



Full wwPDB NMR Structure Validation Report ⓘ

Mar 6, 2026 – 06:36 PM UTC

PDB ID : 6G5R / pdb_00006g5r
BMRB ID : 34255
Title : Structure of the UB2H domain of E.coli PBP1B in complex with LpoB
Authors : Simorre, J.P.; Maya Martinez, R.C.; Bougault, C.
Deposited on : 2018-03-29

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

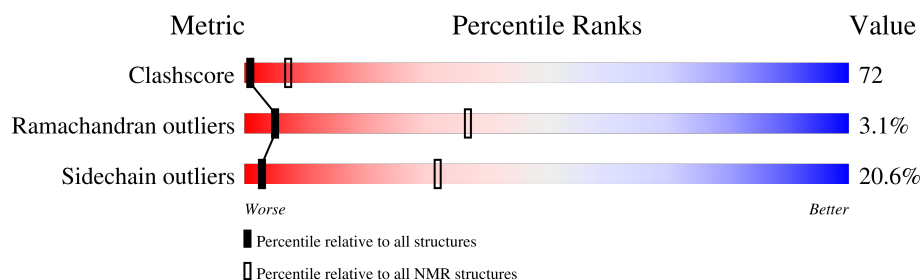
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 79%.

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	114	

2 Ensemble composition and analysis

This entry contains 20 models. Model 9 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:118-A:155, A:169-A:189 (59)	0.32	9

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 3 clusters and 2 single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1826 atoms, of which 904 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Penicillin-binding protein 1B.

Mol	Chain	Residues	Atoms						Trace
1	A	114	Total	C	H	N	O	S	0
			1826	568	904	178	168	8	

There are 21 discrepancies between the modelled and reference sequences:

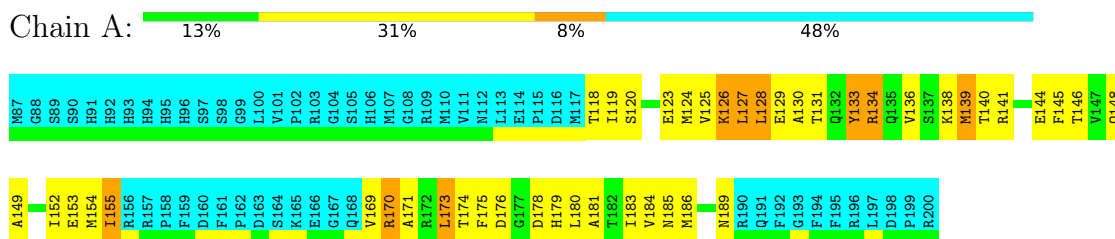
Chain	Residue	Modelled	Actual	Comment	Reference
A	87	MET	-	initiating methionine	UNP P02919
A	88	GLY	-	expression tag	UNP P02919
A	89	SER	-	expression tag	UNP P02919
A	90	SER	-	expression tag	UNP P02919
A	91	HIS	-	expression tag	UNP P02919
A	92	HIS	-	expression tag	UNP P02919
A	93	HIS	-	expression tag	UNP P02919
A	94	HIS	-	expression tag	UNP P02919
A	95	HIS	-	expression tag	UNP P02919
A	96	HIS	-	expression tag	UNP P02919
A	97	SER	-	expression tag	UNP P02919
A	98	SER	-	expression tag	UNP P02919
A	99	GLY	-	expression tag	UNP P02919
A	100	LEU	-	expression tag	UNP P02919
A	101	VAL	-	expression tag	UNP P02919
A	102	PRO	-	expression tag	UNP P02919
A	103	ARG	-	expression tag	UNP P02919
A	104	GLY	-	expression tag	UNP P02919
A	105	SER	-	expression tag	UNP P02919
A	106	HIS	-	expression tag	UNP P02919
A	107	MET	-	expression tag	UNP P02919

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: Penicillin-binding protein 1B

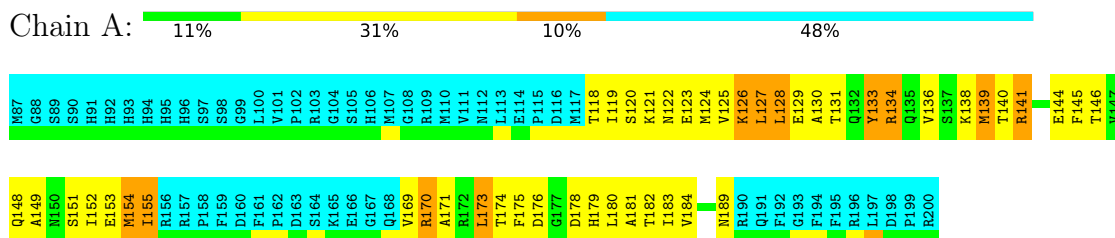


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

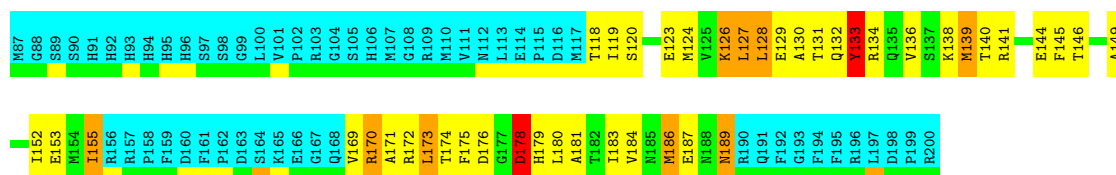
- Molecule 1: Penicillin-binding protein 1B



4.2.2 Score per residue for model 2

- Molecule 1: Penicillin-binding protein 1B

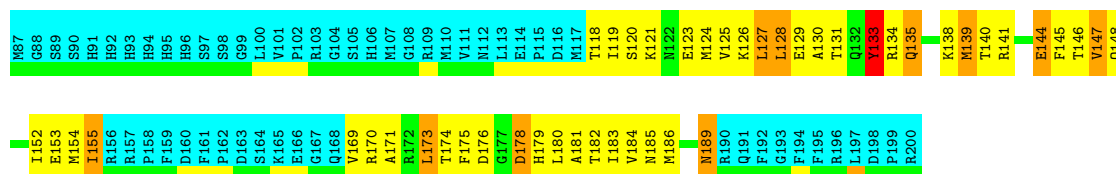




4.2.3 Score per residue for model 3

- Molecule 1: Penicillin-binding protein 1B

Chain A: 11% 31% 9% . 48%



4.2.4 Score per residue for model 4

- Molecule 1: Penicillin-binding protein 1B

Chain A: 14% 30% 8% . 48%



4.2.5 Score per residue for model 5

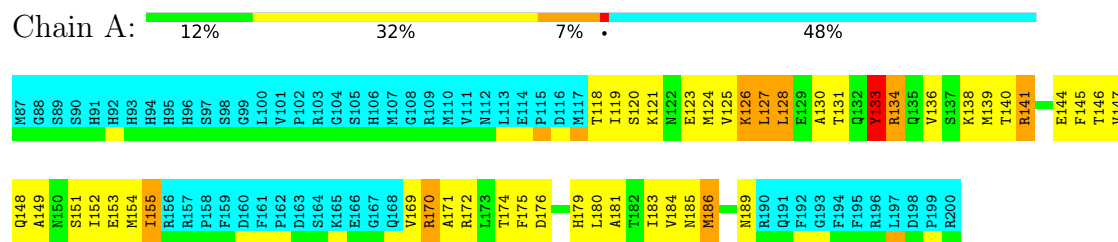
- Molecule 1: Penicillin-binding protein 1B

Chain A: 15% 28% 8% . 48%



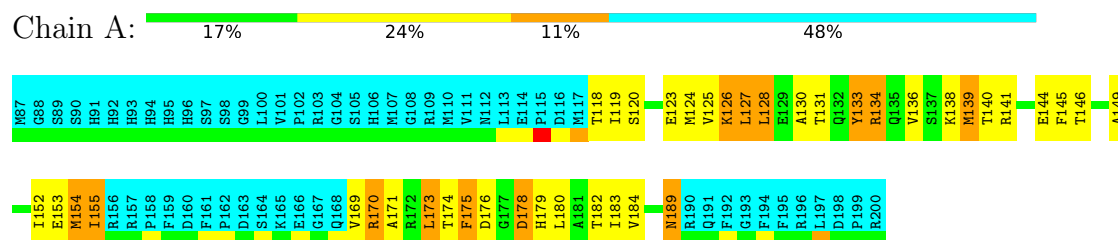
4.2.6 Score per residue for model 6

- Molecule 1: Penicillin-binding protein 1B



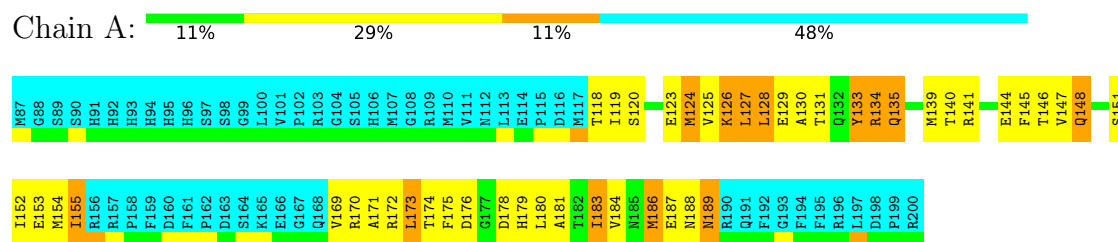
4.2.7 Score per residue for model 7

- Molecule 1: Penicillin-binding protein 1B



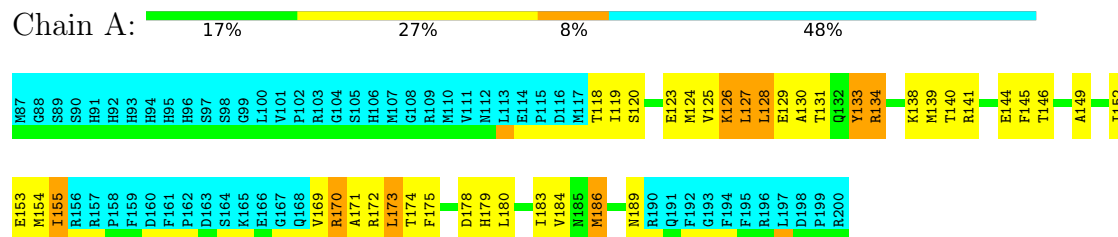
4.2.8 Score per residue for model 8

- Molecule 1: Penicillin-binding protein 1B



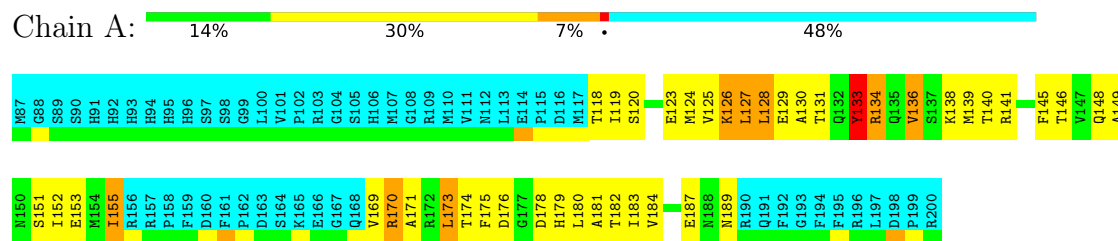
4.2.9 Score per residue for model 9 (medoid)

