)	1:55:B:GLY:HA3	1:57:B:LYS:H	3	0.25	0.17	0.14
(1,836)	1:114:A:LEU:H	1:114:A:LEU:HA	3	0.24	0.0	0.24
(1,2199)	1:140:B:GLU:H	1:140:B:GLU:HG3	3	0.24	0.01	0.24
(1,196)	1:31:A:GLN:H	1:31:A:GLN:HA	3	0.23	0.0	0.23
(1,1607)	1:59:B:LYS:HG2	1:60:B:ALA:H	3	0.23	0.11	0.16
(1,873)	1:121:A:THR:H	1:121:A:THR:HB	3	0.22	0.15	0.12
(1,1139)	1:152:A:LEU:H	1:152:A:LEU:HD11	3	0.22	0.08	0.18
(1,1139)	1:152:A:LEU:H	1:152:A:LEU:HD12	3	0.22	0.08	0.18
(1,1139)	1:152:A:LEU:H	1:152:A:LEU:HD13	3	0.22	0.08	0.18
(1,2118)	1:130:B:LEU:H	1:130:B:LEU:HA	3	0.21	0.01	0.21
(1,2122)	1:130:B:LEU:H	1:131:B:ALA:H	3	0.21	0.08	0.19
(1,889)	1:124:A:ARG:H	1:124:A:ARG:HB3	3	0.21	0.1	0.18
(1,13)	1:15:A:LEU:H	1:15:A:LEU:HG	3	0.2	0.04	0.22
(1,2337)	1:153:B:GLU:H	1:153:B:GLU:HB3	3	0.2	0.02	0.19
(1,321)	1:47:A:LEU:HD21	1:138:A:ASN:HA	3	0.18	0.06	0.14
(1,321)	1:47:A:LEU:HD22	1:138:A:ASN:HA	3	0.18	0.06	0.14
(1,321)	1:47:A:LEU:HD23	1:138:A:ASN:HA	3	0.18	0.06	0.14
(1,934)	1:131:A:ALA:H	1:131:A:ALA:HB1	3	0.18	0.04	0.18
(1,934)	1:131:A:ALA:H	1:131:A:ALA:HB2	3	0.18	0.04	0.18
(1,934)	1:131:A:ALA:H	1:131:A:ALA:HB3	3	0.18	0.04	0.18
(1,108)	1:22:A:GLU:H	1:23:A:ARG:H	3	0.17	0.03	0.16
(1,1441)	1:40:B:LEU:HD11	1:145:B:LEU:HB2	3	0.15	0.03	0.16
(1,1441)	1:40:B:LEU:HD12	1:145:B:LEU:HB2	3	0.15	0.03	0.16
(1,1441)	1:40:B:LEU:HD13	1:145:B:LEU:HB2	3	0.15	0.03	0.16
(1,2134)	1:134:B:LYS:H	1:134:B:LYS:HB2	3	0.14	0.03	0.13
(1,2339)	1:153:B:GLU:H	1:153:B:GLU:HG2	3	0.14	0.04	0.13
(1,1290)	1:21:B:GLY:HA3	1:24:B:ILE:H	3	0.14	0.02	0.14
(1,1606)	1:59:B:LYS:HB2	1:60:B:ALA:H	3	0.14	0.01	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1820)	1:83:B:PHE:HB3	1:84:B:ILE:H	3	0.14	0.03	0.14
(1,1549)	1:51:B:ASN:HA	1:54:B:LEU:H	3	0.13	0.01	0.13
(1,821)	1:108:A:LYS:H	1:108:A:LYS:HB2	3	0.13	0.02	0.12
(1,1814)	1:83:B:PHE:H	1:83:B:PHE:HB3	3	0.12	0.02	0.12
(1,1641)	1:68:B:VAL:H	1:68:B:VAL:HB	3	0.1	0.0	0.1
(1,977)	1:136:A:LEU:H	1:136:A:LEU:HD21	2	1.72	0.03	1.72
(1,977)	1:136:A:LEU:H	1:136:A:LEU:HD22	2	1.72	0.03	1.72
(1,977)	1:136:A:LEU:H	1:136:A:LEU:HD23	2	1.72	0.03	1.72
(1,2487)	1:147:A:LYS:HE3	1:94:B:ALA:HB1	2	1.38	0.55	1.38
(1,2487)	1:147:A:LYS:HE3	1:94:B:ALA:HB2	2	1.38	0.55	1.38
(1,2487)	1:147:A:LYS:HE3	1:94:B:ALA:HB3	2	1.38	0.55	1.38
(1,319)	1:47:A:LEU:HD11	1:138:A:ASN:HB3	2	1.29	0.24	1.29
(1,319)	1:47:A:LEU:HD12	1:138:A:ASN:HB3	2	1.29	0.24	1.29
(1,319)	1:47:A:LEU:HD13	1:138:A:ASN:HB3	2	1.29	0.24	1.29
(1,530)	1:75:A:LEU:HD11	1:95:A:LYS:HD3	2	0.97	0.21	0.97
(1,530)	1:75:A:LEU:HD12	1:95:A:LYS:HD3	2	0.97	0.21	0.97
(1,530)	1:75:A:LEU:HD13	1:95:A:LYS:HD3	2	0.97	0.21	0.97
(1,1881)	1:92:B:LEU:HD11	1:83:B:PHE:HE2	2	0.97	0.1	0.97
(1,1881)	1:92:B:LEU:HD12	1:83:B:PHE:HE2	2	0.97	0.1	0.97
(1,1881)	1:92:B:LEU:HD13	1:83:B:PHE:HE2	2	0.97	0.1	0.97
(1,1106)	1:149:A:LEU:H	1:149:A:LEU:HD21	2	0.94	0.16	0.94
(1,1106)	1:149:A:LEU:H	1:149:A:LEU:HD22	2	0.94	0.16	0.94
(1,1106)	1:149:A:LEU:H	1:149:A:LEU:HD23	2	0.94	0.16	0.94
(1,1882)	1:92:B:LEU:HD11	1:83:B:PHE:HZ	2	0.82	0.66	0.82
(1,1882)	1:92:B:LEU:HD12	1:83:B:PHE:HZ	2	0.82	0.66	0.82
(1,1882)	1:92:B:LEU:HD13	1:83:B:PHE:HZ	2	0.82	0.66	0.82
(1,246)	1:40:A:LEU:HD11	1:28:A:CYS:HB2	2	0.74	0.22	0.74
(1,246)	1:40:A:LEU:HD12	1:28:A:CYS:HB2	2	0.74	0.22	0.74
(1,246)	1:40:A:LEU:HD13	1:28:A:CYS:HB2	2	0.74	0.22	0.74
(1,531)	1:75:A:LEU:HD11	1:95:A:LYS:HD2	2	0.72	0.21	0.72
(1,531)	1:75:A:LEU:HD12	1:95:A:LYS:HD2	2	0.72	0.21	0.72
(1,531)	1:75:A:LEU:HD13	1:95:A:LYS:HD2	2	0.72	0.21	0.72
(1,969)	1:135:A:THR:HG21	1:18:A:MET:HA	2	0.72	0.5	0.72
(1,969)	1:135:A:THR:HG22	1:18:A:MET:HA	2	0.72	0.5	0.72
(1,969)	1:135:A:THR:HG23	1:18:A:MET:HA	2	0.72	0.5	0.72
(1,60)	1:18:A:MET:HE1	1:51:A:ASN:HB3	2	0.72	0.12	0.72
(1,60)	1:18:A:MET:HE2	1:51:A:ASN:HB3	2	0.72	0.12	0.72
(1,60)	1:18:A:MET:HE3	1:51:A:ASN:HB3	2	0.72	0.12	0.72
(1,245)	1:40:A:LEU:HD11	1:28:A:CYS:HB3	2	0.7	0.16	0.7
(1,245)	1:40:A:LEU:HD12	1:28:A:CYS:HB3	2	0.7	0.16	0.7
(1,245)	1:40:A:LEU:HD13	1:28:A:CYS:HB3	2	0.7	0.16	0.7
(1,1775)	1:78:B:LEU:HD11	1:95:B:LYS:HE3	2	0.7	0.05	0.7

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1775)	1:78:B:LEU:HD12	1:95:B:LYS:HE3	2	0.7	0.05	0.7
(1,1775)	1:78:B:LEU:HD13	1:95:B:LYS:HE3	2	0.7	0.05	0.7
(1,513)	1:74:A:THR:HG21	1:75:A:LEU:H	2	0.68	0.01	0.68
(1,513)	1:74:A:THR:HG22	1:75:A:LEU:H	2	0.68	0.01	0.68
(1,513)	1:74:A:THR:HG23	1:75:A:LEU:H	2	0.68	0.01	0.68
(1,654)	1:88:A:SER:H	1:88:A:SER:HG	2	0.66	0.36	0.66
(1,1250)	1:18:B:MET:HE1	1:51:B:ASN:HB3	2	0.64	0.38	0.64
(1,1250)	1:18:B:MET:HE2	1:51:B:ASN:HB3	2	0.64	0.38	0.64
(1,1250)	1:18:B:MET:HE3	1:51:B:ASN:HB3	2	0.64	0.38	0.64
(1,1647)	1:68:B:VAL:HG11	1:106:B:ARG:HG3	2	0.63	0.29	0.63
(1,1647)	1:68:B:VAL:HG12	1:106:B:ARG:HG3	2	0.63	0.29	0.63
(1,1647)	1:68:B:VAL:HG13	1:106:B:ARG:HG3	2	0.63	0.29	0.63
(1,2398)	1:150:A:SER:H	1:90:B:LYS:HG3	2	0.63	0.42	0.63
(1,2485)	1:147:A:LYS:HE2	1:94:B:ALA:H	2	0.62	0.4	0.62
(1,2461)	1:143:A:LYS:HD2	1:97:B:GLU:H	2	0.61	0.08	0.61
(1,2479)	1:147:A:LYS:HE3	1:93:B:LYS:H	2	0.59	0.4	0.59
(1,1728)	1:75:B:LEU:HD21	1:95:B:LYS:HG3	2	0.57	0.3	0.57
(1,1728)	1:75:B:LEU:HD22	1:95:B:LYS:HG3	2	0.57	0.3	0.57
(1,1728)	1:75:B:LEU:HD23	1:95:B:LYS:HG3	2	0.57	0.3	0.57
(1,1718)	1:75:B:LEU:HD11	1:95:B:LYS:HG3	2	0.54	0.07	0.54
(1,1718)	1:75:B:LEU:HD12	1:95:B:LYS:HG3	2	0.54	0.07	0.54
(1,1718)	1:75:B:LEU:HD13	1:95:B:LYS:HG3	2	0.54	0.07	0.54
(1,2399)	1:90:A:LYS:HA	1:150:B:SER:H	2	0.52	0.34	0.52
(1,2025)	1:113:B:GLU:H	1:114:B:LEU:H	2	0.52	0.26	0.52
(1,1010)	1:140:A:GLU:H	1:140:A:GLU:HG2	2	0.5	0.38	0.5
(1,1720)	1:75:B:LEU:HD11	1:95:B:LYS:HD3	2	0.5	0.18	0.5
(1,1720)	1:75:B:LEU:HD12	1:95:B:LYS:HD3	2	0.5	0.18	0.5
(1,1720)	1:75:B:LEU:HD13	1:95:B:LYS:HD3	2	0.5	0.18	0.5
(1,810)	1:105:A:MET:H	1:105:A:MET:HE1	2	0.5	0.09	0.5
(1,810)	1:105:A:MET:H	1:105:A:MET:HE2	2	0.5	0.09	0.5
(1,810)	1:105:A:MET:H	1:105:A:MET:HE3	2	0.5	0.09	0.5
(1,1148)	1:153:A:GLU:H	1:153:A:GLU:HG3	2	0.5	0.01	0.5
(1,1138)	1:152:A:LEU:H	1:152:A:LEU:HD21	2	0.48	0.12	0.48
(1,1138)	1:152:A:LEU:H	1:152:A:LEU:HD22	2	0.48	0.12	0.48
(1,1138)	1:152:A:LEU:H	1:152:A:LEU:HD23	2	0.48	0.12	0.48
(1,406)	1:57:A:LYS:H	1:57:A:LYS:HG2	2	0.46	0.07	0.46
(1,2464)	1:97:A:GLU:H	1:143:B:LYS:HE3	2	0.44	0.26	0.44
(1,2125)	1:131:B:ALA:H	1:132:B:ARG:H	2	0.44	0.2	0.44
(1,2163)	1:135:B:THR:HG21	1:51:B:ASN:HB2	2	0.44	0.08	0.44
(1,2163)	1:135:B:THR:HG22	1:51:B:ASN:HB2	2	0.44	0.08	0.44
(1,2163)	1:135:B:THR:HG23	1:51:B:ASN:HB2	2	0.44	0.08	0.44
(1,1114)	1:149:A:LEU:HD11	1:28:A:CYS:H	2	0.43	0.25	0.43

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1114)	1:149:A:LEU:HD12	1:28:A:CYS:H	2	0.43	0.25	0.43
(1,1114)	1:149:A:LEU:HD13	1:28:A:CYS:H	2	0.43	0.25	0.43
(1,762)	1:99:A:LEU:HD21	1:19:A:THR:HB	2	0.41	0.16	0.41
(1,762)	1:99:A:LEU:HD22	1:19:A:THR:HB	2	0.41	0.16	0.41
(1,762)	1:99:A:LEU:HD23	1:19:A:THR:HB	2	0.41	0.16	0.41
(1,2436)	1:144:A:ASN:H	1:97:B:GLU:HG2	2	0.4	0.07	0.4
(1,412)	1:59:A:LYS:H	1:59:A:LYS:HB3	2	0.4	0.07	0.4
(1,1357)	1:26:B:TYR:H	1:26:B:TYR:HB3	2	0.4	0.01	0.4
(1,2034)	1:116:B:ARG:H	1:116:B:ARG:HG3	2	0.36	0.15	0.36
(1,2020)	1:111:B:ILE:H	1:112:B:GLN:H	2	0.34	0.08	0.34
(1,2383)	1:90:A:LYS:HE2	1:151:B:ASP:H	2	0.34	0.17	0.34
(1,2002)	1:105:B:MET:H	1:105:B:MET:HB3	2	0.34	0.01	0.34
(1,968)	1:135:A:THR:HG21	1:18:A:MET:H	2	0.33	0.05	0.33
(1,968)	1:135:A:THR:HG22	1:18:A:MET:H	2	0.33	0.05	0.33
(1,968)	1:135:A:THR:HG23	1:18:A:MET:H	2	0.33	0.05	0.33
(1,2229)	1:143:B:LYS:H	1:143:B:LYS:HB3	2	0.33	0.06	0.33
(1,2017)	1:110:B:TRP:H	1:110:B:TRP:HB3	2	0.32	0.08	0.32
(1,1929)	1:97:B:GLU:H	1:97:B:GLU:HG2	2	0.31	0.1	0.31
(1,2018)	1:110:B:TRP:H	1:111:B:ILE:H	2	0.31	0.09	0.31
(1,320)	1:47:A:LEU:HD11	1:138:A:ASN:HB2	2	0.3	0.19	0.3
(1,320)	1:47:A:LEU:HD12	1:138:A:ASN:HB2	2	0.3	0.19	0.3
(1,320)	1:47:A:LEU:HD13	1:138:A:ASN:HB2	2	0.3	0.19	0.3
(1,1719)	1:75:B:LEU:HD11	1:95:B:LYS:HG2	2	0.3	0.01	0.3
(1,1719)	1:75:B:LEU:HD12	1:95:B:LYS:HG2	2	0.3	0.01	0.3
(1,1719)	1:75:B:LEU:HD13	1:95:B:LYS:HG2	2	0.3	0.01	0.3
(1,2052)	1:119:B:GLU:HA	1:121:B:THR:H	2	0.29	0.03	0.29
(1,374)	1:52:A:VAL:HG11	1:69:A:GLY:HA2	2	0.29	0.1	0.29
(1,374)	1:52:A:VAL:HG12	1:69:A:GLY:HA2	2	0.29	0.1	0.29
(1,374)	1:52:A:VAL:HG13	1:69:A:GLY:HA2	2	0.29	0.1	0.29
(1,243)	1:40:A:LEU:HD11	1:24:A:ILE:HB	2	0.27	0.09	0.27
(1,243)	1:40:A:LEU:HD12	1:24:A:ILE:HB	2	0.27	0.09	0.27
(1,243)	1:40:A:LEU:HD13	1:24:A:ILE:HB	2	0.27	0.09	0.27
(1,1042)	1:143:A:LYS:H	1:143:A:LYS:HG2	2	0.26	0.1	0.26
(1,157)	1:25:A:ILE:HD11	1:79:A:VAL:HG21	2	0.26	0.08	0.26
(1,157)	1:25:A:ILE:HD11	1:79:A:VAL:HG22	2	0.26	0.08	0.26
(1,157)	1:25:A:ILE:HD11	1:79:A:VAL:HG23	2	0.26	0.08	0.26
(1,157)	1:25:A:ILE:HD12	1:79:A:VAL:HG21	2	0.26	0.08	0.26
(1,157)	1:25:A:ILE:HD12	1:79:A:VAL:HG22	2	0.26	0.08	0.26
(1,157)	1:25:A:ILE:HD12	1:79:A:VAL:HG23	2	0.26	0.08	0.26
(1,157)	1:25:A:ILE:HD13	1:79:A:VAL:HG21	2	0.26	0.08	0.26
(1,157)	1:25:A:ILE:HD13	1:79:A:VAL:HG22	2	0.26	0.08	0.26
(1,157)	1:25:A:ILE:HD13	1:79:A:VAL:HG23	2	0.26	0.08	0.26

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,693)	1:92:A:LEU:HD21	1:83:A:PHE:HA	2	0.24	0.09	0.24
(1,693)	1:92:A:LEU:HD22	1:83:A:PHE:HA	2	0.24	0.09	0.24
(1,693)	1:92:A:LEU:HD23	1:83:A:PHE:HA	2	0.24	0.09	0.24
(1,929)	1:130:A:LEU:H	1:130:A:LEU:HB3	2	0.24	0.05	0.24
(1,829)	1:111:A:ILE:H	1:111:A:ILE:HA	2	0.24	0.0	0.24
(1,2123)	1:131:B:ALA:H	1:131:B:ALA:HA	2	0.22	0.01	0.22
(1,2121)	1:130:B:LEU:H	1:130:B:LEU:HG	2	0.22	0.08	0.22
(1,1774)	1:78:B:LEU:HD11	1:95:B:LYS:HD2	2	0.22	0.08	0.22
(1,1774)	1:78:B:LEU:HD12	1:95:B:LYS:HD2	2	0.22	0.08	0.22
(1,1774)	1:78:B:LEU:HD13	1:95:B:LYS:HD2	2	0.22	0.08	0.22
(1,2189)	1:139:B:GLU:H	1:139:B:GLU:HG3	2	0.21	0.04	0.21
(1,820)	1:108:A:LYS:H	1:108:A:LYS:HB3	2	0.2	0.06	0.2
(1,1199)	1:13:B:ARG:HA	1:14:B:ASP:H	2	0.2	0.09	0.2
(1,1435)	1:40:B:LEU:HD11	1:28:B:CYS:HB3	2	0.19	0.05	0.19
(1,1435)	1:40:B:LEU:HD12	1:28:B:CYS:HB3	2	0.19	0.05	0.19
(1,1435)	1:40:B:LEU:HD13	1:28:B:CYS:HB3	2	0.19	0.05	0.19
(1,47)	1:18:A:MET:H	1:18:A:MET:HG3	2	0.18	0.05	0.18
(1,1194)	1:13:B:ARG:H	1:13:B:ARG:HA	2	0.18	0.0	0.18
(1,2128)	1:133:B:MET:H	1:133:B:MET:HA	2	0.17	0.01	0.17
(1,1327)	1:24:B:ILE:HD11	1:41:B:THR:HA	2	0.16	0.06	0.16
(1,1327)	1:24:B:ILE:HD12	1:41:B:THR:HA	2	0.16	0.06	0.16
(1,1327)	1:24:B:ILE:HD13	1:41:B:THR:HA	2	0.16	0.06	0.16
(1,1703)	1:74:B:THR:HG21	1:75:B:LEU:H	2	0.16	0.01	0.16
(1,1703)	1:74:B:THR:HG22	1:75:B:LEU:H	2	0.16	0.01	0.16
(1,1703)	1:74:B:THR:HG23	1:75:B:LEU:H	2	0.16	0.01	0.16
(1,1183)	1:158:A:LYS:H	1:158:A:LYS:HB3	2	0.15	0.02	0.15
(1,1189)	1:158:A:LYS:H	1:158:A:LYS:HB3	2	0.15	0.02	0.15
(1,847)	1:117:A:ARG:H	1:117:A:ARG:HG3	2	0.15	0.04	0.15
(1,922)	1:128:A:ALA:H	1:129:A:GLU:H	2	0.15	0.0	0.15
(1,923)	1:128:A:ALA:H	1:130:A:LEU:H	2	0.15	0.0	0.15
(1,2136)	1:134:B:LYS:H	1:134:B:LYS:HG2	2	0.14	0.03	0.14
(1,2311)	1:150:B:SER:H	1:150:B:SER:HB2	2	0.14	0.03	0.14
(1,1011)	1:140:A:GLU:H	1:141:A:GLU:H	2	0.14	0.04	0.14
(1,2003)	1:105:B:MET:H	1:105:B:MET:HG2	2	0.14	0.01	0.14
(1,100)	1:21:A:GLY:HA3	1:24:A:ILE:H	2	0.13	0.02	0.13
(1,827)	1:110:A:TRP:H	1:110:A:TRP:HB3	2	0.12	0.02	0.12
(1,616)	1:82:A:SER:H	1:82:A:SER:HB2	2	0.12	0.01	0.12
(1,1661)	1:70:B:LEU:H	1:70:B:LEU:HB3	2	0.12	0.0	0.12
(1,192)	1:30:A:LYS:H	1:30:A:LYS:HB3	2	0.11	0.0	0.11
(1,1554)	1:52:B:VAL:H	1:52:B:VAL:HG11	2	0.11	0.0	0.11
(1,1554)	1:52:B:VAL:H	1:52:B:VAL:HG12	2	0.11	0.0	0.11
(1,1554)	1:52:B:VAL:H	1:52:B:VAL:HG13	2	0.11	0.0	0.11

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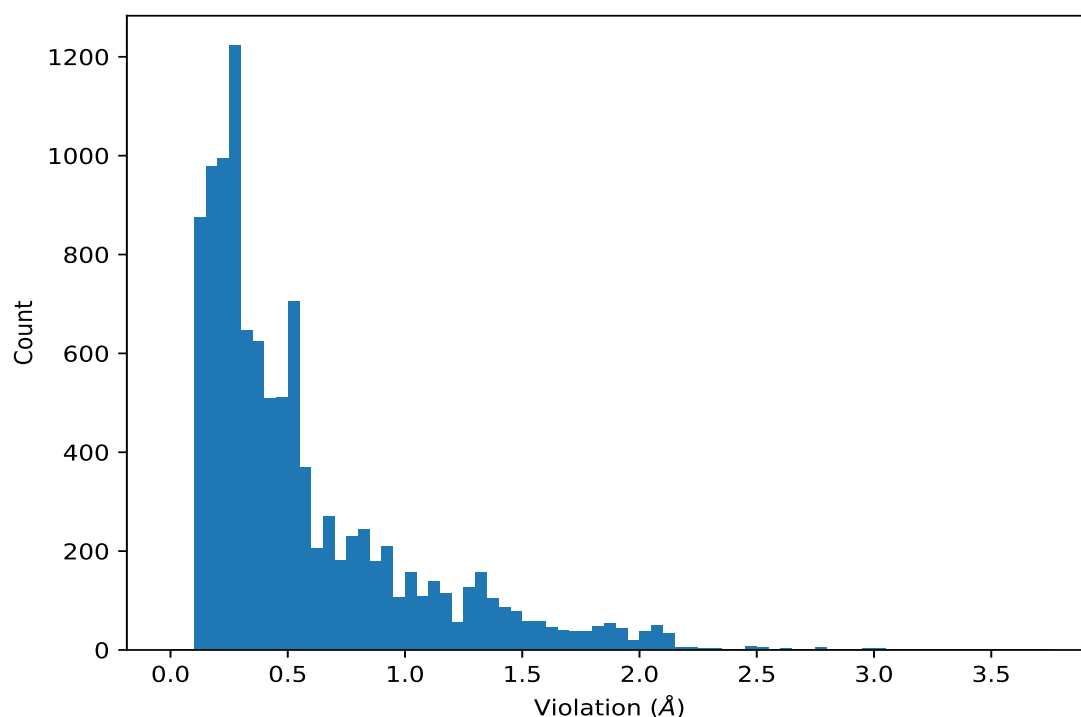
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1156)	1:154:A:ASN:H	1:154:A:ASN:HB3	2	0.1	0.0	0.1