- Molecule 1: Penicillin-binding protein 1B



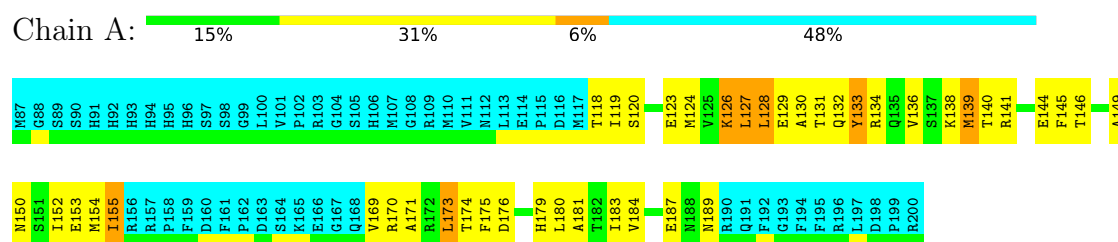
4.2.10 Score per residue for model 10

- Molecule 1: Penicillin-binding protein 1B



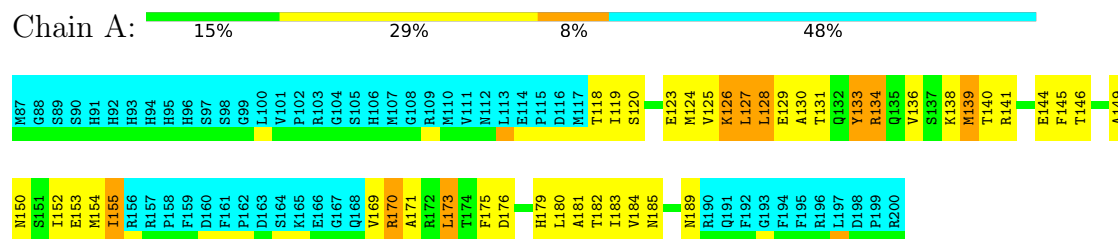
4.2.11 Score per residue for model 11

- Molecule 1: Penicillin-binding protein 1B



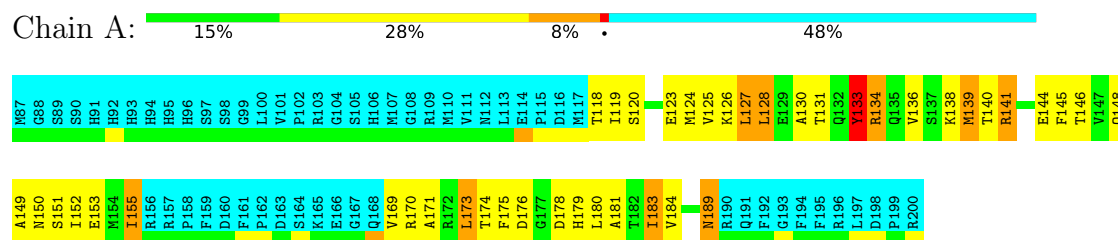
4.2.12 Score per residue for model 12

- Molecule 1: Penicillin-binding protein 1B



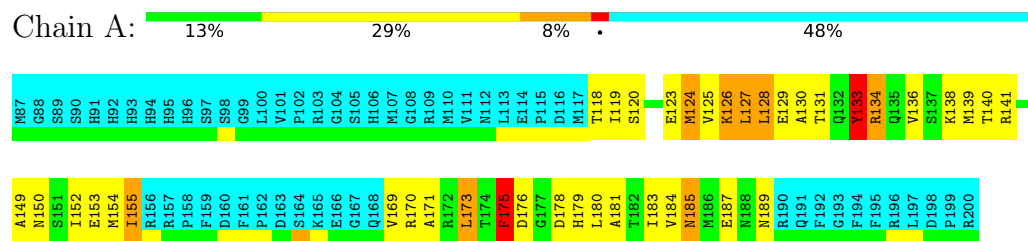
4.2.13 Score per residue for model 13

- Molecule 1: Penicillin-binding protein 1B



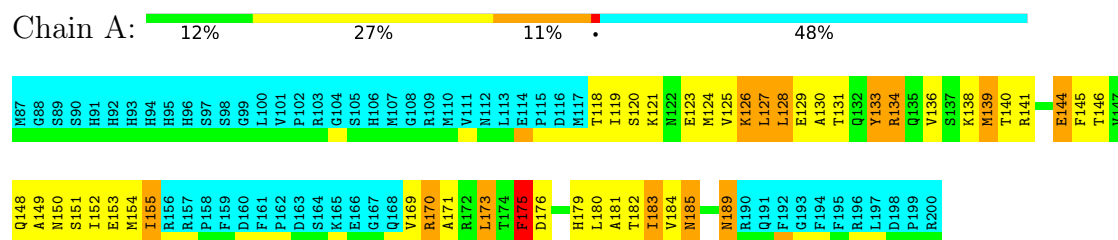
4.2.14 Score per residue for model 14

- Molecule 1: Penicillin-binding protein 1B



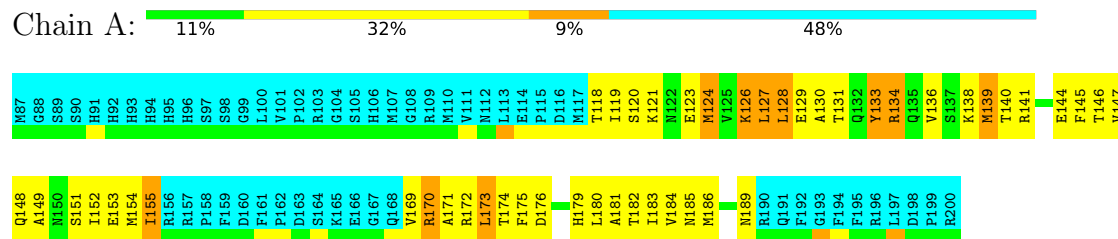
4.2.15 Score per residue for model 15

- Molecule 1: Penicillin-binding protein 1B



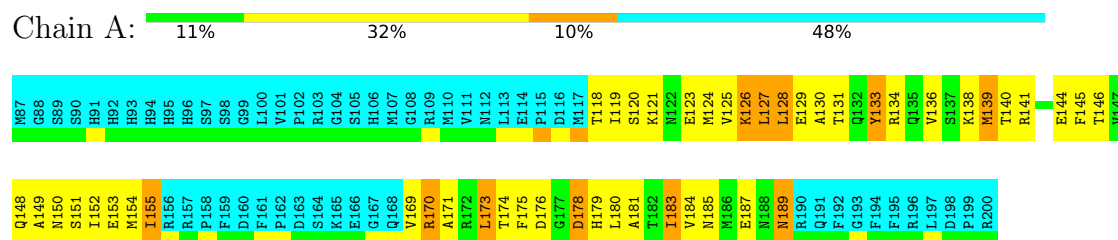
4.2.16 Score per residue for model 16

- Molecule 1: Penicillin-binding protein 1B



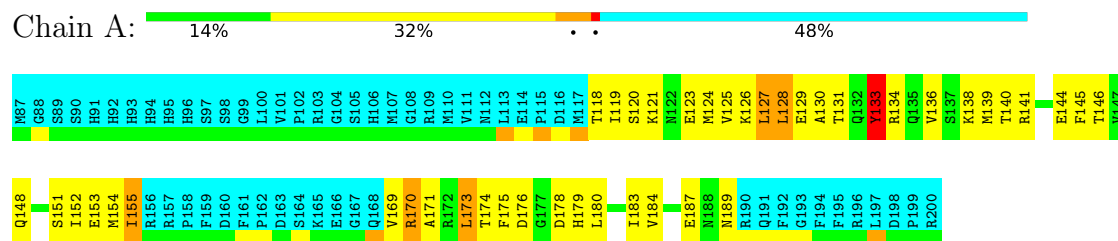
4.2.17 Score per residue for model 17

- Molecule 1: Penicillin-binding protein 1B



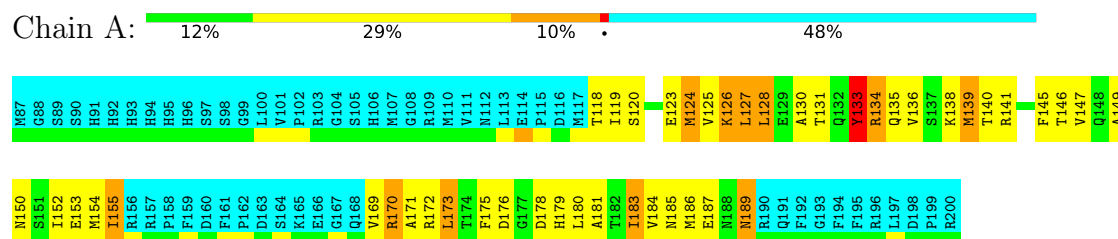
4.2.18 Score per residue for model 18

- Molecule 1: Penicillin-binding protein 1B



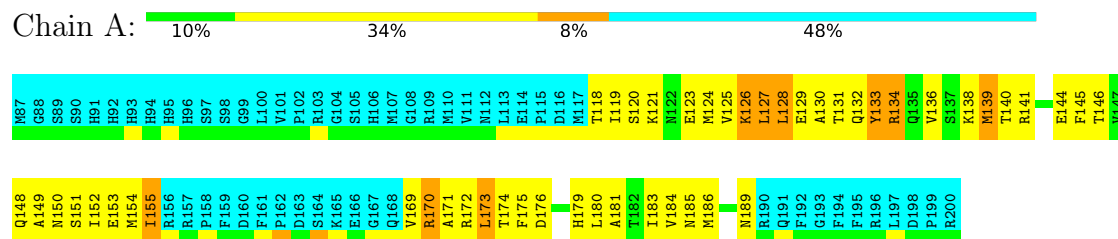
4.2.19 Score per residue for model 19

- Molecule 1: Penicillin-binding protein 1B



4.2.20 Score per residue for model 20

- Molecule 1: Penicillin-binding protein 1B



5 Refinement protocol and experimental data overview

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

Of the 750 calculated structures, 20 were deposited, based on the following criterion: *20*.

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

Software name	Classification	Version
ARIA	structure calculation	2.3
CNS	refinement	1.2
UNIO	structure calculation	2.0.2

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	934
Number of shifts mapped to atoms	934
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	79%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	1.19±0.04	1±1/474 (0.2± 0.2%)	1.07±0.02	0±0/639 (0.0± 0.0%)
All	All	1.19	18/9480 (0.2%)	1.07	1/12780 (0.0%)

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	133	TYR	CE2-CZ	-6.92	1.21	1.38	5	9
1	A	133	TYR	CE1-CZ	5.97	1.52	1.38	6	5
1	A	175	PHE	CE1-CZ	-5.74	1.21	1.38	14	2
1	A	175	PHE	CE2-CZ	5.41	1.54	1.38	14	2

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	178	ASP	N-CA-C	-5.01	106.42	112.88	2	1

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	469	477	476	68±7
All	All	9380	9540	9520	1354

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 72.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:139:MET:HB3	1:A:146:THR:HG23	0.93	1.41	1	19
1:A:123:GLU:O	1:A:127:LEU:HD12	0.85	1.71	8	20
1:A:119:ILE:HD11	1:A:175:PHE:CD1	0.85	2.06	15	20
1:A:145:PHE:HB3	1:A:153:GLU:O	0.82	1.75	12	20
1:A:128:LEU:HB3	1:A:133:TYR:CD2	0.80	2.12	19	20
1:A:128:LEU:HB3	1:A:133:TYR:CE2	0.77	2.14	16	20
1:A:172:ARG:HB2	1:A:186:MET:SD	0.74	2.22	19	7
1:A:140:THR:O	1:A:141:ARG:HD3	0.72	1.84	18	15
1:A:184:VAL:CG1	1:A:189:ASN:HA	0.72	2.14	18	20
1:A:118:THR:HG23	1:A:179:HIS:HB3	0.71	1.62	15	20
1:A:139:MET:HB3	1:A:146:THR:CG2	0.71	2.15	3	19
1:A:127:LEU:HA	1:A:130:ALA:HB3	0.71	1.60	11	20
1:A:123:GLU:HA	1:A:126:LYS:CD	0.70	2.17	7	20
1:A:120:SER:H	1:A:123:GLU:HB2	0.70	1.46	2	20
1:A:140:THR:O	1:A:141:ARG:HG3	0.70	1.87	6	5
1:A:133:TYR:HH	1:A:147:VAL:HG22	0.69	1.48	16	2
1:A:124:MET:O	1:A:128:LEU:HD13	0.68	1.88	20	20
1:A:180:LEU:HD21	1:A:183:ILE:HD11	0.68	1.65	16	20
1:A:139:MET:HE2	1:A:153:GLU:HG2	0.68	1.64	15	6
1:A:128:LEU:HD12	1:A:152:ILE:HD11	0.67	1.65	17	14
1:A:133:TYR:CD1	1:A:134:ARG:N	0.67	2.63	19	20
1:A:123:GLU:HA	1:A:126:LYS:HD2	0.66	1.65	1	20
1:A:139:MET:O	1:A:139:MET:HG3	0.66	1.90	15	7
1:A:139:MET:CB	1:A:146:THR:HG23	0.65	2.21	17	18
1:A:176:ASP:N	1:A:181:ALA:HB2	0.64	2.06	13	17
1:A:128:LEU:HB2	1:A:133:TYR:O	0.64	1.93	6	13
1:A:139:MET:CE	1:A:170:ARG:HB3	0.64	2.22	19	1
1:A:128:LEU:HA	1:A:131:THR:HG22	0.64	1.69	15	20
1:A:134:ARG:N	1:A:134:ARG:HD3	0.64	2.08	18	20
1:A:119:ILE:N	1:A:179:HIS:HA	0.62	2.09	15	20
1:A:123:GLU:CA	1:A:126:LYS:HD2	0.62	2.25	1	1
1:A:139:MET:SD	1:A:153:GLU:HG2	0.61	2.35	13	1
1:A:145:PHE:CE2	1:A:154:MET:HG3	0.61	2.31	3	1
1:A:124:MET:HG2	1:A:175:PHE:CE2	0.59	2.32	15	9
1:A:139:MET:CG	1:A:145:PHE:HA	0.59	2.27	10	1
1:A:123:GLU:HA	1:A:126:LYS:HD3	0.59	1.75	16	19
1:A:171:ALA:HA	1:A:184:VAL:O	0.59	1.98	15	20
1:A:128:LEU:CB	1:A:133:TYR:CD2	0.59	2.85	3	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:133:TYR:OH	1:A:147:VAL:CG2	0.59	2.50	14	2
1:A:139:MET:CE	1:A:170:ARG:HB2	0.58	2.28	11	6
1:A:133:TYR:OH	1:A:147:VAL:HG22	0.58	1.97	14	1
1:A:126:LYS:HG2	1:A:127:LEU:N	0.58	2.13	18	19
1:A:133:TYR:CD1	1:A:133:TYR:C	0.58	2.82	10	20
1:A:152:ILE:CG2	1:A:173:LEU:HD23	0.58	2.29	18	19
1:A:128:LEU:CD2	1:A:129:GLU:HG2	0.58	2.29	4	8
1:A:139:MET:HE1	1:A:154:MET:C	0.57	2.25	15	6
1:A:186:MET:HA	1:A:186:MET:HE2	0.57	1.76	9	5
1:A:128:LEU:HD22	1:A:128:LEU:N	0.56	2.14	8	20
1:A:141:ARG:O	1:A:155:ILE:HG13	0.56	1.99	8	2
1:A:128:LEU:HD12	1:A:152:ILE:CD1	0.56	2.30	2	11
1:A:120:SER:H	1:A:123:GLU:CB	0.56	2.14	3	18
1:A:148:GLN:HB3	1:A:151:SER:O	0.56	2.01	13	6
1:A:170:ARG:HD3	1:A:170:ARG:O	0.56	2.01	2	4
1:A:121:LYS:O	1:A:124:MET:HG3	0.55	2.02	4	10
1:A:133:TYR:CE1	1:A:145:PHE:HB2	0.55	2.37	8	15
1:A:169:VAL:HG13	1:A:187:GLU:HG3	0.55	1.79	10	9
1:A:119:ILE:HD11	1:A:175:PHE:CE1	0.55	2.37	16	9
1:A:155:ILE:HA	1:A:170:ARG:HA	0.54	1.79	12	20
1:A:173:LEU:HG	1:A:173:LEU:O	0.54	2.02	8	10
1:A:133:TYR:CD2	1:A:145:PHE:CD2	0.54	2.96	11	18
1:A:152:ILE:CG2	1:A:153:GLU:N	0.54	2.70	17	20
1:A:133:TYR:CD2	1:A:145:PHE:HD2	0.54	2.21	19	13
1:A:118:THR:HG23	1:A:179:HIS:CB	0.54	2.33	17	19
1:A:139:MET:HE2	1:A:145:PHE:HA	0.53	1.78	13	1
1:A:169:VAL:HG11	1:A:185:ASN:ND2	0.53	2.19	15	1
1:A:173:LEU:O	1:A:173:LEU:HG	0.53	2.04	13	6
1:A:124:MET:HE2	1:A:149:ALA:O	0.53	2.04	4	2
1:A:139:MET:HG3	1:A:145:PHE:HA	0.53	1.81	10	1
1:A:139:MET:CE	1:A:153:GLU:HG2	0.53	2.34	16	5
1:A:133:TYR:OH	1:A:152:ILE:HG23	0.52	2.05	20	10
1:A:123:GLU:O	1:A:126:LYS:HG2	0.52	2.04	8	16
1:A:127:LEU:O	1:A:131:THR:HG22	0.52	2.05	4	20
1:A:139:MET:SD	1:A:170:ARG:HB2	0.51	2.45	13	1
1:A:148:GLN:HB2	1:A:151:SER:O	0.51	2.06	18	3
1:A:128:LEU:CA	1:A:131:THR:HG22	0.51	2.35	2	12
1:A:145:PHE:CG	1:A:154:MET:HA	0.51	2.40	6	6
1:A:128:LEU:HD23	1:A:129:GLU:N	0.51	2.21	1	8
1:A:124:MET:HG2	1:A:175:PHE:CZ	0.51	2.41	2	3
1:A:128:LEU:CD1	1:A:152:ILE:HD11	0.50	2.35	17	13

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:140:THR:C	1:A:141:ARG:HG3	0.50	2.31	13	4
1:A:152:ILE:HG22	1:A:173:LEU:HD23	0.50	1.82	10	6
1:A:153:GLU:OE2	1:A:172:ARG:HD3	0.50	2.07	2	1
1:A:153:GLU:HG3	1:A:171:ALA:O	0.50	2.07	6	2
1:A:175:PHE:HD1	1:A:180:LEU:CD1	0.50	2.19	7	3
1:A:144:GLU:C	1:A:145:PHE:CD1	0.50	2.89	3	18
1:A:173:LEU:HD11	1:A:180:LEU:HD11	0.50	1.84	17	9
1:A:133:TYR:CZ	1:A:145:PHE:HB2	0.50	2.42	3	10
1:A:170:ARG:HD3	1:A:170:ARG:C	0.50	2.32	12	3
1:A:126:LYS:HG2	1:A:127:LEU:H	0.50	1.65	18	19
1:A:123:GLU:O	1:A:126:LYS:CD	0.50	2.60	1	1
1:A:139:MET:SD	1:A:153:GLU:HB3	0.50	2.47	10	2
1:A:118:THR:HA	1:A:179:HIS:HA	0.49	1.83	15	13
1:A:139:MET:HE3	1:A:170:ARG:HB3	0.49	1.83	19	1
1:A:133:TYR:HH	1:A:147:VAL:CG2	0.49	2.20	16	1
1:A:148:GLN:HG3	1:A:151:SER:O	0.49	2.07	8	1
1:A:128:LEU:HD23	1:A:129:GLU:HG2	0.49	1.85	3	8
1:A:128:LEU:HA	1:A:131:THR:CG2	0.48	2.38	2	13
1:A:124:MET:CG	1:A:152:ILE:HD12	0.48	2.38	9	3
1:A:139:MET:HE1	1:A:155:ILE:N	0.48	2.23	18	2
1:A:136:VAL:HG12	1:A:138:LYS:N	0.48	2.24	19	14
1:A:141:ARG:HB2	1:A:144:GLU:HB2	0.48	1.85	4	6
1:A:139:MET:HB2	1:A:146:THR:CG2	0.48	2.39	10	1
1:A:139:MET:O	1:A:139:MET:HG2	0.48	2.08	1	3
1:A:126:LYS:CG	1:A:127:LEU:N	0.47	2.77	18	18
1:A:134:ARG:N	1:A:134:ARG:CD	0.47	2.78	1	17
1:A:139:MET:SD	1:A:139:MET:N	0.47	2.87	2	4
1:A:120:SER:N	1:A:123:GLU:HB2	0.47	2.21	2	6
1:A:133:TYR:HH	1:A:152:ILE:HG23	0.47	1.68	15	3
1:A:188:ASN:C	1:A:189:ASN:HD22	0.47	2.17	8	1
1:A:119:ILE:HB	1:A:123:GLU:HB3	0.47	1.86	16	5
1:A:124:MET:HG2	1:A:175:PHE:CE1	0.47	2.44	2	2
1:A:139:MET:HE3	1:A:153:GLU:OE1	0.47	2.09	1	2
1:A:119:ILE:H	1:A:179:HIS:HA	0.47	1.69	7	16
1:A:139:MET:HB2	1:A:146:THR:OG1	0.47	2.10	10	1
1:A:139:MET:HG3	1:A:153:GLU:HG2	0.46	1.86	3	2
1:A:155:ILE:HG22	1:A:169:VAL:O	0.46	2.11	2	10
1:A:135:GLN:CB	1:A:147:VAL:HG12	0.46	2.40	3	3
1:A:169:VAL:HG12	1:A:170:ARG:N	0.46	2.25	2	13
1:A:169:VAL:CG1	1:A:170:ARG:N	0.46	2.78	15	9
1:A:173:LEU:CD1	1:A:180:LEU:HD11	0.46	2.40	1	8

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:122:ASN:O	1:A:126:LYS:HG3	0.46	2.10	1	1
1:A:133:TYR:CE1	1:A:145:PHE:C	0.46	2.94	2	7
1:A:124:MET:SD	1:A:152:ILE:HD11	0.45	2.51	6	2
1:A:136:VAL:HB	1:A:146:THR:CG2	0.45	2.42	10	1
1:A:138:LYS:HG3	1:A:138:LYS:O	0.45	2.11	10	10
1:A:139:MET:SD	1:A:145:PHE:HA	0.45	2.52	10	2
1:A:128:LEU:HD22	1:A:128:LEU:H	0.45	1.69	8	3
1:A:128:LEU:CD2	1:A:129:GLU:N	0.45	2.80	17	14
1:A:118:THR:CA	1:A:179:HIS:HA	0.45	2.42	15	3
1:A:119:ILE:O	1:A:178:ASP:C	0.44	2.60	8	9
1:A:119:ILE:CD1	1:A:124:MET:HB3	0.44	2.42	5	4
1:A:184:VAL:HG11	1:A:189:ASN:OD1	0.44	2.13	10	1
1:A:172:ARG:O	1:A:183:ILE:HA	0.44	2.13	6	1
1:A:139:MET:HE3	1:A:155:ILE:HD13	0.44	1.89	10	1
1:A:139:MET:HE3	1:A:170:ARG:HB2	0.44	1.90	20	2
1:A:175:PHE:CD1	1:A:180:LEU:CD1	0.43	3.01	17	6
1:A:133:TYR:CE1	1:A:145:PHE:O	0.43	2.72	5	2
1:A:141:ARG:H	1:A:155:ILE:HD12	0.43	1.73	4	2
1:A:133:TYR:OH	1:A:147:VAL:CB	0.43	2.66	6	1
1:A:124:MET:SD	1:A:175:PHE:CE2	0.43	3.11	16	1
1:A:128:LEU:CD2	1:A:129:GLU:H	0.43	2.27	17	4
1:A:180:LEU:CD2	1:A:183:ILE:HD11	0.43	2.43	3	3
1:A:139:MET:HB2	1:A:146:THR:HG23	0.43	1.91	10	1
1:A:124:MET:HA	1:A:127:LEU:HB2	0.43	1.91	2	3
1:A:126:LYS:HB3	1:A:126:LYS:NZ	0.43	2.28	2	2
1:A:126:LYS:O	1:A:130:ALA:N	0.43	2.52	4	8
1:A:139:MET:HE3	1:A:153:GLU:C	0.43	2.39	18	1
1:A:173:LEU:HD13	1:A:183:ILE:CG1	0.43	2.44	4	1
1:A:128:LEU:CD2	1:A:129:GLU:HG3	0.42	2.44	1	3
1:A:152:ILE:N	1:A:173:LEU:O	0.42	2.51	15	3
1:A:124:MET:HG2	1:A:152:ILE:HD12	0.42	1.92	2	1
1:A:147:VAL:HG23	1:A:152:ILE:HG12	0.42	1.91	3	2
1:A:139:MET:HG3	1:A:145:PHE:C	0.42	2.40	10	1
1:A:145:PHE:CE2	1:A:154:MET:HB2	0.41	2.50	7	1
1:A:138:LYS:O	1:A:138:LYS:HG3	0.41	2.16	12	3
1:A:118:THR:HA	1:A:179:HIS:CA	0.41	2.45	15	2
1:A:145:PHE:CZ	1:A:154:MET:HG2	0.41	2.50	19	1
1:A:133:TYR:C	1:A:134:ARG:HD3	0.41	2.40	18	1
1:A:140:THR:O	1:A:140:THR:HG23	0.41	2.15	12	1
1:A:171:ALA:CA	1:A:184:VAL:O	0.41	2.69	15	1
1:A:139:MET:HG3	1:A:145:PHE:CA	0.41	2.46	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:128:LEU:HB2	1:A:133:TYR:CD2	0.41	2.50	2	1
1:A:169:VAL:HG13	1:A:187:GLU:CD	0.41	2.41	8	1
1:A:174:THR:CG2	1:A:175:PHE:N	0.41	2.83	10	5
1:A:133:TYR:HH	1:A:147:VAL:HG23	0.41	1.76	6	1
1:A:126:LYS:NZ	1:A:126:LYS:HB3	0.41	2.31	4	1
1:A:173:LEU:HA	1:A:183:ILE:HG13	0.41	1.91	8	1
1:A:172:ARG:HB3	1:A:186:MET:SD	0.41	2.55	16	1
1:A:172:ARG:N	1:A:184:VAL:O	0.41	2.51	19	1
1:A:155:ILE:H	1:A:155:ILE:HG12	0.41	1.59	3	1
1:A:124:MET:HG3	1:A:175:PHE:CZ	0.41	2.51	19	1
1:A:145:PHE:CE2	1:A:154:MET:HG2	0.40	2.51	12	1
1:A:139:MET:HG2	1:A:153:GLU:OE1	0.40	2.16	16	1
1:A:124:MET:HG3	1:A:175:PHE:CE2	0.40	2.51	19	1
1:A:174:THR:HG22	1:A:175:PHE:N	0.40	2.32	2	1
1:A:118:THR:C	1:A:179:HIS:HA	0.40	2.41	15	1
1:A:128:LEU:O	1:A:131:THR:HG22	0.40	2.17	2	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	59/114 (52%)	50±1 (85±2%)	7±1 (12±2%)	2±1 (3±2%)	5	37
All	All	1180/2280 (52%)	1003 (85%)	141 (12%)	36 (3%)	5	37

All 4 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	149	ALA	15
1	A	185	ASN	10
1	A	189	ASN	8
1	A	132	GLN	3

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	53/102 (52%)	42±2 (79±3%)	11±2 (21±3%)	3	32
All	All	1060/2040 (52%)	842 (79%)	218 (21%)	3	32

All 24 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	127	LEU	20
1	A	128	LEU	20
1	A	133	TYR	20
1	A	155	ILE	20
1	A	173	LEU	19
1	A	126	LYS	17
1	A	125	VAL	16
1	A	134	ARG	15
1	A	170	ARG	15
1	A	139	MET	12
1	A	178	ASP	8
1	A	186	MET	6
1	A	183	ILE	5
1	A	124	MET	4
1	A	141	ARG	3
1	A	154	MET	3
1	A	175	PHE	3
1	A	136	VAL	2
1	A	135	GLN	2
1	A	144	GLU	2
1	A	148	GLN	2
1	A	145	PHE	2
1	A	147	VAL	1
1	A	189	ASN	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 79% for the well-defined parts and 58% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *UB2H-LpoBc_dep_2018.str*

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	934
Number of shifts mapped to atoms	934
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	84	-0.19 ± 0.12	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	79	-0.05 ± 0.23	None needed (< 0.5 ppm)
$^{13}\text{C}'$	71	-0.23 ± 0.17	None needed (< 0.5 ppm)
^{15}N	72	-0.60 ± 0.50	None needed (imprecise)

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 79%, i.e. 657 atoms were assigned a chemical shift out of a possible 827. 0 out of 9 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	266/295 (90%)	109/119 (92%)	106/118 (90%)	51/58 (88%)
Sidechain	367/495 (74%)	242/321 (75%)	125/151 (83%)	0/23 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	24/37 (65%)	12/18 (67%)	12/17 (71%)	0/2 (0%)
Overall	657/827 (79%)	363/458 (79%)	243/286 (85%)	51/83 (61%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 58%, i.e. 934 atoms were assigned a chemical shift out of a possible 1598. 0 out of 14 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	378/566 (67%)	151/230 (66%)	155/228 (68%)	72/108 (67%)
Sidechain	490/889 (55%)	315/573 (55%)	175/268 (65%)	0/48 (0%)
Aromatic	66/143 (46%)	33/71 (46%)	33/56 (59%)	0/16 (0%)
Overall	934/1598 (58%)	499/874 (57%)	363/552 (66%)	72/172 (42%)

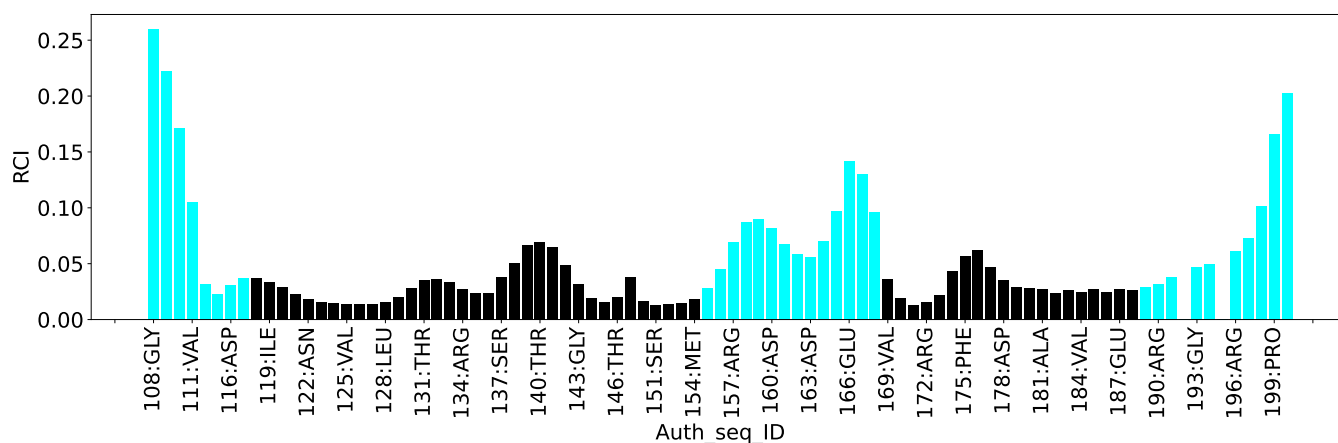
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	1553
Intra-residue ($ i-j =0$)	515
Sequential ($ i-j =1$)	408
Medium range ($ i-j >1$ and $ i-j <5$)	218
Long range ($ i-j \geq 5$)	412
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	154
Number of unmapped restraints	0
Number of restraints per residue	15.0
Number of long range restraints per residue ¹	3.6

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	106.0	0.2
0.2-0.5 (Medium)	221.1	0.5
>0.5 (Large)	175.2	4.07

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)	23.7	9.99
10.0-20.0 (Medium)	0.9	15.88
>20.0 (Large)	1.6	29.01

9 Distance violation analysis ⓘ

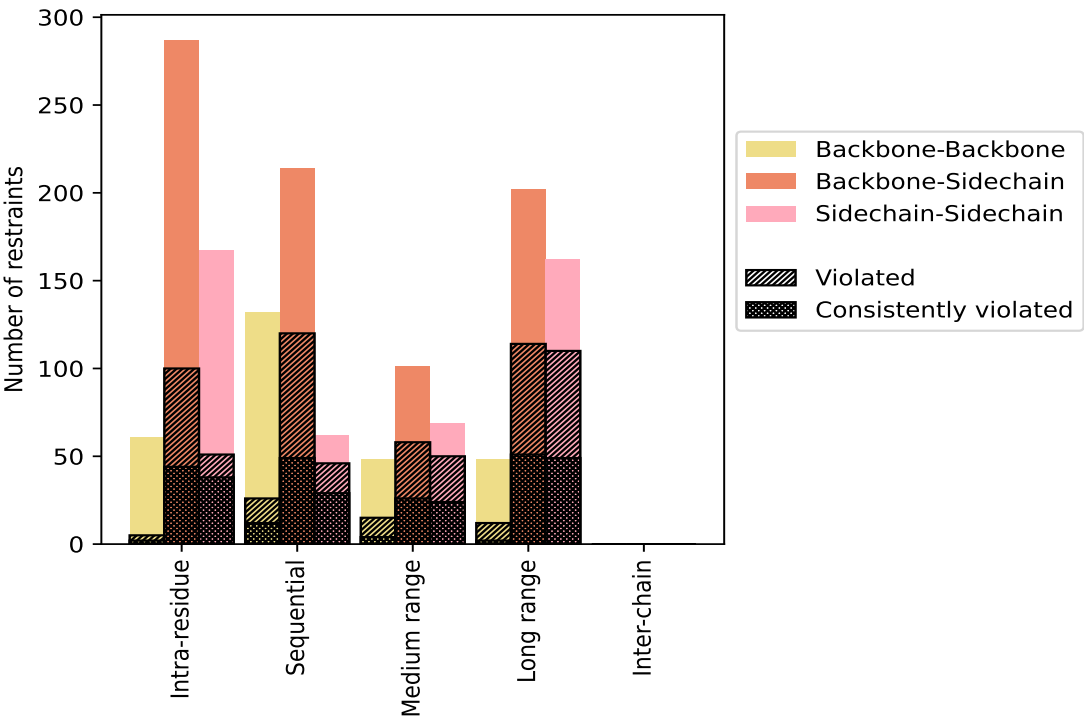
9.1 Summary of distance violations ⓘ

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue (i-j =0)	515	33.2	156	30.3	10.0	84	16.3	5.4
Backbone-Backbone	61	3.9	5	8.2	0.3	2	3.3	0.1
Backbone-Sidechain	287	18.5	100	34.8	6.4	44	15.3	2.8
Sidechain-Sidechain	167	10.8	51	30.5	3.3	38	22.8	2.4
Sequential (i-j =1)	408	26.3	192	47.1	12.4	90	22.1	5.8
Backbone-Backbone	132	8.5	26	19.7	1.7	12	9.1	0.8
Backbone-Sidechain	214	13.8	120	56.1	7.7	49	22.9	3.2
Sidechain-Sidechain	62	4.0	46	74.2	3.0	29	46.8	1.9
Medium range (i-j >1 & i-j <5)	218	14.0	123	56.4	7.9	54	24.8	3.5
Backbone-Backbone	48	3.1	15	31.2	1.0	4	8.3	0.3
Backbone-Sidechain	101	6.5	58	57.4	3.7	26	25.7	1.7
Sidechain-Sidechain	69	4.4	50	72.5	3.2	24	34.8	1.5
Long range (i-j ≥5)	412	26.5	236	57.3	15.2	102	24.8	6.6
Backbone-Backbone	48	3.1	12	25.0	0.8	2	4.2	0.1
Backbone-Sidechain	202	13.0	114	56.4	7.3	51	25.2	3.3
Sidechain-Sidechain	162	10.4	110	67.9	7.1	49	30.2	3.2
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1553	100.0	707	45.5	45.5	330	21.2	21.2
Backbone-Backbone	289	18.6	58	20.1	3.7	20	6.9	1.3
Backbone-Sidechain	804	51.8	392	48.8	25.2	170	21.1	10.9
Sidechain-Sidechain	460	29.6	257	55.9	16.5	140	30.4	9.0

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	115	141	88	165	0	509	0.5	3.06	0.42	0.35
2	118	140	83	169	0	510	0.48	2.54	0.37	0.36
3	123	137	77	165	0	502	0.48	2.55	0.38	0.37
4	122	137	91	168	0	518	0.49	2.48	0.39	0.36
5	126	146	87	166	0	525	0.47	2.82	0.37	0.34
6	119	145	89	165	0	518	0.57	4.07	0.56	0.38
7	108	135	87	170	0	500	0.53	2.43	0.43	0.38
8	115	141	85	156	0	497	0.51	2.66	0.41	0.36
9	118	135	83	163	0	499	0.51	3.61	0.42	0.38
10	116	136	89	166	0	507	0.5	2.42	0.4	0.36