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2482)	1:93:A:LYS:H	1:147:B:LYS:HE2	12	3.74
(1,2482)	1:93:A:LYS:H	1:147:B:LYS:HE2	11	3.6
(1,2446)	1:139:A:GLU:H	1:100:B:LYS:HE3	10	3.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2448)	1:139:A:GLU:H	1:100:B:LYS:HE2	10	3.55
(1,2474)	1:93:A:LYS:H	1:147:B:LYS:HG2	10	3.2
(1,2474)	1:93:A:LYS:H	1:147:B:LYS:HG2	9	3.18
(1,1167)	1:155:A:LYS:H	1:155:A:LYS:HE2	8	3.06
(1,2440)	1:140:A:GLU:H	1:100:B:LYS:HE2	10	3.05
(1,1167)	1:155:A:LYS:H	1:155:A:LYS:HE2	6	3.04
(1,2468)	1:93:A:LYS:H	1:147:B:LYS:HB3	9	3.02
(1,1167)	1:155:A:LYS:H	1:155:A:LYS:HE2	2	2.99
(1,2468)	1:93:A:LYS:H	1:147:B:LYS:HB3	10	2.98
(1,2481)	1:147:A:LYS:HE2	1:93:B:LYS:H	7	2.97
(1,2438)	1:140:A:GLU:H	1:100:B:LYS:HE3	10	2.96
(1,1167)	1:155:A:LYS:H	1:155:A:LYS:HE2	4	2.9
(1,2482)	1:93:A:LYS:H	1:147:B:LYS:HE2	15	2.85
(1,2468)	1:93:A:LYS:H	1:147:B:LYS:HB3	8	2.79
(1,1167)	1:155:A:LYS:H	1:155:A:LYS:HE2	1	2.76
(1,145)	1:24:A:ILE:HG21	1:146:A:GLU:HG3	4	2.76
(1,145)	1:24:A:ILE:HG22	1:146:A:GLU:HG3	4	2.76
(1,145)	1:24:A:ILE:HG23	1:146:A:GLU:HG3	4	2.76
(1,1167)	1:155:A:LYS:H	1:155:A:LYS:HE2	12	2.73
(1,1167)	1:155:A:LYS:H	1:155:A:LYS:HE2	9	2.69
(1,2482)	1:93:A:LYS:H	1:147:B:LYS:HE2	7	2.65
(1,2472)	1:93:A:LYS:H	1:147:B:LYS:HG3	9	2.62
(1,2468)	1:93:A:LYS:H	1:147:B:LYS:HB3	4	2.61
(1,2454)	1:96:A:GLU:H	1:143:B:LYS:HD2	12	2.59
(1,1167)	1:155:A:LYS:H	1:155:A:LYS:HE2	10	2.54
(1,1167)	1:155:A:LYS:H	1:155:A:LYS:HE2	14	2.54
(1,2483)	1:147:A:LYS:HE3	1:94:B:ALA:H	7	2.53
(1,2430)	1:143:A:LYS:H	1:97:B:GLU:HG3	6	2.53
(1,2468)	1:93:A:LYS:H	1:147:B:LYS:HB3	1	2.52
(1,2472)	1:93:A:LYS:H	1:147:B:LYS:HG3	10	2.47
(1,1167)	1:155:A:LYS:H	1:155:A:LYS:HE2	13	2.47
(1,146)	1:24:A:ILE:HG21	1:146:A:GLU:HG2	4	2.46
(1,146)	1:24:A:ILE:HG22	1:146:A:GLU:HG2	4	2.46
(1,146)	1:24:A:ILE:HG23	1:146:A:GLU:HG2	4	2.46
(1,2476)	1:93:A:LYS:H	1:147:B:LYS:HD3	8	2.45
(1,2474)	1:93:A:LYS:H	1:147:B:LYS:HG2	1	2.45
(1,2482)	1:93:A:LYS:H	1:147:B:LYS:HE2	10	2.34
(1,2474)	1:93:A:LYS:H	1:147:B:LYS:HG2	8	2.34
(1,2476)	1:93:A:LYS:H	1:147:B:LYS:HD3	13	2.31
(1,2453)	1:143:A:LYS:HD2	1:96:B:GLU:H	11	2.31
(1,665)	1:90:A:LYS:H	1:90:A:LYS:HD3	14	2.28
(1,2474)	1:93:A:LYS:H	1:147:B:LYS:HG2	4	2.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2448)	1:139:A:GLU:H	1:100:B:LYS:HE2	12	2.25
(1,2448)	1:139:A:GLU:H	1:100:B:LYS:HE2	7	2.24
(1,2448)	1:139:A:GLU:H	1:100:B:LYS:HE2	8	2.24
(1,2484)	1:94:A:ALA:H	1:147:B:LYS:HE3	7	2.22
(1,2429)	1:97:A:GLU:HG3	1:143:B:LYS:H	11	2.21
(1,2453)	1:143:A:LYS:HD2	1:96:B:GLU:H	2	2.2
(1,2478)	1:93:A:LYS:H	1:147:B:LYS:HD2	8	2.19
(1,2446)	1:139:A:GLU:H	1:100:B:LYS:HE3	12	2.18
(1,2476)	1:93:A:LYS:H	1:147:B:LYS:HD3	4	2.16
(1,1115)	1:149:A:LEU:HD11	1:28:A:CYS:HA	14	2.15
(1,1115)	1:149:A:LEU:HD12	1:28:A:CYS:HA	14	2.15
(1,1115)	1:149:A:LEU:HD13	1:28:A:CYS:HA	14	2.15
(1,2468)	1:93:A:LYS:H	1:147:B:LYS:HB3	13	2.14
(1,2481)	1:147:A:LYS:HE2	1:93:B:LYS:H	15	2.13
(1,2446)	1:139:A:GLU:H	1:100:B:LYS:HE3	8	2.12
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD11	11	2.12
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD12	11	2.12
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD13	11	2.12
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD11	11	2.12
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD12	11	2.12
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD13	11	2.12
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD11	11	2.12
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD12	11	2.12
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD13	11	2.12
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD21	9	2.12
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD22	9	2.12
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD23	9	2.12
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD21	9	2.12
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD22	9	2.12
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD23	9	2.12
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD21	9	2.12
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD22	9	2.12
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD23	9	2.12
(1,1115)	1:149:A:LEU:HD11	1:28:A:CYS:HA	1	2.11
(1,1115)	1:149:A:LEU:HD12	1:28:A:CYS:HA	1	2.11
(1,1115)	1:149:A:LEU:HD13	1:28:A:CYS:HA	1	2.11
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD21	15	2.11
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD22	15	2.11
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD23	15	2.11
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD21	15	2.11
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD22	15	2.11
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD23	15	2.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD21	15	2.11
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD22	15	2.11
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD23	15	2.11
(1,2419)	1:93:A:LYS:HE2	1:146:B:GLU:H	4	2.1
(1,2482)	1:93:A:LYS:H	1:147:B:LYS:HE2	5	2.08
(1,2417)	1:93:A:LYS:HE3	1:146:B:GLU:H	4	2.08
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD21	1	2.08
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD22	1	2.08
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD23	1	2.08
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD21	1	2.08
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD22	1	2.08
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD23	1	2.08
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD21	1	2.08
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD22	1	2.08
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD23	1	2.08
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD21	11	2.08
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD22	11	2.08
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD23	11	2.08
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD21	11	2.08
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD22	11	2.08
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD23	11	2.08
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD21	11	2.08
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD22	11	2.08
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD23	11	2.08
(1,2480)	1:93:A:LYS:H	1:147:B:LYS:HE3	12	2.07
(1,2478)	1:93:A:LYS:H	1:147:B:LYS:HD2	4	2.07
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD11	12	2.07
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD12	12	2.07
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD13	12	2.07
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD11	12	2.07
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD12	12	2.07
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD13	12	2.07
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD11	12	2.07
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD12	12	2.07
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD13	12	2.07
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD11	7	2.06
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD12	7	2.06
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD13	7	2.06
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD11	7	2.06
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD12	7	2.06
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD13	7	2.06
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD11	7	2.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD12	7	2.06
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD13	7	2.06
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD21	13	2.06
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD22	13	2.06
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD23	13	2.06
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD21	13	2.06
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD22	13	2.06
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD23	13	2.06
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD21	13	2.06
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD22	13	2.06
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD23	13	2.06
(1,2474)	1:93:A:LYS:H	1:147:B:LYS:HG2	12	2.05
(1,2429)	1:97:A:GLU:HG3	1:143:B:LYS:H	7	2.05
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG11	4	2.05
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG12	4	2.05
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG13	4	2.05
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG11	4	2.05
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG12	4	2.05
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG13	4	2.05
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG11	4	2.05
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG12	4	2.05
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG13	4	2.05
(1,2448)	1:139:A:GLU:H	1:100:B:LYS:HE2	9	2.04
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD21	14	2.04
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD22	14	2.04
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD23	14	2.04
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD21	14	2.04
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD22	14	2.04
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD23	14	2.04
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD21	14	2.04
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD22	14	2.04
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD23	14	2.04
(1,244)	1:40:A:LEU:HD21	1:24:A:ILE:HB	10	2.03
(1,244)	1:40:A:LEU:HD22	1:24:A:ILE:HB	10	2.03
(1,244)	1:40:A:LEU:HD23	1:24:A:ILE:HB	10	2.03
(1,2484)	1:94:A:ALA:H	1:147:B:LYS:HE3	12	2.02
(1,2468)	1:93:A:LYS:H	1:147:B:LYS:HB3	12	2.02
(1,2482)	1:93:A:LYS:H	1:147:B:LYS:HE2	8	2.01
(1,2476)	1:93:A:LYS:H	1:147:B:LYS:HD3	12	2.01
(1,2474)	1:93:A:LYS:H	1:147:B:LYS:HG2	11	2.0
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD21	4	2.0
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD22	4	2.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD23	4	2.0
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD21	4	2.0
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD22	4	2.0
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD23	4	2.0
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD21	4	2.0
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD22	4	2.0
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD23	4	2.0
(1,2476)	1:93:A:LYS:H	1:147:B:LYS:HD3	15	1.99
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD21	10	1.99
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD22	10	1.99
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD23	10	1.99
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD21	10	1.99
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD22	10	1.99
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD23	10	1.99
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD21	10	1.99
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD22	10	1.99
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD23	10	1.99
(1,2484)	1:94:A:ALA:H	1:147:B:LYS:HE3	15	1.96
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD21	2	1.96
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD22	2	1.96
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD23	2	1.96
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD21	2	1.96
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD22	2	1.96
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD23	2	1.96
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD21	2	1.96
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD22	2	1.96
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD23	2	1.96
(1,2474)	1:93:A:LYS:H	1:147:B:LYS:HG2	13	1.95
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD11	1	1.94
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD12	1	1.94
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD13	1	1.94
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD11	1	1.94
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD12	1	1.94
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD13	1	1.94
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD11	1	1.94
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD12	1	1.94
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD13	1	1.94
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD11	12	1.94
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD12	12	1.94
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD13	12	1.94
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD11	12	1.94
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD12	12	1.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD13	12	1.94
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD11	12	1.94
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD12	12	1.94
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD13	12	1.94
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD11	12	1.94
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD12	12	1.94
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD13	12	1.94
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD11	12	1.94
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD12	12	1.94
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD13	12	1.94
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD11	12	1.94
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD12	12	1.94
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD13	12	1.94
(1,2487)	1:147:A:LYS:HE3	1:94:B:ALA:HB1	7	1.93
(1,2487)	1:147:A:LYS:HE3	1:94:B:ALA:HB2	7	1.93
(1,2487)	1:147:A:LYS:HE3	1:94:B:ALA:HB3	7	1.93
(1,2468)	1:93:A:LYS:H	1:147:B:LYS:HB3	6	1.93
(1,2440)	1:140:A:GLU:H	1:100:B:LYS:HE2	7	1.93
(1,1115)	1:149:A:LEU:HD11	1:28:A:CYS:HA	2	1.93
(1,1115)	1:149:A:LEU:HD12	1:28:A:CYS:HA	2	1.93
(1,1115)	1:149:A:LEU:HD13	1:28:A:CYS:HA	2	1.93
(1,164)	1:25:A:ILE:HG21	1:83:A:PHE:HE2	11	1.93
(1,164)	1:25:A:ILE:HG22	1:83:A:PHE:HE2	11	1.93
(1,164)	1:25:A:ILE:HG23	1:83:A:PHE:HE2	11	1.93
(1,61)	1:18:A:MET:HE1	1:51:A:ASN:HB2	7	1.93
(1,61)	1:18:A:MET:HE2	1:51:A:ASN:HB2	7	1.93
(1,61)	1:18:A:MET:HE3	1:51:A:ASN:HB2	7	1.93
(1,2470)	1:93:A:LYS:H	1:147:B:LYS:HB2	8	1.92
(1,2470)	1:93:A:LYS:H	1:147:B:LYS:HB2	10	1.92
(1,2468)	1:93:A:LYS:H	1:147:B:LYS:HB3	11	1.89
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD11	11	1.89
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD12	11	1.89
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD13	11	1.89
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD11	11	1.89
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD12	11	1.89
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD13	11	1.89
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD11	11	1.89
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD12	11	1.89
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD13	11	1.89
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD21	5	1.89
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD22	5	1.89
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD23	5	1.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD21	5	1.89
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD22	5	1.89
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD23	5	1.89
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD21	5	1.89
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD22	5	1.89
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD23	5	1.89
(1,2476)	1:93:A:LYS:H	1:147:B:LYS:HD3	1	1.88
(1,2430)	1:143:A:LYS:H	1:97:B:GLU:HG3	7	1.88
(1,1166)	1:155:A:LYS:H	1:155:A:LYS:HE3	4	1.88
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD11	4	1.88
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD12	4	1.88
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD13	4	1.88
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD21	8	1.88
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD22	8	1.88
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD23	8	1.88
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD21	8	1.88
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD22	8	1.88
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD23	8	1.88
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD21	8	1.88
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD22	8	1.88
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD23	8	1.88
(1,1166)	1:155:A:LYS:H	1:155:A:LYS:HE3	10	1.87
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD11	5	1.87
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD12	5	1.87
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD13	5	1.87
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD11	5	1.87
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD12	5	1.87
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD13	5	1.87
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD11	5	1.87
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD12	5	1.87
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD13	5	1.87
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD21	12	1.87
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD22	12	1.87
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD23	12	1.87
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD21	12	1.87
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD22	12	1.87
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD23	12	1.87
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD21	12	1.87
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD22	12	1.87
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD23	12	1.87
(1,2454)	1:96:A:GLU:H	1:143:B:LYS:HD2	8	1.85
(1,2470)	1:93:A:LYS:H	1:147:B:LYS:HB2	9	1.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2448)	1:139:A:GLU:H	1:100:B:LYS:HE2	6	1.84
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD11	5	1.84
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD12	5	1.84
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD13	5	1.84
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD11	5	1.84
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD12	5	1.84
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD13	5	1.84
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD11	5	1.84
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD12	5	1.84
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD13	5	1.84
(1,132)	1:24:A:ILE:HD11	1:40:A:LEU:HB3	4	1.84
(1,132)	1:24:A:ILE:HD12	1:40:A:LEU:HB3	4	1.84
(1,132)	1:24:A:ILE:HD13	1:40:A:LEU:HB3	4	1.84
(1,2480)	1:93:A:LYS:H	1:147:B:LYS:HE3	11	1.82
(1,1166)	1:155:A:LYS:H	1:155:A:LYS:HE3	12	1.82
(1,256)	1:40:A:LEU:HD21	1:145:A:LEU:HD11	6	1.82
(1,256)	1:40:A:LEU:HD21	1:145:A:LEU:HD12	6	1.82
(1,256)	1:40:A:LEU:HD21	1:145:A:LEU:HD13	6	1.82
(1,256)	1:40:A:LEU:HD22	1:145:A:LEU:HD11	6	1.82
(1,256)	1:40:A:LEU:HD22	1:145:A:LEU:HD12	6	1.82
(1,256)	1:40:A:LEU:HD22	1:145:A:LEU:HD13	6	1.82
(1,256)	1:40:A:LEU:HD23	1:145:A:LEU:HD11	6	1.82
(1,256)	1:40:A:LEU:HD23	1:145:A:LEU:HD12	6	1.82
(1,256)	1:40:A:LEU:HD23	1:145:A:LEU:HD13	6	1.82
(1,2454)	1:96:A:GLU:H	1:143:B:LYS:HD2	4	1.81
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD11	13	1.81
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD12	13	1.81
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD13	13	1.81
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD11	13	1.81
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD12	13	1.81
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD13	13	1.81
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD11	13	1.81
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD12	13	1.81
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD13	13	1.81
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD11	10	1.81
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD12	10	1.81
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD13	10	1.81
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD11	10	1.81
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD12	10	1.81
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD13	10	1.81
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD11	10	1.81
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD12	10	1.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD13	10	1.81
(1,163)	1:25:A:ILE:HG21	1:83:A:PHE:HZ	5	1.81
(1,163)	1:25:A:ILE:HG22	1:83:A:PHE:HZ	5	1.81
(1,163)	1:25:A:ILE:HG23	1:83:A:PHE:HZ	5	1.81
(1,2455)	1:143:A:LYS:HG3	1:97:B:GLU:H	11	1.8
(1,1166)	1:155:A:LYS:H	1:155:A:LYS:HE3	1	1.79
(1,25)	1:15:A:LEU:HD11	1:103:A:ALA:HA	12	1.79
(1,25)	1:15:A:LEU:HD12	1:103:A:ALA:HA	12	1.79
(1,25)	1:15:A:LEU:HD13	1:103:A:ALA:HA	12	1.79
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD21	7	1.78
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD22	7	1.78
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD23	7	1.78
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD21	7	1.78
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD22	7	1.78
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD23	7	1.78
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD21	7	1.78
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD22	7	1.78
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD23	7	1.78
(1,55)	1:18:A:MET:HE1	1:48:A:ALA:HA	5	1.77
(1,55)	1:18:A:MET:HE2	1:48:A:ALA:HA	5	1.77
(1,55)	1:18:A:MET:HE3	1:48:A:ALA:HA	5	1.77
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD11	11	1.76
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD12	11	1.76
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD13	11	1.76
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD11	11	1.76
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD12	11	1.76
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD13	11	1.76
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD11	11	1.76
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD12	11	1.76
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD13	11	1.76
(1,55)	1:18:A:MET:HE1	1:48:A:ALA:HA	7	1.76
(1,55)	1:18:A:MET:HE2	1:48:A:ALA:HA	7	1.76
(1,55)	1:18:A:MET:HE3	1:48:A:ALA:HA	7	1.76
(1,2484)	1:94:A:ALA:H	1:147:B:LYS:HE3	11	1.75
(1,2453)	1:143:A:LYS:HD2	1:96:B:GLU:H	10	1.75
(1,2432)	1:143:A:LYS:H	1:97:B:GLU:HG2	6	1.75
(1,977)	1:136:A:LEU:H	1:136:A:LEU:HD21	5	1.75
(1,977)	1:136:A:LEU:H	1:136:A:LEU:HD22	5	1.75
(1,977)	1:136:A:LEU:H	1:136:A:LEU:HD23	5	1.75
(1,697)	1:92:A:LEU:HD21	1:26:A:TYR:HE1	15	1.75
(1,697)	1:92:A:LEU:HD22	1:26:A:TYR:HE1	15	1.75
(1,697)	1:92:A:LEU:HD23	1:26:A:TYR:HE1	15	1.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1354)	1:25:B:ILE:HG21	1:83:B:PHE:HE2	15	1.74
(1,1354)	1:25:B:ILE:HG22	1:83:B:PHE:HE2	15	1.74
(1,1354)	1:25:B:ILE:HG23	1:83:B:PHE:HE2	15	1.74
(1,2475)	1:147:A:LYS:HD3	1:93:B:LYS:H	7	1.73
(1,1776)	1:78:B:LEU:HD11	1:95:B:LYS:HE2	4	1.73
(1,1776)	1:78:B:LEU:HD12	1:95:B:LYS:HE2	4	1.73
(1,1776)	1:78:B:LEU:HD13	1:95:B:LYS:HE2	4	1.73
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD11	6	1.73
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD12	6	1.73
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD13	6	1.73
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD11	6	1.73
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD12	6	1.73
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD13	6	1.73
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD11	6	1.73
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD12	6	1.73
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD13	6	1.73
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD11	13	1.73
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD12	13	1.73
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD13	13	1.73
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD11	13	1.73
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD12	13	1.73
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD13	13	1.73
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD11	13	1.73
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD12	13	1.73
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD13	13	1.73
(1,163)	1:25:A:ILE:HG21	1:83:A:PHE:HZ	12	1.73
(1,163)	1:25:A:ILE:HG22	1:83:A:PHE:HZ	12	1.73
(1,163)	1:25:A:ILE:HG23	1:83:A:PHE:HZ	12	1.73
(1,137)	1:24:A:ILE:HD11	1:41:A:THR:HA	10	1.73
(1,137)	1:24:A:ILE:HD12	1:41:A:THR:HA	10	1.73
(1,137)	1:24:A:ILE:HD13	1:41:A:THR:HA	10	1.73
(1,1731)	1:75:B:LEU:HD21	1:95:B:LYS:HE3	15	1.71
(1,1731)	1:75:B:LEU:HD22	1:95:B:LYS:HE3	15	1.71
(1,1731)	1:75:B:LEU:HD23	1:95:B:LYS:HE3	15	1.71
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD21	9	1.71
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD22	9	1.71
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD23	9	1.71
(1,2448)	1:139:A:GLU:H	1:100:B:LYS:HE2	1	1.7
(1,2440)	1:140:A:GLU:H	1:100:B:LYS:HE2	11	1.7
(1,839)	1:114:A:LEU:H	1:114:A:LEU:HG	11	1.7
(1,145)	1:24:A:ILE:HG21	1:146:A:GLU:HG3	8	1.7
(1,145)	1:24:A:ILE:HG22	1:146:A:GLU:HG3	8	1.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,145)	1:24:A:ILE:HG23	1:146:A:GLU:HG3	8	1.7
(1,2471)	1:147:A:LYS:HG3	1:93:B:LYS:H	14	1.69
(1,2470)	1:93:A:LYS:H	1:147:B:LYS:HB2	1	1.69
(1,2440)	1:140:A:GLU:H	1:100:B:LYS:HE2	8	1.69
(1,977)	1:136:A:LEU:H	1:136:A:LEU:HD21	12	1.69
(1,977)	1:136:A:LEU:H	1:136:A:LEU:HD22	12	1.69
(1,977)	1:136:A:LEU:H	1:136:A:LEU:HD23	12	1.69
(1,2476)	1:93:A:LYS:H	1:147:B:LYS:HD3	11	1.68
(1,141)	1:24:A:ILE:HD11	1:146:A:GLU:HG3	10	1.68
(1,141)	1:24:A:ILE:HD12	1:146:A:GLU:HG3	10	1.68
(1,141)	1:24:A:ILE:HD13	1:146:A:GLU:HG3	10	1.68
(1,2484)	1:94:A:ALA:H	1:147:B:LYS:HE3	6	1.67
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD21	6	1.67
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD22	6	1.67
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD23	6	1.67
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD21	6	1.67
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD22	6	1.67
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD23	6	1.67
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD21	6	1.67
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD22	6	1.67
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD23	6	1.67
(1,1166)	1:155:A:LYS:H	1:155:A:LYS:HE3	14	1.66
(1,1031)	1:142:A:ILE:HD11	1:145:A:LEU:HD11	4	1.66
(1,1031)	1:142:A:ILE:HD11	1:145:A:LEU:HD12	4	1.66
(1,1031)	1:142:A:ILE:HD11	1:145:A:LEU:HD13	4	1.66
(1,1031)	1:142:A:ILE:HD12	1:145:A:LEU:HD11	4	1.66
(1,1031)	1:142:A:ILE:HD12	1:145:A:LEU:HD12	4	1.66
(1,1031)	1:142:A:ILE:HD12	1:145:A:LEU:HD13	4	1.66
(1,1031)	1:142:A:ILE:HD13	1:145:A:LEU:HD11	4	1.66
(1,1031)	1:142:A:ILE:HD13	1:145:A:LEU:HD12	4	1.66
(1,1031)	1:142:A:ILE:HD13	1:145:A:LEU:HD13	4	1.66
(1,695)	1:92:A:LEU:HD21	1:83:A:PHE:HE2	8	1.66
(1,695)	1:92:A:LEU:HD22	1:83:A:PHE:HE2	8	1.66
(1,695)	1:92:A:LEU:HD23	1:83:A:PHE:HE2	8	1.66
(1,1353)	1:25:B:ILE:HG21	1:83:B:PHE:HZ	7	1.65
(1,1353)	1:25:B:ILE:HG22	1:83:B:PHE:HZ	7	1.65
(1,1353)	1:25:B:ILE:HG23	1:83:B:PHE:HZ	7	1.65
(1,164)	1:25:A:ILE:HG21	1:83:A:PHE:HE2	5	1.65
(1,164)	1:25:A:ILE:HG22	1:83:A:PHE:HE2	5	1.65
(1,164)	1:25:A:ILE:HG23	1:83:A:PHE:HE2	5	1.65
(1,164)	1:25:A:ILE:HG21	1:83:A:PHE:HE2	10	1.65
(1,164)	1:25:A:ILE:HG22	1:83:A:PHE:HE2	10	1.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,164)	1:25:A:ILE:HG23	1:83:A:PHE:HE2	10	1.65
(1,2475)	1:147:A:LYS:HD3	1:93:B:LYS:H	15	1.64
(1,2447)	1:100:A:LYS:HE2	1:139:B:GLU:H	5	1.64
(1,142)	1:24:A:ILE:HD11	1:146:A:GLU:HG2	10	1.64
(1,142)	1:24:A:ILE:HD12	1:146:A:GLU:HG2	10	1.64
(1,142)	1:24:A:ILE:HD13	1:146:A:GLU:HG2	10	1.64
(1,2446)	1:139:A:GLU:H	1:100:B:LYS:HE3	7	1.63
(1,1115)	1:149:A:LEU:HD11	1:28:A:CYS:HA	9	1.63
(1,1115)	1:149:A:LEU:HD12	1:28:A:CYS:HA	9	1.63
(1,1115)	1:149:A:LEU:HD13	1:28:A:CYS:HA	9	1.63
(1,839)	1:114:A:LEU:H	1:114:A:LEU:HG	12	1.63
(1,322)	1:47:A:LEU:HD21	1:138:A:ASN:HB3	4	1.63
(1,322)	1:47:A:LEU:HD22	1:138:A:ASN:HB3	4	1.63
(1,322)	1:47:A:LEU:HD23	1:138:A:ASN:HB3	4	1.63
(1,1731)	1:75:B:LEU:HD21	1:95:B:LYS:HE3	3	1.61
(1,1731)	1:75:B:LEU:HD22	1:95:B:LYS:HE3	3	1.61
(1,1731)	1:75:B:LEU:HD23	1:95:B:LYS:HE3	3	1.61
(1,163)	1:25:A:ILE:HG21	1:83:A:PHE:HZ	4	1.61
(1,163)	1:25:A:ILE:HG22	1:83:A:PHE:HZ	4	1.61
(1,163)	1:25:A:ILE:HG23	1:83:A:PHE:HZ	4	1.61
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG21	3	1.61
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG22	3	1.61
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG23	3	1.61
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG21	3	1.61
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG22	3	1.61
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG23	3	1.61
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG21	3	1.61
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG22	3	1.61
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG23	3	1.61
(1,2454)	1:96:A:GLU:H	1:143:B:LYS:HD2	9	1.6
(1,2448)	1:139:A:GLU:H	1:100:B:LYS:HE2	11	1.6
(1,2440)	1:140:A:GLU:H	1:100:B:LYS:HE2	12	1.6
(1,2407)	1:93:A:LYS:HG2	1:147:B:LYS:H	4	1.6
(1,1722)	1:75:B:LEU:HD11	1:95:B:LYS:HE3	3	1.6
(1,1722)	1:75:B:LEU:HD12	1:95:B:LYS:HE3	3	1.6
(1,1722)	1:75:B:LEU:HD13	1:95:B:LYS:HE3	3	1.6
(1,417)	1:59:A:LYS:HG2	1:60:A:ALA:H	2	1.6
(1,2432)	1:143:A:LYS:H	1:97:B:GLU:HG2	7	1.59
(1,1887)	1:92:B:LEU:HD21	1:26:B:TYR:HE1	8	1.59
(1,1887)	1:92:B:LEU:HD22	1:26:B:TYR:HE1	8	1.59
(1,1887)	1:92:B:LEU:HD23	1:26:B:TYR:HE1	8	1.59
(1,163)	1:25:A:ILE:HG21	1:83:A:PHE:HZ	8	1.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,163)	1:25:A:ILE:HG22	1:83:A:PHE:HZ	8	1.59
(1,163)	1:25:A:ILE:HG23	1:83:A:PHE:HZ	8	1.59
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG21	2	1.59
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG22	2	1.59
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG23	2	1.59
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG21	2	1.59
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG22	2	1.59
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG23	2	1.59
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG21	2	1.59
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG22	2	1.59
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG23	2	1.59
(1,966)	1:135:A:THR:HG21	1:17:A:ASP:HB3	2	1.58
(1,966)	1:135:A:THR:HG22	1:17:A:ASP:HB3	2	1.58
(1,966)	1:135:A:THR:HG23	1:17:A:ASP:HB3	2	1.58
(1,541)	1:75:A:LEU:HD21	1:95:A:LYS:HE3	3	1.58
(1,541)	1:75:A:LEU:HD22	1:95:A:LYS:HE3	3	1.58
(1,541)	1:75:A:LEU:HD23	1:95:A:LYS:HE3	3	1.58
(1,2452)	1:137:A:GLU:H	1:104:B:LYS:HE2	9	1.57
(1,697)	1:92:A:LEU:HD21	1:26:A:TYR:HE1	11	1.57
(1,697)	1:92:A:LEU:HD22	1:26:A:TYR:HE1	11	1.57
(1,697)	1:92:A:LEU:HD23	1:26:A:TYR:HE1	11	1.57
(1,697)	1:92:A:LEU:HD21	1:26:A:TYR:HE1	14	1.57
(1,697)	1:92:A:LEU:HD22	1:26:A:TYR:HE1	14	1.57
(1,697)	1:92:A:LEU:HD23	1:26:A:TYR:HE1	14	1.57
(1,695)	1:92:A:LEU:HD21	1:83:A:PHE:HE2	12	1.57
(1,695)	1:92:A:LEU:HD22	1:83:A:PHE:HE2	12	1.57
(1,695)	1:92:A:LEU:HD23	1:83:A:PHE:HE2	12	1.57
(1,2488)	1:94:A:ALA:HB1	1:147:B:LYS:HE3	7	1.56
(1,2488)	1:94:A:ALA:HB2	1:147:B:LYS:HE3	7	1.56
(1,2488)	1:94:A:ALA:HB3	1:147:B:LYS:HE3	7	1.56
(1,2471)	1:147:A:LYS:HG3	1:93:B:LYS:H	10	1.56
(1,2430)	1:143:A:LYS:H	1:97:B:GLU:HG3	5	1.56
(1,1166)	1:155:A:LYS:H	1:155:A:LYS:HE3	13	1.56
(1,2430)	1:143:A:LYS:H	1:97:B:GLU:HG3	13	1.55
(1,2429)	1:97:A:GLU:HG3	1:143:B:LYS:H	1	1.55
(1,2429)	1:97:A:GLU:HG3	1:143:B:LYS:H	3	1.55
(1,1732)	1:75:B:LEU:HD21	1:95:B:LYS:HE2	5	1.55
(1,1732)	1:75:B:LEU:HD22	1:95:B:LYS:HE2	5	1.55
(1,1732)	1:75:B:LEU:HD23	1:95:B:LYS:HE2	5	1.55
(1,665)	1:90:A:LYS:H	1:90:A:LYS:HD3	11	1.55
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD11	15	1.55
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD12	15	1.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD13	15	1.55
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD11	15	1.55
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD12	15	1.55
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD13	15	1.55
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD11	15	1.55
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD12	15	1.55
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD13	15	1.55
(1,143)	1:24:A:ILE:HG21	1:142:A:ILE:HB	9	1.55
(1,143)	1:24:A:ILE:HG22	1:142:A:ILE:HB	9	1.55
(1,143)	1:24:A:ILE:HG23	1:142:A:ILE:HB	9	1.55
(1,2475)	1:147:A:LYS:HD3	1:93:B:LYS:H	8	1.54
(1,2305)	1:149:B:LEU:HD11	1:28:B:CYS:HA	3	1.54
(1,2305)	1:149:B:LEU:HD12	1:28:B:CYS:HA	3	1.54
(1,2305)	1:149:B:LEU:HD13	1:28:B:CYS:HA	3	1.54
(1,650)	1:87:A:THR:HG21	1:88:A:SER:H	9	1.54
(1,650)	1:87:A:THR:HG22	1:88:A:SER:H	9	1.54
(1,650)	1:87:A:THR:HG23	1:88:A:SER:H	9	1.54
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD11	7	1.54
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD12	7	1.54
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD13	7	1.54
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD11	7	1.54
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD12	7	1.54
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD13	7	1.54
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD11	7	1.54
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD12	7	1.54
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD13	7	1.54
(1,2470)	1:93:A:LYS:H	1:147:B:LYS:HB2	4	1.53
(1,319)	1:47:A:LEU:HD11	1:138:A:ASN:HB3	10	1.53
(1,319)	1:47:A:LEU:HD12	1:138:A:ASN:HB3	10	1.53
(1,319)	1:47:A:LEU:HD13	1:138:A:ASN:HB3	10	1.53
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD21	8	1.53
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD22	8	1.53
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD23	8	1.53
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD21	8	1.53
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD22	8	1.53
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD23	8	1.53
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD21	8	1.53
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD22	8	1.53
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD23	8	1.53
(1,2429)	1:97:A:GLU:HG3	1:143:B:LYS:H	15	1.52
(1,2156)	1:135:B:THR:HG21	1:17:B:ASP:HB3	6	1.52
(1,2156)	1:135:B:THR:HG22	1:17:B:ASP:HB3	6	1.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2156)	1:135:B:THR:HG23	1:17:B:ASP:HB3	6	1.52
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB1	12	1.52
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB2	12	1.52
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB3	12	1.52
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB1	12	1.52
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB2	12	1.52
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB3	12	1.52
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB1	12	1.52
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB2	12	1.52
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB3	12	1.52
(1,2480)	1:93:A:LYS:H	1:147:B:LYS:HE3	15	1.51
(1,2475)	1:147:A:LYS:HD3	1:93:B:LYS:H	6	1.51
(1,2440)	1:140:A:GLU:H	1:100:B:LYS:HE2	6	1.51
(1,2440)	1:140:A:GLU:H	1:100:B:LYS:HE2	9	1.51
(1,2429)	1:97:A:GLU:HG3	1:143:B:LYS:H	13	1.51
(1,2305)	1:149:B:LEU:HD11	1:28:B:CYS:HA	5	1.51
(1,2305)	1:149:B:LEU:HD12	1:28:B:CYS:HA	5	1.51
(1,2305)	1:149:B:LEU:HD13	1:28:B:CYS:HA	5	1.51
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD21	8	1.51
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD22	8	1.51
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD23	8	1.51
(1,2480)	1:93:A:LYS:H	1:147:B:LYS:HE3	6	1.5
(1,247)	1:40:A:LEU:HD21	1:28:A:CYS:HB2	1	1.5
(1,247)	1:40:A:LEU:HD22	1:28:A:CYS:HB2	1	1.5
(1,247)	1:40:A:LEU:HD23	1:28:A:CYS:HB2	1	1.5
(1,1730)	1:75:B:LEU:HD21	1:95:B:LYS:HD3	15	1.49
(1,1730)	1:75:B:LEU:HD22	1:95:B:LYS:HD3	15	1.49
(1,1730)	1:75:B:LEU:HD23	1:95:B:LYS:HD3	15	1.49
(1,1525)	1:48:B:ALA:HB1	1:18:B:MET:HG2	5	1.49
(1,1525)	1:48:B:ALA:HB2	1:18:B:MET:HG2	5	1.49
(1,1525)	1:48:B:ALA:HB3	1:18:B:MET:HG2	5	1.49
(1,1119)	1:149:A:LEU:HD21	1:28:A:CYS:HA	2	1.49
(1,1119)	1:149:A:LEU:HD22	1:28:A:CYS:HA	2	1.49
(1,1119)	1:149:A:LEU:HD23	1:28:A:CYS:HA	2	1.49
(1,650)	1:87:A:THR:HG21	1:88:A:SER:H	13	1.49
(1,650)	1:87:A:THR:HG22	1:88:A:SER:H	13	1.49
(1,650)	1:87:A:THR:HG23	1:88:A:SER:H	13	1.49
(1,540)	1:75:A:LEU:HD21	1:95:A:LYS:HD3	15	1.49
(1,540)	1:75:A:LEU:HD22	1:95:A:LYS:HD3	15	1.49
(1,540)	1:75:A:LEU:HD23	1:95:A:LYS:HD3	15	1.49
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG21	15	1.49
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG22	15	1.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG23	15	1.49
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG21	15	1.49
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG22	15	1.49
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG23	15	1.49
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG21	15	1.49
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG22	15	1.49
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG23	15	1.49
(1,2438)	1:140:A:GLU:H	1:100:B:LYS:HE3	7	1.48
(1,1882)	1:92:B:LEU:HD11	1:83:B:PHE:HZ	11	1.48
(1,1882)	1:92:B:LEU:HD12	1:83:B:PHE:HZ	11	1.48
(1,1882)	1:92:B:LEU:HD13	1:83:B:PHE:HZ	11	1.48
(1,247)	1:40:A:LEU:HD21	1:28:A:CYS:HB2	13	1.48
(1,247)	1:40:A:LEU:HD22	1:28:A:CYS:HB2	13	1.48
(1,247)	1:40:A:LEU:HD23	1:28:A:CYS:HB2	13	1.48
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD21	4	1.48
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD22	4	1.48
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD23	4	1.48
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD21	4	1.48
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD22	4	1.48
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD23	4	1.48
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD21	4	1.48
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD22	4	1.48
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD23	4	1.48
(1,1251)	1:18:B:MET:HE1	1:51:B:ASN:HB2	7	1.47
(1,1251)	1:18:B:MET:HE2	1:51:B:ASN:HB2	7	1.47
(1,1251)	1:18:B:MET:HE3	1:51:B:ASN:HB2	7	1.47
(1,1115)	1:149:A:LEU:HD11	1:28:A:CYS:HA	7	1.47
(1,1115)	1:149:A:LEU:HD12	1:28:A:CYS:HA	7	1.47
(1,1115)	1:149:A:LEU:HD13	1:28:A:CYS:HA	7	1.47
(1,696)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	10	1.47
(1,696)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	10	1.47
(1,696)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	10	1.47
(1,694)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	10	1.47
(1,694)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	10	1.47
(1,694)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	10	1.47
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD11	4	1.47
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD12	4	1.47
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD13	4	1.47
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD11	4	1.47
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD12	4	1.47
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD13	4	1.47
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD11	4	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD12	4	1.47
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD13	4	1.47
(1,2447)	1:100:A:LYS:HE2	1:139:B:GLU:H	8	1.46
(1,2156)	1:135:B:THR:HG21	1:17:B:ASP:HB3	14	1.46
(1,2156)	1:135:B:THR:HG22	1:17:B:ASP:HB3	14	1.46
(1,2156)	1:135:B:THR:HG23	1:17:B:ASP:HB3	14	1.46
(1,1730)	1:75:B:LEU:HD21	1:95:B:LYS:HD3	8	1.46
(1,1730)	1:75:B:LEU:HD22	1:95:B:LYS:HD3	8	1.46
(1,1730)	1:75:B:LEU:HD23	1:95:B:LYS:HD3	8	1.46
(1,417)	1:59:A:LYS:HG2	1:60:A:ALA:H	3	1.46
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD11	13	1.46
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD12	13	1.46
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD13	13	1.46
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD11	13	1.46
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD12	13	1.46
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD13	13	1.46
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD11	13	1.46
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD12	13	1.46
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD13	13	1.46
(1,1167)	1:155:A:LYS:H	1:155:A:LYS:HE2	11	1.45
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD11	7	1.44
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD12	7	1.44
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD13	7	1.44
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD11	7	1.44
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD12	7	1.44
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD13	7	1.44
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD11	7	1.44
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD12	7	1.44
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD13	7	1.44
(1,165)	1:25:A:ILE:HG21	1:83:A:PHE:HE1	8	1.44
(1,165)	1:25:A:ILE:HG22	1:83:A:PHE:HE1	8	1.44
(1,165)	1:25:A:ILE:HG23	1:83:A:PHE:HE1	8	1.44
(1,2472)	1:93:A:LYS:H	1:147:B:LYS:HG3	1	1.43
(1,2452)	1:137:A:GLU:H	1:104:B:LYS:HE2	13	1.43
(1,1729)	1:75:B:LEU:HD21	1:95:B:LYS:HG2	5	1.43
(1,1729)	1:75:B:LEU:HD22	1:95:B:LYS:HG2	5	1.43
(1,1729)	1:75:B:LEU:HD23	1:95:B:LYS:HG2	5	1.43
(1,890)	1:124:A:ARG:H	1:124:A:ARG:HB2	8	1.43
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD11	14	1.43
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD12	14	1.43
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD13	14	1.43
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD11	14	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD12	14	1.43
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD13	14	1.43
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD11	14	1.43
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD12	14	1.43
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD13	14	1.43
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG21	13	1.43
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG22	13	1.43
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG23	13	1.43
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG21	13	1.43
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG22	13	1.43
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG23	13	1.43
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG21	13	1.43
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG22	13	1.43
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG23	13	1.43
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB1	11	1.43
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB2	11	1.43
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB3	11	1.43
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB1	11	1.43
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB2	11	1.43
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB3	11	1.43
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB1	11	1.43
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB2	11	1.43
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB3	11	1.43
(1,2438)	1:140:A:GLU:H	1:100:B:LYS:HE3	8	1.42
(1,2395)	1:90:A:LYS:HD2	1:150:B:SER:H	14	1.42
(1,1166)	1:155:A:LYS:H	1:155:A:LYS:HE3	11	1.42
(1,890)	1:124:A:ARG:H	1:124:A:ARG:HB2	13	1.42
(1,695)	1:92:A:LEU:HD21	1:83:A:PHE:HE2	6	1.42
(1,695)	1:92:A:LEU:HD22	1:83:A:PHE:HE2	6	1.42
(1,695)	1:92:A:LEU:HD23	1:83:A:PHE:HE2	6	1.42
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD11	4	1.42
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD12	4	1.42
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD13	4	1.42
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD11	4	1.42
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD12	4	1.42
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD13	4	1.42
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD11	4	1.42
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD12	4	1.42
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD13	4	1.42
(1,586)	1:78:A:LEU:HD11	1:95:A:LYS:HE2	5	1.42
(1,586)	1:78:A:LEU:HD12	1:95:A:LYS:HE2	5	1.42
(1,586)	1:78:A:LEU:HD13	1:95:A:LYS:HE2	5	1.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,463)	1:68:A:VAL:HG11	1:102:A:LYS:HE3	11	1.42
(1,463)	1:68:A:VAL:HG12	1:102:A:LYS:HE3	11	1.42
(1,463)	1:68:A:VAL:HG13	1:102:A:LYS:HE3	11	1.42
(1,2492)	1:90:A:LYS:H	1:150:B:SER:HB3	6	1.41
(1,2450)	1:137:A:GLU:H	1:104:B:LYS:HE3	1	1.41
(1,2305)	1:149:B:LEU:HD11	1:28:B:CYS:HA	14	1.41
(1,2305)	1:149:B:LEU:HD12	1:28:B:CYS:HA	14	1.41
(1,2305)	1:149:B:LEU:HD13	1:28:B:CYS:HA	14	1.41
(1,539)	1:75:A:LEU:HD21	1:95:A:LYS:HG2	4	1.41
(1,539)	1:75:A:LEU:HD22	1:95:A:LYS:HG2	4	1.41
(1,539)	1:75:A:LEU:HD23	1:95:A:LYS:HG2	4	1.41
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB1	12	1.41
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB2	12	1.41
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB3	12	1.41
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB1	12	1.41
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB2	12	1.41
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB3	12	1.41
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB1	12	1.41
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB2	12	1.41
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB3	12	1.41
(1,2478)	1:93:A:LYS:H	1:147:B:LYS:HD2	6	1.4
(1,2454)	1:96:A:GLU:H	1:143:B:LYS:HD2	2	1.4
(1,2452)	1:137:A:GLU:H	1:104:B:LYS:HE2	4	1.4
(1,2439)	1:100:A:LYS:HE2	1:140:B:GLU:H	5	1.4
(1,1721)	1:75:B:LEU:HD11	1:95:B:LYS:HD2	7	1.4
(1,1721)	1:75:B:LEU:HD12	1:95:B:LYS:HD2	7	1.4
(1,1721)	1:75:B:LEU:HD13	1:95:B:LYS:HD2	7	1.4
(1,967)	1:135:A:THR:HG21	1:17:A:ASP:HB2	3	1.4
(1,967)	1:135:A:THR:HG22	1:17:A:ASP:HB2	3	1.4
(1,967)	1:135:A:THR:HG23	1:17:A:ASP:HB2	3	1.4
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD11	6	1.4
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD12	6	1.4
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD13	6	1.4
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD11	6	1.4
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD12	6	1.4
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD13	6	1.4
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD11	6	1.4
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD12	6	1.4
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD13	6	1.4
(1,334)	1:48:A:ALA:HB1	1:18:A:MET:HG3	8	1.4
(1,334)	1:48:A:ALA:HB2	1:18:A:MET:HG3	8	1.4
(1,334)	1:48:A:ALA:HB3	1:18:A:MET:HG3	8	1.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2429)	1:97:A:GLU:HG3	1:143:B:LYS:H	9	1.39
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD21	1	1.39
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD22	1	1.39
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD23	1	1.39
(1,665)	1:90:A:LYS:H	1:90:A:LYS:HD3	1	1.39
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD21	3	1.39
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD22	3	1.39
(1,253)	1:40:A:LEU:HD11	1:145:A:LEU:HD23	3	1.39
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD21	3	1.39
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD22	3	1.39
(1,253)	1:40:A:LEU:HD12	1:145:A:LEU:HD23	3	1.39
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD21	3	1.39
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD22	3	1.39
(1,253)	1:40:A:LEU:HD13	1:145:A:LEU:HD23	3	1.39
(1,2452)	1:137:A:GLU:H	1:104:B:LYS:HE2	1	1.38
(1,2446)	1:139:A:GLU:H	1:100:B:LYS:HE3	1	1.38
(1,2157)	1:135:B:THR:HG21	1:17:B:ASP:HB2	6	1.38
(1,2157)	1:135:B:THR:HG22	1:17:B:ASP:HB2	6	1.38
(1,2157)	1:135:B:THR:HG23	1:17:B:ASP:HB2	6	1.38
(1,796)	1:103:A:ALA:HB1	1:15:A:LEU:HB2	12	1.38
(1,796)	1:103:A:ALA:HB2	1:15:A:LEU:HB2	12	1.38
(1,796)	1:103:A:ALA:HB3	1:15:A:LEU:HB2	12	1.38
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD11	14	1.38
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD12	14	1.38
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD13	14	1.38
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD11	14	1.38
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD12	14	1.38
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD13	14	1.38
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD11	14	1.38
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD12	14	1.38
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD13	14	1.38
(1,533)	1:75:A:LEU:HD11	1:95:A:LYS:HE2	13	1.38
(1,533)	1:75:A:LEU:HD12	1:95:A:LYS:HE2	13	1.38
(1,533)	1:75:A:LEU:HD13	1:95:A:LYS:HE2	13	1.38
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB1	7	1.38
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB2	7	1.38
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB3	7	1.38
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB1	7	1.38
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB2	7	1.38
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB3	7	1.38
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB1	7	1.38
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB2	7	1.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB3	7	1.38
(1,55)	1:18:A:MET:HE1	1:48:A:ALA:HA	4	1.38
(1,55)	1:18:A:MET:HE2	1:48:A:ALA:HA	4	1.38
(1,55)	1:18:A:MET:HE3	1:48:A:ALA:HA	4	1.38
(1,2480)	1:93:A:LYS:H	1:147:B:LYS:HE3	8	1.37
(1,2476)	1:93:A:LYS:H	1:147:B:LYS:HD3	6	1.37
(1,2475)	1:147:A:LYS:HD3	1:93:B:LYS:H	10	1.37
(1,2455)	1:143:A:LYS:HG3	1:97:B:GLU:H	2	1.37
(1,2433)	1:97:A:GLU:HG3	1:144:B:ASN:H	9	1.37
(1,1886)	1:92:B:LEU:HD21	1:83:B:PHE:HZ	12	1.37
(1,1886)	1:92:B:LEU:HD22	1:83:B:PHE:HZ	12	1.37
(1,1886)	1:92:B:LEU:HD23	1:83:B:PHE:HZ	12	1.37
(1,1884)	1:92:B:LEU:HD21	1:83:B:PHE:HZ	12	1.37
(1,1884)	1:92:B:LEU:HD22	1:83:B:PHE:HZ	12	1.37
(1,1884)	1:92:B:LEU:HD23	1:83:B:PHE:HZ	12	1.37
(1,890)	1:124:A:ARG:H	1:124:A:ARG:HB2	11	1.37
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG21	1	1.37
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG22	1	1.37
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG23	1	1.37
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG21	1	1.37
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG22	1	1.37
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG23	1	1.37
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG21	1	1.37
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG22	1	1.37
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG23	1	1.37
(1,2480)	1:93:A:LYS:H	1:147:B:LYS:HE3	7	1.36
(1,2438)	1:140:A:GLU:H	1:100:B:LYS:HE3	12	1.36
(1,839)	1:114:A:LEU:H	1:114:A:LEU:HG	1	1.36
(1,334)	1:48:A:ALA:HB1	1:18:A:MET:HG3	4	1.36
(1,334)	1:48:A:ALA:HB2	1:18:A:MET:HG3	4	1.36
(1,334)	1:48:A:ALA:HB3	1:18:A:MET:HG3	4	1.36
(1,247)	1:40:A:LEU:HD21	1:28:A:CYS:HB2	11	1.36
(1,247)	1:40:A:LEU:HD22	1:28:A:CYS:HB2	11	1.36
(1,247)	1:40:A:LEU:HD23	1:28:A:CYS:HB2	11	1.36
(1,540)	1:75:A:LEU:HD21	1:95:A:LYS:HD3	7	1.35
(1,540)	1:75:A:LEU:HD22	1:95:A:LYS:HD3	7	1.35
(1,540)	1:75:A:LEU:HD23	1:95:A:LYS:HD3	7	1.35
(1,322)	1:47:A:LEU:HD21	1:138:A:ASN:HB3	12	1.35
(1,322)	1:47:A:LEU:HD22	1:138:A:ASN:HB3	12	1.35
(1,322)	1:47:A:LEU:HD23	1:138:A:ASN:HB3	12	1.35
(1,2470)	1:93:A:LYS:H	1:147:B:LYS:HB2	13	1.34
(1,2468)	1:93:A:LYS:H	1:147:B:LYS:HB3	15	1.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2444)	1:140:A:GLU:H	1:100:B:LYS:HD2	10	1.34
(1,2431)	1:97:A:GLU:HG2	1:143:B:LYS:H	11	1.34
(1,2417)	1:93:A:LYS:HE3	1:146:B:GLU:H	5	1.34
(1,1776)	1:78:B:LEU:HD11	1:95:B:LYS:HE2	8	1.34
(1,1776)	1:78:B:LEU:HD12	1:95:B:LYS:HE2	8	1.34
(1,1776)	1:78:B:LEU:HD13	1:95:B:LYS:HE2	8	1.34
(1,1730)	1:75:B:LEU:HD21	1:95:B:LYS:HD3	4	1.34
(1,1730)	1:75:B:LEU:HD22	1:95:B:LYS:HD3	4	1.34
(1,1730)	1:75:B:LEU:HD23	1:95:B:LYS:HD3	4	1.34
(1,665)	1:90:A:LYS:H	1:90:A:LYS:HD3	9	1.34
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD11	1	1.34
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD12	1	1.34
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD13	1	1.34
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD11	1	1.34
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD12	1	1.34
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD13	1	1.34
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD11	1	1.34
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD12	1	1.34
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD13	1	1.34
(1,1649)	1:68:B:VAL:HG11	1:106:B:ARG:HD3	6	1.33
(1,1649)	1:68:B:VAL:HG12	1:106:B:ARG:HD3	6	1.33
(1,1649)	1:68:B:VAL:HG13	1:106:B:ARG:HD3	6	1.33
(1,1563)	1:52:B:VAL:HG11	1:69:B:GLY:HA3	4	1.33
(1,1563)	1:52:B:VAL:HG12	1:69:B:GLY:HA3	4	1.33
(1,1563)	1:52:B:VAL:HG13	1:69:B:GLY:HA3	4	1.33
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD11	14	1.33
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD12	14	1.33
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD13	14	1.33
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD11	14	1.33
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD12	14	1.33
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD13	14	1.33
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD11	14	1.33
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD12	14	1.33
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD13	14	1.33
(1,665)	1:90:A:LYS:H	1:90:A:LYS:HD3	4	1.33
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD11	4	1.33
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD12	4	1.33
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD13	4	1.33
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD11	4	1.33
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD12	4	1.33
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD13	4	1.33
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD11	4	1.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD12	4	1.33
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD13	4	1.33
(1,163)	1:25:A:ILE:HG21	1:83:A:PHE:HZ	9	1.33
(1,163)	1:25:A:ILE:HG22	1:83:A:PHE:HZ	9	1.33
(1,163)	1:25:A:ILE:HG23	1:83:A:PHE:HZ	9	1.33
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD21	6	1.33
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD22	6	1.33
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD23	6	1.33
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD21	6	1.33
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD22	6	1.33
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD23	6	1.33
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD21	6	1.33
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD22	6	1.33
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD23	6	1.33
(1,2475)	1:147:A:LYS:HD3	1:93:B:LYS:H	4	1.32
(1,2455)	1:143:A:LYS:HG3	1:97:B:GLU:H	10	1.32
(1,2440)	1:140:A:GLU:H	1:100:B:LYS:HE2	1	1.32
(1,2029)	1:114:B:LEU:H	1:114:B:LEU:HG	8	1.32
(1,1887)	1:92:B:LEU:HD21	1:26:B:TYR:HE1	9	1.32
(1,1887)	1:92:B:LEU:HD22	1:26:B:TYR:HE1	9	1.32
(1,1887)	1:92:B:LEU:HD23	1:26:B:TYR:HE1	9	1.32
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD11	4	1.32
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD12	4	1.32
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD13	4	1.32
(1,696)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	9	1.32
(1,696)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	9	1.32
(1,696)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	9	1.32
(1,694)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	9	1.32
(1,694)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	9	1.32
(1,694)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	9	1.32
(1,665)	1:90:A:LYS:H	1:90:A:LYS:HD3	13	1.32
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD11	5	1.32
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD12	5	1.32
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD13	5	1.32
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD11	5	1.32
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD12	5	1.32
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD13	5	1.32
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD11	5	1.32
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD12	5	1.32
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD13	5	1.32
(1,2447)	1:100:A:LYS:HE2	1:139:B:GLU:H	15	1.31
(1,2438)	1:140:A:GLU:H	1:100:B:LYS:HE3	11	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2430)	1:143:A:LYS:H	1:97:B:GLU:HG3	8	1.31
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD21	13	1.31
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD22	13	1.31
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD23	13	1.31
(1,839)	1:114:A:LEU:H	1:114:A:LEU:HG	13	1.31
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD11	10	1.31
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD12	10	1.31
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD13	10	1.31
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD11	10	1.31
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD12	10	1.31
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD13	10	1.31
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD11	10	1.31
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD12	10	1.31
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD13	10	1.31
(1,164)	1:25:A:ILE:HG21	1:83:A:PHE:HE2	9	1.31
(1,164)	1:25:A:ILE:HG22	1:83:A:PHE:HE2	9	1.31
(1,164)	1:25:A:ILE:HG23	1:83:A:PHE:HE2	9	1.31
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB1	5	1.31
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB2	5	1.31
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB3	5	1.31
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB1	5	1.31
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB2	5	1.31
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB3	5	1.31
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB1	5	1.31
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB2	5	1.31
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB3	5	1.31
(1,2491)	1:150:A:SER:HB3	1:90:B:LYS:H	7	1.3
(1,2482)	1:93:A:LYS:H	1:147:B:LYS:HE2	6	1.3
(1,1726)	1:75:B:LEU:HD21	1:95:B:LYS:HB3	4	1.3
(1,1726)	1:75:B:LEU:HD22	1:95:B:LYS:HB3	4	1.3
(1,1726)	1:75:B:LEU:HD23	1:95:B:LYS:HB3	4	1.3
(1,1166)	1:155:A:LYS:H	1:155:A:LYS:HE3	6	1.3
(1,966)	1:135:A:THR:HG21	1:17:A:ASP:HB3	13	1.3
(1,966)	1:135:A:THR:HG22	1:17:A:ASP:HB3	13	1.3
(1,966)	1:135:A:THR:HG23	1:17:A:ASP:HB3	13	1.3
(1,696)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	1	1.3
(1,696)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	1	1.3
(1,696)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	1	1.3
(1,694)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	1	1.3
(1,694)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	1	1.3
(1,694)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	1	1.3
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD21	12	1.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD22	12	1.3
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD23	12	1.3
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD21	12	1.3
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD22	12	1.3
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD23	12	1.3
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD21	12	1.3
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD22	12	1.3
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD23	12	1.3
(1,540)	1:75:A:LEU:HD21	1:95:A:LYS:HD3	1	1.3
(1,540)	1:75:A:LEU:HD22	1:95:A:LYS:HD3	1	1.3
(1,540)	1:75:A:LEU:HD23	1:95:A:LYS:HD3	1	1.3
(1,540)	1:75:A:LEU:HD21	1:95:A:LYS:HD3	2	1.3
(1,540)	1:75:A:LEU:HD22	1:95:A:LYS:HD3	2	1.3
(1,540)	1:75:A:LEU:HD23	1:95:A:LYS:HD3	2	1.3
(1,322)	1:47:A:LEU:HD21	1:138:A:ASN:HB3	8	1.3
(1,322)	1:47:A:LEU:HD22	1:138:A:ASN:HB3	8	1.3
(1,322)	1:47:A:LEU:HD23	1:138:A:ASN:HB3	8	1.3
(1,164)	1:25:A:ILE:HG21	1:83:A:PHE:HE2	6	1.3
(1,164)	1:25:A:ILE:HG22	1:83:A:PHE:HE2	6	1.3
(1,164)	1:25:A:ILE:HG23	1:83:A:PHE:HE2	6	1.3
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD21	10	1.3
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD22	10	1.3
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD23	10	1.3
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD21	10	1.3
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD22	10	1.3
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD23	10	1.3
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD21	10	1.3
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD22	10	1.3
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD23	10	1.3
(1,2472)	1:93:A:LYS:H	1:147:B:LYS:HG3	8	1.29
(1,697)	1:92:A:LEU:HD21	1:26:A:TYR:HE1	10	1.29
(1,697)	1:92:A:LEU:HD22	1:26:A:TYR:HE1	10	1.29
(1,697)	1:92:A:LEU:HD23	1:26:A:TYR:HE1	10	1.29
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD11	6	1.29
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD12	6	1.29
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD13	6	1.29
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD11	6	1.29
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD12	6	1.29
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD13	6	1.29
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD11	6	1.29
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD12	6	1.29
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD13	6	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,541)	1:75:A:LEU:HD21	1:95:A:LYS:HE3	5	1.29
(1,541)	1:75:A:LEU:HD22	1:95:A:LYS:HE3	5	1.29
(1,541)	1:75:A:LEU:HD23	1:95:A:LYS:HE3	5	1.29
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD11	6	1.29
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD12	6	1.29
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD13	6	1.29
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD11	11	1.29
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD12	11	1.29
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD13	11	1.29
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD11	11	1.29
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD12	11	1.29
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD13	11	1.29
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD11	11	1.29
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD12	11	1.29
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD13	11	1.29
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD21	9	1.29
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD22	9	1.29
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD23	9	1.29
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD21	9	1.29
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD22	9	1.29
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD23	9	1.29
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD21	9	1.29
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD22	9	1.29
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD23	9	1.29
(1,64)	1:18:A:MET:HE1	1:52:A:VAL:HB	8	1.29
(1,64)	1:18:A:MET:HE2	1:52:A:VAL:HB	8	1.29
(1,64)	1:18:A:MET:HE3	1:52:A:VAL:HB	8	1.29
(1,2446)	1:139:A:GLU:H	1:100:B:LYS:HE3	11	1.28
(1,1564)	1:52:B:VAL:HG11	1:69:B:GLY:HA2	4	1.28
(1,1564)	1:52:B:VAL:HG12	1:69:B:GLY:HA2	4	1.28
(1,1564)	1:52:B:VAL:HG13	1:69:B:GLY:HA2	4	1.28
(1,1353)	1:25:B:ILE:HG21	1:83:B:PHE:HZ	8	1.28
(1,1353)	1:25:B:ILE:HG22	1:83:B:PHE:HZ	8	1.28
(1,1353)	1:25:B:ILE:HG23	1:83:B:PHE:HZ	8	1.28
(1,1166)	1:155:A:LYS:H	1:155:A:LYS:HE3	2	1.28
(1,839)	1:114:A:LEU:H	1:114:A:LEU:HG	9	1.28
(1,254)	1:40:A:LEU:HD21	1:145:A:LEU:HB3	6	1.28
(1,254)	1:40:A:LEU:HD22	1:145:A:LEU:HB3	6	1.28
(1,254)	1:40:A:LEU:HD23	1:145:A:LEU:HB3	6	1.28
(1,163)	1:25:A:ILE:HG21	1:83:A:PHE:HZ	6	1.28
(1,163)	1:25:A:ILE:HG22	1:83:A:PHE:HZ	6	1.28
(1,163)	1:25:A:ILE:HG23	1:83:A:PHE:HZ	6	1.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2475)	1:147:A:LYS:HD3	1:93:B:LYS:H	9	1.27
(1,2469)	1:147:A:LYS:HB2	1:93:B:LYS:H	10	1.27
(1,2403)	1:93:A:LYS:HB2	1:147:B:LYS:H	9	1.27
(1,1354)	1:25:B:ILE:HG21	1:83:B:PHE:HE2	6	1.27
(1,1354)	1:25:B:ILE:HG22	1:83:B:PHE:HE2	6	1.27
(1,1354)	1:25:B:ILE:HG23	1:83:B:PHE:HE2	6	1.27
(1,650)	1:87:A:THR:HG21	1:88:A:SER:H	8	1.27
(1,650)	1:87:A:THR:HG22	1:88:A:SER:H	8	1.27
(1,650)	1:87:A:THR:HG23	1:88:A:SER:H	8	1.27
(1,576)	1:78:A:LEU:HD11	1:79:A:VAL:H	3	1.27
(1,576)	1:78:A:LEU:HD12	1:79:A:VAL:H	3	1.27
(1,576)	1:78:A:LEU:HD13	1:79:A:VAL:H	3	1.27
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD11	2	1.27
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD12	2	1.27
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD13	2	1.27
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD11	2	1.27
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD12	2	1.27
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD13	2	1.27
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD11	2	1.27
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD12	2	1.27
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD13	2	1.27
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB1	4	1.27
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB2	4	1.27
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB3	4	1.27
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB1	4	1.27
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB2	4	1.27
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB3	4	1.27
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB1	4	1.27
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB2	4	1.27
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB3	4	1.27
(1,839)	1:114:A:LEU:H	1:114:A:LEU:HG	8	1.26
(1,539)	1:75:A:LEU:HD21	1:95:A:LYS:HG2	6	1.26
(1,539)	1:75:A:LEU:HD22	1:95:A:LYS:HG2	6	1.26
(1,539)	1:75:A:LEU:HD23	1:95:A:LYS:HG2	6	1.26
(1,322)	1:47:A:LEU:HD21	1:138:A:ASN:HB3	13	1.26
(1,322)	1:47:A:LEU:HD22	1:138:A:ASN:HB3	13	1.26
(1,322)	1:47:A:LEU:HD23	1:138:A:ASN:HB3	13	1.26
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD21	11	1.26
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD22	11	1.26
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD23	11	1.26
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD21	11	1.26
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD22	11	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD23	11	1.26
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD21	11	1.26
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD22	11	1.26
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD23	11	1.26
(1,2475)	1:147:A:LYS:HD3	1:93:B:LYS:H	5	1.25
(1,2450)	1:137:A:GLU:H	1:104:B:LYS:HE3	9	1.25
(1,2433)	1:97:A:GLU:HG3	1:144:B:ASN:H	13	1.25
(1,890)	1:124:A:ARG:H	1:124:A:ARG:HB2	10	1.25
(1,695)	1:92:A:LEU:HD21	1:83:A:PHE:HE2	4	1.25
(1,695)	1:92:A:LEU:HD22	1:83:A:PHE:HE2	4	1.25
(1,695)	1:92:A:LEU:HD23	1:83:A:PHE:HE2	4	1.25
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB1	13	1.25
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB2	13	1.25
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB3	13	1.25
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB1	13	1.25
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB2	13	1.25
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB3	13	1.25
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB1	13	1.25
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB2	13	1.25
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB3	13	1.25
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG21	6	1.25
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG22	6	1.25
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG23	6	1.25
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG21	6	1.25
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG22	6	1.25
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG23	6	1.25
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG21	6	1.25
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG22	6	1.25
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG23	6	1.25
(1,2446)	1:139:A:GLU:H	1:100:B:LYS:HE3	4	1.24
(1,540)	1:75:A:LEU:HD21	1:95:A:LYS:HD3	8	1.24
(1,540)	1:75:A:LEU:HD22	1:95:A:LYS:HD3	8	1.24
(1,540)	1:75:A:LEU:HD23	1:95:A:LYS:HD3	8	1.24
(1,247)	1:40:A:LEU:HD21	1:28:A:CYS:HB2	2	1.24
(1,247)	1:40:A:LEU:HD22	1:28:A:CYS:HB2	2	1.24
(1,247)	1:40:A:LEU:HD23	1:28:A:CYS:HB2	2	1.24
(1,2491)	1:150:A:SER:HB3	1:90:B:LYS:H	15	1.23
(1,2307)	1:149:B:LEU:HD21	1:27:B:HIS:HA	6	1.23
(1,2307)	1:149:B:LEU:HD22	1:27:B:HIS:HA	6	1.23
(1,2307)	1:149:B:LEU:HD23	1:27:B:HIS:HA	6	1.23
(1,1031)	1:142:A:ILE:HD11	1:145:A:LEU:HD11	14	1.23
(1,1031)	1:142:A:ILE:HD11	1:145:A:LEU:HD12	14	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1031)	1:142:A:ILE:HD11	1:145:A:LEU:HD13	14	1.23
(1,1031)	1:142:A:ILE:HD12	1:145:A:LEU:HD11	14	1.23
(1,1031)	1:142:A:ILE:HD12	1:145:A:LEU:HD12	14	1.23
(1,1031)	1:142:A:ILE:HD12	1:145:A:LEU:HD13	14	1.23
(1,1031)	1:142:A:ILE:HD13	1:145:A:LEU:HD11	14	1.23
(1,1031)	1:142:A:ILE:HD13	1:145:A:LEU:HD12	14	1.23
(1,1031)	1:142:A:ILE:HD13	1:145:A:LEU:HD13	14	1.23
(1,163)	1:25:A:ILE:HG21	1:83:A:PHE:HZ	10	1.23
(1,163)	1:25:A:ILE:HG22	1:83:A:PHE:HZ	10	1.23
(1,163)	1:25:A:ILE:HG23	1:83:A:PHE:HZ	10	1.23
(1,1166)	1:155:A:LYS:H	1:155:A:LYS:HE3	8	1.22
(1,969)	1:135:A:THR:HG21	1:18:A:MET:HA	7	1.22
(1,969)	1:135:A:THR:HG22	1:18:A:MET:HA	7	1.22
(1,969)	1:135:A:THR:HG23	1:18:A:MET:HA	7	1.22
(1,890)	1:124:A:ARG:H	1:124:A:ARG:HB2	12	1.22
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD11	4	1.22
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD12	4	1.22
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD13	4	1.22
(1,15)	1:15:A:LEU:H	1:15:A:LEU:HD21	9	1.22
(1,15)	1:15:A:LEU:H	1:15:A:LEU:HD22	9	1.22
(1,15)	1:15:A:LEU:H	1:15:A:LEU:HD23	9	1.22
(1,2430)	1:143:A:LYS:H	1:97:B:GLU:HG3	1	1.21
(1,2430)	1:143:A:LYS:H	1:97:B:GLU:HG3	14	1.21
(1,1730)	1:75:B:LEU:HD21	1:95:B:LYS:HD3	9	1.21
(1,1730)	1:75:B:LEU:HD22	1:95:B:LYS:HD3	9	1.21
(1,1730)	1:75:B:LEU:HD23	1:95:B:LYS:HD3	9	1.21
(1,665)	1:90:A:LYS:H	1:90:A:LYS:HD3	12	1.21
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD11	1	1.21
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD12	1	1.21
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD13	1	1.21
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD11	1	1.21
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD12	1	1.21
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD13	1	1.21
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD11	1	1.21
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD12	1	1.21
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD13	1	1.21
(1,15)	1:15:A:LEU:H	1:15:A:LEU:HD21	1	1.21
(1,15)	1:15:A:LEU:H	1:15:A:LEU:HD22	1	1.21
(1,15)	1:15:A:LEU:H	1:15:A:LEU:HD23	1	1.21
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD11	13	1.21
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD12	13	1.21
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD13	13	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1886)	1:92:B:LEU:HD21	1:83:B:PHE:HZ	10	1.2
(1,1886)	1:92:B:LEU:HD22	1:83:B:PHE:HZ	10	1.2
(1,1886)	1:92:B:LEU:HD23	1:83:B:PHE:HZ	10	1.2
(1,1884)	1:92:B:LEU:HD21	1:83:B:PHE:HZ	10	1.2
(1,1884)	1:92:B:LEU:HD22	1:83:B:PHE:HZ	10	1.2
(1,1884)	1:92:B:LEU:HD23	1:83:B:PHE:HZ	10	1.2
(1,1731)	1:75:B:LEU:HD21	1:95:B:LYS:HE3	2	1.2
(1,1731)	1:75:B:LEU:HD22	1:95:B:LYS:HE3	2	1.2
(1,1731)	1:75:B:LEU:HD23	1:95:B:LYS:HE3	2	1.2
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD11	2	1.2
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD12	2	1.2
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD13	2	1.2
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD11	2	1.2
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD12	2	1.2
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD13	2	1.2
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD11	2	1.2
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD12	2	1.2
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD13	2	1.2
(1,2484)	1:94:A:ALA:H	1:147:B:LYS:HE3	9	1.19
(1,2483)	1:147:A:LYS:HE3	1:94:B:ALA:H	14	1.19
(1,2475)	1:147:A:LYS:HD3	1:93:B:LYS:H	11	1.19
(1,666)	1:90:A:LYS:H	1:90:A:LYS:HD2	5	1.19
(1,666)	1:90:A:LYS:H	1:90:A:LYS:HD2	12	1.19
(1,576)	1:78:A:LEU:HD11	1:79:A:VAL:H	10	1.19
(1,576)	1:78:A:LEU:HD12	1:79:A:VAL:H	10	1.19
(1,576)	1:78:A:LEU:HD13	1:79:A:VAL:H	10	1.19
(1,540)	1:75:A:LEU:HD21	1:95:A:LYS:HD3	10	1.19
(1,540)	1:75:A:LEU:HD22	1:95:A:LYS:HD3	10	1.19
(1,540)	1:75:A:LEU:HD23	1:95:A:LYS:HD3	10	1.19
(1,250)	1:40:A:LEU:HD11	1:145:A:LEU:HB3	9	1.19
(1,250)	1:40:A:LEU:HD12	1:145:A:LEU:HB3	9	1.19
(1,250)	1:40:A:LEU:HD13	1:145:A:LEU:HB3	9	1.19
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG21	7	1.19
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG22	7	1.19
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG23	7	1.19
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG21	7	1.19
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG22	7	1.19
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG23	7	1.19
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG21	7	1.19
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG22	7	1.19
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG23	7	1.19
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG21	9	1.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG22	9	1.19
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG23	9	1.19
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG21	9	1.19
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG22	9	1.19
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG23	9	1.19
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG21	9	1.19
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG22	9	1.19
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG23	9	1.19
(1,2395)	1:90:A:LYS:HD2	1:150:B:SER:H	2	1.18
(1,1730)	1:75:B:LEU:HD21	1:95:B:LYS:HD3	13	1.18
(1,1730)	1:75:B:LEU:HD22	1:95:B:LYS:HD3	13	1.18
(1,1730)	1:75:B:LEU:HD23	1:95:B:LYS:HD3	13	1.18
(1,1353)	1:25:B:ILE:HG21	1:83:B:PHE:HZ	4	1.18
(1,1353)	1:25:B:ILE:HG22	1:83:B:PHE:HZ	4	1.18
(1,1353)	1:25:B:ILE:HG23	1:83:B:PHE:HZ	4	1.18
(1,1353)	1:25:B:ILE:HG21	1:83:B:PHE:HZ	6	1.18
(1,1353)	1:25:B:ILE:HG22	1:83:B:PHE:HZ	6	1.18
(1,1353)	1:25:B:ILE:HG23	1:83:B:PHE:HZ	6	1.18
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD11	1	1.18
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD12	1	1.18
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD13	1	1.18
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD11	1	1.18
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD12	1	1.18
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD13	1	1.18
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD11	1	1.18
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD12	1	1.18
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD13	1	1.18
(1,622)	1:82:A:SER:H	1:83:A:PHE:HB3	13	1.18
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD11	4	1.18
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD12	4	1.18
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD13	4	1.18
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD11	4	1.18
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD12	4	1.18
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD13	4	1.18
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD11	4	1.18
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD12	4	1.18
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD13	4	1.18
(1,530)	1:75:A:LEU:HD11	1:95:A:LYS:HD3	7	1.18
(1,530)	1:75:A:LEU:HD12	1:95:A:LYS:HD3	7	1.18
(1,530)	1:75:A:LEU:HD13	1:95:A:LYS:HD3	7	1.18
(1,323)	1:47:A:LEU:HD21	1:138:A:ASN:HB2	12	1.18
(1,323)	1:47:A:LEU:HD22	1:138:A:ASN:HB2	12	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,323)	1:47:A:LEU:HD23	1:138:A:ASN:HB2	12	1.18
(1,2442)	1:140:A:GLU:H	1:100:B:LYS:HD3	8	1.17
(1,1877)	1:92:B:LEU:H	1:94:B:ALA:HB2	4	1.17
(1,687)	1:92:A:LEU:H	1:94:A:ALA:HB2	7	1.17
(1,2467)	1:147:A:LYS:HB3	1:93:B:LYS:H	4	1.16
(1,2454)	1:96:A:GLU:H	1:143:B:LYS:HD2	10	1.16
(1,2446)	1:139:A:GLU:H	1:100:B:LYS:HE3	9	1.16
(1,985)	1:137:A:GLU:H	1:137:A:GLU:HG2	8	1.16
(1,946)	1:134:A:LYS:H	1:134:A:LYS:HG2	12	1.16
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD21	12	1.16
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD22	12	1.16
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD23	12	1.16
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD21	12	1.16
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD22	12	1.16
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD23	12	1.16
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD21	12	1.16
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD22	12	1.16
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD23	12	1.16
(1,540)	1:75:A:LEU:HD21	1:95:A:LYS:HD3	5	1.16
(1,540)	1:75:A:LEU:HD22	1:95:A:LYS:HD3	5	1.16
(1,540)	1:75:A:LEU:HD23	1:95:A:LYS:HD3	5	1.16
(1,416)	1:59:A:LYS:HB2	1:60:A:ALA:H	4	1.16
(1,364)	1:52:A:VAL:H	1:52:A:VAL:HG11	4	1.16
(1,364)	1:52:A:VAL:H	1:52:A:VAL:HG12	4	1.16
(1,364)	1:52:A:VAL:H	1:52:A:VAL:HG13	4	1.16
(1,364)	1:52:A:VAL:H	1:52:A:VAL:HG11	11	1.16
(1,364)	1:52:A:VAL:H	1:52:A:VAL:HG12	11	1.16
(1,364)	1:52:A:VAL:H	1:52:A:VAL:HG13	11	1.16
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD11	12	1.16
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD12	12	1.16
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD13	12	1.16
(1,2482)	1:93:A:LYS:H	1:147:B:LYS:HE2	4	1.15
(1,2474)	1:93:A:LYS:H	1:147:B:LYS:HG2	6	1.15
(1,2448)	1:139:A:GLU:H	1:100:B:LYS:HE2	15	1.15
(1,2439)	1:100:A:LYS:HE2	1:140:B:GLU:H	8	1.15
(1,1564)	1:52:B:VAL:HG11	1:69:B:GLY:HA2	12	1.15
(1,1564)	1:52:B:VAL:HG12	1:69:B:GLY:HA2	12	1.15
(1,1564)	1:52:B:VAL:HG13	1:69:B:GLY:HA2	12	1.15
(1,617)	1:82:A:SER:H	1:82:A:SER:HG	11	1.15
(1,576)	1:78:A:LEU:HD11	1:79:A:VAL:H	2	1.15
(1,576)	1:78:A:LEU:HD12	1:79:A:VAL:H	2	1.15
(1,576)	1:78:A:LEU:HD13	1:79:A:VAL:H	2	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,478)	1:71:A:GLN:H	1:71:A:GLN:HG3	14	1.15
(1,478)	1:71:A:GLN:H	1:71:A:GLN:HG3	15	1.15
(1,416)	1:59:A:LYS:HB2	1:60:A:ALA:H	6	1.15
(1,250)	1:40:A:LEU:HD11	1:145:A:LEU:HB3	7	1.15
(1,250)	1:40:A:LEU:HD12	1:145:A:LEU:HB3	7	1.15
(1,250)	1:40:A:LEU:HD13	1:145:A:LEU:HB3	7	1.15
(1,2482)	1:93:A:LYS:H	1:147:B:LYS:HE2	9	1.14
(1,1212)	1:15:B:LEU:HD11	1:99:B:LEU:HD21	15	1.14
(1,1212)	1:15:B:LEU:HD11	1:99:B:LEU:HD22	15	1.14
(1,1212)	1:15:B:LEU:HD11	1:99:B:LEU:HD23	15	1.14
(1,1212)	1:15:B:LEU:HD12	1:99:B:LEU:HD21	15	1.14
(1,1212)	1:15:B:LEU:HD12	1:99:B:LEU:HD22	15	1.14
(1,1212)	1:15:B:LEU:HD12	1:99:B:LEU:HD23	15	1.14
(1,1212)	1:15:B:LEU:HD13	1:99:B:LEU:HD21	15	1.14
(1,1212)	1:15:B:LEU:HD13	1:99:B:LEU:HD22	15	1.14
(1,1212)	1:15:B:LEU:HD13	1:99:B:LEU:HD23	15	1.14
(1,1167)	1:155:A:LYS:H	1:155:A:LYS:HE2	5	1.14
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD11	3	1.14
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD12	3	1.14
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD13	3	1.14
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD11	3	1.14
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD12	3	1.14
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD13	3	1.14
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD11	3	1.14
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD12	3	1.14
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD13	3	1.14
(1,532)	1:75:A:LEU:HD11	1:95:A:LYS:HE3	5	1.14
(1,532)	1:75:A:LEU:HD12	1:95:A:LYS:HE3	5	1.14
(1,532)	1:75:A:LEU:HD13	1:95:A:LYS:HE3	5	1.14
(1,335)	1:48:A:ALA:HB1	1:18:A:MET:HG2	1	1.14
(1,335)	1:48:A:ALA:HB2	1:18:A:MET:HG2	1	1.14
(1,335)	1:48:A:ALA:HB3	1:18:A:MET:HG2	1	1.14
(1,322)	1:47:A:LEU:HD21	1:138:A:ASN:HB3	10	1.14
(1,322)	1:47:A:LEU:HD22	1:138:A:ASN:HB3	10	1.14
(1,322)	1:47:A:LEU:HD23	1:138:A:ASN:HB3	10	1.14
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD11	14	1.14
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD12	14	1.14
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD13	14	1.14
(1,2470)	1:93:A:LYS:H	1:147:B:LYS:HB2	6	1.13
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD11	5	1.13
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD12	5	1.13
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD13	5	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,687)	1:92:A:LEU:H	1:94:A:ALA:HB2	9	1.13
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD21	8	1.13
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD22	8	1.13
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD23	8	1.13
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD21	8	1.13
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD22	8	1.13
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD23	8	1.13
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD21	8	1.13
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD22	8	1.13
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD23	8	1.13
(1,542)	1:75:A:LEU:HD21	1:95:A:LYS:HE2	5	1.13
(1,542)	1:75:A:LEU:HD22	1:95:A:LYS:HE2	5	1.13
(1,542)	1:75:A:LEU:HD23	1:95:A:LYS:HE2	5	1.13
(1,478)	1:71:A:GLN:H	1:71:A:GLN:HG3	1	1.13
(1,478)	1:71:A:GLN:H	1:71:A:GLN:HG3	7	1.13
(1,150)	1:25:A:ILE:H	1:25:A:ILE:HG21	4	1.13
(1,150)	1:25:A:ILE:H	1:25:A:ILE:HG22	4	1.13
(1,150)	1:25:A:ILE:H	1:25:A:ILE:HG23	4	1.13
(1,64)	1:18:A:MET:HE1	1:52:A:VAL:HB	12	1.13
(1,64)	1:18:A:MET:HE2	1:52:A:VAL:HB	12	1.13
(1,64)	1:18:A:MET:HE3	1:52:A:VAL:HB	12	1.13
(1,2472)	1:93:A:LYS:H	1:147:B:LYS:HG3	4	1.12
(1,1732)	1:75:B:LEU:HD21	1:95:B:LYS:HE2	11	1.12
(1,1732)	1:75:B:LEU:HD22	1:95:B:LYS:HE2	11	1.12
(1,1732)	1:75:B:LEU:HD23	1:95:B:LYS:HE2	11	1.12
(1,1731)	1:75:B:LEU:HD21	1:95:B:LYS:HE3	5	1.12
(1,1731)	1:75:B:LEU:HD22	1:95:B:LYS:HE3	5	1.12
(1,1731)	1:75:B:LEU:HD23	1:95:B:LYS:HE3	5	1.12
(1,666)	1:90:A:LYS:H	1:90:A:LYS:HD2	9	1.12
(1,322)	1:47:A:LEU:HD21	1:138:A:ASN:HB3	1	1.12
(1,322)	1:47:A:LEU:HD22	1:138:A:ASN:HB3	1	1.12
(1,322)	1:47:A:LEU:HD23	1:138:A:ASN:HB3	1	1.12
(1,2305)	1:149:B:LEU:HD11	1:28:B:CYS:HA	2	1.11
(1,2305)	1:149:B:LEU:HD12	1:28:B:CYS:HA	2	1.11
(1,2305)	1:149:B:LEU:HD13	1:28:B:CYS:HA	2	1.11
(1,1164)	1:155:A:LYS:H	1:155:A:LYS:HD3	15	1.11
(1,1119)	1:149:A:LEU:HD21	1:28:A:CYS:HA	13	1.11
(1,1119)	1:149:A:LEU:HD22	1:28:A:CYS:HA	13	1.11
(1,1119)	1:149:A:LEU:HD23	1:28:A:CYS:HA	13	1.11
(1,730)	1:96:A:GLU:H	1:96:A:GLU:HG2	4	1.11
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD11	5	1.11
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD12	5	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD13	5	1.11
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD11	5	1.11
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD12	5	1.11
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD13	5	1.11
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD11	5	1.11
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD12	5	1.11
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD13	5	1.11
(1,163)	1:25:A:ILE:HG21	1:83:A:PHE:HZ	14	1.11
(1,163)	1:25:A:ILE:HG22	1:83:A:PHE:HZ	14	1.11
(1,163)	1:25:A:ILE:HG23	1:83:A:PHE:HZ	14	1.11
(1,2494)	1:90:A:LYS:H	1:150:B:SER:HB2	6	1.1
(1,2430)	1:143:A:LYS:H	1:97:B:GLU:HG3	4	1.1
(1,1883)	1:92:B:LEU:HD21	1:83:B:PHE:HA	6	1.1
(1,1883)	1:92:B:LEU:HD22	1:83:B:PHE:HA	6	1.1
(1,1883)	1:92:B:LEU:HD23	1:83:B:PHE:HA	6	1.1
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD11	2	1.1
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD12	2	1.1
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD13	2	1.1
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD11	2	1.1
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD12	2	1.1
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD13	2	1.1
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD11	2	1.1
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD12	2	1.1
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD13	2	1.1
(1,1106)	1:149:A:LEU:H	1:149:A:LEU:HD21	15	1.1
(1,1106)	1:149:A:LEU:H	1:149:A:LEU:HD22	15	1.1
(1,1106)	1:149:A:LEU:H	1:149:A:LEU:HD23	15	1.1
(1,966)	1:135:A:THR:HG21	1:17:A:ASP:HB3	3	1.1
(1,966)	1:135:A:THR:HG22	1:17:A:ASP:HB3	3	1.1
(1,966)	1:135:A:THR:HG23	1:17:A:ASP:HB3	3	1.1
(1,937)	1:132:A:ARG:H	1:133:A:MET:H	1	1.1
(1,576)	1:78:A:LEU:HD11	1:79:A:VAL:H	1	1.1
(1,576)	1:78:A:LEU:HD12	1:79:A:VAL:H	1	1.1
(1,576)	1:78:A:LEU:HD13	1:79:A:VAL:H	1	1.1
(1,479)	1:71:A:GLN:H	1:71:A:GLN:HG2	5	1.1
(1,463)	1:68:A:VAL:HG11	1:102:A:LYS:HE3	13	1.1
(1,463)	1:68:A:VAL:HG12	1:102:A:LYS:HE3	13	1.1
(1,463)	1:68:A:VAL:HG13	1:102:A:LYS:HE3	13	1.1
(1,165)	1:25:A:ILE:HG21	1:83:A:PHE:HE1	12	1.1
(1,165)	1:25:A:ILE:HG22	1:83:A:PHE:HE1	12	1.1
(1,165)	1:25:A:ILE:HG23	1:83:A:PHE:HE1	12	1.1
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD11	15	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD12	15	1.1
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD13	15	1.1
(1,2486)	1:94:A:ALA:H	1:147:B:LYS:HE2	12	1.09
(1,2403)	1:93:A:LYS:HB2	1:147:B:LYS:H	8	1.09
(1,2127)	1:132:B:ARG:H	1:133:B:MET:H	2	1.09
(1,2127)	1:132:B:ARG:H	1:133:B:MET:H	14	1.09
(1,1354)	1:25:B:ILE:HG21	1:83:B:PHE:HE2	8	1.09
(1,1354)	1:25:B:ILE:HG22	1:83:B:PHE:HE2	8	1.09
(1,1354)	1:25:B:ILE:HG23	1:83:B:PHE:HE2	8	1.09
(1,739)	1:97:A:GLU:H	1:97:A:GLU:HG2	11	1.09
(1,665)	1:90:A:LYS:H	1:90:A:LYS:HD3	10	1.09
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD11	3	1.09
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD12	3	1.09
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD13	3	1.09
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD11	3	1.09
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD12	3	1.09
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD13	3	1.09
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD11	3	1.09
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD12	3	1.09
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD13	3	1.09
(1,538)	1:75:A:LEU:HD21	1:95:A:LYS:HG3	8	1.09
(1,538)	1:75:A:LEU:HD22	1:95:A:LYS:HG3	8	1.09
(1,538)	1:75:A:LEU:HD23	1:95:A:LYS:HG3	8	1.09
(1,478)	1:71:A:GLN:H	1:71:A:GLN:HG3	4	1.09
(1,478)	1:71:A:GLN:H	1:71:A:GLN:HG3	11	1.09
(1,364)	1:52:A:VAL:H	1:52:A:VAL:HG11	8	1.09
(1,364)	1:52:A:VAL:H	1:52:A:VAL:HG12	8	1.09
(1,364)	1:52:A:VAL:H	1:52:A:VAL:HG13	8	1.09
(1,259)	1:41:A:THR:H	1:41:A:THR:HG21	4	1.09
(1,259)	1:41:A:THR:H	1:41:A:THR:HG22	4	1.09
(1,259)	1:41:A:THR:H	1:41:A:THR:HG23	4	1.09
(1,2460)	1:97:A:GLU:H	1:143:B:LYS:HD3	4	1.08
(1,2403)	1:93:A:LYS:HB2	1:147:B:LYS:H	10	1.08
(1,1650)	1:68:B:VAL:HG11	1:106:B:ARG:HD2	10	1.08
(1,1650)	1:68:B:VAL:HG12	1:106:B:ARG:HD2	10	1.08
(1,1650)	1:68:B:VAL:HG13	1:106:B:ARG:HD2	10	1.08
(1,985)	1:137:A:GLU:H	1:137:A:GLU:HG2	6	1.08
(1,890)	1:124:A:ARG:H	1:124:A:ARG:HB2	1	1.08
(1,145)	1:24:A:ILE:HG21	1:146:A:GLU:HG3	6	1.08
(1,145)	1:24:A:ILE:HG22	1:146:A:GLU:HG3	6	1.08
(1,145)	1:24:A:ILE:HG23	1:146:A:GLU:HG3	6	1.08
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB1	4	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB2	4	1.08
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB3	4	1.08
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB1	4	1.08
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB2	4	1.08
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB3	4	1.08
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB1	4	1.08
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB2	4	1.08
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB3	4	1.08
(1,2431)	1:97:A:GLU:HG2	1:143:B:LYS:H	7	1.07
(1,2127)	1:132:B:ARG:H	1:133:B:MET:H	6	1.07
(1,1881)	1:92:B:LEU:HD11	1:83:B:PHE:HE2	11	1.07
(1,1881)	1:92:B:LEU:HD12	1:83:B:PHE:HE2	11	1.07
(1,1881)	1:92:B:LEU:HD13	1:83:B:PHE:HE2	11	1.07
(1,617)	1:82:A:SER:H	1:82:A:SER:HG	12	1.07
(1,478)	1:71:A:GLN:H	1:71:A:GLN:HG3	12	1.07
(1,163)	1:25:A:ILE:HG21	1:83:A:PHE:HZ	13	1.07
(1,163)	1:25:A:ILE:HG22	1:83:A:PHE:HZ	13	1.07
(1,163)	1:25:A:ILE:HG23	1:83:A:PHE:HZ	13	1.07
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG11	4	1.07
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG12	4	1.07
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG13	4	1.07
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG11	4	1.07
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG12	4	1.07
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG13	4	1.07
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG11	4	1.07
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG12	4	1.07
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG13	4	1.07
(1,2480)	1:93:A:LYS:H	1:147:B:LYS:HE3	9	1.06
(1,2452)	1:137:A:GLU:H	1:104:B:LYS:HE2	8	1.06
(1,2435)	1:97:A:GLU:HG2	1:144:B:ASN:H	10	1.06
(1,1097)	1:148:A:GLU:H	1:148:A:GLU:HG2	10	1.06
(1,1041)	1:143:A:LYS:H	1:143:A:LYS:HG3	12	1.06
(1,687)	1:92:A:LEU:H	1:94:A:ALA:HB2	8	1.06
(1,666)	1:90:A:LYS:H	1:90:A:LYS:HD2	13	1.06
(1,666)	1:90:A:LYS:H	1:90:A:LYS:HD2	14	1.06
(1,617)	1:82:A:SER:H	1:82:A:SER:HG	1	1.06
(1,547)	1:75:A:LEU:HD21	1:99:A:LEU:HD21	11	1.06
(1,547)	1:75:A:LEU:HD21	1:99:A:LEU:HD22	11	1.06
(1,547)	1:75:A:LEU:HD21	1:99:A:LEU:HD23	11	1.06
(1,547)	1:75:A:LEU:HD22	1:99:A:LEU:HD21	11	1.06
(1,547)	1:75:A:LEU:HD22	1:99:A:LEU:HD22	11	1.06
(1,547)	1:75:A:LEU:HD22	1:99:A:LEU:HD23	11	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,547)	1:75:A:LEU:HD23	1:99:A:LEU:HD21	11	1.06
(1,547)	1:75:A:LEU:HD23	1:99:A:LEU:HD22	11	1.06
(1,547)	1:75:A:LEU:HD23	1:99:A:LEU:HD23	11	1.06
(1,540)	1:75:A:LEU:HD21	1:95:A:LYS:HD3	4	1.06
(1,540)	1:75:A:LEU:HD22	1:95:A:LYS:HD3	4	1.06
(1,540)	1:75:A:LEU:HD23	1:95:A:LYS:HD3	4	1.06
(1,164)	1:25:A:ILE:HG21	1:83:A:PHE:HE2	4	1.06
(1,164)	1:25:A:ILE:HG22	1:83:A:PHE:HE2	4	1.06
(1,164)	1:25:A:ILE:HG23	1:83:A:PHE:HE2	4	1.06
(1,163)	1:25:A:ILE:HG21	1:83:A:PHE:HZ	1	1.06
(1,163)	1:25:A:ILE:HG22	1:83:A:PHE:HZ	1	1.06
(1,163)	1:25:A:ILE:HG23	1:83:A:PHE:HZ	1	1.06
(1,116)	1:23:A:ARG:H	1:23:A:ARG:HG2	2	1.06
(1,2398)	1:150:A:SER:H	1:90:B:LYS:HG3	7	1.05
(1,697)	1:92:A:LEU:HD21	1:26:A:TYR:HE1	3	1.05
(1,697)	1:92:A:LEU:HD22	1:26:A:TYR:HE1	3	1.05
(1,697)	1:92:A:LEU:HD23	1:26:A:TYR:HE1	3	1.05
(1,539)	1:75:A:LEU:HD21	1:95:A:LYS:HG2	8	1.05
(1,539)	1:75:A:LEU:HD22	1:95:A:LYS:HG2	8	1.05
(1,539)	1:75:A:LEU:HD23	1:95:A:LYS:HG2	8	1.05
(1,335)	1:48:A:ALA:HB1	1:18:A:MET:HG2	8	1.05
(1,335)	1:48:A:ALA:HB2	1:18:A:MET:HG2	8	1.05
(1,335)	1:48:A:ALA:HB3	1:18:A:MET:HG2	8	1.05
(1,319)	1:47:A:LEU:HD11	1:138:A:ASN:HB3	12	1.05
(1,319)	1:47:A:LEU:HD12	1:138:A:ASN:HB3	12	1.05
(1,319)	1:47:A:LEU:HD13	1:138:A:ASN:HB3	12	1.05
(1,2468)	1:93:A:LYS:H	1:147:B:LYS:HB3	2	1.04
(1,1353)	1:25:B:ILE:HG21	1:83:B:PHE:HZ	9	1.04
(1,1353)	1:25:B:ILE:HG22	1:83:B:PHE:HZ	9	1.04
(1,1353)	1:25:B:ILE:HG23	1:83:B:PHE:HZ	9	1.04
(1,937)	1:132:A:ARG:H	1:133:A:MET:H	3	1.04
(1,478)	1:71:A:GLN:H	1:71:A:GLN:HG3	2	1.04
(1,416)	1:59:A:LYS:HB2	1:60:A:ALA:H	5	1.04
(1,334)	1:48:A:ALA:HB1	1:18:A:MET:HG3	5	1.04
(1,334)	1:48:A:ALA:HB2	1:18:A:MET:HG3	5	1.04
(1,334)	1:48:A:ALA:HB3	1:18:A:MET:HG3	5	1.04
(1,334)	1:48:A:ALA:HB1	1:18:A:MET:HG3	9	1.04
(1,334)	1:48:A:ALA:HB2	1:18:A:MET:HG3	9	1.04
(1,334)	1:48:A:ALA:HB3	1:18:A:MET:HG3	9	1.04
(1,322)	1:47:A:LEU:HD21	1:138:A:ASN:HB3	9	1.04
(1,322)	1:47:A:LEU:HD22	1:138:A:ASN:HB3	9	1.04
(1,322)	1:47:A:LEU:HD23	1:138:A:ASN:HB3	9	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,268)	1:42:A:THR:H	1:42:A:THR:HG21	5	1.04
(1,268)	1:42:A:THR:H	1:42:A:THR:HG22	5	1.04
(1,268)	1:42:A:THR:H	1:42:A:THR:HG23	5	1.04
(1,116)	1:23:A:ARG:H	1:23:A:ARG:HG2	10	1.04
(1,2484)	1:94:A:ALA:H	1:147:B:LYS:HE3	8	1.03
(1,2453)	1:143:A:LYS:HD2	1:96:B:GLU:H	3	1.03
(1,2431)	1:97:A:GLU:HG2	1:143:B:LYS:H	4	1.03
(1,2400)	1:150:A:SER:H	1:90:B:LYS:HA	7	1.03
(1,1070)	1:145:A:LEU:HD21	1:40:A:LEU:HA	1	1.03
(1,1070)	1:145:A:LEU:HD22	1:40:A:LEU:HA	1	1.03
(1,1070)	1:145:A:LEU:HD23	1:40:A:LEU:HA	1	1.03
(1,890)	1:124:A:ARG:H	1:124:A:ARG:HB2	9	1.03
(1,533)	1:75:A:LEU:HD11	1:95:A:LYS:HE2	12	1.03
(1,533)	1:75:A:LEU:HD12	1:95:A:LYS:HE2	12	1.03
(1,533)	1:75:A:LEU:HD13	1:95:A:LYS:HE2	12	1.03
(1,335)	1:48:A:ALA:HB1	1:18:A:MET:HG2	9	1.03
(1,335)	1:48:A:ALA:HB2	1:18:A:MET:HG2	9	1.03
(1,335)	1:48:A:ALA:HB3	1:18:A:MET:HG2	9	1.03
(1,247)	1:40:A:LEU:HD21	1:28:A:CYS:HB2	3	1.03
(1,247)	1:40:A:LEU:HD22	1:28:A:CYS:HB2	3	1.03
(1,247)	1:40:A:LEU:HD23	1:28:A:CYS:HB2	3	1.03
(1,195)	1:30:A:LYS:HB2	1:31:A:GLN:H	14	1.03
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG11	8	1.03
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG12	8	1.03
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG13	8	1.03
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG11	8	1.03
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG12	8	1.03
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG13	8	1.03
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG11	8	1.03
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG12	8	1.03
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG13	8	1.03
(1,146)	1:24:A:ILE:HG21	1:146:A:GLU:HG2	6	1.03
(1,146)	1:24:A:ILE:HG22	1:146:A:GLU:HG2	6	1.03
(1,146)	1:24:A:ILE:HG23	1:146:A:GLU:HG2	6	1.03
(1,15)	1:15:A:LEU:H	1:15:A:LEU:HD21	8	1.03
(1,15)	1:15:A:LEU:H	1:15:A:LEU:HD22	8	1.03
(1,15)	1:15:A:LEU:H	1:15:A:LEU:HD23	8	1.03
(1,2485)	1:147:A:LYS:HE2	1:94:B:ALA:H	7	1.02
(1,2447)	1:100:A:LYS:HE2	1:139:B:GLU:H	1	1.02
(1,2433)	1:97:A:GLU:HG3	1:144:B:ASN:H	11	1.02
(1,1563)	1:52:B:VAL:HG11	1:69:B:GLY:HA3	12	1.02
(1,1563)	1:52:B:VAL:HG12	1:69:B:GLY:HA3	12	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1563)	1:52:B:VAL:HG13	1:69:B:GLY:HA3	12	1.02
(1,1250)	1:18:B:MET:HE1	1:51:B:ASN:HB3	7	1.02
(1,1250)	1:18:B:MET:HE2	1:51:B:ASN:HB3	7	1.02
(1,1250)	1:18:B:MET:HE3	1:51:B:ASN:HB3	7	1.02
(1,1059)	1:145:A:LEU:H	1:145:A:LEU:HG	13	1.02
(1,1003)	1:139:A:GLU:H	1:142:A:ILE:H	10	1.02
(1,937)	1:132:A:ARG:H	1:133:A:MET:H	13	1.02
(1,729)	1:96:A:GLU:H	1:96:A:GLU:HG3	4	1.02
(1,654)	1:88:A:SER:H	1:88:A:SER:HG	15	1.02
(1,165)	1:25:A:ILE:HG21	1:83:A:PHE:HE1	14	1.02
(1,165)	1:25:A:ILE:HG22	1:83:A:PHE:HE1	14	1.02
(1,165)	1:25:A:ILE:HG23	1:83:A:PHE:HE1	14	1.02
(1,163)	1:25:A:ILE:HG21	1:83:A:PHE:HZ	2	1.02
(1,163)	1:25:A:ILE:HG22	1:83:A:PHE:HZ	2	1.02
(1,163)	1:25:A:ILE:HG23	1:83:A:PHE:HZ	2	1.02
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB1	1	1.02
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB2	1	1.02
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB3	1	1.02
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB1	1	1.02
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB2	1	1.02
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB3	1	1.02
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB1	1	1.02
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB2	1	1.02
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB3	1	1.02
(1,2480)	1:93:A:LYS:H	1:147:B:LYS:HE3	4	1.01
(1,2127)	1:132:B:ARG:H	1:133:B:MET:H	15	1.01
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD11	6	1.01
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD12	6	1.01
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD13	6	1.01
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD11	6	1.01
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD12	6	1.01
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD13	6	1.01
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD11	6	1.01
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD12	6	1.01
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD13	6	1.01
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG12	6	1.01
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG13	6	1.01
(1,890)	1:124:A:ARG:H	1:124:A:ARG:HB2	14	1.01
(1,666)	1:90:A:LYS:H	1:90:A:LYS:HD2	11	1.01
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD11	2	1.01
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD12	2	1.01
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD13	2	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD11	2	1.01
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD12	2	1.01
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD13	2	1.01
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD11	2	1.01
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD12	2	1.01
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD13	2	1.01
(1,478)	1:71:A:GLN:H	1:71:A:GLN:HG3	3	1.01
(1,478)	1:71:A:GLN:H	1:71:A:GLN:HG3	6	1.01
(1,334)	1:48:A:ALA:HB1	1:18:A:MET:HG3	10	1.01
(1,334)	1:48:A:ALA:HB2	1:18:A:MET:HG3	10	1.01
(1,334)	1:48:A:ALA:HB3	1:18:A:MET:HG3	10	1.01
(1,268)	1:42:A:THR:H	1:42:A:THR:HG21	7	1.01
(1,268)	1:42:A:THR:H	1:42:A:THR:HG22	7	1.01
(1,268)	1:42:A:THR:H	1:42:A:THR:HG23	7	1.01
(1,268)	1:42:A:THR:H	1:42:A:THR:HG21	15	1.01
(1,268)	1:42:A:THR:H	1:42:A:THR:HG22	15	1.01
(1,268)	1:42:A:THR:H	1:42:A:THR:HG23	15	1.01
(1,129)	1:24:A:ILE:HA	1:26:A:TYR:H	6	1.01
(1,61)	1:18:A:MET:HE1	1:51:A:ASN:HB2	5	1.01
(1,61)	1:18:A:MET:HE2	1:51:A:ASN:HB2	5	1.01
(1,61)	1:18:A:MET:HE3	1:51:A:ASN:HB2	5	1.01
(1,2459)	1:143:A:LYS:HD3	1:97:B:GLU:H	11	1.0
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD11	12	1.0
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD12	12	1.0
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD13	12	1.0
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD11	12	1.0
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD12	12	1.0
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD13	12	1.0
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD11	12	1.0
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD12	12	1.0
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD13	12	1.0
(1,1653)	1:68:B:VAL:HG11	1:102:B:LYS:HE3	11	1.0
(1,1653)	1:68:B:VAL:HG12	1:102:B:LYS:HE3	11	1.0
(1,1653)	1:68:B:VAL:HG13	1:102:B:LYS:HE3	11	1.0
(1,1136)	1:152:A:LEU:H	1:152:A:LEU:HG	4	1.0
(1,1119)	1:149:A:LEU:HD21	1:28:A:CYS:HA	9	1.0
(1,1119)	1:149:A:LEU:HD22	1:28:A:CYS:HA	9	1.0
(1,1119)	1:149:A:LEU:HD23	1:28:A:CYS:HA	9	1.0
(1,1059)	1:145:A:LEU:H	1:145:A:LEU:HG	1	1.0
(1,729)	1:96:A:GLU:H	1:96:A:GLU:HG3	10	1.0
(1,580)	1:78:A:LEU:HD11	1:95:A:LYS:HB2	3	1.0
(1,580)	1:78:A:LEU:HD12	1:95:A:LYS:HB2	3	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,580)	1:78:A:LEU:HD13	1:95:A:LYS:HB2	3	1.0
(1,417)	1:59:A:LYS:HG2	1:60:A:ALA:H	8	1.0
(1,255)	1:40:A:LEU:HD21	1:145:A:LEU:HB2	6	1.0
(1,255)	1:40:A:LEU:HD22	1:145:A:LEU:HB2	6	1.0
(1,255)	1:40:A:LEU:HD23	1:145:A:LEU:HB2	6	1.0
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD11	5	1.0
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD12	5	1.0
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD13	5	1.0
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD11	5	1.0
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD12	5	1.0
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD13	5	1.0
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD11	5	1.0
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD12	5	1.0
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD13	5	1.0
(1,2484)	1:94:A:ALA:H	1:147:B:LYS:HE3	4	0.99
(1,2479)	1:147:A:LYS:HE3	1:93:B:LYS:H	7	0.99
(1,2127)	1:132:B:ARG:H	1:133:B:MET:H	13	0.99
(1,1083)	1:147:A:LYS:H	1:147:A:LYS:HG3	10	0.99
(1,937)	1:132:A:ARG:H	1:133:A:MET:H	12	0.99
(1,195)	1:30:A:LYS:HB2	1:31:A:GLN:H	11	0.99
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB1	8	0.99
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB2	8	0.99
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB3	8	0.99
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB1	8	0.99
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB2	8	0.99