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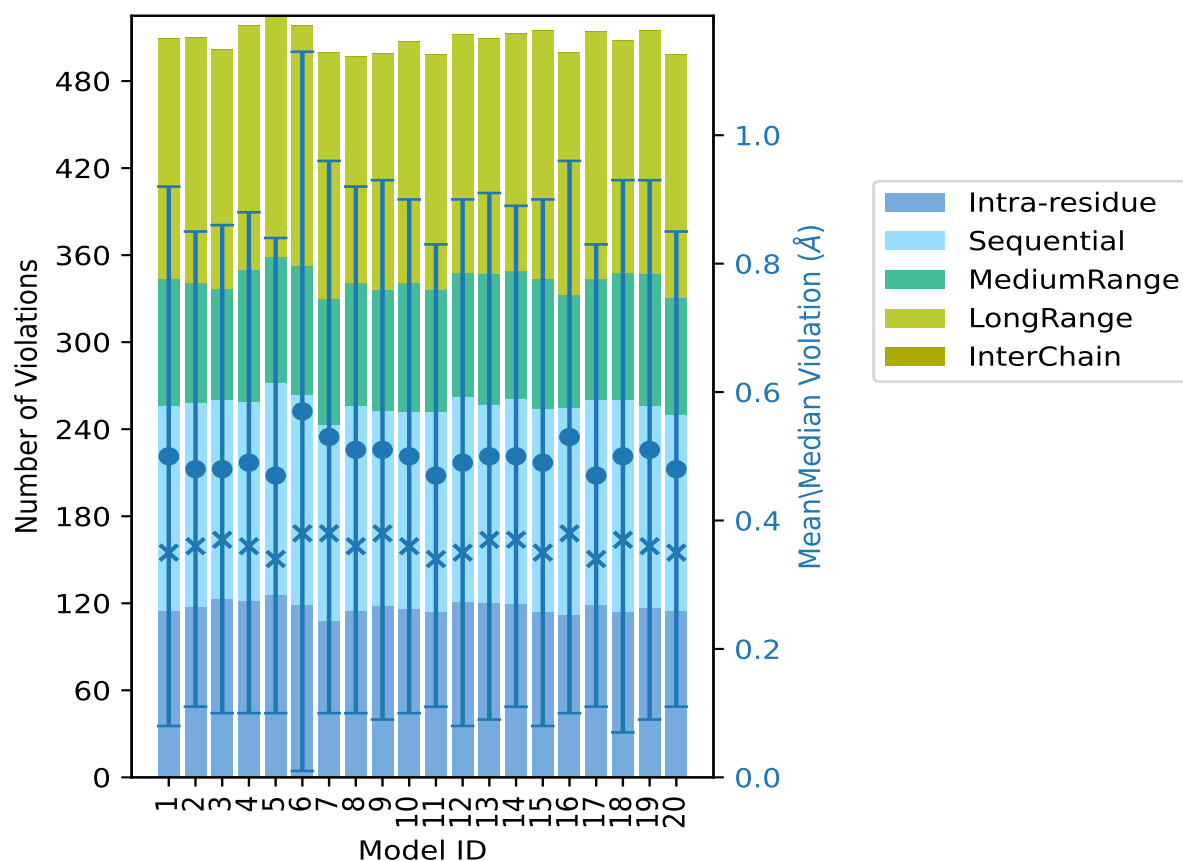
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	114	138	84	162	0	498	0.47	2.0	0.36	0.34
12	121	141	86	164	0	512	0.49	3.64	0.41	0.35
13	120	137	90	162	0	509	0.5	3.21	0.41	0.37
14	120	141	88	164	0	513	0.5	2.58	0.39	0.37
15	114	140	90	171	0	515	0.49	3.53	0.41	0.35
16	112	143	78	167	0	500	0.53	3.28	0.43	0.38
17	119	141	84	170	0	514	0.47	2.04	0.36	0.34
18	114	146	88	160	0	508	0.5	3.86	0.43	0.37
19	117	139	91	168	0	515	0.51	3.55	0.42	0.36
20	115	135	81	167	0	498	0.48	2.02	0.37	0.35

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

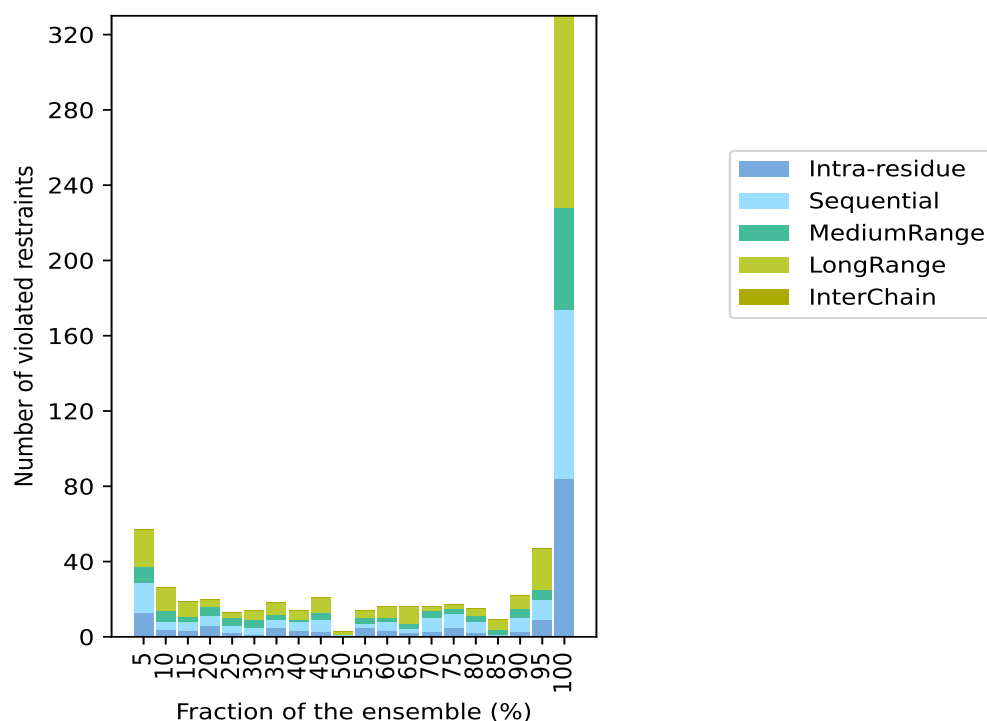
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 846(IR:359, SQ:216, MR:95, LR:176, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
13	16	8	20	0	57	1	5.0
4	4	6	12	0	26	2	10.0
3	5	3	8	0	19	3	15.0
6	5	5	4	0	20	4	20.0
2	4	4	3	0	13	5	25.0
1	4	4	5	0	14	6	30.0
5	4	3	6	0	18	7	35.0
3	5	1	5	0	14	8	40.0
3	6	4	8	0	21	9	45.0
0	1	0	2	0	3	10	50.0
5	2	3	4	0	14	11	55.0
3	5	2	6	0	16	12	60.0
2	2	3	9	0	16	13	65.0
3	7	4	2	0	16	14	70.0
5	7	3	2	0	17	15	75.0
2	6	3	4	0	15	16	80.0
0	1	3	5	0	9	17	85.0
3	7	5	7	0	22	18	90.0
9	11	5	22	0	47	19	95.0
84	90	54	102	0	330	20	100.0

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

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

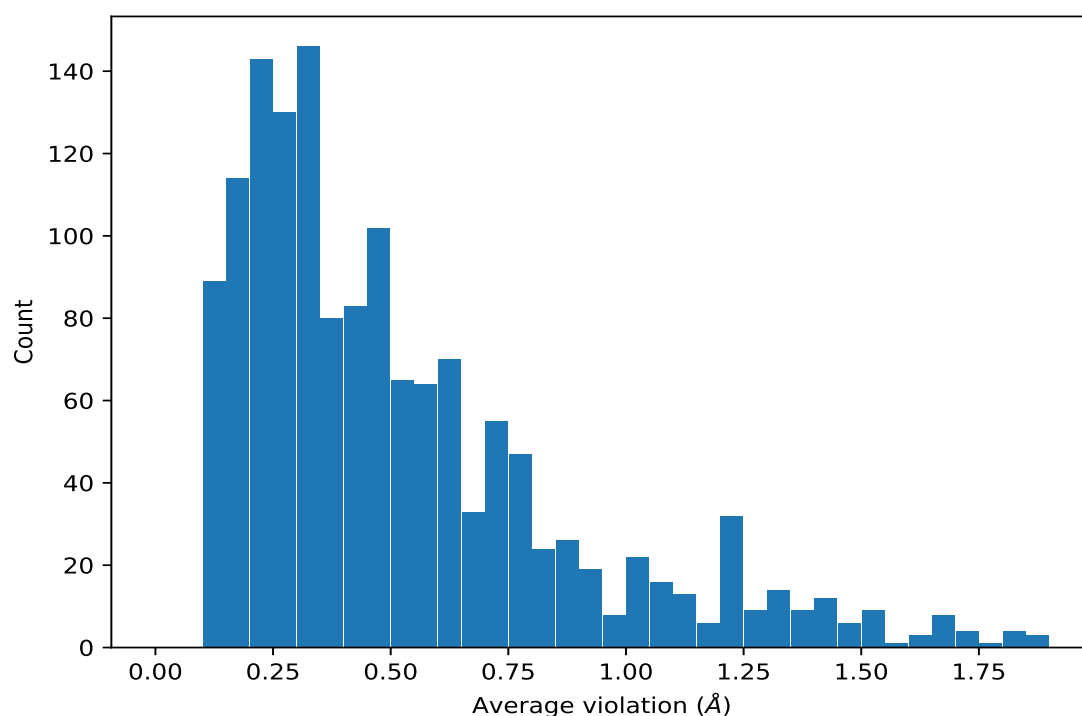
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG23	20	1.85	0.17	1.89
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG21	20	1.85	0.17	1.89
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG22	20	1.85	0.17	1.89
(1,754)	1:131:A:THR:HG23	1:127:A:LEU:HB2	20	1.83	0.07	1.84
(1,754)	1:131:A:THR:HG22	1:127:A:LEU:HB2	20	1.83	0.07	1.84
(1,754)	1:131:A:THR:HG21	1:127:A:LEU:HB2	20	1.83	0.07	1.84
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	20	1.81	0.02	1.81
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	20	1.79	0.03	1.79
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	20	1.74	0.37	1.8
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD13	20	1.6	0.38	1.78
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD12	20	1.6	0.38	1.78
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD11	20	1.6	0.38	1.78
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	20	1.57	0.31	1.64
(1,722)	1:127:A:LEU:HD13	1:123:A:GLU:HB2	20	1.54	0.27	1.56
(1,722)	1:127:A:LEU:HD12	1:123:A:GLU:HB2	20	1.54	0.27	1.56
(1,722)	1:127:A:LEU:HD11	1:123:A:GLU:HB2	20	1.54	0.27	1.56

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD22	20	1.45	0.15	1.47
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD21	20	1.45	0.15	1.47
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD23	20	1.45	0.15	1.47
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD12	20	1.45	0.15	1.47
(2,129)	1:153:A:GLU:HG2	1:173:A:LEU:HD22	20	1.45	0.15	1.47
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	20	1.44	0.13	1.46
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD22	20	1.43	1.39	0.45
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD23	20	1.43	1.39	0.45
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD21	20	1.43	1.39	0.45
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD12	20	1.42	0.05	1.44
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD11	20	1.42	0.05	1.44
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD13	20	1.42	0.05	1.44
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD22	20	1.4	0.09	1.43
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD23	20	1.4	0.09	1.43
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD21	20	1.4	0.09	1.43
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	20	1.4	0.12	1.37
(1,855)	1:130:A:ALA:HB1	1:129:A:GLU:HB3	20	1.36	0.03	1.36
(1,855)	1:130:A:ALA:HB2	1:129:A:GLU:HB3	20	1.36	0.03	1.36
(1,855)	1:130:A:ALA:HB3	1:129:A:GLU:HB3	20	1.36	0.03	1.36
(2,116)	1:122:A:ASN:HB2	1:123:A:GLU:HB3	20	1.35	0.11	1.36
(2,116)	1:122:A:ASN:HB3	1:123:A:GLU:HB3	20	1.35	0.11	1.36
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD12	20	1.35	0.26	1.42
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD11	20	1.35	0.26	1.42
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD13	20	1.35	0.26	1.42
(2,271)	1:146:A:THR:HG21	1:137:A:SER:HB2	20	1.33	0.08	1.29
(2,271)	1:146:A:THR:HG22	1:137:A:SER:HB2	20	1.33	0.08	1.29
(2,271)	1:146:A:THR:HG23	1:137:A:SER:HB2	20	1.33	0.08	1.29
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	20	1.32	0.23	1.38
(2,282)	1:155:A:ILE:HG22	1:169:A:VAL:HG11	20	1.3	0.06	1.28
(2,282)	1:155:A:ILE:HG21	1:169:A:VAL:HG11	20	1.3	0.06	1.28
(2,282)	1:155:A:ILE:HG22	1:169:A:VAL:HG13	20	1.3	0.06	1.28
(2,282)	1:155:A:ILE:HG23	1:169:A:VAL:HG12	20	1.3	0.06	1.28
(2,282)	1:155:A:ILE:HG21	1:169:A:VAL:HG12	20	1.3	0.06	1.28
(2,282)	1:155:A:ILE:HG23	1:169:A:VAL:HG13	20	1.3	0.06	1.28
(2,282)	1:155:A:ILE:HG22	1:169:A:VAL:HG12	20	1.3	0.06	1.28
(2,282)	1:155:A:ILE:HG23	1:169:A:VAL:HG11	20	1.3	0.06	1.28
(2,282)	1:155:A:ILE:HG21	1:169:A:VAL:HG13	20	1.3	0.06	1.28
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	20	1.28	0.04	1.28
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD11	20	1.27	0.55	1.64
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD13	20	1.27	0.55	1.64
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD12	20	1.27	0.55	1.64
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG11	20	1.25	0.13	1.27

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,168)	1:186:A:MET:HG3	1:169:A:VAL:HG13	20	1.25	0.13	1.27
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG12	20	1.25	0.13	1.27
(2,168)	1:186:A:MET:HG3	1:169:A:VAL:HG12	20	1.25	0.13	1.27
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG13	20	1.25	0.13	1.27
(1,759)	1:131:A:THR:HG23	1:128:A:LEU:HD12	20	1.23	0.08	1.25
(1,759)	1:131:A:THR:HG22	1:128:A:LEU:HD11	20	1.23	0.08	1.25
(1,759)	1:131:A:THR:HG21	1:128:A:LEU:HD13	20	1.23	0.08	1.25
(1,759)	1:131:A:THR:HG22	1:128:A:LEU:HD12	20	1.23	0.08	1.25
(1,759)	1:131:A:THR:HG23	1:128:A:LEU:HD11	20	1.23	0.08	1.25
(1,759)	1:131:A:THR:HG22	1:128:A:LEU:HD13	20	1.23	0.08	1.25
(1,759)	1:131:A:THR:HG21	1:128:A:LEU:HD12	20	1.23	0.08	1.25
(1,759)	1:131:A:THR:HG21	1:128:A:LEU:HD11	20	1.23	0.08	1.25
(1,759)	1:131:A:THR:HG23	1:128:A:LEU:HD13	20	1.23	0.08	1.25
(1,723)	1:127:A:LEU:HD13	1:120:A:SER:H	20	1.21	0.18	1.14
(1,723)	1:127:A:LEU:HD12	1:120:A:SER:H	20	1.21	0.18	1.14
(1,723)	1:127:A:LEU:HD11	1:120:A:SER:H	20	1.21	0.18	1.14
(1,913)	1:152:A:ILE:HD12	1:128:A:LEU:HD22	20	1.2	0.08	1.2
(1,913)	1:152:A:ILE:HD13	1:128:A:LEU:HD22	20	1.2	0.08	1.2
(1,913)	1:152:A:ILE:HD12	1:128:A:LEU:HD21	20	1.2	0.08	1.2
(1,913)	1:152:A:ILE:HD13	1:128:A:LEU:HD23	20	1.2	0.08	1.2
(1,913)	1:152:A:ILE:HD11	1:128:A:LEU:HD23	20	1.2	0.08	1.2
(1,913)	1:152:A:ILE:HD12	1:128:A:LEU:HD23	20	1.2	0.08	1.2
(1,913)	1:152:A:ILE:HD13	1:128:A:LEU:HD21	20	1.2	0.08	1.2
(1,874)	1:183:A:ILE:HG21	1:113:A:LEU:HD22	20	1.2	0.78	0.77
(1,874)	1:183:A:ILE:HG21	1:113:A:LEU:HD21	20	1.2	0.78	0.77
(1,874)	1:183:A:ILE:HG23	1:113:A:LEU:HD21	20	1.2	0.78	0.77
(1,874)	1:183:A:ILE:HG22	1:113:A:LEU:HD23	20	1.2	0.78	0.77
(1,874)	1:183:A:ILE:HG22	1:113:A:LEU:HD21	20	1.2	0.78	0.77
(1,874)	1:183:A:ILE:HG23	1:113:A:LEU:HD22	20	1.2	0.78	0.77
(1,874)	1:183:A:ILE:HG21	1:113:A:LEU:HD23	20	1.2	0.78	0.77
(1,874)	1:183:A:ILE:HG23	1:113:A:LEU:HD23	20	1.2	0.78	0.77
(1,874)	1:183:A:ILE:HG22	1:113:A:LEU:HD22	20	1.2	0.78	0.77
(1,946)	1:155:A:ILE:HD11	1:139:A:MET:HB3	20	1.18	0.25	1.2
(1,946)	1:155:A:ILE:HD12	1:139:A:MET:HB3	20	1.18	0.25	1.2
(1,946)	1:155:A:ILE:HD13	1:139:A:MET:HB3	20	1.18	0.25	1.2
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	20	1.16	0.02	1.16
(2,87)	1:126:A:LYS:HD2	1:126:A:LYS:HE3	20	1.15	0.2	1.25
(2,87)	1:138:A:LYS:HE3	1:138:A:LYS:HB3	20	1.15	0.2	1.25
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	20	1.13	0.04	1.14
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	20	1.13	0.18	1.16
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	20	1.12	0.03	1.12
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD13	20	1.11	0.17	1.03

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD12	20	1.11	0.17	1.03
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD11	20	1.11	0.17	1.03
(2,89)	1:126:A:LYS:HE2	1:127:A:LEU:HD11	20	1.11	0.17	1.03
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG12	20	1.09	0.03	1.08
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG13	20	1.09	0.03	1.08
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG11	20	1.09	0.03	1.08
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD12	20	1.09	0.03	1.09
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD11	20	1.09	0.03	1.09
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD13	20	1.09	0.03	1.09
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	20	1.07	0.11	1.1
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG21	20	1.07	0.05	1.06
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG23	20	1.07	0.05	1.06
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG22	20	1.07	0.05	1.06
(1,729)	1:125:A:VAL:HG11	1:129:A:GLU:HG2	20	1.05	0.39	1.32
(1,729)	1:125:A:VAL:HG12	1:129:A:GLU:HG2	20	1.05	0.39	1.32
(1,729)	1:125:A:VAL:HG13	1:129:A:GLU:HG2	20	1.05	0.39	1.32
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	20	1.05	0.25	1.12
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	20	1.04	0.36	1.21
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD12	20	1.04	0.02	1.04
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD11	20	1.04	0.02	1.04
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD13	20	1.04	0.02	1.04
(2,279)	1:125:A:VAL:HG23	1:124:A:MET:HA	20	1.04	0.03	1.04
(2,279)	1:125:A:VAL:HG22	1:124:A:MET:HA	20	1.04	0.03	1.04
(2,279)	1:125:A:VAL:HG21	1:124:A:MET:HA	20	1.04	0.03	1.04
(2,120)	1:153:A:GLU:HG2	1:152:A:ILE:HG22	20	1.03	0.12	1.07
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG22	20	1.03	0.12	1.07
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG23	20	1.03	0.12	1.07
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG21	20	1.03	0.12	1.07
(2,120)	1:153:A:GLU:HG2	1:152:A:ILE:HG23	20	1.03	0.12	1.07
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	20	1.02	0.67	1.53
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	20	0.97	0.02	0.96
(1,941)	1:155:A:ILE:HD11	1:154:A:MET:HA	20	0.97	0.11	0.99
(1,941)	1:155:A:ILE:HD12	1:154:A:MET:HA	20	0.97	0.11	0.99
(1,941)	1:155:A:ILE:HD13	1:154:A:MET:HA	20	0.97	0.11	0.99
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD23	20	0.97	0.01	0.97
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD22	20	0.97	0.01	0.97
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD21	20	0.97	0.01	0.97
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	20	0.96	0.51	1.02
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	20	0.94	0.09	0.92
(1,939)	1:119:A:ILE:HD13	1:180:A:LEU:H	20	0.94	0.04	0.95
(1,939)	1:119:A:ILE:HD12	1:180:A:LEU:H	20	0.94	0.04	0.95
(1,939)	1:119:A:ILE:HD11	1:180:A:LEU:H	20	0.94	0.04	0.95

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,928)	1:119:A:ILE:HD13	1:119:A:ILE:H	20	0.93	0.03	0.92
(1,928)	1:119:A:ILE:HD12	1:119:A:ILE:H	20	0.93	0.03	0.92
(1,928)	1:119:A:ILE:HD11	1:119:A:ILE:H	20	0.93	0.03	0.92
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	20	0.93	0.06	0.94
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB3	20	0.92	0.49	0.81
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	20	0.92	0.49	0.81
(1,678)	1:173:A:LEU:HD13	1:183:A:ILE:HA	20	0.9	0.57	0.8
(1,678)	1:173:A:LEU:HD12	1:183:A:ILE:HA	20	0.9	0.57	0.8
(1,678)	1:173:A:LEU:HD11	1:183:A:ILE:HA	20	0.9	0.57	0.8
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	20	0.89	0.21	0.96
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	20	0.89	0.02	0.9
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	20	0.88	0.01	0.88
(1,761)	1:147:A:VAL:HG23	1:135:A:GLN:H	20	0.88	0.76	0.41
(1,761)	1:147:A:VAL:HG21	1:135:A:GLN:H	20	0.88	0.76	0.41
(1,761)	1:147:A:VAL:HG22	1:135:A:GLN:H	20	0.88	0.76	0.41
(1,823)	1:174:A:THR:HG21	1:180:A:LEU:HD13	20	0.88	0.03	0.88
(1,823)	1:174:A:THR:HG23	1:180:A:LEU:HD12	20	0.88	0.03	0.88
(1,823)	1:174:A:THR:HG22	1:180:A:LEU:HD12	20	0.88	0.03	0.88
(1,823)	1:174:A:THR:HG23	1:180:A:LEU:HD13	20	0.88	0.03	0.88
(1,823)	1:174:A:THR:HG22	1:180:A:LEU:HD11	20	0.88	0.03	0.88
(1,823)	1:174:A:THR:HG22	1:180:A:LEU:HD13	20	0.88	0.03	0.88
(1,823)	1:174:A:THR:HG21	1:180:A:LEU:HD11	20	0.88	0.03	0.88
(1,823)	1:174:A:THR:HG23	1:180:A:LEU:HD11	20	0.88	0.03	0.88
(2,151)	1:168:A:GLN:HG2	1:169:A:VAL:HG21	20	0.87	0.29	0.92
(2,151)	1:168:A:GLN:HG3	1:169:A:VAL:HG23	20	0.87	0.29	0.92
(2,151)	1:168:A:GLN:HG3	1:169:A:VAL:HG21	20	0.87	0.29	0.92
(2,151)	1:168:A:GLN:HG3	1:169:A:VAL:HG13	20	0.87	0.29	0.92
(2,151)	1:168:A:GLN:HG3	1:169:A:VAL:HG22	20	0.87	0.29	0.92
(2,151)	1:168:A:GLN:HG2	1:169:A:VAL:HG22	20	0.87	0.29	0.92
(2,151)	1:168:A:GLN:HG3	1:169:A:VAL:HG11	20	0.87	0.29	0.92
(2,151)	1:168:A:GLN:HG2	1:169:A:VAL:HG23	20	0.87	0.29	0.92
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	20	0.86	0.4	1.06
(1,858)	1:130:A:ALA:HB1	1:128:A:LEU:HD22	20	0.84	0.02	0.84
(1,858)	1:130:A:ALA:HB1	1:128:A:LEU:HD23	20	0.84	0.02	0.84
(1,858)	1:130:A:ALA:HB2	1:128:A:LEU:HD23	20	0.84	0.02	0.84
(1,858)	1:130:A:ALA:HB3	1:128:A:LEU:HD22	20	0.84	0.02	0.84
(1,858)	1:130:A:ALA:HB3	1:128:A:LEU:HD21	20	0.84	0.02	0.84
(1,858)	1:130:A:ALA:HB1	1:128:A:LEU:HD21	20	0.84	0.02	0.84
(1,858)	1:130:A:ALA:HB3	1:128:A:LEU:HD23	20	0.84	0.02	0.84
(1,858)	1:130:A:ALA:HB2	1:128:A:LEU:HD22	20	0.84	0.02	0.84
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG11	20	0.84	0.18	0.86
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG13	20	0.84	0.18	0.86

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG12	20	0.84	0.18	0.86
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD13	20	0.83	0.06	0.84
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD11	20	0.83	0.06	0.84
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD12	20	0.83	0.06	0.84
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG21	20	0.81	0.1	0.84
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG22	20	0.81	0.1	0.84
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG23	20	0.81	0.1	0.84
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG22	20	0.79	0.54	0.63
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG21	20	0.79	0.54	0.63
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG23	20	0.79	0.54	0.63
(2,256)	1:136:A:VAL:HG12	1:138:A:LYS:HG3	20	0.79	0.04	0.8
(2,256)	1:136:A:VAL:HG13	1:138:A:LYS:HG3	20	0.79	0.04	0.8
(2,256)	1:136:A:VAL:HG11	1:138:A:LYS:HG3	20	0.79	0.04	0.8
(2,272)	1:136:A:VAL:HG22	1:137:A:SER:HB2	20	0.79	0.21	0.73
(2,272)	1:136:A:VAL:HG23	1:137:A:SER:HB2	20	0.79	0.21	0.73
(2,272)	1:136:A:VAL:HG21	1:137:A:SER:HB2	20	0.79	0.21	0.73
(2,272)	1:136:A:VAL:HG21	1:137:A:SER:HB3	20	0.79	0.21	0.73
(2,263)	1:147:A:VAL:HG23	1:146:A:THR:H	20	0.78	0.39	0.56
(2,263)	1:147:A:VAL:HG22	1:146:A:THR:H	20	0.78	0.39	0.56
(2,263)	1:147:A:VAL:HG21	1:146:A:THR:H	20	0.78	0.39	0.56
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	20	0.77	0.1	0.8
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB1	20	0.77	0.16	0.74
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB2	20	0.77	0.16	0.74
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB3	20	0.77	0.16	0.74
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG21	20	0.77	0.21	0.86
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG11	20	0.77	0.21	0.86
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG22	20	0.77	0.21	0.86
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG23	20	0.77	0.21	0.86
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG12	20	0.77	0.21	0.86
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG13	20	0.77	0.21	0.86
(2,64)	1:170:A:ARG:HD3	1:186:A:MET:HG2	20	0.76	0.4	0.74
(2,64)	1:170:A:ARG:HD2	1:186:A:MET:HG2	20	0.76	0.4	0.74
(1,756)	1:131:A:THR:HG22	1:127:A:LEU:HA	20	0.75	0.05	0.74
(1,756)	1:131:A:THR:HG21	1:127:A:LEU:HA	20	0.75	0.05	0.74
(1,756)	1:131:A:THR:HG23	1:127:A:LEU:HA	20	0.75	0.05	0.74
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD12	20	0.75	0.15	0.73
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD11	20	0.75	0.15	0.73
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD13	20	0.75	0.15	0.73
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD22	20	0.75	0.15	0.73
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD21	20	0.75	0.15	0.73
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD23	20	0.75	0.15	0.73
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD13	20	0.75	0.05	0.75

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD11	20	0.75	0.05	0.75
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD12	20	0.75	0.05	0.75
(1,702)	1:128:A:LEU:HD13	1:134:A:ARG:HA	20	0.74	0.05	0.74
(1,702)	1:128:A:LEU:HD12	1:134:A:ARG:HA	20	0.74	0.05	0.74
(1,702)	1:128:A:LEU:HD11	1:134:A:ARG:HA	20	0.74	0.05	0.74
(2,62)	1:170:A:ARG:HD3	1:187:A:GLU:HG3	20	0.74	0.2	0.68
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	20	0.74	0.2	0.68
(2,101)	1:152:A:ILE:HG12	1:128:A:LEU:HB3	20	0.74	0.09	0.72
(2,101)	1:147:A:VAL:HB	1:128:A:LEU:HB3	20	0.74	0.09	0.72
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	20	0.73	0.41	1.06
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	20	0.73	0.22	0.69
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG22	20	0.72	0.15	0.68
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG23	20	0.72	0.15	0.68
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG21	20	0.72	0.15	0.68
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD22	20	0.71	0.6	0.56
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD21	20	0.71	0.6	0.56
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD23	20	0.71	0.6	0.56
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	20	0.71	0.82	0.24
(2,277)	1:128:A:LEU:HB3	1:147:A:VAL:HG21	20	0.7	0.08	0.72
(2,277)	1:174:A:THR:HG23	1:182:A:THR:HG23	20	0.7	0.08	0.72
(2,277)	1:128:A:LEU:HB3	1:147:A:VAL:HG22	20	0.7	0.08	0.72
(2,277)	1:174:A:THR:HG21	1:182:A:THR:HG22	20	0.7	0.08	0.72
(2,277)	1:174:A:THR:HG21	1:182:A:THR:HG21	20	0.7	0.08	0.72
(2,277)	1:128:A:LEU:HB3	1:147:A:VAL:HG23	20	0.7	0.08	0.72
(2,277)	1:174:A:THR:HG23	1:182:A:THR:HG21	20	0.7	0.08	0.72
(2,277)	1:174:A:THR:HG22	1:182:A:THR:HG22	20	0.7	0.08	0.72
(2,277)	1:174:A:THR:HG21	1:182:A:THR:HG23	20	0.7	0.08	0.72
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD13	20	0.7	0.75	0.45
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD12	20	0.7	0.75	0.45
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD11	20	0.7	0.75	0.45
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	20	0.7	0.24	0.7
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	20	0.7	0.07	0.7
(1,868)	1:155:A:ILE:HG21	1:171:A:ALA:H	20	0.7	0.04	0.7
(1,868)	1:155:A:ILE:HG23	1:171:A:ALA:H	20	0.7	0.04	0.7
(1,868)	1:155:A:ILE:HG22	1:171:A:ALA:H	20	0.7	0.04	0.7
(1,778)	1:146:A:THR:HG23	1:136:A:VAL:HG23	20	0.7	0.03	0.7
(1,778)	1:146:A:THR:HG21	1:136:A:VAL:HG23	20	0.7	0.03	0.7
(1,778)	1:146:A:THR:HG21	1:136:A:VAL:HG21	20	0.7	0.03	0.7
(1,778)	1:146:A:THR:HG22	1:136:A:VAL:HG22	20	0.7	0.03	0.7
(1,778)	1:146:A:THR:HG23	1:136:A:VAL:HG22	20	0.7	0.03	0.7
(1,778)	1:146:A:THR:HG23	1:136:A:VAL:HG21	20	0.7	0.03	0.7
(1,778)	1:146:A:THR:HG21	1:136:A:VAL:HG22	20	0.7	0.03	0.7