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB3	8	0.99
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB1	8	0.99
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB2	8	0.99
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB3	8	0.99
(1,2405)	1:93:A:LYS:HG3	1:147:B:LYS:H	4	0.98
(1,2157)	1:135:B:THR:HG21	1:17:B:ASP:HB2	14	0.98
(1,2157)	1:135:B:THR:HG22	1:17:B:ASP:HB2	14	0.98
(1,2157)	1:135:B:THR:HG23	1:17:B:ASP:HB2	14	0.98
(1,946)	1:134:A:LYS:H	1:134:A:LYS:HG2	1	0.98
(1,835)	1:113:A:GLU:H	1:114:A:LEU:H	7	0.98
(1,540)	1:75:A:LEU:HD21	1:95:A:LYS:HD3	12	0.98
(1,540)	1:75:A:LEU:HD22	1:95:A:LYS:HD3	12	0.98
(1,540)	1:75:A:LEU:HD23	1:95:A:LYS:HD3	12	0.98
(1,364)	1:52:A:VAL:H	1:52:A:VAL:HG11	9	0.98
(1,364)	1:52:A:VAL:H	1:52:A:VAL:HG12	9	0.98
(1,364)	1:52:A:VAL:H	1:52:A:VAL:HG13	9	0.98
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD11	1	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD12	1	0.98
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD13	1	0.98
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD11	1	0.98
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD12	1	0.98
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD13	1	0.98
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD11	1	0.98
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD12	1	0.98
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD13	1	0.98
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD11	8	0.98
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD12	8	0.98
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD13	8	0.98
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB1	11	0.98
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB2	11	0.98
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB3	11	0.98
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB1	11	0.98
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB2	11	0.98
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB3	11	0.98
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB1	11	0.98
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB2	11	0.98
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB3	11	0.98
(1,937)	1:132:A:ARG:H	1:133:A:MET:H	6	0.97
(1,622)	1:82:A:SER:H	1:83:A:PHE:HB3	9	0.97
(1,622)	1:82:A:SER:H	1:83:A:PHE:HB3	10	0.97
(1,617)	1:82:A:SER:H	1:82:A:SER:HG	10	0.97
(1,576)	1:78:A:LEU:HD11	1:79:A:VAL:H	9	0.97
(1,576)	1:78:A:LEU:HD12	1:79:A:VAL:H	9	0.97
(1,576)	1:78:A:LEU:HD13	1:79:A:VAL:H	9	0.97
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD11	10	0.97
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD12	10	0.97
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD13	10	0.97
(1,195)	1:30:A:LYS:HB2	1:31:A:GLN:H	1	0.97
(1,134)	1:24:A:ILE:HD11	1:40:A:LEU:HG	10	0.97
(1,134)	1:24:A:ILE:HD12	1:40:A:LEU:HG	10	0.97
(1,134)	1:24:A:ILE:HD13	1:40:A:LEU:HG	10	0.97
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB1	8	0.97
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB2	8	0.97
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB3	8	0.97
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB1	8	0.97
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB2	8	0.97
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB3	8	0.97
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB1	8	0.97
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB2	8	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB3	8	0.97
(1,2482)	1:93:A:LYS:H	1:147:B:LYS:HE2	14	0.96
(1,2454)	1:96:A:GLU:H	1:143:B:LYS:HD2	5	0.96
(1,2433)	1:97:A:GLU:HG3	1:144:B:ASN:H	1	0.96
(1,2430)	1:143:A:LYS:H	1:97:B:GLU:HG3	9	0.96
(1,1729)	1:75:B:LEU:HD21	1:95:B:LYS:HG2	3	0.96
(1,1729)	1:75:B:LEU:HD22	1:95:B:LYS:HG2	3	0.96
(1,1729)	1:75:B:LEU:HD23	1:95:B:LYS:HG2	3	0.96
(1,1136)	1:152:A:LEU:H	1:152:A:LEU:HG	6	0.96
(1,1136)	1:152:A:LEU:H	1:152:A:LEU:HG	9	0.96
(1,1097)	1:148:A:GLU:H	1:148:A:GLU:HG2	4	0.96
(1,1097)	1:148:A:GLU:H	1:148:A:GLU:HG2	8	0.96
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD11	12	0.96
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD12	12	0.96
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD13	12	0.96
(1,729)	1:96:A:GLU:H	1:96:A:GLU:HG3	14	0.96
(1,687)	1:92:A:LEU:H	1:94:A:ALA:HB2	6	0.96
(1,676)	1:91:A:GLU:H	1:91:A:GLU:HG2	8	0.96
(1,576)	1:78:A:LEU:HD11	1:79:A:VAL:H	6	0.96
(1,576)	1:78:A:LEU:HD12	1:79:A:VAL:H	6	0.96
(1,576)	1:78:A:LEU:HD13	1:79:A:VAL:H	6	0.96
(1,246)	1:40:A:LEU:HD11	1:28:A:CYS:HB2	4	0.96
(1,246)	1:40:A:LEU:HD12	1:28:A:CYS:HB2	4	0.96
(1,246)	1:40:A:LEU:HD13	1:28:A:CYS:HB2	4	0.96
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG11	10	0.96
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG12	10	0.96
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG13	10	0.96
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG11	10	0.96
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG12	10	0.96
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG13	10	0.96
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG11	10	0.96
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG12	10	0.96
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG13	10	0.96
(1,134)	1:24:A:ILE:HD11	1:40:A:LEU:HG	4	0.96
(1,134)	1:24:A:ILE:HD12	1:40:A:LEU:HG	4	0.96
(1,134)	1:24:A:ILE:HD13	1:40:A:LEU:HG	4	0.96
(1,2429)	1:97:A:GLU:HG3	1:143:B:LYS:H	5	0.95
(1,1136)	1:152:A:LEU:H	1:152:A:LEU:HG	8	0.95
(1,1097)	1:148:A:GLU:H	1:148:A:GLU:HG2	6	0.95
(1,1083)	1:147:A:LYS:H	1:147:A:LYS:HG3	14	0.95
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG12	7	0.95
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG13	7	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,937)	1:132:A:ARG:H	1:133:A:MET:H	2	0.95
(1,676)	1:91:A:GLU:H	1:91:A:GLU:HG2	1	0.95
(1,617)	1:82:A:SER:H	1:82:A:SER:HG	14	0.95
(1,576)	1:78:A:LEU:HD11	1:79:A:VAL:H	4	0.95
(1,576)	1:78:A:LEU:HD12	1:79:A:VAL:H	4	0.95
(1,576)	1:78:A:LEU:HD13	1:79:A:VAL:H	4	0.95
(1,256)	1:40:A:LEU:HD21	1:145:A:LEU:HD11	5	0.95
(1,256)	1:40:A:LEU:HD21	1:145:A:LEU:HD12	5	0.95
(1,256)	1:40:A:LEU:HD21	1:145:A:LEU:HD13	5	0.95
(1,256)	1:40:A:LEU:HD22	1:145:A:LEU:HD11	5	0.95
(1,256)	1:40:A:LEU:HD22	1:145:A:LEU:HD12	5	0.95
(1,256)	1:40:A:LEU:HD22	1:145:A:LEU:HD13	5	0.95
(1,256)	1:40:A:LEU:HD23	1:145:A:LEU:HD11	5	0.95
(1,256)	1:40:A:LEU:HD23	1:145:A:LEU:HD12	5	0.95
(1,256)	1:40:A:LEU:HD23	1:145:A:LEU:HD13	5	0.95
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB1	10	0.95
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB2	10	0.95
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB3	10	0.95
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB1	10	0.95
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB2	10	0.95
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB3	10	0.95
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB1	10	0.95
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB2	10	0.95
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB3	10	0.95
(1,55)	1:18:A:MET:HE1	1:48:A:ALA:HA	8	0.95
(1,55)	1:18:A:MET:HE2	1:48:A:ALA:HA	8	0.95
(1,55)	1:18:A:MET:HE3	1:48:A:ALA:HA	8	0.95
(1,2127)	1:132:B:ARG:H	1:133:B:MET:H	4	0.94
(1,1355)	1:25:B:ILE:HG21	1:83:B:PHE:HE1	6	0.94
(1,1355)	1:25:B:ILE:HG22	1:83:B:PHE:HE1	6	0.94
(1,1355)	1:25:B:ILE:HG23	1:83:B:PHE:HE1	6	0.94
(1,948)	1:134:A:LYS:H	1:134:A:LYS:HD2	11	0.94
(1,937)	1:132:A:ARG:H	1:133:A:MET:H	7	0.94
(1,795)	1:103:A:ALA:HB1	1:15:A:LEU:HB3	12	0.94
(1,795)	1:103:A:ALA:HB2	1:15:A:LEU:HB3	12	0.94
(1,795)	1:103:A:ALA:HB3	1:15:A:LEU:HB3	12	0.94
(1,718)	1:95:A:LYS:H	1:95:A:LYS:HD3	10	0.94
(1,676)	1:91:A:GLU:H	1:91:A:GLU:HG2	9	0.94
(1,655)	1:88:A:SER:H	1:89:A:GLY:H	7	0.94
(1,576)	1:78:A:LEU:HD11	1:79:A:VAL:H	11	0.94
(1,576)	1:78:A:LEU:HD12	1:79:A:VAL:H	11	0.94
(1,576)	1:78:A:LEU:HD13	1:79:A:VAL:H	11	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,531)	1:75:A:LEU:HD11	1:95:A:LYS:HD2	3	0.94
(1,531)	1:75:A:LEU:HD12	1:95:A:LYS:HD2	3	0.94
(1,531)	1:75:A:LEU:HD13	1:95:A:LYS:HD2	3	0.94
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD11	1	0.94
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD12	1	0.94
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD13	1	0.94
(1,348)	1:50:A:GLN:H	1:50:A:GLN:HG3	4	0.94
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB1	13	0.94
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB2	13	0.94
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB3	13	0.94
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB1	13	0.94
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB2	13	0.94
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB3	13	0.94
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB1	13	0.94
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB2	13	0.94
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB3	13	0.94
(1,25)	1:15:A:LEU:HD11	1:103:A:ALA:HA	11	0.94
(1,25)	1:15:A:LEU:HD12	1:103:A:ALA:HA	11	0.94
(1,25)	1:15:A:LEU:HD13	1:103:A:ALA:HA	11	0.94
(1,2446)	1:139:A:GLU:H	1:100:B:LYS:HE3	6	0.93
(1,1726)	1:75:B:LEU:HD21	1:95:B:LYS:HB3	8	0.93
(1,1726)	1:75:B:LEU:HD22	1:95:B:LYS:HB3	8	0.93
(1,1726)	1:75:B:LEU:HD23	1:95:B:LYS:HB3	8	0.93
(1,739)	1:97:A:GLU:H	1:97:A:GLU:HG2	10	0.93
(1,718)	1:95:A:LYS:H	1:95:A:LYS:HD3	9	0.93
(1,676)	1:91:A:GLU:H	1:91:A:GLU:HG2	4	0.93
(1,622)	1:82:A:SER:H	1:83:A:PHE:HB3	1	0.93
(1,622)	1:82:A:SER:H	1:83:A:PHE:HB3	8	0.93
(1,617)	1:82:A:SER:H	1:82:A:SER:HG	2	0.93
(1,576)	1:78:A:LEU:HD11	1:79:A:VAL:H	8	0.93
(1,576)	1:78:A:LEU:HD12	1:79:A:VAL:H	8	0.93
(1,576)	1:78:A:LEU:HD13	1:79:A:VAL:H	8	0.93
(1,576)	1:78:A:LEU:HD11	1:79:A:VAL:H	12	0.93
(1,576)	1:78:A:LEU:HD12	1:79:A:VAL:H	12	0.93
(1,576)	1:78:A:LEU:HD13	1:79:A:VAL:H	12	0.93
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD21	9	0.93
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD22	9	0.93
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD23	9	0.93
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD21	9	0.93
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD22	9	0.93
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD23	9	0.93
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD21	9	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD22	9	0.93
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD23	9	0.93
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD11	9	0.93
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD12	9	0.93
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD13	9	0.93
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD11	9	0.93
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD12	9	0.93
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD13	9	0.93
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD11	9	0.93
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD12	9	0.93
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD13	9	0.93
(1,143)	1:24:A:ILE:HG21	1:142:A:ILE:HB	12	0.93
(1,143)	1:24:A:ILE:HG22	1:142:A:ILE:HB	12	0.93
(1,143)	1:24:A:ILE:HG23	1:142:A:ILE:HB	12	0.93
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD21	2	0.93
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD22	2	0.93
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD23	2	0.93
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD21	2	0.93
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD22	2	0.93
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD23	2	0.93
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD21	2	0.93
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD22	2	0.93
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD23	2	0.93
(1,2475)	1:147:A:LYS:HD3	1:93:B:LYS:H	13	0.92
(1,2468)	1:93:A:LYS:H	1:147:B:LYS:HB3	7	0.92
(1,2450)	1:137:A:GLU:H	1:104:B:LYS:HE3	4	0.92
(1,2127)	1:132:B:ARG:H	1:133:B:MET:H	10	0.92
(1,2127)	1:132:B:ARG:H	1:133:B:MET:H	12	0.92
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD11	10	0.92
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD12	10	0.92
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD13	10	0.92
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD11	10	0.92
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD12	10	0.92
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD13	10	0.92
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD11	10	0.92
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD12	10	0.92
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD13	10	0.92
(1,1647)	1:68:B:VAL:HG11	1:106:B:ARG:HG3	6	0.92
(1,1647)	1:68:B:VAL:HG12	1:106:B:ARG:HG3	6	0.92
(1,1647)	1:68:B:VAL:HG13	1:106:B:ARG:HG3	6	0.92
(1,1136)	1:152:A:LEU:H	1:152:A:LEU:HG	10	0.92
(1,890)	1:124:A:ARG:H	1:124:A:ARG:HB2	2	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,718)	1:95:A:LYS:H	1:95:A:LYS:HD3	8	0.92
(1,649)	1:87:A:THR:H	1:88:A:SER:H	6	0.92
(1,617)	1:82:A:SER:H	1:82:A:SER:HG	5	0.92
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD11	8	0.92
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD12	8	0.92
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD13	8	0.92
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD11	8	0.92
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD12	8	0.92
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD13	8	0.92
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD11	8	0.92
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD12	8	0.92
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD13	8	0.92
(1,576)	1:78:A:LEU:HD11	1:79:A:VAL:H	14	0.92
(1,576)	1:78:A:LEU:HD12	1:79:A:VAL:H	14	0.92
(1,576)	1:78:A:LEU:HD13	1:79:A:VAL:H	14	0.92
(1,335)	1:48:A:ALA:HB1	1:18:A:MET:HG2	10	0.92
(1,335)	1:48:A:ALA:HB2	1:18:A:MET:HG2	10	0.92
(1,335)	1:48:A:ALA:HB3	1:18:A:MET:HG2	10	0.92
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG21	10	0.92
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG22	10	0.92
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG23	10	0.92
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG21	10	0.92
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG22	10	0.92
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG23	10	0.92
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG21	10	0.92
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG22	10	0.92
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG23	10	0.92
(1,2486)	1:94:A:ALA:H	1:147:B:LYS:HE2	11	0.91
(1,2480)	1:93:A:LYS:H	1:147:B:LYS:HE3	10	0.91
(1,2476)	1:93:A:LYS:H	1:147:B:LYS:HD3	7	0.91
(1,2476)	1:93:A:LYS:H	1:147:B:LYS:HD3	9	0.91
(1,2418)	1:146:A:GLU:H	1:93:B:LYS:HE3	8	0.91
(1,2023)	1:112:B:GLN:H	1:112:B:GLN:HG2	12	0.91
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD11	6	0.91
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD12	6	0.91
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD13	6	0.91
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG12	3	0.91
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG13	3	0.91
(1,908)	1:126:A:LYS:H	1:126:A:LYS:HB3	4	0.91
(1,576)	1:78:A:LEU:HD11	1:79:A:VAL:H	13	0.91
(1,576)	1:78:A:LEU:HD12	1:79:A:VAL:H	13	0.91
(1,576)	1:78:A:LEU:HD13	1:79:A:VAL:H	13	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,570)	1:78:A:LEU:H	1:78:A:LEU:HB2	10	0.91
(1,416)	1:59:A:LYS:HB2	1:60:A:ALA:H	15	0.91
(1,331)	1:48:A:ALA:HB1	1:18:A:MET:HA	9	0.91
(1,331)	1:48:A:ALA:HB2	1:18:A:MET:HA	9	0.91
(1,331)	1:48:A:ALA:HB3	1:18:A:MET:HA	9	0.91
(1,256)	1:40:A:LEU:HD21	1:145:A:LEU:HD11	7	0.91
(1,256)	1:40:A:LEU:HD21	1:145:A:LEU:HD12	7	0.91
(1,256)	1:40:A:LEU:HD21	1:145:A:LEU:HD13	7	0.91
(1,256)	1:40:A:LEU:HD22	1:145:A:LEU:HD11	7	0.91
(1,256)	1:40:A:LEU:HD22	1:145:A:LEU:HD12	7	0.91
(1,256)	1:40:A:LEU:HD22	1:145:A:LEU:HD13	7	0.91
(1,256)	1:40:A:LEU:HD23	1:145:A:LEU:HD11	7	0.91
(1,256)	1:40:A:LEU:HD23	1:145:A:LEU:HD12	7	0.91
(1,256)	1:40:A:LEU:HD23	1:145:A:LEU:HD13	7	0.91
(1,2469)	1:147:A:LYS:HB2	1:93:B:LYS:H	14	0.9
(1,1885)	1:92:B:LEU:HD21	1:83:B:PHE:HE2	12	0.9
(1,1885)	1:92:B:LEU:HD22	1:83:B:PHE:HE2	12	0.9
(1,1885)	1:92:B:LEU:HD23	1:83:B:PHE:HE2	12	0.9
(1,1355)	1:25:B:ILE:HG21	1:83:B:PHE:HE1	4	0.9
(1,1355)	1:25:B:ILE:HG22	1:83:B:PHE:HE1	4	0.9
(1,1355)	1:25:B:ILE:HG23	1:83:B:PHE:HE1	4	0.9
(1,1215)	1:15:B:LEU:HD11	1:103:B:ALA:HA	6	0.9
(1,1215)	1:15:B:LEU:HD12	1:103:B:ALA:HA	6	0.9
(1,1215)	1:15:B:LEU:HD13	1:103:B:ALA:HA	6	0.9
(1,946)	1:134:A:LYS:H	1:134:A:LYS:HG2	11	0.9
(1,937)	1:132:A:ARG:H	1:133:A:MET:H	15	0.9
(1,417)	1:59:A:LYS:HG2	1:60:A:ALA:H	9	0.9
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD11	12	0.9
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD12	12	0.9
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD13	12	0.9
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD11	12	0.9
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD12	12	0.9
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD13	12	0.9
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD11	12	0.9
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD12	12	0.9
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD13	12	0.9
(1,2467)	1:147:A:LYS:HB3	1:93:B:LYS:H	7	0.89
(1,1355)	1:25:B:ILE:HG21	1:83:B:PHE:HE1	8	0.89
(1,1355)	1:25:B:ILE:HG22	1:83:B:PHE:HE1	8	0.89
(1,1355)	1:25:B:ILE:HG23	1:83:B:PHE:HE1	8	0.89
(1,1354)	1:25:B:ILE:HG21	1:83:B:PHE:HE2	4	0.89
(1,1354)	1:25:B:ILE:HG22	1:83:B:PHE:HE2	4	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1354)	1:25:B:ILE:HG23	1:83:B:PHE:HE2	4	0.89
(1,1017)	1:141:A:GLU:H	1:141:A:GLU:HG3	1	0.89
(1,839)	1:114:A:LEU:H	1:114:A:LEU:HG	5	0.89
(1,718)	1:95:A:LYS:H	1:95:A:LYS:HD3	14	0.89
(1,536)	1:75:A:LEU:HD21	1:95:A:LYS:HB3	6	0.89
(1,536)	1:75:A:LEU:HD22	1:95:A:LYS:HB3	6	0.89
(1,536)	1:75:A:LEU:HD23	1:95:A:LYS:HB3	6	0.89
(1,416)	1:59:A:LYS:HB2	1:60:A:ALA:H	14	0.89
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD11	11	0.89
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD12	11	0.89
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD13	11	0.89
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD11	11	0.89
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD12	11	0.89
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD13	11	0.89
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD11	11	0.89
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD12	11	0.89
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD13	11	0.89
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG21	12	0.89
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG22	12	0.89
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG23	12	0.89
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG21	12	0.89
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG22	12	0.89
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG23	12	0.89
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG21	12	0.89
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG22	12	0.89
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG23	12	0.89
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG21	14	0.89
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG22	14	0.89
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG23	14	0.89
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG21	14	0.89
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG22	14	0.89
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG23	14	0.89
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG21	14	0.89
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG22	14	0.89
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG23	14	0.89
(1,3)	1:12:A:GLU:H	1:12:A:GLU:HB2	12	0.89
(1,2492)	1:90:A:LYS:H	1:150:B:SER:HB3	2	0.88
(1,2403)	1:93:A:LYS:HB2	1:147:B:LYS:H	4	0.88
(1,1105)	1:149:A:LEU:H	1:149:A:LEU:HD11	4	0.88
(1,1105)	1:149:A:LEU:H	1:149:A:LEU:HD12	4	0.88
(1,1105)	1:149:A:LEU:H	1:149:A:LEU:HD13	4	0.88
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD11	2	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD12	2	0.88
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD13	2	0.88
(1,1010)	1:140:A:GLU:H	1:140:A:GLU:HG2	11	0.88
(1,967)	1:135:A:THR:HG21	1:17:A:ASP:HB2	13	0.88
(1,967)	1:135:A:THR:HG22	1:17:A:ASP:HB2	13	0.88
(1,967)	1:135:A:THR:HG23	1:17:A:ASP:HB2	13	0.88
(1,946)	1:134:A:LYS:H	1:134:A:LYS:HG2	14	0.88
(1,937)	1:132:A:ARG:H	1:133:A:MET:H	8	0.88
(1,931)	1:130:A:LEU:H	1:130:A:LEU:HG	2	0.88
(1,901)	1:125:A:ARG:H	1:125:A:ARG:HD3	9	0.88
(1,718)	1:95:A:LYS:H	1:95:A:LYS:HD3	1	0.88
(1,665)	1:90:A:LYS:H	1:90:A:LYS:HD3	8	0.88
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD21	5	0.88
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD22	5	0.88
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD23	5	0.88
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD21	5	0.88
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD22	5	0.88
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD23	5	0.88
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD21	5	0.88
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD22	5	0.88
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD23	5	0.88
(1,250)	1:40:A:LEU:HD11	1:145:A:LEU:HB3	10	0.88
(1,250)	1:40:A:LEU:HD12	1:145:A:LEU:HB3	10	0.88
(1,250)	1:40:A:LEU:HD13	1:145:A:LEU:HB3	10	0.88
(1,2476)	1:93:A:LYS:H	1:147:B:LYS:HD3	10	0.87
(1,2475)	1:147:A:LYS:HD3	1:93:B:LYS:H	12	0.87
(1,2474)	1:93:A:LYS:H	1:147:B:LYS:HG2	15	0.87
(1,2442)	1:140:A:GLU:H	1:100:B:LYS:HD3	9	0.87
(1,2439)	1:100:A:LYS:HE2	1:140:B:GLU:H	1	0.87
(1,2399)	1:90:A:LYS:HA	1:150:B:SER:H	6	0.87
(1,2396)	1:150:A:SER:H	1:90:B:LYS:HD2	7	0.87
(1,1881)	1:92:B:LEU:HD11	1:83:B:PHE:HE2	7	0.87
(1,1881)	1:92:B:LEU:HD12	1:83:B:PHE:HE2	7	0.87
(1,1881)	1:92:B:LEU:HD13	1:83:B:PHE:HE2	7	0.87
(1,1728)	1:75:B:LEU:HD21	1:95:B:LYS:HG3	5	0.87
(1,1728)	1:75:B:LEU:HD22	1:95:B:LYS:HG3	5	0.87
(1,1728)	1:75:B:LEU:HD23	1:95:B:LYS:HG3	5	0.87
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG12	2	0.87
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG13	2	0.87
(1,937)	1:132:A:ARG:H	1:133:A:MET:H	4	0.87
(1,887)	1:123:A:ALA:HB1	1:124:A:ARG:H	7	0.87
(1,887)	1:123:A:ALA:HB2	1:124:A:ARG:H	7	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,887)	1:123:A:ALA:HB3	1:124:A:ARG:H	7	0.87
(1,700)	1:93:A:LYS:H	1:93:A:LYS:HD3	8	0.87
(1,691)	1:92:A:LEU:HD11	1:83:A:PHE:HE2	3	0.87
(1,691)	1:92:A:LEU:HD12	1:83:A:PHE:HE2	3	0.87
(1,691)	1:92:A:LEU:HD13	1:83:A:PHE:HE2	3	0.87
(1,676)	1:91:A:GLU:H	1:91:A:GLU:HG2	13	0.87
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD21	11	0.87
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD22	11	0.87
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD23	11	0.87
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD21	11	0.87
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD22	11	0.87
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD23	11	0.87
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD21	11	0.87
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD22	11	0.87
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD23	11	0.87
(1,570)	1:78:A:LEU:H	1:78:A:LEU:HB2	2	0.87
(1,570)	1:78:A:LEU:H	1:78:A:LEU:HB2	11	0.87
(1,541)	1:75:A:LEU:HD21	1:95:A:LYS:HE3	11	0.87
(1,541)	1:75:A:LEU:HD22	1:95:A:LYS:HE3	11	0.87
(1,541)	1:75:A:LEU:HD23	1:95:A:LYS:HE3	11	0.87
(1,540)	1:75:A:LEU:HD21	1:95:A:LYS:HD3	9	0.87
(1,540)	1:75:A:LEU:HD22	1:95:A:LYS:HD3	9	0.87
(1,540)	1:75:A:LEU:HD23	1:95:A:LYS:HD3	9	0.87
(1,538)	1:75:A:LEU:HD21	1:95:A:LYS:HG3	9	0.87
(1,538)	1:75:A:LEU:HD22	1:95:A:LYS:HG3	9	0.87
(1,538)	1:75:A:LEU:HD23	1:95:A:LYS:HG3	9	0.87
(1,421)	1:60:A:ALA:HB1	1:61:A:GLN:H	11	0.87
(1,421)	1:60:A:ALA:HB2	1:61:A:GLN:H	11	0.87
(1,421)	1:60:A:ALA:HB3	1:61:A:GLN:H	11	0.87
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD11	15	0.87
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD12	15	0.87
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD13	15	0.87
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD11	15	0.87
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD12	15	0.87
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD13	15	0.87
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD11	15	0.87
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD12	15	0.87
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD13	15	0.87
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB1	12	0.87
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB2	12	0.87
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB3	12	0.87
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB1	12	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB2	12	0.87
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB3	12	0.87
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB1	12	0.87
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB2	12	0.87
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB3	12	0.87
(1,2467)	1:147:A:LYS:HB3	1:93:B:LYS:H	6	0.86
(1,2127)	1:132:B:ARG:H	1:133:B:MET:H	3	0.86
(1,1885)	1:92:B:LEU:HD21	1:83:B:PHE:HE2	10	0.86
(1,1885)	1:92:B:LEU:HD22	1:83:B:PHE:HE2	10	0.86
(1,1885)	1:92:B:LEU:HD23	1:83:B:PHE:HE2	10	0.86
(1,1166)	1:155:A:LYS:H	1:155:A:LYS:HE3	5	0.86
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD11	11	0.86
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD12	11	0.86
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD13	11	0.86
(1,718)	1:95:A:LYS:H	1:95:A:LYS:HD3	12	0.86
(1,676)	1:91:A:GLU:H	1:91:A:GLU:HG2	12	0.86
(1,666)	1:90:A:LYS:H	1:90:A:LYS:HD2	1	0.86
(1,649)	1:87:A:THR:H	1:88:A:SER:H	12	0.86
(1,649)	1:87:A:THR:H	1:88:A:SER:H	13	0.86
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD21	1	0.86
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD22	1	0.86
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD23	1	0.86
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD21	1	0.86
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD22	1	0.86
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD23	1	0.86
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD21	1	0.86
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD22	1	0.86
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD23	1	0.86
(1,570)	1:78:A:LEU:H	1:78:A:LEU:HB2	1	0.86
(1,529)	1:75:A:LEU:HD11	1:95:A:LYS:HG2	15	0.86
(1,529)	1:75:A:LEU:HD12	1:95:A:LYS:HG2	15	0.86
(1,529)	1:75:A:LEU:HD13	1:95:A:LYS:HG2	15	0.86
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD11	7	0.86
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD12	7	0.86
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD13	7	0.86
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD11	10	0.86
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD12	10	0.86
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD13	10	0.86
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD11	10	0.86
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD12	10	0.86
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD13	10	0.86
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD11	10	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD12	10	0.86
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD13	10	0.86
(1,245)	1:40:A:LEU:HD11	1:28:A:CYS:HB3	4	0.86
(1,245)	1:40:A:LEU:HD12	1:28:A:CYS:HB3	4	0.86
(1,245)	1:40:A:LEU:HD13	1:28:A:CYS:HB3	4	0.86
(1,3)	1:12:A:GLU:H	1:12:A:GLU:HB2	3	0.86
(1,2447)	1:100:A:LYS:HE2	1:139:B:GLU:H	13	0.85
(1,2431)	1:97:A:GLU:HG2	1:143:B:LYS:H	10	0.85
(1,2304)	1:149:B:LEU:HD11	1:28:B:CYS:H	6	0.85
(1,2304)	1:149:B:LEU:HD12	1:28:B:CYS:H	6	0.85
(1,2304)	1:149:B:LEU:HD13	1:28:B:CYS:H	6	0.85
(1,1730)	1:75:B:LEU:HD21	1:95:B:LYS:HD3	12	0.85
(1,1730)	1:75:B:LEU:HD22	1:95:B:LYS:HD3	12	0.85
(1,1730)	1:75:B:LEU:HD23	1:95:B:LYS:HD3	12	0.85
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD11	4	0.85
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD12	4	0.85
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD13	4	0.85
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD11	4	0.85
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD12	4	0.85
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD13	4	0.85
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD11	4	0.85
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD12	4	0.85
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD13	4	0.85
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG12	10	0.85
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG13	10	0.85
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD11	8	0.85
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD12	8	0.85
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD13	8	0.85
(1,966)	1:135:A:THR:HG21	1:17:A:ASP:HB3	6	0.85
(1,966)	1:135:A:THR:HG22	1:17:A:ASP:HB3	6	0.85
(1,966)	1:135:A:THR:HG23	1:17:A:ASP:HB3	6	0.85
(1,649)	1:87:A:THR:H	1:88:A:SER:H	9	0.85
(1,529)	1:75:A:LEU:HD11	1:95:A:LYS:HG2	7	0.85
(1,529)	1:75:A:LEU:HD12	1:95:A:LYS:HG2	7	0.85
(1,529)	1:75:A:LEU:HD13	1:95:A:LYS:HG2	7	0.85
(1,334)	1:48:A:ALA:HB1	1:18:A:MET:HG3	6	0.85
(1,334)	1:48:A:ALA:HB2	1:18:A:MET:HG3	6	0.85
(1,334)	1:48:A:ALA:HB3	1:18:A:MET:HG3	6	0.85
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD11	14	0.85
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD12	14	0.85
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD13	14	0.85
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD11	14	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD12	14	0.85
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD13	14	0.85
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD11	14	0.85
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD12	14	0.85
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD13	14	0.85
(1,2487)	1:147:A:LYS:HE3	1:94:B:ALA:HB1	14	0.84
(1,2487)	1:147:A:LYS:HE3	1:94:B:ALA:HB2	14	0.84
(1,2487)	1:147:A:LYS:HE3	1:94:B:ALA:HB3	14	0.84
(1,2429)	1:97:A:GLU:HG3	1:143:B:LYS:H	2	0.84
(1,2127)	1:132:B:ARG:H	1:133:B:MET:H	11	0.84
(1,1723)	1:75:B:LEU:HD11	1:95:B:LYS:HE2	7	0.84
(1,1723)	1:75:B:LEU:HD12	1:95:B:LYS:HE2	7	0.84
(1,1723)	1:75:B:LEU:HD13	1:95:B:LYS:HE2	7	0.84
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD11	6	0.84
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD12	6	0.84
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD13	6	0.84
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD11	6	0.84
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD12	6	0.84
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD13	6	0.84
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD11	6	0.84
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD12	6	0.84
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD13	6	0.84
(1,1041)	1:143:A:LYS:H	1:143:A:LYS:HG3	10	0.84
(1,1000)	1:139:A:GLU:H	1:139:A:GLU:HG2	6	0.84
(1,948)	1:134:A:LYS:H	1:134:A:LYS:HD2	13	0.84
(1,540)	1:75:A:LEU:HD21	1:95:A:LYS:HD3	6	0.84
(1,540)	1:75:A:LEU:HD22	1:95:A:LYS:HD3	6	0.84
(1,540)	1:75:A:LEU:HD23	1:95:A:LYS:HD3	6	0.84
(1,323)	1:47:A:LEU:HD21	1:138:A:ASN:HB2	11	0.84
(1,323)	1:47:A:LEU:HD22	1:138:A:ASN:HB2	11	0.84
(1,323)	1:47:A:LEU:HD23	1:138:A:ASN:HB2	11	0.84
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD21	7	0.84
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD22	7	0.84
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD23	7	0.84
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD21	7	0.84
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD22	7	0.84
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD23	7	0.84
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD21	7	0.84
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD22	7	0.84
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD23	7	0.84
(1,60)	1:18:A:MET:HE1	1:51:A:ASN:HB3	7	0.84
(1,60)	1:18:A:MET:HE2	1:51:A:ASN:HB3	7	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,60)	1:18:A:MET:HE3	1:51:A:ASN:HB3	7	0.84
(1,2462)	1:97:A:GLU:H	1:143:B:LYS:HD2	12	0.83
(1,1136)	1:152:A:LEU:H	1:152:A:LEU:HG	1	0.83
(1,1136)	1:152:A:LEU:H	1:152:A:LEU:HG	13	0.83
(1,1000)	1:139:A:GLU:H	1:139:A:GLU:HG2	11	0.83
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD11	14	0.83
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD12	14	0.83
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD13	14	0.83
(1,966)	1:135:A:THR:HG21	1:17:A:ASP:HB3	5	0.83
(1,966)	1:135:A:THR:HG22	1:17:A:ASP:HB3	5	0.83
(1,966)	1:135:A:THR:HG23	1:17:A:ASP:HB3	5	0.83
(1,940)	1:133:A:MET:H	1:133:A:MET:HB2	11	0.83
(1,937)	1:132:A:ARG:H	1:133:A:MET:H	10	0.83
(1,761)	1:99:A:LEU:HD21	1:19:A:THR:HA	4	0.83
(1,761)	1:99:A:LEU:HD22	1:19:A:THR:HA	4	0.83
(1,761)	1:99:A:LEU:HD23	1:19:A:THR:HA	4	0.83
(1,570)	1:78:A:LEU:H	1:78:A:LEU:HB2	14	0.83
(1,416)	1:59:A:LYS:HB2	1:60:A:ALA:H	7	0.83
(1,413)	1:59:A:LYS:H	1:59:A:LYS:HB2	5	0.83
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG11	14	0.83
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG12	14	0.83
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG13	14	0.83
(1,200)	1:33:A:LEU:HD11	1:152:A:LEU:HD11	14	0.83
(1,200)	1:33:A:LEU:HD11	1:152:A:LEU:HD12	14	0.83
(1,200)	1:33:A:LEU:HD11	1:152:A:LEU:HD13	14	0.83
(1,200)	1:33:A:LEU:HD12	1:152:A:LEU:HD11	14	0.83
(1,200)	1:33:A:LEU:HD12	1:152:A:LEU:HD12	14	0.83
(1,200)	1:33:A:LEU:HD12	1:152:A:LEU:HD13	14	0.83
(1,200)	1:33:A:LEU:HD13	1:152:A:LEU:HD11	14	0.83
(1,200)	1:33:A:LEU:HD13	1:152:A:LEU:HD12	14	0.83
(1,200)	1:33:A:LEU:HD13	1:152:A:LEU:HD13	14	0.83
(1,146)	1:24:A:ILE:HG21	1:146:A:GLU:HG2	8	0.83
(1,146)	1:24:A:ILE:HG22	1:146:A:GLU:HG2	8	0.83
(1,146)	1:24:A:ILE:HG23	1:146:A:GLU:HG2	8	0.83
(1,107)	1:22:A:GLU:H	1:22:A:GLU:HG3	8	0.83
(1,106)	1:22:A:GLU:H	1:22:A:GLU:HG3	8	0.83
(1,2484)	1:94:A:ALA:H	1:147:B:LYS:HE3	5	0.82
(1,2454)	1:96:A:GLU:H	1:143:B:LYS:HD2	11	0.82
(1,2453)	1:143:A:LYS:HD2	1:96:B:GLU:H	12	0.82
(1,2127)	1:132:B:ARG:H	1:133:B:MET:H	8	0.82
(1,2127)	1:132:B:ARG:H	1:133:B:MET:H	9	0.82
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD11	12	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD12	12	0.82
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD13	12	0.82
(1,1017)	1:141:A:GLU:H	1:141:A:GLU:HG3	9	0.82
(1,940)	1:133:A:MET:H	1:133:A:MET:HB2	5	0.82
(1,739)	1:97:A:GLU:H	1:97:A:GLU:HG2	12	0.82
(1,718)	1:95:A:LYS:H	1:95:A:LYS:HD3	13	0.82
(1,649)	1:87:A:THR:H	1:88:A:SER:H	4	0.82
(1,464)	1:68:A:VAL:HG11	1:102:A:LYS:HE2	15	0.82
(1,464)	1:68:A:VAL:HG12	1:102:A:LYS:HE2	15	0.82
(1,464)	1:68:A:VAL:HG13	1:102:A:LYS:HE2	15	0.82
(1,425)	1:61:A:GLN:H	1:62:A:TYR:H	15	0.82
(1,417)	1:59:A:LYS:HG2	1:60:A:ALA:H	4	0.82
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD11	2	0.82
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD12	2	0.82
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD13	2	0.82
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD11	3	0.82
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD12	3	0.82
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD13	3	0.82
(1,193)	1:30:A:LYS:H	1:31:A:GLN:H	14	0.82
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG11	6	0.82
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG12	6	0.82
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG13	6	0.82
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG11	6	0.82
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG12	6	0.82
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG13	6	0.82
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG11	6	0.82
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG12	6	0.82
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG13	6	0.82
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG11	12	0.82
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG12	12	0.82
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG13	12	0.82
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG11	12	0.82
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG12	12	0.82
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG13	12	0.82
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG11	12	0.82
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG12	12	0.82
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG13	12	0.82
(1,129)	1:24:A:ILE:HA	1:26:A:TYR:H	10	0.82
(1,2467)	1:147:A:LYS:HB3	1:93:B:LYS:H	11	0.81
(1,2430)	1:143:A:LYS:H	1:97:B:GLU:HG3	11	0.81
(1,2430)	1:143:A:LYS:H	1:97:B:GLU:HG3	15	0.81
(1,966)	1:135:A:THR:HG21	1:17:A:ASP:HB3	7	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,966)	1:135:A:THR:HG22	1:17:A:ASP:HB3	7	0.81
(1,966)	1:135:A:THR:HG23	1:17:A:ASP:HB3	7	0.81
(1,937)	1:132:A:ARG:H	1:133:A:MET:H	5	0.81
(1,931)	1:130:A:LEU:H	1:130:A:LEU:HG	1	0.81
(1,796)	1:103:A:ALA:HB1	1:15:A:LEU:HB2	11	0.81
(1,796)	1:103:A:ALA:HB2	1:15:A:LEU:HB2	11	0.81
(1,796)	1:103:A:ALA:HB3	1:15:A:LEU:HB2	11	0.81
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG21	7	0.81
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG22	7	0.81
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG23	7	0.81
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG11	8	0.81
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG12	8	0.81
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG13	8	0.81
(1,251)	1:40:A:LEU:HD11	1:145:A:LEU:HB2	7	0.81
(1,251)	1:40:A:LEU:HD12	1:145:A:LEU:HB2	7	0.81
(1,251)	1:40:A:LEU:HD13	1:145:A:LEU:HB2	7	0.81
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB1	10	0.81
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB2	10	0.81
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB3	10	0.81
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB1	10	0.81
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB2	10	0.81
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB3	10	0.81
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB1	10	0.81
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB2	10	0.81
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB3	10	0.81
(1,2486)	1:94:A:ALA:H	1:147:B:LYS:HE2	15	0.8
(1,2460)	1:97:A:GLU:H	1:143:B:LYS:HD3	10	0.8
(1,2438)	1:140:A:GLU:H	1:100:B:LYS:HE3	1	0.8
(1,2023)	1:112:B:GLN:H	1:112:B:GLN:HG2	3	0.8
(1,1732)	1:75:B:LEU:HD21	1:95:B:LYS:HE2	3	0.8
(1,1732)	1:75:B:LEU:HD22	1:95:B:LYS:HE2	3	0.8
(1,1732)	1:75:B:LEU:HD23	1:95:B:LYS:HE2	3	0.8
(1,941)	1:133:A:MET:H	1:133:A:MET:HE1	7	0.8
(1,941)	1:133:A:MET:H	1:133:A:MET:HE2	7	0.8
(1,941)	1:133:A:MET:H	1:133:A:MET:HE3	7	0.8
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD11	6	0.8
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD12	6	0.8
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD13	6	0.8
(1,622)	1:82:A:SER:H	1:83:A:PHE:HB3	6	0.8
(1,524)	1:75:A:LEU:HD21	1:76:A:VAL:H	7	0.8
(1,524)	1:75:A:LEU:HD22	1:76:A:VAL:H	7	0.8
(1,524)	1:75:A:LEU:HD23	1:76:A:VAL:H	7	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG21	15	0.8
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG22	15	0.8
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG23	15	0.8
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG11	1	0.8
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG12	1	0.8
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG13	1	0.8
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG11	2	0.8
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG12	2	0.8
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG13	2	0.8
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG11	3	0.8
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG12	3	0.8
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG13	3	0.8
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG11	9	0.8
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG12	9	0.8
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG13	9	0.8
(1,250)	1:40:A:LEU:HD11	1:145:A:LEU:HB3	11	0.8
(1,250)	1:40:A:LEU:HD12	1:145:A:LEU:HB3	11	0.8
(1,250)	1:40:A:LEU:HD13	1:145:A:LEU:HB3	11	0.8
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG11	8	0.8
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG12	8	0.8
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG13	8	0.8
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG11	8	0.8
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG12	8	0.8
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG13	8	0.8
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG11	8	0.8
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG12	8	0.8
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG13	8	0.8
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG21	4	0.8
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG22	4	0.8
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG23	4	0.8
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG21	4	0.8
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG22	4	0.8
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG23	4	0.8
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG21	4	0.8
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG22	4	0.8
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG23	4	0.8
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD11	11	0.8
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD12	11	0.8
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD13	11	0.8
(1,2484)	1:94:A:ALA:H	1:147:B:LYS:HE3	10	0.79
(1,2452)	1:137:A:GLU:H	1:104:B:LYS:HE2	6	0.79
(1,2429)	1:97:A:GLU:HG3	1:143:B:LYS:H	4	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1603)	1:59:B:LYS:H	1:59:B:LYS:HB2	9	0.79
(1,1117)	1:149:A:LEU:HD21	1:27:A:HIS:HA	1	0.79
(1,1117)	1:149:A:LEU:HD22	1:27:A:HIS:HA	1	0.79
(1,1117)	1:149:A:LEU:HD23	1:27:A:HIS:HA	1	0.79
(1,937)	1:132:A:ARG:H	1:133:A:MET:H	11	0.79
(1,887)	1:123:A:ALA:HB1	1:124:A:ARG:H	4	0.79
(1,887)	1:123:A:ALA:HB2	1:124:A:ARG:H	4	0.79
(1,887)	1:123:A:ALA:HB3	1:124:A:ARG:H	4	0.79
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD11	14	0.79
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD12	14	0.79
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD13	14	0.79
(1,695)	1:92:A:LEU:HD21	1:83:A:PHE:HE2	3	0.79
(1,695)	1:92:A:LEU:HD22	1:83:A:PHE:HE2	3	0.79
(1,695)	1:92:A:LEU:HD23	1:83:A:PHE:HE2	3	0.79
(1,649)	1:87:A:THR:H	1:88:A:SER:H	8	0.79
(1,570)	1:78:A:LEU:H	1:78:A:LEU:HB2	13	0.79
(1,540)	1:75:A:LEU:HD21	1:95:A:LYS:HD3	14	0.79
(1,540)	1:75:A:LEU:HD22	1:95:A:LYS:HD3	14	0.79
(1,540)	1:75:A:LEU:HD23	1:95:A:LYS:HD3	14	0.79
(1,413)	1:59:A:LYS:H	1:59:A:LYS:HB2	8	0.79
(1,413)	1:59:A:LYS:H	1:59:A:LYS:HB2	15	0.79
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD11	14	0.79
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD12	14	0.79
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD13	14	0.79
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG11	5	0.79
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG12	5	0.79
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG13	5	0.79
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG11	15	0.79
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG12	15	0.79
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG13	15	0.79
(1,2491)	1:150:A:SER:HB3	1:90:B:LYS:H	13	0.78
(1,2474)	1:93:A:LYS:H	1:147:B:LYS:HG2	7	0.78
(1,2470)	1:93:A:LYS:H	1:147:B:LYS:HB2	12	0.78
(1,2456)	1:97:A:GLU:H	1:143:B:LYS:HG3	12	0.78
(1,2432)	1:143:A:LYS:H	1:97:B:GLU:HG2	13	0.78
(1,2025)	1:113:B:GLU:H	1:114:B:LEU:H	4	0.78
(1,1245)	1:18:B:MET:HE1	1:48:B:ALA:HA	7	0.78
(1,1245)	1:18:B:MET:HE2	1:48:B:ALA:HA	7	0.78
(1,1245)	1:18:B:MET:HE3	1:48:B:ALA:HA	7	0.78
(1,1245)	1:18:B:MET:HE1	1:48:B:ALA:HA	11	0.78
(1,1245)	1:18:B:MET:HE2	1:48:B:ALA:HA	11	0.78
(1,1245)	1:18:B:MET:HE3	1:48:B:ALA:HA	11	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1193)	1:12:B:GLU:H	1:12:B:GLU:HB2	7	0.78
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD11	2	0.78
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD12	2	0.78
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD13	2	0.78
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD11	2	0.78
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD12	2	0.78
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD13	2	0.78
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD11	2	0.78
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD12	2	0.78
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD13	2	0.78
(1,1106)	1:149:A:LEU:H	1:149:A:LEU:HD21	3	0.78
(1,1106)	1:149:A:LEU:H	1:149:A:LEU:HD22	3	0.78
(1,1106)	1:149:A:LEU:H	1:149:A:LEU:HD23	3	0.78
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD11	9	0.78
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD12	9	0.78
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD13	9	0.78
(1,1003)	1:139:A:GLU:H	1:142:A:ILE:H	8	0.78
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD11	2	0.78
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD12	2	0.78
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD13	2	0.78
(1,966)	1:135:A:THR:HG21	1:17:A:ASP:HB3	1	0.78
(1,966)	1:135:A:THR:HG22	1:17:A:ASP:HB3	1	0.78
(1,966)	1:135:A:THR:HG23	1:17:A:ASP:HB3	1	0.78
(1,887)	1:123:A:ALA:HB1	1:124:A:ARG:H	15	0.78
(1,887)	1:123:A:ALA:HB2	1:124:A:ARG:H	15	0.78
(1,887)	1:123:A:ALA:HB3	1:124:A:ARG:H	15	0.78
(1,839)	1:114:A:LEU:H	1:114:A:LEU:HG	4	0.78
(1,570)	1:78:A:LEU:H	1:78:A:LEU:HB2	12	0.78
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG21	2	0.78
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG22	2	0.78
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG23	2	0.78
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG11	11	0.78
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG12	11	0.78
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG13	11	0.78
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG11	12	0.78
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG12	12	0.78
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG13	12	0.78
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG11	13	0.78
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG12	13	0.78
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG13	13	0.78
(1,250)	1:40:A:LEU:HD11	1:145:A:LEU:HB3	2	0.78
(1,250)	1:40:A:LEU:HD12	1:145:A:LEU:HB3	2	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,250)	1:40:A:LEU:HD13	1:145:A:LEU:HB3	2	0.78
(1,247)	1:40:A:LEU:HD21	1:28:A:CYS:HB2	14	0.78
(1,247)	1:40:A:LEU:HD22	1:28:A:CYS:HB2	14	0.78
(1,247)	1:40:A:LEU:HD23	1:28:A:CYS:HB2	14	0.78
(1,168)	1:26:A:TYR:H	1:26:A:TYR:HD1	3	0.78
(1,131)	1:24:A:ILE:HD11	1:40:A:LEU:HA	4	0.78
(1,131)	1:24:A:ILE:HD12	1:40:A:LEU:HA	4	0.78
(1,131)	1:24:A:ILE:HD13	1:40:A:LEU:HA	4	0.78
(1,3)	1:12:A:GLU:H	1:12:A:GLU:HB2	2	0.78
(1,3)	1:12:A:GLU:H	1:12:A:GLU:HB2	14	0.78
(1,2491)	1:150:A:SER:HB3	1:90:B:LYS:H	14	0.77
(1,2488)	1:94:A:ALA:HB1	1:147:B:LYS:HE3	15	0.77
(1,2488)	1:94:A:ALA:HB2	1:147:B:LYS:HE3	15	0.77
(1,2488)	1:94:A:ALA:HB3	1:147:B:LYS:HE3	15	0.77
(1,2415)	1:93:A:LYS:HE2	1:147:B:LYS:H	4	0.77
(1,1885)	1:92:B:LEU:HD21	1:83:B:PHE:HE2	2	0.77
(1,1885)	1:92:B:LEU:HD22	1:83:B:PHE:HE2	2	0.77
(1,1885)	1:92:B:LEU:HD23	1:83:B:PHE:HE2	2	0.77
(1,1193)	1:12:B:GLU:H	1:12:B:GLU:HB2	15	0.77
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG12	13	0.77
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG13	13	0.77
(1,1024)	1:142:A:ILE:H	1:142:A:ILE:HB	4	0.77
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD11	4	0.77
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD12	4	0.77
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD13	4	0.77
(1,945)	1:134:A:LYS:H	1:134:A:LYS:HG3	14	0.77
(1,540)	1:75:A:LEU:HD21	1:95:A:LYS:HD3	3	0.77
(1,540)	1:75:A:LEU:HD22	1:95:A:LYS:HD3	3	0.77
(1,540)	1:75:A:LEU:HD23	1:95:A:LYS:HD3	3	0.77
(1,335)	1:48:A:ALA:HB1	1:18:A:MET:HG2	14	0.77
(1,335)	1:48:A:ALA:HB2	1:18:A:MET:HG2	14	0.77
(1,335)	1:48:A:ALA:HB3	1:18:A:MET:HG2	14	0.77
(1,322)	1:47:A:LEU:HD21	1:138:A:ASN:HB3	11	0.77
(1,322)	1:47:A:LEU:HD22	1:138:A:ASN:HB3	11	0.77
(1,322)	1:47:A:LEU:HD23	1:138:A:ASN:HB3	11	0.77
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG21	9	0.77
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG22	9	0.77
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG23	9	0.77
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG11	4	0.77
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG12	4	0.77
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG13	4	0.77
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG11	6	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG12	6	0.77
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG13	6	0.77
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG11	7	0.77
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG12	7	0.77
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG13	7	0.77
(1,2438)	1:140:A:GLU:H	1:100:B:LYS:HE3	6	0.76
(1,2156)	1:135:B:THR:HG21	1:17:B:ASP:HB3	7	0.76
(1,2156)	1:135:B:THR:HG22	1:17:B:ASP:HB3	7	0.76
(1,2156)	1:135:B:THR:HG23	1:17:B:ASP:HB3	7	0.76
(1,1017)	1:141:A:GLU:H	1:141:A:GLU:HG3	8	0.76
(1,925)	1:129:A:GLU:H	1:129:A:GLU:HB3	8	0.76
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD11	9	0.76
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD12	9	0.76
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD13	9	0.76
(1,676)	1:91:A:GLU:H	1:91:A:GLU:HG2	11	0.76
(1,622)	1:82:A:SER:H	1:83:A:PHE:HB3	4	0.76
(1,530)	1:75:A:LEU:HD11	1:95:A:LYS:HD3	3	0.76
(1,530)	1:75:A:LEU:HD12	1:95:A:LYS:HD3	3	0.76
(1,530)	1:75:A:LEU:HD13	1:95:A:LYS:HD3	3	0.76
(1,421)	1:60:A:ALA:HB1	1:61:A:GLN:H	12	0.76
(1,421)	1:60:A:ALA:HB2	1:61:A:GLN:H	12	0.76
(1,421)	1:60:A:ALA:HB3	1:61:A:GLN:H	12	0.76
(1,348)	1:50:A:GLN:H	1:50:A:GLN:HG3	1	0.76
(1,348)	1:50:A:GLN:H	1:50:A:GLN:HG3	8	0.76
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG21	6	0.76
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG22	6	0.76
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG23	6	0.76
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG21	8	0.76
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG22	8	0.76
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG23	8	0.76
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG11	10	0.76
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG12	10	0.76
(1,289)	1:45:A:VAL:H	1:45:A:VAL:HG13	10	0.76
(1,64)	1:18:A:MET:HE1	1:52:A:VAL:HB	9	0.76
(1,64)	1:18:A:MET:HE2	1:52:A:VAL:HB	9	0.76
(1,64)	1:18:A:MET:HE3	1:52:A:VAL:HB	9	0.76
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB1	1	0.76
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB2	1	0.76
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB3	1	0.76
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB1	1	0.76
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB2	1	0.76
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB3	1	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB1	1	0.76
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB2	1	0.76
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB3	1	0.76
(1,1775)	1:78:B:LEU:HD11	1:95:B:LYS:HE3	15	0.75
(1,1775)	1:78:B:LEU:HD12	1:95:B:LYS:HE3	15	0.75
(1,1775)	1:78:B:LEU:HD13	1:95:B:LYS:HE3	15	0.75
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD11	11	0.75
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD12	11	0.75
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD13	11	0.75
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD11	11	0.75
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD12	11	0.75
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD13	11	0.75
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD11	11	0.75
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD12	11	0.75
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD13	11	0.75
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD11	1	0.75
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD12	1	0.75
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD13	1	0.75
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD11	1	0.75
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD12	1	0.75
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD13	1	0.75
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD11	1	0.75
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD12	1	0.75
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD13	1	0.75
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD11	13	0.75
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD12	13	0.75
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD13	13	0.75
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD11	13	0.75
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD12	13	0.75
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD13	13	0.75
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD11	13	0.75
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD12	13	0.75
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD13	13	0.75
(1,1136)	1:152:A:LEU:H	1:152:A:LEU:HG	11	0.75
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD11	14	0.75
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD12	14	0.75
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD13	14	0.75
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG12	12	0.75
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG13	12	0.75
(1,1003)	1:139:A:GLU:H	1:142:A:ILE:H	9	0.75
(1,887)	1:123:A:ALA:HB1	1:124:A:ARG:H	2	0.75
(1,887)	1:123:A:ALA:HB2	1:124:A:ARG:H	2	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,887)	1:123:A:ALA:HB3	1:124:A:ARG:H	2	0.75
(1,622)	1:82:A:SER:H	1:83:A:PHE:HB3	14	0.75
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD11	11	0.75
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD12	11	0.75
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD13	11	0.75
(1,334)	1:48:A:ALA:HB1	1:18:A:MET:HG3	13	0.75
(1,334)	1:48:A:ALA:HB2	1:18:A:MET:HG3	13	0.75
(1,334)	1:48:A:ALA:HB3	1:18:A:MET:HG3	13	0.75
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG21	10	0.75
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG22	10	0.75
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG23	10	0.75
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG21	12	0.75
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG22	12	0.75
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG23	12	0.75
(1,129)	1:24:A:ILE:HA	1:26:A:TYR:H	8	0.75
(1,107)	1:22:A:GLU:H	1:22:A:GLU:HG3	3	0.75
(1,106)	1:22:A:GLU:H	1:22:A:GLU:HG3	3	0.75
(1,2456)	1:97:A:GLU:H	1:143:B:LYS:HG3	4	0.74
(1,2434)	1:144:A:ASN:H	1:97:B:GLU:HG3	6	0.74
(1,2156)	1:135:B:THR:HG21	1:17:B:ASP:HB3	5	0.74
(1,2156)	1:135:B:THR:HG22	1:17:B:ASP:HB3	5	0.74
(1,2156)	1:135:B:THR:HG23	1:17:B:ASP:HB3	5	0.74
(1,2032)	1:116:B:ARG:H	1:116:B:ARG:HA	5	0.74
(1,1331)	1:24:B:ILE:HD11	1:146:B:GLU:HG3	4	0.74
(1,1331)	1:24:B:ILE:HD12	1:146:B:GLU:HG3	4	0.74
(1,1331)	1:24:B:ILE:HD13	1:146:B:GLU:HG3	4	0.74
(1,1166)	1:155:A:LYS:H	1:155:A:LYS:HE3	9	0.74
(1,1070)	1:145:A:LEU:HD21	1:40:A:LEU:HA	14	0.74
(1,1070)	1:145:A:LEU:HD22	1:40:A:LEU:HA	14	0.74
(1,1070)	1:145:A:LEU:HD23	1:40:A:LEU:HA	14	0.74
(1,899)	1:125:A:ARG:H	1:125:A:ARG:HG3	13	0.74
(1,842)	1:116:A:ARG:H	1:116:A:ARG:HA	7	0.74
(1,570)	1:78:A:LEU:H	1:78:A:LEU:HB2	6	0.74
(1,463)	1:68:A:VAL:HG11	1:102:A:LYS:HE3	1	0.74
(1,463)	1:68:A:VAL:HG12	1:102:A:LYS:HE3	1	0.74
(1,463)	1:68:A:VAL:HG13	1:102:A:LYS:HE3	1	0.74
(1,421)	1:60:A:ALA:HB1	1:61:A:GLN:H	15	0.74
(1,421)	1:60:A:ALA:HB2	1:61:A:GLN:H	15	0.74
(1,421)	1:60:A:ALA:HB3	1:61:A:GLN:H	15	0.74
(1,416)	1:59:A:LYS:HB2	1:60:A:ALA:H	11	0.74
(1,335)	1:48:A:ALA:HB1	1:18:A:MET:HG2	4	0.74
(1,335)	1:48:A:ALA:HB2	1:18:A:MET:HG2	4	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,335)	1:48:A:ALA:HB3	1:18:A:MET:HG2	4	0.74
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG21	4	0.74
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG22	4	0.74
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG23	4	0.74
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG21	5	0.74
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG22	5	0.74
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG23	5	0.74
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG21	13	0.74
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG22	13	0.74
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG23	13	0.74
(1,164)	1:25:A:ILE:HG21	1:83:A:PHE:HE2	13	0.74
(1,164)	1:25:A:ILE:HG22	1:83:A:PHE:HE2	13	0.74
(1,164)	1:25:A:ILE:HG23	1:83:A:PHE:HE2	13	0.74
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB1	9	0.74
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB2	9	0.74
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB3	9	0.74
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB1	9	0.74
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB2	9	0.74
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB3	9	0.74
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB1	9	0.74
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB2	9	0.74
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB3	9	0.74
(1,3)	1:12:A:GLU:H	1:12:A:GLU:HB2	13	0.74
(1,2024)	1:113:B:GLU:H	1:113:B:GLU:HA	7	0.73
(1,2024)	1:113:B:GLU:H	1:113:B:GLU:HA	10	0.73
(1,1524)	1:48:B:ALA:HB1	1:18:B:MET:HG3	5	0.73
(1,1524)	1:48:B:ALA:HB2	1:18:B:MET:HG3	5	0.73
(1,1524)	1:48:B:ALA:HB3	1:18:B:MET:HG3	5	0.73
(1,1245)	1:18:B:MET:HE1	1:48:B:ALA:HA	13	0.73
(1,1245)	1:18:B:MET:HE2	1:48:B:ALA:HA	13	0.73
(1,1245)	1:18:B:MET:HE3	1:48:B:ALA:HA	13	0.73
(1,1174)	1:156:A:LEU:H	1:156:A:LEU:HG	6	0.73
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD11	15	0.73
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD12	15	0.73
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD13	15	0.73
(1,1024)	1:142:A:ILE:H	1:142:A:ILE:HB	1	0.73
(1,985)	1:137:A:GLU:H	1:137:A:GLU:HG2	4	0.73
(1,908)	1:126:A:LYS:H	1:126:A:LYS:HB3	1	0.73
(1,899)	1:125:A:ARG:H	1:125:A:ARG:HG3	8	0.73
(1,841)	1:115:A:GLU:H	1:115:A:GLU:HA	6	0.73
(1,841)	1:115:A:GLU:H	1:115:A:GLU:HA	7	0.73
(1,841)	1:115:A:GLU:H	1:115:A:GLU:HA	13	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,834)	1:113:A:GLU:H	1:113:A:GLU:HA	10	0.73
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD11	4	0.73
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD12	4	0.73
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD13	4	0.73
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG21	1	0.73
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG22	1	0.73
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG23	1	0.73
(1,132)	1:24:A:ILE:HD11	1:40:A:LEU:HB3	10	0.73
(1,132)	1:24:A:ILE:HD12	1:40:A:LEU:HB3	10	0.73
(1,132)	1:24:A:ILE:HD13	1:40:A:LEU:HB3	10	0.73
(1,93)	1:20:A:PHE:HA	1:22:A:GLU:H	15	0.73
(1,2476)	1:93:A:LYS:H	1:147:B:LYS:HD3	2	0.72
(1,2456)	1:97:A:GLU:H	1:143:B:LYS:HG3	10	0.72
(1,2454)	1:96:A:GLU:H	1:143:B:LYS:HD2	1	0.72
(1,2432)	1:143:A:LYS:H	1:97:B:GLU:HG2	8	0.72
(1,1135)	1:152:A:LEU:H	1:152:A:LEU:HB3	2	0.72
(1,1115)	1:149:A:LEU:HD11	1:28:A:CYS:HA	5	0.72
(1,1115)	1:149:A:LEU:HD12	1:28:A:CYS:HA	5	0.72
(1,1115)	1:149:A:LEU:HD13	1:28:A:CYS:HA	5	0.72
(1,940)	1:133:A:MET:H	1:133:A:MET:HB2	9	0.72
(1,908)	1:126:A:LYS:H	1:126:A:LYS:HB3	13	0.72
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD11	10	0.72
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD12	10	0.72
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD13	10	0.72
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD11	10	0.72
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD12	10	0.72
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD13	10	0.72
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD11	10	0.72
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD12	10	0.72
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD13	10	0.72
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD11	15	0.72
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD12	15	0.72
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD13	15	0.72
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD11	15	0.72
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD12	15	0.72
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD13	15	0.72
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD11	15	0.72
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD12	15	0.72
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD13	15	0.72
(1,539)	1:75:A:LEU:HD21	1:95:A:LYS:HG2	12	0.72
(1,539)	1:75:A:LEU:HD22	1:95:A:LYS:HG2	12	0.72
(1,539)	1:75:A:LEU:HD23	1:95:A:LYS:HG2	12	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,535)	1:75:A:LEU:HD21	1:95:A:LYS:HA	6	0.72
(1,535)	1:75:A:LEU:HD22	1:95:A:LYS:HA	6	0.72
(1,535)	1:75:A:LEU:HD23	1:95:A:LYS:HA	6	0.72
(1,415)	1:59:A:LYS:H	1:60:A:ALA:H	3	0.72
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG11	4	0.72
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG12	4	0.72
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG13	4	0.72
(1,63)	1:18:A:MET:HE1	1:52:A:VAL:HA	8	0.72
(1,63)	1:18:A:MET:HE2	1:52:A:VAL:HA	8	0.72
(1,63)	1:18:A:MET:HE3	1:52:A:VAL:HA	8	0.72
(1,25)	1:15:A:LEU:HD11	1:103:A:ALA:HA	6	0.72
(1,25)	1:15:A:LEU:HD12	1:103:A:ALA:HA	6	0.72
(1,25)	1:15:A:LEU:HD13	1:103:A:ALA:HA	6	0.72
(1,25)	1:15:A:LEU:HD11	1:103:A:ALA:HA	8	0.72
(1,25)	1:15:A:LEU:HD12	1:103:A:ALA:HA	8	0.72
(1,25)	1:15:A:LEU:HD13	1:103:A:ALA:HA	8	0.72
(1,2470)	1:93:A:LYS:H	1:147:B:LYS:HB2	7	0.71
(1,2467)	1:147:A:LYS:HB3	1:93:B:LYS:H	15	0.71
(1,2442)	1:140:A:GLU:H	1:100:B:LYS:HD3	10	0.71
(1,2439)	1:100:A:LYS:HE2	1:140:B:GLU:H	10	0.71
(1,1603)	1:59:B:LYS:H	1:59:B:LYS:HB2	4	0.71
(1,1512)	1:47:B:LEU:HD21	1:138:B:ASN:HB3	10	0.71
(1,1512)	1:47:B:LEU:HD22	1:138:B:ASN:HB3	10	0.71
(1,1512)	1:47:B:LEU:HD23	1:138:B:ASN:HB3	10	0.71
(1,1193)	1:12:B:GLU:H	1:12:B:GLU:HB2	5	0.71
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD11	8	0.71
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD12	8	0.71
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD13	8	0.71
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD11	8	0.71
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD12	8	0.71
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD13	8	0.71
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD11	8	0.71
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD12	8	0.71
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD13	8	0.71
(1,967)	1:135:A:THR:HG21	1:17:A:ASP:HB2	4	0.71
(1,967)	1:135:A:THR:HG22	1:17:A:ASP:HB2	4	0.71
(1,967)	1:135:A:THR:HG23	1:17:A:ASP:HB2	4	0.71
(1,887)	1:123:A:ALA:HB1	1:124:A:ARG:H	12	0.71
(1,887)	1:123:A:ALA:HB2	1:124:A:ARG:H	12	0.71
(1,887)	1:123:A:ALA:HB3	1:124:A:ARG:H	12	0.71
(1,739)	1:97:A:GLU:H	1:97:A:GLU:HG2	8	0.71
(1,547)	1:75:A:LEU:HD21	1:99:A:LEU:HD21	12	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,547)	1:75:A:LEU:HD21	1:99:A:LEU:HD22	12	0.71
(1,547)	1:75:A:LEU:HD21	1:99:A:LEU:HD23	12	0.71
(1,547)	1:75:A:LEU:HD22	1:99:A:LEU:HD21	12	0.71
(1,547)	1:75:A:LEU:HD22	1:99:A:LEU:HD22	12	0.71
(1,547)	1:75:A:LEU:HD22	1:99:A:LEU:HD23	12	0.71
(1,547)	1:75:A:LEU:HD23	1:99:A:LEU:HD21	12	0.71
(1,547)	1:75:A:LEU:HD23	1:99:A:LEU:HD22	12	0.71
(1,547)	1:75:A:LEU:HD23	1:99:A:LEU:HD23	12	0.71
(1,413)	1:59:A:LYS:H	1:59:A:LYS:HB2	11	0.71
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG11	8	0.71
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG12	8	0.71
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG13	8	0.71
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG11	9	0.71
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG12	9	0.71
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG13	9	0.71
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG21	14	0.71
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG22	14	0.71
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG23	14	0.71
(1,251)	1:40:A:LEU:HD11	1:145:A:LEU:HB2	10	0.71
(1,251)	1:40:A:LEU:HD12	1:145:A:LEU:HB2	10	0.71
(1,251)	1:40:A:LEU:HD13	1:145:A:LEU:HB2	10	0.71
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB1	1	0.71
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB2	1	0.71
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB3	1	0.71
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB1	1	0.71
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB2	1	0.71
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB3	1	0.71
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB1	1	0.71
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB2	1	0.71
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB3	1	0.71
(1,2472)	1:93:A:LYS:H	1:147:B:LYS:HG3	13	0.7
(1,2464)	1:97:A:GLU:H	1:143:B:LYS:HE3	10	0.7
(1,2445)	1:100:A:LYS:HE3	1:139:B:GLU:H	9	0.7
(1,2437)	1:100:A:LYS:HE3	1:140:B:GLU:H	5	0.7
(1,2403)	1:93:A:LYS:HB2	1:147:B:LYS:H	1	0.7
(1,2401)	1:93:A:LYS:HB3	1:147:B:LYS:H	8	0.7
(1,1070)	1:145:A:LEU:HD21	1:40:A:LEU:HA	11	0.7
(1,1070)	1:145:A:LEU:HD22	1:40:A:LEU:HA	11	0.7
(1,1070)	1:145:A:LEU:HD23	1:40:A:LEU:HA	11	0.7
(1,946)	1:134:A:LYS:H	1:134:A:LYS:HG2	13	0.7
(1,887)	1:123:A:ALA:HB1	1:124:A:ARG:H	3	0.7
(1,887)	1:123:A:ALA:HB2	1:124:A:ARG:H	3	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,887)	1:123:A:ALA:HB3	1:124:A:ARG:H	3	0.7
(1,701)	1:93:A:LYS:H	1:93:A:LYS:HD2	13	0.7
(1,697)	1:92:A:LEU:HD21	1:26:A:TYR:HE1	12	0.7
(1,697)	1:92:A:LEU:HD22	1:26:A:TYR:HE1	12	0.7
(1,697)	1:92:A:LEU:HD23	1:26:A:TYR:HE1	12	0.7
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD21	13	0.7
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD22	13	0.7
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD23	13	0.7
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD21	13	0.7
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD22	13	0.7
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD23	13	0.7
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD21	13	0.7
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD22	13	0.7
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD23	13	0.7
(1,536)	1:75:A:LEU:HD21	1:95:A:LYS:HB3	15	0.7
(1,536)	1:75:A:LEU:HD22	1:95:A:LYS:HB3	15	0.7
(1,536)	1:75:A:LEU:HD23	1:95:A:LYS:HB3	15	0.7
(1,413)	1:59:A:LYS:H	1:59:A:LYS:HB2	13	0.7
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD11	15	0.7
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD12	15	0.7
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD13	15	0.7
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG11	11	0.7
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG12	11	0.7
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG13	11	0.7
(1,316)	1:47:A:LEU:HB2	1:48:A:ALA:H	11	0.7
(1,316)	1:47:A:LEU:HB3	1:48:A:ALA:H	11	0.7
(1,193)	1:30:A:LYS:H	1:31:A:GLN:H	11	0.7
(1,179)	1:27:A:HIS:HB2	1:28:A:CYS:H	8	0.7
(1,168)	1:26:A:TYR:H	1:26:A:TYR:HD1	11	0.7
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG11	6	0.7
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG12	6	0.7
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG13	6	0.7
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG11	6	0.7
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG12	6	0.7
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG13	6	0.7
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG11	6	0.7
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG12	6	0.7
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG13	6	0.7
(1,2481)	1:147:A:LYS:HE2	1:93:B:LYS:H	4	0.69
(1,2461)	1:143:A:LYS:HD2	1:97:B:GLU:H	11	0.69
(1,2446)	1:139:A:GLU:H	1:100:B:LYS:HE3	13	0.69
(1,1564)	1:52:B:VAL:HG11	1:69:B:GLY:HA2	10	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1564)	1:52:B:VAL:HG12	1:69:B:GLY:HA2	10	0.69
(1,1564)	1:52:B:VAL:HG13	1:69:B:GLY:HA2	10	0.69
(1,1115)	1:149:A:LEU:HD11	1:28:A:CYS:HA	3	0.69
(1,1115)	1:149:A:LEU:HD12	1:28:A:CYS:HA	3	0.69
(1,1115)	1:149:A:LEU:HD13	1:28:A:CYS:HA	3	0.69
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD11	1	0.69
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD12	1	0.69
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD13	1	0.69
(1,970)	1:135:A:THR:HG21	1:18:A:MET:HG3	2	0.69
(1,970)	1:135:A:THR:HG22	1:18:A:MET:HG3	2	0.69
(1,970)	1:135:A:THR:HG23	1:18:A:MET:HG3	2	0.69
(1,967)	1:135:A:THR:HG21	1:17:A:ASP:HB2	14	0.69
(1,967)	1:135:A:THR:HG22	1:17:A:ASP:HB2	14	0.69
(1,967)	1:135:A:THR:HG23	1:17:A:ASP:HB2	14	0.69
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD11	2	0.69
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD12	2	0.69
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD13	2	0.69
(1,813)	1:105:A:MET:H	1:105:A:MET:HG2	14	0.69
(1,729)	1:96:A:GLU:H	1:96:A:GLU:HG3	13	0.69
(1,513)	1:74:A:THR:HG21	1:75:A:LEU:H	7	0.69
(1,513)	1:74:A:THR:HG22	1:75:A:LEU:H	7	0.69
(1,513)	1:74:A:THR:HG23	1:75:A:LEU:H	7	0.69
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG11	13	0.69
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG12	13	0.69
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG13	13	0.69
(1,25)	1:15:A:LEU:HD11	1:103:A:ALA:HA	10	0.69
(1,25)	1:15:A:LEU:HD12	1:103:A:ALA:HA	10	0.69
(1,25)	1:15:A:LEU:HD13	1:103:A:ALA:HA	10	0.69
(1,2440)	1:140:A:GLU:H	1:100:B:LYS:HE2	15	0.68
(1,2432)	1:143:A:LYS:H	1:97:B:GLU:HG2	4	0.68
(1,2396)	1:150:A:SER:H	1:90:B:LYS:HD2	9	0.68
(1,2030)	1:114:B:LEU:H	1:115:B:GLU:H	6	0.68
(1,1720)	1:75:B:LEU:HD11	1:95:B:LYS:HD3	7	0.68
(1,1720)	1:75:B:LEU:HD12	1:95:B:LYS:HD3	7	0.68
(1,1720)	1:75:B:LEU:HD13	1:95:B:LYS:HD3	7	0.68
(1,1193)	1:12:B:GLU:H	1:12:B:GLU:HB2	11	0.68
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG12	8	0.68
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG13	8	0.68
(1,966)	1:135:A:THR:HG21	1:17:A:ASP:HB3	12	0.68
(1,966)	1:135:A:THR:HG22	1:17:A:ASP:HB3	12	0.68
(1,966)	1:135:A:THR:HG23	1:17:A:ASP:HB3	12	0.68
(1,945)	1:134:A:LYS:H	1:134:A:LYS:HG3	1	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,941)	1:133:A:MET:H	1:133:A:MET:HE1	3	0.68
(1,941)	1:133:A:MET:H	1:133:A:MET:HE2	3	0.68
(1,941)	1:133:A:MET:H	1:133:A:MET:HE3	3	0.68
(1,939)	1:133:A:MET:H	1:133:A:MET:HG3	5	0.68
(1,899)	1:125:A:ARG:H	1:125:A:ARG:HG3	10	0.68
(1,866)	1:120:A:GLU:H	1:120:A:GLU:HB3	4	0.68
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD11	7	0.68
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD12	7	0.68
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD13	7	0.68
(1,539)	1:75:A:LEU:HD21	1:95:A:LYS:HG2	15	0.68
(1,539)	1:75:A:LEU:HD22	1:95:A:LYS:HG2	15	0.68
(1,539)	1:75:A:LEU:HD23	1:95:A:LYS:HG2	15	0.68
(1,464)	1:68:A:VAL:HG11	1:102:A:LYS:HE2	11	0.68
(1,464)	1:68:A:VAL:HG12	1:102:A:LYS:HE2	11	0.68
(1,464)	1:68:A:VAL:HG13	1:102:A:LYS:HE2	11	0.68
(1,416)	1:59:A:LYS:HB2	1:60:A:ALA:H	12	0.68
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG11	1	0.68
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG12	1	0.68
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG13	1	0.68
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG11	10	0.68
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG12	10	0.68
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG13	10	0.68
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG21	3	0.68
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG22	3	0.68
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG23	3	0.68
(1,200)	1:33:A:LEU:HD11	1:152:A:LEU:HD11	1	0.68
(1,200)	1:33:A:LEU:HD11	1:152:A:LEU:HD12	1	0.68
(1,200)	1:33:A:LEU:HD11	1:152:A:LEU:HD13	1	0.68
(1,200)	1:33:A:LEU:HD12	1:152:A:LEU:HD11	1	0.68
(1,200)	1:33:A:LEU:HD12	1:152:A:LEU:HD12	1	0.68
(1,200)	1:33:A:LEU:HD12	1:152:A:LEU:HD13	1	0.68
(1,200)	1:33:A:LEU:HD13	1:152:A:LEU:HD11	1	0.68
(1,200)	1:33:A:LEU:HD13	1:152:A:LEU:HD12	1	0.68
(1,200)	1:33:A:LEU:HD13	1:152:A:LEU:HD13	1	0.68
(1,193)	1:30:A:LYS:H	1:31:A:GLN:H	1	0.68
(1,70)	1:19:A:THR:H	1:19:A:THR:HG21	7	0.68
(1,70)	1:19:A:THR:H	1:19:A:THR:HG22	7	0.68
(1,70)	1:19:A:THR:H	1:19:A:THR:HG23	7	0.68
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB1	6	0.68
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB2	6	0.68
(1,56)	1:18:A:MET:HE1	1:48:A:ALA:HB3	6	0.68
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB1	6	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB2	6	0.68
(1,56)	1:18:A:MET:HE2	1:48:A:ALA:HB3	6	0.68
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB1	6	0.68
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB2	6	0.68
(1,56)	1:18:A:MET:HE3	1:48:A:ALA:HB3	6	0.68
(1,2469)	1:147:A:LYS:HB2	1:93:B:LYS:H	12	0.67
(1,1885)	1:92:B:LEU:HD21	1:83:B:PHE:HE2	3	0.67
(1,1885)	1:92:B:LEU:HD22	1:83:B:PHE:HE2	3	0.67
(1,1885)	1:92:B:LEU:HD23	1:83:B:PHE:HE2	3	0.67
(1,1193)	1:12:B:GLU:H	1:12:B:GLU:HB2	4	0.67
(1,1114)	1:149:A:LEU:HD11	1:28:A:CYS:H	4	0.67
(1,1114)	1:149:A:LEU:HD12	1:28:A:CYS:H	4	0.67
(1,1114)	1:149:A:LEU:HD13	1:28:A:CYS:H	4	0.67
(1,1094)	1:148:A:GLU:H	1:148:A:GLU:HB3	8	0.67
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG12	9	0.67
(1,1026)	1:142:A:ILE:H	1:142:A:ILE:HG13	9	0.67
(1,891)	1:124:A:ARG:H	1:124:A:ARG:HD3	11	0.67
(1,739)	1:97:A:GLU:H	1:97:A:GLU:HG2	4	0.67
(1,676)	1:91:A:GLU:H	1:91:A:GLU:HG2	10	0.67
(1,513)	1:74:A:THR:HG21	1:75:A:LEU:H	5	0.67
(1,513)	1:74:A:THR:HG22	1:75:A:LEU:H	5	0.67
(1,513)	1:74:A:THR:HG23	1:75:A:LEU:H	5	0.67
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG11	7	0.67
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG12	7	0.67
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG13	7	0.67
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG11	12	0.67
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG12	12	0.67
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG13	12	0.67
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG11	15	0.67
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG12	15	0.67
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG13	15	0.67
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD11	4	0.67
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD12	4	0.67
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD13	4	0.67
(1,122)	1:24:A:ILE:H	1:24:A:ILE:HB	4	0.67
(1,93)	1:20:A:PHE:HA	1:22:A:GLU:H	10	0.67
(1,79)	1:19:A:THR:HG21	1:99:A:LEU:HB3	12	0.67
(1,79)	1:19:A:THR:HG22	1:99:A:LEU:HB3	12	0.67
(1,79)	1:19:A:THR:HG23	1:99:A:LEU:HB3	12	0.67
(1,25)	1:15:A:LEU:HD11	1:103:A:ALA:HA	4	0.67
(1,25)	1:15:A:LEU:HD12	1:103:A:ALA:HA	4	0.67
(1,25)	1:15:A:LEU:HD13	1:103:A:ALA:HA	4	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3)	1:12:A:GLU:H	1:12:A:GLU:HB2	15	0.67
(1,2457)	1:143:A:LYS:HG2	1:97:B:GLU:H	10	0.66
(1,2445)	1:100:A:LYS:HE3	1:139:B:GLU:H	5	0.66
(1,2431)	1:97:A:GLU:HG2	1:143:B:LYS:H	8	0.66
(1,2431)	1:97:A:GLU:HG2	1:143:B:LYS:H	15	0.66
(1,1513)	1:47:B:LEU:HD21	1:138:B:ASN:HB2	4	0.66
(1,1513)	1:47:B:LEU:HD22	1:138:B:ASN:HB2	4	0.66
(1,1513)	1:47:B:LEU:HD23	1:138:B:ASN:HB2	4	0.66
(1,1215)	1:15:B:LEU:HD11	1:103:B:ALA:HA	8	0.66
(1,1215)	1:15:B:LEU:HD12	1:103:B:ALA:HA	8	0.66
(1,1215)	1:15:B:LEU:HD13	1:103:B:ALA:HA	8	0.66
(1,1034)	1:142:A:ILE:HD11	1:24:A:ILE:HB	1	0.66
(1,1034)	1:142:A:ILE:HD12	1:24:A:ILE:HB	1	0.66
(1,1034)	1:142:A:ILE:HD13	1:24:A:ILE:HB	1	0.66
(1,970)	1:135:A:THR:HG21	1:18:A:MET:HG3	7	0.66
(1,970)	1:135:A:THR:HG22	1:18:A:MET:HG3	7	0.66
(1,970)	1:135:A:THR:HG23	1:18:A:MET:HG3	7	0.66
(1,696)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	13	0.66
(1,696)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	13	0.66
(1,696)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	13	0.66
(1,694)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	13	0.66
(1,694)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	13	0.66
(1,694)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	13	0.66
(1,622)	1:82:A:SER:H	1:83:A:PHE:HB3	2	0.66
(1,539)	1:75:A:LEU:HD21	1:95:A:LYS:HG2	1	0.66
(1,539)	1:75:A:LEU:HD22	1:95:A:LYS:HG2	1	0.66
(1,539)	1:75:A:LEU:HD23	1:95:A:LYS:HG2	1	0.66
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG11	5	0.66
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG12	5	0.66
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG13	5	0.66
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD11	15	0.66
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD12	15	0.66
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD13	15	0.66
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD11	15	0.66
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD12	15	0.66
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD13	15	0.66
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD11	15	0.66
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD12	15	0.66
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD13	15	0.66
(1,137)	1:24:A:ILE:HD11	1:41:A:THR:HA	9	0.66
(1,137)	1:24:A:ILE:HD12	1:41:A:THR:HA	9	0.66
(1,137)	1:24:A:ILE:HD13	1:41:A:THR:HA	9	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,129)	1:24:A:ILE:HA	1:26:A:TYR:H	9	0.66
(1,122)	1:24:A:ILE:H	1:24:A:ILE:HB	8	0.66
(1,65)	1:18:A:MET:HE1	1:52:A:VAL:HG21	7	0.66
(1,65)	1:18:A:MET:HE1	1:52:A:VAL:HG22	7	0.66
(1,65)	1:18:A:MET:HE1	1:52:A:VAL:HG23	7	0.66
(1,65)	1:18:A:MET:HE2	1:52:A:VAL:HG21	7	0.66
(1,65)	1:18:A:MET:HE2	1:52:A:VAL:HG22	7	0.66
(1,65)	1:18:A:MET:HE2	1:52:A:VAL:HG23	7	0.66
(1,65)	1:18:A:MET:HE3	1:52:A:VAL:HG21	7	0.66
(1,65)	1:18:A:MET:HE3	1:52:A:VAL:HG22	7	0.66
(1,65)	1:18:A:MET:HE3	1:52:A:VAL:HG23	7	0.66
(1,2445)	1:100:A:LYS:HE3	1:139:B:GLU:H	3	0.65
(1,2403)	1:93:A:LYS:HB2	1:147:B:LYS:H	6	0.65
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD11	8	0.65
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD12	8	0.65
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD13	8	0.65
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD11	8	0.65
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD12	8	0.65
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD13	8	0.65
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD11	8	0.65
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD12	8	0.65
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD13	8	0.65
(1,1723)	1:75:B:LEU:HD11	1:95:B:LYS:HE2	6	0.65
(1,1723)	1:75:B:LEU:HD12	1:95:B:LYS:HE2	6	0.65
(1,1723)	1:75:B:LEU:HD13	1:95:B:LYS:HE2	6	0.65
(1,1319)	1:24:B:ILE:HA	1:26:B:TYR:H	3	0.65
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD11	13	0.65
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD12	13	0.65
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD13	13	0.65
(1,967)	1:135:A:THR:HG21	1:17:A:ASP:HB2	5	0.65
(1,967)	1:135:A:THR:HG22	1:17:A:ASP:HB2	5	0.65
(1,967)	1:135:A:THR:HG23	1:17:A:ASP:HB2	5	0.65
(1,945)	1:134:A:LYS:H	1:134:A:LYS:HG3	12	0.65
(1,570)	1:78:A:LEU:H	1:78:A:LEU:HB2	4	0.65
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD11	13	0.65
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD12	13	0.65
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD13	13	0.65
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD11	13	0.65
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD12	13	0.65
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD13	13	0.65
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD11	13	0.65
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD12	13	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD13	13	0.65
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG11	2	0.65
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG12	2	0.65
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG13	2	0.65
(1,348)	1:50:A:GLN:H	1:50:A:GLN:HG3	9	0.65
(1,107)	1:22:A:GLU:H	1:22:A:GLU:HG3	13	0.65
(1,106)	1:22:A:GLU:H	1:22:A:GLU:HG3	13	0.65
(1,2467)	1:147:A:LYS:HB3	1:93:B:LYS:H	8	0.64
(1,2467)	1:147:A:LYS:HB3	1:93:B:LYS:H	13	0.64
(1,2407)	1:93:A:LYS:HG2	1:147:B:LYS:H	9	0.64
(1,1775)	1:78:B:LEU:HD11	1:95:B:LYS:HE3	4	0.64
(1,1775)	1:78:B:LEU:HD12	1:95:B:LYS:HE3	4	0.64
(1,1775)	1:78:B:LEU:HD13	1:95:B:LYS:HE3	4	0.64
(1,1603)	1:59:B:LYS:H	1:59:B:LYS:HB2	5	0.64
(1,1603)	1:59:B:LYS:H	1:59:B:LYS:HB2	8	0.64
(1,1355)	1:25:B:ILE:HG21	1:83:B:PHE:HE1	9	0.64
(1,1355)	1:25:B:ILE:HG22	1:83:B:PHE:HE1	9	0.64
(1,1355)	1:25:B:ILE:HG23	1:83:B:PHE:HE1	9	0.64
(1,1245)	1:18:B:MET:HE1	1:48:B:ALA:HA	12	0.64
(1,1245)	1:18:B:MET:HE2	1:48:B:ALA:HA	12	0.64
(1,1245)	1:18:B:MET:HE3	1:48:B:ALA:HA	12	0.64
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD11	11	0.64
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD12	11	0.64
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD13	11	0.64
(1,700)	1:93:A:LYS:H	1:93:A:LYS:HD3	9	0.64
(1,696)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	6	0.64
(1,696)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	6	0.64
(1,696)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	6	0.64
(1,696)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	8	0.64
(1,696)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	8	0.64
(1,696)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	8	0.64
(1,694)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	6	0.64
(1,694)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	6	0.64
(1,694)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	6	0.64
(1,694)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	8	0.64
(1,694)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	8	0.64
(1,694)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	8	0.64
(1,676)	1:91:A:GLU:H	1:91:A:GLU:HG2	14	0.64
(1,655)	1:88:A:SER:H	1:89:A:GLY:H	15	0.64
(1,570)	1:78:A:LEU:H	1:78:A:LEU:HB2	9	0.64
(1,373)	1:52:A:VAL:HG11	1:69:A:GLY:HA3	4	0.64
(1,373)	1:52:A:VAL:HG12	1:69:A:GLY:HA3	4	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,373)	1:52:A:VAL:HG13	1:69:A:GLY:HA3	4	0.64
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG11	3	0.64
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG12	3	0.64
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG13	3	0.64
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG11	6	0.64
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG12	6	0.64
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG13	6	0.64
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG11	14	0.64
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG12	14	0.64
(1,365)	1:52:A:VAL:HA	1:52:A:VAL:HG13	14	0.64
(1,335)	1:48:A:ALA:HB1	1:18:A:MET:HG2	13	0.64
(1,335)	1:48:A:ALA:HB2	1:18:A:MET:HG2	13	0.64
(1,335)	1:48:A:ALA:HB3	1:18:A:MET:HG2	13	0.64
(1,316)	1:47:A:LEU:HB2	1:48:A:ALA:H	12	0.64
(1,316)	1:47:A:LEU:HB3	1:48:A:ALA:H	12	0.64
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD11	6	0.64
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD12	6	0.64
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD13	6	0.64
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD11	6	0.64
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD12	6	0.64
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD13	6	0.64
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD11	6	0.64
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD12	6	0.64
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD13	6	0.64
(1,165)	1:25:A:ILE:HG21	1:83:A:PHE:HE1	1	0.64
(1,165)	1:25:A:ILE:HG22	1:83:A:PHE:HE1	1	0.64
(1,165)	1:25:A:ILE:HG23	1:83:A:PHE:HE1	1	0.64
(1,122)	1:24:A:ILE:H	1:24:A:ILE:HB	6	0.64
(1,107)	1:22:A:GLU:H	1:22:A:GLU:HG3	12	0.64
(1,106)	1:22:A:GLU:H	1:22:A:GLU:HG3	12	0.64
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD21	11	0.64
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD22	11	0.64
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD23	11	0.64
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD21	11	0.64
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD22	11	0.64
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD23	11	0.64
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD21	11	0.64
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD22	11	0.64
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD23	11	0.64
(1,70)	1:19:A:THR:H	1:19:A:THR:HG21	5	0.64
(1,70)	1:19:A:THR:H	1:19:A:THR:HG22	5	0.64
(1,70)	1:19:A:THR:H	1:19:A:THR:HG23	5	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,70)	1:19:A:THR:H	1:19:A:THR:HG21	14	0.64
(1,70)	1:19:A:THR:H	1:19:A:THR:HG22	14	0.64
(1,70)	1:19:A:THR:H	1:19:A:THR:HG23	14	0.64
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD11	12	0.64
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD12	12	0.64
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD13	12	0.64
(1,2470)	1:93:A:LYS:H	1:147:B:LYS:HB2	11	0.63
(1,2450)	1:137:A:GLU:H	1:104:B:LYS:HE3	6	0.63
(1,2125)	1:131:B:ALA:H	1:132:B:ARG:H	7	0.63
(1,1009)	1:140:A:GLU:H	1:140:A:GLU:HG3	4	0.63
(1,940)	1:133:A:MET:H	1:133:A:MET:HB2	14	0.63
(1,887)	1:123:A:ALA:HB1	1:124:A:ARG:H	5	0.63
(1,887)	1:123:A:ALA:HB2	1:124:A:ARG:H	5	0.63
(1,887)	1:123:A:ALA:HB3	1:124:A:ARG:H	5	0.63
(1,729)	1:96:A:GLU:H	1:96:A:GLU:HG3	9	0.63
(1,697)	1:92:A:LEU:HD21	1:26:A:TYR:HE1	2	0.63
(1,697)	1:92:A:LEU:HD22	1:26:A:TYR:HE1	2	0.63
(1,697)	1:92:A:LEU:HD23	1:26:A:TYR:HE1	2	0.63
(1,691)	1:92:A:LEU:HD11	1:83:A:PHE:HE2	8	0.63
(1,691)	1:92:A:LEU:HD12	1:83:A:PHE:HE2	8	0.63
(1,691)	1:92:A:LEU:HD13	1:83:A:PHE:HE2	8	0.63
(1,666)	1:90:A:LYS:H	1:90:A:LYS:HD2	4	0.63
(1,570)	1:78:A:LEU:H	1:78:A:LEU:HB2	8	0.63
(1,360)	1:51:A:ASN:HB3	1:52:A:VAL:H	4	0.63
(1,316)	1:47:A:LEU:HB2	1:48:A:ALA:H	13	0.63
(1,316)	1:47:A:LEU:HB3	1:48:A:ALA:H	13	0.63
(1,254)	1:40:A:LEU:HD21	1:145:A:LEU:HB3	8	0.63
(1,254)	1:40:A:LEU:HD22	1:145:A:LEU:HB3	8	0.63
(1,254)	1:40:A:LEU:HD23	1:145:A:LEU:HB3	8	0.63
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD21	13	0.63
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD22	13	0.63
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD23	13	0.63
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD21	13	0.63
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD22	13	0.63
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD23	13	0.63
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD21	13	0.63
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD22	13	0.63
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD23	13	0.63
(1,107)	1:22:A:GLU:H	1:22:A:GLU:HG3	1	0.63
(1,107)	1:22:A:GLU:H	1:22:A:GLU:HG3	9	0.63
(1,106)	1:22:A:GLU:H	1:22:A:GLU:HG3	1	0.63
(1,106)	1:22:A:GLU:H	1:22:A:GLU:HG3	9	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,70)	1:19:A:THR:H	1:19:A:THR:HG21	2	0.63
(1,70)	1:19:A:THR:H	1:19:A:THR:HG22	2	0.63
(1,70)	1:19:A:THR:H	1:19:A:THR:HG23	2	0.63
(1,70)	1:19:A:THR:H	1:19:A:THR:HG21	15	0.63
(1,70)	1:19:A:THR:H	1:19:A:THR:HG22	15	0.63
(1,70)	1:19:A:THR:H	1:19:A:THR:HG23	15	0.63
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB1	9	0.63
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB2	9	0.63
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB3	9	0.63
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB1	9	0.63
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB2	9	0.63
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB3	9	0.63
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB1	9	0.63
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB2	9	0.63
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB3	9	0.63
(1,2491)	1:150:A:SER:HB3	1:90:B:LYS:H	8	0.62
(1,2453)	1:143:A:LYS:HD2	1:96:B:GLU:H	7	0.62
(1,2437)	1:100:A:LYS:HE3	1:140:B:GLU:H	8	0.62
(1,2127)	1:132:B:ARG:H	1:133:B:MET:H	5	0.62
(1,1887)	1:92:B:LEU:HD21	1:26:B:TYR:HE1	4	0.62
(1,1887)	1:92:B:LEU:HD22	1:26:B:TYR:HE1	4	0.62
(1,1887)	1:92:B:LEU:HD23	1:26:B:TYR:HE1	4	0.62
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD11	7	0.62
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD12	7	0.62
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD13	7	0.62
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD11	7	0.62
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD12	7	0.62
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD13	7	0.62
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD11	7	0.62
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD12	7	0.62
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD13	7	0.62
(1,1436)	1:40:B:LEU:HD11	1:28:B:CYS:HB2	8	0.62
(1,1436)	1:40:B:LEU:HD12	1:28:B:CYS:HB2	8	0.62
(1,1436)	1:40:B:LEU:HD13	1:28:B:CYS:HB2	8	0.62
(1,1324)	1:24:B:ILE:HD11	1:40:B:LEU:HG	4	0.62
(1,1324)	1:24:B:ILE:HD12	1:40:B:LEU:HG	4	0.62
(1,1324)	1:24:B:ILE:HD13	1:40:B:LEU:HG	4	0.62
(1,1251)	1:18:B:MET:HE1	1:51:B:ASN:HB2	15	0.62
(1,1251)	1:18:B:MET:HE2	1:51:B:ASN:HB2	15	0.62
(1,1251)	1:18:B:MET:HE3	1:51:B:ASN:HB2	15	0.62
(1,931)	1:130:A:LEU:H	1:130:A:LEU:HG	9	0.62
(1,839)	1:114:A:LEU:H	1:114:A:LEU:HG	14	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD11	9	0.62
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD12	9	0.62
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD13	9	0.62
(1,539)	1:75:A:LEU:HD21	1:95:A:LYS:HG2	9	0.62
(1,539)	1:75:A:LEU:HD22	1:95:A:LYS:HG2	9	0.62
(1,539)	1:75:A:LEU:HD23	1:95:A:LYS:HG2	9	0.62
(1,334)	1:48:A:ALA:HB1	1:18:A:MET:HG3	7	0.62
(1,334)	1:48:A:ALA:HB2	1:18:A:MET:HG3	7	0.62
(1,334)	1:48:A:ALA:HB3	1:18:A:MET:HG3	7	0.62
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG21	11	0.62
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG22	11	0.62
(1,303)	1:46:A:ILE:H	1:46:A:ILE:HG23	11	0.62
(1,250)	1:40:A:LEU:HD11	1:145:A:LEU:HB3	15	0.62
(1,250)	1:40:A:LEU:HD12	1:145:A:LEU:HB3	15	0.62
(1,250)	1:40:A:LEU:HD13	1:145:A:LEU:HB3	15	0.62
(1,168)	1:26:A:TYR:H	1:26:A:TYR:HD1	1	0.62
(1,164)	1:25:A:ILE:HG21	1:83:A:PHE:HE2	12	0.62
(1,164)	1:25:A:ILE:HG22	1:83:A:PHE:HE2	12	0.62
(1,164)	1:25:A:ILE:HG23	1:83:A:PHE:HE2	12	0.62
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD11	8	0.62
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD12	8	0.62
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD13	8	0.62
(1,1718)	1:75:B:LEU:HD11	1:95:B:LYS:HG3	3	0.61
(1,1718)	1:75:B:LEU:HD12	1:95:B:LYS:HG3	3	0.61
(1,1718)	1:75:B:LEU:HD13	1:95:B:LYS:HG3	3	0.61
(1,1193)	1:12:B:GLU:H	1:12:B:GLU:HB2	2	0.61
(1,925)	1:129:A:GLU:H	1:129:A:GLU:HB3	7	0.61
(1,837)	1:114:A:LEU:H	1:114:A:LEU:HB3	7	0.61
(1,739)	1:97:A:GLU:H	1:97:A:GLU:HG2	6	0.61
(1,730)	1:96:A:GLU:H	1:96:A:GLU:HG2	6	0.61
(1,730)	1:96:A:GLU:H	1:96:A:GLU:HG2	8	0.61
(1,417)	1:59:A:LYS:HG2	1:60:A:ALA:H	13	0.61
(1,316)	1:47:A:LEU:HB2	1:48:A:ALA:H	10	0.61
(1,316)	1:47:A:LEU:HB3	1:48:A:ALA:H	10	0.61
(1,250)	1:40:A:LEU:HD11	1:145:A:LEU:HB3	14	0.61
(1,250)	1:40:A:LEU:HD12	1:145:A:LEU:HB3	14	0.61
(1,250)	1:40:A:LEU:HD13	1:145:A:LEU:HB3	14	0.61
(1,244)	1:40:A:LEU:HD21	1:24:A:ILE:HB	9	0.61
(1,244)	1:40:A:LEU:HD22	1:24:A:ILE:HB	9	0.61
(1,244)	1:40:A:LEU:HD23	1:24:A:ILE:HB	9	0.61
(1,107)	1:22:A:GLU:H	1:22:A:GLU:HG3	11	0.61
(1,106)	1:22:A:GLU:H	1:22:A:GLU:HG3	11	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,93)	1:20:A:PHE:HA	1:22:A:GLU:H	7	0.61
(1,3)	1:12:A:GLU:H	1:12:A:GLU:HB2	1	0.61
(1,2488)	1:94:A:ALA:HB1	1:147:B:LYS:HE3	6	0.6
(1,2488)	1:94:A:ALA:HB2	1:147:B:LYS:HE3	6	0.6
(1,2488)	1:94:A:ALA:HB3	1:147:B:LYS:HE3	6	0.6
(1,2472)	1:93:A:LYS:H	1:147:B:LYS:HG3	12	0.6
(1,2447)	1:100:A:LYS:HE2	1:139:B:GLU:H	10	0.6
(1,2432)	1:143:A:LYS:H	1:97:B:GLU:HG2	5	0.6
(1,2431)	1:97:A:GLU:HG2	1:143:B:LYS:H	3	0.6
(1,1354)	1:25:B:ILE:HG21	1:83:B:PHE:HE2	9	0.6
(1,1354)	1:25:B:ILE:HG22	1:83:B:PHE:HE2	9	0.6
(1,1354)	1:25:B:ILE:HG23	1:83:B:PHE:HE2	9	0.6
(1,925)	1:129:A:GLU:H	1:129:A:GLU:HB3	15	0.6
(1,887)	1:123:A:ALA:HB1	1:124:A:ARG:H	9	0.6
(1,887)	1:123:A:ALA:HB2	1:124:A:ARG:H	9	0.6
(1,887)	1:123:A:ALA:HB3	1:124:A:ARG:H	9	0.6
(1,887)	1:123:A:ALA:HB1	1:124:A:ARG:H	10	0.6
(1,887)	1:123:A:ALA:HB2	1:124:A:ARG:H	10	0.6
(1,887)	1:123:A:ALA:HB3	1:124:A:ARG:H	10	0.6
(1,837)	1:114:A:LEU:H	1:114:A:LEU:HB3	2	0.6
(1,676)	1:91:A:GLU:H	1:91:A:GLU:HG2	5	0.6
(1,570)	1:78:A:LEU:H	1:78:A:LEU:HB2	3	0.6
(1,413)	1:59:A:LYS:H	1:59:A:LYS:HB2	2	0.6
(1,413)	1:59:A:LYS:H	1:59:A:LYS:HB2	10	0.6
(1,332)	1:48:A:ALA:HB1	1:18:A:MET:HB3	9	0.6
(1,332)	1:48:A:ALA:HB2	1:18:A:MET:HB3	9	0.6
(1,332)	1:48:A:ALA:HB3	1:18:A:MET:HB3	9	0.6
(1,251)	1:40:A:LEU:HD11	1:145:A:LEU:HB2	2	0.6
(1,251)	1:40:A:LEU:HD12	1:145:A:LEU:HB2	2	0.6
(1,251)	1:40:A:LEU:HD13	1:145:A:LEU:HB2	2	0.6
(1,200)	1:33:A:LEU:HD11	1:152:A:LEU:HD11	2	0.6
(1,200)	1:33:A:LEU:HD11	1:152:A:LEU:HD12	2	0.6
(1,200)	1:33:A:LEU:HD11	1:152:A:LEU:HD13	2	0.6
(1,200)	1:33:A:LEU:HD12	1:152:A:LEU:HD11	2	0.6
(1,200)	1:33:A:LEU:HD12	1:152:A:LEU:HD12	2	0.6
(1,200)	1:33:A:LEU:HD12	1:152:A:LEU:HD13	2	0.6
(1,200)	1:33:A:LEU:HD13	1:152:A:LEU:HD11	2	0.6
(1,200)	1:33:A:LEU:HD13	1:152:A:LEU:HD12	2	0.6
(1,200)	1:33:A:LEU:HD13	1:152:A:LEU:HD13	2	0.6
(1,141)	1:24:A:ILE:HD11	1:146:A:GLU:HG3	5	0.6
(1,141)	1:24:A:ILE:HD12	1:146:A:GLU:HG3	5	0.6
(1,141)	1:24:A:ILE:HD13	1:146:A:GLU:HG3	5	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD21	12	0.6
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD22	12	0.6
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD23	12	0.6
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD21	12	0.6
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD22	12	0.6
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD23	12	0.6
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD21	12	0.6
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD22	12	0.6
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD23	12	0.6
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG21	8	0.6
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG22	8	0.6
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG23	8	0.6
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG21	8	0.6
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG22	8	0.6
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG23	8	0.6
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG21	8	0.6
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG22	8	0.6
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG23	8	0.6
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB1	11	0.6
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB2	11	0.6
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB3	11	0.6
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB1	11	0.6
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB2	11	0.6
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB3	11	0.6
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB1	11	0.6
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB2	11	0.6
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB3	11	0.6
(1,2453)	1:143:A:LYS:HD2	1:96:B:GLU:H	14	0.59
(1,2416)	1:147:A:LYS:H	1:93:B:LYS:HE2	2	0.59
(1,2413)	1:93:A:LYS:HE3	1:147:B:LYS:H	4	0.59
(1,2157)	1:135:B:THR:HG21	1:17:B:ASP:HB2	4	0.59
(1,2157)	1:135:B:THR:HG22	1:17:B:ASP:HB2	4	0.59
(1,2157)	1:135:B:THR:HG23	1:17:B:ASP:HB2	4	0.59
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD11	15	0.59
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD12	15	0.59
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD13	15	0.59
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD11	15	0.59
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD12	15	0.59
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD13	15	0.59
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD11	15	0.59
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD12	15	0.59
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD13	15	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1603)	1:59:B:LYS:H	1:59:B:LYS:HB2	2	0.59
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG11	6	0.59
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG12	6	0.59
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG13	6	0.59
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG11	9	0.59
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG12	9	0.59
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG13	9	0.59
(1,1355)	1:25:B:ILE:HG21	1:83:B:PHE:HE1	7	0.59
(1,1355)	1:25:B:ILE:HG22	1:83:B:PHE:HE1	7	0.59
(1,1355)	1:25:B:ILE:HG23	1:83:B:PHE:HE1	7	0.59
(1,1353)	1:25:B:ILE:HG21	1:83:B:PHE:HZ	15	0.59
(1,1353)	1:25:B:ILE:HG22	1:83:B:PHE:HZ	15	0.59
(1,1353)	1:25:B:ILE:HG23	1:83:B:PHE:HZ	15	0.59
(1,1319)	1:24:B:ILE:HA	1:26:B:TYR:H	2	0.59
(1,1138)	1:152:A:LEU:H	1:152:A:LEU:HD21	3	0.59
(1,1138)	1:152:A:LEU:H	1:152:A:LEU:HD22	3	0.59
(1,1138)	1:152:A:LEU:H	1:152:A:LEU:HD23	3	0.59
(1,1136)	1:152:A:LEU:H	1:152:A:LEU:HG	12	0.59
(1,1116)	1:149:A:LEU:HD11	1:36:A:ILE:HG21	13	0.59
(1,1116)	1:149:A:LEU:HD11	1:36:A:ILE:HG22	13	0.59
(1,1116)	1:149:A:LEU:HD11	1:36:A:ILE:HG23	13	0.59
(1,1116)	1:149:A:LEU:HD12	1:36:A:ILE:HG21	13	0.59
(1,1116)	1:149:A:LEU:HD12	1:36:A:ILE:HG22	13	0.59
(1,1116)	1:149:A:LEU:HD12	1:36:A:ILE:HG23	13	0.59
(1,1116)	1:149:A:LEU:HD13	1:36:A:ILE:HG21	13	0.59
(1,1116)	1:149:A:LEU:HD13	1:36:A:ILE:HG22	13	0.59
(1,1116)	1:149:A:LEU:HD13	1:36:A:ILE:HG23	13	0.59
(1,1096)	1:148:A:GLU:H	1:148:A:GLU:HG3	11	0.59
(1,1094)	1:148:A:GLU:H	1:148:A:GLU:HB3	6	0.59
(1,1070)	1:145:A:LEU:HD21	1:40:A:LEU:HA	9	0.59
(1,1070)	1:145:A:LEU:HD22	1:40:A:LEU:HA	9	0.59
(1,1070)	1:145:A:LEU:HD23	1:40:A:LEU:HA	9	0.59
(1,1031)	1:142:A:ILE:HD11	1:145:A:LEU:HD11	5	0.59
(1,1031)	1:142:A:ILE:HD11	1:145:A:LEU:HD12	5	0.59
(1,1031)	1:142:A:ILE:HD11	1:145:A:LEU:HD13	5	0.59
(1,1031)	1:142:A:ILE:HD12	1:145:A:LEU:HD11	5	0.59
(1,1031)	1:142:A:ILE:HD12	1:145:A:LEU:HD12	5	0.59
(1,1031)	1:142:A:ILE:HD12	1:145:A:LEU:HD13	5	0.59
(1,1031)	1:142:A:ILE:HD13	1:145:A:LEU:HD11	5	0.59
(1,1031)	1:142:A:ILE:HD13	1:145:A:LEU:HD12	5	0.59
(1,1031)	1:142:A:ILE:HD13	1:145:A:LEU:HD13	5	0.59
(1,945)	1:134:A:LYS:H	1:134:A:LYS:HG3	11	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,940)	1:133:A:MET:H	1:133:A:MET:HB2	13	0.59
(1,891)	1:124:A:ARG:H	1:124:A:ARG:HD3	8	0.59
(1,891)	1:124:A:ARG:H	1:124:A:ARG:HD3	13	0.59
(1,840)	1:114:A:LEU:H	1:115:A:GLU:H	14	0.59
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD11	12	0.59
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD12	12	0.59
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD13	12	0.59
(1,813)	1:105:A:MET:H	1:105:A:MET:HG2	15	0.59
(1,810)	1:105:A:MET:H	1:105:A:MET:HE1	14	0.59
(1,810)	1:105:A:MET:H	1:105:A:MET:HE2	14	0.59
(1,810)	1:105:A:MET:H	1:105:A:MET:HE3	14	0.59
(1,676)	1:91:A:GLU:H	1:91:A:GLU:HG2	2	0.59
(1,636)	1:84:A:ILE:HG21	1:85:A:TYR:H	1	0.59
(1,636)	1:84:A:ILE:HG22	1:85:A:TYR:H	1	0.59
(1,636)	1:84:A:ILE:HG23	1:85:A:TYR:H	1	0.59
(1,579)	1:78:A:LEU:HD11	1:95:A:LYS:HB3	3	0.59
(1,579)	1:78:A:LEU:HD12	1:95:A:LYS:HB3	3	0.59
(1,579)	1:78:A:LEU:HD13	1:95:A:LYS:HB3	3	0.59
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD21	11	0.59
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD22	11	0.59
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD23	11	0.59
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD21	11	0.59
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD22	11	0.59
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD23	11	0.59
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD21	11	0.59
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD22	11	0.59
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD23	11	0.59
(1,264)	1:41:A:THR:HG21	1:25:A:ILE:HA	4	0.59
(1,264)	1:41:A:THR:HG22	1:25:A:ILE:HA	4	0.59
(1,264)	1:41:A:THR:HG23	1:25:A:ILE:HA	4	0.59
(1,247)	1:40:A:LEU:HD21	1:28:A:CYS:HB2	9	0.59
(1,247)	1:40:A:LEU:HD22	1:28:A:CYS:HB2	9	0.59
(1,247)	1:40:A:LEU:HD23	1:28:A:CYS:HB2	9	0.59
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD21	5	0.59
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD22	5	0.59