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,778)	1:146:A:THR:HG22	1:136:A:VAL:HG23	20	0.7	0.03	0.7
(1,778)	1:146:A:THR:HG22	1:136:A:VAL:HG21	20	0.7	0.03	0.7
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD13	20	0.7	0.03	0.71
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD11	20	0.7	0.03	0.71
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD12	20	0.7	0.03	0.71
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	20	0.69	0.01	0.69
(2,261)	1:171:A:ALA:HB1	1:186:A:MET:HG2	20	0.69	0.07	0.66
(2,261)	1:171:A:ALA:HB2	1:186:A:MET:HG2	20	0.69	0.07	0.66
(2,261)	1:171:A:ALA:HB3	1:186:A:MET:HG2	20	0.69	0.07	0.66
(2,261)	1:171:A:ALA:HB1	1:186:A:MET:HG3	20	0.69	0.07	0.66
(2,261)	1:171:A:ALA:HB2	1:186:A:MET:HG3	20	0.69	0.07	0.66
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD22	20	0.68	0.17	0.68
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD23	20	0.68	0.17	0.68
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD21	20	0.68	0.17	0.68
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD12	20	0.68	0.17	0.68
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD13	20	0.68	0.17	0.68
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD11	20	0.68	0.17	0.68
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD22	20	0.68	0.12	0.72
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD23	20	0.68	0.12	0.72
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD21	20	0.68	0.12	0.72
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG3	20	0.66	0.01	0.67
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG2	20	0.66	0.01	0.67
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD13	20	0.66	0.08	0.68
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD11	20	0.66	0.08	0.68
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD12	20	0.66	0.08	0.68
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG22	20	0.65	0.06	0.64
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG21	20	0.65	0.06	0.64
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG23	20	0.65	0.06	0.64
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG23	20	0.65	0.05	0.65
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG22	20	0.65	0.05	0.65
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG21	20	0.65	0.05	0.65
(1,816)	1:136:A:VAL:HG21	1:147:A:VAL:H	20	0.64	0.04	0.63
(1,816)	1:136:A:VAL:HG22	1:147:A:VAL:H	20	0.64	0.04	0.63
(1,816)	1:136:A:VAL:HG23	1:147:A:VAL:H	20	0.64	0.04	0.63
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG22	20	0.64	0.05	0.64
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG23	20	0.64	0.05	0.64
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG21	20	0.64	0.05	0.64
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	20	0.63	0.08	0.64
(1,937)	1:119:A:ILE:HD13	1:180:A:LEU:HD23	20	0.63	0.21	0.69
(1,937)	1:119:A:ILE:HD12	1:180:A:LEU:HD23	20	0.63	0.21	0.69
(1,937)	1:119:A:ILE:HD12	1:180:A:LEU:HD21	20	0.63	0.21	0.69
(1,937)	1:119:A:ILE:HD12	1:180:A:LEU:HD22	20	0.63	0.21	0.69

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,937)	1:119:A:ILE:HD13	1:180:A:LEU:HD22	20	0.63	0.21	0.69
(1,937)	1:119:A:ILE:HD11	1:180:A:LEU:HD22	20	0.63	0.21	0.69
(1,937)	1:119:A:ILE:HD11	1:180:A:LEU:HD23	20	0.63	0.21	0.69
(1,937)	1:119:A:ILE:HD13	1:180:A:LEU:HD21	20	0.63	0.21	0.69
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG13	20	0.63	0.06	0.64
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG12	20	0.63	0.06	0.64
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG11	20	0.63	0.06	0.64
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG2	20	0.62	0.08	0.64
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	20	0.62	0.08	0.64
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	20	0.62	0.12	0.64
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG12	20	0.61	0.08	0.62
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG13	20	0.61	0.08	0.62
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG11	20	0.61	0.08	0.62
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	20	0.61	0.16	0.66
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG21	20	0.61	0.1	0.61
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG22	20	0.61	0.1	0.61
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG23	20	0.61	0.1	0.61
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG23	20	0.61	0.05	0.6
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG21	20	0.61	0.05	0.6
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG22	20	0.61	0.05	0.6
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB3	20	0.6	0.06	0.61
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB2	20	0.6	0.06	0.61
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	20	0.59	0.06	0.62
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG11	20	0.59	0.13	0.58
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG13	20	0.59	0.13	0.58
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG12	20	0.59	0.13	0.58
(1,854)	1:130:A:ALA:HB3	1:128:A:LEU:HA	20	0.58	0.03	0.58
(1,854)	1:130:A:ALA:HB1	1:128:A:LEU:HA	20	0.58	0.03	0.58
(1,854)	1:130:A:ALA:HB2	1:128:A:LEU:HA	20	0.58	0.03	0.58
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB2	20	0.57	0.15	0.63
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB3	20	0.57	0.15	0.63
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB1	20	0.57	0.15	0.63
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	20	0.57	0.3	0.52
(1,773)	1:128:A:LEU:HD22	1:127:A:LEU:HB3	20	0.57	0.14	0.61
(1,773)	1:128:A:LEU:HD23	1:127:A:LEU:HB3	20	0.57	0.14	0.61
(1,773)	1:128:A:LEU:HD21	1:127:A:LEU:HB3	20	0.57	0.14	0.61
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD12	20	0.56	0.05	0.57
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD11	20	0.56	0.05	0.57
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD13	20	0.56	0.05	0.57
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	20	0.56	0.08	0.59
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	20	0.56	0.05	0.56
(2,187)	1:163:A:ASP:HB3	1:162:A:PRO:HB3	20	0.56	0.05	0.56

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	20	0.56	0.22	0.6
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	20	0.56	0.02	0.56
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD13	20	0.56	0.08	0.55
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD11	20	0.56	0.08	0.55
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD12	20	0.56	0.08	0.55
(2,114)	1:122:A:ASN:HB3	1:125:A:VAL:HG12	20	0.56	0.21	0.58
(2,114)	1:122:A:ASN:HB3	1:125:A:VAL:HG13	20	0.56	0.21	0.58
(2,114)	1:122:A:ASN:HB2	1:125:A:VAL:HG23	20	0.56	0.21	0.58
(2,114)	1:122:A:ASN:HB2	1:125:A:VAL:HG21	20	0.56	0.21	0.58
(2,114)	1:122:A:ASN:HB2	1:125:A:VAL:HG22	20	0.56	0.21	0.58
(2,114)	1:122:A:ASN:HB3	1:125:A:VAL:HG11	20	0.56	0.21	0.58
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD22	20	0.56	0.06	0.56
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD23	20	0.56	0.06	0.56
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD21	20	0.56	0.06	0.56
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG21	20	0.55	0.05	0.56
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG23	20	0.55	0.05	0.56
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG22	20	0.55	0.05	0.56
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD11	20	0.55	0.04	0.55
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD12	20	0.55	0.04	0.55
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD13	20	0.55	0.04	0.55
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	20	0.55	0.28	0.41
(1,846)	1:136:A:VAL:HG13	1:146:A:THR:H	20	0.55	0.14	0.48
(1,846)	1:136:A:VAL:HG11	1:146:A:THR:H	20	0.55	0.14	0.48
(1,846)	1:136:A:VAL:HG12	1:146:A:THR:H	20	0.55	0.14	0.48
(1,852)	1:130:A:ALA:HB1	1:127:A:LEU:H	20	0.54	0.03	0.56
(1,852)	1:130:A:ALA:HB2	1:127:A:LEU:H	20	0.54	0.03	0.56
(1,852)	1:130:A:ALA:HB3	1:127:A:LEU:H	20	0.54	0.03	0.56
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	20	0.54	0.06	0.53
(2,155)	1:165:A:LYS:HB2	1:165:A:LYS:HE3	20	0.54	0.02	0.55
(2,155)	1:165:A:LYS:HB3	1:165:A:LYS:HE2	20	0.54	0.02	0.55
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG23	20	0.54	0.13	0.5
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG22	20	0.54	0.13	0.5
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG21	20	0.54	0.13	0.5
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD12	20	0.54	0.06	0.55
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD13	20	0.54	0.06	0.55
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD11	20	0.54	0.06	0.55
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	20	0.53	0.1	0.56
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	20	0.52	0.06	0.52
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG22	20	0.52	0.14	0.52
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG21	20	0.52	0.14	0.52
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG23	20	0.52	0.14	0.52
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD12	20	0.52	0.07	0.5

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD13	20	0.52	0.07	0.5
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD11	20	0.52	0.07	0.5
(2,264)	1:147:A:VAL:HG21	1:152:A:ILE:HG21	20	0.52	0.1	0.56
(2,264)	1:147:A:VAL:HG22	1:152:A:ILE:HG22	20	0.52	0.1	0.56
(2,264)	1:147:A:VAL:HG21	1:152:A:ILE:HG23	20	0.52	0.1	0.56
(2,264)	1:147:A:VAL:HG22	1:152:A:ILE:HG23	20	0.52	0.1	0.56
(2,264)	1:147:A:VAL:HG23	1:152:A:ILE:HG21	20	0.52	0.1	0.56
(2,264)	1:147:A:VAL:HG21	1:152:A:ILE:HG22	20	0.52	0.1	0.56
(2,264)	1:147:A:VAL:HG23	1:152:A:ILE:HG23	20	0.52	0.1	0.56
(2,264)	1:147:A:VAL:HG23	1:152:A:ILE:HG22	20	0.52	0.1	0.56
(2,264)	1:147:A:VAL:HG22	1:152:A:ILE:HG21	20	0.52	0.1	0.56
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD23	20	0.52	0.02	0.52
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD21	20	0.52	0.02	0.52
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD22	20	0.52	0.02	0.52
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	20	0.51	0.03	0.52
(1,929)	1:119:A:ILE:HD11	1:123:A:GLU:H	20	0.51	0.06	0.52
(1,929)	1:119:A:ILE:HD13	1:123:A:GLU:H	20	0.51	0.06	0.52
(1,929)	1:119:A:ILE:HD12	1:123:A:GLU:H	20	0.51	0.06	0.52
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB1	20	0.51	0.1	0.5
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB2	20	0.51	0.1	0.5
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB3	20	0.51	0.1	0.5
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG21	20	0.5	0.02	0.5
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG23	20	0.5	0.02	0.5
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG22	20	0.5	0.02	0.5
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	20	0.5	0.02	0.5
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	20	0.5	0.02	0.5
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	20	0.49	0.04	0.49
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	20	0.49	0.06	0.49
(1,848)	1:155:A:ILE:HG23	1:145:A:PHE:HD1	20	0.48	0.12	0.48
(1,848)	1:155:A:ILE:HG22	1:145:A:PHE:HD1	20	0.48	0.12	0.48
(1,848)	1:155:A:ILE:HG21	1:145:A:PHE:HD1	20	0.48	0.12	0.48
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG23	20	0.48	0.11	0.47
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG21	20	0.48	0.11	0.47
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG22	20	0.48	0.11	0.47
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	20	0.48	0.04	0.48
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG2	20	0.48	0.04	0.48
(2,223)	1:173:A:LEU:HD22	1:152:A:ILE:H	20	0.48	0.08	0.52
(2,223)	1:173:A:LEU:HD21	1:152:A:ILE:H	20	0.48	0.08	0.52
(2,223)	1:173:A:LEU:HD23	1:152:A:ILE:H	20	0.48	0.08	0.52
(2,223)	1:152:A:ILE:H	1:173:A:LEU:HD11	20	0.48	0.08	0.52
(1,890)	1:119:A:ILE:HG21	1:175:A:PHE:HD1	20	0.48	0.06	0.48
(1,890)	1:119:A:ILE:HG22	1:175:A:PHE:HD1	20	0.48	0.06	0.48

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,890)	1:119:A:ILE:HG23	1:175:A:PHE:HD1	20	0.48	0.06	0.48
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	20	0.48	0.04	0.48
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG22	20	0.48	0.05	0.48
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG21	20	0.48	0.05	0.48
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG23	20	0.48	0.05	0.48
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG22	20	0.48	0.08	0.48
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG23	20	0.48	0.08	0.48
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG21	20	0.48	0.08	0.48
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG23	20	0.47	0.04	0.46
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG22	20	0.47	0.04	0.46
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG21	20	0.47	0.04	0.46
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD22	20	0.47	0.44	0.39
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD21	20	0.47	0.44	0.39
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD23	20	0.47	0.44	0.39
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG21	20	0.47	0.06	0.47
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG22	20	0.47	0.06	0.47
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG23	20	0.47	0.06	0.47
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	20	0.47	0.02	0.46
(2,205)	1:165:A:LYS:HE2	1:165:A:LYS:HD3	20	0.47	0.02	0.46
(1,6)	1:133:A:TYR:HD1	1:128:A:LEU:HG	20	0.47	0.15	0.52
(1,6)	1:133:A:TYR:HD2	1:128:A:LEU:HG	20	0.47	0.15	0.52
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG3	20	0.47	0.01	0.47
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	20	0.47	0.01	0.47
(1,826)	1:184:A:VAL:HG11	1:171:A:ALA:HA	20	0.46	0.03	0.46
(1,826)	1:184:A:VAL:HG13	1:171:A:ALA:HA	20	0.46	0.03	0.46
(1,826)	1:184:A:VAL:HG12	1:171:A:ALA:HA	20	0.46	0.03	0.46
(1,856)	1:130:A:ALA:HB1	1:126:A:LYS:HB2	20	0.46	0.04	0.46
(1,856)	1:130:A:ALA:HB2	1:126:A:LYS:HB2	20	0.46	0.04	0.46
(1,856)	1:130:A:ALA:HB3	1:126:A:LYS:HB2	20	0.46	0.04	0.46
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	20	0.46	0.06	0.45
(1,897)	1:119:A:ILE:HG23	1:127:A:LEU:HD11	20	0.46	0.12	0.42
(1,897)	1:119:A:ILE:HG21	1:127:A:LEU:HD11	20	0.46	0.12	0.42
(1,897)	1:119:A:ILE:HG23	1:127:A:LEU:HD13	20	0.46	0.12	0.42
(1,897)	1:119:A:ILE:HG21	1:127:A:LEU:HD12	20	0.46	0.12	0.42
(1,897)	1:119:A:ILE:HG21	1:127:A:LEU:HD13	20	0.46	0.12	0.42
(1,897)	1:119:A:ILE:HG23	1:127:A:LEU:HD12	20	0.46	0.12	0.42
(1,897)	1:119:A:ILE:HG22	1:127:A:LEU:HD13	20	0.46	0.12	0.42
(1,897)	1:119:A:ILE:HG22	1:127:A:LEU:HD11	20	0.46	0.12	0.42
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG11	20	0.45	0.04	0.45
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG13	20	0.45	0.04	0.45
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG12	20	0.45	0.04	0.45
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	20	0.45	0.05	0.46

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	20	0.45	0.05	0.45
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	20	0.45	0.01	0.45
(2,61)	1:170:A:ARG:HD3	1:169:A:VAL:HG11	20	0.45	0.19	0.37
(2,61)	1:170:A:ARG:HD2	1:169:A:VAL:HG13	20	0.45	0.19	0.37
(2,61)	1:170:A:ARG:HD3	1:169:A:VAL:HG12	20	0.45	0.19	0.37
(2,61)	1:170:A:ARG:HD3	1:169:A:VAL:HG13	20	0.45	0.19	0.37
(2,61)	1:170:A:ARG:HD2	1:169:A:VAL:HG12	20	0.45	0.19	0.37
(2,61)	1:170:A:ARG:HD2	1:169:A:VAL:HG11	20	0.45	0.19	0.37
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	20	0.44	0.25	0.4
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD13	20	0.44	0.03	0.44
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD12	20	0.44	0.03	0.44
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD11	20	0.44	0.03	0.44
(2,112)	1:122:A:ASN:HB2	1:124:A:MET:H	20	0.44	0.06	0.43
(2,112)	1:122:A:ASN:HB3	1:124:A:MET:H	20	0.44	0.06	0.43
(1,808)	1:136:A:VAL:HG23	1:140:A:THR:H	20	0.43	0.03	0.44
(1,808)	1:136:A:VAL:HG21	1:140:A:THR:H	20	0.43	0.03	0.44
(1,808)	1:136:A:VAL:HG22	1:140:A:THR:H	20	0.43	0.03	0.44
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	20	0.43	0.17	0.39
(2,247)	1:164:A:SER:HB2	1:165:A:LYS:HG2	20	0.43	0.17	0.39
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG12	20	0.42	0.08	0.4
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG13	20	0.42	0.08	0.4
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG11	20	0.42	0.08	0.4
(2,225)	1:173:A:LEU:HD22	1:173:A:LEU:H	20	0.42	0.1	0.41
(2,225)	1:173:A:LEU:HD21	1:173:A:LEU:H	20	0.42	0.1	0.41
(2,225)	1:173:A:LEU:HD23	1:173:A:LEU:H	20	0.42	0.1	0.41
(2,225)	1:173:A:LEU:H	1:173:A:LEU:HD12	20	0.42	0.1	0.41
(1,870)	1:183:A:ILE:HG22	1:172:A:ARG:H	20	0.42	0.04	0.42
(1,870)	1:183:A:ILE:HG21	1:172:A:ARG:H	20	0.42	0.04	0.42
(1,870)	1:183:A:ILE:HG23	1:172:A:ARG:H	20	0.42	0.04	0.42
(1,912)	1:152:A:ILE:HD11	1:173:A:LEU:HD21	20	0.42	0.44	0.35
(1,912)	1:152:A:ILE:HD12	1:173:A:LEU:HD21	20	0.42	0.44	0.35
(1,912)	1:152:A:ILE:HD11	1:173:A:LEU:HD23	20	0.42	0.44	0.35
(1,912)	1:152:A:ILE:HD12	1:173:A:LEU:HD22	20	0.42	0.44	0.35
(1,912)	1:152:A:ILE:HD13	1:173:A:LEU:HD22	20	0.42	0.44	0.35
(1,912)	1:152:A:ILE:HD13	1:173:A:LEU:HD21	20	0.42	0.44	0.35
(1,912)	1:152:A:ILE:HD11	1:173:A:LEU:HD22	20	0.42	0.44	0.35
(1,912)	1:152:A:ILE:HD12	1:173:A:LEU:HD23	20	0.42	0.44	0.35
(1,784)	1:184:A:VAL:HG21	1:184:A:VAL:HG12	20	0.42	0.06	0.41
(1,784)	1:184:A:VAL:HG21	1:184:A:VAL:HG13	20	0.42	0.06	0.41
(1,784)	1:184:A:VAL:HG23	1:184:A:VAL:HG11	20	0.42	0.06	0.41
(1,784)	1:184:A:VAL:HG23	1:184:A:VAL:HG12	20	0.42	0.06	0.41
(1,784)	1:184:A:VAL:HG22	1:184:A:VAL:HG12	20	0.42	0.06	0.41

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,784)	1:184:A:VAL:HG23	1:184:A:VAL:HG13	20	0.42	0.06	0.41
(1,784)	1:184:A:VAL:HG22	1:184:A:VAL:HG11	20	0.42	0.06	0.41
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG23	20	0.42	0.03	0.42
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG22	20	0.42	0.03	0.42
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG21	20	0.42	0.03	0.42
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG22	20	0.42	0.1	0.39
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG23	20	0.42	0.1	0.39
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG21	20	0.42	0.1	0.39
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	20	0.42	0.06	0.41
(1,834)	1:181:A:ALA:HB3	1:175:A:PHE:HB3	20	0.41	0.03	0.4
(1,834)	1:181:A:ALA:HB2	1:175:A:PHE:HB3	20	0.41	0.03	0.4
(1,834)	1:181:A:ALA:HB1	1:175:A:PHE:HB3	20	0.41	0.03	0.4
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	20	0.4	0.1	0.38
(1,914)	1:183:A:ILE:HD12	1:182:A:THR:H	20	0.4	0.09	0.38
(1,914)	1:183:A:ILE:HD11	1:182:A:THR:H	20	0.4	0.09	0.38
(1,914)	1:183:A:ILE:HD13	1:182:A:THR:H	20	0.4	0.09	0.38
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	20	0.4	0.05	0.4
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	20	0.4	0.06	0.38
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	20	0.39	0.04	0.4
(1,810)	1:174:A:THR:HG21	1:181:A:ALA:H	20	0.39	0.03	0.39
(1,810)	1:174:A:THR:HG23	1:181:A:ALA:H	20	0.39	0.03	0.39
(1,810)	1:174:A:THR:HG22	1:181:A:ALA:H	20	0.39	0.03	0.39
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG22	20	0.39	0.03	0.39
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG21	20	0.39	0.03	0.39
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG23	20	0.39	0.03	0.39
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG22	20	0.38	0.01	0.38
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG23	20	0.38	0.01	0.38
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG21	20	0.38	0.01	0.38
(2,246)	1:126:A:LYS:HG3	1:127:A:LEU:HD13	20	0.38	0.28	0.32
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD12	20	0.38	0.28	0.32
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD11	20	0.38	0.28	0.32
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD13	20	0.38	0.28	0.32
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	20	0.38	0.1	0.38
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB3	20	0.38	0.07	0.4
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB1	20	0.38	0.07	0.4
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB2	20	0.38	0.07	0.4
(1,757)	1:171:A:ALA:HB1	1:192:A:PHE:HD1	20	0.38	0.07	0.38
(1,757)	1:171:A:ALA:HB2	1:192:A:PHE:HD1	20	0.38	0.07	0.38
(1,757)	1:171:A:ALA:HB3	1:192:A:PHE:HD1	20	0.38	0.07	0.38
(2,260)	1:125:A:VAL:HG21	1:128:A:LEU:HD11	20	0.38	0.1	0.36
(2,260)	1:125:A:VAL:HG23	1:128:A:LEU:HD13	20	0.38	0.1	0.36
(2,260)	1:125:A:VAL:HG22	1:128:A:LEU:HD12	20	0.38	0.1	0.36

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,260)	1:125:A:VAL:HG23	1:128:A:LEU:HD11	20	0.38	0.1	0.36
(2,260)	1:125:A:VAL:HG22	1:128:A:LEU:HD11	20	0.38	0.1	0.36
(2,260)	1:125:A:VAL:HG22	1:128:A:LEU:HD13	20	0.38	0.1	0.36
(2,260)	1:125:A:VAL:HG21	1:128:A:LEU:HD12	20	0.38	0.1	0.36
(2,260)	1:125:A:VAL:HG21	1:128:A:LEU:HD13	20	0.38	0.1	0.36
(2,260)	1:125:A:VAL:HG23	1:128:A:LEU:HD12	20	0.38	0.1	0.36
(2,123)	1:123:A:GLU:HG3	1:119:A:ILE:HA	20	0.38	0.08	0.36
(2,123)	1:123:A:GLU:HG2	1:119:A:ILE:HA	20	0.38	0.08	0.36
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG23	20	0.37	0.02	0.37
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG22	20	0.37	0.02	0.37
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG21	20	0.37	0.02	0.37
(1,813)	1:140:A:THR:HG22	1:138:A:LYS:HG3	20	0.37	0.03	0.38
(1,813)	1:140:A:THR:HG23	1:138:A:LYS:HG3	20	0.37	0.03	0.38
(1,813)	1:140:A:THR:HG21	1:138:A:LYS:HG3	20	0.37	0.03	0.38
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	20	0.37	0.01	0.37
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG22	20	0.37	0.03	0.36
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG23	20	0.37	0.03	0.36
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG21	20	0.37	0.03	0.36
(1,931)	1:119:A:ILE:HD12	1:180:A:LEU:HA	20	0.37	0.03	0.37
(1,931)	1:119:A:ILE:HD11	1:180:A:LEU:HA	20	0.37	0.03	0.37
(1,931)	1:119:A:ILE:HD13	1:180:A:LEU:HA	20	0.37	0.03	0.37
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	20	0.36	0.06	0.38
(2,285)	1:186:A:MET:HG2	1:186:A:MET:HB2	20	0.36	0.06	0.38
(2,285)	1:172:A:ARG:HB2	1:186:A:MET:HG3	20	0.36	0.06	0.38
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD22	20	0.36	0.02	0.36
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD21	20	0.36	0.02	0.36
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD23	20	0.36	0.02	0.36
(1,930)	1:119:A:ILE:HD12	1:175:A:PHE:HA	20	0.36	0.05	0.36
(1,930)	1:119:A:ILE:HD11	1:175:A:PHE:HA	20	0.36	0.05	0.36
(1,930)	1:119:A:ILE:HD13	1:175:A:PHE:HA	20	0.36	0.05	0.36
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	20	0.35	0.36	0.28
(1,822)	1:169:A:VAL:HG11	1:156:A:ARG:H	20	0.35	0.04	0.36
(1,822)	1:169:A:VAL:HG13	1:156:A:ARG:H	20	0.35	0.04	0.36
(1,822)	1:169:A:VAL:HG12	1:156:A:ARG:H	20	0.35	0.04	0.36
(1,769)	1:128:A:LEU:HD22	1:124:A:MET:HA	20	0.35	0.06	0.36
(1,769)	1:128:A:LEU:HD23	1:124:A:MET:HA	20	0.35	0.06	0.36
(1,769)	1:128:A:LEU:HD21	1:124:A:MET:HA	20	0.35	0.06	0.36
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	20	0.35	0.03	0.35
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	20	0.35	0.03	0.34
(1,857)	1:130:A:ALA:HB3	1:127:A:LEU:HD22	20	0.34	0.04	0.34
(1,857)	1:130:A:ALA:HB3	1:127:A:LEU:HD21	20	0.34	0.04	0.34
(1,857)	1:130:A:ALA:HB1	1:127:A:LEU:HD23	20	0.34	0.04	0.34

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,857)	1:130:A:ALA:HB2	1:127:A:LEU:HD21	20	0.34	0.04	0.34
(1,857)	1:130:A:ALA:HB1	1:127:A:LEU:HD22	20	0.34	0.04	0.34
(1,857)	1:130:A:ALA:HB2	1:127:A:LEU:HD22	20	0.34	0.04	0.34
(1,857)	1:130:A:ALA:HB3	1:127:A:LEU:HD23	20	0.34	0.04	0.34
(1,857)	1:130:A:ALA:HB2	1:127:A:LEU:HD23	20	0.34	0.04	0.34
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	20	0.34	0.07	0.36
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD22	20	0.34	0.04	0.32
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD23	20	0.34	0.04	0.32
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD21	20	0.34	0.04	0.32
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	20	0.34	0.01	0.34
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD22	20	0.34	0.01	0.34
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD21	20	0.34	0.01	0.34
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD23	20	0.34	0.01	0.34
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	20	0.33	0.01	0.33
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG21	20	0.33	0.06	0.32
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG22	20	0.33	0.06	0.32
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG23	20	0.33	0.06	0.32
(1,899)	1:119:A:ILE:HG21	1:180:A:LEU:HD12	20	0.33	0.05	0.32
(1,899)	1:119:A:ILE:HG22	1:180:A:LEU:HD11	20	0.33	0.05	0.32
(1,899)	1:119:A:ILE:HG21	1:180:A:LEU:HD11	20	0.33	0.05	0.32
(1,899)	1:119:A:ILE:HG22	1:180:A:LEU:HD12	20	0.33	0.05	0.32
(1,899)	1:119:A:ILE:HG22	1:180:A:LEU:HD13	20	0.33	0.05	0.32
(1,899)	1:119:A:ILE:HG23	1:180:A:LEU:HD12	20	0.33	0.05	0.32
(1,899)	1:119:A:ILE:HG21	1:180:A:LEU:HD13	20	0.33	0.05	0.32
(1,899)	1:119:A:ILE:HG23	1:180:A:LEU:HD13	20	0.33	0.05	0.32
(1,899)	1:119:A:ILE:HG23	1:180:A:LEU:HD11	20	0.33	0.05	0.32
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	20	0.33	0.02	0.33
(1,730)	1:125:A:VAL:HG12	1:126:A:LYS:HB3	20	0.33	0.02	0.32
(1,730)	1:125:A:VAL:HG13	1:126:A:LYS:HB3	20	0.33	0.02	0.32
(1,730)	1:125:A:VAL:HG11	1:126:A:LYS:HB3	20	0.33	0.02	0.32
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB3	20	0.33	0.02	0.33
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB2	20	0.33	0.02	0.33
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB1	20	0.33	0.02	0.33
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD13	20	0.32	0.03	0.33
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD12	20	0.32	0.03	0.33
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD11	20	0.32	0.03	0.33
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD11	20	0.32	0.25	0.28
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD13	20	0.32	0.25	0.28
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD12	20	0.32	0.25	0.28
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	20	0.32	0.05	0.31
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	20	0.32	0.15	0.32
(2,67)	1:170:A:ARG:HD2	1:155:A:ILE:HA	20	0.32	0.15	0.32

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	20	0.32	0.02	0.31
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	20	0.32	0.03	0.32
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG11	20	0.32	0.03	0.31
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG13	20	0.32	0.03	0.31
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG12	20	0.32	0.03	0.31
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	20	0.32	0.2	0.28
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	20	0.32	0.09	0.34
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD13	20	0.32	0.05	0.3
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD12	20	0.32	0.05	0.3
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD11	20	0.32	0.05	0.3
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	20	0.31	0.02	0.32
(1,902)	1:152:A:ILE:HD13	1:133:A:TYR:HD2	20	0.31	0.08	0.3
(1,902)	1:152:A:ILE:HD11	1:133:A:TYR:HD2	20	0.31	0.08	0.3
(1,902)	1:152:A:ILE:HD12	1:133:A:TYR:HD2	20	0.31	0.08	0.3
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	20	0.31	0.1	0.31
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	20	0.31	0.02	0.32
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	20	0.31	0.3	0.23
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG22	20	0.31	0.06	0.29
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG23	20	0.31	0.06	0.29
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG21	20	0.31	0.06	0.29
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	20	0.31	0.02	0.3
(1,748)	1:180:A:LEU:HD12	1:119:A:ILE:HG13	20	0.31	0.07	0.29
(1,748)	1:180:A:LEU:HD11	1:119:A:ILE:HG13	20	0.31	0.07	0.29
(1,748)	1:180:A:LEU:HD13	1:119:A:ILE:HG13	20	0.31	0.07	0.29
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	20	0.3	0.03	0.3
(1,747)	1:180:A:LEU:HD11	1:180:A:LEU:HD21	20	0.3	0.02	0.3
(1,747)	1:180:A:LEU:HD13	1:180:A:LEU:HD21	20	0.3	0.02	0.3
(1,747)	1:180:A:LEU:HD13	1:180:A:LEU:HD22	20	0.3	0.02	0.3
(1,747)	1:180:A:LEU:HD11	1:180:A:LEU:HD23	20	0.3	0.02	0.3
(1,747)	1:180:A:LEU:HD12	1:180:A:LEU:HD21	20	0.3	0.02	0.3
(1,747)	1:180:A:LEU:HD13	1:180:A:LEU:HD23	20	0.3	0.02	0.3
(1,747)	1:180:A:LEU:HD12	1:180:A:LEU:HD23	20	0.3	0.02	0.3
(1,747)	1:180:A:LEU:HD11	1:180:A:LEU:HD22	20	0.3	0.02	0.3
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG23	20	0.3	0.04	0.31
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG21	20	0.3	0.04	0.31
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG22	20	0.3	0.04	0.31
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	20	0.3	0.03	0.3
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	20	0.3	0.07	0.3
(1,837)	1:181:A:ALA:HB3	1:175:A:PHE:HA	20	0.3	0.04	0.3
(1,837)	1:181:A:ALA:HB2	1:175:A:PHE:HA	20	0.3	0.04	0.3
(1,837)	1:181:A:ALA:HB1	1:175:A:PHE:HA	20	0.3	0.04	0.3
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	20	0.29	0.03	0.3