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD23	5	0.59
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD21	5	0.59
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD22	5	0.59
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD23	5	0.59
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD21	5	0.59
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD22	5	0.59
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD23	5	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,70)	1:19:A:THR:H	1:19:A:THR:HG21	6	0.59
(1,70)	1:19:A:THR:H	1:19:A:THR:HG22	6	0.59
(1,70)	1:19:A:THR:H	1:19:A:THR:HG23	6	0.59
(1,70)	1:19:A:THR:H	1:19:A:THR:HG21	9	0.59
(1,70)	1:19:A:THR:H	1:19:A:THR:HG22	9	0.59
(1,70)	1:19:A:THR:H	1:19:A:THR:HG23	9	0.59
(1,70)	1:19:A:THR:H	1:19:A:THR:HG21	12	0.59
(1,70)	1:19:A:THR:H	1:19:A:THR:HG22	12	0.59
(1,70)	1:19:A:THR:H	1:19:A:THR:HG23	12	0.59
(1,60)	1:18:A:MET:HE1	1:51:A:ASN:HB3	15	0.59
(1,60)	1:18:A:MET:HE2	1:51:A:ASN:HB3	15	0.59
(1,60)	1:18:A:MET:HE3	1:51:A:ASN:HB3	15	0.59
(1,3)	1:12:A:GLU:H	1:12:A:GLU:HB2	4	0.59
(1,2480)	1:93:A:LYS:H	1:147:B:LYS:HE3	5	0.58
(1,2468)	1:93:A:LYS:H	1:147:B:LYS:HB3	3	0.58
(1,2433)	1:97:A:GLU:HG3	1:144:B:ASN:H	7	0.58
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG11	4	0.58
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG12	4	0.58
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG13	4	0.58
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG11	8	0.58
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG12	8	0.58
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG13	8	0.58
(1,1147)	1:153:A:GLU:H	1:153:A:GLU:HB3	9	0.58
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD11	8	0.58
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD12	8	0.58
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD13	8	0.58
(1,1094)	1:148:A:GLU:H	1:148:A:GLU:HB3	4	0.58
(1,1041)	1:143:A:LYS:H	1:143:A:LYS:HG3	11	0.58
(1,1024)	1:142:A:ILE:H	1:142:A:ILE:HB	15	0.58
(1,1003)	1:139:A:GLU:H	1:142:A:ILE:H	12	0.58
(1,999)	1:139:A:GLU:H	1:139:A:GLU:HG3	8	0.58
(1,940)	1:133:A:MET:H	1:133:A:MET:HB2	2	0.58
(1,939)	1:133:A:MET:H	1:133:A:MET:HG3	8	0.58
(1,758)	1:99:A:LEU:HD11	1:75:A:LEU:HB3	12	0.58
(1,758)	1:99:A:LEU:HD12	1:75:A:LEU:HB3	12	0.58
(1,758)	1:99:A:LEU:HD13	1:75:A:LEU:HB3	12	0.58
(1,738)	1:97:A:GLU:H	1:97:A:GLU:HB3	11	0.58
(1,622)	1:82:A:SER:H	1:83:A:PHE:HB3	12	0.58
(1,463)	1:68:A:VAL:HG11	1:102:A:LYS:HE3	14	0.58
(1,463)	1:68:A:VAL:HG12	1:102:A:LYS:HE3	14	0.58
(1,463)	1:68:A:VAL:HG13	1:102:A:LYS:HE3	14	0.58
(1,431)	1:64:A:PHE:H	1:64:A:PHE:HD1	4	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,348)	1:50:A:GLN:H	1:50:A:GLN:HG3	13	0.58
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD11	5	0.58
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD12	5	0.58
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD13	5	0.58
(1,168)	1:26:A:TYR:H	1:26:A:TYR:HD1	2	0.58
(1,137)	1:24:A:ILE:HD11	1:41:A:THR:HA	12	0.58
(1,137)	1:24:A:ILE:HD12	1:41:A:THR:HA	12	0.58
(1,137)	1:24:A:ILE:HD13	1:41:A:THR:HA	12	0.58
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG12	6	0.58
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG13	6	0.58
(1,70)	1:19:A:THR:H	1:19:A:THR:HG21	3	0.58
(1,70)	1:19:A:THR:H	1:19:A:THR:HG22	3	0.58
(1,70)	1:19:A:THR:H	1:19:A:THR:HG23	3	0.58
(1,2467)	1:147:A:LYS:HB3	1:93:B:LYS:H	9	0.57
(1,2454)	1:96:A:GLU:H	1:143:B:LYS:HD2	13	0.57
(1,2437)	1:100:A:LYS:HE3	1:140:B:GLU:H	9	0.57
(1,2419)	1:93:A:LYS:HE2	1:146:B:GLU:H	15	0.57
(1,2384)	1:151:A:ASP:H	1:90:B:LYS:HE2	11	0.57
(1,1147)	1:153:A:GLU:H	1:153:A:GLU:HB3	10	0.57
(1,999)	1:139:A:GLU:H	1:139:A:GLU:HG3	9	0.57
(1,976)	1:136:A:LEU:H	1:136:A:LEU:HG	10	0.57
(1,937)	1:132:A:ARG:H	1:133:A:MET:H	9	0.57
(1,898)	1:125:A:ARG:H	1:125:A:ARG:HB3	5	0.57
(1,762)	1:99:A:LEU:HD21	1:19:A:THR:HB	6	0.57
(1,762)	1:99:A:LEU:HD22	1:19:A:THR:HB	6	0.57
(1,762)	1:99:A:LEU:HD23	1:19:A:THR:HB	6	0.57
(1,636)	1:84:A:ILE:HG21	1:85:A:TYR:H	10	0.57
(1,636)	1:84:A:ILE:HG22	1:85:A:TYR:H	10	0.57
(1,636)	1:84:A:ILE:HG23	1:85:A:TYR:H	10	0.57
(1,541)	1:75:A:LEU:HD21	1:95:A:LYS:HE3	8	0.57
(1,541)	1:75:A:LEU:HD22	1:95:A:LYS:HE3	8	0.57
(1,541)	1:75:A:LEU:HD23	1:95:A:LYS:HE3	8	0.57
(1,469)	1:69:A:GLY:HA2	1:72:A:ALA:H	9	0.57
(1,421)	1:60:A:ALA:HB1	1:61:A:GLN:H	14	0.57
(1,421)	1:60:A:ALA:HB2	1:61:A:GLN:H	14	0.57
(1,421)	1:60:A:ALA:HB3	1:61:A:GLN:H	14	0.57
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD11	6	0.57
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD12	6	0.57
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD13	6	0.57
(1,323)	1:47:A:LEU:HD21	1:138:A:ASN:HB2	13	0.57
(1,323)	1:47:A:LEU:HD22	1:138:A:ASN:HB2	13	0.57
(1,323)	1:47:A:LEU:HD23	1:138:A:ASN:HB2	13	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,316)	1:47:A:LEU:HB2	1:48:A:ALA:H	14	0.57
(1,316)	1:47:A:LEU:HB3	1:48:A:ALA:H	14	0.57
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD11	8	0.57
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD12	8	0.57
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD13	8	0.57
(1,132)	1:24:A:ILE:HD11	1:40:A:LEU:HB3	12	0.57
(1,132)	1:24:A:ILE:HD12	1:40:A:LEU:HB3	12	0.57
(1,132)	1:24:A:ILE:HD13	1:40:A:LEU:HB3	12	0.57
(1,63)	1:18:A:MET:HE1	1:52:A:VAL:HA	12	0.57
(1,63)	1:18:A:MET:HE2	1:52:A:VAL:HA	12	0.57
(1,63)	1:18:A:MET:HE3	1:52:A:VAL:HA	12	0.57
(1,2439)	1:100:A:LYS:HE2	1:140:B:GLU:H	13	0.56
(1,2438)	1:140:A:GLU:H	1:100:B:LYS:HE3	4	0.56
(1,2396)	1:150:A:SER:H	1:90:B:LYS:HD2	8	0.56
(1,2395)	1:90:A:LYS:HD2	1:150:B:SER:H	6	0.56
(1,1730)	1:75:B:LEU:HD21	1:95:B:LYS:HD3	11	0.56
(1,1730)	1:75:B:LEU:HD22	1:95:B:LYS:HD3	11	0.56
(1,1730)	1:75:B:LEU:HD23	1:95:B:LYS:HD3	11	0.56
(1,1722)	1:75:B:LEU:HD11	1:95:B:LYS:HE3	15	0.56
(1,1722)	1:75:B:LEU:HD12	1:95:B:LYS:HE3	15	0.56
(1,1722)	1:75:B:LEU:HD13	1:95:B:LYS:HE3	15	0.56
(1,1437)	1:40:B:LEU:HD21	1:28:B:CYS:HB2	3	0.56
(1,1437)	1:40:B:LEU:HD22	1:28:B:CYS:HB2	3	0.56
(1,1437)	1:40:B:LEU:HD23	1:28:B:CYS:HB2	3	0.56
(1,1147)	1:153:A:GLU:H	1:153:A:GLU:HB3	1	0.56
(1,1070)	1:145:A:LEU:HD21	1:40:A:LEU:HA	13	0.56
(1,1070)	1:145:A:LEU:HD22	1:40:A:LEU:HA	13	0.56
(1,1070)	1:145:A:LEU:HD23	1:40:A:LEU:HA	13	0.56
(1,1003)	1:139:A:GLU:H	1:142:A:ILE:H	1	0.56
(1,935)	1:131:A:ALA:H	1:132:A:ARG:H	3	0.56
(1,858)	1:119:A:GLU:H	1:119:A:GLU:HG3	1	0.56
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD11	10	0.56
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD12	10	0.56
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD13	10	0.56
(1,636)	1:84:A:ILE:HG21	1:85:A:TYR:H	4	0.56
(1,636)	1:84:A:ILE:HG22	1:85:A:TYR:H	4	0.56
(1,636)	1:84:A:ILE:HG23	1:85:A:TYR:H	4	0.56
(1,636)	1:84:A:ILE:HG21	1:85:A:TYR:H	8	0.56
(1,636)	1:84:A:ILE:HG22	1:85:A:TYR:H	8	0.56
(1,636)	1:84:A:ILE:HG23	1:85:A:TYR:H	8	0.56
(1,636)	1:84:A:ILE:HG21	1:85:A:TYR:H	9	0.56
(1,636)	1:84:A:ILE:HG22	1:85:A:TYR:H	9	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,636)	1:84:A:ILE:HG23	1:85:A:TYR:H	9	0.56
(1,636)	1:84:A:ILE:HG21	1:85:A:TYR:H	11	0.56
(1,636)	1:84:A:ILE:HG22	1:85:A:TYR:H	11	0.56
(1,636)	1:84:A:ILE:HG23	1:85:A:TYR:H	11	0.56
(1,636)	1:84:A:ILE:HG21	1:85:A:TYR:H	12	0.56
(1,636)	1:84:A:ILE:HG22	1:85:A:TYR:H	12	0.56
(1,636)	1:84:A:ILE:HG23	1:85:A:TYR:H	12	0.56
(1,636)	1:84:A:ILE:HG21	1:85:A:TYR:H	13	0.56
(1,636)	1:84:A:ILE:HG22	1:85:A:TYR:H	13	0.56
(1,636)	1:84:A:ILE:HG23	1:85:A:TYR:H	13	0.56
(1,316)	1:47:A:LEU:HB2	1:48:A:ALA:H	7	0.56
(1,316)	1:47:A:LEU:HB3	1:48:A:ALA:H	7	0.56
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD11	3	0.56
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD12	3	0.56
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD13	3	0.56
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG11	10	0.56
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG12	10	0.56
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG13	10	0.56
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG11	10	0.56
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG12	10	0.56
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG13	10	0.56
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG11	10	0.56
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG12	10	0.56
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG13	10	0.56
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG12	8	0.56
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG13	8	0.56
(1,81)	1:19:A:THR:HG21	1:99:A:LEU:HG	6	0.56
(1,81)	1:19:A:THR:HG22	1:99:A:LEU:HG	6	0.56
(1,81)	1:19:A:THR:HG23	1:99:A:LEU:HG	6	0.56
(1,2439)	1:100:A:LYS:HE2	1:140:B:GLU:H	11	0.55
(1,2416)	1:147:A:LYS:H	1:93:B:LYS:HE2	14	0.55
(1,1654)	1:68:B:VAL:HG11	1:102:B:LYS:HE2	11	0.55
(1,1654)	1:68:B:VAL:HG12	1:102:B:LYS:HE2	11	0.55
(1,1654)	1:68:B:VAL:HG13	1:102:B:LYS:HE2	11	0.55
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG21	7	0.55
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG22	7	0.55
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG23	7	0.55
(1,1436)	1:40:B:LEU:HD11	1:28:B:CYS:HB2	6	0.55
(1,1436)	1:40:B:LEU:HD12	1:28:B:CYS:HB2	6	0.55
(1,1436)	1:40:B:LEU:HD13	1:28:B:CYS:HB2	6	0.55
(1,1354)	1:25:B:ILE:HG21	1:83:B:PHE:HE2	5	0.55
(1,1354)	1:25:B:ILE:HG22	1:83:B:PHE:HE2	5	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1354)	1:25:B:ILE:HG23	1:83:B:PHE:HE2	5	0.55
(1,1193)	1:12:B:GLU:H	1:12:B:GLU:HB2	14	0.55
(1,1116)	1:149:A:LEU:HD11	1:36:A:ILE:HG21	4	0.55
(1,1116)	1:149:A:LEU:HD11	1:36:A:ILE:HG22	4	0.55
(1,1116)	1:149:A:LEU:HD11	1:36:A:ILE:HG23	4	0.55
(1,1116)	1:149:A:LEU:HD12	1:36:A:ILE:HG21	4	0.55
(1,1116)	1:149:A:LEU:HD12	1:36:A:ILE:HG22	4	0.55
(1,1116)	1:149:A:LEU:HD12	1:36:A:ILE:HG23	4	0.55
(1,1116)	1:149:A:LEU:HD13	1:36:A:ILE:HG21	4	0.55
(1,1116)	1:149:A:LEU:HD13	1:36:A:ILE:HG22	4	0.55
(1,1116)	1:149:A:LEU:HD13	1:36:A:ILE:HG23	4	0.55
(1,1009)	1:140:A:GLU:H	1:140:A:GLU:HG3	10	0.55
(1,858)	1:119:A:GLU:H	1:119:A:GLU:HG3	10	0.55
(1,584)	1:78:A:LEU:HD11	1:95:A:LYS:HD2	5	0.55
(1,584)	1:78:A:LEU:HD12	1:95:A:LYS:HD2	5	0.55
(1,584)	1:78:A:LEU:HD13	1:95:A:LYS:HD2	5	0.55
(1,417)	1:59:A:LYS:HG2	1:60:A:ALA:H	6	0.55
(1,413)	1:59:A:LYS:H	1:59:A:LYS:HB2	9	0.55
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD11	1	0.55
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD12	1	0.55
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD13	1	0.55
(1,179)	1:27:A:HIS:HB2	1:28:A:CYS:H	9	0.55
(1,168)	1:26:A:TYR:H	1:26:A:TYR:HD1	13	0.55
(1,93)	1:20:A:PHE:HA	1:22:A:GLU:H	4	0.55
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD21	12	0.55
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD22	12	0.55
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD23	12	0.55
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD21	12	0.55
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD22	12	0.55
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD23	12	0.55
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD21	12	0.55
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD22	12	0.55
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD23	12	0.55
(1,70)	1:19:A:THR:H	1:19:A:THR:HG21	11	0.55
(1,70)	1:19:A:THR:H	1:19:A:THR:HG22	11	0.55
(1,70)	1:19:A:THR:H	1:19:A:THR:HG23	11	0.55
(1,2481)	1:147:A:LYS:HE2	1:93:B:LYS:H	5	0.54
(1,2472)	1:93:A:LYS:H	1:147:B:LYS:HG3	6	0.54
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG21	2	0.54
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG22	2	0.54
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG23	2	0.54
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG21	3	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG22	3	0.54
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG23	3	0.54
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG21	4	0.54
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG22	4	0.54
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG23	4	0.54
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG21	7	0.54
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG22	7	0.54
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG23	7	0.54
(1,1603)	1:59:B:LYS:H	1:59:B:LYS:HB2	12	0.54
(1,1563)	1:52:B:VAL:HG11	1:69:B:GLY:HA3	10	0.54
(1,1563)	1:52:B:VAL:HG12	1:69:B:GLY:HA3	10	0.54
(1,1563)	1:52:B:VAL:HG13	1:69:B:GLY:HA3	10	0.54
(1,1513)	1:47:B:LEU:HD21	1:138:B:ASN:HB2	6	0.54
(1,1513)	1:47:B:LEU:HD22	1:138:B:ASN:HB2	6	0.54
(1,1513)	1:47:B:LEU:HD23	1:138:B:ASN:HB2	6	0.54
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG21	12	0.54
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG22	12	0.54
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG23	12	0.54
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB1	11	0.54
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB2	11	0.54
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB3	11	0.54
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB1	11	0.54
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB2	11	0.54
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB3	11	0.54
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB1	11	0.54
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB2	11	0.54
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB3	11	0.54
(1,1174)	1:156:A:LEU:H	1:156:A:LEU:HG	10	0.54
(1,1084)	1:147:A:LYS:H	1:147:A:LYS:HG2	14	0.54
(1,1036)	1:142:A:ILE:HD11	1:44:A:ALA:HA	4	0.54
(1,1036)	1:142:A:ILE:HD12	1:44:A:ALA:HA	4	0.54
(1,1036)	1:142:A:ILE:HD13	1:44:A:ALA:HA	4	0.54
(1,1017)	1:141:A:GLU:H	1:141:A:GLU:HG3	10	0.54
(1,653)	1:88:A:SER:H	1:88:A:SER:HB3	6	0.54
(1,653)	1:88:A:SER:H	1:88:A:SER:HB3	9	0.54
(1,653)	1:88:A:SER:H	1:88:A:SER:HB3	12	0.54
(1,653)	1:88:A:SER:H	1:88:A:SER:HB3	13	0.54
(1,650)	1:87:A:THR:HG21	1:88:A:SER:H	1	0.54
(1,650)	1:87:A:THR:HG22	1:88:A:SER:H	1	0.54
(1,650)	1:87:A:THR:HG23	1:88:A:SER:H	1	0.54
(1,636)	1:84:A:ILE:HG21	1:85:A:TYR:H	6	0.54
(1,636)	1:84:A:ILE:HG22	1:85:A:TYR:H	6	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,636)	1:84:A:ILE:HG23	1:85:A:TYR:H	6	0.54
(1,469)	1:69:A:GLY:HA2	1:72:A:ALA:H	5	0.54
(1,431)	1:64:A:PHE:H	1:64:A:PHE:HD1	13	0.54
(1,316)	1:47:A:LEU:HB2	1:48:A:ALA:H	5	0.54
(1,316)	1:47:A:LEU:HB3	1:48:A:ALA:H	5	0.54
(1,245)	1:40:A:LEU:HD11	1:28:A:CYS:HB3	8	0.54
(1,245)	1:40:A:LEU:HD12	1:28:A:CYS:HB3	8	0.54
(1,245)	1:40:A:LEU:HD13	1:28:A:CYS:HB3	8	0.54
(1,141)	1:24:A:ILE:HD11	1:146:A:GLU:HG3	12	0.54
(1,141)	1:24:A:ILE:HD12	1:146:A:GLU:HG3	12	0.54
(1,141)	1:24:A:ILE:HD13	1:146:A:GLU:HG3	12	0.54
(1,64)	1:18:A:MET:HE1	1:52:A:VAL:HB	4	0.54
(1,64)	1:18:A:MET:HE2	1:52:A:VAL:HB	4	0.54
(1,64)	1:18:A:MET:HE3	1:52:A:VAL:HB	4	0.54
(1,2477)	1:147:A:LYS:HD2	1:93:B:LYS:H	4	0.53
(1,2470)	1:93:A:LYS:H	1:147:B:LYS:HB2	15	0.53
(1,2461)	1:143:A:LYS:HD2	1:97:B:GLU:H	2	0.53
(1,2457)	1:143:A:LYS:HG2	1:97:B:GLU:H	7	0.53
(1,2456)	1:97:A:GLU:H	1:143:B:LYS:HG3	13	0.53
(1,2447)	1:100:A:LYS:HE2	1:139:B:GLU:H	9	0.53
(1,2445)	1:100:A:LYS:HE3	1:139:B:GLU:H	8	0.53
(1,2431)	1:97:A:GLU:HG2	1:143:B:LYS:H	2	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG21	2	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG22	2	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG23	2	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG21	9	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG22	9	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG23	9	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG21	11	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG22	11	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG23	11	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG21	13	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG22	13	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG23	13	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG21	14	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG22	14	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG23	14	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG21	15	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG22	15	0.53
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG23	15	0.53
(1,1277)	1:19:B:THR:HG21	1:100:B:LYS:HG2	11	0.53
(1,1277)	1:19:B:THR:HG22	1:100:B:LYS:HG2	11	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1277)	1:19:B:THR:HG23	1:100:B:LYS:HG2	11	0.53
(1,1097)	1:148:A:GLU:H	1:148:A:GLU:HG2	12	0.53
(1,1017)	1:141:A:GLU:H	1:141:A:GLU:HG3	4	0.53
(1,1016)	1:141:A:GLU:H	1:141:A:GLU:HB3	5	0.53
(1,930)	1:130:A:LEU:H	1:130:A:LEU:HB2	1	0.53
(1,887)	1:123:A:ALA:HB1	1:124:A:ARG:H	1	0.53
(1,887)	1:123:A:ALA:HB2	1:124:A:ARG:H	1	0.53
(1,887)	1:123:A:ALA:HB3	1:124:A:ARG:H	1	0.53
(1,761)	1:99:A:LEU:HD21	1:19:A:THR:HA	13	0.53
(1,761)	1:99:A:LEU:HD22	1:19:A:THR:HA	13	0.53
(1,761)	1:99:A:LEU:HD23	1:19:A:THR:HA	13	0.53
(1,740)	1:97:A:GLU:H	1:97:A:GLU:HG3	3	0.53
(1,718)	1:95:A:LYS:H	1:95:A:LYS:HD3	4	0.53
(1,700)	1:93:A:LYS:H	1:93:A:LYS:HD3	6	0.53
(1,650)	1:87:A:THR:HG21	1:88:A:SER:H	10	0.53
(1,650)	1:87:A:THR:HG22	1:88:A:SER:H	10	0.53
(1,650)	1:87:A:THR:HG23	1:88:A:SER:H	10	0.53
(1,406)	1:57:A:LYS:H	1:57:A:LYS:HG2	8	0.53
(1,361)	1:51:A:ASN:HB2	1:52:A:VAL:H	8	0.53
(1,323)	1:47:A:LEU:HD21	1:138:A:ASN:HB2	4	0.53
(1,323)	1:47:A:LEU:HD22	1:138:A:ASN:HB2	4	0.53
(1,323)	1:47:A:LEU:HD23	1:138:A:ASN:HB2	4	0.53
(1,322)	1:47:A:LEU:HD21	1:138:A:ASN:HB3	2	0.53
(1,322)	1:47:A:LEU:HD22	1:138:A:ASN:HB3	2	0.53
(1,322)	1:47:A:LEU:HD23	1:138:A:ASN:HB3	2	0.53
(1,188)	1:29:A:LYS:H	1:29:A:LYS:HD3	9	0.53
(1,129)	1:24:A:ILE:HA	1:26:A:TYR:H	4	0.53
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG12	4	0.53
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG13	4	0.53
(1,2432)	1:143:A:LYS:H	1:97:B:GLU:HG2	14	0.52
(1,2309)	1:149:B:LEU:HD21	1:28:B:CYS:HA	5	0.52
(1,2309)	1:149:B:LEU:HD22	1:28:B:CYS:HA	5	0.52
(1,2309)	1:149:B:LEU:HD23	1:28:B:CYS:HA	5	0.52
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG21	10	0.52
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG22	10	0.52
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG23	10	0.52
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG21	13	0.52
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG22	13	0.52
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG23	13	0.52
(1,2119)	1:130:B:LEU:H	1:130:B:LEU:HB3	7	0.52
(1,1776)	1:78:B:LEU:HD11	1:95:B:LYS:HE2	10	0.52
(1,1776)	1:78:B:LEU:HD12	1:95:B:LYS:HE2	10	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1776)	1:78:B:LEU:HD13	1:95:B:LYS:HE2	10	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG21	1	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG22	1	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG23	1	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG21	3	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG22	3	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG23	3	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG21	5	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG22	5	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG23	5	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG21	6	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG22	6	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG23	6	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG21	8	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG22	8	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG23	8	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG21	10	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG22	10	0.52
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG23	10	0.52
(1,1346)	1:25:B:ILE:HD11	1:79:B:VAL:HG11	4	0.52
(1,1346)	1:25:B:ILE:HD11	1:79:B:VAL:HG12	4	0.52
(1,1346)	1:25:B:ILE:HD11	1:79:B:VAL:HG13	4	0.52
(1,1346)	1:25:B:ILE:HD12	1:79:B:VAL:HG11	4	0.52
(1,1346)	1:25:B:ILE:HD12	1:79:B:VAL:HG12	4	0.52
(1,1346)	1:25:B:ILE:HD12	1:79:B:VAL:HG13	4	0.52
(1,1346)	1:25:B:ILE:HD13	1:79:B:VAL:HG11	4	0.52
(1,1346)	1:25:B:ILE:HD13	1:79:B:VAL:HG12	4	0.52
(1,1346)	1:25:B:ILE:HD13	1:79:B:VAL:HG13	4	0.52
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB1	4	0.52
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB2	4	0.52
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB3	4	0.52
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB1	4	0.52
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB2	4	0.52
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB3	4	0.52
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB1	4	0.52
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB2	4	0.52
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB3	4	0.52
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB1	8	0.52
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB2	8	0.52
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB3	8	0.52
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB1	8	0.52
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB2	8	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB3	8	0.52
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB1	8	0.52
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB2	8	0.52
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB3	8	0.52
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB1	12	0.52
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB2	12	0.52
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB3	12	0.52
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB1	12	0.52
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB2	12	0.52
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB3	12	0.52
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB1	12	0.52
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB2	12	0.52
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB3	12	0.52
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG21	7	0.52
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG22	7	0.52
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG23	7	0.52
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG21	7	0.52
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG22	7	0.52
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG23	7	0.52
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG21	7	0.52
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG22	7	0.52
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG23	7	0.52
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG21	10	0.52
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG22	10	0.52
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG23	10	0.52
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG21	10	0.52
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG22	10	0.52
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG23	10	0.52
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG21	10	0.52
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG22	10	0.52
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG23	10	0.52
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG21	11	0.52
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG22	11	0.52
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG23	11	0.52
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG21	11	0.52
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG22	11	0.52
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG23	11	0.52
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG21	11	0.52
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG22	11	0.52
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG23	11	0.52
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG21	12	0.52
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG22	12	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG23	12	0.52
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG21	12	0.52
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG22	12	0.52
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG23	12	0.52
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG21	12	0.52
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG22	12	0.52
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG23	12	0.52
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB1	12	0.52
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB2	12	0.52
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB3	12	0.52
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB1	12	0.52
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB2	12	0.52
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB3	12	0.52
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB1	12	0.52
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB2	12	0.52
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB3	12	0.52
(1,1115)	1:149:A:LEU:HD11	1:28:A:CYS:HA	13	0.52
(1,1115)	1:149:A:LEU:HD12	1:28:A:CYS:HA	13	0.52
(1,1115)	1:149:A:LEU:HD13	1:28:A:CYS:HA	13	0.52
(1,1009)	1:140:A:GLU:H	1:140:A:GLU:HG3	15	0.52
(1,1000)	1:139:A:GLU:H	1:139:A:GLU:HG2	13	0.52
(1,999)	1:139:A:GLU:H	1:139:A:GLU:HG3	4	0.52
(1,941)	1:133:A:MET:H	1:133:A:MET:HE1	4	0.52
(1,941)	1:133:A:MET:H	1:133:A:MET:HE2	4	0.52
(1,941)	1:133:A:MET:H	1:133:A:MET:HE3	4	0.52
(1,930)	1:130:A:LEU:H	1:130:A:LEU:HB2	2	0.52
(1,887)	1:123:A:ALA:HB1	1:124:A:ARG:H	8	0.52
(1,887)	1:123:A:ALA:HB2	1:124:A:ARG:H	8	0.52
(1,887)	1:123:A:ALA:HB3	1:124:A:ARG:H	8	0.52
(1,887)	1:123:A:ALA:HB1	1:124:A:ARG:H	13	0.52
(1,887)	1:123:A:ALA:HB2	1:124:A:ARG:H	13	0.52
(1,887)	1:123:A:ALA:HB3	1:124:A:ARG:H	13	0.52
(1,699)	1:93:A:LYS:H	1:93:A:LYS:HG2	2	0.52
(1,636)	1:84:A:ILE:HG21	1:85:A:TYR:H	5	0.52
(1,636)	1:84:A:ILE:HG22	1:85:A:TYR:H	5	0.52
(1,636)	1:84:A:ILE:HG23	1:85:A:TYR:H	5	0.52
(1,524)	1:75:A:LEU:HD21	1:76:A:VAL:H	3	0.52
(1,524)	1:75:A:LEU:HD22	1:76:A:VAL:H	3	0.52
(1,524)	1:75:A:LEU:HD23	1:76:A:VAL:H	3	0.52
(1,458)	1:68:A:VAL:HG11	1:106:A:ARG:HG2	4	0.52
(1,458)	1:68:A:VAL:HG12	1:106:A:ARG:HG2	4	0.52
(1,458)	1:68:A:VAL:HG13	1:106:A:ARG:HG2	4	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,425)	1:61:A:GLN:H	1:62:A:TYR:H	12	0.52
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG21	7	0.52
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG22	7	0.52
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG23	7	0.52
(1,246)	1:40:A:LEU:HD11	1:28:A:CYS:HB2	6	0.52
(1,246)	1:40:A:LEU:HD12	1:28:A:CYS:HB2	6	0.52
(1,246)	1:40:A:LEU:HD13	1:28:A:CYS:HB2	6	0.52
(1,143)	1:24:A:ILE:HG21	1:142:A:ILE:HB	13	0.52
(1,143)	1:24:A:ILE:HG22	1:142:A:ILE:HB	13	0.52
(1,143)	1:24:A:ILE:HG23	1:142:A:ILE:HB	13	0.52
(1,93)	1:20:A:PHE:HA	1:22:A:GLU:H	11	0.52
(1,2470)	1:93:A:LYS:H	1:147:B:LYS:HB2	2	0.51
(1,2447)	1:100:A:LYS:HE2	1:139:B:GLU:H	3	0.51
(1,2439)	1:100:A:LYS:HE2	1:140:B:GLU:H	15	0.51
(1,2431)	1:97:A:GLU:HG2	1:143:B:LYS:H	1	0.51
(1,2431)	1:97:A:GLU:HG2	1:143:B:LYS:H	12	0.51
(1,2383)	1:90:A:LYS:HE2	1:151:B:ASP:H	4	0.51
(1,2309)	1:149:B:LEU:HD21	1:28:B:CYS:HA	3	0.51
(1,2309)	1:149:B:LEU:HD22	1:28:B:CYS:HA	3	0.51
(1,2309)	1:149:B:LEU:HD23	1:28:B:CYS:HA	3	0.51
(1,2305)	1:149:B:LEU:HD11	1:28:B:CYS:HA	13	0.51
(1,2305)	1:149:B:LEU:HD12	1:28:B:CYS:HA	13	0.51
(1,2305)	1:149:B:LEU:HD13	1:28:B:CYS:HA	13	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG21	1	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG22	1	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG23	1	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG21	6	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG22	6	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG23	6	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG21	8	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG22	8	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG23	8	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG21	9	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG22	9	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG23	9	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG21	11	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG22	11	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG23	11	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG21	12	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG22	12	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG23	12	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG21	14	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG22	14	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG23	14	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG21	15	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG22	15	0.51
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG23	15	0.51
(1,2163)	1:135:B:THR:HG21	1:51:B:ASN:HB2	3	0.51
(1,2163)	1:135:B:THR:HG22	1:51:B:ASN:HB2	3	0.51
(1,2163)	1:135:B:THR:HG23	1:51:B:ASN:HB2	3	0.51
(1,2034)	1:116:B:ARG:H	1:116:B:ARG:HG3	8	0.51
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD11	4	0.51
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD12	4	0.51
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD13	4	0.51
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD11	4	0.51
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD12	4	0.51
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD13	4	0.51
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD11	4	0.51
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD12	4	0.51
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD13	4	0.51
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD11	5	0.51
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD12	5	0.51
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD13	5	0.51
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD11	5	0.51
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD12	5	0.51
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD13	5	0.51
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD11	5	0.51
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD12	5	0.51
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD13	5	0.51
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD11	6	0.51
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD12	6	0.51
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD13	6	0.51
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD11	6	0.51
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD12	6	0.51
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD13	6	0.51
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD11	6	0.51
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD12	6	0.51
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD13	6	0.51
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD11	10	0.51
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD12	10	0.51
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD13	10	0.51
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD11	10	0.51
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD12	10	0.51
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD13	10	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD11	10	0.51
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD12	10	0.51
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD13	10	0.51
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG21	15	0.51
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG22	15	0.51
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG23	15	0.51
(1,1603)	1:59:B:LYS:H	1:59:B:LYS:HB2	6	0.51
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG21	4	0.51
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG22	4	0.51
(1,1480)	1:45:B:VAL:H	1:45:B:VAL:HG23	4	0.51
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD11	3	0.51
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD12	3	0.51
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD13	3	0.51
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD11	3	0.51
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD12	3	0.51
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD13	3	0.51
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD11	3	0.51
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD12	3	0.51
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD13	3	0.51
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD11	8	0.51
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD12	8	0.51
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD13	8	0.51
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD11	8	0.51
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD12	8	0.51
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD13	8	0.51
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD11	8	0.51
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD12	8	0.51
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD13	8	0.51
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB1	13	0.51
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB2	13	0.51
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB3	13	0.51
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB1	13	0.51
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB2	13	0.51
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB3	13	0.51
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB1	13	0.51
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB2	13	0.51
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB3	13	0.51
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD21	4	0.51
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD22	4	0.51
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD23	4	0.51
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD21	4	0.51
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD22	4	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD23	4	0.51
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD21	4	0.51
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD22	4	0.51
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD23	4	0.51
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD21	8	0.51
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD22	8	0.51
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD23	8	0.51
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD21	8	0.51
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD22	8	0.51
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD23	8	0.51
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD21	8	0.51
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD22	8	0.51
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD23	8	0.51
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD21	10	0.51
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD22	10	0.51
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD23	10	0.51
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD21	10	0.51
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD22	10	0.51
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD23	10	0.51
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD21	10	0.51
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD22	10	0.51
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD23	10	0.51
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG21	7	0.51
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG22	7	0.51
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG23	7	0.51
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG21	11	0.51
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG22	11	0.51
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG23	11	0.51
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG21	12	0.51
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG22	12	0.51
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG23	12	0.51
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG21	14	0.51
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG22	14	0.51
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG23	14	0.51
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG21	15	0.51
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG22	15	0.51
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG23	15	0.51
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG21	4	0.51
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG22	4	0.51
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG23	4	0.51
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG21	4	0.51
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG22	4	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG23	4	0.51
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG21	4	0.51
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG22	4	0.51
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG23	4	0.51
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG21	6	0.51
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG22	6	0.51
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG23	6	0.51
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG21	6	0.51
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG22	6	0.51
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG23	6	0.51
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG21	6	0.51
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG22	6	0.51
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG23	6	0.51
(1,1041)	1:143:A:LYS:H	1:143:A:LYS:HG3	2	0.51
(1,948)	1:134:A:LYS:H	1:134:A:LYS:HD2	14	0.51
(1,945)	1:134:A:LYS:H	1:134:A:LYS:HG3	13	0.51
(1,939)	1:133:A:MET:H	1:133:A:MET:HG3	1	0.51
(1,925)	1:129:A:GLU:H	1:129:A:GLU:HB3	12	0.51
(1,730)	1:96:A:GLU:H	1:96:A:GLU:HG2	9	0.51
(1,653)	1:88:A:SER:H	1:88:A:SER:HB3	4	0.51
(1,531)	1:75:A:LEU:HD11	1:95:A:LYS:HD2	7	0.51
(1,531)	1:75:A:LEU:HD12	1:95:A:LYS:HD2	7	0.51
(1,531)	1:75:A:LEU:HD13	1:95:A:LYS:HD2	7	0.51
(1,469)	1:69:A:GLY:HA2	1:72:A:ALA:H	1	0.51
(1,431)	1:64:A:PHE:H	1:64:A:PHE:HD1	12	0.51
(1,332)	1:48:A:ALA:HB1	1:18:A:MET:HB3	1	0.51
(1,332)	1:48:A:ALA:HB2	1:18:A:MET:HB3	1	0.51
(1,332)	1:48:A:ALA:HB3	1:18:A:MET:HB3	1	0.51
(1,322)	1:47:A:LEU:HD21	1:138:A:ASN:HB3	14	0.51
(1,322)	1:47:A:LEU:HD22	1:138:A:ASN:HB3	14	0.51
(1,322)	1:47:A:LEU:HD23	1:138:A:ASN:HB3	14	0.51
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG21	4	0.51
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG22	4	0.51
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG23	4	0.51
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG21	6	0.51
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG22	6	0.51
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG23	6	0.51
(1,168)	1:26:A:TYR:H	1:26:A:TYR:HD1	14	0.51
(1,137)	1:24:A:ILE:HD11	1:41:A:THR:HA	4	0.51
(1,137)	1:24:A:ILE:HD12	1:41:A:THR:HA	4	0.51
(1,137)	1:24:A:ILE:HD13	1:41:A:THR:HA	4	0.51
(1,129)	1:24:A:ILE:HA	1:26:A:TYR:H	12	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,93)	1:20:A:PHE:HA	1:22:A:GLU:H	2	0.51
(1,93)	1:20:A:PHE:HA	1:22:A:GLU:H	6	0.51
(1,70)	1:19:A:THR:H	1:19:A:THR:HG21	8	0.51
(1,70)	1:19:A:THR:H	1:19:A:THR:HG22	8	0.51
(1,70)	1:19:A:THR:H	1:19:A:THR:HG23	8	0.51
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD11	2	0.51
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD12	2	0.51
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD13	2	0.51
(1,2458)	1:97:A:GLU:H	1:143:B:LYS:HG2	13	0.5
(1,2439)	1:100:A:LYS:HE2	1:140:B:GLU:H	3	0.5
(1,2392)	1:151:A:ASP:H	1:90:B:LYS:HG2	7	0.5
(1,2131)	1:133:B:MET:H	1:133:B:MET:HE1	8	0.5
(1,2131)	1:133:B:MET:H	1:133:B:MET:HE2	8	0.5
(1,2131)	1:133:B:MET:H	1:133:B:MET:HE3	8	0.5
(1,1826)	1:84:B:ILE:HG21	1:85:B:TYR:H	4	0.5
(1,1826)	1:84:B:ILE:HG22	1:85:B:TYR:H	4	0.5
(1,1826)	1:84:B:ILE:HG23	1:85:B:TYR:H	4	0.5
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD11	7	0.5
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD12	7	0.5
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD13	7	0.5
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD11	7	0.5
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD12	7	0.5
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD13	7	0.5
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD11	7	0.5
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD12	7	0.5
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD13	7	0.5
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD11	9	0.5
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD12	9	0.5
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD13	9	0.5
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD11	9	0.5
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD12	9	0.5
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD13	9	0.5
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD11	9	0.5
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD12	9	0.5
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD13	9	0.5
(1,1722)	1:75:B:LEU:HD11	1:95:B:LYS:HE3	5	0.5
(1,1722)	1:75:B:LEU:HD12	1:95:B:LYS:HE3	5	0.5
(1,1722)	1:75:B:LEU:HD13	1:95:B:LYS:HE3	5	0.5
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG21	7	0.5
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG22	7	0.5
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG23	7	0.5
(1,1588)	1:55:B:GLY:HA3	1:57:B:LYS:H	12	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD11	4	0.5
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD12	4	0.5
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD13	4	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD11	4	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD12	4	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD13	4	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD11	4	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD12	4	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD13	4	0.5
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD11	6	0.5
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD12	6	0.5
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD13	6	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD11	6	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD12	6	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD13	6	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD11	6	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD12	6	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD13	6	0.5
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD11	7	0.5
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD12	7	0.5
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD13	7	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD11	7	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD12	7	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD13	7	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD11	7	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD12	7	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD13	7	0.5
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD11	13	0.5
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD12	13	0.5
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD13	13	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD11	13	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD12	13	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD13	13	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD11	13	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD12	13	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD13	13	0.5
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD11	15	0.5
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD12	15	0.5
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD13	15	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD11	15	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD12	15	0.5
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD13	15	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD11	15	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD12	15	0.5
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD13	15	0.5
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG12	13	0.5
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG13	13	0.5
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG12	5	0.5
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG13	5	0.5
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD21	5	0.5
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD22	5	0.5
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD23	5	0.5
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD21	5	0.5
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD22	5	0.5
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD23	5	0.5
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD21	5	0.5
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD22	5	0.5
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD23	5	0.5
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG21	1	0.5
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG22	1	0.5
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG23	1	0.5
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG21	5	0.5
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG22	5	0.5
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG23	5	0.5
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG21	6	0.5
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG22	6	0.5
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG23	6	0.5
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG21	10	0.5
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG22	10	0.5
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG23	10	0.5
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG21	2	0.5
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG22	2	0.5
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG23	2	0.5
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG21	2	0.5
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG22	2	0.5
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG23	2	0.5
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG21	2	0.5
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG22	2	0.5
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG23	2	0.5
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG21	3	0.5
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG22	3	0.5
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG23	3	0.5
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG21	3	0.5
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG22	3	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG23	3	0.5
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG21	3	0.5
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG22	3	0.5
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG23	3	0.5
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB1	2	0.5
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB2	2	0.5
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB3	2	0.5
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB1	2	0.5
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB2	2	0.5
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB3	2	0.5
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB1	2	0.5
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB2	2	0.5
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB3	2	0.5
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB1	3	0.5
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB2	3	0.5
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB3	3	0.5
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB1	3	0.5
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB2	3	0.5
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB3	3	0.5
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB1	3	0.5
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB2	3	0.5
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB3	3	0.5
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB1	4	0.5
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB2	4	0.5
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB3	4	0.5
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB1	4	0.5
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB2	4	0.5
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB3	4	0.5
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB1	4	0.5
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB2	4	0.5
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB3	4	0.5
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB1	13	0.5
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB2	13	0.5
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB3	13	0.5
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB1	13	0.5
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB2	13	0.5
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB3	13	0.5
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB1	13	0.5
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB2	13	0.5
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB3	13	0.5
(1,1148)	1:153:A:GLU:H	1:153:A:GLU:HG3	2	0.5
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD11	3	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD12	3	0.5
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD13	3	0.5
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD11	3	0.5
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD12	3	0.5
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD13	3	0.5
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD11	3	0.5
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD12	3	0.5
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD13	3	0.5
(1,1097)	1:148:A:GLU:H	1:148:A:GLU:HG2	9	0.5
(1,966)	1:135:A:THR:HG21	1:17:A:ASP:HB3	14	0.5
(1,966)	1:135:A:THR:HG22	1:17:A:ASP:HB3	14	0.5
(1,966)	1:135:A:THR:HG23	1:17:A:ASP:HB3	14	0.5
(1,947)	1:134:A:LYS:H	1:134:A:LYS:HD3	13	0.5
(1,887)	1:123:A:ALA:HB1	1:124:A:ARG:H	11	0.5
(1,887)	1:123:A:ALA:HB2	1:124:A:ARG:H	11	0.5
(1,887)	1:123:A:ALA:HB3	1:124:A:ARG:H	11	0.5
(1,839)	1:114:A:LEU:H	1:114:A:LEU:HG	7	0.5
(1,730)	1:96:A:GLU:H	1:96:A:GLU:HG2	10	0.5
(1,729)	1:96:A:GLU:H	1:96:A:GLU:HG3	12	0.5
(1,636)	1:84:A:ILE:HG21	1:85:A:TYR:H	2	0.5
(1,636)	1:84:A:ILE:HG22	1:85:A:TYR:H	2	0.5
(1,636)	1:84:A:ILE:HG23	1:85:A:TYR:H	2	0.5
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG21	4	0.5
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG22	4	0.5
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG23	4	0.5
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG21	6	0.5
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG22	6	0.5
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG23	6	0.5
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG21	8	0.5
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG22	8	0.5
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG23	8	0.5
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG21	10	0.5
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG22	10	0.5
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG23	10	0.5
(1,538)	1:75:A:LEU:HD21	1:95:A:LYS:HG3	4	0.5
(1,538)	1:75:A:LEU:HD22	1:95:A:LYS:HG3	4	0.5
(1,538)	1:75:A:LEU:HD23	1:95:A:LYS:HG3	4	0.5
(1,526)	1:75:A:LEU:HD11	1:95:A:LYS:HB3	15	0.5
(1,526)	1:75:A:LEU:HD12	1:95:A:LYS:HB3	15	0.5
(1,526)	1:75:A:LEU:HD13	1:95:A:LYS:HB3	15	0.5
(1,413)	1:59:A:LYS:H	1:59:A:LYS:HB2	3	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG21	3	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG22	3	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG23	3	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG21	5	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG22	5	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG23	5	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG21	10	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG22	10	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG23	10	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG21	12	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG22	12	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG23	12	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG21	13	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG22	13	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG23	13	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG21	15	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG22	15	0.5
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG23	15	0.5
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD21	15	0.5
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD22	15	0.5
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD23	15	0.5
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD21	15	0.5
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD22	15	0.5
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD23	15	0.5
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD21	15	0.5
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD22	15	0.5
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD23	15	0.5
(1,3)	1:12:A:GLU:H	1:12:A:GLU:HB2	6	0.5
(1,2491)	1:150:A:SER:HB3	1:90:B:LYS:H	6	0.49
(1,2475)	1:147:A:LYS:HD3	1:93:B:LYS:H	2	0.49
(1,2472)	1:93:A:LYS:H	1:147:B:LYS:HG3	11	0.49
(1,2458)	1:97:A:GLU:H	1:143:B:LYS:HG2	1	0.49
(1,2458)	1:97:A:GLU:H	1:143:B:LYS:HG2	11	0.49
(1,2450)	1:137:A:GLU:H	1:104:B:LYS:HE3	8	0.49
(1,2437)	1:100:A:LYS:HE3	1:140:B:GLU:H	3	0.49
(1,2429)	1:97:A:GLU:HG3	1:143:B:LYS:H	14	0.49
(1,2302)	1:149:B:LEU:HD11	1:27:B:HIS:H	6	0.49
(1,2302)	1:149:B:LEU:HD12	1:27:B:HIS:H	6	0.49
(1,2302)	1:149:B:LEU:HD13	1:27:B:HIS:H	6	0.49
(1,2029)	1:114:B:LEU:H	1:114:B:LEU:HG	10	0.49
(1,1573)	1:53:B:ARG:HA	1:56:B:ASN:H	15	0.49
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD11	2	0.49
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD12	2	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD13	2	0.49
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD11	2	0.49
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD12	2	0.49
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD13	2	0.49
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD11	2	0.49
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD12	2	0.49
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD13	2	0.49
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD11	12	0.49
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD12	12	0.49
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD13	12	0.49
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD11	12	0.49
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD12	12	0.49
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD13	12	0.49
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD11	12	0.49
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD12	12	0.49
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD13	12	0.49
(1,1353)	1:25:B:ILE:HG21	1:83:B:PHE:HZ	5	0.49
(1,1353)	1:25:B:ILE:HG22	1:83:B:PHE:HZ	5	0.49
(1,1353)	1:25:B:ILE:HG23	1:83:B:PHE:HZ	5	0.49
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG12	1	0.49
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG13	1	0.49
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG12	15	0.49
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG13	15	0.49
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB1	10	0.49
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB2	10	0.49
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB3	10	0.49
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB1	10	0.49
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB2	10	0.49
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB3	10	0.49
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB1	10	0.49
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB2	10	0.49
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB3	10	0.49
(1,1319)	1:24:B:ILE:HA	1:26:B:TYR:H	7	0.49
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD21	9	0.49
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD22	9	0.49
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD23	9	0.49
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD21	9	0.49
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD22	9	0.49
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD23	9	0.49
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD21	9	0.49
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD22	9	0.49
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD23	9	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD21	12	0.49
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD22	12	0.49
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD23	12	0.49
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD21	12	0.49
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD22	12	0.49
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD23	12	0.49
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD21	12	0.49
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD22	12	0.49
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD23	12	0.49
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB1	9	0.49
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB2	9	0.49
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB3	9	0.49
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB1	9	0.49
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB2	9	0.49
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB3	9	0.49
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB1	9	0.49
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB2	9	0.49
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB3	9	0.49
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB1	14	0.49
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB2	14	0.49
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB3	14	0.49
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB1	14	0.49
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB2	14	0.49
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB3	14	0.49
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB1	14	0.49
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB2	14	0.49
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB3	14	0.49
(1,1148)	1:153:A:GLU:H	1:153:A:GLU:HG3	7	0.49
(1,1070)	1:145:A:LEU:HD21	1:40:A:LEU:HA	10	0.49
(1,1070)	1:145:A:LEU:HD22	1:40:A:LEU:HA	10	0.49
(1,1070)	1:145:A:LEU:HD23	1:40:A:LEU:HA	10	0.49
(1,966)	1:135:A:THR:HG21	1:17:A:ASP:HB3	4	0.49
(1,966)	1:135:A:THR:HG22	1:17:A:ASP:HB3	4	0.49
(1,966)	1:135:A:THR:HG23	1:17:A:ASP:HB3	4	0.49
(1,813)	1:105:A:MET:H	1:105:A:MET:HG2	3	0.49
(1,718)	1:95:A:LYS:H	1:95:A:LYS:HD3	2	0.49
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG21	9	0.49
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG22	9	0.49
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG23	9	0.49
(1,478)	1:71:A:GLN:H	1:71:A:GLN:HG3	8	0.49
(1,425)	1:61:A:GLN:H	1:62:A:TYR:H	1	0.49
(1,416)	1:59:A:LYS:HB2	1:60:A:ALA:H	9	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,361)	1:51:A:ASN:HB2	1:52:A:VAL:H	11	0.49
(1,320)	1:47:A:LEU:HD11	1:138:A:ASN:HB2	12	0.49
(1,320)	1:47:A:LEU:HD12	1:138:A:ASN:HB2	12	0.49
(1,320)	1:47:A:LEU:HD13	1:138:A:ASN:HB2	12	0.49
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG21	1	0.49
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG22	1	0.49
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG23	1	0.49
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG21	2	0.49
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG22	2	0.49
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG23	2	0.49
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG21	11	0.49
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG22	11	0.49
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG23	11	0.49
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD11	5	0.49
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD12	5	0.49
(1,285)	1:44:A:ALA:HB1	1:142:A:ILE:HD13	5	0.49
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD11	5	0.49
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD12	5	0.49
(1,285)	1:44:A:ALA:HB2	1:142:A:ILE:HD13	5	0.49
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD11	5	0.49
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD12	5	0.49
(1,285)	1:44:A:ALA:HB3	1:142:A:ILE:HD13	5	0.49
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG11	11	0.49
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG12	11	0.49
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG13	11	0.49
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG11	11	0.49
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG12	11	0.49
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG13	11	0.49
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG11	11	0.49
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG12	11	0.49
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG13	11	0.49
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD11	6	0.49
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD12	6	0.49
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD13	6	0.49
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD21	14	0.49
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD22	14	0.49
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD23	14	0.49
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD21	14	0.49
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD22	14	0.49
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD23	14	0.49
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD21	14	0.49
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD22	14	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD23	14	0.49
(1,64)	1:18:A:MET:HE1	1:52:A:VAL:HB	11	0.49
(1,64)	1:18:A:MET:HE2	1:52:A:VAL:HB	11	0.49
(1,64)	1:18:A:MET:HE3	1:52:A:VAL:HB	11	0.49
(1,2450)	1:137:A:GLU:H	1:104:B:LYS:HE3	12	0.48
(1,2445)	1:100:A:LYS:HE3	1:139:B:GLU:H	15	0.48
(1,2436)	1:144:A:ASN:H	1:97:B:GLU:HG2	7	0.48
(1,2419)	1:93:A:LYS:HE2	1:146:B:GLU:H	8	0.48
(1,2403)	1:93:A:LYS:HB2	1:147:B:LYS:H	13	0.48
(1,1826)	1:84:B:ILE:HG21	1:85:B:TYR:H	7	0.48
(1,1826)	1:84:B:ILE:HG22	1:85:B:TYR:H	7	0.48
(1,1826)	1:84:B:ILE:HG23	1:85:B:TYR:H	7	0.48
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG12	7	0.48
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG13	7	0.48
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB1	6	0.48
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB2	6	0.48
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB3	6	0.48
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB1	6	0.48
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB2	6	0.48
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB3	6	0.48
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB1	6	0.48
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB2	6	0.48
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB3	6	0.48
(1,1319)	1:24:B:ILE:HA	1:26:B:TYR:H	6	0.48
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG21	5	0.48
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG22	5	0.48
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG23	5	0.48
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG21	5	0.48
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG22	5	0.48
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG23	5	0.48
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG21	5	0.48
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG22	5	0.48
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG23	5	0.48
(1,1034)	1:142:A:ILE:HD11	1:24:A:ILE:HB	11	0.48
(1,1034)	1:142:A:ILE:HD12	1:24:A:ILE:HB	11	0.48
(1,1034)	1:142:A:ILE:HD13	1:24:A:ILE:HB	11	0.48
(1,1024)	1:142:A:ILE:H	1:142:A:ILE:HB	14	0.48
(1,935)	1:131:A:ALA:H	1:132:A:ARG:H	12	0.48
(1,837)	1:114:A:LEU:H	1:114:A:LEU:HB3	4	0.48
(1,740)	1:97:A:GLU:H	1:97:A:GLU:HG3	9	0.48
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG21	2	0.48
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG22	2	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG23	2	0.48
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG21	13	0.48
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG22	13	0.48
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG23	13	0.48
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD11	1	0.48
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD12	1	0.48
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD13	1	0.48
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD11	1	0.48
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD12	1	0.48
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD13	1	0.48
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD11	1	0.48
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD12	1	0.48
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD13	1	0.48
(1,538)	1:75:A:LEU:HD21	1:95:A:LYS:HG3	1	0.48
(1,538)	1:75:A:LEU:HD22	1:95:A:LYS:HG3	1	0.48
(1,538)	1:75:A:LEU:HD23	1:95:A:LYS:HG3	1	0.48
(1,316)	1:47:A:LEU:HB2	1:48:A:ALA:H	1	0.48
(1,316)	1:47:A:LEU:HB3	1:48:A:ALA:H	1	0.48
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG21	8	0.48
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG22	8	0.48
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG23	8	0.48
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG21	9	0.48
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG22	9	0.48
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG23	9	0.48
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD21	6	0.48
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD22	6	0.48
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD23	6	0.48
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD21	6	0.48
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD22	6	0.48
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD23	6	0.48
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD21	6	0.48
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD22	6	0.48
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD23	6	0.48
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB1	9	0.48
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB2	9	0.48
(1,27)	1:15:A:LEU:HD21	1:103:A:ALA:HB3	9	0.48
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB1	9	0.48
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB2	9	0.48
(1,27)	1:15:A:LEU:HD22	1:103:A:ALA:HB3	9	0.48
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB1	9	0.48
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB2	9	0.48
(1,27)	1:15:A:LEU:HD23	1:103:A:ALA:HB3	9	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2491)	1:150:A:SER:HB3	1:90:B:LYS:H	12	0.47
(1,2440)	1:140:A:GLU:H	1:100:B:LYS:HE2	14	0.47
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD11	11	0.47
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD12	11	0.47
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD13	11	0.47
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD11	11	0.47
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD12	11	0.47
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD13	11	0.47
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD11	11	0.47
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD12	11	0.47
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD13	11	0.47
(1,1718)	1:75:B:LEU:HD11	1:95:B:LYS:HG3	5	0.47
(1,1718)	1:75:B:LEU:HD12	1:95:B:LYS:HG3	5	0.47
(1,1718)	1:75:B:LEU:HD13	1:95:B:LYS:HG3	5	0.47
(1,1603)	1:59:B:LYS:H	1:59:B:LYS:HB2	13	0.47
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD11	10	0.47
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD12	10	0.47
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD13	10	0.47
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD11	10	0.47
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD12	10	0.47
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD13	10	0.47
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD11	10	0.47
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD12	10	0.47
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD13	10	0.47
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG12	14	0.47
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG13	14	0.47
(1,1319)	1:24:B:ILE:HA	1:26:B:TYR:H	14	0.47
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG12	14	0.47
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG13	14	0.47
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD21	1	0.47
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD22	1	0.47
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD23	1	0.47
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD21	1	0.47
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD22	1	0.47
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD23	1	0.47
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD21	1	0.47
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD22	1	0.47
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD23	1	0.47
(1,1174)	1:156:A:LEU:H	1:156:A:LEU:HG	14	0.47
(1,1097)	1:148:A:GLU:H	1:148:A:GLU:HG2	1	0.47
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD11	6	0.47
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD12	6	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD13	6	0.47
(1,940)	1:133:A:MET:H	1:133:A:MET:HB2	6	0.47
(1,887)	1:123:A:ALA:HB1	1:124:A:ARG:H	14	0.47
(1,887)	1:123:A:ALA:HB2	1:124:A:ARG:H	14	0.47
(1,887)	1:123:A:ALA:HB3	1:124:A:ARG:H	14	0.47
(1,877)	1:122:A:GLU:H	1:122:A:GLU:HG2	12	0.47
(1,866)	1:120:A:GLU:H	1:120:A:GLU:HB3	14	0.47
(1,835)	1:113:A:GLU:H	1:114:A:LEU:H	2	0.47
(1,813)	1:105:A:MET:H	1:105:A:MET:HG2	10	0.47
(1,800)	1:104:A:LYS:H	1:104:A:LYS:HG3	6	0.47
(1,696)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	14	0.47
(1,696)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	14	0.47
(1,696)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	14	0.47
(1,694)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	14	0.47
(1,694)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	14	0.47
(1,694)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	14	0.47
(1,660)	1:89:A:GLY:HA3	1:90:A:LYS:H	2	0.47
(1,660)	1:89:A:GLY:HA3	1:90:A:LYS:H	3	0.47
(1,622)	1:82:A:SER:H	1:83:A:PHE:HB3	3	0.47
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD21	4	0.47
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD22	4	0.47
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD23	4	0.47
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD21	4	0.47
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD22	4	0.47
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD23	4	0.47
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD21	4	0.47
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD22	4	0.47
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD23	4	0.47
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG21	3	0.47
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG22	3	0.47
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG23	3	0.47
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG21	5	0.47
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG22	5	0.47
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG23	5	0.47
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG21	11	0.47
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG22	11	0.47
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG23	11	0.47
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG21	14	0.47
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG22	14	0.47
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG23	14	0.47
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG21	15	0.47
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG22	15	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG23	15	0.47
(1,412)	1:59:A:LYS:H	1:59:A:LYS:HB3	12	0.47
(1,316)	1:47:A:LEU:HB2	1:48:A:ALA:H	6	0.47
(1,316)	1:47:A:LEU:HB3	1:48:A:ALA:H	6	0.47
(1,168)	1:26:A:TYR:H	1:26:A:TYR:HD1	4	0.47
(1,168)	1:26:A:TYR:H	1:26:A:TYR:HD1	9	0.47
(1,129)	1:24:A:ILE:HA	1:26:A:TYR:H	15	0.47
(1,2494)	1:90:A:LYS:H	1:150:B:SER:HB2	2	0.46
(1,2452)	1:137:A:GLU:H	1:104:B:LYS:HE2	2	0.46
(1,2432)	1:143:A:LYS:H	1:97:B:GLU:HG2	15	0.46
(1,2386)	1:151:A:ASP:H	1:90:B:LYS:HD3	7	0.46
(1,2351)	1:155:B:LYS:H	1:155:B:LYS:HB3	10	0.46
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD11	8	0.46
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD12	8	0.46
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD13	8	0.46
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD11	8	0.46
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD12	8	0.46
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD13	8	0.46
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD11	8	0.46
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD12	8	0.46
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD13	8	0.46
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD11	2	0.46
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD12	2	0.46
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD13	2	0.46
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD11	2	0.46
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD12	2	0.46
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD13	2	0.46
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD11	2	0.46
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD12	2	0.46
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD13	2	0.46
(1,1729)	1:75:B:LEU:HD21	1:95:B:LYS:HG2	2	0.46
(1,1729)	1:75:B:LEU:HD22	1:95:B:LYS:HG2	2	0.46
(1,1729)	1:75:B:LEU:HD23	1:95:B:LYS:HG2	2	0.46
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD11	9	0.46
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD12	9	0.46
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD13	9	0.46
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD11	9	0.46
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD12	9	0.46
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD13	9	0.46
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD11	9	0.46
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD12	9	0.46
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD13	9	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG12	11	0.46
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG13	11	0.46
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD21	6	0.46
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD22	6	0.46
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD23	6	0.46
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD21	6	0.46
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD22	6	0.46
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD23	6	0.46
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD21	6	0.46
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD22	6	0.46
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD23	6	0.46
(1,1097)	1:148:A:GLU:H	1:148:A:GLU:HG2	5	0.46
(1,1059)	1:145:A:LEU:H	1:145:A:LEU:HG	15	0.46
(1,1024)	1:142:A:ILE:H	1:142:A:ILE:HB	5	0.46
(1,1024)	1:142:A:ILE:H	1:142:A:ILE:HB	11	0.46
(1,970)	1:135:A:THR:HG21	1:18:A:MET:HG3	1	0.46
(1,970)	1:135:A:THR:HG22	1:18:A:MET:HG3	1	0.46
(1,970)	1:135:A:THR:HG23	1:18:A:MET:HG3	1	0.46
(1,948)	1:134:A:LYS:H	1:134:A:LYS:HD2	1	0.46
(1,940)	1:133:A:MET:H	1:133:A:MET:HB2	12	0.46
(1,695)	1:92:A:LEU:HD21	1:83:A:PHE:HE2	7	0.46
(1,695)	1:92:A:LEU:HD22	1:83:A:PHE:HE2	7	0.46
(1,695)	1:92:A:LEU:HD23	1:83:A:PHE:HE2	7	0.46
(1,676)	1:91:A:GLU:H	1:91:A:GLU:HG2	3	0.46
(1,636)	1:84:A:ILE:HG21	1:85:A:TYR:H	7	0.46
(1,636)	1:84:A:ILE:HG22	1:85:A:TYR:H	7	0.46
(1,636)	1:84:A:ILE:HG23	1:85:A:TYR:H	7	0.46
(1,636)	1:84:A:ILE:HG21	1:85:A:TYR:H	14	0.46
(1,636)	1:84:A:ILE:HG22	1:85:A:TYR:H	14	0.46
(1,636)	1:84:A:ILE:HG23	1:85:A:TYR:H	14	0.46
(1,593)	1:79:A:VAL:HG11	1:80:A:ALA:H	1	0.46
(1,593)	1:79:A:VAL:HG12	1:80:A:ALA:H	1	0.46
(1,593)	1:79:A:VAL:HG13	1:80:A:ALA:H	1	0.46
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG21	1	0.46
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG22	1	0.46
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG23	1	0.46
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG21	12	0.46
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG22	12	0.46
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG23	12	0.46
(1,541)	1:75:A:LEU:HD21	1:95:A:LYS:HE3	2	0.46
(1,541)	1:75:A:LEU:HD22	1:95:A:LYS:HE3	2	0.46
(1,541)	1:75:A:LEU:HD23	1:95:A:LYS:HE3	2	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,417)	1:59:A:LYS:HG2	1:60:A:ALA:H	11	0.46
(1,331)	1:48:A:ALA:HB1	1:18:A:MET:HA	4	0.46
(1,331)	1:48:A:ALA:HB2	1:18:A:MET:HA	4	0.46
(1,331)	1:48:A:ALA:HB3	1:18:A:MET:HA	4	0.46
(1,316)	1:47:A:LEU:HB2	1:48:A:ALA:H	8	0.46
(1,316)	1:47:A:LEU:HB3	1:48:A:ALA:H	8	0.46
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG21	14	0.46
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG22	14	0.46
(1,290)	1:45:A:VAL:H	1:45:A:VAL:HG23	14	0.46
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD11	11	0.46
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD12	11	0.46
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD13	11	0.46
(1,163)	1:25:A:ILE:HG21	1:83:A:PHE:HZ	3	0.46
(1,163)	1:25:A:ILE:HG22	1:83:A:PHE:HZ	3	0.46
(1,163)	1:25:A:ILE:HG23	1:83:A:PHE:HZ	3	0.46
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG12	4	0.46
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG13	4	0.46
(1,79)	1:19:A:THR:HG21	1:99:A:LEU:HB3	4	0.46
(1,79)	1:19:A:THR:HG22	1:99:A:LEU:HB3	4	0.46
(1,79)	1:19:A:THR:HG23	1:99:A:LEU:HB3	4	0.46
(1,64)	1:18:A:MET:HE1	1:52:A:VAL:HB	13	0.46
(1,64)	1:18:A:MET:HE2	1:52:A:VAL:HB	13	0.46
(1,64)	1:18:A:MET:HE3	1:52:A:VAL:HB	13	0.46
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB1	13	0.46
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB2	13	0.46
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB3	13	0.46
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB1	13	0.46
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB2	13	0.46
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB3	13	0.46
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB1	13	0.46
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB2	13	0.46
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB3	13	0.46
(1,2476)	1:93:A:LYS:H	1:147:B:LYS:HD3	3	0.45
(1,2473)	1:147:A:LYS:HG2	1:93:B:LYS:H	15	0.45
(1,2453)	1:143:A:LYS:HD2	1:96:B:GLU:H	6	0.45
(1,2433)	1:97:A:GLU:HG3	1:144:B:ASN:H	3	0.45
(1,2417)	1:93:A:LYS:HE3	1:146:B:GLU:H	14	0.45
(1,2351)	1:155:B:LYS:H	1:155:B:LYS:HB3	6	0.45
(1,1826)	1:84:B:ILE:HG21	1:85:B:TYR:H	6	0.45
(1,1826)	1:84:B:ILE:HG22	1:85:B:TYR:H	6	0.45
(1,1826)	1:84:B:ILE:HG23	1:85:B:TYR:H	6	0.45
(1,1826)	1:84:B:ILE:HG21	1:85:B:TYR:H	15	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1826)	1:84:B:ILE:HG22	1:85:B:TYR:H	15	0.45
(1,1826)	1:84:B:ILE:HG23	1:85:B:TYR:H	15	0.45
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD11	14	0.45
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD12	14	0.45
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD13	14	0.45
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD11	14	0.45
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD12	14	0.45
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD13	14	0.45
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD11	14	0.45
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD12	14	0.45
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD13	14	0.45
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG12	6	0.45
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG13	6	0.45
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG12	12	0.45
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG13	12	0.45
(1,1319)	1:24:B:ILE:HA	1:26:B:TYR:H	4	0.45
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG12	7	0.45
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG13	7	0.45
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD21	7	0.45
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD22	7	0.45
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD23	7	0.45
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD21	7	0.45
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD22	7	0.45
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD23	7	0.45
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD21	7	0.45
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD22	7	0.45
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD23	7	0.45
(1,1009)	1:140:A:GLU:H	1:140:A:GLU:HG3	1	0.45
(1,940)	1:133:A:MET:H	1:133:A:MET:HB2	4	0.45
(1,858)	1:119:A:GLU:H	1:119:A:GLU:HG3	15	0.45
(1,636)	1:84:A:ILE:HG21	1:85:A:TYR:H	3	0.45
(1,636)	1:84:A:ILE:HG22	1:85:A:TYR:H	3	0.45
(1,636)	1:84:A:ILE:HG23	1:85:A:TYR:H	3	0.45
(1,615)	1:82:A:SER:H	1:82:A:SER:HB3	7	0.45
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD11	9	0.45
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD12	9	0.45
(1,595)	1:79:A:VAL:HG21	1:92:A:LEU:HD13	9	0.45
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD11	9	0.45
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD12	9	0.45
(1,595)	1:79:A:VAL:HG22	1:92:A:LEU:HD13	9	0.45
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD11	9	0.45
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD12	9	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,595)	1:79:A:VAL:HG23	1:92:A:LEU:HD13	9	0.45
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG21	7	0.45
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG22	7	0.45
(1,553)	1:76:A:VAL:H	1:76:A:VAL:HG23	7	0.45
(1,469)	1:69:A:GLY:HA2	1:72:A:ALA:H	2	0.45
(1,469)	1:69:A:GLY:HA2	1:72:A:ALA:H	11	0.45
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD11	5	0.45
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD12	5	0.45
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD13	5	0.45
(1,331)	1:48:A:ALA:HB1	1:18:A:MET:HA	8	0.45
(1,331)	1:48:A:ALA:HB2	1:18:A:MET:HA	8	0.45
(1,331)	1:48:A:ALA:HB3	1:18:A:MET:HA	8	0.45
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB2	6	0.45
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB3	6	0.45
(1,164)	1:25:A:ILE:HG21	1:83:A:PHE:HE2	8	0.45
(1,164)	1:25:A:ILE:HG22	1:83:A:PHE:HE2	8	0.45
(1,164)	1:25:A:ILE:HG23	1:83:A:PHE:HE2	8	0.45
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG12	5	0.45
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG13	5	0.45
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG12	12	0.45
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG13	12	0.45
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD11	3	0.45
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD12	3	0.45
(1,144)	1:24:A:ILE:HG21	1:142:A:ILE:HD13	3	0.45
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD11	3	0.45
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD12	3	0.45
(1,144)	1:24:A:ILE:HG22	1:142:A:ILE:HD13	3	0.45
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD11	3	0.45
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD12	3	0.45
(1,144)	1:24:A:ILE:HG23	1:142:A:ILE:HD13	3	0.45
(1,93)	1:20:A:PHE:HA	1:22:A:GLU:H	5	0.45
(1,3)	1:12:A:GLU:H	1:12:A:GLU:HB2	5	0.45
(1,2)	1:12:A:GLU:H	1:12:A:GLU:HB3	11	0.45
(1,2474)	1:93:A:LYS:H	1:147:B:LYS:HG2	5	0.44
(1,2430)	1:143:A:LYS:H	1:97:B:GLU:HG3	2	0.44
(1,2401)	1:93:A:LYS:HB3	1:147:B:LYS:H	10	0.44
(1,2351)	1:155:B:LYS:H	1:155:B:LYS:HB3	15	0.44
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG21	5	0.44
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG22	5	0.44
(1,2217)	1:142:B:ILE:H	1:142:B:ILE:HG23	5	0.44
(1,2131)	1:133:B:MET:H	1:133:B:MET:HE1	15	0.44
(1,2131)	1:133:B:MET:H	1:133:B:MET:HE2	15	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2131)	1:133:B:MET:H	1:133:B:MET:HE3	15	0.44
(1,2120)	1:130:B:LEU:H	1:130:B:LEU:HB2	5	0.44
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD11	4	0.44
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD12	4	0.44
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD13	4	0.44
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD11	4	0.44
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD12	4	0.44
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD13	4	0.44
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD11	4	0.44
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD12	4	0.44
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD13	4	0.44
(1,1650)	1:68:B:VAL:HG11	1:106:B:ARG:HD2	2	0.44
(1,1650)	1:68:B:VAL:HG12	1:106:B:ARG:HD2	2	0.44
(1,1650)	1:68:B:VAL:HG13	1:106:B:ARG:HD2	2	0.44
(1,1648)	1:68:B:VAL:HG11	1:106:B:ARG:HG2	6	0.44
(1,1648)	1:68:B:VAL:HG12	1:106:B:ARG:HG2	6	0.44
(1,1648)	1:68:B:VAL:HG13	1:106:B:ARG:HG2	6	0.44
(1,1512)	1:47:B:LEU:HD21	1:138:B:ASN:HB3	8	0.44
(1,1512)	1:47:B:LEU:HD22	1:138:B:ASN:HB3	8	0.44
(1,1512)	1:47:B:LEU:HD23	1:138:B:ASN:HB3	8	0.44
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG12	10	0.44
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG13	10	0.44
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG12	1	0.44
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG13	1	0.44
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD21	2	0.44
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD22	2	0.44
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD23	2	0.44
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD21	2	0.44
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD22	2	0.44
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD23	2	0.44
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD21	2	0.44
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD22	2	0.44
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD23	2	0.44
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD21	11	0.44
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD22	11	0.44
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD23	11	0.44
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD21	11	0.44
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD22	11	0.44
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD23	11	0.44
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD21	11	0.44
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD22	11	0.44
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD23	11	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1193)	1:12:B:GLU:H	1:12:B:GLU:HB2	10	0.44
(1,1173)	1:156:A:LEU:H	1:156:A:LEU:HB2	11	0.44
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD11	5	0.44
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD12	5	0.44
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD13	5	0.44
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD11	5	0.44
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD12	5	0.44
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD13	5	0.44
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD11	5	0.44
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD12	5	0.44
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD13	5	0.44
(1,1058)	1:145:A:LEU:H	1:145:A:LEU:HB2	4	0.44
(1,925)	1:129:A:GLU:H	1:129:A:GLU:HB3	2	0.44
(1,873)	1:121:A:THR:H	1:121:A:THR:HB	5	0.44
(1,666)	1:90:A:LYS:H	1:90:A:LYS:HD2	10	0.44
(1,636)	1:84:A:ILE:HG21	1:85:A:TYR:H	15	0.44
(1,636)	1:84:A:ILE:HG22	1:85:A:TYR:H	15	0.44
(1,636)	1:84:A:ILE:HG23	1:85:A:TYR:H	15	0.44
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD21	8	0.44
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD22	8	0.44
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD23	8	0.44
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD21	8	0.44
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD22	8	0.44
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD23	8	0.44
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD21	8	0.44
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD22	8	0.44
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD23	8	0.44
(1,547)	1:75:A:LEU:HD21	1:99:A:LEU:HD21	5	0.44
(1,547)	1:75:A:LEU:HD21	1:99:A:LEU:HD22	5	0.44
(1,547)	1:75:A:LEU:HD21	1:99:A:LEU:HD23	5	0.44
(1,547)	1:75:A:LEU:HD22	1:99:A:LEU:HD21	5	0.44
(1,547)	1:75:A:LEU:HD22	1:99:A:LEU:HD22	5	0.44
(1,547)	1:75:A:LEU:HD22	1:99:A:LEU:HD23	5	0.44
(1,547)	1:75:A:LEU:HD23	1:99:A:LEU:HD21	5	0.44
(1,547)	1:75:A:LEU:HD23	1:99:A:LEU:HD22	5	0.44
(1,547)	1:75:A:LEU:HD23	1:99:A:LEU:HD23	5	0.44
(1,536)	1:75:A:LEU:HD21	1:95:A:LYS:HB3	4	0.44
(1,536)	1:75:A:LEU:HD22	1:95:A:LYS:HB3	4	0.44
(1,536)	1:75:A:LEU:HD23	1:95:A:LYS:HB3	4	0.44
(1,316)	1:47:A:LEU:HB2	1:48:A:ALA:H	4	0.44
(1,316)	1:47:A:LEU:HB3	1:48:A:ALA:H	4	0.44
(1,244)	1:40:A:LEU:HD21	1:24:A:ILE:HB	11	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,244)	1:40:A:LEU:HD22	1:24:A:ILE:HB	11	0.44
(1,244)	1:40:A:LEU:HD23	1:24:A:ILE:HB	11	0.44
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG12	1	0.44
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG13	1	0.44
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG21	9	0.44
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG22	9	0.44
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG23	9	0.44
(1,2493)	1:150:A:SER:HB2	1:90:B:LYS:H	15	0.43
(1,2462)	1:97:A:GLU:H	1:143:B:LYS:HD2	8	0.43
(1,2426)	1:147:A:LYS:HE3	1:94:B:ALA:HB1	7	0.43
(1,2426)	1:147:A:LYS:HE3	1:94:B:ALA:HB2	7	0.43
(1,2426)	1:147:A:LYS:HE3	1:94:B:ALA:HB3	7	0.43
(1,2397)	1:90:A:LYS:HG3	1:150:B:SER:H	7	0.43
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB1	15	0.43
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB2	15	0.43
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB3	15	0.43
(1,2020)	1:111:B:ILE:H	1:112:B:GLN:H	12	0.43
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD11	12	0.43
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD12	12	0.43
(1,1785)	1:79:B:VAL:HG21	1:92:B:LEU:HD13	12	0.43
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD11	12	0.43
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD12	12	0.43
(1,1785)	1:79:B:VAL:HG22	1:92:B:LEU:HD13	12	0.43
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD11	12	0.43
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD12	12	0.43
(1,1785)	1:79:B:VAL:HG23	1:92:B:LEU:HD13	12	0.43
(1,1783)	1:79:B:VAL:HG11	1:80:B:ALA:H	6	0.43
(1,1783)	1:79:B:VAL:HG12	1:80:B:ALA:H	6	0.43
(1,1783)	1:79:B:VAL:HG13	1:80:B:ALA:H	6	0.43
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD11	3	0.43
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD12	3	0.43
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD13	3	0.43
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD11	3	0.43
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD12	3	0.43
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD13	3	0.43
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD11	3	0.43
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD12	3	0.43
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD13	3	0.43
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD11	13	0.43
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD12	13	0.43
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD13	13	0.43
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD11	13	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD12	13	0.43
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD13	13	0.43
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD11	13	0.43
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD12	13	0.43
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD13	13	0.43
(1,1419)	1:39:B:LEU:H	1:39:B:LEU:HB2	8	0.43
(1,1419)	1:39:B:LEU:H	1:39:B:LEU:HB2	14	0.43
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG12	8	0.43
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG13	8	0.43
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG21	4	0.43
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG22	4	0.43
(1,1260)	1:19:B:THR:H	1:19:B:THR:HG23	4	0.43
(1,1017)	1:141:A:GLU:H	1:141:A:GLU:HG3	2	0.43
(1,930)	1:130:A:LEU:H	1:130:A:LEU:HB2	11	0.43
(1,908)	1:126:A:LYS:H	1:126:A:LYS:HB3	9	0.43
(1,865)	1:120:A:GLU:H	1:120:A:GLU:HB2	7	0.43
(1,813)	1:105:A:MET:H	1:105:A:MET:HG2	2	0.43
(1,813)	1:105:A:MET:H	1:105:A:MET:HG2	8	0.43
(1,813)	1:105:A:MET:H	1:105:A:MET:HG2	9	0.43
(1,781)	1:102:A:LYS:H	1:102:A:LYS:HB2	9	0.43
(1,781)	1:102:A:LYS:H	1:102:A:LYS:HB2	10	0.43
(1,739)	1:97:A:GLU:H	1:97:A:GLU:HG2	1	0.43
(1,739)	1:97:A:GLU:H	1:97:A:GLU:HG2	13	0.43
(1,716)	1:95:A:LYS:H	1:95:A:LYS:HB2	4	0.43
(1,642)	1:85:A:TYR:HB3	1:86:A:GLY:H	1	0.43
(1,641)	1:85:A:TYR:H	1:86:A:GLY:H	6	0.43
(1,641)	1:85:A:TYR:H	1:86:A:GLY:H	7	0.43
(1,639)	1:85:A:TYR:H	1:85:A:TYR:HB2	5	0.43
(1,639)	1:85:A:TYR:H	1:85:A:TYR:HB2	12	0.43
(1,469)	1:69:A:GLY:HA2	1:72:A:ALA:H	4	0.43
(1,469)	1:69:A:GLY:HA2	1:72:A:ALA:H	7	0.43
(1,439)	1:66:A:TRP:H	1:66:A:TRP:HB2	8	0.43
(1,431)	1:64:A:PHE:H	1:64:A:PHE:HD1	6	0.43
(1,430)	1:64:A:PHE:H	1:64:A:PHE:HB2	2	0.43
(1,361)	1:51:A:ASN:HB2	1:52:A:VAL:H	10	0.43
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD11	2	0.43
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD12	2	0.43
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD13	2	0.43
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB2	9	0.43
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB3	9	0.43
(1,237)	1:40:A:LEU:H	1:40:A:LEU:HB2	8	0.43
(1,229)	1:39:A:LEU:H	1:39:A:LEU:HB2	3	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,189)	1:29:A:LYS:H	1:29:A:LYS:HG2	7	0.43
(1,165)	1:25:A:ILE:HG21	1:83:A:PHE:HE1	13	0.43
(1,165)	1:25:A:ILE:HG22	1:83:A:PHE:HE1	13	0.43
(1,165)	1:25:A:ILE:HG23	1:83:A:PHE:HE1	13	0.43
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG12	2	0.43
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG13	2	0.43
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG12	3	0.43
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG13	3	0.43
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG12	13	0.43
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG13	13	0.43
(1,132)	1:24:A:ILE:HD11	1:40:A:LEU:HB3	8	0.43
(1,132)	1:24:A:ILE:HD12	1:40:A:LEU:HB3	8	0.43
(1,132)	1:24:A:ILE:HD13	1:40:A:LEU:HB3	8	0.43
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG12	14	0.43
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG13	14	0.43
(1,2438)	1:140:A:GLU:H	1:100:B:LYS:HE3	13	0.42
(1,2431)	1:97:A:GLU:HG2	1:143:B:LYS:H	13	0.42
(1,2351)	1:155:B:LYS:H	1:155:B:LYS:HB3	7	0.42
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD11	5	0.42
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD12	5	0.42
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD13	5	0.42
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD11	7	0.42
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD12	7	0.42
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD13	7	0.42
(1,2106)	1:127:B:ARG:H	1:127:B:ARG:HB2	11	0.42
(1,1906)	1:95:B:LYS:H	1:95:B:LYS:HB2	11	0.42
(1,1839)	1:87:B:THR:H	1:88:B:SER:H	6	0.42
(1,1419)	1:39:B:LEU:H	1:39:B:LEU:HB2	9	0.42
(1,1419)	1:39:B:LEU:H	1:39:B:LEU:HB2	13	0.42
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG12	5	0.42
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG13	5	0.42
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG12	9	0.42
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG13	9	0.42
(1,1245)	1:18:B:MET:HE1	1:48:B:ALA:HA	15	0.42
(1,1245)	1:18:B:MET:HE2	1:48:B:ALA:HA	15	0.42
(1,1245)	1:18:B:MET:HE3	1:48:B:ALA:HA	15	0.42
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD11	4	0.42
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD12	4	0.42
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD13	4	0.42
(1,1173)	1:156:A:LEU:H	1:156:A:LEU:HB2	13	0.42
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD11	13	0.42
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD12	13	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD13	13	0.42
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD11	13	0.42
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD12	13	0.42
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD13	13	0.42
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD11	13	0.42
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD12	13	0.42
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD13	13	0.42
(1,1095)	1:148:A:GLU:H	1:148:A:GLU:HB2	10	0.42
(1,1095)	1:148:A:GLU:H	1:148:A:GLU:HB2	15	0.42
(1,998)	1:139:A:GLU:H	1:139:A:GLU:HB2	8	0.42
(1,998)	1:139:A:GLU:H	1:139:A:GLU:HB2	9	0.42
(1,966)	1:135:A:THR:HG21	1:17:A:ASP:HB3	9	0.42
(1,966)	1:135:A:THR:HG22	1:17:A:ASP:HB3	9	0.42
(1,966)	1:135:A:THR:HG23	1:17:A:ASP:HB3	9	0.42
(1,944)	1:134:A:LYS:H	1:134:A:LYS:HB2	1	0.42
(1,940)	1:133:A:MET:H	1:133:A:MET:HB2	10	0.42
(1,926)	1:129:A:GLU:H	1:129:A:GLU:HB2	6	0.42
(1,916)	1:127:A:ARG:H	1:127:A:ARG:HB2	5	0.42
(1,916)	1:127:A:ARG:H	1:127:A:ARG:HB2	7	0.42
(1,813)	1:105:A:MET:H	1:105:A:MET:HG2	13	0.42
(1,781)	1:102:A:LYS:H	1:102:A:LYS:HB2	1	0.42
(1,781)	1:102:A:LYS:H	1:102:A:LYS:HB2	7	0.42
(1,781)	1:102:A:LYS:H	1:102:A:LYS:HB2	8	0.42
(1,781)	1:102:A:LYS:H	1:102:A:LYS:HB2	15	0.42
(1,716)	1:95:A:LYS:H	1:95:A:LYS:HB2	5	0.42
(1,663)	1:90:A:LYS:H	1:90:A:LYS:HB2	5	0.42
(1,663)	1:90:A:LYS:H	1:90:A:LYS:HB2	11	0.42
(1,639)	1:85:A:TYR:H	1:85:A:TYR:HB2	1	0.42
(1,639)	1:85:A:TYR:H	1:85:A:TYR:HB2	11	0.42
(1,469)	1:69:A:GLY:HA2	1:72:A:ALA:H	10	0.42
(1,469)	1:69:A:GLY:HA2	1:72:A:ALA:H	14	0.42
(1,430)	1:64:A:PHE:H	1:64:A:PHE:HB2	5	0.42
(1,360)	1:51:A:ASN:HB3	1:52:A:VAL:H	1	0.42
(1,360)	1:51:A:ASN:HB3	1:52:A:VAL:H	2	0.42
(1,345)	1:49:A:ALA:HB1	1:50:A:GLN:H	4	0.42
(1,345)	1:49:A:ALA:HB2	1:50:A:GLN:H	4	0.42
(1,345)	1:49:A:ALA:HB3	1:50:A:GLN:H	4	0.42
(1,345)	1:49:A:ALA:HB1	1:50:A:GLN:H	15	0.42
(1,345)	1:49:A:ALA:HB2	1:50:A:GLN:H	15	0.42
(1,345)	1:49:A:ALA:HB3	1:50:A:GLN:H	15	0.42
(1,316)	1:47:A:LEU:HB2	1:48:A:ALA:H	2	0.42
(1,316)	1:47:A:LEU:HB3	1:48:A:ALA:H	2	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,316)	1:47:A:LEU:HB2	1:48:A:ALA:H	9	0.42
(1,316)	1:47:A:LEU:HB3	1:48:A:ALA:H	9	0.42
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB2	15	0.42
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB3	15	0.42
(1,254)	1:40:A:LEU:HD21	1:145:A:LEU:HB3	12	0.42
(1,254)	1:40:A:LEU:HD22	1:145:A:LEU:HB3	12	0.42
(1,254)	1:40:A:LEU:HD23	1:145:A:LEU:HB3	12	0.42
(1,237)	1:40:A:LEU:H	1:40:A:LEU:HB2	12	0.42
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG11	9	0.42
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG12	9	0.42
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG13	9	0.42
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG11	9	0.42
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG12	9	0.42
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG13	9	0.42
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG11	9	0.42
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG12	9	0.42
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG13	9	0.42
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG12	7	0.42
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG13	7	0.42
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG12	9	0.42
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG13	9	0.42
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG12	10	0.42
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG13	10	0.42
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG12	11	0.42
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG13	11	0.42
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG12	14	0.42
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG13	14	0.42
(1,141)	1:24:A:ILE:HD11	1:146:A:GLU:HG3	11	0.42
(1,141)	1:24:A:ILE:HD12	1:146:A:GLU:HG3	11	0.42
(1,141)	1:24:A:ILE:HD13	1:146:A:GLU:HG3	11	0.42
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB1	2	0.42
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB2	2	0.42
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB3	2	0.42
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB1	2	0.42
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB2	2	0.42
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB3	2	0.42
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB1	2	0.42
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB2	2	0.42
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB3	2	0.42
(1,133)	1:24:A:ILE:HD11	1:40:A:LEU:HB2	4	0.42
(1,133)	1:24:A:ILE:HD12	1:40:A:LEU:HB2	4	0.42
(1,133)	1:24:A:ILE:HD13	1:40:A:LEU:HB2	4	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,129)	1:24:A:ILE:HA	1:26:A:TYR:H	13	0.42
(1,114)	1:23:A:ARG:H	1:23:A:ARG:HB2	10	0.42
(1,2454)	1:96:A:GLU:H	1:143:B:LYS:HD2	3	0.41
(1,2447)	1:100:A:LYS:HE2	1:139:B:GLU:H	11	0.41
(1,2416)	1:147:A:LYS:H	1:93:B:LYS:HE2	12	0.41
(1,2401)	1:93:A:LYS:HB3	1:147:B:LYS:H	9	0.41
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD11	15	0.41
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD12	15	0.41
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD13	15	0.41
(1,2249)	1:145:B:LEU:H	1:145:B:LEU:HG	13	0.41
(1,2241)	1:144:B:ASN:H	1:144:B:ASN:HB2	2	0.41
(1,2017)	1:110:B:TRP:H	1:110:B:TRP:HB3	7	0.41
(1,1962)	1:101:B:GLU:H	1:101:B:GLU:HB2	6	0.41
(1,1929)	1:97:B:GLU:H	1:97:B:GLU:HG2	6	0.41
(1,1906)	1:95:B:LYS:H	1:95:B:LYS:HB2	14	0.41
(1,1829)	1:85:B:TYR:H	1:85:B:TYR:HB2	5	0.41
(1,1826)	1:84:B:ILE:HG21	1:85:B:TYR:H	14	0.41
(1,1826)	1:84:B:ILE:HG22	1:85:B:TYR:H	14	0.41
(1,1826)	1:84:B:ILE:HG23	1:85:B:TYR:H	14	0.41
(1,1419)	1:39:B:LEU:H	1:39:B:LEU:HB2	10	0.41
(1,1319)	1:24:B:ILE:HA	1:26:B:TYR:H	5	0.41
(1,1319)	1:24:B:ILE:HA	1:26:B:TYR:H	11	0.41
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG12	11	0.41
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG13	11	0.41
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB1	6	0.41
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB2	6	0.41
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB3	6	0.41
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB1	6	0.41
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB2	6	0.41
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB3	6	0.41
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB1	6	0.41
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB2	6	0.41
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB3	6	0.41
(1,1187)	1:159:A:LYS:H	1:159:A:LYS:HB2	10	0.41
(1,1097)	1:148:A:GLU:H	1:148:A:GLU:HG2	13	0.41
(1,1095)	1:148:A:GLU:H	1:148:A:GLU:HB2	7	0.41
(1,1040)	1:143:A:LYS:H	1:143:A:LYS:HB2	1	0.41
(1,1034)	1:142:A:ILE:HD11	1:24:A:ILE:HB	5	0.41
(1,1034)	1:142:A:ILE:HD12	1:24:A:ILE:HB	5	0.41
(1,1034)	1:142:A:ILE:HD13	1:24:A:ILE:HB	5	0.41
(1,1017)	1:141:A:GLU:H	1:141:A:GLU:HG3	7	0.41
(1,991)	1:138:A:ASN:H	1:138:A:ASN:HB2	7	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,967)	1:135:A:THR:HG21	1:17:A:ASP:HB2	1	0.41
(1,967)	1:135:A:THR:HG22	1:17:A:ASP:HB2	1	0.41
(1,967)	1:135:A:THR:HG23	1:17:A:ASP:HB2	1	0.41
(1,957)	1:135:A:THR:H	1:135:A:THR:HB	5	0.41
(1,899)	1:125:A:ARG:H	1:125:A:ARG:HG3	1	0.41
(1,772)	1:101:A:GLU:H	1:101:A:GLU:HB2	8	0.41
(1,730)	1:96:A:GLU:H	1:96:A:GLU:HG2	14	0.41
(1,716)	1:95:A:LYS:H	1:95:A:LYS:HB2	13	0.41
(1,663)	1:90:A:LYS:H	1:90:A:LYS:HB2	7	0.41
(1,639)	1:85:A:TYR:H	1:85:A:TYR:HB2	8	0.41
(1,639)	1:85:A:TYR:H	1:85:A:TYR:HB2	10	0.41
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD21	7	0.41
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD22	7	0.41
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD23	7	0.41
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD21	7	0.41
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD22	7	0.41
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD23	7	0.41
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD21	7	0.41
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD22	7	0.41
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD23	7	0.41
(1,593)	1:79:A:VAL:HG11	1:80:A:ALA:H	15	0.41
(1,593)	1:79:A:VAL:HG12	1:80:A:ALA:H	15	0.41
(1,593)	1:79:A:VAL:HG13	1:80:A:ALA:H	15	0.41
(1,469)	1:69:A:GLY:HA2	1:72:A:ALA:H	12	0.41
(1,439)	1:66:A:TRP:H	1:66:A:TRP:HB2	2	0.41
(1,373)	1:52:A:VAL:HG11	1:69:A:GLY:HA3	12	0.41
(1,373)	1:52:A:VAL:HG12	1:69:A:GLY:HA3	12	0.41
(1,373)	1:52:A:VAL:HG13	1:69:A:GLY:HA3	12	0.41
(1,360)	1:51:A:ASN:HB3	1:52:A:VAL:H	14	0.41
(1,345)	1:49:A:ALA:HB1	1:50:A:GLN:H	14	0.41
(1,345)	1:49:A:ALA:HB2	1:50:A:GLN:H	14	0.41
(1,345)	1:49:A:ALA:HB3	1:50:A:GLN:H	14	0.41
(1,316)	1:47:A:LEU:HB2	1:48:A:ALA:H	3	0.41
(1,316)	1:47:A:LEU:HB3	1:48:A:ALA:H	3	0.41
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB2	2	0.41
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB3	2	0.41
(1,237)	1:40:A:LEU:H	1:40:A:LEU:HB2	6	0.41
(1,143)	1:24:A:ILE:HG21	1:142:A:ILE:HB	7	0.41
(1,143)	1:24:A:ILE:HG22	1:142:A:ILE:HB	7	0.41
(1,143)	1:24:A:ILE:HG23	1:142:A:ILE:HB	7	0.41
(1,142)	1:24:A:ILE:HD11	1:146:A:GLU:HG2	5	0.41
(1,142)	1:24:A:ILE:HD12	1:146:A:GLU:HG2	5	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,142)	1:24:A:ILE:HD13	1:146:A:GLU:HG2	5	0.41
(1,142)	1:24:A:ILE:HD11	1:146:A:GLU:HG2	12	0.41
(1,142)	1:24:A:ILE:HD12	1:146:A:GLU:HG2	12	0.41
(1,142)	1:24:A:ILE:HD13	1:146:A:GLU:HG2	12	0.41
(1,114)	1:23:A:ARG:H	1:23:A:ARG:HB2	2	0.41
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD21	4	0.41
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD22	4	0.41
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD23	4	0.41
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD21	4	0.41
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD22	4	0.41
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD23	4	0.41
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD21	4	0.41
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD22	4	0.41
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD23	4	0.41
(1,79)	1:19:A:THR:HG21	1:99:A:LEU:HB3	5	0.41
(1,79)	1:19:A:THR:HG22	1:99:A:LEU:HB3	5	0.41
(1,79)	1:19:A:THR:HG23	1:99:A:LEU:HB3	5	0.41
(1,61)	1:18:A:MET:HE1	1:51:A:ASN:HB2	15	0.41
(1,61)	1:18:A:MET:HE2	1:51:A:ASN:HB2	15	0.41
(1,61)	1:18:A:MET:HE3	1:51:A:ASN:HB2	15	0.41
(1,58)	1:18:A:MET:HE1	1:49:A:ALA:HA	12	0.41
(1,58)	1:18:A:MET:HE2	1:49:A:ALA:HA	12	0.41
(1,58)	1:18:A:MET:HE3	1:49:A:ALA:HA	12	0.41
(1,3)	1:12:A:GLU:H	1:12:A:GLU:HB2	9	0.41
(1,2437)	1:100:A:LYS:HE3	1:140:B:GLU:H	1	0.4
(1,2429)	1:97:A:GLU:HG3	1:143:B:LYS:H	6	0.4
(1,2414)	1:147:A:LYS:H	1:93:B:LYS:HE3	6	0.4
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD11	12	0.4
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD12	12	0.4
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD13	12	0.4
(1,2160)	1:135:B:THR:HG21	1:18:B:MET:HG3	6	0.4
(1,2160)	1:135:B:THR:HG22	1:18:B:MET:HG3	6	0.4
(1,2160)	1:135:B:THR:HG23	1:18:B:MET:HG3	6	0.4
(1,2099)	1:126:B:LYS:H	1:126:B:LYS:HB2	11	0.4
(1,2055)	1:120:B:GLU:H	1:120:B:GLU:HB2	7	0.4
(1,2018)	1:110:B:TRP:H	1:111:B:ILE:H	2	0.4
(1,1906)	1:95:B:LYS:H	1:95:B:LYS:HB2	2	0.4
(1,1853)	1:90:B:LYS:H	1:90:B:LYS:HB2	15	0.4
(1,1829)	1:85:B:TYR:H	1:85:B:TYR:HB2	4	0.4
(1,1783)	1:79:B:VAL:HG11	1:80:B:ALA:H	10	0.4
(1,1783)	1:79:B:VAL:HG12	1:80:B:ALA:H	10	0.4
(1,1783)	1:79:B:VAL:HG13	1:80:B:ALA:H	10	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1513)	1:47:B:LEU:HD21	1:138:B:ASN:HB2	10	0.4
(1,1513)	1:47:B:LEU:HD22	1:138:B:ASN:HB2	10	0.4
(1,1513)	1:47:B:LEU:HD23	1:138:B:ASN:HB2	10	0.4
(1,1512)	1:47:B:LEU:HD21	1:138:B:ASN:HB3	4	0.4
(1,1512)	1:47:B:LEU:HD22	1:138:B:ASN:HB3	4	0.4
(1,1512)	1:47:B:LEU:HD23	1:138:B:ASN:HB3	4	0.4
(1,1357)	1:26:B:TYR:H	1:26:B:TYR:HB3	8	0.4
(1,1349)	1:25:B:ILE:HD11	1:41:B:THR:HA	4	0.4
(1,1349)	1:25:B:ILE:HD12	1:41:B:THR:HA	4	0.4
(1,1349)	1:25:B:ILE:HD13	1:41:B:THR:HA	4	0.4
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG12	2	0.4
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG13	2	0.4
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG12	4	0.4
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG13	4	0.4
(1,1245)	1:18:B:MET:HE1	1:48:B:ALA:HA	4	0.4
(1,1245)	1:18:B:MET:HE2	1:48:B:ALA:HA	4	0.4
(1,1245)	1:18:B:MET:HE3	1:48:B:ALA:HA	4	0.4
(1,1173)	1:156:A:LEU:H	1:156:A:LEU:HB2	1	0.4
(1,1147)	1:153:A:GLU:H	1:153:A:GLU:HB3	13	0.4
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD11	5	0.4
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD12	5	0.4
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD13	5	0.4
(1,1135)	1:152:A:LEU:H	1:152:A:LEU:HB3	10	0.4
(1,1119)	1:149:A:LEU:HD21	1:28:A:CYS:HA	1	0.4
(1,1119)	1:149:A:LEU:HD22	1:28:A:CYS:HA	1	0.4
(1,1119)	1:149:A:LEU:HD23	1:28:A:CYS:HA	1	0.4
(1,1070)	1:145:A:LEU:HD21	1:40:A:LEU:HA	8	0.4
(1,1070)	1:145:A:LEU:HD22	1:40:A:LEU:HA	8	0.4
(1,1070)	1:145:A:LEU:HD23	1:40:A:LEU:HA	8	0.4
(1,1043)	1:143:A:LYS:H	1:143:A:LYS:HD3	11	0.4
(1,1040)	1:143:A:LYS:H	1:143:A:LYS:HB2	3	0.4
(1,1040)	1:143:A:LYS:H	1:143:A:LYS:HB2	8	0.4
(1,1034)	1:142:A:ILE:HD11	1:24:A:ILE:HB	7	0.4
(1,1034)	1:142:A:ILE:HD12	1:24:A:ILE:HB	7	0.4
(1,1034)	1:142:A:ILE:HD13	1:24:A:ILE:HB	7	0.4
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG21	12	0.4
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG22	12	0.4
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG23	12	0.4
(1,998)	1:139:A:GLU:H	1:139:A:GLU:HB2	4	0.4
(1,940)	1:133:A:MET:H	1:133:A:MET:HB2	1	0.4
(1,916)	1:127:A:ARG:H	1:127:A:ARG:HB2	11	0.4
(1,865)	1:120:A:GLU:H	1:120:A:GLU:HB2	2	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,865)	1:120:A:GLU:H	1:120:A:GLU:HB2	5	0.4
(1,846)	1:117:A:ARG:H	1:117:A:ARG:HB2	5	0.4
(1,846)	1:117:A:ARG:H	1:117:A:ARG:HB2	11	0.4
(1,813)	1:105:A:MET:H	1:105:A:MET:HG2	1	0.4
(1,810)	1:105:A:MET:H	1:105:A:MET:HE1	15	0.4
(1,810)	1:105:A:MET:H	1:105:A:MET:HE2	15	0.4
(1,810)	1:105:A:MET:H	1:105:A:MET:HE3	15	0.4
(1,800)	1:104:A:LYS:H	1:104:A:LYS:HG3	2	0.4
(1,781)	1:102:A:LYS:H	1:102:A:LYS:HB2	12	0.4
(1,728)	1:96:A:GLU:H	1:96:A:GLU:HB2	13	0.4
(1,716)	1:95:A:LYS:H	1:95:A:LYS:HB2	14	0.4
(1,663)	1:90:A:LYS:H	1:90:A:LYS:HB2	1	0.4
(1,639)	1:85:A:TYR:H	1:85:A:TYR:HB2	7	0.4
(1,485)	1:71:A:GLN:HB2	1:72:A:ALA:H	15	0.4
(1,439)	1:66:A:TRP:H	1:66:A:TRP:HB2	13	0.4
(1,425)	1:61:A:GLN:H	1:62:A:TYR:H	11	0.4
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB1	4	0.4
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB2	4	0.4
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB3	4	0.4
(1,417)	1:59:A:LYS:HG2	1:60:A:ALA:H	5	0.4
(1,355)	1:51:A:ASN:H	1:51:A:ASN:HB2	9	0.4
(1,345)	1:49:A:ALA:HB1	1:50:A:GLN:H	6	0.4
(1,345)	1:49:A:ALA:HB2	1:50:A:GLN:H	6	0.4
(1,345)	1:49:A:ALA:HB3	1:50:A:GLN:H	6	0.4
(1,237)	1:40:A:LEU:H	1:40:A:LEU:HB2	4	0.4
(1,229)	1:39:A:LEU:H	1:39:A:LEU:HB2	2	0.4
(1,229)	1:39:A:LEU:H	1:39:A:LEU:HB2	5	0.4
(1,168)	1:26:A:TYR:H	1:26:A:TYR:HD1	12	0.4
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG12	15	0.4
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG13	15	0.4
(1,143)	1:24:A:ILE:HG21	1:142:A:ILE:HB	10	0.4
(1,143)	1:24:A:ILE:HG22	1:142:A:ILE:HB	10	0.4
(1,143)	1:24:A:ILE:HG23	1:142:A:ILE:HB	10	0.4
(1,129)	1:24:A:ILE:HA	1:26:A:TYR:H	11	0.4
(1,107)	1:22:A:GLU:H	1:22:A:GLU:HG3	15	0.4
(1,106)	1:22:A:GLU:H	1:22:A:GLU:HG3	15	0.4
(1,93)	1:20:A:PHE:HA	1:22:A:GLU:H	14	0.4
(1,2455)	1:143:A:LYS:HG3	1:97:B:GLU:H	12	0.39
(1,2438)	1:140:A:GLU:H	1:100:B:LYS:HE3	9	0.39
(1,2419)	1:93:A:LYS:HE2	1:146:B:GLU:H	5	0.39
(1,2381)	1:90:A:LYS:HE3	1:151:B:ASP:H	4	0.39
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD11	8	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD12	8	0.39
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD13	8	0.39
(1,2229)	1:143:B:LYS:H	1:143:B:LYS:HB3	3	0.39
(1,1971)	1:102:B:LYS:H	1:102:B:LYS:HB2	4	0.39
(1,1853)	1:90:B:LYS:H	1:90:B:LYS:HB2	6	0.39
(1,1853)	1:90:B:LYS:H	1:90:B:LYS:HB2	13	0.39
(1,1783)	1:79:B:VAL:HG11	1:80:B:ALA:H	8	0.39
(1,1783)	1:79:B:VAL:HG12	1:80:B:ALA:H	8	0.39
(1,1783)	1:79:B:VAL:HG13	1:80:B:ALA:H	8	0.39
(1,1650)	1:68:B:VAL:HG11	1:106:B:ARG:HD2	11	0.39
(1,1650)	1:68:B:VAL:HG12	1:106:B:ARG:HD2	11	0.39
(1,1650)	1:68:B:VAL:HG13	1:106:B:ARG:HD2	11	0.39
(1,1607)	1:59:B:LYS:HG2	1:60:B:ALA:H	8	0.39
(1,1590)	1:55:B:GLY:HA2	1:57:B:LYS:H	12	0.39
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG11	3	0.39
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG12	3	0.39
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG13	3	0.39
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG11	5	0.39
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG12	5	0.39
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG13	5	0.39
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG11	7	0.39
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG12	7	0.39
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG13	7	0.39
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG11	11	0.39
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG12	11	0.39
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG13	11	0.39
(1,1545)	1:51:B:ASN:H	1:51:B:ASN:HB2	4	0.39
(1,1357)	1:26:B:TYR:H	1:26:B:TYR:HB3	9	0.39
(1,1228)	1:17:B:ASP:H	1:17:B:ASP:HB2	7	0.39
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD11	6	0.39
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD12	6	0.39
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD13	6	0.39
(1,1157)	1:154:A:ASN:H	1:154:A:ASN:HB2	15	0.39
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD11	2	0.39
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD12	2	0.39
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD13	2	0.39
(1,1136)	1:152:A:LEU:H	1:152:A:LEU:HG	14	0.39
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD11	13	0.39
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD12	13	0.39
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD13	13	0.39
(1,1074)	1:146:A:GLU:H	1:146:A:GLU:HB2	14	0.39
(1,1051)	1:144:A:ASN:H	1:144:A:ASN:HB2	2	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG21	8	0.39
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG22	8	0.39
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG23	8	0.39
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG21	9	0.39
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG22	9	0.39
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG23	9	0.39
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG21	11	0.39
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG22	11	0.39
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG23	11	0.39
(1,967)	1:135:A:THR:HG21	1:17:A:ASP:HB2	2	0.39
(1,967)	1:135:A:THR:HG22	1:17:A:ASP:HB2	2	0.39
(1,967)	1:135:A:THR:HG23	1:17:A:ASP:HB2	2	0.39
(1,957)	1:135:A:THR:H	1:135:A:THR:HB	15	0.39
(1,925)	1:129:A:GLU:H	1:129:A:GLU:HB3	1	0.39
(1,865)	1:120:A:GLU:H	1:120:A:GLU:HB2	3	0.39
(1,796)	1:103:A:ALA:HB1	1:15:A:LEU:HB2	13	0.39
(1,796)	1:103:A:ALA:HB2	1:15:A:LEU:HB2	13	0.39
(1,796)	1:103:A:ALA:HB3	1:15:A:LEU:HB2	13	0.39
(1,716)	1:95:A:LYS:H	1:95:A:LYS:HB2	11	0.39
(1,716)	1:95:A:LYS:H	1:95:A:LYS:HB2	12	0.39
(1,653)	1:88:A:SER:H	1:88:A:SER:HB3	8	0.39
(1,642)	1:85:A:TYR:HB3	1:86:A:GLY:H	4	0.39
(1,642)	1:85:A:TYR:HB3	1:86:A:GLY:H	13	0.39
(1,639)	1:85:A:TYR:H	1:85:A:TYR:HB2	9	0.39
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD21	6	0.39
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD22	6	0.39
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD23	6	0.39
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD21	6	0.39
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD22	6	0.39
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD23	6	0.39
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD21	6	0.39
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD22	6	0.39
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD23	6	0.39
(1,469)	1:69:A:GLY:HA2	1:72:A:ALA:H	6	0.39
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG11	1	0.39
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG12	1	0.39
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG13	1	0.39
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG11	11	0.39
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG12	11	0.39
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG13	11	0.39
(1,430)	1:64:A:PHE:H	1:64:A:PHE:HB2	3	0.39
(1,430)	1:64:A:PHE:H	1:64:A:PHE:HB2	10	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,406)	1:57:A:LYS:H	1:57:A:LYS:HG2	9	0.39
(1,380)	1:53:A:ARG:H	1:53:A:ARG:HG2	4	0.39
(1,380)	1:53:A:ARG:H	1:53:A:ARG:HG3	4	0.39
(1,367)	1:52:A:VAL:HB	1:53:A:ARG:H	11	0.39
(1,345)	1:49:A:ALA:HB1	1:50:A:GLN:H	2	0.39
(1,345)	1:49:A:ALA:HB2	1:50:A:GLN:H	2	0.39
(1,345)	1:49:A:ALA:HB3	1:50:A:GLN:H	2	0.39
(1,335)	1:48:A:ALA:HB1	1:18:A:MET:HG2	2	0.39
(1,335)	1:48:A:ALA:HB2	1:18:A:MET:HG2	2	0.39
(1,335)	1:48:A:ALA:HB3	1:18:A:MET:HG2	2	0.39
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD11	14	0.39
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD12	14	0.39
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD13	14	0.39
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB1	7	0.39
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB2	7	0.39
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB3	7	0.39
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB1	7	0.39
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB2	7	0.39
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB3	7	0.39
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB1	7	0.39
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB2	7	0.39
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB3	7	0.39
(1,129)	1:24:A:ILE:HA	1:26:A:TYR:H	3	0.39
(1,129)	1:24:A:ILE:HA	1:26:A:TYR:H	5	0.39
(1,93)	1:20:A:PHE:HA	1:22:A:GLU:H	8	0.39
(1,93)	1:20:A:PHE:HA	1:22:A:GLU:H	9	0.39
(1,86)	1:19:A:THR:HG21	1:100:A:LYS:HG3	13	0.39
(1,86)	1:19:A:THR:HG22	1:100:A:LYS:HG3	13	0.39
(1,86)	1:19:A:THR:HG23	1:100:A:LYS:HG3	13	0.39
(1,62)	1:18:A:MET:HE1	1:52:A:VAL:H	7	0.39
(1,62)	1:18:A:MET:HE2	1:52:A:VAL:H	7	0.39
(1,62)	1:18:A:MET:HE3	1:52:A:VAL:H	7	0.39
(1,38)	1:17:A:ASP:H	1:17:A:ASP:HB2	5	0.39
(1,2468)	1:93:A:LYS:H	1:147:B:LYS:HB3	14	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD11	1	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD12	1	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD13	1	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD11	2	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD12	2	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD13	2	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD11	6	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD12	6	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD13	6	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD11	9	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD12	9	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD13	9	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD11	10	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD12	10	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD13	10	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD11	13	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD12	13	0.38
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD13	13	0.38
(1,2319)	1:151:B:ASP:H	1:151:B:ASP:HB2	14	0.38
(1,2099)	1:126:B:LYS:H	1:126:B:LYS:HB2	6	0.38
(1,2086)	1:124:B:ARG:HA	1:127:B:ARG:H	5	0.38
(1,2068)	1:122:B:GLU:H	1:122:B:GLU:HB2	6	0.38
(1,2033)	1:116:B:ARG:H	1:116:B:ARG:HB2	7	0.38
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB2	5	0.38
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB3	5	0.38
(1,1906)	1:95:B:LYS:H	1:95:B:LYS:HB2	3	0.38
(1,1853)	1:90:B:LYS:H	1:90:B:LYS:HB2	11	0.38
(1,1853)	1:90:B:LYS:H	1:90:B:LYS:HB2	12	0.38
(1,1783)	1:79:B:VAL:HG11	1:80:B:ALA:H	12	0.38
(1,1783)	1:79:B:VAL:HG12	1:80:B:ALA:H	12	0.38
(1,1783)	1:79:B:VAL:HG13	1:80:B:ALA:H	12	0.38
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD11	9	0.38
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD12	9	0.38
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD13	9	0.38
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD11	9	0.38
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD12	9	0.38
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD13	9	0.38
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD11	9	0.38
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD12	9	0.38
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD13	9	0.38
(1,1732)	1:75:B:LEU:HD21	1:95:B:LYS:HE2	7	0.38
(1,1732)	1:75:B:LEU:HD22	1:95:B:LYS:HE2	7	0.38
(1,1732)	1:75:B:LEU:HD23	1:95:B:LYS:HE2	7	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG11	1	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG12	1	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG13	1	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG11	2	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG12	2	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG13	2	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG11	10	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG12	10	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG13	10	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG11	13	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG12	13	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG13	13	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG11	14	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG12	14	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG13	14	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG11	15	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG12	15	0.38
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG13	15	0.38
(1,1513)	1:47:B:LEU:HD21	1:138:B:ASN:HB2	8	0.38
(1,1513)	1:47:B:LEU:HD22	1:138:B:ASN:HB2	8	0.38
(1,1513)	1:47:B:LEU:HD23	1:138:B:ASN:HB2	8	0.38
(1,1319)	1:24:B:ILE:HA	1:26:B:TYR:H	13	0.38
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG21	15	0.38
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG22	15	0.38
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG23	15	0.38
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG21	15	0.38
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG22	15	0.38
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG23	15	0.38
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG21	15	0.38
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG22	15	0.38
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG23	15	0.38
(1,1157)	1:154:A:ASN:H	1:154:A:ASN:HB2	3	0.38
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD11	6	0.38
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD12	6	0.38
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD13	6	0.38
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD11	15	0.38
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD12	15	0.38
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD13	15	0.38
(1,1136)	1:152:A:LEU:H	1:152:A:LEU:HG	3	0.38
(1,1095)	1:148:A:GLU:H	1:148:A:GLU:HB2	13	0.38
(1,1070)	1:145:A:LEU:HD21	1:40:A:LEU:HA	12	0.38
(1,1070)	1:145:A:LEU:HD22	1:40:A:LEU:HA	12	0.38
(1,1070)	1:145:A:LEU:HD23	1:40:A:LEU:HA	12	0.38
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG21	5	0.38
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG22	5	0.38
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG23	5	0.38
(1,1008)	1:140:A:GLU:H	1:140:A:GLU:HB2	10	0.38
(1,968)	1:135:A:THR:HG21	1:18:A:MET:H	7	0.38
(1,968)	1:135:A:THR:HG22	1:18:A:MET:H	7	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,968)	1:135:A:THR:HG23	1:18:A:MET:H	7	0.38
(1,957)	1:135:A:THR:H	1:135:A:THR:HB	3	0.38
(1,957)	1:135:A:THR:H	1:135:A:THR:HB	14	0.38
(1,946)	1:134:A:LYS:H	1:134:A:LYS:HG2	2	0.38
(1,944)	1:134:A:LYS:H	1:134:A:LYS:HB2	12	0.38
(1,941)	1:133:A:MET:H	1:133:A:MET:HE1	8	0.38
(1,941)	1:133:A:MET:H	1:133:A:MET:HE2	8	0.38
(1,941)	1:133:A:MET:H	1:133:A:MET:HE3	8	0.38
(1,925)	1:129:A:GLU:H	1:129:A:GLU:HB3	3	0.38
(1,925)	1:129:A:GLU:H	1:129:A:GLU:HB3	13	0.38
(1,909)	1:126:A:LYS:H	1:126:A:LYS:HB2	8	0.38
(1,898)	1:125:A:ARG:H	1:125:A:ARG:HB3	15	0.38
(1,843)	1:116:A:ARG:H	1:116:A:ARG:HB2	6	0.38
(1,835)	1:113:A:GLU:H	1:114:A:LEU:H	4	0.38
(1,781)	1:102:A:LYS:H	1:102:A:LYS:HB2	6	0.38
(1,729)	1:96:A:GLU:H	1:96:A:GLU:HG3	11	0.38
(1,716)	1:95:A:LYS:H	1:95:A:LYS:HB2	2	0.38
(1,668)	1:90:A:LYS:H	1:90:A:LYS:HE2	5	0.38
(1,649)	1:87:A:THR:H	1:88:A:SER:H	14	0.38
(1,622)	1:82:A:SER:H	1:83:A:PHE:HB3	7	0.38
(1,580)	1:78:A:LEU:HD11	1:95:A:LYS:HB2	14	0.38
(1,580)	1:78:A:LEU:HD12	1:95:A:LYS:HB2	14	0.38
(1,580)	1:78:A:LEU:HD13	1:95:A:LYS:HB2	14	0.38
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD11	10	0.38
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD12	10	0.38
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD13	10	0.38
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD11	14	0.38
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD12	14	0.38
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD13	14	0.38
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD11	14	0.38
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD12	14	0.38
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD13	14	0.38
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD11	14	0.38
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD12	14	0.38
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD13	14	0.38
(1,540)	1:75:A:LEU:HD21	1:95:A:LYS:HD3	13	0.38
(1,540)	1:75:A:LEU:HD22	1:95:A:LYS:HD3	13	0.38
(1,540)	1:75:A:LEU:HD23	1:95:A:LYS:HD3	13	0.38
(1,533)	1:75:A:LEU:HD11	1:95:A:LYS:HE2	4	0.38
(1,533)	1:75:A:LEU:HD12	1:95:A:LYS:HE2	4	0.38
(1,533)	1:75:A:LEU:HD13	1:95:A:LYS:HE2	4	0.38
(1,469)	1:69:A:GLY:HA2	1:72:A:ALA:H	3	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,439)	1:66:A:TRP:H	1:66:A:TRP:HB2	4	0.38
(1,439)	1:66:A:TRP:H	1:66:A:TRP:HB2	9	0.38
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB1	10	0.38
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB2	10	0.38
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB3	10	0.38
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB1	11	0.38
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB2	11	0.38
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB3	11	0.38
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB1	13	0.38
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB2	13	0.38
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB3	13	0.38
(1,374)	1:52:A:VAL:HG11	1:69:A:GLY:HA2	14	0.38
(1,374)	1:52:A:VAL:HG12	1:69:A:GLY:HA2	14	0.38
(1,374)	1:52:A:VAL:HG13	1:69:A:GLY:HA2	14	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG11	1	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG12	1	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG13	1	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG11	2	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG12	2	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG13	2	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG11	3	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG12	3	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG13	3	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG11	5	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG12	5	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG13	5	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG11	6	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG12	6	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG13	6	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG11	7	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG12	7	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG13	7	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG11	10	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG12	10	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG13	10	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG11	12	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG12	12	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG13	12	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG11	14	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG12	14	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG13	14	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG11	15	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG12	15	0.38
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG13	15	0.38
(1,361)	1:51:A:ASN:HB2	1:52:A:VAL:H	12	0.38
(1,360)	1:51:A:ASN:HB3	1:52:A:VAL:H	9	0.38
(1,360)	1:51:A:ASN:HB3	1:52:A:VAL:H	13	0.38
(1,345)	1:49:A:ALA:HB1	1:50:A:GLN:H	3	0.38
(1,345)	1:49:A:ALA:HB2	1:50:A:GLN:H	3	0.38
(1,345)	1:49:A:ALA:HB3	1:50:A:GLN:H	3	0.38
(1,345)	1:49:A:ALA:HB1	1:50:A:GLN:H	5	0.38
(1,345)	1:49:A:ALA:HB2	1:50:A:GLN:H	5	0.38
(1,345)	1:49:A:ALA:HB3	1:50:A:GLN:H	5	0.38
(1,316)	1:47:A:LEU:HB2	1:48:A:ALA:H	15	0.38
(1,316)	1:47:A:LEU:HB3	1:48:A:ALA:H	15	0.38
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB2	1	0.38
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB3	1	0.38
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD11	4	0.38
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD12	4	0.38
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD13	4	0.38
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD11	4	0.38
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD12	4	0.38
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD13	4	0.38
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD11	4	0.38
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD12	4	0.38
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD13	4	0.38
(1,165)	1:25:A:ILE:HG21	1:83:A:PHE:HE1	3	0.38
(1,165)	1:25:A:ILE:HG22	1:83:A:PHE:HE1	3	0.38
(1,165)	1:25:A:ILE:HG23	1:83:A:PHE:HE1	3	0.38
(1,129)	1:24:A:ILE:HA	1:26:A:TYR:H	1	0.38
(1,129)	1:24:A:ILE:HA	1:26:A:TYR:H	2	0.38
(1,2439)	1:100:A:LYS:HE2	1:140:B:GLU:H	2	0.37
(1,2432)	1:143:A:LYS:H	1:97:B:GLU:HG2	1	0.37
(1,2432)	1:143:A:LYS:H	1:97:B:GLU:HG2	11	0.37
(1,2431)	1:97:A:GLU:HG2	1:143:B:LYS:H	5	0.37
(1,2401)	1:93:A:LYS:HB3	1:147:B:LYS:H	1	0.37
(1,2396)	1:150:A:SER:H	1:90:B:LYS:HD2	5	0.37
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD11	3	0.37
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD12	3	0.37
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD13	3	0.37
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD11	4	0.37
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD12	4	0.37
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD13	4	0.37
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD11	11	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD12	11	0.37
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD13	11	0.37
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD11	14	0.37
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD12	14	0.37
(1,2327)	1:152:B:LEU:HG	1:152:B:LEU:HD13	14	0.37
(1,2263)	1:146:B:GLU:H	1:146:B:GLU:HB3	15	0.37
(1,2249)	1:145:B:LEU:H	1:145:B:LEU:HG	12	0.37
(1,2181)	1:138:B:ASN:H	1:138:B:ASN:HB2	2	0.37
(1,2181)	1:138:B:ASN:H	1:138:B:ASN:HB2	3	0.37
(1,2055)	1:120:B:GLU:H	1:120:B:GLU:HB2	5	0.37
(1,2027)	1:114:B:LEU:H	1:114:B:LEU:HB3	7	0.37
(1,1906)	1:95:B:LYS:H	1:95:B:LYS:HB2	5	0.37
(1,1654)	1:68:B:VAL:HG11	1:102:B:LYS:HE2	5	0.37
(1,1654)	1:68:B:VAL:HG12	1:102:B:LYS:HE2	5	0.37
(1,1654)	1:68:B:VAL:HG13	1:102:B:LYS:HE2	5	0.37
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG11	12	0.37
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG12	12	0.37
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG13	12	0.37
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB1	11	0.37
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB2	11	0.37
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB3	11	0.37
(1,1419)	1:39:B:LEU:H	1:39:B:LEU:HB2	7	0.37
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG12	10	0.37
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG13	10	0.37
(1,1283)	1:20:B:PHE:HA	1:22:B:GLU:H	8	0.37
(1,1187)	1:159:A:LYS:H	1:159:A:LYS:HB2	3	0.37
(1,1173)	1:156:A:LEU:H	1:156:A:LEU:HB2	8	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD11	1	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD12	1	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD13	1	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD11	3	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD12	3	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD13	3	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD11	4	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD12	4	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD13	4	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD11	7	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD12	7	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD13	7	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD11	8	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD12	8	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD13	8	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD11	9	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD12	9	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD13	9	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD11	10	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD12	10	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD13	10	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD11	11	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD12	11	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD13	11	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD11	12	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD12	12	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD13	12	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD11	13	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD12	13	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD13	13	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD11	14	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD12	14	0.37
(1,1137)	1:152:A:LEU:HG	1:152:A:LEU:HD13	14	0.37
(1,1095)	1:148:A:GLU:H	1:148:A:GLU:HB2	2	0.37
(1,1095)	1:148:A:GLU:H	1:148:A:GLU:HB2	5	0.37
(1,1051)	1:144:A:ASN:H	1:144:A:ASN:HB2	13	0.37
(1,1042)	1:143:A:LYS:H	1:143:A:LYS:HG2	10	0.37
(1,946)	1:134:A:LYS:H	1:134:A:LYS:HG2	15	0.37
(1,944)	1:134:A:LYS:H	1:134:A:LYS:HB2	14	0.37
(1,925)	1:129:A:GLU:H	1:129:A:GLU:HB3	10	0.37
(1,813)	1:105:A:MET:H	1:105:A:MET:HG2	12	0.37
(1,781)	1:102:A:LYS:H	1:102:A:LYS:HB2	13	0.37
(1,728)	1:96:A:GLU:H	1:96:A:GLU:HB2	12	0.37
(1,728)	1:96:A:GLU:H	1:96:A:GLU:HB2	14	0.37
(1,647)	1:87:A:THR:H	1:87:A:THR:HB	6	0.37
(1,642)	1:85:A:TYR:HB3	1:86:A:GLY:H	11	0.37
(1,593)	1:79:A:VAL:HG11	1:80:A:ALA:H	12	0.37
(1,593)	1:79:A:VAL:HG12	1:80:A:ALA:H	12	0.37
(1,593)	1:79:A:VAL:HG13	1:80:A:ALA:H	12	0.37
(1,539)	1:75:A:LEU:HD21	1:95:A:LYS:HG2	10	0.37
(1,539)	1:75:A:LEU:HD22	1:95:A:LYS:HG2	10	0.37
(1,539)	1:75:A:LEU:HD23	1:95:A:LYS:HG2	10	0.37
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG11	14	0.37
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG12	14	0.37
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG13	14	0.37
(1,439)	1:66:A:TRP:H	1:66:A:TRP:HB2	3	0.37
(1,430)	1:64:A:PHE:H	1:64:A:PHE:HB2	15	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB1	1	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB2	1	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB3	1	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB1	2	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB2	2	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB3	2	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB1	3	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB2	3	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB3	3	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB1	5	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB2	5	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB3	5	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB1	6	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB2	6	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB3	6	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB1	7	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB2	7	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB3	7	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB1	8	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB2	8	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB3	8	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB1	9	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB2	9	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB3	9	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB1	12	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB2	12	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB3	12	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB1	14	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB2	14	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB3	14	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB1	15	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB2	15	0.37
(1,420)	1:60:A:ALA:HA	1:60:A:ALA:HB3	15	0.37
(1,367)	1:52:A:VAL:HB	1:53:A:ARG:H	9	0.37
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG11	4	0.37
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG12	4	0.37
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG13	4	0.37
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG11	8	0.37
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG12	8	0.37
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG13	8	0.37
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG11	9	0.37
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG12	9	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG13	9	0.37
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG11	11	0.37
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG12	11	0.37
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG13	11	0.37
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG11	13	0.37
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG12	13	0.37
(1,366)	1:52:A:VAL:HB	1:52:A:VAL:HG13	13	0.37
(1,361)	1:51:A:ASN:HB2	1:52:A:VAL:H	5	0.37
(1,250)	1:40:A:LEU:HD11	1:145:A:LEU:HB3	3	0.37
(1,250)	1:40:A:LEU:HD12	1:145:A:LEU:HB3	3	0.37
(1,250)	1:40:A:LEU:HD13	1:145:A:LEU:HB3	3	0.37
(1,228)	1:39:A:LEU:H	1:39:A:LEU:HB3	9	0.37
(1,221)	1:38:A:CYS:H	1:38:A:CYS:HB3	9	0.37
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG12	6	0.37
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG13	6	0.37
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG21	15	0.37
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG22	15	0.37
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG23	15	0.37
(1,55)	1:18:A:MET:HE1	1:48:A:ALA:HA	15	0.37
(1,55)	1:18:A:MET:HE2	1:48:A:ALA:HA	15	0.37
(1,55)	1:18:A:MET:HE3	1:48:A:ALA:HA	15	0.37
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD11	3	0.37
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD12	3	0.37
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD13	3	0.37
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD11	7	0.37
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD12	7	0.37
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD13	7	0.37
(1,6)	1:13:A:ARG:H	1:13:A:ARG:HB2	3	0.37
(1,2493)	1:150:A:SER:HB2	1:90:B:LYS:H	13	0.36
(1,2492)	1:90:A:LYS:H	1:150:B:SER:HB3	5	0.36
(1,2471)	1:147:A:LYS:HG3	1:93:B:LYS:H	4	0.36
(1,2319)	1:151:B:ASP:H	1:151:B:ASP:HB2	13	0.36
(1,2230)	1:143:B:LYS:H	1:143:B:LYS:HB2	10	0.36
(1,2181)	1:138:B:ASN:H	1:138:B:ASN:HB2	8	0.36
(1,2181)	1:138:B:ASN:H	1:138:B:ASN:HB2	10	0.36
(1,2163)	1:135:B:THR:HG21	1:51:B:ASN:HB2	2	0.36
(1,2163)	1:135:B:THR:HG22	1:51:B:ASN:HB2	2	0.36
(1,2163)	1:135:B:THR:HG23	1:51:B:ASN:HB2	2	0.36
(1,2116)	1:129:B:GLU:H	1:129:B:GLU:HB2	12	0.36
(1,2099)	1:126:B:LYS:H	1:126:B:LYS:HB2	12	0.36
(1,2068)	1:122:B:GLU:H	1:122:B:GLU:HB2	2	0.36
(1,2055)	1:120:B:GLU:H	1:120:B:GLU:HB2	10	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2029)	1:114:B:LEU:H	1:114:B:LEU:HG	11	0.36
(1,1971)	1:102:B:LYS:H	1:102:B:LYS:HB2	2	0.36
(1,1971)	1:102:B:LYS:H	1:102:B:LYS:HB2	14	0.36
(1,1853)	1:90:B:LYS:H	1:90:B:LYS:HB2	10	0.36
(1,1783)	1:79:B:VAL:HG11	1:80:B:ALA:H	9	0.36
(1,1783)	1:79:B:VAL:HG12	1:80:B:ALA:H	9	0.36
(1,1783)	1:79:B:VAL:HG13	1:80:B:ALA:H	9	0.36
(1,1783)	1:79:B:VAL:HG11	1:80:B:ALA:H	11	0.36
(1,1783)	1:79:B:VAL:HG12	1:80:B:ALA:H	11	0.36
(1,1783)	1:79:B:VAL:HG13	1:80:B:ALA:H	11	0.36
(1,1783)	1:79:B:VAL:HG11	1:80:B:ALA:H	14	0.36
(1,1783)	1:79:B:VAL:HG12	1:80:B:ALA:H	14	0.36
(1,1783)	1:79:B:VAL:HG13	1:80:B:ALA:H	14	0.36
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG11	4	0.36
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG12	4	0.36
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG13	4	0.36
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG11	6	0.36
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG12	6	0.36
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG13	6	0.36
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG11	8	0.36
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG12	8	0.36
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG13	8	0.36
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG11	9	0.36
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG12	9	0.36
(1,1556)	1:52:B:VAL:HB	1:52:B:VAL:HG13	9	0.36
(1,1419)	1:39:B:LEU:H	1:39:B:LEU:HB2	15	0.36
(1,1354)	1:25:B:ILE:HG21	1:83:B:PHE:HE2	7	0.36
(1,1354)	1:25:B:ILE:HG22	1:83:B:PHE:HE2	7	0.36
(1,1354)	1:25:B:ILE:HG23	1:83:B:PHE:HE2	7	0.36
(1,1350)	1:25:B:ILE:HG21	1:41:B:THR:HA	4	0.36
(1,1350)	1:25:B:ILE:HG22	1:41:B:THR:HA	4	0.36
(1,1350)	1:25:B:ILE:HG23	1:41:B:THR:HA	4	0.36
(1,1319)	1:24:B:ILE:HA	1:26:B:TYR:H	8	0.36
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG21	8	0.36
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG22	8	0.36
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG23	8	0.36
(1,1283)	1:20:B:PHE:HA	1:22:B:GLU:H	15	0.36
(1,1157)	1:154:A:ASN:H	1:154:A:ASN:HB2	11	0.36
(1,1147)	1:153:A:GLU:H	1:153:A:GLU:HB3	6	0.36
(1,1138)	1:152:A:LEU:H	1:152:A:LEU:HD21	2	0.36
(1,1138)	1:152:A:LEU:H	1:152:A:LEU:HD22	2	0.36
(1,1138)	1:152:A:LEU:H	1:152:A:LEU:HD23	2	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1135)	1:152:A:LEU:H	1:152:A:LEU:HB3	3	0.36
(1,1095)	1:148:A:GLU:H	1:148:A:GLU:HB2	1	0.36
(1,1083)	1:147:A:LYS:H	1:147:A:LYS:HG3	12	0.36
(1,1009)	1:140:A:GLU:H	1:140:A:GLU:HG3	9	0.36
(1,999)	1:139:A:GLU:H	1:139:A:GLU:HG3	3	0.36
(1,999)	1:139:A:GLU:H	1:139:A:GLU:HG3	7	0.36
(1,991)	1:138:A:ASN:H	1:138:A:ASN:HB2	4	0.36
(1,937)	1:132:A:ARG:H	1:133:A:MET:H	14	0.36
(1,878)	1:122:A:GLU:H	1:122:A:GLU:HB2	13	0.36
(1,846)	1:117:A:ARG:H	1:117:A:ARG:HB2	3	0.36
(1,846)	1:117:A:ARG:H	1:117:A:ARG:HB2	15	0.36
(1,840)	1:114:A:LEU:H	1:115:A:GLU:H	3	0.36
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB2	8	0.36
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB3	8	0.36
(1,795)	1:103:A:ALA:HB1	1:15:A:LEU:HB3	10	0.36
(1,795)	1:103:A:ALA:HB2	1:15:A:LEU:HB3	10	0.36
(1,795)	1:103:A:ALA:HB3	1:15:A:LEU:HB3	10	0.36
(1,663)	1:90:A:LYS:H	1:90:A:LYS:HB2	9	0.36
(1,663)	1:90:A:LYS:H	1:90:A:LYS:HB2	15	0.36
(1,660)	1:89:A:GLY:HA3	1:90:A:LYS:H	4	0.36
(1,649)	1:87:A:THR:H	1:88:A:SER:H	5	0.36
(1,641)	1:85:A:TYR:H	1:86:A:GLY:H	3	0.36
(1,641)	1:85:A:TYR:H	1:86:A:GLY:H	15	0.36
(1,639)	1:85:A:TYR:H	1:85:A:TYR:HB2	4	0.36
(1,639)	1:85:A:TYR:H	1:85:A:TYR:HB2	13	0.36
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD11	10	0.36
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD12	10	0.36
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD13	10	0.36
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG11	2	0.36
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG12	2	0.36
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG13	2	0.36
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG11	11	0.36
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG12	11	0.36
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG13	11	0.36
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG11	14	0.36
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG12	14	0.36
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG13	14	0.36
(1,524)	1:75:A:LEU:HD21	1:76:A:VAL:H	15	0.36
(1,524)	1:75:A:LEU:HD22	1:76:A:VAL:H	15	0.36
(1,524)	1:75:A:LEU:HD23	1:76:A:VAL:H	15	0.36
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG11	2	0.36
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG12	2	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG13	2	0.36
(1,439)	1:66:A:TRP:H	1:66:A:TRP:HB2	6	0.36
(1,439)	1:66:A:TRP:H	1:66:A:TRP:HB2	11	0.36
(1,430)	1:64:A:PHE:H	1:64:A:PHE:HB2	11	0.36
(1,430)	1:64:A:PHE:H	1:64:A:PHE:HB2	14	0.36
(1,397)	1:55:A:GLY:HA3	1:56:A:ASN:H	6	0.36
(1,361)	1:51:A:ASN:HB2	1:52:A:VAL:H	7	0.36
(1,360)	1:51:A:ASN:HB3	1:52:A:VAL:H	15	0.36
(1,355)	1:51:A:ASN:H	1:51:A:ASN:HB2	15	0.36
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB2	8	0.36
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB3	8	0.36
(1,243)	1:40:A:LEU:HD11	1:24:A:ILE:HB	10	0.36
(1,243)	1:40:A:LEU:HD12	1:24:A:ILE:HB	10	0.36
(1,243)	1:40:A:LEU:HD13	1:24:A:ILE:HB	10	0.36
(1,164)	1:25:A:ILE:HG21	1:83:A:PHE:HE2	1	0.36
(1,164)	1:25:A:ILE:HG22	1:83:A:PHE:HE2	1	0.36
(1,164)	1:25:A:ILE:HG23	1:83:A:PHE:HE2	1	0.36
(1,129)	1:24:A:ILE:HA	1:26:A:TYR:H	7	0.36
(1,93)	1:20:A:PHE:HA	1:22:A:GLU:H	13	0.36
(1,79)	1:19:A:THR:HG21	1:99:A:LEU:HB3	11	0.36
(1,79)	1:19:A:THR:HG22	1:99:A:LEU:HB3	11	0.36
(1,79)	1:19:A:THR:HG23	1:99:A:LEU:HB3	11	0.36
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB1	2	0.36
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB2	2	0.36
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB3	2	0.36
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB1	2	0.36
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB2	2	0.36
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB3	2	0.36
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB1	2	0.36
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB2	2	0.36
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB3	2	0.36
(1,2489)	1:147:A:LYS:HE2	1:94:B:ALA:HB1	3	0.35
(1,2489)	1:147:A:LYS:HE2	1:94:B:ALA:HB2	3	0.35
(1,2489)	1:147:A:LYS:HE2	1:94:B:ALA:HB3	3	0.35
(1,2469)	1:147:A:LYS:HB2	1:93:B:LYS:H	11	0.35
(1,2453)	1:143:A:LYS:HD2	1:96:B:GLU:H	13	0.35
(1,2434)	1:144:A:ASN:H	1:97:B:GLU:HG3	7	0.35
(1,2428)	1:147:A:LYS:HE2	1:94:B:ALA:HB1	3	0.35
(1,2428)	1:147:A:LYS:HE2	1:94:B:ALA:HB2	3	0.35
(1,2428)	1:147:A:LYS:HE2	1:94:B:ALA:HB3	3	0.35
(1,2319)	1:151:B:ASP:H	1:151:B:ASP:HB2	4	0.35
(1,2319)	1:151:B:ASP:H	1:151:B:ASP:HB2	12	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2308)	1:149:B:LEU:HD21	1:28:B:CYS:H	6	0.35
(1,2308)	1:149:B:LEU:HD22	1:28:B:CYS:H	6	0.35
(1,2308)	1:149:B:LEU:HD23	1:28:B:CYS:H	6	0.35
(1,2285)	1:148:B:GLU:H	1:148:B:GLU:HB2	14	0.35
(1,2264)	1:146:B:GLU:H	1:146:B:GLU:HB2	5	0.35
(1,2264)	1:146:B:GLU:H	1:146:B:GLU:HB2	6	0.35
(1,2241)	1:144:B:ASN:H	1:144:B:ASN:HB2	3	0.35
(1,2181)	1:138:B:ASN:H	1:138:B:ASN:HB2	9	0.35
(1,2033)	1:116:B:ARG:H	1:116:B:ARG:HB2	14	0.35
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB2	13	0.35
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB3	13	0.35
(1,1620)	1:64:B:PHE:H	1:64:B:PHE:HB2	2	0.35
(1,1620)	1:64:B:PHE:H	1:64:B:PHE:HB2	10	0.35
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB1	2	0.35
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB2	2	0.35
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB3	2	0.35
(1,1573)	1:53:B:ARG:HA	1:56:B:ASN:H	7	0.35
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB1	12	0.35
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB2	12	0.35
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB3	12	0.35
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB1	14	0.35
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB2	14	0.35
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB3	14	0.35
(1,1419)	1:39:B:LEU:H	1:39:B:LEU:HB2	2	0.35
(1,1419)	1:39:B:LEU:H	1:39:B:LEU:HB2	3	0.35
(1,1419)	1:39:B:LEU:H	1:39:B:LEU:HB2	4	0.35
(1,1419)	1:39:B:LEU:H	1:39:B:LEU:HB2	6	0.35
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG12	4	0.35
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG13	4	0.35
(1,1319)	1:24:B:ILE:HA	1:26:B:TYR:H	15	0.35
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG12	13	0.35
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG13	13	0.35
(1,1283)	1:20:B:PHE:HA	1:22:B:GLU:H	4	0.35
(1,1283)	1:20:B:PHE:HA	1:22:B:GLU:H	13	0.35
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD21	15	0.35
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD22	15	0.35
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD23	15	0.35
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD21	15	0.35
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD22	15	0.35
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD23	15	0.35
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD21	15	0.35
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD22	15	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD23	15	0.35
(1,1193)	1:12:B:GLU:H	1:12:B:GLU:HB2	6	0.35
(1,1173)	1:156:A:LEU:H	1:156:A:LEU:HB2	3	0.35
(1,1173)	1:156:A:LEU:H	1:156:A:LEU:HB2	7	0.35
(1,1095)	1:148:A:GLU:H	1:148:A:GLU:HB2	9	0.35
(1,1059)	1:145:A:LEU:H	1:145:A:LEU:HG	14	0.35
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG21	10	0.35
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG22	10	0.35
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG23	10	0.35
(1,1017)	1:141:A:GLU:H	1:141:A:GLU:HG3	14	0.35
(1,998)	1:139:A:GLU:H	1:139:A:GLU:HB2	1	0.35
(1,957)	1:135:A:THR:H	1:135:A:THR:HB	7	0.35
(1,957)	1:135:A:THR:H	1:135:A:THR:HB	11	0.35
(1,957)	1:135:A:THR:H	1:135:A:THR:HB	12	0.35
(1,930)	1:130:A:LEU:H	1:130:A:LEU:HB2	12	0.35
(1,878)	1:122:A:GLU:H	1:122:A:GLU:HB2	15	0.35
(1,843)	1:116:A:ARG:H	1:116:A:ARG:HB2	5	0.35
(1,740)	1:97:A:GLU:H	1:97:A:GLU:HG3	13	0.35
(1,728)	1:96:A:GLU:H	1:96:A:GLU:HB2	11	0.35
(1,660)	1:89:A:GLY:HA3	1:90:A:LYS:H	5	0.35
(1,593)	1:79:A:VAL:HG11	1:80:A:ALA:H	7	0.35
(1,593)	1:79:A:VAL:HG12	1:80:A:ALA:H	7	0.35
(1,593)	1:79:A:VAL:HG13	1:80:A:ALA:H	7	0.35
(1,469)	1:69:A:GLY:HA2	1:72:A:ALA:H	8	0.35
(1,439)	1:66:A:TRP:H	1:66:A:TRP:HB2	15	0.35
(1,345)	1:49:A:ALA:HB1	1:50:A:GLN:H	1	0.35
(1,345)	1:49:A:ALA:HB2	1:50:A:GLN:H	1	0.35
(1,345)	1:49:A:ALA:HB3	1:50:A:GLN:H	1	0.35
(1,345)	1:49:A:ALA:HB1	1:50:A:GLN:H	7	0.35
(1,345)	1:49:A:ALA:HB2	1:50:A:GLN:H	7	0.35
(1,345)	1:49:A:ALA:HB3	1:50:A:GLN:H	7	0.35
(1,335)	1:48:A:ALA:HB1	1:18:A:MET:HG2	5	0.35
(1,335)	1:48:A:ALA:HB2	1:18:A:MET:HG2	5	0.35
(1,335)	1:48:A:ALA:HB3	1:18:A:MET:HG2	5	0.35
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB2	5	0.35
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB3	5	0.35
(1,237)	1:40:A:LEU:H	1:40:A:LEU:HB2	11	0.35
(1,221)	1:38:A:CYS:H	1:38:A:CYS:HB3	2	0.35
(1,163)	1:25:A:ILE:HG21	1:83:A:PHE:HZ	11	0.35
(1,163)	1:25:A:ILE:HG22	1:83:A:PHE:HZ	11	0.35
(1,163)	1:25:A:ILE:HG23	1:83:A:PHE:HZ	11	0.35
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG21	7	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG22	7	0.35
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG23	7	0.35
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG21	10	0.35
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG22	10	0.35
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG23	10	0.35
(1,116)	1:23:A:ARG:H	1:23:A:ARG:HG2	15	0.35
(1,42)	1:17:A:ASP:HB3	1:18:A:MET:H	6	0.35
(1,38)	1:17:A:ASP:H	1:17:A:ASP:HB2	10	0.35
(1,2492)	1:90:A:LYS:H	1:150:B:SER:HB3	3	0.34
(1,2491)	1:150:A:SER:HB3	1:90:B:LYS:H	11	0.34
(1,2467)	1:147:A:LYS:HB3	1:93:B:LYS:H	2	0.34
(1,2460)	1:97:A:GLU:H	1:143:B:LYS:HD3	8	0.34
(1,2452)	1:137:A:GLU:H	1:104:B:LYS:HE2	12	0.34
(1,2319)	1:151:B:ASP:H	1:151:B:ASP:HB2	2	0.34
(1,2285)	1:148:B:GLU:H	1:148:B:GLU:HB2	5	0.34
(1,2285)	1:148:B:GLU:H	1:148:B:GLU:HB2	11	0.34
(1,2285)	1:148:B:GLU:H	1:148:B:GLU:HB2	13	0.34
(1,2285)	1:148:B:GLU:H	1:148:B:GLU:HB2	15	0.34
(1,2158)	1:135:B:THR:HG21	1:18:B:MET:H	6	0.34
(1,2158)	1:135:B:THR:HG22	1:18:B:MET:H	6	0.34
(1,2158)	1:135:B:THR:HG23	1:18:B:MET:H	6	0.34
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB1	12	0.34
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB2	12	0.34
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB3	12	0.34
(1,2099)	1:126:B:LYS:H	1:126:B:LYS:HB2	10	0.34
(1,2055)	1:120:B:GLU:H	1:120:B:GLU:HB2	8	0.34
(1,2055)	1:120:B:GLU:H	1:120:B:GLU:HB2	15	0.34
(1,2011)	1:108:B:LYS:H	1:108:B:LYS:HB2	15	0.34
(1,2002)	1:105:B:MET:H	1:105:B:MET:HB3	5	0.34
(1,1853)	1:90:B:LYS:H	1:90:B:LYS:HB2	3	0.34
(1,1829)	1:85:B:TYR:H	1:85:B:TYR:HB2	15	0.34
(1,1826)	1:84:B:ILE:HG21	1:85:B:TYR:H	5	0.34
(1,1826)	1:84:B:ILE:HG22	1:85:B:TYR:H	5	0.34
(1,1826)	1:84:B:ILE:HG23	1:85:B:TYR:H	5	0.34
(1,1783)	1:79:B:VAL:HG11	1:80:B:ALA:H	5	0.34
(1,1783)	1:79:B:VAL:HG12	1:80:B:ALA:H	5	0.34
(1,1783)	1:79:B:VAL:HG13	1:80:B:ALA:H	5	0.34
(1,1783)	1:79:B:VAL:HG11	1:80:B:ALA:H	13	0.34
(1,1783)	1:79:B:VAL:HG12	1:80:B:ALA:H	13	0.34
(1,1783)	1:79:B:VAL:HG13	1:80:B:ALA:H	13	0.34
(1,1650)	1:68:B:VAL:HG11	1:106:B:ARG:HD2	12	0.34
(1,1650)	1:68:B:VAL:HG12	1:106:B:ARG:HD2	12	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1650)	1:68:B:VAL:HG13	1:106:B:ARG:HD2	12	0.34
(1,1647)	1:68:B:VAL:HG11	1:106:B:ARG:HG3	15	0.34
(1,1647)	1:68:B:VAL:HG12	1:106:B:ARG:HG3	15	0.34
(1,1647)	1:68:B:VAL:HG13	1:106:B:ARG:HG3	15	0.34
(1,1620)	1:64:B:PHE:H	1:64:B:PHE:HB2	6	0.34
(1,1620)	1:64:B:PHE:H	1:64:B:PHE:HB2	14	0.34
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB1	6	0.34
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB2	6	0.34
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB3	6	0.34
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB1	7	0.34
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB2	7	0.34
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB3	7	0.34
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB1	8	0.34
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB2	8	0.34
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB3	8	0.34
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB1	12	0.34
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB2	12	0.34
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB3	12	0.34
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB1	15	0.34
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB2	15	0.34
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB3	15	0.34
(1,1599)	1:58:B:TRP:H	1:58:B:TRP:HB3	15	0.34
(1,1283)	1:20:B:PHE:HA	1:22:B:GLU:H	6	0.34
(1,1187)	1:159:A:LYS:H	1:159:A:LYS:HB2	11	0.34
(1,1184)	1:158:A:LYS:H	1:158:A:LYS:HB2	15	0.34
(1,1095)	1:148:A:GLU:H	1:148:A:GLU:HB2	12	0.34
(1,1058)	1:145:A:LEU:H	1:145:A:LEU:HB2	1	0.34
(1,1003)	1:139:A:GLU:H	1:142:A:ILE:H	4	0.34
(1,991)	1:138:A:ASN:H	1:138:A:ASN:HB2	15	0.34
(1,889)	1:124:A:ARG:H	1:124:A:ARG:HB3	5	0.34
(1,878)	1:122:A:GLU:H	1:122:A:GLU:HB2	10	0.34
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD11	1	0.34
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD12	1	0.34
(1,825)	1:109:A:LEU:H	1:109:A:LEU:HD13	1	0.34
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB2	3	0.34
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB3	3	0.34
(1,761)	1:99:A:LEU:HD21	1:19:A:THR:HA	6	0.34
(1,761)	1:99:A:LEU:HD22	1:19:A:THR:HA	6	0.34
(1,761)	1:99:A:LEU:HD23	1:19:A:THR:HA	6	0.34
(1,739)	1:97:A:GLU:H	1:97:A:GLU:HG2	2	0.34
(1,729)	1:96:A:GLU:H	1:96:A:GLU:HG3	1	0.34
(1,728)	1:96:A:GLU:H	1:96:A:GLU:HB2	10	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,699)	1:93:A:LYS:H	1:93:A:LYS:HG2	7	0.34
(1,660)	1:89:A:GLY:HA3	1:90:A:LYS:H	15	0.34
(1,648)	1:87:A:THR:H	1:87:A:THR:HG21	7	0.34
(1,648)	1:87:A:THR:H	1:87:A:THR:HG22	7	0.34
(1,648)	1:87:A:THR:H	1:87:A:THR:HG23	7	0.34
(1,641)	1:85:A:TYR:H	1:86:A:GLY:H	8	0.34
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD21	5	0.34
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD22	5	0.34
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD23	5	0.34
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD21	5	0.34
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD22	5	0.34
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD23	5	0.34
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD21	5	0.34
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD22	5	0.34
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD23	5	0.34
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG11	3	0.34
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG12	3	0.34
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG13	3	0.34
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD11	2	0.34
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD12	2	0.34
(1,545)	1:75:A:LEU:HD21	1:99:A:LEU:HD13	2	0.34
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD11	2	0.34
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD12	2	0.34
(1,545)	1:75:A:LEU:HD22	1:99:A:LEU:HD13	2	0.34
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD11	2	0.34
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD12	2	0.34
(1,545)	1:75:A:LEU:HD23	1:99:A:LEU:HD13	2	0.34
(1,538)	1:75:A:LEU:HD21	1:95:A:LYS:HG3	6	0.34
(1,538)	1:75:A:LEU:HD22	1:95:A:LYS:HG3	6	0.34
(1,538)	1:75:A:LEU:HD23	1:95:A:LYS:HG3	6	0.34
(1,533)	1:75:A:LEU:HD11	1:95:A:LYS:HE2	2	0.34
(1,533)	1:75:A:LEU:HD12	1:95:A:LYS:HE2	2	0.34
(1,533)	1:75:A:LEU:HD13	1:95:A:LYS:HE2	2	0.34
(1,506)	1:74:A:THR:H	1:74:A:THR:HG21	5	0.34
(1,506)	1:74:A:THR:H	1:74:A:THR:HG22	5	0.34
(1,506)	1:74:A:THR:H	1:74:A:THR:HG23	5	0.34
(1,506)	1:74:A:THR:H	1:74:A:THR:HG21	7	0.34
(1,506)	1:74:A:THR:H	1:74:A:THR:HG22	7	0.34
(1,506)	1:74:A:THR:H	1:74:A:THR:HG23	7	0.34
(1,439)	1:66:A:TRP:H	1:66:A:TRP:HB2	10	0.34
(1,439)	1:66:A:TRP:H	1:66:A:TRP:HB2	14	0.34
(1,373)	1:52:A:VAL:HG11	1:69:A:GLY:HA3	10	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,373)	1:52:A:VAL:HG12	1:69:A:GLY:HA3	10	0.34
(1,373)	1:52:A:VAL:HG13	1:69:A:GLY:HA3	10	0.34
(1,367)	1:52:A:VAL:HB	1:53:A:ARG:H	8	0.34
(1,361)	1:51:A:ASN:HB2	1:52:A:VAL:H	3	0.34
(1,355)	1:51:A:ASN:H	1:51:A:ASN:HB2	14	0.34
(1,335)	1:48:A:ALA:HB1	1:18:A:MET:HG2	6	0.34
(1,335)	1:48:A:ALA:HB2	1:18:A:MET:HG2	6	0.34
(1,335)	1:48:A:ALA:HB3	1:18:A:MET:HG2	6	0.34
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB2	3	0.34
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB3	3	0.34
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB2	4	0.34
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB3	4	0.34
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB2	10	0.34
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB3	10	0.34
(1,228)	1:39:A:LEU:H	1:39:A:LEU:HB3	13	0.34
(1,157)	1:25:A:ILE:HD11	1:79:A:VAL:HG21	11	0.34
(1,157)	1:25:A:ILE:HD11	1:79:A:VAL:HG22	11	0.34
(1,157)	1:25:A:ILE:HD11	1:79:A:VAL:HG23	11	0.34
(1,157)	1:25:A:ILE:HD12	1:79:A:VAL:HG21	11	0.34
(1,157)	1:25:A:ILE:HD12	1:79:A:VAL:HG22	11	0.34
(1,157)	1:25:A:ILE:HD12	1:79:A:VAL:HG23	11	0.34
(1,157)	1:25:A:ILE:HD13	1:79:A:VAL:HG21	11	0.34
(1,157)	1:25:A:ILE:HD13	1:79:A:VAL:HG22	11	0.34
(1,157)	1:25:A:ILE:HD13	1:79:A:VAL:HG23	11	0.34
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD11	9	0.34
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD12	9	0.34
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD13	9	0.34
(1,142)	1:24:A:ILE:HD11	1:146:A:GLU:HG2	11	0.34
(1,142)	1:24:A:ILE:HD12	1:146:A:GLU:HG2	11	0.34
(1,142)	1:24:A:ILE:HD13	1:146:A:GLU:HG2	11	0.34
(1,66)	1:18:A:MET:HE1	1:135:A:THR:HA	3	0.34
(1,66)	1:18:A:MET:HE2	1:135:A:THR:HA	3	0.34
(1,66)	1:18:A:MET:HE3	1:135:A:THR:HA	3	0.34
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB1	7	0.34
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB2	7	0.34
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB3	7	0.34
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB1	7	0.34
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB2	7	0.34
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB3	7	0.34
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB1	7	0.34
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB2	7	0.34
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB3	7	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6)	1:13:A:ARG:H	1:13:A:ARG:HB2	13	0.34
(1,2493)	1:150:A:SER:HB2	1:90:B:LYS:H	14	0.33
(1,2436)	1:144:A:ASN:H	1:97:B:GLU:HG2	6	0.33
(1,2347)	1:154:B:ASN:H	1:154:B:ASN:HB2	6	0.33
(1,2347)	1:154:B:ASN:H	1:154:B:ASN:HB2	8	0.33
(1,2319)	1:151:B:ASP:H	1:151:B:ASP:HB2	6	0.33
(1,2319)	1:151:B:ASP:H	1:151:B:ASP:HB2	9	0.33
(1,2319)	1:151:B:ASP:H	1:151:B:ASP:HB2	11	0.33
(1,2285)	1:148:B:GLU:H	1:148:B:GLU:HB2	3	0.33
(1,2263)	1:146:B:GLU:H	1:146:B:GLU:HB3	14	0.33
(1,2249)	1:145:B:LEU:H	1:145:B:LEU:HG	3	0.33
(1,2181)	1:138:B:ASN:H	1:138:B:ASN:HB2	7	0.33
(1,2181)	1:138:B:ASN:H	1:138:B:ASN:HB2	11	0.33
(1,2131)	1:133:B:MET:H	1:133:B:MET:HE1	6	0.33
(1,2131)	1:133:B:MET:H	1:133:B:MET:HE2	6	0.33
(1,2131)	1:133:B:MET:H	1:133:B:MET:HE3	6	0.33
(1,2120)	1:130:B:LEU:H	1:130:B:LEU:HB2	15	0.33
(1,2116)	1:129:B:GLU:H	1:129:B:GLU:HB2	10	0.33
(1,2099)	1:126:B:LYS:H	1:126:B:LYS:HB2	2	0.33
(1,2055)	1:120:B:GLU:H	1:120:B:GLU:HB2	2	0.33
(1,2002)	1:105:B:MET:H	1:105:B:MET:HB3	11	0.33
(1,1971)	1:102:B:LYS:H	1:102:B:LYS:HB2	3	0.33
(1,1962)	1:101:B:GLU:H	1:101:B:GLU:HB2	4	0.33
(1,1853)	1:90:B:LYS:H	1:90:B:LYS:HB2	4	0.33
(1,1853)	1:90:B:LYS:H	1:90:B:LYS:HB2	5	0.33
(1,1783)	1:79:B:VAL:HG11	1:80:B:ALA:H	3	0.33
(1,1783)	1:79:B:VAL:HG12	1:80:B:ALA:H	3	0.33
(1,1783)	1:79:B:VAL:HG13	1:80:B:ALA:H	3	0.33
(1,1783)	1:79:B:VAL:HG11	1:80:B:ALA:H	7	0.33
(1,1783)	1:79:B:VAL:HG12	1:80:B:ALA:H	7	0.33
(1,1783)	1:79:B:VAL:HG13	1:80:B:ALA:H	7	0.33
(1,1783)	1:79:B:VAL:HG11	1:80:B:ALA:H	15	0.33
(1,1783)	1:79:B:VAL:HG12	1:80:B:ALA:H	15	0.33
(1,1783)	1:79:B:VAL:HG13	1:80:B:ALA:H	15	0.33
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG21	3	0.33
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG22	3	0.33
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG23	3	0.33
(1,1620)	1:64:B:PHE:H	1:64:B:PHE:HB2	3	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB1	1	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB2	1	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB3	1	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB1	3	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB2	3	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB3	3	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB1	5	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB2	5	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB3	5	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB1	9	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB2	9	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB3	9	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB1	10	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB2	10	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB3	10	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB1	11	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB2	11	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB3	11	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB1	14	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB2	14	0.33
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB3	14	0.33
(1,1545)	1:51:B:ASN:H	1:51:B:ASN:HB2	14	0.33
(1,1525)	1:48:B:ALA:HB1	1:18:B:MET:HG2	15	0.33
(1,1525)	1:48:B:ALA:HB2	1:18:B:MET:HG2	15	0.33
(1,1525)	1:48:B:ALA:HB3	1:18:B:MET:HG2	15	0.33
(1,1522)	1:48:B:ALA:HB1	1:18:B:MET:HB3	5	0.33
(1,1522)	1:48:B:ALA:HB2	1:18:B:MET:HB3	5	0.33
(1,1522)	1:48:B:ALA:HB3	1:18:B:MET:HB3	5	0.33
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB1	1	0.33
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB2	1	0.33
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB3	1	0.33
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD11	5	0.33
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD12	5	0.33
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD13	5	0.33
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD11	5	0.33
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD12	5	0.33
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD13	5	0.33
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD11	5	0.33
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD12	5	0.33
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD13	5	0.33
(1,1419)	1:39:B:LEU:H	1:39:B:LEU:HB2	5	0.33
(1,1319)	1:24:B:ILE:HA	1:26:B:TYR:H	10	0.33
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG12	9	0.33
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG13	9	0.33
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG12	15	0.33
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG13	15	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1215)	1:15:B:LEU:HD11	1:103:B:ALA:HA	4	0.33
(1,1215)	1:15:B:LEU:HD12	1:103:B:ALA:HA	4	0.33
(1,1215)	1:15:B:LEU:HD13	1:103:B:ALA:HA	4	0.33
(1,1139)	1:152:A:LEU:H	1:152:A:LEU:HD11	7	0.33
(1,1139)	1:152:A:LEU:H	1:152:A:LEU:HD12	7	0.33
(1,1139)	1:152:A:LEU:H	1:152:A:LEU:HD13	7	0.33
(1,1117)	1:149:A:LEU:HD21	1:27:A:HIS:HA	14	0.33
(1,1117)	1:149:A:LEU:HD22	1:27:A:HIS:HA	14	0.33
(1,1117)	1:149:A:LEU:HD23	1:27:A:HIS:HA	14	0.33
(1,991)	1:138:A:ASN:H	1:138:A:ASN:HB2	11	0.33
(1,957)	1:135:A:THR:H	1:135:A:THR:HB	1	0.33
(1,957)	1:135:A:THR:H	1:135:A:THR:HB	4	0.33
(1,944)	1:134:A:LYS:H	1:134:A:LYS:HB2	11	0.33
(1,944)	1:134:A:LYS:H	1:134:A:LYS:HB2	13	0.33
(1,926)	1:129:A:GLU:H	1:129:A:GLU:HB2	14	0.33
(1,916)	1:127:A:ARG:H	1:127:A:ARG:HB2	12	0.33
(1,908)	1:126:A:LYS:H	1:126:A:LYS:HB3	14	0.33
(1,878)	1:122:A:GLU:H	1:122:A:GLU:HB2	11	0.33
(1,865)	1:120:A:GLU:H	1:120:A:GLU:HB2	6	0.33
(1,865)	1:120:A:GLU:H	1:120:A:GLU:HB2	11	0.33
(1,846)	1:117:A:ARG:H	1:117:A:ARG:HB2	4	0.33
(1,843)	1:116:A:ARG:H	1:116:A:ARG:HB2	12	0.33
(1,838)	1:114:A:LEU:H	1:114:A:LEU:HB2	3	0.33
(1,781)	1:102:A:LYS:H	1:102:A:LYS:HB2	3	0.33
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD11	8	0.33
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD12	8	0.33
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD13	8	0.33
(1,728)	1:96:A:GLU:H	1:96:A:GLU:HB2	9	0.33
(1,693)	1:92:A:LEU:HD21	1:83:A:PHE:HA	4	0.33
(1,693)	1:92:A:LEU:HD22	1:83:A:PHE:HA	4	0.33
(1,693)	1:92:A:LEU:HD23	1:83:A:PHE:HA	4	0.33
(1,641)	1:85:A:TYR:H	1:86:A:GLY:H	9	0.33
(1,639)	1:85:A:TYR:H	1:85:A:TYR:HB2	6	0.33
(1,615)	1:82:A:SER:H	1:82:A:SER:HB3	4	0.33
(1,615)	1:82:A:SER:H	1:82:A:SER:HB3	6	0.33
(1,485)	1:71:A:GLN:HB2	1:72:A:ALA:H	6	0.33
(1,469)	1:69:A:GLY:HA2	1:72:A:ALA:H	13	0.33
(1,439)	1:66:A:TRP:H	1:66:A:TRP:HB2	1	0.33
(1,335)	1:48:A:ALA:HB1	1:18:A:MET:HG2	11	0.33
(1,335)	1:48:A:ALA:HB2	1:18:A:MET:HG2	11	0.33
(1,335)	1:48:A:ALA:HB3	1:18:A:MET:HG2	11	0.33
(1,237)	1:40:A:LEU:H	1:40:A:LEU:HB2	14	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,228)	1:39:A:LEU:H	1:39:A:LEU:HB3	1	0.33
(1,221)	1:38:A:CYS:H	1:38:A:CYS:HB3	3	0.33
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG21	2	0.33
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG22	2	0.33
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG23	2	0.33
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG12	5	0.33
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG13	5	0.33
(1,115)	1:23:A:ARG:H	1:23:A:ARG:HG3	2	0.33
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD21	2	0.33
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD22	2	0.33
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD23	2	0.33
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD21	2	0.33
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD22	2	0.33
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD23	2	0.33
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD21	2	0.33
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD22	2	0.33
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD23	2	0.33
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD11	5	0.33
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD12	5	0.33
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD13	5	0.33
(1,2491)	1:150:A:SER:HB3	1:90:B:LYS:H	4	0.32
(1,2442)	1:140:A:GLU:H	1:100:B:LYS:HD3	1	0.32
(1,2437)	1:100:A:LYS:HE3	1:140:B:GLU:H	13	0.32
(1,2403)	1:93:A:LYS:HB2	1:147:B:LYS:H	11	0.32
(1,2363)	1:156:B:LEU:H	1:156:B:LEU:HB2	10	0.32
(1,2287)	1:148:B:GLU:H	1:148:B:GLU:HG2	12	0.32
(1,2285)	1:148:B:GLU:H	1:148:B:GLU:HB2	7	0.32
(1,2249)	1:145:B:LEU:H	1:145:B:LEU:HG	10	0.32
(1,2230)	1:143:B:LYS:H	1:143:B:LYS:HB2	12	0.32
(1,2181)	1:138:B:ASN:H	1:138:B:ASN:HB2	4	0.32
(1,2181)	1:138:B:ASN:H	1:138:B:ASN:HB2	12	0.32
(1,2122)	1:130:B:LEU:H	1:131:B:ALA:H	10	0.32
(1,2099)	1:126:B:LYS:H	1:126:B:LYS:HB2	8	0.32
(1,2052)	1:119:B:GLU:HA	1:121:B:THR:H	5	0.32
(1,2033)	1:116:B:ARG:H	1:116:B:ARG:HB2	11	0.32
(1,1887)	1:92:B:LEU:HD21	1:26:B:TYR:HE1	10	0.32
(1,1887)	1:92:B:LEU:HD22	1:26:B:TYR:HE1	10	0.32
(1,1887)	1:92:B:LEU:HD23	1:26:B:TYR:HE1	10	0.32
(1,1885)	1:92:B:LEU:HD21	1:83:B:PHE:HE2	7	0.32
(1,1885)	1:92:B:LEU:HD22	1:83:B:PHE:HE2	7	0.32
(1,1885)	1:92:B:LEU:HD23	1:83:B:PHE:HE2	7	0.32
(1,1829)	1:85:B:TYR:H	1:85:B:TYR:HB2	6	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1826)	1:84:B:ILE:HG21	1:85:B:TYR:H	1	0.32
(1,1826)	1:84:B:ILE:HG22	1:85:B:TYR:H	1	0.32
(1,1826)	1:84:B:ILE:HG23	1:85:B:TYR:H	1	0.32
(1,1720)	1:75:B:LEU:HD11	1:95:B:LYS:HD3	15	0.32
(1,1720)	1:75:B:LEU:HD12	1:95:B:LYS:HD3	15	0.32
(1,1720)	1:75:B:LEU:HD13	1:95:B:LYS:HD3	15	0.32
(1,1653)	1:68:B:VAL:HG11	1:102:B:LYS:HE3	2	0.32
(1,1653)	1:68:B:VAL:HG12	1:102:B:LYS:HE3	2	0.32
(1,1653)	1:68:B:VAL:HG13	1:102:B:LYS:HE3	2	0.32
(1,1650)	1:68:B:VAL:HG11	1:106:B:ARG:HD2	9	0.32
(1,1650)	1:68:B:VAL:HG12	1:106:B:ARG:HD2	9	0.32
(1,1650)	1:68:B:VAL:HG13	1:106:B:ARG:HD2	9	0.32
(1,1620)	1:64:B:PHE:H	1:64:B:PHE:HB2	15	0.32
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB1	4	0.32
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB2	4	0.32
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB3	4	0.32
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB1	13	0.32
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB2	13	0.32
(1,1610)	1:60:B:ALA:HA	1:60:B:ALA:HB3	13	0.32
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB1	3	0.32
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB2	3	0.32
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB3	3	0.32
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB1	13	0.32
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB2	13	0.32
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB3	13	0.32
(1,1412)	1:38:B:CYS:H	1:38:B:CYS:HB2	5	0.32
(1,1319)	1:24:B:ILE:HA	1:26:B:TYR:H	12	0.32
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG12	12	0.32
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG13	12	0.32
(1,1228)	1:17:B:ASP:H	1:17:B:ASP:HB2	2	0.32
(1,1228)	1:17:B:ASP:H	1:17:B:ASP:HB2	8	0.32
(1,1184)	1:158:A:LYS:H	1:158:A:LYS:HB2	11	0.32
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD11	10	0.32
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD12	10	0.32
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD13	10	0.32
(1,1157)	1:154:A:ASN:H	1:154:A:ASN:HB2	4	0.32
(1,1040)	1:143:A:LYS:H	1:143:A:LYS:HB2	2	0.32
(1,1040)	1:143:A:LYS:H	1:143:A:LYS:HB2	4	0.32
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG21	14	0.32
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG22	14	0.32
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG23	14	0.32
(1,957)	1:135:A:THR:H	1:135:A:THR:HB	9	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,939)	1:133:A:MET:H	1:133:A:MET:HG3	15	0.32
(1,916)	1:127:A:ARG:H	1:127:A:ARG:HB2	13	0.32
(1,909)	1:126:A:LYS:H	1:126:A:LYS:HB2	5	0.32
(1,899)	1:125:A:ARG:H	1:125:A:ARG:HG3	12	0.32
(1,898)	1:125:A:ARG:H	1:125:A:ARG:HB3	2	0.32
(1,898)	1:125:A:ARG:H	1:125:A:ARG:HB3	6	0.32
(1,865)	1:120:A:GLU:H	1:120:A:GLU:HB2	10	0.32
(1,813)	1:105:A:MET:H	1:105:A:MET:HG2	11	0.32
(1,781)	1:102:A:LYS:H	1:102:A:LYS:HB2	5	0.32
(1,772)	1:101:A:GLU:H	1:101:A:GLU:HB2	2	0.32
(1,758)	1:99:A:LEU:HD11	1:75:A:LEU:HB3	4	0.32
(1,758)	1:99:A:LEU:HD12	1:75:A:LEU:HB3	4	0.32
(1,758)	1:99:A:LEU:HD13	1:75:A:LEU:HB3	4	0.32
(1,728)	1:96:A:GLU:H	1:96:A:GLU:HB2	1	0.32
(1,676)	1:91:A:GLU:H	1:91:A:GLU:HG2	6	0.32
(1,663)	1:90:A:LYS:H	1:90:A:LYS:HB2	6	0.32
(1,653)	1:88:A:SER:H	1:88:A:SER:HB3	10	0.32
(1,647)	1:87:A:THR:H	1:87:A:THR:HB	12	0.32
(1,615)	1:82:A:SER:H	1:82:A:SER:HB3	3	0.32
(1,593)	1:79:A:VAL:HG11	1:80:A:ALA:H	2	0.32
(1,593)	1:79:A:VAL:HG12	1:80:A:ALA:H	2	0.32
(1,593)	1:79:A:VAL:HG13	1:80:A:ALA:H	2	0.32
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD21	4	0.32
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD22	4	0.32
(1,546)	1:75:A:LEU:HD11	1:99:A:LEU:HD23	4	0.32
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD21	4	0.32
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD22	4	0.32
(1,546)	1:75:A:LEU:HD12	1:99:A:LEU:HD23	4	0.32
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD21	4	0.32
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD22	4	0.32
(1,546)	1:75:A:LEU:HD13	1:99:A:LEU:HD23	4	0.32
(1,539)	1:75:A:LEU:HD21	1:95:A:LYS:HG2	13	0.32
(1,539)	1:75:A:LEU:HD22	1:95:A:LYS:HG2	13	0.32
(1,539)	1:75:A:LEU:HD23	1:95:A:LYS:HG2	13	0.32
(1,524)	1:75:A:LEU:HD21	1:76:A:VAL:H	11	0.32
(1,524)	1:75:A:LEU:HD22	1:76:A:VAL:H	11	0.32
(1,524)	1:75:A:LEU:HD23	1:76:A:VAL:H	11	0.32
(1,469)	1:69:A:GLY:HA2	1:72:A:ALA:H	15	0.32
(1,439)	1:66:A:TRP:H	1:66:A:TRP:HB2	12	0.32
(1,425)	1:61:A:GLN:H	1:62:A:TYR:H	2	0.32
(1,412)	1:59:A:LYS:H	1:59:A:LYS:HB3	14	0.32
(1,335)	1:48:A:ALA:HB1	1:18:A:MET:HG2	3	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,335)	1:48:A:ALA:HB2	1:18:A:MET:HG2	3	0.32
(1,335)	1:48:A:ALA:HB3	1:18:A:MET:HG2	3	0.32
(1,221)	1:38:A:CYS:H	1:38:A:CYS:HB3	7	0.32
(1,221)	1:38:A:CYS:H	1:38:A:CYS:HB3	15	0.32
(1,198)	1:33:A:LEU:H	1:33:A:LEU:HB3	2	0.32
(1,197)	1:33:A:LEU:H	1:33:A:LEU:HB3	2	0.32
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD21	3	0.32
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD22	3	0.32
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD23	3	0.32
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD21	3	0.32
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD22	3	0.32
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD23	3	0.32
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD21	3	0.32
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD22	3	0.32
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD23	3	0.32
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG21	1	0.32
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG22	1	0.32
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG23	1	0.32
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG12	3	0.32
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG13	3	0.32
(1,116)	1:23:A:ARG:H	1:23:A:ARG:HG2	14	0.32
(1,115)	1:23:A:ARG:H	1:23:A:ARG:HG3	10	0.32
(1,93)	1:20:A:PHE:HA	1:22:A:GLU:H	3	0.32
(1,93)	1:20:A:PHE:HA	1:22:A:GLU:H	12	0.32
(1,38)	1:17:A:ASP:H	1:17:A:ASP:HB2	2	0.32
(1,3)	1:12:A:GLU:H	1:12:A:GLU:HB2	8	0.32
(1,2492)	1:90:A:LYS:H	1:150:B:SER:HB3	1	0.31
(1,2475)	1:147:A:LYS:HD3	1:93:B:LYS:H	3	0.31
(1,2469)	1:147:A:LYS:HB2	1:93:B:LYS:H	4	0.31
(1,2384)	1:151:A:ASP:H	1:90:B:LYS:HE2	10	0.31
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB1	13	0.31
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB2	13	0.31
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB3	13	0.31
(1,2099)	1:126:B:LYS:H	1:126:B:LYS:HB2	9	0.31
(1,2088)	1:125:B:ARG:H	1:125:B:ARG:HB3	4	0.31
(1,1826)	1:84:B:ILE:HG21	1:85:B:TYR:H	9	0.31
(1,1826)	1:84:B:ILE:HG22	1:85:B:TYR:H	9	0.31
(1,1826)	1:84:B:ILE:HG23	1:85:B:TYR:H	9	0.31
(1,1806)	1:82:B:SER:H	1:82:B:SER:HB2	12	0.31
(1,1783)	1:79:B:VAL:HG11	1:80:B:ALA:H	2	0.31
(1,1783)	1:79:B:VAL:HG12	1:80:B:ALA:H	2	0.31
(1,1783)	1:79:B:VAL:HG13	1:80:B:ALA:H	2	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1725)	1:75:B:LEU:HD21	1:95:B:LYS:HA	4	0.31
(1,1725)	1:75:B:LEU:HD22	1:95:B:LYS:HA	4	0.31
(1,1725)	1:75:B:LEU:HD23	1:95:B:LYS:HA	4	0.31
(1,1620)	1:64:B:PHE:H	1:64:B:PHE:HB2	7	0.31
(1,1545)	1:51:B:ASN:H	1:51:B:ASN:HB2	13	0.31
(1,1525)	1:48:B:ALA:HB1	1:18:B:MET:HG2	4	0.31
(1,1525)	1:48:B:ALA:HB2	1:18:B:MET:HG2	4	0.31
(1,1525)	1:48:B:ALA:HB3	1:18:B:MET:HG2	4	0.31
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB1	2	0.31
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB2	2	0.31
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB3	2	0.31
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB1	5	0.31
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB2	5	0.31
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB3	5	0.31
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB1	7	0.31
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB2	7	0.31
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB3	7	0.31
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB1	9	0.31
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB2	9	0.31
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB3	9	0.31
(1,1412)	1:38:B:CYS:H	1:38:B:CYS:HB2	14	0.31
(1,1388)	1:33:B:LEU:H	1:33:B:LEU:HB3	14	0.31
(1,1387)	1:33:B:LEU:H	1:33:B:LEU:HB3	14	0.31
(1,1228)	1:17:B:ASP:H	1:17:B:ASP:HB2	12	0.31
(1,1121)	1:150:A:SER:H	1:150:A:SER:HB2	13	0.31
(1,1097)	1:148:A:GLU:H	1:148:A:GLU:HG2	11	0.31
(1,1008)	1:140:A:GLU:H	1:140:A:GLU:HB2	4	0.31
(1,991)	1:138:A:ASN:H	1:138:A:ASN:HB2	10	0.31
(1,946)	1:134:A:LYS:H	1:134:A:LYS:HG2	5	0.31
(1,946)	1:134:A:LYS:H	1:134:A:LYS:HG2	10	0.31
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB1	12	0.31
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB2	12	0.31
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB3	12	0.31
(1,916)	1:127:A:ARG:H	1:127:A:ARG:HB2	6	0.31
(1,916)	1:127:A:ARG:H	1:127:A:ARG:HB2	15	0.31
(1,865)	1:120:A:GLU:H	1:120:A:GLU:HB2	8	0.31
(1,865)	1:120:A:GLU:H	1:120:A:GLU:HB2	13	0.31
(1,858)	1:119:A:GLU:H	1:119:A:GLU:HG3	9	0.31
(1,840)	1:114:A:LEU:H	1:115:A:GLU:H	13	0.31
(1,781)	1:102:A:LYS:H	1:102:A:LYS:HB2	4	0.31
(1,740)	1:97:A:GLU:H	1:97:A:GLU:HG3	1	0.31
(1,716)	1:95:A:LYS:H	1:95:A:LYS:HB2	1	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,716)	1:95:A:LYS:H	1:95:A:LYS:HB2	8	0.31
(1,663)	1:90:A:LYS:H	1:90:A:LYS:HB2	3	0.31
(1,660)	1:89:A:GLY:HA3	1:90:A:LYS:H	13	0.31
(1,653)	1:88:A:SER:H	1:88:A:SER:HB3	2	0.31
(1,650)	1:87:A:THR:HG21	1:88:A:SER:H	6	0.31
(1,650)	1:87:A:THR:HG22	1:88:A:SER:H	6	0.31
(1,650)	1:87:A:THR:HG23	1:88:A:SER:H	6	0.31
(1,642)	1:85:A:TYR:HB3	1:86:A:GLY:H	9	0.31
(1,641)	1:85:A:TYR:H	1:86:A:GLY:H	4	0.31
(1,641)	1:85:A:TYR:H	1:86:A:GLY:H	13	0.31
(1,593)	1:79:A:VAL:HG11	1:80:A:ALA:H	3	0.31
(1,593)	1:79:A:VAL:HG12	1:80:A:ALA:H	3	0.31
(1,593)	1:79:A:VAL:HG13	1:80:A:ALA:H	3	0.31
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD11	9	0.31
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD12	9	0.31
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD13	9	0.31
(1,485)	1:71:A:GLN:HB2	1:72:A:ALA:H	2	0.31
(1,478)	1:71:A:GLN:H	1:71:A:GLN:HG3	13	0.31
(1,425)	1:61:A:GLN:H	1:62:A:TYR:H	10	0.31
(1,345)	1:49:A:ALA:HB1	1:50:A:GLN:H	10	0.31
(1,345)	1:49:A:ALA:HB2	1:50:A:GLN:H	10	0.31
(1,345)	1:49:A:ALA:HB3	1:50:A:GLN:H	10	0.31
(1,345)	1:49:A:ALA:HB1	1:50:A:GLN:H	12	0.31
(1,345)	1:49:A:ALA:HB2	1:50:A:GLN:H	12	0.31
(1,345)	1:49:A:ALA:HB3	1:50:A:GLN:H	12	0.31
(1,331)	1:48:A:ALA:HB1	1:18:A:MET:HA	10	0.31
(1,331)	1:48:A:ALA:HB2	1:18:A:MET:HA	10	0.31
(1,331)	1:48:A:ALA:HB3	1:18:A:MET:HA	10	0.31
(1,228)	1:39:A:LEU:H	1:39:A:LEU:HB3	8	0.31
(1,221)	1:38:A:CYS:H	1:38:A:CYS:HB3	1	0.31
(1,221)	1:38:A:CYS:H	1:38:A:CYS:HB3	6	0.31
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG12	8	0.31
(1,149)	1:25:A:ILE:H	1:25:A:ILE:HG13	8	0.31
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG21	12	0.31
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG22	12	0.31
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG23	12	0.31
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG12	15	0.31
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG13	15	0.31
(1,38)	1:17:A:ASP:H	1:17:A:ASP:HB2	1	0.31
(1,22)	1:15:A:LEU:HD11	1:99:A:LEU:HD21	1	0.31
(1,22)	1:15:A:LEU:HD11	1:99:A:LEU:HD22	1	0.31
(1,22)	1:15:A:LEU:HD11	1:99:A:LEU:HD23	1	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,22)	1:15:A:LEU:HD12	1:99:A:LEU:HD21	1	0.31
(1,22)	1:15:A:LEU:HD12	1:99:A:LEU:HD22	1	0.31
(1,22)	1:15:A:LEU:HD12	1:99:A:LEU:HD23	1	0.31
(1,22)	1:15:A:LEU:HD13	1:99:A:LEU:HD21	1	0.31
(1,22)	1:15:A:LEU:HD13	1:99:A:LEU:HD22	1	0.31
(1,22)	1:15:A:LEU:HD13	1:99:A:LEU:HD23	1	0.31
(1,2473)	1:147:A:LYS:HG2	1:93:B:LYS:H	7	0.3
(1,2447)	1:100:A:LYS:HE2	1:139:B:GLU:H	12	0.3
(1,2429)	1:97:A:GLU:HG3	1:143:B:LYS:H	12	0.3
(1,2400)	1:150:A:SER:H	1:90:B:LYS:HA	15	0.3
(1,2347)	1:154:B:ASN:H	1:154:B:ASN:HB2	11	0.3
(1,2347)	1:154:B:ASN:H	1:154:B:ASN:HB2	14	0.3
(1,2325)	1:152:B:LEU:H	1:152:B:LEU:HB3	5	0.3
(1,2241)	1:144:B:ASN:H	1:144:B:ASN:HB2	11	0.3
(1,2181)	1:138:B:ASN:H	1:138:B:ASN:HB2	13	0.3
(1,2181)	1:138:B:ASN:H	1:138:B:ASN:HB2	15	0.3
(1,2121)	1:130:B:LEU:H	1:130:B:LEU:HG	5	0.3
(1,1962)	1:101:B:GLU:H	1:101:B:GLU:HB2	5	0.3
(1,1962)	1:101:B:GLU:H	1:101:B:GLU:HB2	9	0.3
(1,1829)	1:85:B:TYR:H	1:85:B:TYR:HB2	2	0.3
(1,1826)	1:84:B:ILE:HG21	1:85:B:TYR:H	8	0.3
(1,1826)	1:84:B:ILE:HG22	1:85:B:TYR:H	8	0.3
(1,1826)	1:84:B:ILE:HG23	1:85:B:TYR:H	8	0.3
(1,1776)	1:78:B:LEU:HD11	1:95:B:LYS:HE2	9	0.3
(1,1776)	1:78:B:LEU:HD12	1:95:B:LYS:HE2	9	0.3
(1,1776)	1:78:B:LEU:HD13	1:95:B:LYS:HE2	9	0.3
(1,1774)	1:78:B:LEU:HD11	1:95:B:LYS:HD2	4	0.3
(1,1774)	1:78:B:LEU:HD12	1:95:B:LYS:HD2	4	0.3
(1,1774)	1:78:B:LEU:HD13	1:95:B:LYS:HD2	4	0.3
(1,1719)	1:75:B:LEU:HD11	1:95:B:LYS:HG2	10	0.3
(1,1719)	1:75:B:LEU:HD12	1:95:B:LYS:HG2	10	0.3
(1,1719)	1:75:B:LEU:HD13	1:95:B:LYS:HG2	10	0.3
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG11	10	0.3
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG12	10	0.3
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG13	10	0.3
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB1	15	0.3
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB2	15	0.3
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB3	15	0.3
(1,1412)	1:38:B:CYS:H	1:38:B:CYS:HB2	2	0.3
(1,1412)	1:38:B:CYS:H	1:38:B:CYS:HB2	8	0.3
(1,1412)	1:38:B:CYS:H	1:38:B:CYS:HB2	9	0.3
(1,1412)	1:38:B:CYS:H	1:38:B:CYS:HB2	10	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1388)	1:33:B:LEU:H	1:33:B:LEU:HB3	2	0.3
(1,1387)	1:33:B:LEU:H	1:33:B:LEU:HB3	2	0.3
(1,1319)	1:24:B:ILE:HA	1:26:B:TYR:H	9	0.3
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG21	4	0.3
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG22	4	0.3
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG23	4	0.3
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG21	6	0.3
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG22	6	0.3
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG23	6	0.3
(1,1304)	1:23:B:ARG:H	1:23:B:ARG:HB2	6	0.3
(1,1304)	1:23:B:ARG:H	1:23:B:ARG:HB2	7	0.3
(1,1283)	1:20:B:PHE:HA	1:22:B:GLU:H	9	0.3
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG21	13	0.3
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG22	13	0.3
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG23	13	0.3
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG21	13	0.3
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG22	13	0.3
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG23	13	0.3
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG21	13	0.3
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG22	13	0.3
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG23	13	0.3
(1,1228)	1:17:B:ASP:H	1:17:B:ASP:HB2	13	0.3
(1,1215)	1:15:B:LEU:HD11	1:103:B:ALA:HA	9	0.3
(1,1215)	1:15:B:LEU:HD12	1:103:B:ALA:HA	9	0.3
(1,1215)	1:15:B:LEU:HD13	1:103:B:ALA:HA	9	0.3
(1,1196)	1:13:B:ARG:H	1:13:B:ARG:HB2	4	0.3
(1,1173)	1:156:A:LEU:H	1:156:A:LEU:HB2	9	0.3
(1,1058)	1:145:A:LEU:H	1:145:A:LEU:HB2	15	0.3
(1,1051)	1:144:A:ASN:H	1:144:A:ASN:HB2	11	0.3
(1,1040)	1:143:A:LYS:H	1:143:A:LYS:HB2	9	0.3
(1,954)	1:134:A:LYS:HB3	1:135:A:THR:H	8	0.3
(1,925)	1:129:A:GLU:H	1:129:A:GLU:HB3	11	0.3
(1,866)	1:120:A:GLU:H	1:120:A:GLU:HB3	15	0.3
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB2	2	0.3
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB3	2	0.3
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB2	12	0.3
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB3	12	0.3
(1,781)	1:102:A:LYS:H	1:102:A:LYS:HB2	2	0.3
(1,781)	1:102:A:LYS:H	1:102:A:LYS:HB2	11	0.3
(1,772)	1:101:A:GLU:H	1:101:A:GLU:HB2	12	0.3
(1,772)	1:101:A:GLU:H	1:101:A:GLU:HB2	14	0.3
(1,729)	1:96:A:GLU:H	1:96:A:GLU:HG3	3	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,695)	1:92:A:LEU:HD21	1:83:A:PHE:HE2	10	0.3
(1,695)	1:92:A:LEU:HD22	1:83:A:PHE:HE2	10	0.3
(1,695)	1:92:A:LEU:HD23	1:83:A:PHE:HE2	10	0.3
(1,676)	1:91:A:GLU:H	1:91:A:GLU:HG2	7	0.3
(1,666)	1:90:A:LYS:H	1:90:A:LYS:HD2	8	0.3
(1,663)	1:90:A:LYS:H	1:90:A:LYS:HB2	13	0.3
(1,641)	1:85:A:TYR:H	1:86:A:GLY:H	12	0.3
(1,593)	1:79:A:VAL:HG11	1:80:A:ALA:H	5	0.3
(1,593)	1:79:A:VAL:HG12	1:80:A:ALA:H	5	0.3
(1,593)	1:79:A:VAL:HG13	1:80:A:ALA:H	5	0.3
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD11	8	0.3
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD12	8	0.3
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD13	8	0.3
(1,485)	1:71:A:GLN:HB2	1:72:A:ALA:H	3	0.3
(1,485)	1:71:A:GLN:HB2	1:72:A:ALA:H	4	0.3
(1,485)	1:71:A:GLN:HB2	1:72:A:ALA:H	7	0.3
(1,457)	1:68:A:VAL:HG11	1:106:A:ARG:HG3	14	0.3
(1,457)	1:68:A:VAL:HG12	1:106:A:ARG:HG3	14	0.3
(1,457)	1:68:A:VAL:HG13	1:106:A:ARG:HG3	14	0.3
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG11	10	0.3
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG12	10	0.3
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG13	10	0.3
(1,415)	1:59:A:LYS:H	1:60:A:ALA:H	1	0.3
(1,355)	1:51:A:ASN:H	1:51:A:ASN:HB2	4	0.3
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD11	9	0.3
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD12	9	0.3
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD13	9	0.3
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD11	15	0.3
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD12	15	0.3
(1,310)	1:47:A:LEU:H	1:47:A:LEU:HD13	15	0.3
(1,211)	1:36:A:ILE:HD11	1:37:A:GLY:H	12	0.3
(1,211)	1:36:A:ILE:HD12	1:37:A:GLY:H	12	0.3
(1,211)	1:36:A:ILE:HD13	1:37:A:GLY:H	12	0.3
(1,198)	1:33:A:LEU:H	1:33:A:LEU:HB3	3	0.3
(1,198)	1:33:A:LEU:H	1:33:A:LEU:HB3	5	0.3
(1,197)	1:33:A:LEU:H	1:33:A:LEU:HB3	3	0.3
(1,197)	1:33:A:LEU:H	1:33:A:LEU:HB3	5	0.3
(1,159)	1:25:A:ILE:HD11	1:41:A:THR:HA	4	0.3
(1,159)	1:25:A:ILE:HD12	1:41:A:THR:HA	4	0.3
(1,159)	1:25:A:ILE:HD13	1:41:A:THR:HA	4	0.3
(1,158)	1:25:A:ILE:HD11	1:41:A:THR:HG21	6	0.3
(1,158)	1:25:A:ILE:HD11	1:41:A:THR:HG22	6	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,158)	1:25:A:ILE:HD11	1:41:A:THR:HG23	6	0.3
(1,158)	1:25:A:ILE:HD12	1:41:A:THR:HG21	6	0.3
(1,158)	1:25:A:ILE:HD12	1:41:A:THR:HG22	6	0.3
(1,158)	1:25:A:ILE:HD12	1:41:A:THR:HG23	6	0.3
(1,158)	1:25:A:ILE:HD13	1:41:A:THR:HG21	6	0.3
(1,158)	1:25:A:ILE:HD13	1:41:A:THR:HG22	6	0.3
(1,158)	1:25:A:ILE:HD13	1:41:A:THR:HG23	6	0.3
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD11	10	0.3
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD12	10	0.3
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD13	10	0.3
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD21	1	0.3
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD22	1	0.3
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD23	1	0.3
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD21	1	0.3
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD22	1	0.3
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD23	1	0.3
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD21	1	0.3
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD22	1	0.3
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD23	1	0.3
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG21	11	0.3
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG22	11	0.3
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG23	11	0.3
(1,79)	1:19:A:THR:HG21	1:99:A:LEU:HB3	8	0.3
(1,79)	1:19:A:THR:HG22	1:99:A:LEU:HB3	8	0.3
(1,79)	1:19:A:THR:HG23	1:99:A:LEU:HB3	8	0.3
(1,2433)	1:97:A:GLU:HG3	1:144:B:ASN:H	4	0.29
(1,2419)	1:93:A:LYS:HE2	1:146:B:GLU:H	7	0.29
(1,2403)	1:93:A:LYS:HB2	1:147:B:LYS:H	12	0.29
(1,2363)	1:156:B:LEU:H	1:156:B:LEU:HB2	2	0.29
(1,2363)	1:156:B:LEU:H	1:156:B:LEU:HB2	6	0.29
(1,2347)	1:154:B:ASN:H	1:154:B:ASN:HB2	9	0.29
(1,2249)	1:145:B:LEU:H	1:145:B:LEU:HG	2	0.29
(1,2116)	1:129:B:GLU:H	1:129:B:GLU:HB2	6	0.29
(1,2116)	1:129:B:GLU:H	1:129:B:GLU:HB2	14	0.29
(1,2106)	1:127:B:ARG:H	1:127:B:ARG:HB2	8	0.29
(1,2099)	1:126:B:LYS:H	1:126:B:LYS:HB2	13	0.29
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB2	1	0.29
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB3	1	0.29
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB2	6	0.29
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB3	6	0.29
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB2	15	0.29
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB3	15	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2011)	1:108:B:LYS:H	1:108:B:LYS:HB2	8	0.29
(1,1962)	1:101:B:GLU:H	1:101:B:GLU:HB2	1	0.29
(1,1962)	1:101:B:GLU:H	1:101:B:GLU:HB2	10	0.29
(1,1962)	1:101:B:GLU:H	1:101:B:GLU:HB2	12	0.29
(1,1829)	1:85:B:TYR:H	1:85:B:TYR:HB2	11	0.29
(1,1829)	1:85:B:TYR:H	1:85:B:TYR:HB2	12	0.29
(1,1806)	1:82:B:SER:H	1:82:B:SER:HB2	13	0.29
(1,1783)	1:79:B:VAL:HG11	1:80:B:ALA:H	1	0.29
(1,1783)	1:79:B:VAL:HG12	1:80:B:ALA:H	1	0.29
(1,1783)	1:79:B:VAL:HG13	1:80:B:ALA:H	1	0.29
(1,1719)	1:75:B:LEU:HD11	1:95:B:LYS:HG2	3	0.29
(1,1719)	1:75:B:LEU:HD12	1:95:B:LYS:HG2	3	0.29
(1,1719)	1:75:B:LEU:HD13	1:95:B:LYS:HG2	3	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG11	2	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG12	2	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG13	2	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG11	3	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG12	3	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG13	3	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG11	5	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG12	5	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG13	5	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG11	7	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG12	7	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG13	7	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG11	12	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG12	12	0.29
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG13	12	0.29
(1,1545)	1:51:B:ASN:H	1:51:B:ASN:HB2	1	0.29
(1,1545)	1:51:B:ASN:H	1:51:B:ASN:HB2	3	0.29
(1,1545)	1:51:B:ASN:H	1:51:B:ASN:HB2	7	0.29
(1,1545)	1:51:B:ASN:H	1:51:B:ASN:HB2	12	0.29
(1,1524)	1:48:B:ALA:HB1	1:18:B:MET:HG3	14	0.29
(1,1524)	1:48:B:ALA:HB2	1:18:B:MET:HG3	14	0.29
(1,1524)	1:48:B:ALA:HB3	1:18:B:MET:HG3	14	0.29
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG12	2	0.29
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG13	2	0.29
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG12	3	0.29
(1,1339)	1:25:B:ILE:H	1:25:B:ILE:HG13	3	0.29
(1,1331)	1:24:B:ILE:HD11	1:146:B:GLU:HG3	10	0.29
(1,1331)	1:24:B:ILE:HD12	1:146:B:GLU:HG3	10	0.29
(1,1331)	1:24:B:ILE:HD13	1:146:B:GLU:HG3	10	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1319)	1:24:B:ILE:HA	1:26:B:TYR:H	1	0.29
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG12	8	0.29
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG13	8	0.29
(1,1304)	1:23:B:ARG:H	1:23:B:ARG:HB2	11	0.29
(1,1228)	1:17:B:ASP:H	1:17:B:ASP:HB2	9	0.29
(1,1117)	1:149:A:LEU:HD21	1:27:A:HIS:HA	13	0.29
(1,1117)	1:149:A:LEU:HD22	1:27:A:HIS:HA	13	0.29
(1,1117)	1:149:A:LEU:HD23	1:27:A:HIS:HA	13	0.29
(1,1040)	1:143:A:LYS:H	1:143:A:LYS:HB2	11	0.29
(1,1009)	1:140:A:GLU:H	1:140:A:GLU:HG3	2	0.29
(1,999)	1:139:A:GLU:H	1:139:A:GLU:HG3	2	0.29
(1,999)	1:139:A:GLU:H	1:139:A:GLU:HG3	14	0.29
(1,957)	1:135:A:THR:H	1:135:A:THR:HB	8	0.29
(1,957)	1:135:A:THR:H	1:135:A:THR:HB	13	0.29
(1,944)	1:134:A:LYS:H	1:134:A:LYS:HB2	9	0.29
(1,929)	1:130:A:LEU:H	1:130:A:LEU:HB3	14	0.29
(1,926)	1:129:A:GLU:H	1:129:A:GLU:HB2	4	0.29
(1,878)	1:122:A:GLU:H	1:122:A:GLU:HB2	7	0.29
(1,865)	1:120:A:GLU:H	1:120:A:GLU:HB2	12	0.29
(1,843)	1:116:A:ARG:H	1:116:A:ARG:HB2	14	0.29
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB2	15	0.29
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB3	15	0.29
(1,772)	1:101:A:GLU:H	1:101:A:GLU:HB2	1	0.29
(1,739)	1:97:A:GLU:H	1:97:A:GLU:HG2	9	0.29
(1,660)	1:89:A:GLY:HA3	1:90:A:LYS:H	11	0.29
(1,654)	1:88:A:SER:H	1:88:A:SER:HG	14	0.29
(1,641)	1:85:A:TYR:H	1:86:A:GLY:H	2	0.29
(1,593)	1:79:A:VAL:HG11	1:80:A:ALA:H	14	0.29
(1,593)	1:79:A:VAL:HG12	1:80:A:ALA:H	14	0.29
(1,593)	1:79:A:VAL:HG13	1:80:A:ALA:H	14	0.29
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG11	5	0.29
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG12	5	0.29
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG13	5	0.29
(1,526)	1:75:A:LEU:HD11	1:95:A:LYS:HB3	9	0.29
(1,526)	1:75:A:LEU:HD12	1:95:A:LYS:HB3	9	0.29
(1,526)	1:75:A:LEU:HD13	1:95:A:LYS:HB3	9	0.29
(1,485)	1:71:A:GLN:HB2	1:72:A:ALA:H	5	0.29
(1,417)	1:59:A:LYS:HG2	1:60:A:ALA:H	10	0.29
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD11	12	0.29
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD12	12	0.29
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD13	12	0.29
(1,345)	1:49:A:ALA:HB1	1:50:A:GLN:H	8	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,345)	1:49:A:ALA:HB2	1:50:A:GLN:H	8	0.29
(1,345)	1:49:A:ALA:HB3	1:50:A:GLN:H	8	0.29
(1,256)	1:40:A:LEU:HD21	1:145:A:LEU:HD11	4	0.29
(1,256)	1:40:A:LEU:HD21	1:145:A:LEU:HD12	4	0.29
(1,256)	1:40:A:LEU:HD21	1:145:A:LEU:HD13	4	0.29
(1,256)	1:40:A:LEU:HD22	1:145:A:LEU:HD11	4	0.29
(1,256)	1:40:A:LEU:HD22	1:145:A:LEU:HD12	4	0.29
(1,256)	1:40:A:LEU:HD22	1:145:A:LEU:HD13	4	0.29
(1,256)	1:40:A:LEU:HD23	1:145:A:LEU:HD11	4	0.29
(1,256)	1:40:A:LEU:HD23	1:145:A:LEU:HD12	4	0.29
(1,256)	1:40:A:LEU:HD23	1:145:A:LEU:HD13	4	0.29
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD11	1	0.29
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD12	1	0.29
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD13	1	0.29
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD11	1	0.29
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD12	1	0.29
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD13	1	0.29
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD11	1	0.29
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD12	1	0.29
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD13	1	0.29
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD11	3	0.29
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD12	3	0.29
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD13	3	0.29
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD11	3	0.29
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD12	3	0.29
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD13	3	0.29
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD11	3	0.29
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD12	3	0.29
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD13	3	0.29
(1,251)	1:40:A:LEU:HD11	1:145:A:LEU:HB2	11	0.29
(1,251)	1:40:A:LEU:HD12	1:145:A:LEU:HB2	11	0.29
(1,251)	1:40:A:LEU:HD13	1:145:A:LEU:HB2	11	0.29
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG21	13	0.29
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG22	13	0.29
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG23	13	0.29
(1,64)	1:18:A:MET:HE1	1:52:A:VAL:HB	10	0.29
(1,64)	1:18:A:MET:HE2	1:52:A:VAL:HB	10	0.29
(1,64)	1:18:A:MET:HE3	1:52:A:VAL:HB	10	0.29
(1,38)	1:17:A:ASP:H	1:17:A:ASP:HB2	11	0.29
(1,2)	1:12:A:GLU:H	1:12:A:GLU:HB3	5	0.29
(1,2433)	1:97:A:GLU:HG3	1:144:B:ASN:H	10	0.28
(1,2374)	1:158:B:LYS:H	1:158:B:LYS:HB2	11	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2347)	1:154:B:ASN:H	1:154:B:ASN:HB2	1	0.28
(1,2287)	1:148:B:GLU:H	1:148:B:GLU:HG2	9	0.28
(1,2287)	1:148:B:GLU:H	1:148:B:GLU:HG2	10	0.28
(1,2264)	1:146:B:GLU:H	1:146:B:GLU:HB2	7	0.28
(1,2241)	1:144:B:ASN:H	1:144:B:ASN:HB2	4	0.28
(1,2116)	1:129:B:GLU:H	1:129:B:GLU:HB2	2	0.28
(1,2116)	1:129:B:GLU:H	1:129:B:GLU:HB2	3	0.28
(1,2116)	1:129:B:GLU:H	1:129:B:GLU:HB2	8	0.28
(1,2116)	1:129:B:GLU:H	1:129:B:GLU:HB2	9	0.28
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB1	3	0.28
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB2	3	0.28
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB3	3	0.28
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB1	10	0.28
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB2	10	0.28
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB3	10	0.28
(1,2106)	1:127:B:ARG:H	1:127:B:ARG:HB2	15	0.28
(1,2033)	1:116:B:ARG:H	1:116:B:ARG:HB2	12	0.28
(1,2028)	1:114:B:LEU:H	1:114:B:LEU:HB2	4	0.28
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB2	2	0.28
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB3	2	0.28
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB2	7	0.28
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB3	7	0.28
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB2	12	0.28
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB3	12	0.28
(1,2001)	1:105:B:MET:H	1:105:B:MET:HB2	1	0.28
(1,2001)	1:105:B:MET:H	1:105:B:MET:HB2	9	0.28
(1,2001)	1:105:B:MET:H	1:105:B:MET:HB2	15	0.28
(1,1962)	1:101:B:GLU:H	1:101:B:GLU:HB2	11	0.28
(1,1918)	1:96:B:GLU:H	1:96:B:GLU:HB2	7	0.28
(1,1853)	1:90:B:LYS:H	1:90:B:LYS:HB2	7	0.28
(1,1853)	1:90:B:LYS:H	1:90:B:LYS:HB2	14	0.28
(1,1829)	1:85:B:TYR:H	1:85:B:TYR:HB2	7	0.28
(1,1829)	1:85:B:TYR:H	1:85:B:TYR:HB2	13	0.28
(1,1723)	1:75:B:LEU:HD11	1:95:B:LYS:HE2	11	0.28
(1,1723)	1:75:B:LEU:HD12	1:95:B:LYS:HE2	11	0.28
(1,1723)	1:75:B:LEU:HD13	1:95:B:LYS:HE2	11	0.28
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG11	1	0.28
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG12	1	0.28
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG13	1	0.28
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG11	13	0.28
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG12	13	0.28
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG13	13	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG11	15	0.28
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG12	15	0.28
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG13	15	0.28
(1,1545)	1:51:B:ASN:H	1:51:B:ASN:HB2	2	0.28
(1,1545)	1:51:B:ASN:H	1:51:B:ASN:HB2	15	0.28
(1,1524)	1:48:B:ALA:HB1	1:18:B:MET:HG3	7	0.28
(1,1524)	1:48:B:ALA:HB2	1:18:B:MET:HG3	7	0.28
(1,1524)	1:48:B:ALA:HB3	1:18:B:MET:HG3	7	0.28
(1,1412)	1:38:B:CYS:H	1:38:B:CYS:HB2	12	0.28
(1,1335)	1:24:B:ILE:HG21	1:146:B:GLU:HG3	5	0.28
(1,1335)	1:24:B:ILE:HG22	1:146:B:GLU:HG3	5	0.28
(1,1335)	1:24:B:ILE:HG23	1:146:B:GLU:HG3	5	0.28
(1,1331)	1:24:B:ILE:HD11	1:146:B:GLU:HG3	12	0.28
(1,1331)	1:24:B:ILE:HD12	1:146:B:GLU:HG3	12	0.28
(1,1331)	1:24:B:ILE:HD13	1:146:B:GLU:HG3	12	0.28
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG21	15	0.28
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG22	15	0.28
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG23	15	0.28
(1,1283)	1:20:B:PHE:HA	1:22:B:GLU:H	5	0.28
(1,1283)	1:20:B:PHE:HA	1:22:B:GLU:H	7	0.28
(1,1283)	1:20:B:PHE:HA	1:22:B:GLU:H	14	0.28
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG21	14	0.28
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG22	14	0.28
(1,1258)	1:18:B:MET:HE1	1:135:B:THR:HG23	14	0.28
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG21	14	0.28
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG22	14	0.28
(1,1258)	1:18:B:MET:HE2	1:135:B:THR:HG23	14	0.28
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG21	14	0.28
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG22	14	0.28
(1,1258)	1:18:B:MET:HE3	1:135:B:THR:HG23	14	0.28
(1,1251)	1:18:B:MET:HE1	1:51:B:ASN:HB2	6	0.28
(1,1251)	1:18:B:MET:HE2	1:51:B:ASN:HB2	6	0.28
(1,1251)	1:18:B:MET:HE3	1:51:B:ASN:HB2	6	0.28
(1,1199)	1:13:B:ARG:HA	1:14:B:ASP:H	5	0.28
(1,1187)	1:159:A:LYS:H	1:159:A:LYS:HB2	4	0.28
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD21	6	0.28
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD22	6	0.28
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD23	6	0.28
(1,1174)	1:156:A:LEU:H	1:156:A:LEU:HG	4	0.28
(1,1173)	1:156:A:LEU:H	1:156:A:LEU:HB2	12	0.28
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD11	15	0.28
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD12	15	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1144)	1:152:A:LEU:HD11	1:33:A:LEU:HD13	15	0.28
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD11	15	0.28
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD12	15	0.28
(1,1144)	1:152:A:LEU:HD12	1:33:A:LEU:HD13	15	0.28
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD11	15	0.28
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD12	15	0.28
(1,1144)	1:152:A:LEU:HD13	1:33:A:LEU:HD13	15	0.28
(1,1135)	1:152:A:LEU:H	1:152:A:LEU:HB3	6	0.28
(1,1058)	1:145:A:LEU:H	1:145:A:LEU:HB2	14	0.28
(1,968)	1:135:A:THR:HG21	1:18:A:MET:H	2	0.28
(1,968)	1:135:A:THR:HG22	1:18:A:MET:H	2	0.28
(1,968)	1:135:A:THR:HG23	1:18:A:MET:H	2	0.28
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB1	5	0.28
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB2	5	0.28
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB3	5	0.28
(1,878)	1:122:A:GLU:H	1:122:A:GLU:HB2	2	0.28
(1,878)	1:122:A:GLU:H	1:122:A:GLU:HB2	3	0.28
(1,846)	1:117:A:ARG:H	1:117:A:ARG:HB2	7	0.28
(1,846)	1:117:A:ARG:H	1:117:A:ARG:HB2	10	0.28
(1,846)	1:117:A:ARG:H	1:117:A:ARG:HB2	12	0.28
(1,795)	1:103:A:ALA:HB1	1:15:A:LEU:HB3	4	0.28
(1,795)	1:103:A:ALA:HB2	1:15:A:LEU:HB3	4	0.28
(1,795)	1:103:A:ALA:HB3	1:15:A:LEU:HB3	4	0.28
(1,795)	1:103:A:ALA:HB1	1:15:A:LEU:HB3	13	0.28
(1,795)	1:103:A:ALA:HB2	1:15:A:LEU:HB3	13	0.28
(1,795)	1:103:A:ALA:HB3	1:15:A:LEU:HB3	13	0.28
(1,772)	1:101:A:GLU:H	1:101:A:GLU:HB2	4	0.28
(1,772)	1:101:A:GLU:H	1:101:A:GLU:HB2	10	0.28
(1,739)	1:97:A:GLU:H	1:97:A:GLU:HG2	3	0.28
(1,718)	1:95:A:LYS:H	1:95:A:LYS:HD3	3	0.28
(1,716)	1:95:A:LYS:H	1:95:A:LYS:HB2	3	0.28
(1,665)	1:90:A:LYS:H	1:90:A:LYS:HD3	2	0.28
(1,663)	1:90:A:LYS:H	1:90:A:LYS:HB2	10	0.28
(1,647)	1:87:A:THR:H	1:87:A:THR:HB	4	0.28
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD11	1	0.28
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD12	1	0.28
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD13	1	0.28
(1,622)	1:82:A:SER:H	1:83:A:PHE:HB3	5	0.28
(1,615)	1:82:A:SER:H	1:82:A:SER:HB3	15	0.28
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB1	1	0.28
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB2	1	0.28
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB3	1	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG11	8	0.28
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG12	8	0.28
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG13	8	0.28
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG11	9	0.28
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG12	9	0.28
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG13	9	0.28
(1,485)	1:71:A:GLN:HB2	1:72:A:ALA:H	12	0.28
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG11	5	0.28
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG12	5	0.28
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG13	5	0.28
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG11	6	0.28
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG12	6	0.28
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG13	6	0.28
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG11	7	0.28
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG12	7	0.28
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG13	7	0.28
(1,419)	1:60:A:ALA:H	1:60:A:ALA:HB1	4	0.28
(1,419)	1:60:A:ALA:H	1:60:A:ALA:HB2	4	0.28
(1,419)	1:60:A:ALA:H	1:60:A:ALA:HB3	4	0.28
(1,367)	1:52:A:VAL:HB	1:53:A:ARG:H	4	0.28
(1,355)	1:51:A:ASN:H	1:51:A:ASN:HB2	1	0.28
(1,355)	1:51:A:ASN:H	1:51:A:ASN:HB2	13	0.28
(1,345)	1:49:A:ALA:HB1	1:50:A:GLN:H	9	0.28
(1,345)	1:49:A:ALA:HB2	1:50:A:GLN:H	9	0.28
(1,345)	1:49:A:ALA:HB3	1:50:A:GLN:H	9	0.28
(1,345)	1:49:A:ALA:HB1	1:50:A:GLN:H	11	0.28
(1,345)	1:49:A:ALA:HB2	1:50:A:GLN:H	11	0.28
(1,345)	1:49:A:ALA:HB3	1:50:A:GLN:H	11	0.28
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB2	12	0.28
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB3	12	0.28
(1,228)	1:39:A:LEU:H	1:39:A:LEU:HB3	7	0.28
(1,228)	1:39:A:LEU:H	1:39:A:LEU:HB3	10	0.28
(1,195)	1:30:A:LYS:HB2	1:31:A:GLN:H	15	0.28
(1,169)	1:26:A:TYR:H	1:26:A:TYR:HD2	7	0.28
(1,38)	1:17:A:ASP:H	1:17:A:ASP:HB2	7	0.28
(1,2492)	1:90:A:LYS:H	1:150:B:SER:HB3	10	0.27
(1,2430)	1:143:A:LYS:H	1:97:B:GLU:HG3	10	0.27
(1,2381)	1:90:A:LYS:HE3	1:151:B:ASP:H	10	0.27
(1,2363)	1:156:B:LEU:H	1:156:B:LEU:HB2	3	0.27
(1,2347)	1:154:B:ASN:H	1:154:B:ASN:HB2	3	0.27
(1,2347)	1:154:B:ASN:H	1:154:B:ASN:HB2	12	0.27
(1,2287)	1:148:B:GLU:H	1:148:B:GLU:HG2	8	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2229)	1:143:B:LYS:H	1:143:B:LYS:HB3	2	0.27
(1,2131)	1:133:B:MET:H	1:133:B:MET:HE1	4	0.27
(1,2131)	1:133:B:MET:H	1:133:B:MET:HE2	4	0.27
(1,2131)	1:133:B:MET:H	1:133:B:MET:HE3	4	0.27
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB1	14	0.27
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB2	14	0.27
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB3	14	0.27
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB1	5	0.27
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB2	5	0.27
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB3	5	0.27
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB1	6	0.27
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB2	6	0.27
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB3	6	0.27
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB1	9	0.27
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB2	9	0.27
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB3	9	0.27
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB1	14	0.27
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB2	14	0.27
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB3	14	0.27
(1,2055)	1:120:B:GLU:H	1:120:B:GLU:HB2	13	0.27
(1,2011)	1:108:B:LYS:H	1:108:B:LYS:HB2	4	0.27
(1,2001)	1:105:B:MET:H	1:105:B:MET:HB2	4	0.27
(1,1962)	1:101:B:GLU:H	1:101:B:GLU:HB2	8	0.27
(1,1918)	1:96:B:GLU:H	1:96:B:GLU:HB2	1	0.27
(1,1918)	1:96:B:GLU:H	1:96:B:GLU:HB2	8	0.27
(1,1829)	1:85:B:TYR:H	1:85:B:TYR:HB2	14	0.27
(1,1761)	1:78:B:LEU:H	1:78:B:LEU:HB3	1	0.27
(1,1761)	1:78:B:LEU:H	1:78:B:LEU:HB3	11	0.27
(1,1728)	1:75:B:LEU:HD21	1:95:B:LYS:HG3	3	0.27
(1,1728)	1:75:B:LEU:HD22	1:95:B:LYS:HG3	3	0.27
(1,1728)	1:75:B:LEU:HD23	1:95:B:LYS:HG3	3	0.27
(1,1620)	1:64:B:PHE:H	1:64:B:PHE:HB2	12	0.27
(1,1601)	1:59:B:LYS:H	1:59:B:LYS:HA	7	0.27
(1,1562)	1:52:B:VAL:HG11	1:69:B:GLY:H	4	0.27
(1,1562)	1:52:B:VAL:HG12	1:69:B:GLY:H	4	0.27
(1,1562)	1:52:B:VAL:HG13	1:69:B:GLY:H	4	0.27
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG11	14	0.27
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG12	14	0.27
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG13	14	0.27
(1,1545)	1:51:B:ASN:H	1:51:B:ASN:HB2	9	0.27
(1,1545)	1:51:B:ASN:H	1:51:B:ASN:HB2	10	0.27
(1,1545)	1:51:B:ASN:H	1:51:B:ASN:HB2	11	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB1	4	0.27
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB2	4	0.27
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB3	4	0.27
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB1	6	0.27
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB2	6	0.27
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB3	6	0.27
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB1	10	0.27
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB2	10	0.27
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB3	10	0.27
(1,1388)	1:33:B:LEU:H	1:33:B:LEU:HB3	15	0.27
(1,1387)	1:33:B:LEU:H	1:33:B:LEU:HB3	15	0.27
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB1	11	0.27
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB2	11	0.27
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB3	11	0.27
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB1	11	0.27
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB2	11	0.27
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB3	11	0.27
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB1	11	0.27
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB2	11	0.27
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB3	11	0.27
(1,1306)	1:23:B:ARG:H	1:23:B:ARG:HG2	10	0.27
(1,1228)	1:17:B:ASP:H	1:17:B:ASP:HB2	15	0.27
(1,1196)	1:13:B:ARG:H	1:13:B:ARG:HB2	11	0.27
(1,1193)	1:12:B:GLU:H	1:12:B:GLU:HB2	12	0.27
(1,1173)	1:156:A:LEU:H	1:156:A:LEU:HB2	2	0.27
(1,1119)	1:149:A:LEU:HD21	1:28:A:CYS:HA	14	0.27
(1,1119)	1:149:A:LEU:HD22	1:28:A:CYS:HA	14	0.27
(1,1119)	1:149:A:LEU:HD23	1:28:A:CYS:HA	14	0.27
(1,1074)	1:146:A:GLU:H	1:146:A:GLU:HB2	12	0.27
(1,1074)	1:146:A:GLU:H	1:146:A:GLU:HB2	13	0.27
(1,1074)	1:146:A:GLU:H	1:146:A:GLU:HB2	15	0.27
(1,1058)	1:145:A:LEU:H	1:145:A:LEU:HB2	9	0.27
(1,1040)	1:143:A:LYS:H	1:143:A:LYS:HB2	13	0.27
(1,998)	1:139:A:GLU:H	1:139:A:GLU:HB2	12	0.27
(1,991)	1:138:A:ASN:H	1:138:A:ASN:HB2	13	0.27
(1,941)	1:133:A:MET:H	1:133:A:MET:HE1	9	0.27
(1,941)	1:133:A:MET:H	1:133:A:MET:HE2	9	0.27
(1,941)	1:133:A:MET:H	1:133:A:MET:HE3	9	0.27
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB1	1	0.27
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB2	1	0.27
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB3	1	0.27
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB1	2	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB2	2	0.27
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB3	2	0.27
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB1	6	0.27
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB2	6	0.27
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB3	6	0.27
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB1	9	0.27
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB2	9	0.27
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB3	9	0.27
(1,845)	1:117:A:ARG:H	1:117:A:ARG:HA	13	0.27
(1,772)	1:101:A:GLU:H	1:101:A:GLU:HB2	13	0.27
(1,772)	1:101:A:GLU:H	1:101:A:GLU:HB2	15	0.27
(1,728)	1:96:A:GLU:H	1:96:A:GLU:HB2	5	0.27
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB1	4	0.27
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB2	4	0.27
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB3	4	0.27
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB1	6	0.27
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB2	6	0.27
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB3	6	0.27
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB1	8	0.27
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB2	8	0.27
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB3	8	0.27
(1,691)	1:92:A:LEU:HD11	1:83:A:PHE:HE2	7	0.27
(1,691)	1:92:A:LEU:HD12	1:83:A:PHE:HE2	7	0.27
(1,691)	1:92:A:LEU:HD13	1:83:A:PHE:HE2	7	0.27
(1,660)	1:89:A:GLY:HA3	1:90:A:LYS:H	1	0.27
(1,650)	1:87:A:THR:HG21	1:88:A:SER:H	4	0.27
(1,650)	1:87:A:THR:HG22	1:88:A:SER:H	4	0.27
(1,650)	1:87:A:THR:HG23	1:88:A:SER:H	4	0.27
(1,641)	1:85:A:TYR:H	1:86:A:GLY:H	5	0.27
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD11	5	0.27
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD12	5	0.27
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD13	5	0.27
(1,593)	1:79:A:VAL:HG11	1:80:A:ALA:H	13	0.27
(1,593)	1:79:A:VAL:HG12	1:80:A:ALA:H	13	0.27
(1,593)	1:79:A:VAL:HG13	1:80:A:ALA:H	13	0.27
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG11	4	0.27
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG12	4	0.27
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG13	4	0.27
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG11	6	0.27
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG12	6	0.27
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG13	6	0.27
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG11	10	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG12	10	0.27
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG13	10	0.27
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD11	4	0.27
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD12	4	0.27
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD13	4	0.27
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD11	6	0.27
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD12	6	0.27
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD13	6	0.27
(1,524)	1:75:A:LEU:HD21	1:76:A:VAL:H	5	0.27
(1,524)	1:75:A:LEU:HD22	1:76:A:VAL:H	5	0.27
(1,524)	1:75:A:LEU:HD23	1:76:A:VAL:H	5	0.27
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB1	15	0.27
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB2	15	0.27
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB3	15	0.27
(1,485)	1:71:A:GLN:HB2	1:72:A:ALA:H	1	0.27
(1,485)	1:71:A:GLN:HB2	1:72:A:ALA:H	14	0.27
(1,464)	1:68:A:VAL:HG11	1:102:A:LYS:HE2	1	0.27
(1,464)	1:68:A:VAL:HG12	1:102:A:LYS:HE2	1	0.27
(1,464)	1:68:A:VAL:HG13	1:102:A:LYS:HE2	1	0.27
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG11	3	0.27
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG12	3	0.27
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG13	3	0.27
(1,430)	1:64:A:PHE:H	1:64:A:PHE:HB2	1	0.27
(1,361)	1:51:A:ASN:HB2	1:52:A:VAL:H	6	0.27
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB1	5	0.27
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB2	5	0.27
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB3	5	0.27
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB1	11	0.27
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB2	11	0.27
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB3	11	0.27
(1,335)	1:48:A:ALA:HB1	1:18:A:MET:HG2	7	0.27
(1,335)	1:48:A:ALA:HB2	1:18:A:MET:HG2	7	0.27
(1,335)	1:48:A:ALA:HB3	1:18:A:MET:HG2	7	0.27
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB2	11	0.27
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB3	11	0.27
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB2	13	0.27
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB3	13	0.27
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB2	14	0.27
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB3	14	0.27
(1,251)	1:40:A:LEU:HD11	1:145:A:LEU:HB2	9	0.27
(1,251)	1:40:A:LEU:HD12	1:145:A:LEU:HB2	9	0.27
(1,251)	1:40:A:LEU:HD13	1:145:A:LEU:HB2	9	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD21	5	0.27
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD22	5	0.27
(1,136)	1:24:A:ILE:HD11	1:40:A:LEU:HD23	5	0.27
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD21	5	0.27
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD22	5	0.27
(1,136)	1:24:A:ILE:HD12	1:40:A:LEU:HD23	5	0.27
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD21	5	0.27
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD22	5	0.27
(1,136)	1:24:A:ILE:HD13	1:40:A:LEU:HD23	5	0.27
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG21	5	0.27
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG22	5	0.27
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG23	5	0.27
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG12	10	0.27
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG13	10	0.27
(1,116)	1:23:A:ARG:H	1:23:A:ARG:HG2	8	0.27
(1,115)	1:23:A:ARG:H	1:23:A:ARG:HG3	1	0.27
(1,115)	1:23:A:ARG:H	1:23:A:ARG:HG3	7	0.27
(1,42)	1:17:A:ASP:HB3	1:18:A:MET:H	7	0.27
(1,7)	1:13:A:ARG:H	1:13:A:ARG:HG3	9	0.27
(1,6)	1:13:A:ARG:H	1:13:A:ARG:HB2	2	0.27
(1,2491)	1:150:A:SER:HB3	1:90:B:LYS:H	1	0.26
(1,2482)	1:93:A:LYS:H	1:147:B:LYS:HE2	1	0.26
(1,2442)	1:140:A:GLU:H	1:100:B:LYS:HD3	13	0.26
(1,2434)	1:144:A:ASN:H	1:97:B:GLU:HG3	5	0.26
(1,2429)	1:97:A:GLU:HG3	1:143:B:LYS:H	8	0.26
(1,2309)	1:149:B:LEU:HD21	1:28:B:CYS:HA	7	0.26
(1,2309)	1:149:B:LEU:HD22	1:28:B:CYS:HA	7	0.26
(1,2309)	1:149:B:LEU:HD23	1:28:B:CYS:HA	7	0.26
(1,2241)	1:144:B:ASN:H	1:144:B:ASN:HB2	1	0.26
(1,2230)	1:143:B:LYS:H	1:143:B:LYS:HB2	13	0.26
(1,2116)	1:129:B:GLU:H	1:129:B:GLU:HB2	4	0.26
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB1	2	0.26
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB2	2	0.26
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB3	2	0.26
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB1	7	0.26
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB2	7	0.26
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB3	7	0.26
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB1	8	0.26
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB2	8	0.26
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB3	8	0.26
(1,2100)	1:126:B:LYS:H	1:127:B:ARG:H	5	0.26
(1,2052)	1:119:B:GLU:HA	1:121:B:THR:H	3	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2038)	1:117:B:ARG:H	1:118:B:GLU:H	9	0.26
(1,2028)	1:114:B:LEU:H	1:114:B:LEU:HB2	8	0.26
(1,2028)	1:114:B:LEU:H	1:114:B:LEU:HB2	12	0.26
(1,2025)	1:113:B:GLU:H	1:114:B:LEU:H	5	0.26
(1,2020)	1:111:B:ILE:H	1:112:B:GLN:H	3	0.26
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB2	10	0.26
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB3	10	0.26
(1,2001)	1:105:B:MET:H	1:105:B:MET:HB2	2	0.26
(1,2001)	1:105:B:MET:H	1:105:B:MET:HB2	6	0.26
(1,2001)	1:105:B:MET:H	1:105:B:MET:HB2	7	0.26
(1,2001)	1:105:B:MET:H	1:105:B:MET:HB2	8	0.26
(1,1971)	1:102:B:LYS:H	1:102:B:LYS:HB2	15	0.26
(1,1918)	1:96:B:GLU:H	1:96:B:GLU:HB2	15	0.26
(1,1906)	1:95:B:LYS:H	1:95:B:LYS:HB2	7	0.26
(1,1806)	1:82:B:SER:H	1:82:B:SER:HB2	4	0.26
(1,1806)	1:82:B:SER:H	1:82:B:SER:HB2	8	0.26
(1,1806)	1:82:B:SER:H	1:82:B:SER:HB2	9	0.26
(1,1620)	1:64:B:PHE:H	1:64:B:PHE:HB2	11	0.26
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB1	4	0.26
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB2	4	0.26
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB3	4	0.26
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG11	11	0.26
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG12	11	0.26
(1,1555)	1:52:B:VAL:HA	1:52:B:VAL:HG13	11	0.26
(1,1525)	1:48:B:ALA:HB1	1:18:B:MET:HG2	6	0.26
(1,1525)	1:48:B:ALA:HB2	1:18:B:MET:HG2	6	0.26
(1,1525)	1:48:B:ALA:HB3	1:18:B:MET:HG2	6	0.26
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB1	8	0.26
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB2	8	0.26
(1,1468)	1:44:B:ALA:H	1:44:B:ALA:HB3	8	0.26
(1,1419)	1:39:B:LEU:H	1:39:B:LEU:HB2	1	0.26
(1,1388)	1:33:B:LEU:H	1:33:B:LEU:HB3	11	0.26
(1,1387)	1:33:B:LEU:H	1:33:B:LEU:HB3	11	0.26
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB1	9	0.26
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB2	9	0.26
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB3	9	0.26
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB1	9	0.26
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB2	9	0.26
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB3	9	0.26
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB1	9	0.26
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB2	9	0.26
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB3	9	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG12	3	0.26
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG13	3	0.26
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB1	1	0.26
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB2	1	0.26
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB3	1	0.26
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB1	1	0.26
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB2	1	0.26
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB3	1	0.26
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB1	1	0.26
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB2	1	0.26
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB3	1	0.26
(1,1129)	1:151:A:ASP:H	1:151:A:ASP:HB2	10	0.26
(1,1059)	1:145:A:LEU:H	1:145:A:LEU:HG	4	0.26
(1,1059)	1:145:A:LEU:H	1:145:A:LEU:HG	7	0.26
(1,1057)	1:145:A:LEU:H	1:145:A:LEU:HB3	13	0.26
(1,1051)	1:144:A:ASN:H	1:144:A:ASN:HB2	1	0.26
(1,1051)	1:144:A:ASN:H	1:144:A:ASN:HB2	6	0.26
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG21	13	0.26
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG22	13	0.26
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG23	13	0.26
(1,1009)	1:140:A:GLU:H	1:140:A:GLU:HG3	13	0.26
(1,991)	1:138:A:ASN:H	1:138:A:ASN:HB2	3	0.26
(1,991)	1:138:A:ASN:H	1:138:A:ASN:HB2	6	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB1	4	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB2	4	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB3	4	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB1	7	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB2	7	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB3	7	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB1	10	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB2	10	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB3	10	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB1	13	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB2	13	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB3	13	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB1	14	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB2	14	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB3	14	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB1	15	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB2	15	0.26
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB3	15	0.26
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB2	11	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB3	11	0.26
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB2	14	0.26
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB3	14	0.26
(1,820)	1:108:A:LYS:H	1:108:A:LYS:HB3	8	0.26
(1,811)	1:105:A:MET:H	1:105:A:MET:HB2	14	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB1	1	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB2	1	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB3	1	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB1	2	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB2	2	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB3	2	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB1	3	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB2	3	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB3	3	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB1	4	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB2	4	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB3	4	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB1	5	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB2	5	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB3	5	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB1	6	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB2	6	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB3	6	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB1	7	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB2	7	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB3	7	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB1	8	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB2	8	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB3	8	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB1	9	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB2	9	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB3	9	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB1	10	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB2	10	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB3	10	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB1	11	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB2	11	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB3	11	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB1	12	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB2	12	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB3	12	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB1	13	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB2	13	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB3	13	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB1	14	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB2	14	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB3	14	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB1	15	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB2	15	0.26
(1,790)	1:103:A:ALA:H	1:103:A:ALA:HB3	15	0.26
(1,772)	1:101:A:GLU:H	1:101:A:GLU:HB2	3	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB1	1	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB2	1	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB3	1	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB1	2	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB2	2	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB3	2	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB1	3	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB2	3	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB3	3	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB1	5	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB2	5	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB3	5	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB1	7	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB2	7	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB3	7	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB1	9	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB2	9	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB3	9	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB1	10	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB2	10	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB3	10	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB1	11	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB2	11	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB3	11	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB1	12	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB2	12	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB3	12	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB1	13	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB2	13	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB3	13	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB1	14	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB2	14	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB3	14	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB1	15	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB2	15	0.26
(1,709)	1:94:A:ALA:H	1:94:A:ALA:HB3	15	0.26
(1,699)	1:93:A:LYS:H	1:93:A:LYS:HG2	3	0.26
(1,695)	1:92:A:LEU:HD21	1:83:A:PHE:HE2	9	0.26
(1,695)	1:92:A:LEU:HD22	1:83:A:PHE:HE2	9	0.26
(1,695)	1:92:A:LEU:HD23	1:83:A:PHE:HE2	9	0.26
(1,684)	1:92:A:LEU:H	1:92:A:LEU:HD21	15	0.26
(1,684)	1:92:A:LEU:H	1:92:A:LEU:HD22	15	0.26
(1,684)	1:92:A:LEU:H	1:92:A:LEU:HD23	15	0.26
(1,663)	1:90:A:LYS:H	1:90:A:LYS:HB2	2	0.26
(1,660)	1:89:A:GLY:HA3	1:90:A:LYS:H	12	0.26
(1,642)	1:85:A:TYR:HB3	1:86:A:GLY:H	6	0.26
(1,641)	1:85:A:TYR:H	1:86:A:GLY:H	10	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB1	2	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB2	2	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB3	2	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB1	3	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB2	3	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB3	3	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB1	4	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB2	4	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB3	4	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB1	5	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB2	5	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB3	5	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB1	6	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB2	6	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB3	6	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB1	7	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB2	7	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB3	7	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB1	8	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB2	8	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB3	8	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB1	9	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB2	9	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB3	9	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB1	10	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB2	10	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB3	10	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB1	11	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB2	11	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB3	11	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB1	13	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB2	13	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB3	13	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB1	14	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB2	14	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB3	14	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB1	15	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB2	15	0.26
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB3	15	0.26
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG11	13	0.26
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG12	13	0.26
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG13	13	0.26
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB1	4	0.26
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB2	4	0.26
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB3	4	0.26
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB1	6	0.26
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB2	6	0.26
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB3	6	0.26
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB1	8	0.26
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB2	8	0.26
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB3	8	0.26
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB1	9	0.26
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB2	9	0.26
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB3	9	0.26
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB1	10	0.26
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB2	10	0.26
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB3	10	0.26
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD11	7	0.26
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD12	7	0.26
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD13	7	0.26
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD11	7	0.26
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD12	7	0.26
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD13	7	0.26
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD11	7	0.26
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD12	7	0.26
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD13	7	0.26
(1,536)	1:75:A:LEU:HD21	1:95:A:LYS:HB3	7	0.26
(1,536)	1:75:A:LEU:HD22	1:95:A:LYS:HB3	7	0.26
(1,536)	1:75:A:LEU:HD23	1:95:A:LYS:HB3	7	0.26
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG21	3	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG22	3	0.26
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG23	3	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB1	1	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB2	1	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB3	1	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB1	2	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB2	2	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB3	2	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB1	3	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB2	3	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB3	3	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB1	4	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB2	4	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB3	4	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB1	5	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB2	5	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB3	5	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB1	6	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB2	6	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB3	6	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB1	7	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB2	7	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB3	7	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB1	8	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB2	8	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB3	8	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB1	9	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB2	9	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB3	9	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB1	10	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB2	10	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB3	10	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB1	11	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB2	11	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB3	11	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB1	12	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB2	12	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB3	12	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB1	13	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB2	13	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB3	13	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB1	14	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB2	14	0.26
(1,497)	1:73:A:ALA:H	1:73:A:ALA:HB3	14	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB1	2	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB2	2	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB3	2	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB1	3	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB2	3	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB3	3	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB1	4	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB2	4	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB3	4	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB1	6	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB2	6	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB3	6	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB1	8	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB2	8	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB3	8	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB1	13	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB2	13	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB3	13	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB1	15	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB2	15	0.26
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB3	15	0.26
(1,416)	1:59:A:LYS:HB2	1:60:A:ALA:H	8	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB1	1	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB2	1	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB3	1	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB1	2	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB2	2	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB3	2	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB1	3	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB2	3	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB3	3	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB1	4	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB2	4	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB3	4	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB1	6	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB2	6	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB3	6	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB1	7	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB2	7	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB3	7	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB1	8	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB2	8	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB3	8	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB1	9	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB2	9	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB3	9	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB1	10	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB2	10	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB3	10	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB1	12	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB2	12	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB3	12	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB1	13	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB2	13	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB3	13	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB1	14	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB2	14	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB3	14	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB1	15	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB2	15	0.26
(1,339)	1:49:A:ALA:H	1:49:A:ALA:HB3	15	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB1	2	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB2	2	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB3	2	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB1	3	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB2	3	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB3	3	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB1	4	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB2	4	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB3	4	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB1	5	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB2	5	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB3	5	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB1	6	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB2	6	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB3	6	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB1	7	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB2	7	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB3	7	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB1	8	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB2	8	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB3	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB1	15	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB2	15	0.26
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB3	15	0.26
(1,321)	1:47:A:LEU:HD21	1:138:A:ASN:HA	4	0.26
(1,321)	1:47:A:LEU:HD22	1:138:A:ASN:HA	4	0.26
(1,321)	1:47:A:LEU:HD23	1:138:A:ASN:HA	4	0.26
(1,228)	1:39:A:LEU:H	1:39:A:LEU:HB3	12	0.26
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG11	1	0.26
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG12	1	0.26
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG13	1	0.26
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG11	1	0.26
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG12	1	0.26
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG13	1	0.26
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG11	1	0.26
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG12	1	0.26
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG13	1	0.26
(1,93)	1:20:A:PHE:HA	1:22:A:GLU:H	1	0.26
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD21	13	0.26
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD22	13	0.26
(1,83)	1:19:A:THR:HG21	1:99:A:LEU:HD23	13	0.26
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD21	13	0.26
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD22	13	0.26
(1,83)	1:19:A:THR:HG22	1:99:A:LEU:HD23	13	0.26
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD21	13	0.26
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD22	13	0.26
(1,83)	1:19:A:THR:HG23	1:99:A:LEU:HD23	13	0.26
(1,65)	1:18:A:MET:HE1	1:52:A:VAL:HG21	8	0.26
(1,65)	1:18:A:MET:HE1	1:52:A:VAL:HG22	8	0.26
(1,65)	1:18:A:MET:HE1	1:52:A:VAL:HG23	8	0.26
(1,65)	1:18:A:MET:HE2	1:52:A:VAL:HG21	8	0.26
(1,65)	1:18:A:MET:HE2	1:52:A:VAL:HG22	8	0.26
(1,65)	1:18:A:MET:HE2	1:52:A:VAL:HG23	8	0.26
(1,65)	1:18:A:MET:HE3	1:52:A:VAL:HG21	8	0.26
(1,65)	1:18:A:MET:HE3	1:52:A:VAL:HG22	8	0.26
(1,65)	1:18:A:MET:HE3	1:52:A:VAL:HG23	8	0.26
(1,42)	1:17:A:ASP:HB3	1:18:A:MET:H	2	0.26
(1,38)	1:17:A:ASP:H	1:17:A:ASP:HB2	12	0.26
(1,2478)	1:93:A:LYS:H	1:147:B:LYS:HD2	2	0.25
(1,2471)	1:147:A:LYS:HG3	1:93:B:LYS:H	6	0.25
(1,2457)	1:143:A:LYS:HG2	1:97:B:GLU:H	11	0.25
(1,2396)	1:150:A:SER:H	1:90:B:LYS:HD2	1	0.25
(1,2384)	1:151:A:ASP:H	1:90:B:LYS:HE2	12	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2363)	1:156:B:LEU:H	1:156:B:LEU:HB2	8	0.25
(1,2347)	1:154:B:ASN:H	1:154:B:ASN:HB2	13	0.25
(1,2319)	1:151:B:ASP:H	1:151:B:ASP:HB2	1	0.25
(1,2319)	1:151:B:ASP:H	1:151:B:ASP:HB2	3	0.25
(1,2241)	1:144:B:ASN:H	1:144:B:ASN:HB2	14	0.25
(1,2199)	1:140:B:GLU:H	1:140:B:GLU:HG3	8	0.25
(1,2189)	1:139:B:GLU:H	1:139:B:GLU:HG3	4	0.25
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB1	11	0.25
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB2	11	0.25
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB3	11	0.25
(1,2031)	1:115:B:GLU:H	1:115:B:GLU:HA	6	0.25
(1,1918)	1:96:B:GLU:H	1:96:B:GLU:HB2	4	0.25
(1,1886)	1:92:B:LEU:HD21	1:83:B:PHE:HZ	11	0.25
(1,1886)	1:92:B:LEU:HD22	1:83:B:PHE:HZ	11	0.25
(1,1886)	1:92:B:LEU:HD23	1:83:B:PHE:HZ	11	0.25
(1,1884)	1:92:B:LEU:HD21	1:83:B:PHE:HZ	11	0.25
(1,1884)	1:92:B:LEU:HD22	1:83:B:PHE:HZ	11	0.25
(1,1884)	1:92:B:LEU:HD23	1:83:B:PHE:HZ	11	0.25
(1,1806)	1:82:B:SER:H	1:82:B:SER:HB2	1	0.25
(1,1545)	1:51:B:ASN:H	1:51:B:ASN:HB2	8	0.25
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD11	1	0.25
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD12	1	0.25
(1,1442)	1:40:B:LEU:HD11	1:145:B:LEU:HD13	1	0.25
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD11	1	0.25
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD12	1	0.25
(1,1442)	1:40:B:LEU:HD12	1:145:B:LEU:HD13	1	0.25
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD11	1	0.25
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD12	1	0.25
(1,1442)	1:40:B:LEU:HD13	1:145:B:LEU:HD13	1	0.25
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG21	1	0.25
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG22	1	0.25
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG23	1	0.25
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG21	14	0.25
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG22	14	0.25
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG23	14	0.25
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG12	6	0.25
(1,1314)	1:24:B:ILE:H	1:24:B:ILE:HG13	6	0.25
(1,1298)	1:22:B:GLU:H	1:23:B:ARG:H	13	0.25
(1,1298)	1:22:B:GLU:H	1:23:B:ARG:H	15	0.25
(1,1250)	1:18:B:MET:HE1	1:51:B:ASN:HB3	15	0.25
(1,1250)	1:18:B:MET:HE2	1:51:B:ASN:HB3	15	0.25
(1,1250)	1:18:B:MET:HE3	1:51:B:ASN:HB3	15	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1196)	1:13:B:ARG:H	1:13:B:ARG:HB2	12	0.25
(1,1074)	1:146:A:GLU:H	1:146:A:GLU:HB2	1	0.25
(1,1008)	1:140:A:GLU:H	1:140:A:GLU:HB2	8	0.25
(1,991)	1:138:A:ASN:H	1:138:A:ASN:HB2	1	0.25
(1,957)	1:135:A:THR:H	1:135:A:THR:HB	10	0.25
(1,930)	1:130:A:LEU:H	1:130:A:LEU:HB2	5	0.25
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB1	8	0.25
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB2	8	0.25
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB3	8	0.25
(1,909)	1:126:A:LYS:H	1:126:A:LYS:HB2	2	0.25
(1,843)	1:116:A:ARG:H	1:116:A:ARG:HB2	8	0.25
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB2	1	0.25
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB3	1	0.25
(1,800)	1:104:A:LYS:H	1:104:A:LYS:HG3	3	0.25
(1,772)	1:101:A:GLU:H	1:101:A:GLU:HB2	9	0.25
(1,762)	1:99:A:LEU:HD21	1:19:A:THR:HB	5	0.25
(1,762)	1:99:A:LEU:HD22	1:19:A:THR:HB	5	0.25
(1,762)	1:99:A:LEU:HD23	1:19:A:THR:HB	5	0.25
(1,728)	1:96:A:GLU:H	1:96:A:GLU:HB2	8	0.25
(1,660)	1:89:A:GLY:HA3	1:90:A:LYS:H	7	0.25
(1,660)	1:89:A:GLY:HA3	1:90:A:LYS:H	9	0.25
(1,660)	1:89:A:GLY:HA3	1:90:A:LYS:H	14	0.25
(1,642)	1:85:A:TYR:HB3	1:86:A:GLY:H	5	0.25
(1,642)	1:85:A:TYR:HB3	1:86:A:GLY:H	10	0.25
(1,641)	1:85:A:TYR:H	1:86:A:GLY:H	14	0.25
(1,639)	1:85:A:TYR:H	1:85:A:TYR:HB2	2	0.25
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB1	12	0.25
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB2	12	0.25
(1,598)	1:80:A:ALA:H	1:80:A:ALA:HB3	12	0.25
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG11	7	0.25
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG12	7	0.25
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG13	7	0.25
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB1	11	0.25
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB2	11	0.25
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB3	11	0.25
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB1	13	0.25
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB2	13	0.25
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB3	13	0.25
(1,543)	1:75:A:LEU:HD21	1:96:A:GLU:HG2	8	0.25
(1,543)	1:75:A:LEU:HD22	1:96:A:GLU:HG2	8	0.25
(1,543)	1:75:A:LEU:HD23	1:96:A:GLU:HG2	8	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB1	1	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB2	1	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB3	1	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB1	5	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB2	5	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB3	5	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB1	7	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB2	7	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB3	7	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB1	9	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB2	9	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB3	9	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB1	10	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB2	10	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB3	10	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB1	11	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB2	11	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB3	11	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB1	12	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB2	12	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB3	12	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB1	14	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB2	14	0.25
(1,489)	1:72:A:ALA:H	1:72:A:ALA:HB3	14	0.25
(1,432)	1:64:A:PHE:H	1:65:A:ARG:H	1	0.25
(1,415)	1:59:A:LYS:H	1:60:A:ALA:H	2	0.25
(1,355)	1:51:A:ASN:H	1:51:A:ASN:HB2	2	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB1	1	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB2	1	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB3	1	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB1	9	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB2	9	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB3	9	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB1	10	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB2	10	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB3	10	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB1	11	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB2	11	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB3	11	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB1	12	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB2	12	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB3	12	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB1	14	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB2	14	0.25
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB3	14	0.25
(1,228)	1:39:A:LEU:H	1:39:A:LEU:HB3	6	0.25
(1,222)	1:38:A:CYS:H	1:38:A:CYS:HB2	14	0.25
(1,198)	1:33:A:LEU:H	1:33:A:LEU:HB3	15	0.25
(1,197)	1:33:A:LEU:H	1:33:A:LEU:HB3	15	0.25
(1,169)	1:26:A:TYR:H	1:26:A:TYR:HD2	15	0.25
(1,134)	1:24:A:ILE:HD11	1:40:A:LEU:HG	11	0.25
(1,134)	1:24:A:ILE:HD12	1:40:A:LEU:HG	11	0.25
(1,134)	1:24:A:ILE:HD13	1:40:A:LEU:HG	11	0.25
(1,2442)	1:140:A:GLU:H	1:100:B:LYS:HD3	12	0.24
(1,2439)	1:100:A:LYS:HE2	1:140:B:GLU:H	12	0.24
(1,2431)	1:97:A:GLU:HG2	1:143:B:LYS:H	6	0.24
(1,2374)	1:158:B:LYS:H	1:158:B:LYS:HB2	4	0.24
(1,2319)	1:151:B:ASP:H	1:151:B:ASP:HB2	8	0.24
(1,2199)	1:140:B:GLU:H	1:140:B:GLU:HG3	9	0.24
(1,2181)	1:138:B:ASN:H	1:138:B:ASN:HB2	1	0.24
(1,2126)	1:132:B:ARG:H	1:132:B:ARG:HA	7	0.24
(1,2125)	1:131:B:ALA:H	1:132:B:ARG:H	10	0.24
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB1	5	0.24
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB2	5	0.24
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB3	5	0.24
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB1	4	0.24
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB2	4	0.24
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB3	4	0.24
(1,2038)	1:117:B:ARG:H	1:118:B:GLU:H	15	0.24
(1,2032)	1:116:B:ARG:H	1:116:B:ARG:HA	14	0.24
(1,2024)	1:113:B:GLU:H	1:113:B:GLU:HA	2	0.24
(1,2017)	1:110:B:TRP:H	1:110:B:TRP:HB3	1	0.24
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB2	11	0.24
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB3	11	0.24
(1,1918)	1:96:B:GLU:H	1:96:B:GLU:HB2	3	0.24
(1,1918)	1:96:B:GLU:H	1:96:B:GLU:HB2	13	0.24
(1,1853)	1:90:B:LYS:H	1:90:B:LYS:HB2	1	0.24
(1,1853)	1:90:B:LYS:H	1:90:B:LYS:HB2	8	0.24
(1,1842)	1:88:B:SER:H	1:88:B:SER:HB2	3	0.24
(1,1839)	1:87:B:THR:H	1:88:B:SER:H	3	0.24
(1,1806)	1:82:B:SER:H	1:82:B:SER:HB2	2	0.24
(1,1806)	1:82:B:SER:H	1:82:B:SER:HB2	14	0.24
(1,1596)	1:57:B:LYS:H	1:57:B:LYS:HG2	3	0.24
(1,1545)	1:51:B:ASN:H	1:51:B:ASN:HB2	6	0.24
(1,1513)	1:47:B:LEU:HD21	1:138:B:ASN:HB2	9	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1513)	1:47:B:LEU:HD22	1:138:B:ASN:HB2	9	0.24
(1,1513)	1:47:B:LEU:HD23	1:138:B:ASN:HB2	9	0.24
(1,1435)	1:40:B:LEU:HD11	1:28:B:CYS:HB3	8	0.24
(1,1435)	1:40:B:LEU:HD12	1:28:B:CYS:HB3	8	0.24
(1,1435)	1:40:B:LEU:HD13	1:28:B:CYS:HB3	8	0.24
(1,1306)	1:23:B:ARG:H	1:23:B:ARG:HG2	3	0.24
(1,1298)	1:22:B:GLU:H	1:23:B:ARG:H	6	0.24
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD21	3	0.24
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD22	3	0.24
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD23	3	0.24
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD21	3	0.24
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD22	3	0.24
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD23	3	0.24
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD21	3	0.24
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD22	3	0.24
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD23	3	0.24
(1,1157)	1:154:A:ASN:H	1:154:A:ASN:HB2	6	0.24
(1,1129)	1:151:A:ASP:H	1:151:A:ASP:HB2	12	0.24
(1,965)	1:135:A:THR:HG21	1:17:A:ASP:H	3	0.24
(1,965)	1:135:A:THR:HG22	1:17:A:ASP:H	3	0.24
(1,965)	1:135:A:THR:HG23	1:17:A:ASP:H	3	0.24
(1,957)	1:135:A:THR:H	1:135:A:THR:HB	6	0.24
(1,945)	1:134:A:LYS:H	1:134:A:LYS:HG3	9	0.24
(1,928)	1:130:A:LEU:H	1:130:A:LEU:HA	9	0.24
(1,877)	1:122:A:GLU:H	1:122:A:GLU:HG2	5	0.24
(1,865)	1:120:A:GLU:H	1:120:A:GLU:HB2	9	0.24
(1,845)	1:117:A:ARG:H	1:117:A:ARG:HA	12	0.24
(1,836)	1:114:A:LEU:H	1:114:A:LEU:HA	2	0.24
(1,836)	1:114:A:LEU:H	1:114:A:LEU:HA	7	0.24
(1,829)	1:111:A:ILE:H	1:111:A:ILE:HA	8	0.24
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB2	5	0.24
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB3	5	0.24
(1,796)	1:103:A:ALA:HB1	1:15:A:LEU:HB2	10	0.24
(1,796)	1:103:A:ALA:HB2	1:15:A:LEU:HB2	10	0.24
(1,796)	1:103:A:ALA:HB3	1:15:A:LEU:HB2	10	0.24
(1,739)	1:97:A:GLU:H	1:97:A:GLU:HG2	5	0.24
(1,701)	1:93:A:LYS:H	1:93:A:LYS:HD2	5	0.24
(1,655)	1:88:A:SER:H	1:89:A:GLY:H	3	0.24
(1,649)	1:87:A:THR:H	1:88:A:SER:H	11	0.24
(1,647)	1:87:A:THR:H	1:87:A:THR:HB	14	0.24
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD11	8	0.24
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD12	8	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD13	8	0.24
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD11	11	0.24
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD12	11	0.24
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD13	11	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB1	1	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB2	1	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB3	1	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB1	2	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB2	2	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB3	2	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB1	5	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB2	5	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB3	5	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB1	7	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB2	7	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB3	7	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB1	14	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB2	14	0.24
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB3	14	0.24
(1,506)	1:74:A:THR:H	1:74:A:THR:HG21	15	0.24
(1,506)	1:74:A:THR:H	1:74:A:THR:HG22	15	0.24
(1,506)	1:74:A:THR:H	1:74:A:THR:HG23	15	0.24
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG11	13	0.24
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG12	13	0.24
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG13	13	0.24
(1,380)	1:53:A:ARG:H	1:53:A:ARG:HG2	7	0.24
(1,380)	1:53:A:ARG:H	1:53:A:ARG:HG3	7	0.24
(1,345)	1:49:A:ALA:HB1	1:50:A:GLN:H	13	0.24
(1,345)	1:49:A:ALA:HB2	1:50:A:GLN:H	13	0.24
(1,345)	1:49:A:ALA:HB3	1:50:A:GLN:H	13	0.24
(1,334)	1:48:A:ALA:HB1	1:18:A:MET:HG3	12	0.24
(1,334)	1:48:A:ALA:HB2	1:18:A:MET:HG3	12	0.24
(1,334)	1:48:A:ALA:HB3	1:18:A:MET:HG3	12	0.24
(1,331)	1:48:A:ALA:HB1	1:18:A:MET:HA	13	0.24
(1,331)	1:48:A:ALA:HB2	1:18:A:MET:HA	13	0.24
(1,331)	1:48:A:ALA:HB3	1:18:A:MET:HA	13	0.24
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB1	13	0.24
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB2	13	0.24
(1,325)	1:48:A:ALA:H	1:48:A:ALA:HB3	13	0.24
(1,229)	1:39:A:LEU:H	1:39:A:LEU:HB2	4	0.24
(1,228)	1:39:A:LEU:H	1:39:A:LEU:HB3	15	0.24
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG11	13	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG12	13	0.24
(1,156)	1:25:A:ILE:HD11	1:79:A:VAL:HG13	13	0.24
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG11	13	0.24
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG12	13	0.24
(1,156)	1:25:A:ILE:HD12	1:79:A:VAL:HG13	13	0.24
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG11	13	0.24
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG12	13	0.24
(1,156)	1:25:A:ILE:HD13	1:79:A:VAL:HG13	13	0.24
(1,134)	1:24:A:ILE:HD11	1:40:A:LEU:HG	8	0.24
(1,134)	1:24:A:ILE:HD12	1:40:A:LEU:HG	8	0.24
(1,134)	1:24:A:ILE:HD13	1:40:A:LEU:HG	8	0.24
(1,132)	1:24:A:ILE:HD11	1:40:A:LEU:HB3	6	0.24
(1,132)	1:24:A:ILE:HD12	1:40:A:LEU:HB3	6	0.24
(1,132)	1:24:A:ILE:HD13	1:40:A:LEU:HB3	6	0.24
(1,115)	1:23:A:ARG:H	1:23:A:ARG:HG3	11	0.24
(1,47)	1:18:A:MET:H	1:18:A:MET:HG3	1	0.24
(1,13)	1:15:A:LEU:H	1:15:A:LEU:HG	1	0.24
(1,6)	1:13:A:ARG:H	1:13:A:ARG:HB2	14	0.24
(1,2)	1:12:A:GLU:H	1:12:A:GLU:HB3	15	0.24
(1,1)	1:12:A:GLU:H	1:12:A:GLU:HA	7	0.24
(1,2486)	1:94:A:ALA:H	1:147:B:LYS:HE2	7	0.23
(1,2456)	1:97:A:GLU:H	1:143:B:LYS:HG3	1	0.23
(1,2452)	1:137:A:GLU:H	1:104:B:LYS:HE2	11	0.23
(1,2416)	1:147:A:LYS:H	1:93:B:LYS:HE2	15	0.23
(1,2363)	1:156:B:LEU:H	1:156:B:LEU:HB2	12	0.23
(1,2337)	1:153:B:GLU:H	1:153:B:GLU:HB3	8	0.23
(1,2249)	1:145:B:LEU:H	1:145:B:LEU:HG	9	0.23
(1,2249)	1:145:B:LEU:H	1:145:B:LEU:HG	14	0.23
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB1	15	0.23
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB2	15	0.23
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB3	15	0.23
(1,2123)	1:131:B:ALA:H	1:131:B:ALA:HA	10	0.23
(1,2118)	1:130:B:LEU:H	1:130:B:LEU:HA	14	0.23
(1,2099)	1:126:B:LYS:H	1:126:B:LYS:HB2	3	0.23
(1,2038)	1:117:B:ARG:H	1:118:B:GLU:H	2	0.23
(1,2038)	1:117:B:ARG:H	1:118:B:GLU:H	10	0.23
(1,2033)	1:116:B:ARG:H	1:116:B:ARG:HB2	13	0.23
(1,2026)	1:114:B:LEU:H	1:114:B:LEU:HA	7	0.23
(1,2011)	1:108:B:LYS:H	1:108:B:LYS:HB2	6	0.23
(1,2001)	1:105:B:MET:H	1:105:B:MET:HB2	12	0.23
(1,2001)	1:105:B:MET:H	1:105:B:MET:HB2	13	0.23
(1,1971)	1:102:B:LYS:H	1:102:B:LYS:HB2	7	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1918)	1:96:B:GLU:H	1:96:B:GLU:HB2	6	0.23
(1,1906)	1:95:B:LYS:H	1:95:B:LYS:HB2	10	0.23
(1,1829)	1:85:B:TYR:H	1:85:B:TYR:HB2	8	0.23
(1,1806)	1:82:B:SER:H	1:82:B:SER:HB2	3	0.23
(1,1761)	1:78:B:LEU:H	1:78:B:LEU:HB3	10	0.23
(1,1654)	1:68:B:VAL:HG11	1:102:B:LYS:HE2	7	0.23
(1,1654)	1:68:B:VAL:HG12	1:102:B:LYS:HE2	7	0.23
(1,1654)	1:68:B:VAL:HG13	1:102:B:LYS:HE2	7	0.23
(1,1650)	1:68:B:VAL:HG11	1:106:B:ARG:HD2	6	0.23
(1,1650)	1:68:B:VAL:HG12	1:106:B:ARG:HD2	6	0.23
(1,1650)	1:68:B:VAL:HG13	1:106:B:ARG:HD2	6	0.23
(1,1599)	1:58:B:TRP:H	1:58:B:TRP:HB3	13	0.23
(1,1592)	1:56:B:ASN:H	1:57:B:LYS:H	4	0.23
(1,1419)	1:39:B:LEU:H	1:39:B:LEU:HB2	12	0.23
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG21	10	0.23
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG22	10	0.23
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG23	10	0.23
(1,1304)	1:23:B:ARG:H	1:23:B:ARG:HB2	1	0.23
(1,1304)	1:23:B:ARG:H	1:23:B:ARG:HB2	14	0.23
(1,1298)	1:22:B:GLU:H	1:23:B:ARG:H	8	0.23
(1,1298)	1:22:B:GLU:H	1:23:B:ARG:H	9	0.23
(1,1283)	1:20:B:PHE:HA	1:22:B:GLU:H	3	0.23
(1,1212)	1:15:B:LEU:HD11	1:99:B:LEU:HD21	14	0.23
(1,1212)	1:15:B:LEU:HD11	1:99:B:LEU:HD22	14	0.23
(1,1212)	1:15:B:LEU:HD11	1:99:B:LEU:HD23	14	0.23
(1,1212)	1:15:B:LEU:HD12	1:99:B:LEU:HD21	14	0.23
(1,1212)	1:15:B:LEU:HD12	1:99:B:LEU:HD22	14	0.23
(1,1212)	1:15:B:LEU:HD12	1:99:B:LEU:HD23	14	0.23
(1,1212)	1:15:B:LEU:HD13	1:99:B:LEU:HD21	14	0.23
(1,1212)	1:15:B:LEU:HD13	1:99:B:LEU:HD22	14	0.23
(1,1212)	1:15:B:LEU:HD13	1:99:B:LEU:HD23	14	0.23
(1,1191)	1:12:B:GLU:H	1:12:B:GLU:HA	3	0.23
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD11	14	0.23
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD12	14	0.23
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD13	14	0.23
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD11	14	0.23
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD12	14	0.23
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD13	14	0.23
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD11	14	0.23
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD12	14	0.23
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD13	14	0.23
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD11	14	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD12	14	0.23
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD13	14	0.23
(1,1121)	1:150:A:SER:H	1:150:A:SER:HB2	1	0.23
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD11	10	0.23
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD12	10	0.23
(1,1061)	1:145:A:LEU:H	1:145:A:LEU:HD13	10	0.23
(1,1059)	1:145:A:LEU:H	1:145:A:LEU:HG	6	0.23
(1,1058)	1:145:A:LEU:H	1:145:A:LEU:HB2	3	0.23
(1,991)	1:138:A:ASN:H	1:138:A:ASN:HB2	8	0.23
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD11	9	0.23
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD12	9	0.23
(1,978)	1:136:A:LEU:H	1:136:A:LEU:HD13	9	0.23
(1,969)	1:135:A:THR:HG21	1:18:A:MET:HA	2	0.23
(1,969)	1:135:A:THR:HG22	1:18:A:MET:HA	2	0.23
(1,969)	1:135:A:THR:HG23	1:18:A:MET:HA	2	0.23
(1,936)	1:132:A:ARG:H	1:132:A:ARG:HA	14	0.23
(1,916)	1:127:A:ARG:H	1:127:A:ARG:HB2	9	0.23
(1,908)	1:126:A:LYS:H	1:126:A:LYS:HB3	6	0.23
(1,865)	1:120:A:GLU:H	1:120:A:GLU:HB2	1	0.23
(1,846)	1:117:A:ARG:H	1:117:A:ARG:HB2	8	0.23
(1,845)	1:117:A:ARG:H	1:117:A:ARG:HA	6	0.23
(1,845)	1:117:A:ARG:H	1:117:A:ARG:HA	9	0.23
(1,842)	1:116:A:ARG:H	1:116:A:ARG:HA	14	0.23
(1,841)	1:115:A:GLU:H	1:115:A:GLU:HA	14	0.23
(1,836)	1:114:A:LEU:H	1:114:A:LEU:HA	4	0.23
(1,831)	1:112:A:GLN:H	1:112:A:GLN:HA	4	0.23
(1,829)	1:111:A:ILE:H	1:111:A:ILE:HA	6	0.23
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB2	9	0.23
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB3	9	0.23
(1,778)	1:101:A:GLU:HB2	1:102:A:LYS:H	9	0.23
(1,763)	1:99:A:LEU:HD21	1:75:A:LEU:HB3	12	0.23
(1,763)	1:99:A:LEU:HD22	1:75:A:LEU:HB3	12	0.23
(1,763)	1:99:A:LEU:HD23	1:75:A:LEU:HB3	12	0.23
(1,651)	1:88:A:SER:H	1:88:A:SER:HA	4	0.23
(1,651)	1:88:A:SER:H	1:88:A:SER:HA	6	0.23
(1,651)	1:88:A:SER:H	1:88:A:SER:HA	8	0.23
(1,651)	1:88:A:SER:H	1:88:A:SER:HA	9	0.23
(1,651)	1:88:A:SER:H	1:88:A:SER:HA	12	0.23
(1,651)	1:88:A:SER:H	1:88:A:SER:HA	13	0.23
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD11	4	0.23
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD12	4	0.23
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD13	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,615)	1:82:A:SER:H	1:82:A:SER:HB3	12	0.23
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD21	15	0.23
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD22	15	0.23
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD23	15	0.23
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD21	15	0.23
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD22	15	0.23
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD23	15	0.23
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD21	15	0.23
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD22	15	0.23
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD23	15	0.23
(1,593)	1:79:A:VAL:HG11	1:80:A:ALA:H	11	0.23
(1,593)	1:79:A:VAL:HG12	1:80:A:ALA:H	11	0.23
(1,593)	1:79:A:VAL:HG13	1:80:A:ALA:H	11	0.23
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG11	15	0.23
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG12	15	0.23
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG13	15	0.23
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB1	3	0.23
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB2	3	0.23
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB3	3	0.23
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB1	12	0.23
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB2	12	0.23
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB3	12	0.23
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB1	15	0.23
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB2	15	0.23
(1,562)	1:77:A:ALA:H	1:77:A:ALA:HB3	15	0.23
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG21	1	0.23
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG22	1	0.23
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG23	1	0.23
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG21	14	0.23
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG22	14	0.23
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG23	14	0.23
(1,485)	1:71:A:GLN:HB2	1:72:A:ALA:H	11	0.23
(1,422)	1:61:A:GLN:H	1:61:A:GLN:HA	7	0.23
(1,418)	1:60:A:ALA:H	1:60:A:ALA:HA	1	0.23
(1,418)	1:60:A:ALA:H	1:60:A:ALA:HA	10	0.23
(1,418)	1:60:A:ALA:H	1:60:A:ALA:HA	13	0.23
(1,411)	1:59:A:LYS:H	1:59:A:LYS:HA	4	0.23
(1,348)	1:50:A:GLN:H	1:50:A:GLN:HG3	12	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB1	1	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB2	1	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB3	1	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB1	6	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB2	6	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB3	6	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB1	7	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB2	7	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB3	7	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB1	9	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB2	9	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB3	9	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB1	10	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB2	10	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB3	10	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB1	12	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB2	12	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB3	12	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB1	13	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB2	13	0.23
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB3	13	0.23
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD11	13	0.23
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD12	13	0.23
(1,252)	1:40:A:LEU:HD11	1:145:A:LEU:HD13	13	0.23
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD11	13	0.23
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD12	13	0.23
(1,252)	1:40:A:LEU:HD12	1:145:A:LEU:HD13	13	0.23
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD11	13	0.23
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD12	13	0.23
(1,252)	1:40:A:LEU:HD13	1:145:A:LEU:HD13	13	0.23
(1,237)	1:40:A:LEU:H	1:40:A:LEU:HB2	13	0.23
(1,222)	1:38:A:CYS:H	1:38:A:CYS:HB2	8	0.23
(1,196)	1:31:A:GLN:H	1:31:A:GLN:HA	1	0.23
(1,196)	1:31:A:GLN:H	1:31:A:GLN:HA	11	0.23
(1,196)	1:31:A:GLN:H	1:31:A:GLN:HA	14	0.23
(1,169)	1:26:A:TYR:H	1:26:A:TYR:HD2	10	0.23
(1,115)	1:23:A:ARG:H	1:23:A:ARG:HG3	5	0.23
(1,79)	1:19:A:THR:HG21	1:99:A:LEU:HB3	6	0.23
(1,79)	1:19:A:THR:HG22	1:99:A:LEU:HB3	6	0.23
(1,79)	1:19:A:THR:HG23	1:99:A:LEU:HB3	6	0.23
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG21	11	0.23
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG22	11	0.23
(1,68)	1:18:A:MET:HE1	1:135:A:THR:HG23	11	0.23
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG21	11	0.23
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG22	11	0.23
(1,68)	1:18:A:MET:HE2	1:135:A:THR:HG23	11	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG21	11	0.23
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG22	11	0.23
(1,68)	1:18:A:MET:HE3	1:135:A:THR:HG23	11	0.23
(1,38)	1:17:A:ASP:H	1:17:A:ASP:HB2	6	0.23
(1,38)	1:17:A:ASP:H	1:17:A:ASP:HB2	8	0.23
(1,25)	1:15:A:LEU:HD11	1:103:A:ALA:HA	13	0.23
(1,25)	1:15:A:LEU:HD12	1:103:A:ALA:HA	13	0.23
(1,25)	1:15:A:LEU:HD13	1:103:A:ALA:HA	13	0.23
(1,6)	1:13:A:ARG:H	1:13:A:ARG:HB2	4	0.23
(1,2467)	1:147:A:LYS:HB3	1:93:B:LYS:H	3	0.22
(1,2445)	1:100:A:LYS:HE3	1:139:B:GLU:H	4	0.22
(1,2437)	1:100:A:LYS:HE3	1:140:B:GLU:H	11	0.22
(1,2403)	1:93:A:LYS:HB2	1:147:B:LYS:H	15	0.22
(1,2272)	1:147:B:LYS:H	1:147:B:LYS:HB3	5	0.22
(1,2199)	1:140:B:GLU:H	1:140:B:GLU:HG3	4	0.22
(1,2181)	1:138:B:ASN:H	1:138:B:ASN:HB2	6	0.22
(1,2123)	1:131:B:ALA:H	1:131:B:ALA:HA	4	0.22
(1,2116)	1:129:B:GLU:H	1:129:B:GLU:HB2	5	0.22
(1,2116)	1:129:B:GLU:H	1:129:B:GLU:HB2	15	0.22
(1,2068)	1:122:B:GLU:H	1:122:B:GLU:HB2	5	0.22
(1,2055)	1:120:B:GLU:H	1:120:B:GLU:HB2	9	0.22
(1,2034)	1:116:B:ARG:H	1:116:B:ARG:HG3	13	0.22
(1,2029)	1:114:B:LEU:H	1:114:B:LEU:HG	14	0.22
(1,2024)	1:113:B:GLU:H	1:113:B:GLU:HA	15	0.22
(1,2019)	1:111:B:ILE:H	1:111:B:ILE:HA	5	0.22
(1,2018)	1:110:B:TRP:H	1:111:B:ILE:H	1	0.22
(1,1877)	1:92:B:LEU:H	1:94:B:ALA:HB2	10	0.22
(1,1829)	1:85:B:TYR:H	1:85:B:TYR:HB2	3	0.22
(1,1761)	1:78:B:LEU:H	1:78:B:LEU:HB3	6	0.22
(1,1761)	1:78:B:LEU:H	1:78:B:LEU:HB3	12	0.22
(1,1592)	1:56:B:ASN:H	1:57:B:LYS:H	2	0.22
(1,1545)	1:51:B:ASN:H	1:51:B:ASN:HB2	5	0.22
(1,1524)	1:48:B:ALA:HB1	1:18:B:MET:HG3	11	0.22
(1,1524)	1:48:B:ALA:HB2	1:18:B:MET:HG3	11	0.22
(1,1524)	1:48:B:ALA:HB3	1:18:B:MET:HG3	11	0.22
(1,1436)	1:40:B:LEU:HD11	1:28:B:CYS:HB2	4	0.22
(1,1436)	1:40:B:LEU:HD12	1:28:B:CYS:HB2	4	0.22
(1,1436)	1:40:B:LEU:HD13	1:28:B:CYS:HB2	4	0.22
(1,1412)	1:38:B:CYS:H	1:38:B:CYS:HB2	1	0.22
(1,1412)	1:38:B:CYS:H	1:38:B:CYS:HB2	11	0.22
(1,1388)	1:33:B:LEU:H	1:33:B:LEU:HB3	12	0.22
(1,1388)	1:33:B:LEU:H	1:33:B:LEU:HB3	13	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1387)	1:33:B:LEU:H	1:33:B:LEU:HB3	12	0.22
(1,1387)	1:33:B:LEU:H	1:33:B:LEU:HB3	13	0.22
(1,1327)	1:24:B:ILE:HD11	1:41:B:THR:HA	4	0.22
(1,1327)	1:24:B:ILE:HD12	1:41:B:THR:HA	4	0.22
(1,1327)	1:24:B:ILE:HD13	1:41:B:THR:HA	4	0.22
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG21	9	0.22
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG22	9	0.22
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG23	9	0.22
(1,1298)	1:22:B:GLU:H	1:23:B:ARG:H	4	0.22
(1,1228)	1:17:B:ASP:H	1:17:B:ASP:HB2	6	0.22
(1,1212)	1:15:B:LEU:HD11	1:99:B:LEU:HD21	5	0.22
(1,1212)	1:15:B:LEU:HD11	1:99:B:LEU:HD22	5	0.22
(1,1212)	1:15:B:LEU:HD11	1:99:B:LEU:HD23	5	0.22
(1,1212)	1:15:B:LEU:HD12	1:99:B:LEU:HD21	5	0.22
(1,1212)	1:15:B:LEU:HD12	1:99:B:LEU:HD22	5	0.22
(1,1212)	1:15:B:LEU:HD12	1:99:B:LEU:HD23	5	0.22
(1,1212)	1:15:B:LEU:HD13	1:99:B:LEU:HD21	5	0.22
(1,1212)	1:15:B:LEU:HD13	1:99:B:LEU:HD22	5	0.22
(1,1212)	1:15:B:LEU:HD13	1:99:B:LEU:HD23	5	0.22
(1,1184)	1:158:A:LYS:H	1:158:A:LYS:HB2	2	0.22
(1,1184)	1:158:A:LYS:H	1:158:A:LYS:HB2	3	0.22
(1,1157)	1:154:A:ASN:H	1:154:A:ASN:HB2	13	0.22
(1,1074)	1:146:A:GLU:H	1:146:A:GLU:HB2	6	0.22
(1,1074)	1:146:A:GLU:H	1:146:A:GLU:HB2	10	0.22
(1,1058)	1:145:A:LEU:H	1:145:A:LEU:HB2	11	0.22
(1,1058)	1:145:A:LEU:H	1:145:A:LEU:HB2	12	0.22
(1,1051)	1:144:A:ASN:H	1:144:A:ASN:HB2	10	0.22
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG21	2	0.22
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG22	2	0.22
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG23	2	0.22
(1,991)	1:138:A:ASN:H	1:138:A:ASN:HB2	9	0.22
(1,934)	1:131:A:ALA:H	1:131:A:ALA:HB1	9	0.22
(1,934)	1:131:A:ALA:H	1:131:A:ALA:HB2	9	0.22
(1,934)	1:131:A:ALA:H	1:131:A:ALA:HB3	9	0.22
(1,902)	1:125:A:ARG:H	1:126:A:LYS:H	6	0.22
(1,891)	1:124:A:ARG:H	1:124:A:ARG:HD3	6	0.22
(1,845)	1:117:A:ARG:H	1:117:A:ARG:HA	1	0.22
(1,845)	1:117:A:ARG:H	1:117:A:ARG:HA	2	0.22
(1,845)	1:117:A:ARG:H	1:117:A:ARG:HA	8	0.22
(1,845)	1:117:A:ARG:H	1:117:A:ARG:HA	14	0.22
(1,843)	1:116:A:ARG:H	1:116:A:ARG:HB2	9	0.22
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB2	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB3	10	0.22
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB2	13	0.22
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB3	13	0.22
(1,811)	1:105:A:MET:H	1:105:A:MET:HB2	15	0.22
(1,801)	1:104:A:LYS:H	1:104:A:LYS:HG2	6	0.22
(1,772)	1:101:A:GLU:H	1:101:A:GLU:HB2	11	0.22
(1,716)	1:95:A:LYS:H	1:95:A:LYS:HB2	10	0.22
(1,663)	1:90:A:LYS:H	1:90:A:LYS:HB2	8	0.22
(1,660)	1:89:A:GLY:HA3	1:90:A:LYS:H	6	0.22
(1,660)	1:89:A:GLY:HA3	1:90:A:LYS:H	8	0.22
(1,660)	1:89:A:GLY:HA3	1:90:A:LYS:H	10	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD11	2	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD12	2	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD13	2	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD11	6	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD12	6	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD13	6	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD11	9	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD12	9	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD13	9	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD11	12	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD12	12	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD13	12	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD11	13	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD12	13	0.22
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD13	13	0.22
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD21	14	0.22
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD22	14	0.22
(1,596)	1:79:A:VAL:HG21	1:92:A:LEU:HD23	14	0.22
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD21	14	0.22
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD22	14	0.22
(1,596)	1:79:A:VAL:HG22	1:92:A:LEU:HD23	14	0.22
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD21	14	0.22
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD22	14	0.22
(1,596)	1:79:A:VAL:HG23	1:92:A:LEU:HD23	14	0.22
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG21	2	0.22
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG22	2	0.22
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG23	2	0.22
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG21	11	0.22
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG22	11	0.22
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG23	11	0.22
(1,485)	1:71:A:GLN:HB2	1:72:A:ALA:H	8	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,430)	1:64:A:PHE:H	1:64:A:PHE:HB2	13	0.22
(1,418)	1:60:A:ALA:H	1:60:A:ALA:HA	9	0.22
(1,417)	1:59:A:LYS:HG2	1:60:A:ALA:H	15	0.22
(1,413)	1:59:A:LYS:H	1:59:A:LYS:HB2	12	0.22
(1,401)	1:56:A:ASN:H	1:56:A:ASN:HA	8	0.22
(1,397)	1:55:A:GLY:HA3	1:56:A:ASN:H	5	0.22
(1,332)	1:48:A:ALA:HB1	1:18:A:MET:HB3	14	0.22
(1,332)	1:48:A:ALA:HB2	1:18:A:MET:HB3	14	0.22
(1,332)	1:48:A:ALA:HB3	1:18:A:MET:HB3	14	0.22
(1,331)	1:48:A:ALA:HB1	1:18:A:MET:HA	5	0.22
(1,331)	1:48:A:ALA:HB2	1:18:A:MET:HA	5	0.22
(1,331)	1:48:A:ALA:HB3	1:18:A:MET:HA	5	0.22
(1,323)	1:47:A:LEU:HD21	1:138:A:ASN:HB2	8	0.22
(1,323)	1:47:A:LEU:HD22	1:138:A:ASN:HB2	8	0.22
(1,323)	1:47:A:LEU:HD23	1:138:A:ASN:HB2	8	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB1	2	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB2	2	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB3	2	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB1	3	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB2	3	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB3	3	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB1	5	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB2	5	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB3	5	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB1	8	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB2	8	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB3	8	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB1	11	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB2	11	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB3	11	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB1	15	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB2	15	0.22
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB3	15	0.22
(1,222)	1:38:A:CYS:H	1:38:A:CYS:HB2	5	0.22
(1,222)	1:38:A:CYS:H	1:38:A:CYS:HB2	11	0.22
(1,211)	1:36:A:ILE:HD11	1:37:A:GLY:H	10	0.22
(1,211)	1:36:A:ILE:HD12	1:37:A:GLY:H	10	0.22
(1,211)	1:36:A:ILE:HD13	1:37:A:GLY:H	10	0.22
(1,211)	1:36:A:ILE:HD11	1:37:A:GLY:H	11	0.22
(1,211)	1:36:A:ILE:HD12	1:37:A:GLY:H	11	0.22
(1,211)	1:36:A:ILE:HD13	1:37:A:GLY:H	11	0.22
(1,198)	1:33:A:LEU:H	1:33:A:LEU:HB3	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,197)	1:33:A:LEU:H	1:33:A:LEU:HB3	4	0.22
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG21	3	0.22
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG22	3	0.22
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG23	3	0.22
(1,115)	1:23:A:ARG:H	1:23:A:ARG:HG3	4	0.22
(1,55)	1:18:A:MET:HE1	1:48:A:ALA:HA	14	0.22
(1,55)	1:18:A:MET:HE2	1:48:A:ALA:HA	14	0.22
(1,55)	1:18:A:MET:HE3	1:48:A:ALA:HA	14	0.22
(1,38)	1:17:A:ASP:H	1:17:A:ASP:HB2	4	0.22
(1,13)	1:15:A:LEU:H	1:15:A:LEU:HG	8	0.22
(1,2485)	1:147:A:LYS:HE2	1:94:B:ALA:H	15	0.21
(1,2483)	1:147:A:LYS:HE3	1:94:B:ALA:H	9	0.21
(1,2445)	1:100:A:LYS:HE3	1:139:B:GLU:H	1	0.21
(1,2432)	1:143:A:LYS:H	1:97:B:GLU:HG2	10	0.21
(1,2398)	1:150:A:SER:H	1:90:B:LYS:HG3	5	0.21
(1,2363)	1:156:B:LEU:H	1:156:B:LEU:HB2	14	0.21
(1,2287)	1:148:B:GLU:H	1:148:B:GLU:HG2	1	0.21
(1,2287)	1:148:B:GLU:H	1:148:B:GLU:HG2	6	0.21
(1,2230)	1:143:B:LYS:H	1:143:B:LYS:HB2	14	0.21
(1,2181)	1:138:B:ASN:H	1:138:B:ASN:HB2	14	0.21
(1,2157)	1:135:B:THR:HG21	1:17:B:ASP:HB2	7	0.21
(1,2157)	1:135:B:THR:HG22	1:17:B:ASP:HB2	7	0.21
(1,2157)	1:135:B:THR:HG23	1:17:B:ASP:HB2	7	0.21
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB1	2	0.21
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB2	2	0.21
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB3	2	0.21
(1,2120)	1:130:B:LEU:H	1:130:B:LEU:HB2	4	0.21
(1,2118)	1:130:B:LEU:H	1:130:B:LEU:HA	12	0.21
(1,2068)	1:122:B:GLU:H	1:122:B:GLU:HB2	3	0.21
(1,2055)	1:120:B:GLU:H	1:120:B:GLU:HB2	4	0.21
(1,2038)	1:117:B:ARG:H	1:118:B:GLU:H	1	0.21
(1,2038)	1:117:B:ARG:H	1:118:B:GLU:H	5	0.21
(1,2038)	1:117:B:ARG:H	1:118:B:GLU:H	14	0.21
(1,2032)	1:116:B:ARG:H	1:116:B:ARG:HA	1	0.21
(1,2028)	1:114:B:LEU:H	1:114:B:LEU:HB2	11	0.21
(1,2027)	1:114:B:LEU:H	1:114:B:LEU:HB3	15	0.21
(1,2022)	1:112:B:GLN:H	1:112:B:GLN:HB2	8	0.21
(1,2007)	1:107:B:GLU:H	1:107:B:GLU:HA	4	0.21
(1,2007)	1:107:B:GLU:H	1:107:B:GLU:HA	8	0.21
(1,2001)	1:105:B:MET:H	1:105:B:MET:HB2	3	0.21
(1,1971)	1:102:B:LYS:H	1:102:B:LYS:HB2	13	0.21
(1,1929)	1:97:B:GLU:H	1:97:B:GLU:HG2	13	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1906)	1:95:B:LYS:H	1:95:B:LYS:HB2	15	0.21
(1,1834)	1:86:B:GLY:H	1:86:B:GLY:HA2	6	0.21
(1,1834)	1:86:B:GLY:H	1:86:B:GLY:HA2	15	0.21
(1,1761)	1:78:B:LEU:H	1:78:B:LEU:HB3	9	0.21
(1,1761)	1:78:B:LEU:H	1:78:B:LEU:HB3	14	0.21
(1,1592)	1:56:B:ASN:H	1:57:B:LYS:H	8	0.21
(1,1592)	1:56:B:ASN:H	1:57:B:LYS:H	9	0.21
(1,1402)	1:37:B:GLY:H	1:37:B:GLY:HA3	1	0.21
(1,1402)	1:37:B:GLY:H	1:37:B:GLY:HA3	4	0.21
(1,1402)	1:37:B:GLY:H	1:37:B:GLY:HA3	5	0.21
(1,1402)	1:37:B:GLY:H	1:37:B:GLY:HA3	6	0.21
(1,1402)	1:37:B:GLY:H	1:37:B:GLY:HA3	7	0.21
(1,1402)	1:37:B:GLY:H	1:37:B:GLY:HA3	8	0.21
(1,1402)	1:37:B:GLY:H	1:37:B:GLY:HA3	9	0.21
(1,1402)	1:37:B:GLY:H	1:37:B:GLY:HA3	10	0.21
(1,1402)	1:37:B:GLY:H	1:37:B:GLY:HA3	11	0.21
(1,1402)	1:37:B:GLY:H	1:37:B:GLY:HA3	12	0.21
(1,1402)	1:37:B:GLY:H	1:37:B:GLY:HA3	13	0.21
(1,1402)	1:37:B:GLY:H	1:37:B:GLY:HA3	14	0.21
(1,1402)	1:37:B:GLY:H	1:37:B:GLY:HA3	15	0.21
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB1	2	0.21
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB2	2	0.21
(1,1330)	1:24:B:ILE:HD11	1:44:B:ALA:HB3	2	0.21
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB1	2	0.21
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB2	2	0.21
(1,1330)	1:24:B:ILE:HD12	1:44:B:ALA:HB3	2	0.21
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB1	2	0.21
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB2	2	0.21
(1,1330)	1:24:B:ILE:HD13	1:44:B:ALA:HB3	2	0.21
(1,1306)	1:23:B:ARG:H	1:23:B:ARG:HG2	4	0.21
(1,1298)	1:22:B:GLU:H	1:23:B:ARG:H	1	0.21
(1,1286)	1:21:B:GLY:H	1:21:B:GLY:HA3	2	0.21
(1,1286)	1:21:B:GLY:H	1:21:B:GLY:HA3	3	0.21
(1,1286)	1:21:B:GLY:H	1:21:B:GLY:HA3	10	0.21
(1,1286)	1:21:B:GLY:H	1:21:B:GLY:HA3	11	0.21
(1,1285)	1:21:B:GLY:H	1:21:B:GLY:HA3	2	0.21
(1,1285)	1:21:B:GLY:H	1:21:B:GLY:HA3	3	0.21
(1,1285)	1:21:B:GLY:H	1:21:B:GLY:HA3	10	0.21
(1,1285)	1:21:B:GLY:H	1:21:B:GLY:HA3	11	0.21
(1,1283)	1:20:B:PHE:HA	1:22:B:GLU:H	1	0.21
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD21	14	0.21
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD22	14	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD23	14	0.21
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD21	14	0.21
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD22	14	0.21
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD23	14	0.21
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD21	14	0.21
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD22	14	0.21
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD23	14	0.21
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB1	8	0.21
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB2	8	0.21
(1,1246)	1:18:B:MET:HE1	1:48:B:ALA:HB3	8	0.21
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB1	8	0.21
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB2	8	0.21
(1,1246)	1:18:B:MET:HE2	1:48:B:ALA:HB3	8	0.21
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB1	8	0.21
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB2	8	0.21
(1,1246)	1:18:B:MET:HE3	1:48:B:ALA:HB3	8	0.21
(1,1166)	1:155:A:LYS:H	1:155:A:LYS:HE3	3	0.21
(1,1135)	1:152:A:LEU:H	1:152:A:LEU:HB3	1	0.21
(1,1135)	1:152:A:LEU:H	1:152:A:LEU:HB3	4	0.21
(1,1135)	1:152:A:LEU:H	1:152:A:LEU:HB3	13	0.21
(1,1119)	1:149:A:LEU:HD21	1:28:A:CYS:HA	8	0.21
(1,1119)	1:149:A:LEU:HD22	1:28:A:CYS:HA	8	0.21
(1,1119)	1:149:A:LEU:HD23	1:28:A:CYS:HA	8	0.21
(1,1097)	1:148:A:GLU:H	1:148:A:GLU:HG2	15	0.21
(1,1074)	1:146:A:GLU:H	1:146:A:GLU:HB2	2	0.21
(1,1058)	1:145:A:LEU:H	1:145:A:LEU:HB2	8	0.21
(1,1051)	1:144:A:ASN:H	1:144:A:ASN:HB2	8	0.21
(1,1051)	1:144:A:ASN:H	1:144:A:ASN:HB2	14	0.21
(1,1037)	1:142:A:ILE:HG21	1:44:A:ALA:HA	7	0.21
(1,1037)	1:142:A:ILE:HG22	1:44:A:ALA:HA	7	0.21
(1,1037)	1:142:A:ILE:HG23	1:44:A:ALA:HA	7	0.21
(1,945)	1:134:A:LYS:H	1:134:A:LYS:HG3	7	0.21
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB1	3	0.21
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB2	3	0.21
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB3	3	0.21
(1,916)	1:127:A:ARG:H	1:127:A:ARG:HB2	1	0.21
(1,909)	1:126:A:LYS:H	1:126:A:LYS:HB2	6	0.21
(1,823)	1:109:A:LEU:H	1:109:A:LEU:HA	8	0.21
(1,815)	1:106:A:ARG:H	1:106:A:ARG:HA	6	0.21
(1,815)	1:106:A:ARG:H	1:106:A:ARG:HA	12	0.21
(1,811)	1:105:A:MET:H	1:105:A:MET:HB2	8	0.21
(1,795)	1:103:A:ALA:HB1	1:15:A:LEU:HB3	11	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,795)	1:103:A:ALA:HB2	1:15:A:LEU:HB3	11	0.21
(1,795)	1:103:A:ALA:HB3	1:15:A:LEU:HB3	11	0.21
(1,778)	1:101:A:GLU:HB2	1:102:A:LYS:H	13	0.21
(1,696)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	12	0.21
(1,696)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	12	0.21
(1,696)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	12	0.21
(1,694)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	12	0.21
(1,694)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	12	0.21
(1,694)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	12	0.21
(1,673)	1:90:A:LYS:HB2	1:91:A:GLU:H	14	0.21
(1,663)	1:90:A:LYS:H	1:90:A:LYS:HB2	4	0.21
(1,663)	1:90:A:LYS:H	1:90:A:LYS:HB2	14	0.21
(1,656)	1:89:A:GLY:H	1:89:A:GLY:HA3	7	0.21
(1,653)	1:88:A:SER:H	1:88:A:SER:HB3	1	0.21
(1,653)	1:88:A:SER:H	1:88:A:SER:HB3	11	0.21
(1,652)	1:88:A:SER:H	1:88:A:SER:HB2	4	0.21
(1,644)	1:86:A:GLY:H	1:86:A:GLY:HA2	14	0.21
(1,642)	1:85:A:TYR:HB3	1:86:A:GLY:H	8	0.21
(1,609)	1:81:A:GLY:HA3	1:82:A:SER:H	12	0.21
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD11	14	0.21
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD12	14	0.21
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD13	14	0.21
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG21	9	0.21
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG22	9	0.21
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG23	9	0.21
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG21	12	0.21
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG22	12	0.21
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG23	12	0.21
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG21	13	0.21
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG22	13	0.21
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG23	13	0.21
(1,439)	1:66:A:TRP:H	1:66:A:TRP:HB2	7	0.21
(1,425)	1:61:A:GLN:H	1:62:A:TYR:H	6	0.21
(1,418)	1:60:A:ALA:H	1:60:A:ALA:HA	8	0.21
(1,401)	1:56:A:ASN:H	1:56:A:ASN:HA	13	0.21
(1,394)	1:55:A:GLY:H	1:55:A:GLY:HA3	4	0.21
(1,394)	1:55:A:GLY:H	1:55:A:GLY:HA3	6	0.21
(1,378)	1:53:A:ARG:H	1:53:A:ARG:HA	2	0.21
(1,378)	1:53:A:ARG:H	1:53:A:ARG:HA	10	0.21
(1,334)	1:48:A:ALA:HB1	1:18:A:MET:HG3	2	0.21
(1,334)	1:48:A:ALA:HB2	1:18:A:MET:HG3	2	0.21
(1,334)	1:48:A:ALA:HB3	1:18:A:MET:HG3	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB1	4	0.21
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB2	4	0.21
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB3	4	0.21
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB1	14	0.21
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB2	14	0.21
(1,278)	1:44:A:ALA:H	1:44:A:ALA:HB3	14	0.21
(1,272)	1:43:A:GLY:H	1:43:A:GLY:HA3	2	0.21
(1,272)	1:43:A:GLY:H	1:43:A:GLY:HA3	4	0.21
(1,272)	1:43:A:GLY:H	1:43:A:GLY:HA3	6	0.21
(1,272)	1:43:A:GLY:H	1:43:A:GLY:HA3	8	0.21
(1,272)	1:43:A:GLY:H	1:43:A:GLY:HA3	9	0.21
(1,272)	1:43:A:GLY:H	1:43:A:GLY:HA3	10	0.21
(1,272)	1:43:A:GLY:H	1:43:A:GLY:HA3	11	0.21
(1,272)	1:43:A:GLY:H	1:43:A:GLY:HA3	12	0.21
(1,229)	1:39:A:LEU:H	1:39:A:LEU:HB2	15	0.21
(1,222)	1:38:A:CYS:H	1:38:A:CYS:HB2	4	0.21
(1,212)	1:37:A:GLY:H	1:37:A:GLY:HA3	2	0.21
(1,212)	1:37:A:GLY:H	1:37:A:GLY:HA3	3	0.21
(1,212)	1:37:A:GLY:H	1:37:A:GLY:HA3	5	0.21
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB1	3	0.21
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB2	3	0.21
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB3	3	0.21
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB1	3	0.21
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB2	3	0.21
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB3	3	0.21
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB1	3	0.21
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB2	3	0.21
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB3	3	0.21
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB1	8	0.21
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB2	8	0.21
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB3	8	0.21
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB1	8	0.21
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB2	8	0.21
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB3	8	0.21
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB1	8	0.21
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB2	8	0.21
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB3	8	0.21
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG21	14	0.21
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG22	14	0.21
(1,125)	1:24:A:ILE:H	1:24:A:ILE:HG23	14	0.21
(1,116)	1:23:A:ARG:H	1:23:A:ARG:HG2	4	0.21
(1,116)	1:23:A:ARG:H	1:23:A:ARG:HG2	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,108)	1:22:A:GLU:H	1:23:A:ARG:H	5	0.21
(1,96)	1:21:A:GLY:H	1:21:A:GLY:HA3	1	0.21
(1,96)	1:21:A:GLY:H	1:21:A:GLY:HA3	2	0.21
(1,96)	1:21:A:GLY:H	1:21:A:GLY:HA3	3	0.21
(1,96)	1:21:A:GLY:H	1:21:A:GLY:HA3	4	0.21
(1,96)	1:21:A:GLY:H	1:21:A:GLY:HA3	5	0.21
(1,96)	1:21:A:GLY:H	1:21:A:GLY:HA3	6	0.21
(1,96)	1:21:A:GLY:H	1:21:A:GLY:HA3	7	0.21
(1,96)	1:21:A:GLY:H	1:21:A:GLY:HA3	8	0.21
(1,96)	1:21:A:GLY:H	1:21:A:GLY:HA3	9	0.21
(1,96)	1:21:A:GLY:H	1:21:A:GLY:HA3	10	0.21
(1,96)	1:21:A:GLY:H	1:21:A:GLY:HA3	11	0.21
(1,96)	1:21:A:GLY:H	1:21:A:GLY:HA3	12	0.21
(1,96)	1:21:A:GLY:H	1:21:A:GLY:HA3	13	0.21
(1,96)	1:21:A:GLY:H	1:21:A:GLY:HA3	14	0.21
(1,95)	1:21:A:GLY:H	1:21:A:GLY:HA3	1	0.21
(1,95)	1:21:A:GLY:H	1:21:A:GLY:HA3	2	0.21
(1,95)	1:21:A:GLY:H	1:21:A:GLY:HA3	3	0.21
(1,95)	1:21:A:GLY:H	1:21:A:GLY:HA3	4	0.21
(1,95)	1:21:A:GLY:H	1:21:A:GLY:HA3	5	0.21
(1,95)	1:21:A:GLY:H	1:21:A:GLY:HA3	6	0.21
(1,95)	1:21:A:GLY:H	1:21:A:GLY:HA3	7	0.21
(1,95)	1:21:A:GLY:H	1:21:A:GLY:HA3	8	0.21
(1,95)	1:21:A:GLY:H	1:21:A:GLY:HA3	9	0.21
(1,95)	1:21:A:GLY:H	1:21:A:GLY:HA3	10	0.21
(1,95)	1:21:A:GLY:H	1:21:A:GLY:HA3	11	0.21
(1,95)	1:21:A:GLY:H	1:21:A:GLY:HA3	12	0.21
(1,95)	1:21:A:GLY:H	1:21:A:GLY:HA3	13	0.21
(1,95)	1:21:A:GLY:H	1:21:A:GLY:HA3	14	0.21
(1,28)	1:15:A:LEU:HD21	1:103:A:ALA:HA	13	0.21
(1,28)	1:15:A:LEU:HD22	1:103:A:ALA:HA	13	0.21
(1,28)	1:15:A:LEU:HD23	1:103:A:ALA:HA	13	0.21
(1,6)	1:13:A:ARG:H	1:13:A:ARG:HB2	11	0.21
(1,2494)	1:90:A:LYS:H	1:150:B:SER:HB2	5	0.2
(1,2492)	1:90:A:LYS:H	1:150:B:SER:HB3	9	0.2
(1,2476)	1:93:A:LYS:H	1:147:B:LYS:HD3	14	0.2
(1,2447)	1:100:A:LYS:HE2	1:139:B:GLU:H	2	0.2
(1,2437)	1:100:A:LYS:HE3	1:140:B:GLU:H	10	0.2
(1,2432)	1:143:A:LYS:H	1:97:B:GLU:HG2	9	0.2
(1,2431)	1:97:A:GLU:HG2	1:143:B:LYS:H	14	0.2
(1,2347)	1:154:B:ASN:H	1:154:B:ASN:HB2	15	0.2
(1,2339)	1:153:B:GLU:H	1:153:B:GLU:HG2	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2309)	1:149:B:LEU:HD21	1:28:B:CYS:HA	14	0.2
(1,2309)	1:149:B:LEU:HD22	1:28:B:CYS:HA	14	0.2
(1,2309)	1:149:B:LEU:HD23	1:28:B:CYS:HA	14	0.2
(1,2241)	1:144:B:ASN:H	1:144:B:ASN:HB2	6	0.2
(1,2188)	1:139:B:GLU:H	1:139:B:GLU:HB2	5	0.2
(1,2181)	1:138:B:ASN:H	1:138:B:ASN:HB2	5	0.2
(1,2118)	1:130:B:LEU:H	1:130:B:LEU:HA	5	0.2
(1,2116)	1:129:B:GLU:H	1:129:B:GLU:HB2	1	0.2
(1,2106)	1:127:B:ARG:H	1:127:B:ARG:HB2	12	0.2
(1,2106)	1:127:B:ARG:H	1:127:B:ARG:HB2	14	0.2
(1,2038)	1:117:B:ARG:H	1:118:B:GLU:H	3	0.2
(1,2038)	1:117:B:ARG:H	1:118:B:GLU:H	12	0.2
(1,2038)	1:117:B:ARG:H	1:118:B:GLU:H	13	0.2
(1,2033)	1:116:B:ARG:H	1:116:B:ARG:HB2	1	0.2
(1,2032)	1:116:B:ARG:H	1:116:B:ARG:HA	8	0.2
(1,2022)	1:112:B:GLN:H	1:112:B:GLN:HB2	13	0.2
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB2	14	0.2
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB3	14	0.2
(1,2011)	1:108:B:LYS:H	1:108:B:LYS:HB2	14	0.2
(1,2007)	1:107:B:GLU:H	1:107:B:GLU:HA	9	0.2
(1,2005)	1:106:B:ARG:H	1:106:B:ARG:HA	3	0.2
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB1	10	0.2
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB2	10	0.2
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB3	10	0.2
(1,1918)	1:96:B:GLU:H	1:96:B:GLU:HB2	10	0.2
(1,1906)	1:95:B:LYS:H	1:95:B:LYS:HB2	1	0.2
(1,1853)	1:90:B:LYS:H	1:90:B:LYS:HB2	2	0.2
(1,1839)	1:87:B:THR:H	1:88:B:SER:H	15	0.2
(1,1834)	1:86:B:GLY:H	1:86:B:GLY:HA2	2	0.2
(1,1834)	1:86:B:GLY:H	1:86:B:GLY:HA2	3	0.2
(1,1834)	1:86:B:GLY:H	1:86:B:GLY:HA2	4	0.2
(1,1834)	1:86:B:GLY:H	1:86:B:GLY:HA2	7	0.2
(1,1834)	1:86:B:GLY:H	1:86:B:GLY:HA2	12	0.2
(1,1829)	1:85:B:TYR:H	1:85:B:TYR:HB2	10	0.2
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB1	4	0.2
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB2	4	0.2
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB3	4	0.2
(1,1779)	1:79:B:VAL:H	1:79:B:VAL:HG11	4	0.2
(1,1779)	1:79:B:VAL:H	1:79:B:VAL:HG12	4	0.2
(1,1779)	1:79:B:VAL:H	1:79:B:VAL:HG13	4	0.2
(1,1726)	1:75:B:LEU:HD21	1:95:B:LYS:HB3	9	0.2
(1,1726)	1:75:B:LEU:HD22	1:95:B:LYS:HB3	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1726)	1:75:B:LEU:HD23	1:95:B:LYS:HB3	9	0.2
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB1	2	0.2
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB2	2	0.2
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB3	2	0.2
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB1	13	0.2
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB2	13	0.2
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB3	13	0.2
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB1	13	0.2
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB2	13	0.2
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB3	13	0.2
(1,1584)	1:55:B:GLY:H	1:55:B:GLY:HA3	1	0.2
(1,1584)	1:55:B:GLY:H	1:55:B:GLY:HA3	4	0.2
(1,1584)	1:55:B:GLY:H	1:55:B:GLY:HA3	5	0.2
(1,1584)	1:55:B:GLY:H	1:55:B:GLY:HA3	8	0.2
(1,1584)	1:55:B:GLY:H	1:55:B:GLY:HA3	9	0.2
(1,1584)	1:55:B:GLY:H	1:55:B:GLY:HA3	11	0.2
(1,1584)	1:55:B:GLY:H	1:55:B:GLY:HA3	12	0.2
(1,1584)	1:55:B:GLY:H	1:55:B:GLY:HA3	13	0.2
(1,1573)	1:53:B:ARG:HA	1:56:B:ASN:H	3	0.2
(1,1462)	1:43:B:GLY:H	1:43:B:GLY:HA3	8	0.2
(1,1462)	1:43:B:GLY:H	1:43:B:GLY:HA3	10	0.2
(1,1462)	1:43:B:GLY:H	1:43:B:GLY:HA3	11	0.2
(1,1412)	1:38:B:CYS:H	1:38:B:CYS:HB2	6	0.2
(1,1402)	1:37:B:GLY:H	1:37:B:GLY:HA3	2	0.2
(1,1402)	1:37:B:GLY:H	1:37:B:GLY:HA3	3	0.2
(1,1346)	1:25:B:ILE:HD11	1:79:B:VAL:HG11	9	0.2
(1,1346)	1:25:B:ILE:HD11	1:79:B:VAL:HG12	9	0.2
(1,1346)	1:25:B:ILE:HD11	1:79:B:VAL:HG13	9	0.2
(1,1346)	1:25:B:ILE:HD12	1:79:B:VAL:HG11	9	0.2
(1,1346)	1:25:B:ILE:HD12	1:79:B:VAL:HG12	9	0.2
(1,1346)	1:25:B:ILE:HD12	1:79:B:VAL:HG13	9	0.2
(1,1346)	1:25:B:ILE:HD13	1:79:B:VAL:HG11	9	0.2
(1,1346)	1:25:B:ILE:HD13	1:79:B:VAL:HG12	9	0.2
(1,1346)	1:25:B:ILE:HD13	1:79:B:VAL:HG13	9	0.2
(1,1298)	1:22:B:GLU:H	1:23:B:ARG:H	7	0.2
(1,1286)	1:21:B:GLY:H	1:21:B:GLY:HA3	1	0.2
(1,1286)	1:21:B:GLY:H	1:21:B:GLY:HA3	4	0.2
(1,1286)	1:21:B:GLY:H	1:21:B:GLY:HA3	5	0.2
(1,1286)	1:21:B:GLY:H	1:21:B:GLY:HA3	6	0.2
(1,1286)	1:21:B:GLY:H	1:21:B:GLY:HA3	7	0.2
(1,1286)	1:21:B:GLY:H	1:21:B:GLY:HA3	8	0.2
(1,1286)	1:21:B:GLY:H	1:21:B:GLY:HA3	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1286)	1:21:B:GLY:H	1:21:B:GLY:HA3	12	0.2
(1,1286)	1:21:B:GLY:H	1:21:B:GLY:HA3	13	0.2
(1,1286)	1:21:B:GLY:H	1:21:B:GLY:HA3	14	0.2
(1,1286)	1:21:B:GLY:H	1:21:B:GLY:HA3	15	0.2
(1,1285)	1:21:B:GLY:H	1:21:B:GLY:HA3	1	0.2
(1,1285)	1:21:B:GLY:H	1:21:B:GLY:HA3	4	0.2
(1,1285)	1:21:B:GLY:H	1:21:B:GLY:HA3	5	0.2
(1,1285)	1:21:B:GLY:H	1:21:B:GLY:HA3	6	0.2
(1,1285)	1:21:B:GLY:H	1:21:B:GLY:HA3	7	0.2
(1,1285)	1:21:B:GLY:H	1:21:B:GLY:HA3	8	0.2
(1,1285)	1:21:B:GLY:H	1:21:B:GLY:HA3	9	0.2
(1,1285)	1:21:B:GLY:H	1:21:B:GLY:HA3	12	0.2
(1,1285)	1:21:B:GLY:H	1:21:B:GLY:HA3	13	0.2
(1,1285)	1:21:B:GLY:H	1:21:B:GLY:HA3	14	0.2
(1,1285)	1:21:B:GLY:H	1:21:B:GLY:HA3	15	0.2
(1,1283)	1:20:B:PHE:HA	1:22:B:GLU:H	12	0.2
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD21	13	0.2
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD22	13	0.2
(1,1273)	1:19:B:THR:HG21	1:99:B:LEU:HD23	13	0.2
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD21	13	0.2
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD22	13	0.2
(1,1273)	1:19:B:THR:HG22	1:99:B:LEU:HD23	13	0.2
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD21	13	0.2
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD22	13	0.2
(1,1273)	1:19:B:THR:HG23	1:99:B:LEU:HD23	13	0.2
(1,1228)	1:17:B:ASP:H	1:17:B:ASP:HB2	11	0.2
(1,1157)	1:154:A:ASN:H	1:154:A:ASN:HB2	2	0.2
(1,1136)	1:152:A:LEU:H	1:152:A:LEU:HG	15	0.2
(1,1129)	1:151:A:ASP:H	1:151:A:ASP:HB2	11	0.2
(1,1117)	1:149:A:LEU:HD21	1:27:A:HIS:HA	2	0.2
(1,1117)	1:149:A:LEU:HD22	1:27:A:HIS:HA	2	0.2
(1,1117)	1:149:A:LEU:HD23	1:27:A:HIS:HA	2	0.2
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD11	12	0.2
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD12	12	0.2
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD13	12	0.2
(1,1058)	1:145:A:LEU:H	1:145:A:LEU:HB2	13	0.2
(1,944)	1:134:A:LYS:H	1:134:A:LYS:HB2	15	0.2
(1,939)	1:133:A:MET:H	1:133:A:MET:HG3	3	0.2
(1,926)	1:129:A:GLU:H	1:129:A:GLU:HB2	9	0.2
(1,916)	1:127:A:ARG:H	1:127:A:ARG:HB2	14	0.2
(1,900)	1:125:A:ARG:H	1:125:A:ARG:HG2	11	0.2
(1,845)	1:117:A:ARG:H	1:117:A:ARG:HA	4	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,845)	1:117:A:ARG:H	1:117:A:ARG:HA	11	0.2
(1,841)	1:115:A:GLU:H	1:115:A:GLU:HA	2	0.2
(1,840)	1:114:A:LEU:H	1:115:A:GLU:H	4	0.2
(1,840)	1:114:A:LEU:H	1:115:A:GLU:H	6	0.2
(1,838)	1:114:A:LEU:H	1:114:A:LEU:HB2	6	0.2
(1,834)	1:113:A:GLU:H	1:113:A:GLU:HA	5	0.2
(1,832)	1:112:A:GLN:H	1:112:A:GLN:HB2	3	0.2
(1,815)	1:106:A:ARG:H	1:106:A:ARG:HA	5	0.2
(1,815)	1:106:A:ARG:H	1:106:A:ARG:HA	8	0.2
(1,815)	1:106:A:ARG:H	1:106:A:ARG:HA	9	0.2
(1,815)	1:106:A:ARG:H	1:106:A:ARG:HA	11	0.2
(1,815)	1:106:A:ARG:H	1:106:A:ARG:HA	13	0.2
(1,815)	1:106:A:ARG:H	1:106:A:ARG:HA	15	0.2
(1,811)	1:105:A:MET:H	1:105:A:MET:HB2	3	0.2
(1,811)	1:105:A:MET:H	1:105:A:MET:HB2	6	0.2
(1,811)	1:105:A:MET:H	1:105:A:MET:HB2	9	0.2
(1,811)	1:105:A:MET:H	1:105:A:MET:HB2	10	0.2
(1,778)	1:101:A:GLU:HB2	1:102:A:LYS:H	10	0.2
(1,728)	1:96:A:GLU:H	1:96:A:GLU:HB2	6	0.2
(1,656)	1:89:A:GLY:H	1:89:A:GLY:HA3	2	0.2
(1,656)	1:89:A:GLY:H	1:89:A:GLY:HA3	3	0.2
(1,656)	1:89:A:GLY:H	1:89:A:GLY:HA3	4	0.2
(1,656)	1:89:A:GLY:H	1:89:A:GLY:HA3	12	0.2
(1,656)	1:89:A:GLY:H	1:89:A:GLY:HA3	13	0.2
(1,656)	1:89:A:GLY:H	1:89:A:GLY:HA3	15	0.2
(1,644)	1:86:A:GLY:H	1:86:A:GLY:HA2	1	0.2
(1,644)	1:86:A:GLY:H	1:86:A:GLY:HA2	2	0.2
(1,644)	1:86:A:GLY:H	1:86:A:GLY:HA2	5	0.2
(1,644)	1:86:A:GLY:H	1:86:A:GLY:HA2	8	0.2
(1,644)	1:86:A:GLY:H	1:86:A:GLY:HA2	9	0.2
(1,644)	1:86:A:GLY:H	1:86:A:GLY:HA2	10	0.2
(1,644)	1:86:A:GLY:H	1:86:A:GLY:HA2	11	0.2
(1,644)	1:86:A:GLY:H	1:86:A:GLY:HA2	13	0.2
(1,641)	1:85:A:TYR:H	1:86:A:GLY:H	1	0.2
(1,606)	1:81:A:GLY:H	1:81:A:GLY:HA3	1	0.2
(1,606)	1:81:A:GLY:H	1:81:A:GLY:HA3	2	0.2
(1,606)	1:81:A:GLY:H	1:81:A:GLY:HA3	3	0.2
(1,606)	1:81:A:GLY:H	1:81:A:GLY:HA3	4	0.2
(1,606)	1:81:A:GLY:H	1:81:A:GLY:HA3	5	0.2
(1,606)	1:81:A:GLY:H	1:81:A:GLY:HA3	6	0.2
(1,606)	1:81:A:GLY:H	1:81:A:GLY:HA3	7	0.2
(1,606)	1:81:A:GLY:H	1:81:A:GLY:HA3	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,606)	1:81:A:GLY:H	1:81:A:GLY:HA3	9	0.2
(1,606)	1:81:A:GLY:H	1:81:A:GLY:HA3	10	0.2
(1,606)	1:81:A:GLY:H	1:81:A:GLY:HA3	11	0.2
(1,606)	1:81:A:GLY:H	1:81:A:GLY:HA3	12	0.2
(1,606)	1:81:A:GLY:H	1:81:A:GLY:HA3	13	0.2
(1,606)	1:81:A:GLY:H	1:81:A:GLY:HA3	14	0.2
(1,606)	1:81:A:GLY:H	1:81:A:GLY:HA3	15	0.2
(1,541)	1:75:A:LEU:HD21	1:95:A:LYS:HE3	7	0.2
(1,541)	1:75:A:LEU:HD22	1:95:A:LYS:HE3	7	0.2
(1,541)	1:75:A:LEU:HD23	1:95:A:LYS:HE3	7	0.2
(1,539)	1:75:A:LEU:HD21	1:95:A:LYS:HG2	5	0.2
(1,539)	1:75:A:LEU:HD22	1:95:A:LYS:HG2	5	0.2
(1,539)	1:75:A:LEU:HD23	1:95:A:LYS:HG2	5	0.2
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG21	10	0.2
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG22	10	0.2
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG23	10	0.2
(1,485)	1:71:A:GLN:HB2	1:72:A:ALA:H	13	0.2
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG11	8	0.2
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG12	8	0.2
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG13	8	0.2
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG11	12	0.2
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG12	12	0.2
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG13	12	0.2
(1,430)	1:64:A:PHE:H	1:64:A:PHE:HB2	4	0.2
(1,421)	1:60:A:ALA:HB1	1:61:A:GLN:H	5	0.2
(1,421)	1:60:A:ALA:HB2	1:61:A:GLN:H	5	0.2
(1,421)	1:60:A:ALA:HB3	1:61:A:GLN:H	5	0.2
(1,419)	1:60:A:ALA:H	1:60:A:ALA:HB1	2	0.2
(1,419)	1:60:A:ALA:H	1:60:A:ALA:HB2	2	0.2
(1,419)	1:60:A:ALA:H	1:60:A:ALA:HB3	2	0.2
(1,401)	1:56:A:ASN:H	1:56:A:ASN:HA	6	0.2
(1,401)	1:56:A:ASN:H	1:56:A:ASN:HA	9	0.2
(1,394)	1:55:A:GLY:H	1:55:A:GLY:HA3	1	0.2
(1,394)	1:55:A:GLY:H	1:55:A:GLY:HA3	5	0.2
(1,394)	1:55:A:GLY:H	1:55:A:GLY:HA3	8	0.2
(1,394)	1:55:A:GLY:H	1:55:A:GLY:HA3	9	0.2
(1,394)	1:55:A:GLY:H	1:55:A:GLY:HA3	10	0.2
(1,394)	1:55:A:GLY:H	1:55:A:GLY:HA3	11	0.2
(1,394)	1:55:A:GLY:H	1:55:A:GLY:HA3	12	0.2
(1,394)	1:55:A:GLY:H	1:55:A:GLY:HA3	13	0.2
(1,394)	1:55:A:GLY:H	1:55:A:GLY:HA3	14	0.2
(1,394)	1:55:A:GLY:H	1:55:A:GLY:HA3	15	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,383)	1:53:A:ARG:HA	1:56:A:ASN:H	2	0.2
(1,378)	1:53:A:ARG:H	1:53:A:ARG:HA	1	0.2
(1,378)	1:53:A:ARG:H	1:53:A:ARG:HA	5	0.2
(1,355)	1:51:A:ASN:H	1:51:A:ASN:HB2	6	0.2
(1,331)	1:48:A:ALA:HB1	1:18:A:MET:HA	12	0.2
(1,331)	1:48:A:ALA:HB2	1:18:A:MET:HA	12	0.2
(1,331)	1:48:A:ALA:HB3	1:18:A:MET:HA	12	0.2
(1,272)	1:43:A:GLY:H	1:43:A:GLY:HA3	1	0.2
(1,272)	1:43:A:GLY:H	1:43:A:GLY:HA3	3	0.2
(1,272)	1:43:A:GLY:H	1:43:A:GLY:HA3	5	0.2
(1,272)	1:43:A:GLY:H	1:43:A:GLY:HA3	7	0.2
(1,272)	1:43:A:GLY:H	1:43:A:GLY:HA3	13	0.2
(1,272)	1:43:A:GLY:H	1:43:A:GLY:HA3	14	0.2
(1,272)	1:43:A:GLY:H	1:43:A:GLY:HA3	15	0.2
(1,229)	1:39:A:LEU:H	1:39:A:LEU:HB2	6	0.2
(1,212)	1:37:A:GLY:H	1:37:A:GLY:HA3	1	0.2
(1,212)	1:37:A:GLY:H	1:37:A:GLY:HA3	4	0.2
(1,212)	1:37:A:GLY:H	1:37:A:GLY:HA3	6	0.2
(1,212)	1:37:A:GLY:H	1:37:A:GLY:HA3	7	0.2
(1,212)	1:37:A:GLY:H	1:37:A:GLY:HA3	8	0.2
(1,212)	1:37:A:GLY:H	1:37:A:GLY:HA3	9	0.2
(1,212)	1:37:A:GLY:H	1:37:A:GLY:HA3	10	0.2
(1,212)	1:37:A:GLY:H	1:37:A:GLY:HA3	11	0.2
(1,212)	1:37:A:GLY:H	1:37:A:GLY:HA3	12	0.2
(1,212)	1:37:A:GLY:H	1:37:A:GLY:HA3	13	0.2
(1,212)	1:37:A:GLY:H	1:37:A:GLY:HA3	14	0.2
(1,212)	1:37:A:GLY:H	1:37:A:GLY:HA3	15	0.2
(1,96)	1:21:A:GLY:H	1:21:A:GLY:HA3	15	0.2
(1,95)	1:21:A:GLY:H	1:21:A:GLY:HA3	15	0.2
(1,65)	1:18:A:MET:HE1	1:52:A:VAL:HG21	11	0.2
(1,65)	1:18:A:MET:HE1	1:52:A:VAL:HG22	11	0.2
(1,65)	1:18:A:MET:HE1	1:52:A:VAL:HG23	11	0.2
(1,65)	1:18:A:MET:HE2	1:52:A:VAL:HG21	11	0.2
(1,65)	1:18:A:MET:HE2	1:52:A:VAL:HG22	11	0.2
(1,65)	1:18:A:MET:HE2	1:52:A:VAL:HG23	11	0.2
(1,65)	1:18:A:MET:HE3	1:52:A:VAL:HG21	11	0.2
(1,65)	1:18:A:MET:HE3	1:52:A:VAL:HG22	11	0.2
(1,65)	1:18:A:MET:HE3	1:52:A:VAL:HG23	11	0.2
(1,2)	1:12:A:GLU:H	1:12:A:GLU:HB3	8	0.2
(1,2479)	1:147:A:LYS:HE3	1:93:B:LYS:H	14	0.19
(1,2478)	1:93:A:LYS:H	1:147:B:LYS:HD2	3	0.19
(1,2456)	1:97:A:GLU:H	1:143:B:LYS:HG3	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2453)	1:143:A:LYS:HD2	1:96:B:GLU:H	8	0.19
(1,2448)	1:139:A:GLU:H	1:100:B:LYS:HE2	14	0.19
(1,2426)	1:147:A:LYS:HE3	1:94:B:ALA:HB1	3	0.19
(1,2426)	1:147:A:LYS:HE3	1:94:B:ALA:HB2	3	0.19
(1,2426)	1:147:A:LYS:HE3	1:94:B:ALA:HB3	3	0.19
(1,2337)	1:153:B:GLU:H	1:153:B:GLU:HB3	7	0.19
(1,2326)	1:152:B:LEU:H	1:152:B:LEU:HG	5	0.19
(1,2249)	1:145:B:LEU:H	1:145:B:LEU:HG	15	0.19
(1,2241)	1:144:B:ASN:H	1:144:B:ASN:HB2	8	0.19
(1,2241)	1:144:B:ASN:H	1:144:B:ASN:HB2	15	0.19
(1,2230)	1:143:B:LYS:H	1:143:B:LYS:HB2	9	0.19
(1,2188)	1:139:B:GLU:H	1:139:B:GLU:HB2	9	0.19
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB1	7	0.19
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB2	7	0.19
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB3	7	0.19
(1,2122)	1:130:B:LEU:H	1:131:B:ALA:H	4	0.19
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB1	1	0.19
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB2	1	0.19
(1,2111)	1:128:B:ALA:H	1:128:B:ALA:HB3	1	0.19
(1,2068)	1:122:B:GLU:H	1:122:B:GLU:HB2	10	0.19
(1,2038)	1:117:B:ARG:H	1:118:B:GLU:H	6	0.19
(1,2038)	1:117:B:ARG:H	1:118:B:GLU:H	11	0.19
(1,2032)	1:116:B:ARG:H	1:116:B:ARG:HA	13	0.19
(1,2023)	1:112:B:GLN:H	1:112:B:GLN:HG2	5	0.19
(1,2022)	1:112:B:GLN:H	1:112:B:GLN:HB2	5	0.19
(1,2011)	1:108:B:LYS:H	1:108:B:LYS:HB2	2	0.19
(1,2005)	1:106:B:ARG:H	1:106:B:ARG:HA	5	0.19
(1,2005)	1:106:B:ARG:H	1:106:B:ARG:HA	13	0.19
(1,2001)	1:105:B:MET:H	1:105:B:MET:HB2	14	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB1	1	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB2	1	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB3	1	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB1	2	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB2	2	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB3	2	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB1	3	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB2	3	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB3	3	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB1	4	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB2	4	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB3	4	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB1	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB2	6	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB3	6	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB1	7	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB2	7	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB3	7	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB1	8	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB2	8	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB3	8	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB1	9	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB2	9	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB3	9	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB1	11	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB2	11	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB3	11	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB1	12	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB2	12	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB3	12	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB1	13	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB2	13	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB3	13	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB1	14	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB2	14	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB3	14	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB1	15	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB2	15	0.19
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB3	15	0.19
(1,1962)	1:101:B:GLU:H	1:101:B:GLU:HB2	13	0.19
(1,1906)	1:95:B:LYS:H	1:95:B:LYS:HB2	12	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB1	1	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB2	1	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB3	1	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB1	3	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB2	3	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB3	3	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB1	4	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB2	4	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB3	4	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB1	5	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB2	5	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB3	5	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB1	6	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB2	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB3	6	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB1	7	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB2	7	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB3	7	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB1	8	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB2	8	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB3	8	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB1	9	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB2	9	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB3	9	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB1	13	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB2	13	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB3	13	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB1	14	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB2	14	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB3	14	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB1	15	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB2	15	0.19
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB3	15	0.19
(1,1834)	1:86:B:GLY:H	1:86:B:GLY:HA2	10	0.19
(1,1834)	1:86:B:GLY:H	1:86:B:GLY:HA2	11	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB1	2	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB2	2	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB3	2	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB1	3	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB2	3	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB3	3	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB1	5	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB2	5	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB3	5	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB1	6	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB2	6	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB3	6	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB1	8	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB2	8	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB3	8	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB1	9	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB2	9	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB3	9	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB1	10	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB2	10	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB3	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB1	11	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB2	11	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB3	11	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB1	12	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB2	12	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB3	12	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB1	13	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB2	13	0.19
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB3	13	0.19
(1,1731)	1:75:B:LEU:HD21	1:95:B:LYS:HE3	11	0.19
(1,1731)	1:75:B:LEU:HD22	1:95:B:LYS:HE3	11	0.19
(1,1731)	1:75:B:LEU:HD23	1:95:B:LYS:HE3	11	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB1	1	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB2	1	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB3	1	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB1	3	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB2	3	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB3	3	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB1	4	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB2	4	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB3	4	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB1	5	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB2	5	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB3	5	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB1	6	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB2	6	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB3	6	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB1	7	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB2	7	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB3	7	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB1	8	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB2	8	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB3	8	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB1	9	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB2	9	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB3	9	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB1	10	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB2	10	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB3	10	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB1	11	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB2	11	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB3	11	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB1	12	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB2	12	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB3	12	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB1	14	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB2	14	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB3	14	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB1	15	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB2	15	0.19
(1,1687)	1:73:B:ALA:H	1:73:B:ALA:HB3	15	0.19
(1,1599)	1:58:B:TRP:H	1:58:B:TRP:HB3	6	0.19
(1,1599)	1:58:B:TRP:H	1:58:B:TRP:HB3	14	0.19
(1,1584)	1:55:B:GLY:H	1:55:B:GLY:HA3	2	0.19
(1,1584)	1:55:B:GLY:H	1:55:B:GLY:HA3	3	0.19
(1,1584)	1:55:B:GLY:H	1:55:B:GLY:HA3	6	0.19
(1,1584)	1:55:B:GLY:H	1:55:B:GLY:HA3	10	0.19
(1,1584)	1:55:B:GLY:H	1:55:B:GLY:HA3	14	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB1	2	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB2	2	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB3	2	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB1	3	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB2	3	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB3	3	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB1	4	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB2	4	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB3	4	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB1	5	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB2	5	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB3	5	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB1	8	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB2	8	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB3	8	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB1	10	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB2	10	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB3	10	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB1	14	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB2	14	0.19
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB3	14	0.19
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB2	6	0.19
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB3	6	0.19
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB2	9	0.19
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB3	9	0.19
(1,1462)	1:43:B:GLY:H	1:43:B:GLY:HA3	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1462)	1:43:B:GLY:H	1:43:B:GLY:HA3	2	0.19
(1,1462)	1:43:B:GLY:H	1:43:B:GLY:HA3	5	0.19
(1,1462)	1:43:B:GLY:H	1:43:B:GLY:HA3	6	0.19
(1,1462)	1:43:B:GLY:H	1:43:B:GLY:HA3	9	0.19
(1,1462)	1:43:B:GLY:H	1:43:B:GLY:HA3	12	0.19
(1,1462)	1:43:B:GLY:H	1:43:B:GLY:HA3	13	0.19
(1,1462)	1:43:B:GLY:H	1:43:B:GLY:HA3	14	0.19
(1,1412)	1:38:B:CYS:H	1:38:B:CYS:HB2	7	0.19
(1,1412)	1:38:B:CYS:H	1:38:B:CYS:HB2	13	0.19
(1,1346)	1:25:B:ILE:HD11	1:79:B:VAL:HG11	6	0.19
(1,1346)	1:25:B:ILE:HD11	1:79:B:VAL:HG12	6	0.19
(1,1346)	1:25:B:ILE:HD11	1:79:B:VAL:HG13	6	0.19
(1,1346)	1:25:B:ILE:HD12	1:79:B:VAL:HG11	6	0.19
(1,1346)	1:25:B:ILE:HD12	1:79:B:VAL:HG12	6	0.19
(1,1346)	1:25:B:ILE:HD12	1:79:B:VAL:HG13	6	0.19
(1,1346)	1:25:B:ILE:HD13	1:79:B:VAL:HG11	6	0.19
(1,1346)	1:25:B:ILE:HD13	1:79:B:VAL:HG12	6	0.19
(1,1346)	1:25:B:ILE:HD13	1:79:B:VAL:HG13	6	0.19
(1,1306)	1:23:B:ARG:H	1:23:B:ARG:HG2	9	0.19
(1,1228)	1:17:B:ASP:H	1:17:B:ASP:HB2	1	0.19
(1,1184)	1:158:A:LYS:H	1:158:A:LYS:HB2	4	0.19
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD11	12	0.19
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD12	12	0.19
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD13	12	0.19
(1,1167)	1:155:A:LYS:H	1:155:A:LYS:HE2	7	0.19
(1,1104)	1:149:A:LEU:H	1:149:A:LEU:HG	6	0.19
(1,1095)	1:148:A:GLU:H	1:148:A:GLU:HB2	3	0.19
(1,1051)	1:144:A:ASN:H	1:144:A:ASN:HB2	5	0.19
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG21	3	0.19
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG22	3	0.19
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG23	3	0.19
(1,998)	1:139:A:GLU:H	1:139:A:GLU:HB2	10	0.19
(1,955)	1:134:A:LYS:HG2	1:135:A:THR:H	1	0.19
(1,954)	1:134:A:LYS:HB3	1:135:A:THR:H	3	0.19
(1,940)	1:133:A:MET:H	1:133:A:MET:HB2	8	0.19
(1,929)	1:130:A:LEU:H	1:130:A:LEU:HB3	15	0.19
(1,916)	1:127:A:ARG:H	1:127:A:ARG:HB2	10	0.19
(1,847)	1:117:A:ARG:H	1:117:A:ARG:HG3	8	0.19
(1,845)	1:117:A:ARG:H	1:117:A:ARG:HA	15	0.19
(1,844)	1:116:A:ARG:H	1:116:A:ARG:HG3	11	0.19
(1,834)	1:113:A:GLU:H	1:113:A:GLU:HA	13	0.19
(1,815)	1:106:A:ARG:H	1:106:A:ARG:HA	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,815)	1:106:A:ARG:H	1:106:A:ARG:HA	2	0.19
(1,815)	1:106:A:ARG:H	1:106:A:ARG:HA	4	0.19
(1,815)	1:106:A:ARG:H	1:106:A:ARG:HA	10	0.19
(1,815)	1:106:A:ARG:H	1:106:A:ARG:HA	14	0.19
(1,781)	1:102:A:LYS:H	1:102:A:LYS:HB2	14	0.19
(1,728)	1:96:A:GLU:H	1:96:A:GLU:HB2	15	0.19
(1,700)	1:93:A:LYS:H	1:93:A:LYS:HD3	15	0.19
(1,656)	1:89:A:GLY:H	1:89:A:GLY:HA3	1	0.19
(1,656)	1:89:A:GLY:H	1:89:A:GLY:HA3	6	0.19
(1,656)	1:89:A:GLY:H	1:89:A:GLY:HA3	8	0.19
(1,656)	1:89:A:GLY:H	1:89:A:GLY:HA3	9	0.19
(1,656)	1:89:A:GLY:H	1:89:A:GLY:HA3	10	0.19
(1,656)	1:89:A:GLY:H	1:89:A:GLY:HA3	11	0.19
(1,656)	1:89:A:GLY:H	1:89:A:GLY:HA3	14	0.19
(1,652)	1:88:A:SER:H	1:88:A:SER:HB2	5	0.19
(1,647)	1:87:A:THR:H	1:87:A:THR:HB	5	0.19
(1,647)	1:87:A:THR:H	1:87:A:THR:HB	11	0.19
(1,644)	1:86:A:GLY:H	1:86:A:GLY:HA2	3	0.19
(1,644)	1:86:A:GLY:H	1:86:A:GLY:HA2	4	0.19
(1,644)	1:86:A:GLY:H	1:86:A:GLY:HA2	6	0.19
(1,644)	1:86:A:GLY:H	1:86:A:GLY:HA2	12	0.19
(1,642)	1:85:A:TYR:HB3	1:86:A:GLY:H	12	0.19
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD11	11	0.19
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD12	11	0.19
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD13	11	0.19
(1,622)	1:82:A:SER:H	1:83:A:PHE:HB3	15	0.19
(1,609)	1:81:A:GLY:HA3	1:82:A:SER:H	4	0.19
(1,539)	1:75:A:LEU:HD21	1:95:A:LYS:HG2	11	0.19
(1,539)	1:75:A:LEU:HD22	1:95:A:LYS:HG2	11	0.19
(1,539)	1:75:A:LEU:HD23	1:95:A:LYS:HG2	11	0.19
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG11	9	0.19
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG12	9	0.19
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG13	9	0.19
(1,401)	1:56:A:ASN:H	1:56:A:ASN:HA	10	0.19
(1,401)	1:56:A:ASN:H	1:56:A:ASN:HA	12	0.19
(1,397)	1:55:A:GLY:HA3	1:56:A:ASN:H	15	0.19
(1,394)	1:55:A:GLY:H	1:55:A:GLY:HA3	2	0.19
(1,394)	1:55:A:GLY:H	1:55:A:GLY:HA3	3	0.19
(1,394)	1:55:A:GLY:H	1:55:A:GLY:HA3	7	0.19
(1,378)	1:53:A:ARG:H	1:53:A:ARG:HA	3	0.19
(1,378)	1:53:A:ARG:H	1:53:A:ARG:HA	6	0.19
(1,378)	1:53:A:ARG:H	1:53:A:ARG:HA	7	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,378)	1:53:A:ARG:H	1:53:A:ARG:HA	11	0.19
(1,378)	1:53:A:ARG:H	1:53:A:ARG:HA	12	0.19
(1,378)	1:53:A:ARG:H	1:53:A:ARG:HA	13	0.19
(1,374)	1:52:A:VAL:HG11	1:69:A:GLY:HA2	11	0.19
(1,374)	1:52:A:VAL:HG12	1:69:A:GLY:HA2	11	0.19
(1,374)	1:52:A:VAL:HG13	1:69:A:GLY:HA2	11	0.19
(1,229)	1:39:A:LEU:H	1:39:A:LEU:HB2	12	0.19
(1,222)	1:38:A:CYS:H	1:38:A:CYS:HB2	13	0.19
(1,211)	1:36:A:ILE:HD11	1:37:A:GLY:H	6	0.19
(1,211)	1:36:A:ILE:HD12	1:37:A:GLY:H	6	0.19
(1,211)	1:36:A:ILE:HD13	1:37:A:GLY:H	6	0.19
(1,211)	1:36:A:ILE:HD11	1:37:A:GLY:H	8	0.19
(1,211)	1:36:A:ILE:HD12	1:37:A:GLY:H	8	0.19
(1,211)	1:36:A:ILE:HD13	1:37:A:GLY:H	8	0.19
(1,198)	1:33:A:LEU:H	1:33:A:LEU:HB3	7	0.19
(1,197)	1:33:A:LEU:H	1:33:A:LEU:HB3	7	0.19
(1,179)	1:27:A:HIS:HB2	1:28:A:CYS:H	10	0.19
(1,129)	1:24:A:ILE:HA	1:26:A:TYR:H	14	0.19
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG12	12	0.19
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG13	12	0.19
(1,80)	1:19:A:THR:HG21	1:99:A:LEU:HB2	4	0.19
(1,80)	1:19:A:THR:HG22	1:99:A:LEU:HB2	4	0.19
(1,80)	1:19:A:THR:HG23	1:99:A:LEU:HB2	4	0.19
(1,6)	1:13:A:ARG:H	1:13:A:ARG:HB2	15	0.19
(1,2473)	1:147:A:LYS:HG2	1:93:B:LYS:H	11	0.18
(1,2464)	1:97:A:GLU:H	1:143:B:LYS:HE3	3	0.18
(1,2462)	1:97:A:GLU:H	1:143:B:LYS:HD2	4	0.18
(1,2399)	1:90:A:LYS:HA	1:150:B:SER:H	2	0.18
(1,2391)	1:90:A:LYS:HG2	1:151:B:ASP:H	7	0.18
(1,2363)	1:156:B:LEU:H	1:156:B:LEU:HB2	1	0.18
(1,2347)	1:154:B:ASN:H	1:154:B:ASN:HB2	2	0.18
(1,2337)	1:153:B:GLU:H	1:153:B:GLU:HB3	15	0.18
(1,2311)	1:150:B:SER:H	1:150:B:SER:HB2	8	0.18
(1,2285)	1:148:B:GLU:H	1:148:B:GLU:HB2	4	0.18
(1,2188)	1:139:B:GLU:H	1:139:B:GLU:HB2	10	0.18
(1,2136)	1:134:B:LYS:H	1:134:B:LYS:HG2	5	0.18
(1,2134)	1:134:B:LYS:H	1:134:B:LYS:HB2	15	0.18
(1,2128)	1:133:B:MET:H	1:133:B:MET:HA	1	0.18
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB1	6	0.18
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB2	6	0.18
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB3	6	0.18
(1,2116)	1:129:B:GLU:H	1:129:B:GLU:HB2	11	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2106)	1:127:B:ARG:H	1:127:B:ARG:HB2	1	0.18
(1,2055)	1:120:B:GLU:H	1:120:B:GLU:HB2	3	0.18
(1,2038)	1:117:B:ARG:H	1:118:B:GLU:H	7	0.18
(1,2027)	1:114:B:LEU:H	1:114:B:LEU:HB3	9	0.18
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB2	9	0.18
(1,2014)	1:109:B:LEU:H	1:109:B:LEU:HB3	9	0.18
(1,2007)	1:107:B:GLU:H	1:107:B:GLU:HA	10	0.18
(1,2007)	1:107:B:GLU:H	1:107:B:GLU:HA	15	0.18
(1,2005)	1:106:B:ARG:H	1:106:B:ARG:HA	1	0.18
(1,2005)	1:106:B:ARG:H	1:106:B:ARG:HA	2	0.18
(1,2005)	1:106:B:ARG:H	1:106:B:ARG:HA	6	0.18
(1,2005)	1:106:B:ARG:H	1:106:B:ARG:HA	10	0.18
(1,2005)	1:106:B:ARG:H	1:106:B:ARG:HA	12	0.18
(1,2005)	1:106:B:ARG:H	1:106:B:ARG:HA	14	0.18
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB1	5	0.18
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB2	5	0.18
(1,1980)	1:103:B:ALA:H	1:103:B:ALA:HB3	5	0.18
(1,1971)	1:102:B:LYS:H	1:102:B:LYS:HB2	8	0.18
(1,1918)	1:96:B:GLU:H	1:96:B:GLU:HB2	9	0.18
(1,1906)	1:95:B:LYS:H	1:95:B:LYS:HB2	13	0.18
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB1	2	0.18
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB2	2	0.18
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB3	2	0.18
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB1	10	0.18
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB2	10	0.18
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB3	10	0.18
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB1	11	0.18
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB2	11	0.18
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB3	11	0.18
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB1	12	0.18
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB2	12	0.18
(1,1899)	1:94:B:ALA:H	1:94:B:ALA:HB3	12	0.18
(1,1839)	1:87:B:THR:H	1:88:B:SER:H	5	0.18
(1,1834)	1:86:B:GLY:H	1:86:B:GLY:HA2	5	0.18
(1,1834)	1:86:B:GLY:H	1:86:B:GLY:HA2	13	0.18
(1,1834)	1:86:B:GLY:H	1:86:B:GLY:HA2	14	0.18
(1,1829)	1:85:B:TYR:H	1:85:B:TYR:HB2	9	0.18
(1,1806)	1:82:B:SER:H	1:82:B:SER:HB2	7	0.18
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB1	1	0.18
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB2	1	0.18
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB3	1	0.18
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB1	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB2	7	0.18
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB3	7	0.18
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB1	14	0.18
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB2	14	0.18
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB3	14	0.18
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB1	15	0.18
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB2	15	0.18
(1,1788)	1:80:B:ALA:H	1:80:B:ALA:HB3	15	0.18
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB1	5	0.18
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB2	5	0.18
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB3	5	0.18
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB1	7	0.18
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB2	7	0.18
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB3	7	0.18
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB1	15	0.18
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB2	15	0.18
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB3	15	0.18
(1,1620)	1:64:B:PHE:H	1:64:B:PHE:HB2	13	0.18
(1,1612)	1:61:B:GLN:H	1:61:B:GLN:HA	15	0.18
(1,1599)	1:58:B:TRP:H	1:58:B:TRP:HB3	1	0.18
(1,1599)	1:58:B:TRP:H	1:58:B:TRP:HB3	2	0.18
(1,1599)	1:58:B:TRP:H	1:58:B:TRP:HB3	9	0.18
(1,1584)	1:55:B:GLY:H	1:55:B:GLY:HA3	7	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB1	1	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB2	1	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB3	1	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB1	6	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB2	6	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB3	6	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB1	7	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB2	7	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB3	7	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB1	9	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB2	9	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB3	9	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB1	11	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB2	11	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB3	11	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB1	12	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB2	12	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB3	12	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB1	13	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB2	13	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB3	13	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB1	15	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB2	15	0.18
(1,1529)	1:49:B:ALA:H	1:49:B:ALA:HB3	15	0.18
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB1	1	0.18
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB2	1	0.18
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB3	1	0.18
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB1	4	0.18
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB2	4	0.18
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB3	4	0.18
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB1	9	0.18
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB2	9	0.18
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB3	9	0.18
(1,1512)	1:47:B:LEU:HD21	1:138:B:ASN:HB3	9	0.18
(1,1512)	1:47:B:LEU:HD22	1:138:B:ASN:HB3	9	0.18
(1,1512)	1:47:B:LEU:HD23	1:138:B:ASN:HB3	9	0.18
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB2	4	0.18
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB3	4	0.18
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB2	8	0.18
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB3	8	0.18
(1,1462)	1:43:B:GLY:H	1:43:B:GLY:HA3	3	0.18
(1,1462)	1:43:B:GLY:H	1:43:B:GLY:HA3	4	0.18
(1,1441)	1:40:B:LEU:HD11	1:145:B:LEU:HB2	9	0.18
(1,1441)	1:40:B:LEU:HD12	1:145:B:LEU:HB2	9	0.18
(1,1441)	1:40:B:LEU:HD13	1:145:B:LEU:HB2	9	0.18
(1,1388)	1:33:B:LEU:H	1:33:B:LEU:HB3	3	0.18
(1,1387)	1:33:B:LEU:H	1:33:B:LEU:HB3	3	0.18
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG21	11	0.18
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG22	11	0.18
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG23	11	0.18
(1,1304)	1:23:B:ARG:H	1:23:B:ARG:HB2	12	0.18
(1,1298)	1:22:B:GLU:H	1:23:B:ARG:H	5	0.18
(1,1245)	1:18:B:MET:HE1	1:48:B:ALA:HA	6	0.18
(1,1245)	1:18:B:MET:HE2	1:48:B:ALA:HA	6	0.18
(1,1245)	1:18:B:MET:HE3	1:48:B:ALA:HA	6	0.18
(1,1212)	1:15:B:LEU:HD11	1:99:B:LEU:HD21	4	0.18
(1,1212)	1:15:B:LEU:HD11	1:99:B:LEU:HD22	4	0.18
(1,1212)	1:15:B:LEU:HD11	1:99:B:LEU:HD23	4	0.18
(1,1212)	1:15:B:LEU:HD12	1:99:B:LEU:HD21	4	0.18
(1,1212)	1:15:B:LEU:HD12	1:99:B:LEU:HD22	4	0.18
(1,1212)	1:15:B:LEU:HD12	1:99:B:LEU:HD23	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1212)	1:15:B:LEU:HD13	1:99:B:LEU:HD21	4	0.18
(1,1212)	1:15:B:LEU:HD13	1:99:B:LEU:HD22	4	0.18
(1,1212)	1:15:B:LEU:HD13	1:99:B:LEU:HD23	4	0.18
(1,1194)	1:13:B:ARG:H	1:13:B:ARG:HA	14	0.18
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD21	10	0.18
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD22	10	0.18
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD23	10	0.18
(1,1173)	1:156:A:LEU:H	1:156:A:LEU:HB2	4	0.18
(1,1139)	1:152:A:LEU:H	1:152:A:LEU:HD11	15	0.18
(1,1139)	1:152:A:LEU:H	1:152:A:LEU:HD12	15	0.18
(1,1139)	1:152:A:LEU:H	1:152:A:LEU:HD13	15	0.18
(1,1135)	1:152:A:LEU:H	1:152:A:LEU:HB3	9	0.18
(1,1121)	1:150:A:SER:H	1:150:A:SER:HB2	8	0.18
(1,1114)	1:149:A:LEU:HD11	1:28:A:CYS:H	1	0.18
(1,1114)	1:149:A:LEU:HD12	1:28:A:CYS:H	1	0.18
(1,1114)	1:149:A:LEU:HD13	1:28:A:CYS:H	1	0.18
(1,1058)	1:145:A:LEU:H	1:145:A:LEU:HB2	2	0.18
(1,1051)	1:144:A:ASN:H	1:144:A:ASN:HB2	7	0.18
(1,1051)	1:144:A:ASN:H	1:144:A:ASN:HB2	9	0.18
(1,1041)	1:143:A:LYS:H	1:143:A:LYS:HG3	3	0.18
(1,1040)	1:143:A:LYS:H	1:143:A:LYS:HB2	15	0.18
(1,1017)	1:141:A:GLU:H	1:141:A:GLU:HG3	15	0.18
(1,1011)	1:140:A:GLU:H	1:141:A:GLU:H	15	0.18
(1,944)	1:134:A:LYS:H	1:134:A:LYS:HB2	6	0.18
(1,934)	1:131:A:ALA:H	1:131:A:ALA:HB1	5	0.18
(1,934)	1:131:A:ALA:H	1:131:A:ALA:HB2	5	0.18
(1,934)	1:131:A:ALA:H	1:131:A:ALA:HB3	5	0.18
(1,916)	1:127:A:ARG:H	1:127:A:ARG:HB2	4	0.18
(1,916)	1:127:A:ARG:H	1:127:A:ARG:HB2	8	0.18
(1,889)	1:124:A:ARG:H	1:124:A:ARG:HB3	6	0.18
(1,845)	1:117:A:ARG:H	1:117:A:ARG:HA	5	0.18
(1,823)	1:109:A:LEU:H	1:109:A:LEU:HA	14	0.18
(1,817)	1:107:A:GLU:H	1:107:A:GLU:HA	11	0.18
(1,815)	1:106:A:ARG:H	1:106:A:ARG:HA	3	0.18
(1,778)	1:101:A:GLU:HB2	1:102:A:LYS:H	15	0.18
(1,663)	1:90:A:LYS:H	1:90:A:LYS:HB2	12	0.18
(1,652)	1:88:A:SER:H	1:88:A:SER:HB2	13	0.18
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG11	12	0.18
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG12	12	0.18
(1,589)	1:79:A:VAL:H	1:79:A:VAL:HG13	12	0.18
(1,561)	1:77:A:ALA:H	1:77:A:ALA:HA	6	0.18
(1,561)	1:77:A:ALA:H	1:77:A:ALA:HA	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG21	8	0.18
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG22	8	0.18
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG23	8	0.18
(1,485)	1:71:A:GLN:HB2	1:72:A:ALA:H	9	0.18
(1,484)	1:71:A:GLN:HB3	1:72:A:ALA:H	1	0.18
(1,439)	1:66:A:TRP:H	1:66:A:TRP:HB2	5	0.18
(1,431)	1:64:A:PHE:H	1:64:A:PHE:HD1	11	0.18
(1,430)	1:64:A:PHE:H	1:64:A:PHE:HB2	9	0.18
(1,430)	1:64:A:PHE:H	1:64:A:PHE:HB2	12	0.18
(1,401)	1:56:A:ASN:H	1:56:A:ASN:HA	1	0.18
(1,401)	1:56:A:ASN:H	1:56:A:ASN:HA	5	0.18
(1,401)	1:56:A:ASN:H	1:56:A:ASN:HA	11	0.18
(1,397)	1:55:A:GLY:HA3	1:56:A:ASN:H	4	0.18
(1,383)	1:53:A:ARG:HA	1:56:A:ASN:H	11	0.18
(1,378)	1:53:A:ARG:H	1:53:A:ARG:HA	9	0.18
(1,378)	1:53:A:ARG:H	1:53:A:ARG:HA	14	0.18
(1,378)	1:53:A:ARG:H	1:53:A:ARG:HA	15	0.18
(1,362)	1:52:A:VAL:H	1:52:A:VAL:HA	5	0.18
(1,362)	1:52:A:VAL:H	1:52:A:VAL:HA	12	0.18
(1,302)	1:46:A:ILE:H	1:46:A:ILE:HD11	11	0.18
(1,302)	1:46:A:ILE:H	1:46:A:ILE:HD12	11	0.18
(1,302)	1:46:A:ILE:H	1:46:A:ILE:HD13	11	0.18
(1,243)	1:40:A:LEU:HD11	1:24:A:ILE:HB	14	0.18
(1,243)	1:40:A:LEU:HD12	1:24:A:ILE:HB	14	0.18
(1,243)	1:40:A:LEU:HD13	1:24:A:ILE:HB	14	0.18
(1,228)	1:39:A:LEU:H	1:39:A:LEU:HB3	4	0.18
(1,195)	1:30:A:LYS:HB2	1:31:A:GLN:H	12	0.18
(1,169)	1:26:A:TYR:H	1:26:A:TYR:HD2	4	0.18
(1,168)	1:26:A:TYR:H	1:26:A:TYR:HD1	5	0.18
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD11	15	0.18
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD12	15	0.18
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD13	15	0.18
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG12	11	0.18
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG13	11	0.18
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG12	13	0.18
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG13	13	0.18
(1,38)	1:17:A:ASP:H	1:17:A:ASP:HB2	13	0.18
(1,25)	1:15:A:LEU:HD11	1:103:A:ALA:HA	5	0.18
(1,25)	1:15:A:LEU:HD12	1:103:A:ALA:HA	5	0.18
(1,25)	1:15:A:LEU:HD13	1:103:A:ALA:HA	5	0.18
(1,2492)	1:90:A:LYS:H	1:150:B:SER:HB3	4	0.17
(1,2383)	1:90:A:LYS:HE2	1:151:B:ASP:H	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2363)	1:156:B:LEU:H	1:156:B:LEU:HB2	9	0.17
(1,2363)	1:156:B:LEU:H	1:156:B:LEU:HB2	13	0.17
(1,2249)	1:145:B:LEU:H	1:145:B:LEU:HG	7	0.17
(1,2189)	1:139:B:GLU:H	1:139:B:GLU:HG3	15	0.17
(1,2188)	1:139:B:GLU:H	1:139:B:GLU:HB2	1	0.17
(1,2188)	1:139:B:GLU:H	1:139:B:GLU:HB2	8	0.17
(1,2188)	1:139:B:GLU:H	1:139:B:GLU:HB2	14	0.17
(1,2120)	1:130:B:LEU:H	1:130:B:LEU:HB2	10	0.17
(1,2036)	1:117:B:ARG:H	1:117:B:ARG:HB2	10	0.17
(1,2031)	1:115:B:GLU:H	1:115:B:GLU:HA	10	0.17
(1,2027)	1:114:B:LEU:H	1:114:B:LEU:HB3	13	0.17
(1,2007)	1:107:B:GLU:H	1:107:B:GLU:HA	5	0.17
(1,2007)	1:107:B:GLU:H	1:107:B:GLU:HA	6	0.17
(1,2007)	1:107:B:GLU:H	1:107:B:GLU:HA	7	0.17
(1,2005)	1:106:B:ARG:H	1:106:B:ARG:HA	9	0.17
(1,2005)	1:106:B:ARG:H	1:106:B:ARG:HA	11	0.17
(1,1962)	1:101:B:GLU:H	1:101:B:GLU:HB2	3	0.17
(1,1918)	1:96:B:GLU:H	1:96:B:GLU:HB2	2	0.17
(1,1918)	1:96:B:GLU:H	1:96:B:GLU:HB2	11	0.17
(1,1834)	1:86:B:GLY:H	1:86:B:GLY:HA2	9	0.17
(1,1822)	1:84:B:ILE:H	1:84:B:ILE:HB	11	0.17
(1,1822)	1:84:B:ILE:H	1:84:B:ILE:HB	13	0.17
(1,1820)	1:83:B:PHE:HB3	1:84:B:ILE:H	15	0.17
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB1	1	0.17
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB2	1	0.17
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB3	1	0.17
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB1	6	0.17
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB2	6	0.17
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB3	6	0.17
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB1	9	0.17
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB2	9	0.17
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB3	9	0.17
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD11	14	0.17
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD12	14	0.17
(1,1734)	1:75:B:LEU:HD11	1:99:B:LEU:HD13	14	0.17
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD11	14	0.17
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD12	14	0.17
(1,1734)	1:75:B:LEU:HD12	1:99:B:LEU:HD13	14	0.17
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD11	14	0.17
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD12	14	0.17
(1,1734)	1:75:B:LEU:HD13	1:99:B:LEU:HD13	14	0.17
(1,1703)	1:74:B:THR:HG21	1:75:B:LEU:H	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1703)	1:74:B:THR:HG22	1:75:B:LEU:H	7	0.17
(1,1703)	1:74:B:THR:HG23	1:75:B:LEU:H	7	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB1	1	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB2	1	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB3	1	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB1	2	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB2	2	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB3	2	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB1	3	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB2	3	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB3	3	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB1	4	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB2	4	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB3	4	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB1	6	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB2	6	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB3	6	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB1	8	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB2	8	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB3	8	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB1	9	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB2	9	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB3	9	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB1	10	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB2	10	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB3	10	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB1	11	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB2	11	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB3	11	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB1	12	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB2	12	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB3	12	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB1	13	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB2	13	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB3	13	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB1	14	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB2	14	0.17
(1,1679)	1:72:B:ALA:H	1:72:B:ALA:HB3	14	0.17
(1,1620)	1:64:B:PHE:H	1:64:B:PHE:HB2	5	0.17
(1,1611)	1:60:B:ALA:HB1	1:61:B:GLN:H	2	0.17
(1,1611)	1:60:B:ALA:HB2	1:61:B:GLN:H	2	0.17
(1,1611)	1:60:B:ALA:HB3	1:61:B:GLN:H	2	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1584)	1:55:B:GLY:H	1:55:B:GLY:HA3	15	0.17
(1,1568)	1:53:B:ARG:H	1:53:B:ARG:HA	9	0.17
(1,1567)	1:52:B:VAL:HG11	1:70:B:LEU:H	9	0.17
(1,1567)	1:52:B:VAL:HG12	1:70:B:LEU:H	9	0.17
(1,1567)	1:52:B:VAL:HG13	1:70:B:LEU:H	9	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB1	2	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB2	2	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB3	2	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB1	3	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB2	3	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB3	3	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB1	6	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB2	6	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB3	6	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB1	7	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB2	7	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB3	7	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB1	8	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB2	8	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB3	8	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB1	11	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB2	11	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB3	11	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB1	12	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB2	12	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB3	12	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB1	13	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB2	13	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB3	13	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB1	14	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB2	14	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB3	14	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB1	15	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB2	15	0.17
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB3	15	0.17
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB2	2	0.17
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB3	2	0.17
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB2	3	0.17
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB3	3	0.17
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB2	10	0.17
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB3	10	0.17
(1,1462)	1:43:B:GLY:H	1:43:B:GLY:HA3	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1462)	1:43:B:GLY:H	1:43:B:GLY:HA3	15	0.17
(1,1412)	1:38:B:CYS:H	1:38:B:CYS:HB2	3	0.17
(1,1388)	1:33:B:LEU:H	1:33:B:LEU:HB3	8	0.17
(1,1387)	1:33:B:LEU:H	1:33:B:LEU:HB3	8	0.17
(1,1353)	1:25:B:ILE:HG21	1:83:B:PHE:HZ	2	0.17
(1,1353)	1:25:B:ILE:HG22	1:83:B:PHE:HZ	2	0.17
(1,1353)	1:25:B:ILE:HG23	1:83:B:PHE:HZ	2	0.17
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG21	2	0.17
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG22	2	0.17
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG23	2	0.17
(1,1304)	1:23:B:ARG:H	1:23:B:ARG:HB2	2	0.17
(1,1298)	1:22:B:GLU:H	1:23:B:ARG:H	14	0.17
(1,1290)	1:21:B:GLY:HA3	1:24:B:ILE:H	4	0.17
(1,1194)	1:13:B:ARG:H	1:13:B:ARG:HA	15	0.17
(1,1189)	1:158:A:LYS:H	1:158:A:LYS:HB3	5	0.17
(1,1186)	1:159:A:LYS:H	1:159:A:LYS:HB3	12	0.17
(1,1183)	1:158:A:LYS:H	1:158:A:LYS:HB3	5	0.17
(1,1157)	1:154:A:ASN:H	1:154:A:ASN:HB2	1	0.17
(1,1071)	1:145:A:LEU:HD21	1:40:A:LEU:HB2	10	0.17
(1,1071)	1:145:A:LEU:HD22	1:40:A:LEU:HB2	10	0.17
(1,1071)	1:145:A:LEU:HD23	1:40:A:LEU:HB2	10	0.17
(1,1040)	1:143:A:LYS:H	1:143:A:LYS:HB2	14	0.17
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG21	7	0.17
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG22	7	0.17
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG23	7	0.17
(1,1008)	1:140:A:GLU:H	1:140:A:GLU:HB2	12	0.17
(1,998)	1:139:A:GLU:H	1:139:A:GLU:HB2	15	0.17
(1,991)	1:138:A:ASN:H	1:138:A:ASN:HB2	5	0.17
(1,967)	1:135:A:THR:HG21	1:17:A:ASP:HB2	6	0.17
(1,967)	1:135:A:THR:HG22	1:17:A:ASP:HB2	6	0.17
(1,967)	1:135:A:THR:HG23	1:17:A:ASP:HB2	6	0.17
(1,845)	1:117:A:ARG:H	1:117:A:ARG:HA	10	0.17
(1,838)	1:114:A:LEU:H	1:114:A:LEU:HB2	10	0.17
(1,823)	1:109:A:LEU:H	1:109:A:LEU:HA	9	0.17
(1,817)	1:107:A:GLU:H	1:107:A:GLU:HA	1	0.17
(1,817)	1:107:A:GLU:H	1:107:A:GLU:HA	6	0.17
(1,817)	1:107:A:GLU:H	1:107:A:GLU:HA	15	0.17
(1,815)	1:106:A:ARG:H	1:106:A:ARG:HA	7	0.17
(1,811)	1:105:A:MET:H	1:105:A:MET:HB2	2	0.17
(1,758)	1:99:A:LEU:HD11	1:75:A:LEU:HB3	6	0.17
(1,758)	1:99:A:LEU:HD12	1:75:A:LEU:HB3	6	0.17
(1,758)	1:99:A:LEU:HD13	1:75:A:LEU:HB3	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,729)	1:96:A:GLU:H	1:96:A:GLU:HG3	8	0.17
(1,716)	1:95:A:LYS:H	1:95:A:LYS:HB2	7	0.17
(1,656)	1:89:A:GLY:H	1:89:A:GLY:HA3	5	0.17
(1,652)	1:88:A:SER:H	1:88:A:SER:HB2	9	0.17
(1,641)	1:85:A:TYR:H	1:86:A:GLY:H	11	0.17
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD11	13	0.17
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD12	13	0.17
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD13	13	0.17
(1,561)	1:77:A:ALA:H	1:77:A:ALA:HA	4	0.17
(1,561)	1:77:A:ALA:H	1:77:A:ALA:HA	9	0.17
(1,561)	1:77:A:ALA:H	1:77:A:ALA:HA	10	0.17
(1,529)	1:75:A:LEU:HD11	1:95:A:LYS:HG2	5	0.17
(1,529)	1:75:A:LEU:HD12	1:95:A:LYS:HG2	5	0.17
(1,529)	1:75:A:LEU:HD13	1:95:A:LYS:HG2	5	0.17
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG21	4	0.17
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG22	4	0.17
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG23	4	0.17
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG21	6	0.17
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG22	6	0.17
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG23	6	0.17
(1,464)	1:68:A:VAL:HG11	1:102:A:LYS:HE2	13	0.17
(1,464)	1:68:A:VAL:HG12	1:102:A:LYS:HE2	13	0.17
(1,464)	1:68:A:VAL:HG13	1:102:A:LYS:HE2	13	0.17
(1,430)	1:64:A:PHE:H	1:64:A:PHE:HB2	8	0.17
(1,419)	1:60:A:ALA:H	1:60:A:ALA:HB1	14	0.17
(1,419)	1:60:A:ALA:H	1:60:A:ALA:HB2	14	0.17
(1,419)	1:60:A:ALA:H	1:60:A:ALA:HB3	14	0.17
(1,410)	1:58:A:TRP:H	1:59:A:LYS:H	6	0.17
(1,401)	1:56:A:ASN:H	1:56:A:ASN:HA	4	0.17
(1,401)	1:56:A:ASN:H	1:56:A:ASN:HA	14	0.17
(1,397)	1:55:A:GLY:HA3	1:56:A:ASN:H	14	0.17
(1,386)	1:54:A:LEU:H	1:54:A:LEU:HG	4	0.17
(1,380)	1:53:A:ARG:H	1:53:A:ARG:HG2	15	0.17
(1,380)	1:53:A:ARG:H	1:53:A:ARG:HG3	15	0.17
(1,378)	1:53:A:ARG:H	1:53:A:ARG:HA	4	0.17
(1,373)	1:52:A:VAL:HG11	1:69:A:GLY:HA3	14	0.17
(1,373)	1:52:A:VAL:HG12	1:69:A:GLY:HA3	14	0.17
(1,373)	1:52:A:VAL:HG13	1:69:A:GLY:HA3	14	0.17
(1,362)	1:52:A:VAL:H	1:52:A:VAL:HA	2	0.17
(1,362)	1:52:A:VAL:H	1:52:A:VAL:HA	4	0.17
(1,362)	1:52:A:VAL:H	1:52:A:VAL:HA	6	0.17
(1,362)	1:52:A:VAL:H	1:52:A:VAL:HA	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,362)	1:52:A:VAL:H	1:52:A:VAL:HA	14	0.17
(1,229)	1:39:A:LEU:H	1:39:A:LEU:HB2	7	0.17
(1,229)	1:39:A:LEU:H	1:39:A:LEU:HB2	10	0.17
(1,211)	1:36:A:ILE:HD11	1:37:A:GLY:H	9	0.17
(1,211)	1:36:A:ILE:HD12	1:37:A:GLY:H	9	0.17
(1,211)	1:36:A:ILE:HD13	1:37:A:GLY:H	9	0.17
(1,157)	1:25:A:ILE:HD11	1:79:A:VAL:HG21	12	0.17
(1,157)	1:25:A:ILE:HD11	1:79:A:VAL:HG22	12	0.17
(1,157)	1:25:A:ILE:HD11	1:79:A:VAL:HG23	12	0.17
(1,157)	1:25:A:ILE:HD12	1:79:A:VAL:HG21	12	0.17
(1,157)	1:25:A:ILE:HD12	1:79:A:VAL:HG22	12	0.17
(1,157)	1:25:A:ILE:HD12	1:79:A:VAL:HG23	12	0.17
(1,157)	1:25:A:ILE:HD13	1:79:A:VAL:HG21	12	0.17
(1,157)	1:25:A:ILE:HD13	1:79:A:VAL:HG22	12	0.17
(1,157)	1:25:A:ILE:HD13	1:79:A:VAL:HG23	12	0.17
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG12	2	0.17
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG13	2	0.17
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG12	7	0.17
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG13	7	0.17
(1,114)	1:23:A:ARG:H	1:23:A:ARG:HB2	7	0.17
(1,54)	1:18:A:MET:HE1	1:48:A:ALA:H	4	0.17
(1,54)	1:18:A:MET:HE2	1:48:A:ALA:H	4	0.17
(1,54)	1:18:A:MET:HE3	1:48:A:ALA:H	4	0.17
(1,6)	1:13:A:ARG:H	1:13:A:ARG:HB2	12	0.17
(1,2426)	1:147:A:LYS:HE3	1:94:B:ALA:HB1	1	0.16
(1,2426)	1:147:A:LYS:HE3	1:94:B:ALA:HB2	1	0.16
(1,2426)	1:147:A:LYS:HE3	1:94:B:ALA:HB3	1	0.16
(1,2407)	1:93:A:LYS:HG2	1:147:B:LYS:H	2	0.16
(1,2400)	1:150:A:SER:H	1:90:B:LYS:HA	6	0.16
(1,2287)	1:148:B:GLU:H	1:148:B:GLU:HG2	2	0.16
(1,2264)	1:146:B:GLU:H	1:146:B:GLU:HB2	1	0.16
(1,2230)	1:143:B:LYS:H	1:143:B:LYS:HB2	7	0.16
(1,2198)	1:140:B:GLU:H	1:140:B:GLU:HB2	3	0.16
(1,2188)	1:139:B:GLU:H	1:139:B:GLU:HB2	2	0.16
(1,2128)	1:133:B:MET:H	1:133:B:MET:HA	5	0.16
(1,2068)	1:122:B:GLU:H	1:122:B:GLU:HB2	13	0.16
(1,2068)	1:122:B:GLU:H	1:122:B:GLU:HB2	14	0.16
(1,2033)	1:116:B:ARG:H	1:116:B:ARG:HB2	6	0.16
(1,2031)	1:115:B:GLU:H	1:115:B:GLU:HA	4	0.16
(1,2027)	1:114:B:LEU:H	1:114:B:LEU:HB3	1	0.16
(1,2024)	1:113:B:GLU:H	1:113:B:GLU:HA	4	0.16
(1,2007)	1:107:B:GLU:H	1:107:B:GLU:HA	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2007)	1:107:B:GLU:H	1:107:B:GLU:HA	13	0.16
(1,2007)	1:107:B:GLU:H	1:107:B:GLU:HA	14	0.16
(1,2005)	1:106:B:ARG:H	1:106:B:ARG:HA	8	0.16
(1,1918)	1:96:B:GLU:H	1:96:B:GLU:HB2	5	0.16
(1,1918)	1:96:B:GLU:H	1:96:B:GLU:HB2	12	0.16
(1,1918)	1:96:B:GLU:H	1:96:B:GLU:HB2	14	0.16
(1,1882)	1:92:B:LEU:HD11	1:83:B:PHE:HZ	15	0.16
(1,1882)	1:92:B:LEU:HD12	1:83:B:PHE:HZ	15	0.16
(1,1882)	1:92:B:LEU:HD13	1:83:B:PHE:HZ	15	0.16
(1,1877)	1:92:B:LEU:H	1:94:B:ALA:HB2	9	0.16
(1,1865)	1:91:B:GLU:H	1:91:B:GLU:HB3	6	0.16
(1,1846)	1:89:B:GLY:H	1:89:B:GLY:HA3	10	0.16
(1,1834)	1:86:B:GLY:H	1:86:B:GLY:HA2	1	0.16
(1,1834)	1:86:B:GLY:H	1:86:B:GLY:HA2	8	0.16
(1,1822)	1:84:B:ILE:H	1:84:B:ILE:HB	12	0.16
(1,1761)	1:78:B:LEU:H	1:78:B:LEU:HB3	4	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB1	4	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB2	4	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB3	4	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB1	7	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB2	7	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB3	7	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB1	8	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB2	8	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB3	8	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB1	10	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB2	10	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB3	10	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB1	11	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB2	11	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB3	11	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB1	12	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB2	12	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB3	12	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB1	13	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB2	13	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB3	13	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB1	14	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB2	14	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB3	14	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB1	15	0.16
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB2	15	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB3	15	0.16
(1,1729)	1:75:B:LEU:HD21	1:95:B:LYS:HG2	8	0.16
(1,1729)	1:75:B:LEU:HD22	1:95:B:LYS:HG2	8	0.16
(1,1729)	1:75:B:LEU:HD23	1:95:B:LYS:HG2	8	0.16
(1,1703)	1:74:B:THR:HG21	1:75:B:LEU:H	15	0.16
(1,1703)	1:74:B:THR:HG22	1:75:B:LEU:H	15	0.16
(1,1703)	1:74:B:THR:HG23	1:75:B:LEU:H	15	0.16
(1,1621)	1:64:B:PHE:H	1:64:B:PHE:HD1	7	0.16
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB1	1	0.16
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB2	1	0.16
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB3	1	0.16
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB1	14	0.16
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB2	14	0.16
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB3	14	0.16
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB1	15	0.16
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB2	15	0.16
(1,1609)	1:60:B:ALA:H	1:60:B:ALA:HB3	15	0.16
(1,1607)	1:59:B:LYS:HG2	1:60:B:ALA:H	2	0.16
(1,1592)	1:56:B:ASN:H	1:57:B:LYS:H	5	0.16
(1,1568)	1:53:B:ARG:H	1:53:B:ARG:HA	6	0.16
(1,1568)	1:53:B:ARG:H	1:53:B:ARG:HA	8	0.16
(1,1563)	1:52:B:VAL:HG11	1:69:B:GLY:HA3	11	0.16
(1,1563)	1:52:B:VAL:HG12	1:69:B:GLY:HA3	11	0.16
(1,1563)	1:52:B:VAL:HG13	1:69:B:GLY:HA3	11	0.16
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB1	5	0.16
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB2	5	0.16
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB3	5	0.16
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB1	10	0.16
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB2	10	0.16
(1,1515)	1:48:B:ALA:H	1:48:B:ALA:HB3	10	0.16
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB2	1	0.16
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB3	1	0.16
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB2	11	0.16
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB3	11	0.16
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB2	12	0.16
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB3	12	0.16
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB2	13	0.16
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB3	13	0.16
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB2	14	0.16
(1,1499)	1:47:B:LEU:H	1:47:B:LEU:HB3	14	0.16
(1,1441)	1:40:B:LEU:HD11	1:145:B:LEU:HB2	8	0.16
(1,1441)	1:40:B:LEU:HD12	1:145:B:LEU:HB2	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1441)	1:40:B:LEU:HD13	1:145:B:LEU:HB2	8	0.16
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG21	13	0.16
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG22	13	0.16
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG23	13	0.16
(1,1306)	1:23:B:ARG:H	1:23:B:ARG:HG2	15	0.16
(1,1298)	1:22:B:GLU:H	1:23:B:ARG:H	12	0.16
(1,1283)	1:20:B:PHE:HA	1:22:B:GLU:H	10	0.16
(1,1245)	1:18:B:MET:HE1	1:48:B:ALA:HA	10	0.16
(1,1245)	1:18:B:MET:HE2	1:48:B:ALA:HA	10	0.16
(1,1245)	1:18:B:MET:HE3	1:48:B:ALA:HA	10	0.16
(1,1184)	1:158:A:LYS:H	1:158:A:LYS:HB2	9	0.16
(1,1180)	1:156:A:LEU:HB3	1:157:A:GLY:H	6	0.16
(1,1157)	1:154:A:ASN:H	1:154:A:ASN:HB2	10	0.16
(1,1139)	1:152:A:LEU:H	1:152:A:LEU:HD11	5	0.16
(1,1139)	1:152:A:LEU:H	1:152:A:LEU:HD12	5	0.16
(1,1139)	1:152:A:LEU:H	1:152:A:LEU:HD13	5	0.16
(1,1116)	1:149:A:LEU:HD11	1:36:A:ILE:HG21	2	0.16
(1,1116)	1:149:A:LEU:HD11	1:36:A:ILE:HG22	2	0.16
(1,1116)	1:149:A:LEU:HD11	1:36:A:ILE:HG23	2	0.16
(1,1116)	1:149:A:LEU:HD12	1:36:A:ILE:HG21	2	0.16
(1,1116)	1:149:A:LEU:HD12	1:36:A:ILE:HG22	2	0.16
(1,1116)	1:149:A:LEU:HD12	1:36:A:ILE:HG23	2	0.16
(1,1116)	1:149:A:LEU:HD13	1:36:A:ILE:HG21	2	0.16
(1,1116)	1:149:A:LEU:HD13	1:36:A:ILE:HG22	2	0.16
(1,1116)	1:149:A:LEU:HD13	1:36:A:ILE:HG23	2	0.16
(1,1074)	1:146:A:GLU:H	1:146:A:GLU:HB2	9	0.16
(1,1051)	1:144:A:ASN:H	1:144:A:ASN:HB2	12	0.16
(1,1042)	1:143:A:LYS:H	1:143:A:LYS:HG2	12	0.16
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG21	6	0.16
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG22	6	0.16
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG23	6	0.16
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG21	15	0.16
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG22	15	0.16
(1,1027)	1:142:A:ILE:H	1:142:A:ILE:HG23	15	0.16
(1,1008)	1:140:A:GLU:H	1:140:A:GLU:HB2	5	0.16
(1,955)	1:134:A:LYS:HG2	1:135:A:THR:H	13	0.16
(1,944)	1:134:A:LYS:H	1:134:A:LYS:HB2	4	0.16
(1,944)	1:134:A:LYS:H	1:134:A:LYS:HB2	8	0.16
(1,845)	1:117:A:ARG:H	1:117:A:ARG:HA	3	0.16
(1,842)	1:116:A:ARG:H	1:116:A:ARG:HA	8	0.16
(1,837)	1:114:A:LEU:H	1:114:A:LEU:HB3	8	0.16
(1,834)	1:113:A:GLU:H	1:113:A:GLU:HA	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,834)	1:113:A:GLU:H	1:113:A:GLU:HA	3	0.16
(1,834)	1:113:A:GLU:H	1:113:A:GLU:HA	4	0.16
(1,811)	1:105:A:MET:H	1:105:A:MET:HB2	1	0.16
(1,811)	1:105:A:MET:H	1:105:A:MET:HB2	7	0.16
(1,811)	1:105:A:MET:H	1:105:A:MET:HB2	13	0.16
(1,778)	1:101:A:GLU:HB2	1:102:A:LYS:H	11	0.16
(1,730)	1:96:A:GLU:H	1:96:A:GLU:HG2	13	0.16
(1,716)	1:95:A:LYS:H	1:95:A:LYS:HB2	9	0.16
(1,697)	1:92:A:LEU:HD21	1:26:A:TYR:HE1	13	0.16
(1,697)	1:92:A:LEU:HD22	1:26:A:TYR:HE1	13	0.16
(1,697)	1:92:A:LEU:HD23	1:26:A:TYR:HE1	13	0.16
(1,609)	1:81:A:GLY:HA3	1:82:A:SER:H	8	0.16
(1,588)	1:79:A:VAL:H	1:79:A:VAL:HB	1	0.16
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD11	12	0.16
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD12	12	0.16
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD13	12	0.16
(1,549)	1:75:A:LEU:HD21	1:99:A:LEU:HB2	11	0.16
(1,549)	1:75:A:LEU:HD22	1:99:A:LEU:HB2	11	0.16
(1,549)	1:75:A:LEU:HD23	1:99:A:LEU:HB2	11	0.16
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG11	4	0.16
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG12	4	0.16
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG13	4	0.16
(1,413)	1:59:A:LYS:H	1:59:A:LYS:HB2	7	0.16
(1,401)	1:56:A:ASN:H	1:56:A:ASN:HA	2	0.16
(1,401)	1:56:A:ASN:H	1:56:A:ASN:HA	7	0.16
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD11	4	0.16
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD12	4	0.16
(1,387)	1:54:A:LEU:H	1:54:A:LEU:HD13	4	0.16
(1,383)	1:53:A:ARG:HA	1:56:A:ASN:H	1	0.16
(1,378)	1:53:A:ARG:H	1:53:A:ARG:HA	8	0.16
(1,363)	1:52:A:VAL:H	1:52:A:VAL:HB	9	0.16
(1,362)	1:52:A:VAL:H	1:52:A:VAL:HA	1	0.16
(1,362)	1:52:A:VAL:H	1:52:A:VAL:HA	3	0.16
(1,362)	1:52:A:VAL:H	1:52:A:VAL:HA	7	0.16
(1,362)	1:52:A:VAL:H	1:52:A:VAL:HA	13	0.16
(1,362)	1:52:A:VAL:H	1:52:A:VAL:HA	15	0.16
(1,355)	1:51:A:ASN:H	1:51:A:ASN:HB2	11	0.16
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB2	7	0.16
(1,309)	1:47:A:LEU:H	1:47:A:LEU:HB3	7	0.16
(1,222)	1:38:A:CYS:H	1:38:A:CYS:HB2	10	0.16
(1,198)	1:33:A:LEU:H	1:33:A:LEU:HB3	6	0.16
(1,197)	1:33:A:LEU:H	1:33:A:LEU:HB3	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,172)	1:26:A:TYR:HB3	1:27:A:HIS:H	6	0.16
(1,165)	1:25:A:ILE:HG21	1:83:A:PHE:HE1	4	0.16
(1,165)	1:25:A:ILE:HG22	1:83:A:PHE:HE1	4	0.16
(1,165)	1:25:A:ILE:HG23	1:83:A:PHE:HE1	4	0.16
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG12	1	0.16
(1,124)	1:24:A:ILE:H	1:24:A:ILE:HG13	1	0.16
(1,108)	1:22:A:GLU:H	1:23:A:ARG:H	14	0.16
(1,38)	1:17:A:ASP:H	1:17:A:ASP:HB2	9	0.16
(1,30)	1:16:A:ASP:H	1:16:A:ASP:HB3	15	0.16
(1,2475)	1:147:A:LYS:HD3	1:93:B:LYS:H	1	0.15
(1,2474)	1:93:A:LYS:H	1:147:B:LYS:HG2	2	0.15
(1,2471)	1:147:A:LYS:HG3	1:93:B:LYS:H	12	0.15
(1,2460)	1:97:A:GLU:H	1:143:B:LYS:HD3	12	0.15
(1,2447)	1:100:A:LYS:HE2	1:139:B:GLU:H	4	0.15
(1,2446)	1:139:A:GLU:H	1:100:B:LYS:HE3	5	0.15
(1,2429)	1:97:A:GLU:HG3	1:143:B:LYS:H	10	0.15
(1,2426)	1:147:A:LYS:HE3	1:94:B:ALA:HB1	10	0.15
(1,2426)	1:147:A:LYS:HE3	1:94:B:ALA:HB2	10	0.15
(1,2426)	1:147:A:LYS:HE3	1:94:B:ALA:HB3	10	0.15
(1,2248)	1:145:B:LEU:H	1:145:B:LEU:HB2	11	0.15
(1,2241)	1:144:B:ASN:H	1:144:B:ASN:HB2	7	0.15
(1,2230)	1:143:B:LYS:H	1:143:B:LYS:HB2	15	0.15
(1,2198)	1:140:B:GLU:H	1:140:B:GLU:HB2	2	0.15
(1,2188)	1:139:B:GLU:H	1:139:B:GLU:HB2	6	0.15
(1,2188)	1:139:B:GLU:H	1:139:B:GLU:HB2	13	0.15
(1,2121)	1:130:B:LEU:H	1:130:B:LEU:HG	10	0.15
(1,2055)	1:120:B:GLU:H	1:120:B:GLU:HB2	6	0.15
(1,2036)	1:117:B:ARG:H	1:117:B:ARG:HB2	3	0.15
(1,2036)	1:117:B:ARG:H	1:117:B:ARG:HB2	4	0.15
(1,2007)	1:107:B:GLU:H	1:107:B:GLU:HA	11	0.15
(1,2005)	1:106:B:ARG:H	1:106:B:ARG:HA	4	0.15
(1,2005)	1:106:B:ARG:H	1:106:B:ARG:HA	7	0.15
(1,2005)	1:106:B:ARG:H	1:106:B:ARG:HA	15	0.15
(1,2003)	1:105:B:MET:H	1:105:B:MET:HG2	5	0.15
(1,1853)	1:90:B:LYS:H	1:90:B:LYS:HB2	9	0.15
(1,1846)	1:89:B:GLY:H	1:89:B:GLY:HA3	2	0.15
(1,1846)	1:89:B:GLY:H	1:89:B:GLY:HA3	4	0.15
(1,1846)	1:89:B:GLY:H	1:89:B:GLY:HA3	7	0.15
(1,1846)	1:89:B:GLY:H	1:89:B:GLY:HA3	8	0.15
(1,1846)	1:89:B:GLY:H	1:89:B:GLY:HA3	9	0.15
(1,1846)	1:89:B:GLY:H	1:89:B:GLY:HA3	11	0.15
(1,1846)	1:89:B:GLY:H	1:89:B:GLY:HA3	12	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1822)	1:84:B:ILE:H	1:84:B:ILE:HB	10	0.15
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB1	2	0.15
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB2	2	0.15
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB3	2	0.15
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB1	3	0.15
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB2	3	0.15
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB3	3	0.15
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB1	5	0.15
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB2	5	0.15
(1,1752)	1:77:B:ALA:H	1:77:B:ALA:HB3	5	0.15
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG21	5	0.15
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG22	5	0.15
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG23	5	0.15
(1,1606)	1:59:B:LYS:HB2	1:60:B:ALA:H	3	0.15
(1,1606)	1:59:B:LYS:HB2	1:60:B:ALA:H	7	0.15
(1,1599)	1:58:B:TRP:H	1:58:B:TRP:HB3	3	0.15
(1,1599)	1:58:B:TRP:H	1:58:B:TRP:HB3	8	0.15
(1,1599)	1:58:B:TRP:H	1:58:B:TRP:HB3	11	0.15
(1,1592)	1:56:B:ASN:H	1:57:B:LYS:H	7	0.15
(1,1592)	1:56:B:ASN:H	1:57:B:LYS:H	10	0.15
(1,1569)	1:53:B:ARG:H	1:53:B:ARG:HB3	2	0.15
(1,1569)	1:53:B:ARG:H	1:53:B:ARG:HB3	13	0.15
(1,1524)	1:48:B:ALA:HB1	1:18:B:MET:HG3	6	0.15
(1,1524)	1:48:B:ALA:HB2	1:18:B:MET:HG3	6	0.15
(1,1524)	1:48:B:ALA:HB3	1:18:B:MET:HG3	6	0.15
(1,1521)	1:48:B:ALA:HB1	1:18:B:MET:HA	5	0.15
(1,1521)	1:48:B:ALA:HB2	1:18:B:MET:HA	5	0.15
(1,1521)	1:48:B:ALA:HB3	1:18:B:MET:HA	5	0.15
(1,1426)	1:40:B:LEU:H	1:40:B:LEU:HB3	3	0.15
(1,1412)	1:38:B:CYS:H	1:38:B:CYS:HB2	4	0.15
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG21	3	0.15
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG22	3	0.15
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG23	3	0.15
(1,1304)	1:23:B:ARG:H	1:23:B:ARG:HB2	8	0.15
(1,1215)	1:15:B:LEU:HD11	1:103:B:ALA:HA	12	0.15
(1,1215)	1:15:B:LEU:HD12	1:103:B:ALA:HA	12	0.15
(1,1215)	1:15:B:LEU:HD13	1:103:B:ALA:HA	12	0.15
(1,1184)	1:158:A:LYS:H	1:158:A:LYS:HB2	8	0.15
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD21	14	0.15
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD22	14	0.15
(1,1175)	1:156:A:LEU:H	1:156:A:LEU:HD23	14	0.15
(1,1167)	1:155:A:LYS:H	1:155:A:LYS:HE2	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD11	10	0.15
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD12	10	0.15
(1,1145)	1:152:A:LEU:HD21	1:33:A:LEU:HD13	10	0.15
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD11	10	0.15
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD12	10	0.15
(1,1145)	1:152:A:LEU:HD22	1:33:A:LEU:HD13	10	0.15
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD11	10	0.15
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD12	10	0.15
(1,1145)	1:152:A:LEU:HD23	1:33:A:LEU:HD13	10	0.15
(1,1135)	1:152:A:LEU:H	1:152:A:LEU:HB3	11	0.15
(1,1074)	1:146:A:GLU:H	1:146:A:GLU:HB2	3	0.15
(1,1074)	1:146:A:GLU:H	1:146:A:GLU:HB2	11	0.15
(1,1059)	1:145:A:LEU:H	1:145:A:LEU:HG	9	0.15
(1,1040)	1:143:A:LYS:H	1:143:A:LYS:HB2	7	0.15
(1,1009)	1:140:A:GLU:H	1:140:A:GLU:HG3	11	0.15
(1,945)	1:134:A:LYS:H	1:134:A:LYS:HG3	5	0.15
(1,939)	1:133:A:MET:H	1:133:A:MET:HG3	7	0.15
(1,923)	1:128:A:ALA:H	1:130:A:LEU:H	6	0.15
(1,922)	1:128:A:ALA:H	1:129:A:GLU:H	3	0.15
(1,843)	1:116:A:ARG:H	1:116:A:ARG:HB2	4	0.15
(1,842)	1:116:A:ARG:H	1:116:A:ARG:HA	4	0.15
(1,842)	1:116:A:ARG:H	1:116:A:ARG:HA	10	0.15
(1,838)	1:114:A:LEU:H	1:114:A:LEU:HB2	5	0.15
(1,837)	1:114:A:LEU:H	1:114:A:LEU:HB3	13	0.15
(1,834)	1:113:A:GLU:H	1:113:A:GLU:HA	12	0.15
(1,823)	1:109:A:LEU:H	1:109:A:LEU:HA	2	0.15
(1,823)	1:109:A:LEU:H	1:109:A:LEU:HA	13	0.15
(1,821)	1:108:A:LYS:H	1:108:A:LYS:HB2	4	0.15
(1,817)	1:107:A:GLU:H	1:107:A:GLU:HA	2	0.15
(1,817)	1:107:A:GLU:H	1:107:A:GLU:HA	10	0.15
(1,817)	1:107:A:GLU:H	1:107:A:GLU:HA	12	0.15
(1,817)	1:107:A:GLU:H	1:107:A:GLU:HA	14	0.15
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD11	10	0.15
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD12	10	0.15
(1,751)	1:99:A:LEU:H	1:99:A:LEU:HD13	10	0.15
(1,728)	1:96:A:GLU:H	1:96:A:GLU:HB2	7	0.15
(1,693)	1:92:A:LEU:HD21	1:83:A:PHE:HA	12	0.15
(1,693)	1:92:A:LEU:HD22	1:83:A:PHE:HA	12	0.15
(1,693)	1:92:A:LEU:HD23	1:83:A:PHE:HA	12	0.15
(1,655)	1:88:A:SER:H	1:89:A:GLY:H	2	0.15
(1,647)	1:87:A:THR:H	1:87:A:THR:HB	7	0.15
(1,644)	1:86:A:GLY:H	1:86:A:GLY:HA2	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,630)	1:83:A:PHE:HB3	1:84:A:ILE:H	11	0.15
(1,609)	1:81:A:GLY:HA3	1:82:A:SER:H	6	0.15
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG21	15	0.15
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG22	15	0.15
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG23	15	0.15
(1,484)	1:71:A:GLN:HB3	1:72:A:ALA:H	14	0.15
(1,401)	1:56:A:ASN:H	1:56:A:ASN:HA	3	0.15
(1,362)	1:52:A:VAL:H	1:52:A:VAL:HA	11	0.15
(1,355)	1:51:A:ASN:H	1:51:A:ASN:HB2	7	0.15
(1,323)	1:47:A:LEU:HD21	1:138:A:ASN:HB2	10	0.15
(1,323)	1:47:A:LEU:HD22	1:138:A:ASN:HB2	10	0.15
(1,323)	1:47:A:LEU:HD23	1:138:A:ASN:HB2	10	0.15
(1,247)	1:40:A:LEU:HD21	1:28:A:CYS:HB2	7	0.15
(1,247)	1:40:A:LEU:HD22	1:28:A:CYS:HB2	7	0.15
(1,247)	1:40:A:LEU:HD23	1:28:A:CYS:HB2	7	0.15
(1,229)	1:39:A:LEU:H	1:39:A:LEU:HB2	8	0.15
(1,206)	1:36:A:ILE:H	1:36:A:ILE:HB	6	0.15
(1,206)	1:36:A:ILE:H	1:36:A:ILE:HB	8	0.15
(1,206)	1:36:A:ILE:H	1:36:A:ILE:HB	9	0.15
(1,206)	1:36:A:ILE:H	1:36:A:ILE:HB	10	0.15
(1,206)	1:36:A:ILE:H	1:36:A:ILE:HB	12	0.15
(1,198)	1:33:A:LEU:H	1:33:A:LEU:HB3	10	0.15
(1,197)	1:33:A:LEU:H	1:33:A:LEU:HB3	10	0.15
(1,169)	1:26:A:TYR:H	1:26:A:TYR:HD2	8	0.15
(1,165)	1:25:A:ILE:HG21	1:83:A:PHE:HE1	6	0.15
(1,165)	1:25:A:ILE:HG22	1:83:A:PHE:HE1	6	0.15
(1,165)	1:25:A:ILE:HG23	1:83:A:PHE:HE1	6	0.15
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG11	9	0.15
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG12	9	0.15
(1,162)	1:25:A:ILE:HG21	1:79:A:VAL:HG13	9	0.15
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG11	9	0.15
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG12	9	0.15
(1,162)	1:25:A:ILE:HG22	1:79:A:VAL:HG13	9	0.15
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG11	9	0.15
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG12	9	0.15
(1,162)	1:25:A:ILE:HG23	1:79:A:VAL:HG13	9	0.15
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD11	7	0.15
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD12	7	0.15
(1,151)	1:25:A:ILE:H	1:25:A:ILE:HD13	7	0.15
(1,114)	1:23:A:ARG:H	1:23:A:ARG:HB2	12	0.15
(1,100)	1:21:A:GLY:HA3	1:24:A:ILE:H	5	0.15
(1,37)	1:17:A:ASP:H	1:17:A:ASP:HB3	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB1	4	0.15
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB2	4	0.15
(1,23)	1:15:A:LEU:HD11	1:103:A:ALA:HB3	4	0.15
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB1	4	0.15
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB2	4	0.15
(1,23)	1:15:A:LEU:HD12	1:103:A:ALA:HB3	4	0.15
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB1	4	0.15
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB2	4	0.15
(1,23)	1:15:A:LEU:HD13	1:103:A:ALA:HB3	4	0.15
(1,13)	1:15:A:LEU:H	1:15:A:LEU:HG	9	0.15
(1,8)	1:13:A:ARG:H	1:13:A:ARG:HG2	5	0.15
(1,6)	1:13:A:ARG:H	1:13:A:ARG:HB2	1	0.15
(1,2483)	1:147:A:LYS:HE3	1:94:B:ALA:H	8	0.14
(1,2483)	1:147:A:LYS:HE3	1:94:B:ALA:H	15	0.14
(1,2473)	1:147:A:LYS:HG2	1:93:B:LYS:H	13	0.14
(1,2445)	1:100:A:LYS:HE3	1:139:B:GLU:H	11	0.14
(1,2445)	1:100:A:LYS:HE3	1:139:B:GLU:H	13	0.14
(1,2419)	1:93:A:LYS:HE2	1:146:B:GLU:H	9	0.14
(1,2416)	1:147:A:LYS:H	1:93:B:LYS:HE2	11	0.14
(1,2374)	1:158:B:LYS:H	1:158:B:LYS:HB2	5	0.14
(1,2347)	1:154:B:ASN:H	1:154:B:ASN:HB2	5	0.14
(1,2305)	1:149:B:LEU:HD11	1:28:B:CYS:HA	1	0.14
(1,2305)	1:149:B:LEU:HD12	1:28:B:CYS:HA	1	0.14
(1,2305)	1:149:B:LEU:HD13	1:28:B:CYS:HA	1	0.14
(1,2248)	1:145:B:LEU:H	1:145:B:LEU:HB2	5	0.14
(1,2241)	1:144:B:ASN:H	1:144:B:ASN:HB2	5	0.14
(1,2188)	1:139:B:GLU:H	1:139:B:GLU:HB2	12	0.14
(1,2077)	1:123:B:ALA:HB1	1:124:B:ARG:H	14	0.14
(1,2077)	1:123:B:ALA:HB2	1:124:B:ARG:H	14	0.14
(1,2077)	1:123:B:ALA:HB3	1:124:B:ARG:H	14	0.14
(1,2032)	1:116:B:ARG:H	1:116:B:ARG:HA	12	0.14
(1,2027)	1:114:B:LEU:H	1:114:B:LEU:HB3	10	0.14
(1,2027)	1:114:B:LEU:H	1:114:B:LEU:HB3	14	0.14
(1,2022)	1:112:B:GLN:H	1:112:B:GLN:HB2	6	0.14
(1,2007)	1:107:B:GLU:H	1:107:B:GLU:HA	12	0.14
(1,1846)	1:89:B:GLY:H	1:89:B:GLY:HA3	1	0.14
(1,1846)	1:89:B:GLY:H	1:89:B:GLY:HA3	3	0.14
(1,1846)	1:89:B:GLY:H	1:89:B:GLY:HA3	6	0.14
(1,1846)	1:89:B:GLY:H	1:89:B:GLY:HA3	13	0.14
(1,1846)	1:89:B:GLY:H	1:89:B:GLY:HA3	14	0.14
(1,1822)	1:84:B:ILE:H	1:84:B:ILE:HB	2	0.14
(1,1820)	1:83:B:PHE:HB3	1:84:B:ILE:H	1	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1814)	1:83:B:PHE:H	1:83:B:PHE:HB3	12	0.14
(1,1774)	1:78:B:LEU:HD11	1:95:B:LYS:HD2	15	0.14
(1,1774)	1:78:B:LEU:HD12	1:95:B:LYS:HD2	15	0.14
(1,1774)	1:78:B:LEU:HD13	1:95:B:LYS:HD2	15	0.14
(1,1653)	1:68:B:VAL:HG11	1:102:B:LYS:HE3	5	0.14
(1,1653)	1:68:B:VAL:HG12	1:102:B:LYS:HE3	5	0.14
(1,1653)	1:68:B:VAL:HG13	1:102:B:LYS:HE3	5	0.14
(1,1620)	1:64:B:PHE:H	1:64:B:PHE:HB2	9	0.14
(1,1607)	1:59:B:LYS:HG2	1:60:B:ALA:H	5	0.14
(1,1588)	1:55:B:GLY:HA3	1:57:B:LYS:H	1	0.14
(1,1573)	1:53:B:ARG:HA	1:56:B:ASN:H	10	0.14
(1,1568)	1:53:B:ARG:H	1:53:B:ARG:HA	4	0.14
(1,1549)	1:51:B:ASN:HA	1:54:B:LEU:H	14	0.14
(1,1435)	1:40:B:LEU:HD11	1:28:B:CYS:HB3	6	0.14
(1,1435)	1:40:B:LEU:HD12	1:28:B:CYS:HB3	6	0.14
(1,1435)	1:40:B:LEU:HD13	1:28:B:CYS:HB3	6	0.14
(1,1427)	1:40:B:LEU:H	1:40:B:LEU:HB2	4	0.14
(1,1298)	1:22:B:GLU:H	1:23:B:ARG:H	10	0.14
(1,1290)	1:21:B:GLY:HA3	1:24:B:ILE:H	7	0.14
(1,1283)	1:20:B:PHE:HA	1:22:B:GLU:H	11	0.14
(1,1187)	1:159:A:LYS:H	1:159:A:LYS:HB2	5	0.14
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD11	2	0.14
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD12	2	0.14
(1,1176)	1:156:A:LEU:H	1:156:A:LEU:HD13	2	0.14
(1,1174)	1:156:A:LEU:H	1:156:A:LEU:HG	2	0.14
(1,1173)	1:156:A:LEU:H	1:156:A:LEU:HB2	15	0.14
(1,1157)	1:154:A:ASN:H	1:154:A:ASN:HB2	14	0.14
(1,1070)	1:145:A:LEU:HD21	1:40:A:LEU:HA	2	0.14
(1,1070)	1:145:A:LEU:HD22	1:40:A:LEU:HA	2	0.14
(1,1070)	1:145:A:LEU:HD23	1:40:A:LEU:HA	2	0.14
(1,1058)	1:145:A:LEU:H	1:145:A:LEU:HB2	10	0.14
(1,955)	1:134:A:LYS:HG2	1:135:A:THR:H	14	0.14
(1,954)	1:134:A:LYS:HB3	1:135:A:THR:H	5	0.14
(1,944)	1:134:A:LYS:H	1:134:A:LYS:HB2	3	0.14
(1,923)	1:128:A:ALA:H	1:130:A:LEU:H	12	0.14
(1,922)	1:128:A:ALA:H	1:129:A:GLU:H	11	0.14
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB1	11	0.14
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB2	11	0.14
(1,921)	1:128:A:ALA:H	1:128:A:ALA:HB3	11	0.14
(1,909)	1:126:A:LYS:H	1:126:A:LYS:HB2	11	0.14
(1,846)	1:117:A:ARG:H	1:117:A:ARG:HB2	2	0.14
(1,842)	1:116:A:ARG:H	1:116:A:ARG:HA	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,842)	1:116:A:ARG:H	1:116:A:ARG:HA	6	0.14
(1,841)	1:115:A:GLU:H	1:115:A:GLU:HA	4	0.14
(1,827)	1:110:A:TRP:H	1:110:A:TRP:HB3	8	0.14
(1,823)	1:109:A:LEU:H	1:109:A:LEU:HA	3	0.14
(1,823)	1:109:A:LEU:H	1:109:A:LEU:HA	11	0.14
(1,817)	1:107:A:GLU:H	1:107:A:GLU:HA	7	0.14
(1,817)	1:107:A:GLU:H	1:107:A:GLU:HA	9	0.14
(1,817)	1:107:A:GLU:H	1:107:A:GLU:HA	13	0.14
(1,811)	1:105:A:MET:H	1:105:A:MET:HB2	5	0.14
(1,811)	1:105:A:MET:H	1:105:A:MET:HB2	12	0.14
(1,778)	1:101:A:GLU:HB2	1:102:A:LYS:H	4	0.14
(1,740)	1:97:A:GLU:H	1:97:A:GLU:HG3	6	0.14
(1,718)	1:95:A:LYS:H	1:95:A:LYS:HD3	7	0.14
(1,652)	1:88:A:SER:H	1:88:A:SER:HB2	12	0.14
(1,649)	1:87:A:THR:H	1:88:A:SER:H	1	0.14
(1,632)	1:84:A:ILE:H	1:84:A:ILE:HB	2	0.14
(1,632)	1:84:A:ILE:H	1:84:A:ILE:HB	3	0.14
(1,632)	1:84:A:ILE:H	1:84:A:ILE:HB	4	0.14
(1,632)	1:84:A:ILE:H	1:84:A:ILE:HB	7	0.14
(1,632)	1:84:A:ILE:H	1:84:A:ILE:HB	11	0.14
(1,561)	1:77:A:ALA:H	1:77:A:ALA:HA	11	0.14
(1,561)	1:77:A:ALA:H	1:77:A:ALA:HA	13	0.14
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD11	8	0.14
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD12	8	0.14
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD13	8	0.14
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD11	8	0.14
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD12	8	0.14
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD13	8	0.14
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD11	8	0.14
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD12	8	0.14
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD13	8	0.14
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD11	9	0.14
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD12	9	0.14
(1,544)	1:75:A:LEU:HD11	1:99:A:LEU:HD13	9	0.14
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD11	9	0.14
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD12	9	0.14
(1,544)	1:75:A:LEU:HD12	1:99:A:LEU:HD13	9	0.14
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD11	9	0.14
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD12	9	0.14
(1,544)	1:75:A:LEU:HD13	1:99:A:LEU:HD13	9	0.14
(1,541)	1:75:A:LEU:HD21	1:95:A:LYS:HE3	9	0.14
(1,541)	1:75:A:LEU:HD22	1:95:A:LYS:HE3	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,541)	1:75:A:LEU:HD23	1:95:A:LYS:HE3	9	0.14
(1,526)	1:75:A:LEU:HD11	1:95:A:LYS:HB3	10	0.14
(1,526)	1:75:A:LEU:HD12	1:95:A:LYS:HB3	10	0.14
(1,526)	1:75:A:LEU:HD13	1:95:A:LYS:HB3	10	0.14
(1,524)	1:75:A:LEU:HD21	1:76:A:VAL:H	14	0.14
(1,524)	1:75:A:LEU:HD22	1:76:A:VAL:H	14	0.14
(1,524)	1:75:A:LEU:HD23	1:76:A:VAL:H	14	0.14
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG11	15	0.14
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG12	15	0.14
(1,452)	1:68:A:VAL:H	1:68:A:VAL:HG13	15	0.14
(1,451)	1:68:A:VAL:H	1:68:A:VAL:HB	5	0.14
(1,451)	1:68:A:VAL:H	1:68:A:VAL:HB	6	0.14
(1,451)	1:68:A:VAL:H	1:68:A:VAL:HB	7	0.14
(1,451)	1:68:A:VAL:H	1:68:A:VAL:HB	10	0.14
(1,451)	1:68:A:VAL:H	1:68:A:VAL:HB	15	0.14
(1,425)	1:61:A:GLN:H	1:62:A:TYR:H	13	0.14
(1,401)	1:56:A:ASN:H	1:56:A:ASN:HA	15	0.14
(1,363)	1:52:A:VAL:H	1:52:A:VAL:HB	8	0.14
(1,363)	1:52:A:VAL:H	1:52:A:VAL:HB	11	0.14
(1,349)	1:50:A:GLN:H	1:50:A:GLN:HG2	12	0.14
(1,321)	1:47:A:LEU:HD21	1:138:A:ASN:HA	2	0.14
(1,321)	1:47:A:LEU:HD22	1:138:A:ASN:HA	2	0.14
(1,321)	1:47:A:LEU:HD23	1:138:A:ASN:HA	2	0.14
(1,244)	1:40:A:LEU:HD21	1:24:A:ILE:HB	12	0.14
(1,244)	1:40:A:LEU:HD22	1:24:A:ILE:HB	12	0.14
(1,244)	1:40:A:LEU:HD23	1:24:A:ILE:HB	12	0.14
(1,206)	1:36:A:ILE:H	1:36:A:ILE:HB	11	0.14
(1,195)	1:30:A:LYS:HB2	1:31:A:GLN:H	2	0.14
(1,195)	1:30:A:LYS:HB2	1:31:A:GLN:H	13	0.14
(1,179)	1:27:A:HIS:HB2	1:28:A:CYS:H	3	0.14
(1,168)	1:26:A:TYR:H	1:26:A:TYR:HD1	10	0.14
(1,137)	1:24:A:ILE:HD11	1:41:A:THR:HA	11	0.14
(1,137)	1:24:A:ILE:HD12	1:41:A:THR:HA	11	0.14
(1,137)	1:24:A:ILE:HD13	1:41:A:THR:HA	11	0.14
(1,115)	1:23:A:ARG:H	1:23:A:ARG:HG3	6	0.14
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD11	10	0.14
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD12	10	0.14
(1,14)	1:15:A:LEU:H	1:15:A:LEU:HD13	10	0.14
(1,2460)	1:97:A:GLU:H	1:143:B:LYS:HD3	3	0.13
(1,2456)	1:97:A:GLU:H	1:143:B:LYS:HG3	11	0.13
(1,2443)	1:100:A:LYS:HD2	1:140:B:GLU:H	4	0.13
(1,2433)	1:97:A:GLU:HG3	1:144:B:ASN:H	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2363)	1:156:B:LEU:H	1:156:B:LEU:HB2	5	0.13
(1,2339)	1:153:B:GLU:H	1:153:B:GLU:HG2	15	0.13
(1,2249)	1:145:B:LEU:H	1:145:B:LEU:HG	1	0.13
(1,2230)	1:143:B:LYS:H	1:143:B:LYS:HB2	1	0.13
(1,2230)	1:143:B:LYS:H	1:143:B:LYS:HB2	5	0.13
(1,2188)	1:139:B:GLU:H	1:139:B:GLU:HB2	3	0.13
(1,2188)	1:139:B:GLU:H	1:139:B:GLU:HB2	11	0.13
(1,2134)	1:134:B:LYS:H	1:134:B:LYS:HB2	14	0.13
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB1	8	0.13
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB2	8	0.13
(1,2124)	1:131:B:ALA:H	1:131:B:ALA:HB3	8	0.13
(1,2122)	1:130:B:LEU:H	1:131:B:ALA:H	14	0.13
(1,2077)	1:123:B:ALA:HB1	1:124:B:ARG:H	2	0.13
(1,2077)	1:123:B:ALA:HB2	1:124:B:ARG:H	2	0.13
(1,2077)	1:123:B:ALA:HB3	1:124:B:ARG:H	2	0.13
(1,2077)	1:123:B:ALA:HB1	1:124:B:ARG:H	5	0.13
(1,2077)	1:123:B:ALA:HB2	1:124:B:ARG:H	5	0.13
(1,2077)	1:123:B:ALA:HB3	1:124:B:ARG:H	5	0.13
(1,2077)	1:123:B:ALA:HB1	1:124:B:ARG:H	10	0.13
(1,2077)	1:123:B:ALA:HB2	1:124:B:ARG:H	10	0.13
(1,2077)	1:123:B:ALA:HB3	1:124:B:ARG:H	10	0.13
(1,2032)	1:116:B:ARG:H	1:116:B:ARG:HA	7	0.13
(1,2032)	1:116:B:ARG:H	1:116:B:ARG:HA	11	0.13
(1,2031)	1:115:B:GLU:H	1:115:B:GLU:HA	11	0.13
(1,2024)	1:113:B:GLU:H	1:113:B:GLU:HA	3	0.13
(1,2007)	1:107:B:GLU:H	1:107:B:GLU:HA	3	0.13
(1,2003)	1:105:B:MET:H	1:105:B:MET:HG2	11	0.13
(1,2001)	1:105:B:MET:H	1:105:B:MET:HB2	10	0.13
(1,1971)	1:102:B:LYS:H	1:102:B:LYS:HB2	10	0.13
(1,1796)	1:81:B:GLY:H	1:81:B:GLY:HA3	4	0.13
(1,1796)	1:81:B:GLY:H	1:81:B:GLY:HA3	10	0.13
(1,1796)	1:81:B:GLY:H	1:81:B:GLY:HA3	11	0.13
(1,1778)	1:79:B:VAL:H	1:79:B:VAL:HB	4	0.13
(1,1732)	1:75:B:LEU:HD21	1:95:B:LYS:HE2	12	0.13
(1,1732)	1:75:B:LEU:HD22	1:95:B:LYS:HE2	12	0.13
(1,1732)	1:75:B:LEU:HD23	1:95:B:LYS:HE2	12	0.13
(1,1726)	1:75:B:LEU:HD21	1:95:B:LYS:HB3	7	0.13
(1,1726)	1:75:B:LEU:HD22	1:95:B:LYS:HB3	7	0.13
(1,1726)	1:75:B:LEU:HD23	1:95:B:LYS:HB3	7	0.13
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG21	1	0.13
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG22	1	0.13
(1,1696)	1:74:B:THR:H	1:74:B:THR:HG23	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1620)	1:64:B:PHE:H	1:64:B:PHE:HB2	8	0.13
(1,1611)	1:60:B:ALA:HB1	1:61:B:GLN:H	12	0.13
(1,1611)	1:60:B:ALA:HB2	1:61:B:GLN:H	12	0.13
(1,1611)	1:60:B:ALA:HB3	1:61:B:GLN:H	12	0.13
(1,1602)	1:59:B:LYS:H	1:59:B:LYS:HB3	14	0.13
(1,1575)	1:54:B:LEU:H	1:54:B:LEU:HB3	1	0.13
(1,1575)	1:54:B:LEU:H	1:54:B:LEU:HB3	8	0.13
(1,1569)	1:53:B:ARG:H	1:53:B:ARG:HB3	3	0.13
(1,1553)	1:52:B:VAL:H	1:52:B:VAL:HB	1	0.13
(1,1553)	1:52:B:VAL:H	1:52:B:VAL:HB	11	0.13
(1,1553)	1:52:B:VAL:H	1:52:B:VAL:HB	15	0.13
(1,1549)	1:51:B:ASN:HA	1:54:B:LEU:H	15	0.13
(1,1524)	1:48:B:ALA:HB1	1:18:B:MET:HG3	10	0.13
(1,1524)	1:48:B:ALA:HB2	1:18:B:MET:HG3	10	0.13
(1,1524)	1:48:B:ALA:HB3	1:18:B:MET:HG3	10	0.13
(1,1450)	1:41:B:THR:H	1:42:B:THR:H	4	0.13
(1,1412)	1:38:B:CYS:H	1:38:B:CYS:HB2	15	0.13
(1,1306)	1:23:B:ARG:H	1:23:B:ARG:HG2	13	0.13
(1,1283)	1:20:B:PHE:HA	1:22:B:GLU:H	2	0.13
(1,1271)	1:19:B:THR:HG21	1:99:B:LEU:HG	6	0.13
(1,1271)	1:19:B:THR:HG22	1:99:B:LEU:HG	6	0.13
(1,1271)	1:19:B:THR:HG23	1:99:B:LEU:HG	6	0.13
(1,1228)	1:17:B:ASP:H	1:17:B:ASP:HB2	10	0.13
(1,1192)	1:12:B:GLU:H	1:12:B:GLU:HB3	5	0.13
(1,1189)	1:158:A:LYS:H	1:158:A:LYS:HB3	13	0.13
(1,1187)	1:159:A:LYS:H	1:159:A:LYS:HB2	13	0.13
(1,1183)	1:158:A:LYS:H	1:158:A:LYS:HB3	13	0.13
(1,1118)	1:149:A:LEU:HD21	1:28:A:CYS:H	2	0.13
(1,1118)	1:149:A:LEU:HD22	1:28:A:CYS:H	2	0.13
(1,1118)	1:149:A:LEU:HD23	1:28:A:CYS:H	2	0.13
(1,1112)	1:149:A:LEU:HD11	1:27:A:HIS:H	15	0.13
(1,1112)	1:149:A:LEU:HD12	1:27:A:HIS:H	15	0.13
(1,1112)	1:149:A:LEU:HD13	1:27:A:HIS:H	15	0.13
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD11	10	0.13
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD12	10	0.13
(1,1107)	1:149:A:LEU:H	1:149:A:LEU:HD13	10	0.13
(1,1074)	1:146:A:GLU:H	1:146:A:GLU:HB2	7	0.13
(1,1051)	1:144:A:ASN:H	1:144:A:ASN:HB2	4	0.13
(1,1040)	1:143:A:LYS:H	1:143:A:LYS:HB2	6	0.13
(1,955)	1:134:A:LYS:HG2	1:135:A:THR:H	15	0.13
(1,934)	1:131:A:ALA:H	1:131:A:ALA:HB1	8	0.13
(1,934)	1:131:A:ALA:H	1:131:A:ALA:HB2	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,934)	1:131:A:ALA:H	1:131:A:ALA:HB3	8	0.13
(1,909)	1:126:A:LYS:H	1:126:A:LYS:HB2	3	0.13
(1,878)	1:122:A:GLU:H	1:122:A:GLU:HB2	9	0.13
(1,877)	1:122:A:GLU:H	1:122:A:GLU:HG2	4	0.13
(1,834)	1:113:A:GLU:H	1:113:A:GLU:HA	11	0.13
(1,823)	1:109:A:LEU:H	1:109:A:LEU:HA	1	0.13
(1,820)	1:108:A:LYS:H	1:108:A:LYS:HB3	4	0.13
(1,817)	1:107:A:GLU:H	1:107:A:GLU:HA	3	0.13
(1,817)	1:107:A:GLU:H	1:107:A:GLU:HA	4	0.13
(1,817)	1:107:A:GLU:H	1:107:A:GLU:HA	8	0.13
(1,699)	1:93:A:LYS:H	1:93:A:LYS:HG2	5	0.13
(1,696)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	2	0.13
(1,696)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	2	0.13
(1,696)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	2	0.13
(1,694)	1:92:A:LEU:HD21	1:83:A:PHE:HZ	2	0.13
(1,694)	1:92:A:LEU:HD22	1:83:A:PHE:HZ	2	0.13
(1,694)	1:92:A:LEU:HD23	1:83:A:PHE:HZ	2	0.13
(1,666)	1:90:A:LYS:H	1:90:A:LYS:HD2	6	0.13
(1,652)	1:88:A:SER:H	1:88:A:SER:HB2	15	0.13
(1,645)	1:86:A:GLY:H	1:87:A:THR:H	15	0.13
(1,632)	1:84:A:ILE:H	1:84:A:ILE:HB	1	0.13
(1,632)	1:84:A:ILE:H	1:84:A:ILE:HB	5	0.13
(1,632)	1:84:A:ILE:H	1:84:A:ILE:HB	6	0.13
(1,632)	1:84:A:ILE:H	1:84:A:ILE:HB	8	0.13
(1,632)	1:84:A:ILE:H	1:84:A:ILE:HB	9	0.13
(1,632)	1:84:A:ILE:H	1:84:A:ILE:HB	10	0.13
(1,632)	1:84:A:ILE:H	1:84:A:ILE:HB	12	0.13
(1,632)	1:84:A:ILE:H	1:84:A:ILE:HB	13	0.13
(1,632)	1:84:A:ILE:H	1:84:A:ILE:HB	14	0.13
(1,632)	1:84:A:ILE:H	1:84:A:ILE:HB	15	0.13
(1,616)	1:82:A:SER:H	1:82:A:SER:HB2	15	0.13
(1,580)	1:78:A:LEU:HD11	1:95:A:LYS:HB2	2	0.13
(1,580)	1:78:A:LEU:HD12	1:95:A:LYS:HB2	2	0.13
(1,580)	1:78:A:LEU:HD13	1:95:A:LYS:HB2	2	0.13
(1,561)	1:77:A:ALA:H	1:77:A:ALA:HA	2	0.13
(1,561)	1:77:A:ALA:H	1:77:A:ALA:HA	14	0.13
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG21	5	0.13
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG22	5	0.13
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG23	5	0.13
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG21	7	0.13
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG22	7	0.13
(1,521)	1:75:A:LEU:H	1:76:A:VAL:HG23	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,484)	1:71:A:GLN:HB3	1:72:A:ALA:H	11	0.13
(1,451)	1:68:A:VAL:H	1:68:A:VAL:HB	2	0.13
(1,451)	1:68:A:VAL:H	1:68:A:VAL:HB	3	0.13
(1,451)	1:68:A:VAL:H	1:68:A:VAL:HB	4	0.13
(1,451)	1:68:A:VAL:H	1:68:A:VAL:HB	8	0.13
(1,451)	1:68:A:VAL:H	1:68:A:VAL:HB	9	0.13
(1,451)	1:68:A:VAL:H	1:68:A:VAL:HB	12	0.13
(1,451)	1:68:A:VAL:H	1:68:A:VAL:HB	13	0.13
(1,397)	1:55:A:GLY:HA3	1:56:A:ASN:H	3	0.13
(1,397)	1:55:A:GLY:HA3	1:56:A:ASN:H	10	0.13
(1,363)	1:52:A:VAL:H	1:52:A:VAL:HB	4	0.13
(1,362)	1:52:A:VAL:H	1:52:A:VAL:HA	8	0.13
(1,321)	1:47:A:LEU:HD21	1:138:A:ASN:HA	14	0.13
(1,321)	1:47:A:LEU:HD22	1:138:A:ASN:HA	14	0.13
(1,321)	1:47:A:LEU:HD23	1:138:A:ASN:HA	14	0.13
(1,311)	1:47:A:LEU:H	1:47:A:LEU:HD21	7	0.13
(1,311)	1:47:A:LEU:H	1:47:A:LEU:HD22	7	0.13
(1,311)	1:47:A:LEU:H	1:47:A:LEU:HD23	7	0.13
(1,279)	1:44:A:ALA:H	1:45:A:VAL:H	11	0.13
(1,250)	1:40:A:LEU:HD11	1:145:A:LEU:HB3	8	0.13
(1,250)	1:40:A:LEU:HD12	1:145:A:LEU:HB3	8	0.13
(1,250)	1:40:A:LEU:HD13	1:145:A:LEU:HB3	8	0.13
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD11	13	0.13
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD12	13	0.13
(1,238)	1:40:A:LEU:H	1:40:A:LEU:HD13	13	0.13
(1,237)	1:40:A:LEU:H	1:40:A:LEU:HB2	5	0.13
(1,165)	1:25:A:ILE:HG21	1:83:A:PHE:HE1	2	0.13
(1,165)	1:25:A:ILE:HG22	1:83:A:PHE:HE1	2	0.13
(1,165)	1:25:A:ILE:HG23	1:83:A:PHE:HE1	2	0.13
(1,164)	1:25:A:ILE:HG21	1:83:A:PHE:HE2	14	0.13
(1,164)	1:25:A:ILE:HG22	1:83:A:PHE:HE2	14	0.13
(1,164)	1:25:A:ILE:HG23	1:83:A:PHE:HE2	14	0.13
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB1	15	0.13
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB2	15	0.13
(1,140)	1:24:A:ILE:HD11	1:44:A:ALA:HB3	15	0.13
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB1	15	0.13
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB2	15	0.13
(1,140)	1:24:A:ILE:HD12	1:44:A:ALA:HB3	15	0.13
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB1	15	0.13
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB2	15	0.13
(1,140)	1:24:A:ILE:HD13	1:44:A:ALA:HB3	15	0.13
(1,116)	1:23:A:ARG:H	1:23:A:ARG:HG2	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,116)	1:23:A:ARG:H	1:23:A:ARG:HG2	13	0.13
(1,114)	1:23:A:ARG:H	1:23:A:ARG:HB2	3	0.13
(1,114)	1:23:A:ARG:H	1:23:A:ARG:HB2	14	0.13
(1,108)	1:22:A:GLU:H	1:23:A:ARG:H	7	0.13
(1,105)	1:22:A:GLU:H	1:22:A:GLU:HB3	5	0.13
(1,63)	1:18:A:MET:HE1	1:52:A:VAL:HA	13	0.13
(1,63)	1:18:A:MET:HE2	1:52:A:VAL:HA	13	0.13
(1,63)	1:18:A:MET:HE3	1:52:A:VAL:HA	13	0.13
(1,59)	1:18:A:MET:HE1	1:51:A:ASN:H	7	0.13
(1,59)	1:18:A:MET:HE2	1:51:A:ASN:H	7	0.13
(1,59)	1:18:A:MET:HE3	1:51:A:ASN:H	7	0.13
(1,55)	1:18:A:MET:HE1	1:48:A:ALA:HA	10	0.13
(1,55)	1:18:A:MET:HE2	1:48:A:ALA:HA	10	0.13
(1,55)	1:18:A:MET:HE3	1:48:A:ALA:HA	10	0.13
(1,47)	1:18:A:MET:H	1:18:A:MET:HG3	14	0.13
(1,2444)	1:140:A:GLU:H	1:100:B:LYS:HD2	11	0.12
(1,2381)	1:90:A:LYS:HE3	1:151:B:ASP:H	8	0.12
(1,2377)	1:159:B:LYS:H	1:159:B:LYS:HB2	13	0.12
(1,2374)	1:158:B:LYS:H	1:158:B:LYS:HB2	2	0.12
(1,2374)	1:158:B:LYS:H	1:158:B:LYS:HB2	3	0.12
(1,2347)	1:154:B:ASN:H	1:154:B:ASN:HB2	4	0.12
(1,2347)	1:154:B:ASN:H	1:154:B:ASN:HB2	10	0.12
(1,2216)	1:142:B:ILE:H	1:142:B:ILE:HG12	6	0.12
(1,2216)	1:142:B:ILE:H	1:142:B:ILE:HG13	6	0.12
(1,2198)	1:140:B:GLU:H	1:140:B:GLU:HB2	7	0.12
(1,2188)	1:139:B:GLU:H	1:139:B:GLU:HB2	7	0.12
(1,2134)	1:134:B:LYS:H	1:134:B:LYS:HB2	4	0.12
(1,2106)	1:127:B:ARG:H	1:127:B:ARG:HB2	7	0.12
(1,2106)	1:127:B:ARG:H	1:127:B:ARG:HB2	9	0.12
(1,2077)	1:123:B:ALA:HB1	1:124:B:ARG:H	3	0.12
(1,2077)	1:123:B:ALA:HB2	1:124:B:ARG:H	3	0.12
(1,2077)	1:123:B:ALA:HB3	1:124:B:ARG:H	3	0.12
(1,2068)	1:122:B:GLU:H	1:122:B:GLU:HB2	1	0.12
(1,2068)	1:122:B:GLU:H	1:122:B:GLU:HB2	9	0.12
(1,2033)	1:116:B:ARG:H	1:116:B:ARG:HB2	8	0.12
(1,1971)	1:102:B:LYS:H	1:102:B:LYS:HB2	5	0.12
(1,1872)	1:91:B:GLU:HB3	1:92:B:LEU:H	6	0.12
(1,1846)	1:89:B:GLY:H	1:89:B:GLY:HA3	15	0.12
(1,1814)	1:83:B:PHE:H	1:83:B:PHE:HB3	10	0.12
(1,1796)	1:81:B:GLY:H	1:81:B:GLY:HA3	1	0.12
(1,1796)	1:81:B:GLY:H	1:81:B:GLY:HA3	2	0.12
(1,1796)	1:81:B:GLY:H	1:81:B:GLY:HA3	3	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1796)	1:81:B:GLY:H	1:81:B:GLY:HA3	5	0.12
(1,1796)	1:81:B:GLY:H	1:81:B:GLY:HA3	6	0.12
(1,1796)	1:81:B:GLY:H	1:81:B:GLY:HA3	7	0.12
(1,1796)	1:81:B:GLY:H	1:81:B:GLY:HA3	8	0.12
(1,1796)	1:81:B:GLY:H	1:81:B:GLY:HA3	9	0.12
(1,1796)	1:81:B:GLY:H	1:81:B:GLY:HA3	12	0.12
(1,1796)	1:81:B:GLY:H	1:81:B:GLY:HA3	13	0.12
(1,1796)	1:81:B:GLY:H	1:81:B:GLY:HA3	14	0.12
(1,1796)	1:81:B:GLY:H	1:81:B:GLY:HA3	15	0.12
(1,1776)	1:78:B:LEU:HD11	1:95:B:LYS:HE2	6	0.12
(1,1776)	1:78:B:LEU:HD12	1:95:B:LYS:HE2	6	0.12
(1,1776)	1:78:B:LEU:HD13	1:95:B:LYS:HE2	6	0.12
(1,1661)	1:70:B:LEU:H	1:70:B:LEU:HB3	4	0.12
(1,1661)	1:70:B:LEU:H	1:70:B:LEU:HB3	8	0.12
(1,1653)	1:68:B:VAL:HG11	1:102:B:LYS:HE3	12	0.12
(1,1653)	1:68:B:VAL:HG12	1:102:B:LYS:HE3	12	0.12
(1,1653)	1:68:B:VAL:HG13	1:102:B:LYS:HE3	12	0.12
(1,1620)	1:64:B:PHE:H	1:64:B:PHE:HB2	4	0.12
(1,1616)	1:62:B:TYR:H	1:63:B:TYR:H	15	0.12
(1,1611)	1:60:B:ALA:HB1	1:61:B:GLN:H	7	0.12
(1,1611)	1:60:B:ALA:HB2	1:61:B:GLN:H	7	0.12
(1,1611)	1:60:B:ALA:HB3	1:61:B:GLN:H	7	0.12
(1,1611)	1:60:B:ALA:HB1	1:61:B:GLN:H	13	0.12
(1,1611)	1:60:B:ALA:HB2	1:61:B:GLN:H	13	0.12
(1,1611)	1:60:B:ALA:HB3	1:61:B:GLN:H	13	0.12
(1,1606)	1:59:B:LYS:HB2	1:60:B:ALA:H	11	0.12
(1,1599)	1:58:B:TRP:H	1:58:B:TRP:HB3	5	0.12
(1,1588)	1:55:B:GLY:HA3	1:57:B:LYS:H	10	0.12
(1,1575)	1:54:B:LEU:H	1:54:B:LEU:HB3	9	0.12
(1,1569)	1:53:B:ARG:H	1:53:B:ARG:HB3	1	0.12
(1,1569)	1:53:B:ARG:H	1:53:B:ARG:HB3	7	0.12
(1,1569)	1:53:B:ARG:H	1:53:B:ARG:HB3	9	0.12
(1,1569)	1:53:B:ARG:H	1:53:B:ARG:HB3	15	0.12
(1,1553)	1:52:B:VAL:H	1:52:B:VAL:HB	2	0.12
(1,1553)	1:52:B:VAL:H	1:52:B:VAL:HB	3	0.12
(1,1553)	1:52:B:VAL:H	1:52:B:VAL:HB	10	0.12
(1,1553)	1:52:B:VAL:H	1:52:B:VAL:HB	12	0.12
(1,1553)	1:52:B:VAL:H	1:52:B:VAL:HB	14	0.12
(1,1549)	1:51:B:ASN:HA	1:54:B:LEU:H	7	0.12
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG21	5	0.12
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG22	5	0.12
(1,1315)	1:24:B:ILE:H	1:24:B:ILE:HG23	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1215)	1:15:B:LEU:HD11	1:103:B:ALA:HA	10	0.12
(1,1215)	1:15:B:LEU:HD12	1:103:B:ALA:HA	10	0.12
(1,1215)	1:15:B:LEU:HD13	1:103:B:ALA:HA	10	0.12
(1,1198)	1:13:B:ARG:H	1:13:B:ARG:HG2	7	0.12
(1,1173)	1:156:A:LEU:H	1:156:A:LEU:HB2	14	0.12
(1,1147)	1:153:A:GLU:H	1:153:A:GLU:HB3	15	0.12
(1,1129)	1:151:A:ASP:H	1:151:A:ASP:HB2	3	0.12
(1,1121)	1:150:A:SER:H	1:150:A:SER:HB2	4	0.12
(1,1115)	1:149:A:LEU:HD11	1:28:A:CYS:HA	10	0.12
(1,1115)	1:149:A:LEU:HD12	1:28:A:CYS:HA	10	0.12
(1,1115)	1:149:A:LEU:HD13	1:28:A:CYS:HA	10	0.12
(1,1097)	1:148:A:GLU:H	1:148:A:GLU:HG2	7	0.12
(1,1073)	1:146:A:GLU:H	1:146:A:GLU:HB3	8	0.12
(1,1010)	1:140:A:GLU:H	1:140:A:GLU:HG2	3	0.12
(1,999)	1:139:A:GLU:H	1:139:A:GLU:HG3	11	0.12
(1,998)	1:139:A:GLU:H	1:139:A:GLU:HB2	5	0.12
(1,991)	1:138:A:ASN:H	1:138:A:ASN:HB2	2	0.12
(1,979)	1:136:A:LEU:H	1:137:A:GLU:H	3	0.12
(1,939)	1:133:A:MET:H	1:133:A:MET:HG3	6	0.12
(1,909)	1:126:A:LYS:H	1:126:A:LYS:HB2	10	0.12
(1,909)	1:126:A:LYS:H	1:126:A:LYS:HB2	14	0.12
(1,891)	1:124:A:ARG:H	1:124:A:ARG:HD3	5	0.12
(1,891)	1:124:A:ARG:H	1:124:A:ARG:HD3	12	0.12
(1,873)	1:121:A:THR:H	1:121:A:THR:HB	7	0.12
(1,865)	1:120:A:GLU:H	1:120:A:GLU:HB2	15	0.12
(1,842)	1:116:A:ARG:H	1:116:A:ARG:HA	9	0.12
(1,823)	1:109:A:LEU:H	1:109:A:LEU:HA	12	0.12
(1,821)	1:108:A:LYS:H	1:108:A:LYS:HB2	6	0.12
(1,811)	1:105:A:MET:H	1:105:A:MET:HB2	11	0.12
(1,778)	1:101:A:GLU:HB2	1:102:A:LYS:H	2	0.12
(1,778)	1:101:A:GLU:HB2	1:102:A:LYS:H	12	0.12
(1,652)	1:88:A:SER:H	1:88:A:SER:HB2	6	0.12
(1,652)	1:88:A:SER:H	1:88:A:SER:HB2	7	0.12
(1,650)	1:87:A:THR:HG21	1:88:A:SER:H	12	0.12
(1,650)	1:87:A:THR:HG22	1:88:A:SER:H	12	0.12
(1,650)	1:87:A:THR:HG23	1:88:A:SER:H	12	0.12
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD11	14	0.12
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD12	14	0.12
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD13	14	0.12
(1,609)	1:81:A:GLY:HA3	1:82:A:SER:H	9	0.12
(1,609)	1:81:A:GLY:HA3	1:82:A:SER:H	11	0.12
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD11	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD12	1	0.12
(1,572)	1:78:A:LEU:H	1:78:A:LEU:HD13	1	0.12
(1,561)	1:77:A:ALA:H	1:77:A:ALA:HA	1	0.12
(1,561)	1:77:A:ALA:H	1:77:A:ALA:HA	3	0.12
(1,561)	1:77:A:ALA:H	1:77:A:ALA:HA	5	0.12
(1,561)	1:77:A:ALA:H	1:77:A:ALA:HA	7	0.12
(1,561)	1:77:A:ALA:H	1:77:A:ALA:HA	12	0.12
(1,484)	1:71:A:GLN:HB3	1:72:A:ALA:H	5	0.12
(1,425)	1:61:A:GLN:H	1:62:A:TYR:H	9	0.12
(1,397)	1:55:A:GLY:HA3	1:56:A:ASN:H	1	0.12
(1,397)	1:55:A:GLY:HA3	1:56:A:ASN:H	7	0.12
(1,397)	1:55:A:GLY:HA3	1:56:A:ASN:H	11	0.12
(1,383)	1:53:A:ARG:HA	1:56:A:ASN:H	7	0.12
(1,335)	1:48:A:ALA:HB1	1:18:A:MET:HG2	12	0.12
(1,335)	1:48:A:ALA:HB2	1:18:A:MET:HG2	12	0.12
(1,335)	1:48:A:ALA:HB3	1:18:A:MET:HG2	12	0.12
(1,279)	1:44:A:ALA:H	1:45:A:VAL:H	4	0.12
(1,229)	1:39:A:LEU:H	1:39:A:LEU:HB2	13	0.12
(1,222)	1:38:A:CYS:H	1:38:A:CYS:HB2	12	0.12
(1,115)	1:23:A:ARG:H	1:23:A:ARG:HG3	8	0.12
(1,105)	1:22:A:GLU:H	1:22:A:GLU:HB3	3	0.12
(1,105)	1:22:A:GLU:H	1:22:A:GLU:HB3	14	0.12
(1,87)	1:19:A:THR:HG21	1:100:A:LYS:HG2	3	0.12
(1,87)	1:19:A:THR:HG22	1:100:A:LYS:HG2	3	0.12
(1,87)	1:19:A:THR:HG23	1:100:A:LYS:HG2	3	0.12
(1,55)	1:18:A:MET:HE1	1:48:A:ALA:HA	6	0.12
(1,55)	1:18:A:MET:HE2	1:48:A:ALA:HA	6	0.12
(1,55)	1:18:A:MET:HE3	1:48:A:ALA:HA	6	0.12
(1,24)	1:15:A:LEU:HD11	1:103:A:ALA:H	12	0.12
(1,24)	1:15:A:LEU:HD12	1:103:A:ALA:H	12	0.12
(1,24)	1:15:A:LEU:HD13	1:103:A:ALA:H	12	0.12
(1,2469)	1:147:A:LYS:HB2	1:93:B:LYS:H	6	0.11
(1,2455)	1:143:A:LYS:HG3	1:97:B:GLU:H	7	0.11
(1,2444)	1:140:A:GLU:H	1:100:B:LYS:HD2	8	0.11
(1,2435)	1:97:A:GLU:HG2	1:144:B:ASN:H	9	0.11
(1,2435)	1:97:A:GLU:HG2	1:144:B:ASN:H	13	0.11
(1,2311)	1:150:B:SER:H	1:150:B:SER:HB2	6	0.11
(1,2248)	1:145:B:LEU:H	1:145:B:LEU:HB2	4	0.11
(1,2248)	1:145:B:LEU:H	1:145:B:LEU:HB2	8	0.11
(1,2198)	1:140:B:GLU:H	1:140:B:GLU:HB2	5	0.11
(1,2198)	1:140:B:GLU:H	1:140:B:GLU:HB2	6	0.11
(1,2198)	1:140:B:GLU:H	1:140:B:GLU:HB2	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2136)	1:134:B:LYS:H	1:134:B:LYS:HG2	6	0.11
(1,2099)	1:126:B:LYS:H	1:126:B:LYS:HB2	15	0.11
(1,2023)	1:112:B:GLN:H	1:112:B:GLN:HG2	14	0.11
(1,2013)	1:109:B:LEU:H	1:109:B:LEU:HA	3	0.11
(1,2007)	1:107:B:GLU:H	1:107:B:GLU:HA	2	0.11
(1,1846)	1:89:B:GLY:H	1:89:B:GLY:HA3	5	0.11
(1,1806)	1:82:B:SER:H	1:82:B:SER:HB2	6	0.11
(1,1806)	1:82:B:SER:H	1:82:B:SER:HB2	15	0.11
(1,1773)	1:78:B:LEU:HD11	1:95:B:LYS:HD3	8	0.11
(1,1773)	1:78:B:LEU:HD12	1:95:B:LYS:HD3	8	0.11
(1,1773)	1:78:B:LEU:HD13	1:95:B:LYS:HD3	8	0.11
(1,1730)	1:75:B:LEU:HD21	1:95:B:LYS:HD3	7	0.11
(1,1730)	1:75:B:LEU:HD22	1:95:B:LYS:HD3	7	0.11
(1,1730)	1:75:B:LEU:HD23	1:95:B:LYS:HD3	7	0.11
(1,1641)	1:68:B:VAL:H	1:68:B:VAL:HB	5	0.11
(1,1635)	1:67:B:ARG:H	1:67:B:ARG:HB3	13	0.11
(1,1611)	1:60:B:ALA:HB1	1:61:B:GLN:H	8	0.11
(1,1611)	1:60:B:ALA:HB2	1:61:B:GLN:H	8	0.11
(1,1611)	1:60:B:ALA:HB3	1:61:B:GLN:H	8	0.11
(1,1592)	1:56:B:ASN:H	1:57:B:LYS:H	3	0.11
(1,1591)	1:56:B:ASN:H	1:56:B:ASN:HA	11	0.11
(1,1591)	1:56:B:ASN:H	1:56:B:ASN:HA	13	0.11
(1,1591)	1:56:B:ASN:H	1:56:B:ASN:HA	15	0.11
(1,1575)	1:54:B:LEU:H	1:54:B:LEU:HB3	14	0.11
(1,1573)	1:53:B:ARG:HA	1:56:B:ASN:H	2	0.11
(1,1554)	1:52:B:VAL:H	1:52:B:VAL:HG11	4	0.11
(1,1554)	1:52:B:VAL:H	1:52:B:VAL:HG12	4	0.11
(1,1554)	1:52:B:VAL:H	1:52:B:VAL:HG13	4	0.11
(1,1553)	1:52:B:VAL:H	1:52:B:VAL:HB	5	0.11
(1,1553)	1:52:B:VAL:H	1:52:B:VAL:HB	7	0.11
(1,1553)	1:52:B:VAL:H	1:52:B:VAL:HB	13	0.11
(1,1552)	1:52:B:VAL:H	1:52:B:VAL:HA	5	0.11
(1,1552)	1:52:B:VAL:H	1:52:B:VAL:HA	7	0.11
(1,1552)	1:52:B:VAL:H	1:52:B:VAL:HA	14	0.11
(1,1552)	1:52:B:VAL:H	1:52:B:VAL:HA	15	0.11
(1,1441)	1:40:B:LEU:HD11	1:145:B:LEU:HB2	2	0.11
(1,1441)	1:40:B:LEU:HD12	1:145:B:LEU:HB2	2	0.11
(1,1441)	1:40:B:LEU:HD13	1:145:B:LEU:HB2	2	0.11
(1,1388)	1:33:B:LEU:H	1:33:B:LEU:HB3	4	0.11
(1,1388)	1:33:B:LEU:H	1:33:B:LEU:HB3	10	0.11
(1,1387)	1:33:B:LEU:H	1:33:B:LEU:HB3	4	0.11
(1,1387)	1:33:B:LEU:H	1:33:B:LEU:HB3	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1327)	1:24:B:ILE:HD11	1:41:B:THR:HA	8	0.11
(1,1327)	1:24:B:ILE:HD12	1:41:B:THR:HA	8	0.11
(1,1327)	1:24:B:ILE:HD13	1:41:B:THR:HA	8	0.11
(1,1290)	1:21:B:GLY:HA3	1:24:B:ILE:H	11	0.11
(1,1289)	1:21:B:GLY:HA3	1:23:B:ARG:H	11	0.11
(1,1251)	1:18:B:MET:HE1	1:51:B:ASN:HB2	4	0.11
(1,1251)	1:18:B:MET:HE2	1:51:B:ASN:HB2	4	0.11
(1,1251)	1:18:B:MET:HE3	1:51:B:ASN:HB2	4	0.11
(1,1245)	1:18:B:MET:HE1	1:48:B:ALA:HA	1	0.11
(1,1245)	1:18:B:MET:HE2	1:48:B:ALA:HA	1	0.11
(1,1245)	1:18:B:MET:HE3	1:48:B:ALA:HA	1	0.11
(1,1199)	1:13:B:ARG:HA	1:14:B:ASP:H	14	0.11
(1,1196)	1:13:B:ARG:H	1:13:B:ARG:HB2	10	0.11
(1,1187)	1:159:A:LYS:H	1:159:A:LYS:HB2	6	0.11
(1,1174)	1:156:A:LEU:H	1:156:A:LEU:HG	12	0.11
(1,1135)	1:152:A:LEU:H	1:152:A:LEU:HB3	8	0.11
(1,1097)	1:148:A:GLU:H	1:148:A:GLU:HG2	14	0.11
(1,1059)	1:145:A:LEU:H	1:145:A:LEU:HG	5	0.11
(1,1040)	1:143:A:LYS:H	1:143:A:LYS:HB2	10	0.11
(1,954)	1:134:A:LYS:HB3	1:135:A:THR:H	10	0.11
(1,946)	1:134:A:LYS:H	1:134:A:LYS:HG2	7	0.11
(1,927)	1:129:A:GLU:H	1:130:A:LEU:H	9	0.11
(1,877)	1:122:A:GLU:H	1:122:A:GLU:HG2	9	0.11
(1,873)	1:121:A:THR:H	1:121:A:THR:HB	3	0.11
(1,847)	1:117:A:ARG:H	1:117:A:ARG:HG3	2	0.11
(1,845)	1:117:A:ARG:H	1:117:A:ARG:HA	7	0.11
(1,843)	1:116:A:ARG:H	1:116:A:ARG:HB2	11	0.11
(1,838)	1:114:A:LEU:H	1:114:A:LEU:HB2	1	0.11
(1,834)	1:113:A:GLU:H	1:113:A:GLU:HA	2	0.11
(1,834)	1:113:A:GLU:H	1:113:A:GLU:HA	9	0.11
(1,834)	1:113:A:GLU:H	1:113:A:GLU:HA	15	0.11
(1,823)	1:109:A:LEU:H	1:109:A:LEU:HA	5	0.11
(1,823)	1:109:A:LEU:H	1:109:A:LEU:HA	6	0.11
(1,821)	1:108:A:LYS:H	1:108:A:LYS:HB2	7	0.11
(1,811)	1:105:A:MET:H	1:105:A:MET:HB2	4	0.11
(1,758)	1:99:A:LEU:HD11	1:75:A:LEU:HB3	10	0.11
(1,758)	1:99:A:LEU:HD12	1:75:A:LEU:HB3	10	0.11
(1,758)	1:99:A:LEU:HD13	1:75:A:LEU:HB3	10	0.11
(1,616)	1:82:A:SER:H	1:82:A:SER:HB2	8	0.11
(1,484)	1:71:A:GLN:HB3	1:72:A:ALA:H	7	0.11
(1,431)	1:64:A:PHE:H	1:64:A:PHE:HD1	5	0.11
(1,383)	1:53:A:ARG:HA	1:56:A:ASN:H	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,373)	1:52:A:VAL:HG11	1:69:A:GLY:HA3	13	0.11
(1,373)	1:52:A:VAL:HG12	1:69:A:GLY:HA3	13	0.11
(1,373)	1:52:A:VAL:HG13	1:69:A:GLY:HA3	13	0.11
(1,355)	1:51:A:ASN:H	1:51:A:ASN:HB2	3	0.11
(1,355)	1:51:A:ASN:H	1:51:A:ASN:HB2	5	0.11
(1,331)	1:48:A:ALA:HB1	1:18:A:MET:HA	11	0.11
(1,331)	1:48:A:ALA:HB2	1:18:A:MET:HA	11	0.11
(1,331)	1:48:A:ALA:HB3	1:18:A:MET:HA	11	0.11
(1,320)	1:47:A:LEU:HD11	1:138:A:ASN:HB2	10	0.11
(1,320)	1:47:A:LEU:HD12	1:138:A:ASN:HB2	10	0.11
(1,320)	1:47:A:LEU:HD13	1:138:A:ASN:HB2	10	0.11
(1,279)	1:44:A:ALA:H	1:45:A:VAL:H	5	0.11
(1,279)	1:44:A:ALA:H	1:45:A:VAL:H	14	0.11
(1,237)	1:40:A:LEU:H	1:40:A:LEU:HB2	15	0.11
(1,229)	1:39:A:LEU:H	1:39:A:LEU:HB2	1	0.11
(1,229)	1:39:A:LEU:H	1:39:A:LEU:HB2	14	0.11
(1,222)	1:38:A:CYS:H	1:38:A:CYS:HB2	1	0.11
(1,222)	1:38:A:CYS:H	1:38:A:CYS:HB2	6	0.11
(1,192)	1:30:A:LYS:H	1:30:A:LYS:HB3	1	0.11
(1,148)	1:25:A:ILE:H	1:25:A:ILE:HB	4	0.11
(1,115)	1:23:A:ARG:H	1:23:A:ARG:HG3	13	0.11
(1,114)	1:23:A:ARG:H	1:23:A:ARG:HB2	9	0.11
(1,105)	1:22:A:GLU:H	1:22:A:GLU:HB3	1	0.11
(1,105)	1:22:A:GLU:H	1:22:A:GLU:HB3	12	0.11
(1,105)	1:22:A:GLU:H	1:22:A:GLU:HB3	13	0.11
(1,100)	1:21:A:GLY:HA3	1:24:A:ILE:H	15	0.11
(1,2467)	1:147:A:LYS:HB3	1:93:B:LYS:H	12	0.1
(1,2432)	1:143:A:LYS:H	1:97:B:GLU:HG2	2	0.1
(1,2403)	1:93:A:LYS:HB2	1:147:B:LYS:H	7	0.1
(1,2362)	1:156:B:LEU:H	1:156:B:LEU:HB3	7	0.1
(1,2339)	1:153:B:GLU:H	1:153:B:GLU:HG2	7	0.1
(1,2319)	1:151:B:ASP:H	1:151:B:ASP:HB2	5	0.1
(1,2263)	1:146:B:GLU:H	1:146:B:GLU:HB3	4	0.1
(1,2077)	1:123:B:ALA:HB1	1:124:B:ARG:H	11	0.1
(1,2077)	1:123:B:ALA:HB2	1:124:B:ARG:H	11	0.1
(1,2077)	1:123:B:ALA:HB3	1:124:B:ARG:H	11	0.1
(1,2077)	1:123:B:ALA:HB1	1:124:B:ARG:H	13	0.1
(1,2077)	1:123:B:ALA:HB2	1:124:B:ARG:H	13	0.1
(1,2077)	1:123:B:ALA:HB3	1:124:B:ARG:H	13	0.1
(1,2036)	1:117:B:ARG:H	1:117:B:ARG:HB2	2	0.1
(1,2035)	1:117:B:ARG:H	1:117:B:ARG:HA	4	0.1
(1,2024)	1:113:B:GLU:H	1:113:B:GLU:HA	8	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2022)	1:112:B:GLN:H	1:112:B:GLN:HB2	3	0.1
(1,2022)	1:112:B:GLN:H	1:112:B:GLN:HB2	12	0.1
(1,2011)	1:108:B:LYS:H	1:108:B:LYS:HB2	9	0.1
(1,2011)	1:108:B:LYS:H	1:108:B:LYS:HB2	10	0.1
(1,1986)	1:103:B:ALA:HB1	1:15:B:LEU:HB2	8	0.1
(1,1986)	1:103:B:ALA:HB2	1:15:B:LEU:HB2	8	0.1
(1,1986)	1:103:B:ALA:HB3	1:15:B:LEU:HB2	8	0.1
(1,1906)	1:95:B:LYS:H	1:95:B:LYS:HB2	8	0.1
(1,1820)	1:83:B:PHE:HB3	1:84:B:ILE:H	4	0.1
(1,1814)	1:83:B:PHE:H	1:83:B:PHE:HB3	11	0.1
(1,1653)	1:68:B:VAL:HG11	1:102:B:LYS:HE3	14	0.1
(1,1653)	1:68:B:VAL:HG12	1:102:B:LYS:HE3	14	0.1
(1,1653)	1:68:B:VAL:HG13	1:102:B:LYS:HE3	14	0.1
(1,1641)	1:68:B:VAL:H	1:68:B:VAL:HB	4	0.1
(1,1641)	1:68:B:VAL:H	1:68:B:VAL:HB	7	0.1
(1,1635)	1:67:B:ARG:H	1:67:B:ARG:HB3	3	0.1
(1,1635)	1:67:B:ARG:H	1:67:B:ARG:HB3	9	0.1
(1,1635)	1:67:B:ARG:H	1:67:B:ARG:HB3	10	0.1
(1,1635)	1:67:B:ARG:H	1:67:B:ARG:HB3	11	0.1
(1,1635)	1:67:B:ARG:H	1:67:B:ARG:HB3	12	0.1
(1,1635)	1:67:B:ARG:H	1:67:B:ARG:HB3	14	0.1
(1,1611)	1:60:B:ALA:HB1	1:61:B:GLN:H	4	0.1
(1,1611)	1:60:B:ALA:HB2	1:61:B:GLN:H	4	0.1
(1,1611)	1:60:B:ALA:HB3	1:61:B:GLN:H	4	0.1
(1,1591)	1:56:B:ASN:H	1:56:B:ASN:HA	6	0.1
(1,1591)	1:56:B:ASN:H	1:56:B:ASN:HA	14	0.1
(1,1575)	1:54:B:LEU:H	1:54:B:LEU:HB3	7	0.1
(1,1554)	1:52:B:VAL:H	1:52:B:VAL:HG11	8	0.1
(1,1554)	1:52:B:VAL:H	1:52:B:VAL:HG12	8	0.1
(1,1554)	1:52:B:VAL:H	1:52:B:VAL:HG13	8	0.1
(1,1552)	1:52:B:VAL:H	1:52:B:VAL:HA	11	0.1
(1,1156)	1:154:A:ASN:H	1:154:A:ASN:HB3	5	0.1
(1,1156)	1:154:A:ASN:H	1:154:A:ASN:HB3	12	0.1
(1,1128)	1:151:A:ASP:H	1:151:A:ASP:HB3	1	0.1
(1,1128)	1:151:A:ASP:H	1:151:A:ASP:HB3	4	0.1
(1,1128)	1:151:A:ASP:H	1:151:A:ASP:HB3	6	0.1
(1,1128)	1:151:A:ASP:H	1:151:A:ASP:HB3	8	0.1
(1,1128)	1:151:A:ASP:H	1:151:A:ASP:HB3	9	0.1
(1,1128)	1:151:A:ASP:H	1:151:A:ASP:HB3	13	0.1
(1,1128)	1:151:A:ASP:H	1:151:A:ASP:HB3	14	0.1
(1,1121)	1:150:A:SER:H	1:150:A:SER:HB2	11	0.1
(1,1066)	1:145:A:LEU:HD11	1:40:A:LEU:HA	15	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1066)	1:145:A:LEU:HD12	1:40:A:LEU:HA	15	0.1
(1,1066)	1:145:A:LEU:HD13	1:40:A:LEU:HA	15	0.1
(1,1011)	1:140:A:GLU:H	1:141:A:GLU:H	11	0.1
(1,1007)	1:140:A:GLU:H	1:140:A:GLU:HB3	4	0.1
(1,935)	1:131:A:ALA:H	1:132:A:ARG:H	11	0.1
(1,933)	1:131:A:ALA:H	1:131:A:ALA:HA	11	0.1
(1,917)	1:127:A:ARG:H	1:128:A:ALA:H	2	0.1
(1,889)	1:124:A:ARG:H	1:124:A:ARG:HB3	2	0.1
(1,846)	1:117:A:ARG:H	1:117:A:ARG:HB2	9	0.1
(1,846)	1:117:A:ARG:H	1:117:A:ARG:HB2	13	0.1
(1,838)	1:114:A:LEU:H	1:114:A:LEU:HB2	4	0.1
(1,838)	1:114:A:LEU:H	1:114:A:LEU:HB2	9	0.1
(1,837)	1:114:A:LEU:H	1:114:A:LEU:HB3	14	0.1
(1,827)	1:110:A:TRP:H	1:110:A:TRP:HB3	6	0.1
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB2	6	0.1
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB3	6	0.1
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB2	7	0.1
(1,824)	1:109:A:LEU:H	1:109:A:LEU:HB3	7	0.1
(1,701)	1:93:A:LYS:H	1:93:A:LYS:HD2	12	0.1
(1,652)	1:88:A:SER:H	1:88:A:SER:HB2	14	0.1
(1,639)	1:85:A:TYR:H	1:85:A:TYR:HB2	3	0.1
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD11	3	0.1
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD12	3	0.1
(1,633)	1:84:A:ILE:H	1:84:A:ILE:HD13	3	0.1
(1,561)	1:77:A:ALA:H	1:77:A:ALA:HA	15	0.1
(1,445)	1:67:A:ARG:H	1:67:A:ARG:HB3	12	0.1
(1,419)	1:60:A:ALA:H	1:60:A:ALA:HB1	12	0.1
(1,419)	1:60:A:ALA:H	1:60:A:ALA:HB2	12	0.1
(1,419)	1:60:A:ALA:H	1:60:A:ALA:HB3	12	0.1
(1,417)	1:59:A:LYS:HG2	1:60:A:ALA:H	12	0.1
(1,362)	1:52:A:VAL:H	1:52:A:VAL:HA	9	0.1
(1,279)	1:44:A:ALA:H	1:45:A:VAL:H	3	0.1
(1,279)	1:44:A:ALA:H	1:45:A:VAL:H	8	0.1
(1,237)	1:40:A:LEU:H	1:40:A:LEU:HB2	9	0.1
(1,195)	1:30:A:LYS:HB2	1:31:A:GLN:H	8	0.1
(1,192)	1:30:A:LYS:H	1:30:A:LYS:HB3	11	0.1
(1,169)	1:26:A:TYR:H	1:26:A:TYR:HD2	11	0.1
(1,169)	1:26:A:TYR:H	1:26:A:TYR:HD2	12	0.1
(1,115)	1:23:A:ARG:H	1:23:A:ARG:HG3	9	0.1
(1,105)	1:22:A:GLU:H	1:22:A:GLU:HB3	11	0.1
(1,98)	1:21:A:GLY:HA3	1:22:A:GLU:H	10	0.1
(1,55)	1:18:A:MET:HE1	1:48:A:ALA:HA	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,55)	1:18:A:MET:HE2	1:48:A:ALA:HA	2	0.1
(1,55)	1:18:A:MET:HE3	1:48:A:ALA:HA	2	0.1

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

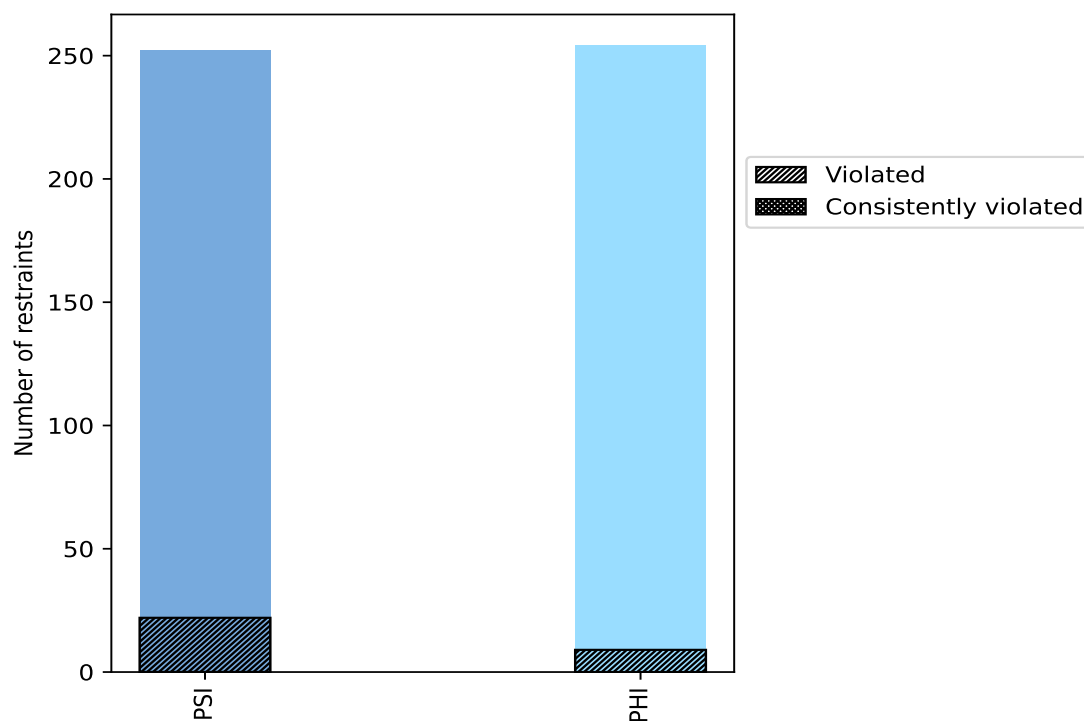
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PSI	252	49.8	22	8.7	4.3	0	0.0	0.0
PHI	254	50.2	9	3.5	1.8	0	0.0	0.0
Total	506	100.0	31	6.1	6.1	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](#)



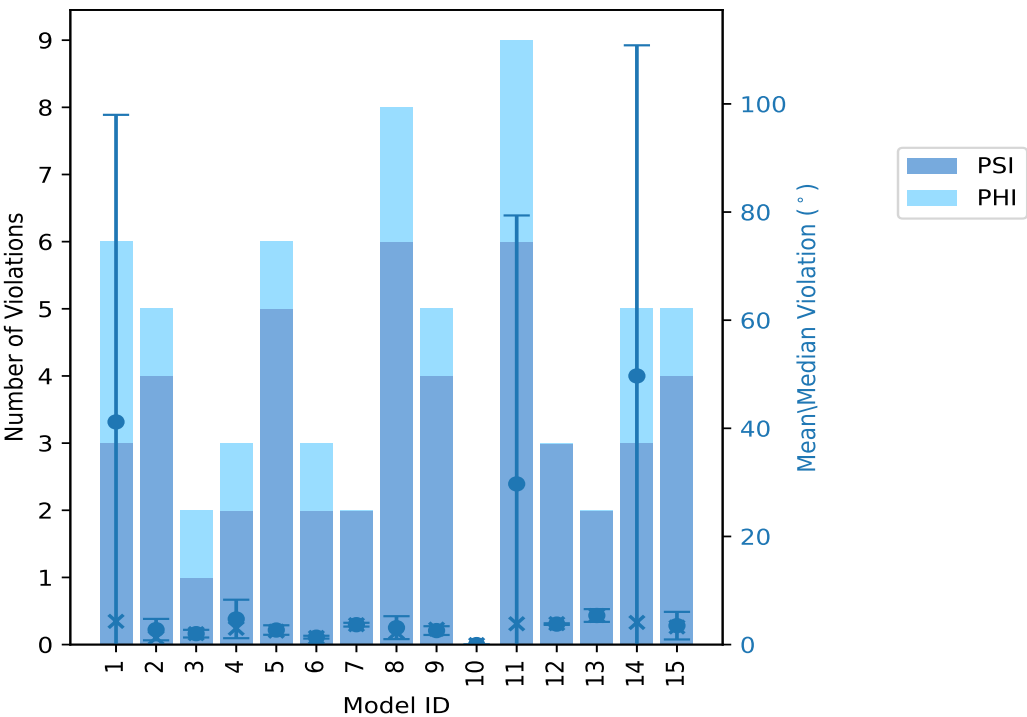
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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 (°)
	PSI	PHI	Total				
1	3	3	6	41.18	151.02	56.8	4.3
2	4	1	5	2.77	6.07	1.98	1.28
3	1	1	2	2.02	2.73	0.71	2.02
4	2	1	3	4.74	9.7	3.56	3.01
5	5	1	6	2.69	3.85	0.88	2.49
6	2	1	3	1.37	1.71	0.26	1.32
7	2	0	2	3.68	4.03	0.35	3.68
8	6	2	8	3.13	8.22	2.12	2.29
9	4	1	5	2.59	3.56	0.81	2.86
10	0	0	0	0.0	0.0	0.0	0.0
11	6	3	9	29.72	151.32	49.65	3.85
12	3	0	3	3.79	3.92	0.15	3.88
13	2	0	2	5.38	6.56	1.18	5.38
14	3	2	5	49.69	151.28	61.15	4.1
15	4	1	5	3.5	8.2	2.55	3.26

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

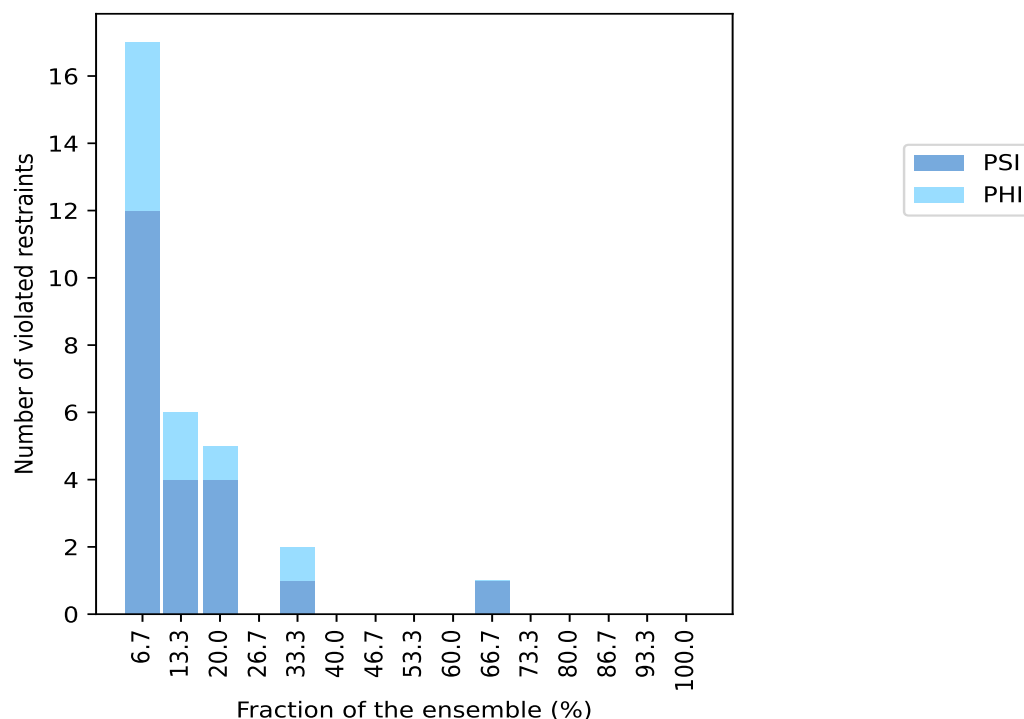
10.3 Dihedral-angle violation statistics for the ensemble [i](#)

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

Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count ¹	%
12	5	17	1	6.7
4	2	6	2	13.3
4	1	5	3	20.0
0	0	0	4	26.7
1	1	2	5	33.3
0	0	0	6	40.0
0	0	0	7	46.7
0	0	0	8	53.3
0	0	0	9	60.0
1	0	1	10	66.7
0	0	0	11	73.3
0	0	0	12	80.0
0	0	0	13	86.7
0	0	0	14	93.3
0	0	0	15	100.0

¹ Number of models with violations

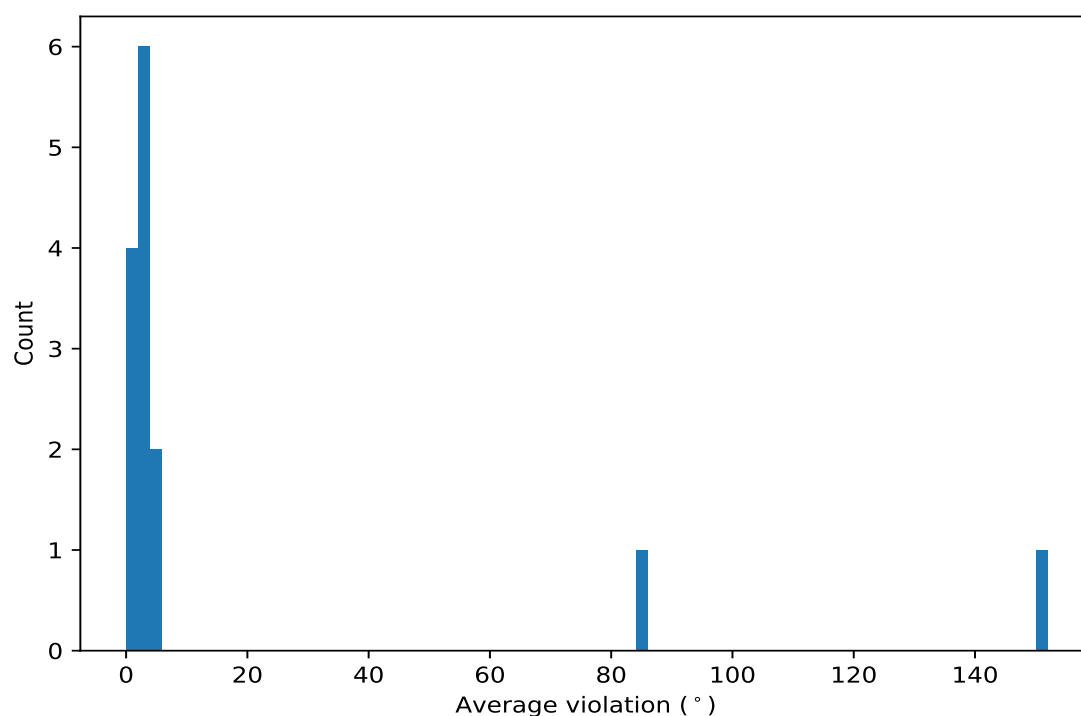
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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.

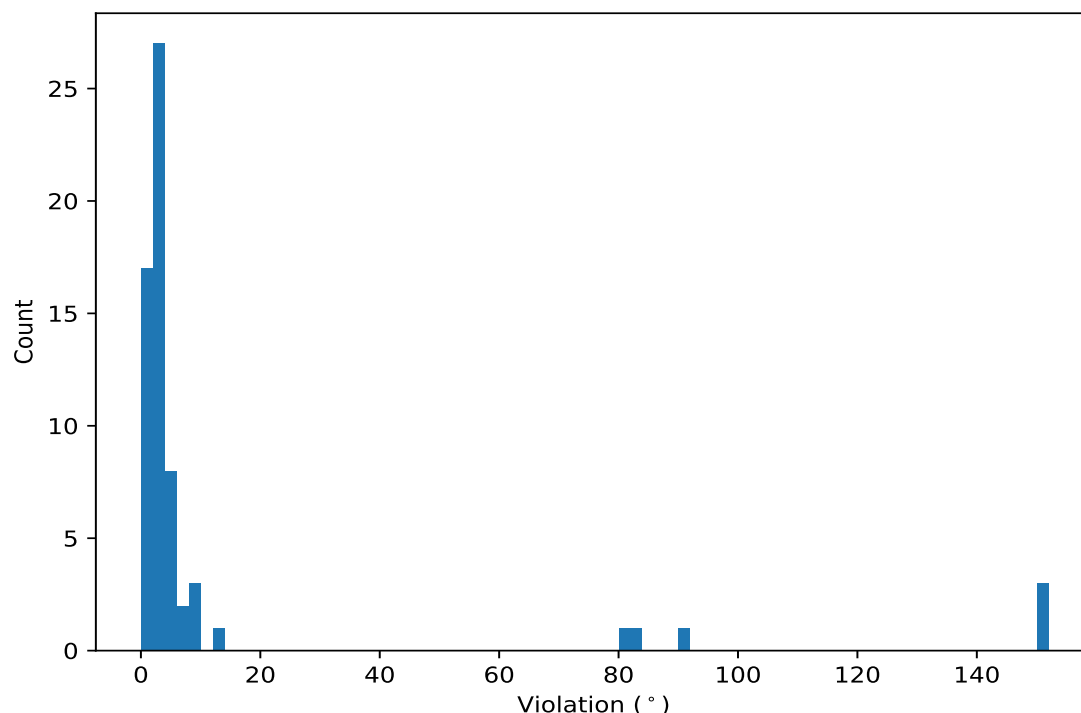
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,317)	1:45:B:VAL:N	1:45:B:VAL:CA	1:45:B:VAL:C	1:46:B:ILE:N	10	3.6	0.48	3.59
(1,371)	1:78:B:LEU:N	1:78:B:LEU:CA	1:78:B:LEU:C	1:79:B:VAL:N	5	4.86	2.17	4.06
(1,430)	1:116:B:ARG:C	1:117:B:ARG:N	1:117:B:ARG:CA	1:117:B:ARG:C	5	1.31	0.17	1.31
(1,35)	1:30:A:LYS:C	1:31:A:GLN:N	1:31:A:GLN:CA	1:31:A:GLN:C	3	151.21	0.13	151.28
(1,34)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLN:N	3	85.14	3.65	83.55
(1,36)	1:31:A:GLN:N	1:31:A:GLN:CA	1:31:A:GLN:C	1:32:A:PRO:N	3	4.78	3.51	2.94
(1,313)	1:43:B:GLY:N	1:43:B:GLY:CA	1:43:B:GLY:C	1:44:B:ALA:N	3	3.79	0.19	3.77
(1,455)	1:129:B:GLU:N	1:129:B:GLU:CA	1:129:B:GLU:C	1:130:B:LEU:N	3	2.51	0.28	2.44
(1,12)	1:19:A:THR:N	1:19:A:THR:CA	1:19:A:THR:C	1:20:A:PHE:N	2	3.37	0.21	3.37
(1,265)	1:19:B:THR:N	1:19:B:THR:CA	1:19:B:THR:C	1:20:B:PHE:N	2	2.52	1.4	2.52
(1,343)	1:64:B:PHE:N	1:64:B:PHE:CA	1:64:B:PHE:C	1:65:B:ARG:N	2	2.31	0.22	2.31
(1,338)	1:55:B:GLY:C	1:56:B:ASN:N	1:56:B:ASN:CA	1:56:B:ASN:C	2	1.64	0.52	1.64
(1,22)	1:24:A:ILE:N	1:24:A:ILE:CA	1:24:A:ILE:C	1:25:A:ILE:N	2	1.33	0.05	1.33
(1,330)	1:51:B:ASN:C	1:52:B:VAL:N	1:52:B:VAL:CA	1:52:B:VAL:C	2	1.3	0.22	1.3

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 (°)
(1,35)	1:30:A:LYS:C	1:31:A:GLN:N	1:31:A:GLN:CA	1:31:A:GLN:C	11	151.32
(1,35)	1:30:A:LYS:C	1:31:A:GLN:N	1:31:A:GLN:CA	1:31:A:GLN:C	14	151.28
(1,35)	1:30:A:LYS:C	1:31:A:GLN:N	1:31:A:GLN:CA	1:31:A:GLN:C	1	151.02
(1,34)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLN:N	14	90.18
(1,34)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLN:N	11	83.55
(1,34)	1:30:A:LYS:N	1:30:A:LYS:CA	1:30:A:LYS:C	1:31:A:GLN:N	1	81.68
(1,199)	1:127:A:ARG:C	1:128:A:ALA:N	1:128:A:ALA:CA	1:128:A:ALA:C	11	13.95
(1,36)	1:31:A:GLN:N	1:31:A:GLN:CA	1:31:A:GLN:C	1:32:A:PRO:N	4	9.7
(1,273)	1:23:B:ARG:N	1:23:B:ARG:CA	1:23:B:ARG:C	1:24:B:ILE:N	8	8.22
(1,371)	1:78:B:LEU:N	1:78:B:LEU:CA	1:78:B:LEU:C	1:79:B:VAL:N	15	8.2
(1,371)	1:78:B:LEU:N	1:78:B:LEU:CA	1:78:B:LEU:C	1:79:B:VAL:N	13	6.56
(1,194)	1:125:A:ARG:N	1:125:A:ARG:CA	1:125:A:ARG:C	1:126:A:LYS:N	2	6.07
(1,491)	1:151:B:ASP:N	1:151:B:ASP:CA	1:151:B:ASP:C	1:152:B:LEU:N	8	4.36
(1,452)	1:127:B:ARG:C	1:128:B:ALA:N	1:128:B:ALA:CA	1:128:B:ALA:C	1	4.36

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,317)	1:45:B:VAL:N	1:45:B:VAL:CA	1:45:B:VAL:C	1:46:B:ILE:N	11	4.25
(1,89)	1:63:A:TYR:C	1:64:A:PHE:N	1:64:A:PHE:CA	1:64:A:PHE:C	1	4.24
(1,317)	1:45:B:VAL:N	1:45:B:VAL:CA	1:45:B:VAL:C	1:46:B:ILE:N	13	4.2
(1,317)	1:45:B:VAL:N	1:45:B:VAL:CA	1:45:B:VAL:C	1:46:B:ILE:N	14	4.1
(1,371)	1:78:B:LEU:N	1:78:B:LEU:CA	1:78:B:LEU:C	1:79:B:VAL:N	2	4.06
(1,313)	1:43:B:GLY:N	1:43:B:GLY:CA	1:43:B:GLY:C	1:44:B:ALA:N	7	4.03
(1,265)	1:19:B:THR:N	1:19:B:THR:CA	1:19:B:THR:C	1:20:B:PHE:N	12	3.92
(1,317)	1:45:B:VAL:N	1:45:B:VAL:CA	1:45:B:VAL:C	1:46:B:ILE:N	12	3.88
(1,317)	1:45:B:VAL:N	1:45:B:VAL:CA	1:45:B:VAL:C	1:46:B:ILE:N	5	3.85
(1,202)	1:129:A:GLU:N	1:129:A:GLU:CA	1:129:A:GLU:C	1:130:A:LEU:N	11	3.85
(1,313)	1:43:B:GLY:N	1:43:B:GLY:CA	1:43:B:GLY:C	1:44:B:ALA:N	5	3.77
(1,12)	1:19:A:THR:N	1:19:A:THR:CA	1:19:A:THR:C	1:20:A:PHE:N	12	3.58
(1,345)	1:65:B:ARG:N	1:65:B:ARG:CA	1:65:B:ARG:C	1:66:B:TRP:N	9	3.56
(1,313)	1:43:B:GLY:N	1:43:B:GLY:CA	1:43:B:GLY:C	1:44:B:ALA:N	15	3.56
(1,198)	1:127:A:ARG:N	1:127:A:ARG:CA	1:127:A:ARG:C	1:128:A:ALA:N	11	3.5
(1,317)	1:45:B:VAL:N	1:45:B:VAL:CA	1:45:B:VAL:C	1:46:B:ILE:N	7	3.33
(1,317)	1:45:B:VAL:N	1:45:B:VAL:CA	1:45:B:VAL:C	1:46:B:ILE:N	1	3.31
(1,317)	1:45:B:VAL:N	1:45:B:VAL:CA	1:45:B:VAL:C	1:46:B:ILE:N	15	3.26
(1,12)	1:19:A:THR:N	1:19:A:THR:CA	1:19:A:THR:C	1:20:A:PHE:N	11	3.16
(1,317)	1:45:B:VAL:N	1:45:B:VAL:CA	1:45:B:VAL:C	1:46:B:ILE:N	4	3.01
(1,36)	1:31:A:GLN:N	1:31:A:GLN:CA	1:31:A:GLN:C	1:32:A:PRO:N	8	2.94
(1,455)	1:129:B:GLU:N	1:129:B:GLU:CA	1:129:B:GLU:C	1:130:B:LEU:N	9	2.88
(1,317)	1:45:B:VAL:N	1:45:B:VAL:CA	1:45:B:VAL:C	1:46:B:ILE:N	9	2.86
(1,371)	1:78:B:LEU:N	1:78:B:LEU:CA	1:78:B:LEU:C	1:79:B:VAL:N	5	2.77
(1,201)	1:128:A:ALA:C	1:129:A:GLU:N	1:129:A:GLU:CA	1:129:A:GLU:C	11	2.74
(1,371)	1:78:B:LEU:N	1:78:B:LEU:CA	1:78:B:LEU:C	1:79:B:VAL:N	3	2.73
(1,343)	1:64:B:PHE:N	1:64:B:PHE:CA	1:64:B:PHE:C	1:65:B:ARG:N	9	2.53
(1,455)	1:129:B:GLU:N	1:129:B:GLU:CA	1:129:B:GLU:C	1:130:B:LEU:N	1	2.44
(1,275)	1:24:B:ILE:N	1:24:B:ILE:CA	1:24:B:ILE:C	1:25:B:ILE:N	8	2.41
(1,455)	1:129:B:GLU:N	1:129:B:GLU:CA	1:129:B:GLU:C	1:130:B:LEU:N	5	2.2
(1,338)	1:55:B:GLY:C	1:56:B:ASN:N	1:56:B:ASN:CA	1:56:B:ASN:C	8	2.17
(1,441)	1:122:B:GLU:N	1:122:B:GLU:CA	1:122:B:GLU:C	1:123:B:ALA:N	5	2.11
(1,343)	1:64:B:PHE:N	1:64:B:PHE:CA	1:64:B:PHE:C	1:65:B:ARG:N	8	2.09
(1,36)	1:31:A:GLN:N	1:31:A:GLN:CA	1:31:A:GLN:C	1:32:A:PRO:N	6	1.71
(1,289)	1:31:B:GLN:N	1:31:B:GLN:CA	1:31:B:GLN:C	1:32:B:PRO:N	8	1.54
(1,430)	1:116:B:ARG:C	1:117:B:ARG:N	1:117:B:ARG:CA	1:117:B:ARG:C	14	1.52
(1,330)	1:51:B:ASN:C	1:52:B:VAL:N	1:52:B:VAL:CA	1:52:B:VAL:C	4	1.52
(1,430)	1:116:B:ARG:C	1:117:B:ARG:N	1:117:B:ARG:CA	1:117:B:ARG:C	5	1.45
(1,90)	1:64:A:PHE:N	1:64:A:PHE:CA	1:64:A:PHE:C	1:65:A:ARG:N	15	1.4
(1,22)	1:24:A:ILE:N	1:24:A:ILE:CA	1:24:A:ILE:C	1:25:A:ILE:N	14	1.37
(1,190)	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	1:124:A:ARG:N	6	1.32
(1,430)	1:116:B:ARG:C	1:117:B:ARG:N	1:117:B:ARG:CA	1:117:B:ARG:C	3	1.31
(1,276)	1:24:B:ILE:C	1:25:B:ILE:N	1:25:B:ILE:CA	1:25:B:ILE:C	8	1.29
(1,22)	1:24:A:ILE:N	1:24:A:ILE:CA	1:24:A:ILE:C	1:25:A:ILE:N	2	1.28
(1,430)	1:116:B:ARG:C	1:117:B:ARG:N	1:117:B:ARG:CA	1:117:B:ARG:C	2	1.21
(1,387)	1:86:B:GLY:N	1:86:B:GLY:CA	1:86:B:GLY:C	1:87:B:THR:N	2	1.21
(1,265)	1:19:B:THR:N	1:19:B:THR:CA	1:19:B:THR:C	1:20:B:PHE:N	11	1.13
(1,338)	1:55:B:GLY:C	1:56:B:ASN:N	1:56:B:ASN:CA	1:56:B:ASN:C	9	1.12
(1,330)	1:51:B:ASN:C	1:52:B:VAL:N	1:52:B:VAL:CA	1:52:B:VAL:C	6	1.08
(1,430)	1:116:B:ARG:C	1:117:B:ARG:N	1:117:B:ARG:CA	1:117:B:ARG:C	15	1.06