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	20	0.29	0.02	0.29
(1,807)	1:136:A:VAL:HG22	1:136:A:VAL:HG11	20	0.29	0.04	0.3
(1,807)	1:136:A:VAL:HG23	1:136:A:VAL:HG12	20	0.29	0.04	0.3
(1,807)	1:136:A:VAL:HG21	1:136:A:VAL:HG12	20	0.29	0.04	0.3
(1,807)	1:136:A:VAL:HG21	1:136:A:VAL:HG13	20	0.29	0.04	0.3
(1,807)	1:136:A:VAL:HG23	1:136:A:VAL:HG13	20	0.29	0.04	0.3
(1,807)	1:136:A:VAL:HG23	1:136:A:VAL:HG11	20	0.29	0.04	0.3
(1,807)	1:136:A:VAL:HG22	1:136:A:VAL:HG13	20	0.29	0.04	0.3
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	20	0.29	0.08	0.29
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	20	0.28	0.02	0.28
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	20	0.28	0.02	0.28
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	20	0.28	0.02	0.28
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD12	20	0.28	0.04	0.29
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD11	20	0.28	0.04	0.29
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD13	20	0.28	0.04	0.29
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB1	20	0.28	0.02	0.29
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB2	20	0.28	0.02	0.29
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB3	20	0.28	0.02	0.29
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG11	20	0.28	0.04	0.28
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG13	20	0.28	0.04	0.28
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG12	20	0.28	0.04	0.28
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	20	0.28	0.05	0.28
(1,898)	1:119:A:ILE:HG21	1:119:A:ILE:HD13	20	0.27	0.08	0.24
(1,898)	1:119:A:ILE:HG22	1:119:A:ILE:HD12	20	0.27	0.08	0.24
(1,898)	1:119:A:ILE:HG21	1:119:A:ILE:HD12	20	0.27	0.08	0.24
(1,898)	1:119:A:ILE:HG22	1:119:A:ILE:HD13	20	0.27	0.08	0.24
(1,898)	1:119:A:ILE:HG22	1:119:A:ILE:HD11	20	0.27	0.08	0.24
(1,898)	1:119:A:ILE:HG23	1:119:A:ILE:HD12	20	0.27	0.08	0.24
(1,898)	1:119:A:ILE:HG23	1:119:A:ILE:HD11	20	0.27	0.08	0.24
(1,898)	1:119:A:ILE:HG23	1:119:A:ILE:HD13	20	0.27	0.08	0.24
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG23	20	0.27	0.03	0.27
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG21	20	0.27	0.03	0.27
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG22	20	0.27	0.03	0.27
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	20	0.27	0.05	0.28
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB2	20	0.27	0.01	0.27
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB3	20	0.27	0.01	0.27
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB1	20	0.27	0.01	0.27
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG22	20	0.27	0.03	0.27
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG21	20	0.27	0.03	0.27
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG23	20	0.27	0.03	0.27
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	20	0.27	0.18	0.2
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	20	0.26	0.03	0.27

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	20	0.26	0.03	0.27
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	20	0.26	0.03	0.27
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG21	20	0.26	0.04	0.25
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG22	20	0.26	0.04	0.25
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG23	20	0.26	0.04	0.25
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	20	0.26	0.02	0.25
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	20	0.26	0.02	0.25
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	20	0.25	0.03	0.25
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG23	20	0.25	0.01	0.25
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG22	20	0.25	0.01	0.25
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG21	20	0.25	0.01	0.25
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	20	0.25	0.04	0.25
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	20	0.25	0.06	0.24
(1,840)	1:181:A:ALA:HB3	1:175:A:PHE:HB2	20	0.25	0.03	0.25
(1,840)	1:181:A:ALA:HB2	1:175:A:PHE:HB2	20	0.25	0.03	0.25
(1,840)	1:181:A:ALA:HB1	1:175:A:PHE:HB2	20	0.25	0.03	0.25
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	20	0.25	0.04	0.24
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	20	0.24	0.05	0.24
(2,258)	1:127:A:LEU:HD11	1:127:A:LEU:HD12	20	0.24	0.0	0.24
(2,258)	1:127:A:LEU:HD23	1:127:A:LEU:HD21	20	0.24	0.0	0.24
(2,258)	1:127:A:LEU:HD13	1:127:A:LEU:HD12	20	0.24	0.0	0.24
(2,258)	1:127:A:LEU:HD22	1:127:A:LEU:HD21	20	0.24	0.0	0.24
(2,258)	1:127:A:LEU:HD11	1:127:A:LEU:HD13	20	0.24	0.0	0.24
(2,258)	1:127:A:LEU:HD23	1:127:A:LEU:HD22	20	0.24	0.0	0.24
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	20	0.24	0.01	0.23
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	20	0.24	0.06	0.26
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG21	20	0.24	0.03	0.23
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG23	20	0.24	0.03	0.23
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG22	20	0.24	0.03	0.23
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	20	0.24	0.05	0.24
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB1	20	0.24	0.01	0.24
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB3	20	0.24	0.01	0.24
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB2	20	0.24	0.01	0.24
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	20	0.23	0.03	0.22
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	20	0.23	0.01	0.24
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	20	0.23	0.01	0.23
(1,800)	1:182:A:THR:HG21	1:181:A:ALA:HB2	20	0.23	0.05	0.24
(1,800)	1:182:A:THR:HG21	1:181:A:ALA:HB1	20	0.23	0.05	0.24
(1,800)	1:182:A:THR:HG23	1:181:A:ALA:HB2	20	0.23	0.05	0.24
(1,800)	1:182:A:THR:HG23	1:181:A:ALA:HB1	20	0.23	0.05	0.24
(1,800)	1:182:A:THR:HG22	1:181:A:ALA:HB2	20	0.23	0.05	0.24
(1,800)	1:182:A:THR:HG21	1:181:A:ALA:HB3	20	0.23	0.05	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,800)	1:182:A:THR:HG23	1:181:A:ALA:HB3	20	0.23	0.05	0.24
(1,800)	1:182:A:THR:HG22	1:181:A:ALA:HB3	20	0.23	0.05	0.24
(1,800)	1:182:A:THR:HG22	1:181:A:ALA:HB1	20	0.23	0.05	0.24
(1,776)	1:146:A:THR:H	1:146:A:THR:HG23	20	0.23	0.04	0.24
(1,776)	1:146:A:THR:H	1:146:A:THR:HG21	20	0.23	0.04	0.24
(1,776)	1:146:A:THR:H	1:146:A:THR:HG22	20	0.23	0.04	0.24
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG21	20	0.23	0.02	0.23
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG22	20	0.23	0.02	0.23
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG23	20	0.23	0.02	0.23
(1,803)	1:136:A:VAL:HG21	1:134:A:ARG:H	20	0.23	0.06	0.24
(1,803)	1:136:A:VAL:HG22	1:134:A:ARG:H	20	0.23	0.06	0.24
(1,803)	1:136:A:VAL:HG23	1:134:A:ARG:H	20	0.23	0.06	0.24
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG22	20	0.23	0.1	0.18
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG23	20	0.23	0.1	0.18
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG21	20	0.23	0.1	0.18
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD13	20	0.22	0.04	0.23
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD12	20	0.22	0.04	0.23
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD11	20	0.22	0.04	0.23
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG21	20	0.22	0.05	0.23
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG22	20	0.22	0.05	0.23
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG23	20	0.22	0.05	0.23
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	20	0.22	0.03	0.22
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	20	0.22	0.06	0.21
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	20	0.22	0.06	0.2
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	20	0.22	0.03	0.22
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	20	0.22	0.04	0.22
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB1	20	0.22	0.02	0.22
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB2	20	0.22	0.02	0.22
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB3	20	0.22	0.02	0.22
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG23	20	0.22	0.03	0.22
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG22	20	0.22	0.03	0.22
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG21	20	0.22	0.03	0.22
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	20	0.21	0.02	0.22
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG12	20	0.21	0.02	0.21
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG13	20	0.21	0.02	0.21
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG11	20	0.21	0.02	0.21
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD12	20	0.21	0.04	0.22
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD11	20	0.21	0.04	0.22
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD13	20	0.21	0.04	0.22
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	20	0.21	0.04	0.2
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	20	0.2	0.06	0.2
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE3	20	0.2	0.06	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	20	0.2	0.05	0.2
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	20	0.2	0.01	0.2
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	20	0.2	0.02	0.2
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	20	0.2	0.03	0.2
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	20	0.19	0.11	0.17
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	20	0.19	0.03	0.18
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	20	0.19	0.04	0.2
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	20	0.19	0.02	0.2
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG23	20	0.18	0.02	0.18
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG21	20	0.18	0.02	0.18
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG22	20	0.18	0.02	0.18
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG23	20	0.18	0.02	0.18
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG22	20	0.18	0.02	0.18
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG21	20	0.18	0.02	0.18
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	20	0.18	0.05	0.18
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	20	0.17	0.01	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	20	0.17	0.0	0.17
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD11	20	0.16	0.02	0.16
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD13	20	0.16	0.02	0.16
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD12	20	0.16	0.02	0.16
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	20	0.16	0.01	0.16
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	20	0.16	0.02	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	20	0.16	0.01	0.16
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	20	0.15	0.04	0.15
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	20	0.15	0.02	0.16
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	20	0.14	0.0	0.14
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	20	0.14	0.01	0.14
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	20	0.13	0.01	0.13
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	20	0.13	0.03	0.13
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG21	20	0.12	0.01	0.12
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG23	20	0.12	0.01	0.12
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG22	20	0.12	0.01	0.12
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB3	19	1.68	0.92	1.37
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB2	19	1.68	0.92	1.37
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	19	1.42	0.05	1.45
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG11	19	1.02	0.24	1.07
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG13	19	1.02	0.24	1.07
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG12	19	1.02	0.24	1.07
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD13	19	1.01	0.07	1.01
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD11	19	1.01	0.07	1.01
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD12	19	1.01	0.07	1.01
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD11	19	0.82	0.59	0.37

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD12	19	0.82	0.59	0.37
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD13	19	0.82	0.59	0.37
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD11	19	0.82	0.12	0.8
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD13	19	0.82	0.12	0.8
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD12	19	0.82	0.12	0.8
(2,193)	1:139:A:MET:HG3	1:146:A:THR:HG22	19	0.77	0.07	0.78
(2,193)	1:139:A:MET:HG3	1:146:A:THR:HG23	19	0.77	0.07	0.78
(2,193)	1:139:A:MET:HG3	1:146:A:THR:HG21	19	0.77	0.07	0.78
(2,193)	1:139:A:MET:HG2	1:146:A:THR:HG21	19	0.77	0.07	0.78
(2,193)	1:139:A:MET:HG2	1:146:A:THR:HG22	19	0.77	0.07	0.78
(2,193)	1:139:A:MET:HG2	1:146:A:THR:HG23	19	0.77	0.07	0.78
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG12	19	0.76	0.25	0.69
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG11	19	0.76	0.25	0.69
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG13	19	0.76	0.25	0.69
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	19	0.75	0.23	0.86
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG23	19	0.67	0.77	0.17
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG22	19	0.67	0.77	0.17
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG21	19	0.67	0.77	0.17
(2,262)	1:113:A:LEU:HD23	1:180:A:LEU:HD11	19	0.62	0.21	0.66
(2,262)	1:113:A:LEU:HD22	1:180:A:LEU:HD13	19	0.62	0.21	0.66
(2,262)	1:113:A:LEU:HD23	1:180:A:LEU:HD12	19	0.62	0.21	0.66
(2,262)	1:113:A:LEU:HD11	1:180:A:LEU:HD13	19	0.62	0.21	0.66
(2,262)	1:113:A:LEU:HD21	1:180:A:LEU:HD13	19	0.62	0.21	0.66
(2,262)	1:113:A:LEU:HD21	1:180:A:LEU:HD11	19	0.62	0.21	0.66
(2,262)	1:113:A:LEU:HD22	1:180:A:LEU:HD11	19	0.62	0.21	0.66
(2,262)	1:113:A:LEU:HD22	1:180:A:LEU:HD12	19	0.62	0.21	0.66
(2,262)	1:113:A:LEU:HD12	1:180:A:LEU:HD11	19	0.62	0.21	0.66
(2,262)	1:113:A:LEU:HD21	1:180:A:LEU:HD12	19	0.62	0.21	0.66
(2,262)	1:113:A:LEU:HD13	1:180:A:LEU:HD12	19	0.62	0.21	0.66
(2,262)	1:113:A:LEU:HD23	1:180:A:LEU:HD13	19	0.62	0.21	0.66
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD13	19	0.53	0.06	0.51
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD12	19	0.53	0.06	0.51
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD11	19	0.53	0.06	0.51
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD13	19	0.51	0.05	0.52
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD12	19	0.51	0.05	0.52
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD11	19	0.51	0.05	0.52
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	19	0.48	0.03	0.47
(1,907)	1:152:A:ILE:HD13	1:124:A:MET:HA	19	0.47	0.13	0.45
(1,907)	1:152:A:ILE:HD11	1:124:A:MET:HA	19	0.47	0.13	0.45
(1,907)	1:152:A:ILE:HD12	1:124:A:MET:HA	19	0.47	0.13	0.45
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD12	19	0.44	0.07	0.46
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD13	19	0.44	0.07	0.46

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD11	19	0.44	0.07	0.46
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD12	19	0.4	0.05	0.41
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD11	19	0.4	0.05	0.41
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD13	19	0.4	0.05	0.41
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	19	0.4	0.01	0.4
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	19	0.39	0.07	0.38
(1,850)	1:183:A:ILE:HG21	1:114:A:GLU:H	19	0.39	0.13	0.42
(1,850)	1:183:A:ILE:HG23	1:114:A:GLU:H	19	0.39	0.13	0.42
(1,850)	1:183:A:ILE:HG22	1:114:A:GLU:H	19	0.39	0.13	0.42
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	19	0.37	0.09	0.36
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	19	0.36	0.45	0.18
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	19	0.32	0.04	0.31
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG22	19	0.32	0.11	0.29
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG21	19	0.32	0.11	0.29
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG23	19	0.32	0.11	0.29
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD13	19	0.3	0.06	0.29
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD11	19	0.3	0.06	0.29
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD12	19	0.3	0.06	0.29
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	19	0.29	0.04	0.29
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD12	19	0.28	0.08	0.3
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD11	19	0.28	0.08	0.3
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD13	19	0.28	0.08	0.3
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	19	0.27	0.36	0.19
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD12	19	0.26	0.07	0.25
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD13	19	0.26	0.07	0.25
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD11	19	0.26	0.07	0.25
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG23	19	0.26	0.07	0.28
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG21	19	0.26	0.07	0.28
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG22	19	0.26	0.07	0.28
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	19	0.25	0.28	0.21
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG22	19	0.25	0.09	0.26
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG23	19	0.25	0.09	0.26
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG21	19	0.25	0.09	0.26
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD12	19	0.25	0.07	0.29
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD11	19	0.25	0.07	0.29
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD13	19	0.25	0.07	0.29
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG21	19	0.24	0.03	0.24
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG23	19	0.24	0.03	0.24
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG22	19	0.24	0.03	0.24
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG23	19	0.22	0.07	0.21
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG22	19	0.22	0.07	0.21
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG21	19	0.22	0.07	0.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG21	19	0.21	0.04	0.21
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG23	19	0.21	0.04	0.21
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG22	19	0.21	0.04	0.21
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD11	19	0.2	0.05	0.19
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD13	19	0.2	0.05	0.19
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD12	19	0.2	0.05	0.19
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	19	0.18	0.04	0.18
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	19	0.18	0.03	0.18
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	19	0.17	0.02	0.18
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	19	0.16	0.04	0.16
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB2	19	0.15	0.03	0.16
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB1	19	0.15	0.03	0.16
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB3	19	0.15	0.03	0.16
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	19	0.14	0.03	0.13
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	19	0.14	0.03	0.13
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	19	0.14	0.02	0.14
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	19	0.12	0.01	0.12
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG23	19	0.12	0.01	0.12
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG22	19	0.12	0.01	0.12
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG21	19	0.12	0.01	0.12
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG12	19	0.12	0.01	0.12
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG21	18	1.66	0.69	1.96
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG22	18	1.66	0.69	1.96
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG23	18	1.66	0.69	1.96
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	18	1.0	0.2	1.05
(1,687)	1:197:A:LEU:HD13	1:176:A:ASP:HB3	18	0.87	0.24	0.84
(1,687)	1:197:A:LEU:HD11	1:176:A:ASP:HB3	18	0.87	0.24	0.84
(1,687)	1:197:A:LEU:HD12	1:176:A:ASP:HB3	18	0.87	0.24	0.84
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	18	0.62	0.12	0.58
(1,903)	1:152:A:ILE:HD11	1:175:A:PHE:HE1	18	0.51	0.11	0.47
(1,903)	1:152:A:ILE:HD12	1:175:A:PHE:HE1	18	0.51	0.11	0.47
(1,903)	1:152:A:ILE:HD13	1:175:A:PHE:HE1	18	0.51	0.11	0.47
(1,903)	1:152:A:ILE:HD11	1:175:A:PHE:HE2	18	0.51	0.11	0.47
(1,903)	1:152:A:ILE:HD12	1:175:A:PHE:HE2	18	0.51	0.11	0.47
(2,267)	1:113:A:LEU:HD22	1:117:A:MET:HB3	18	0.46	0.23	0.39
(2,267)	1:113:A:LEU:HD21	1:117:A:MET:HB3	18	0.46	0.23	0.39
(2,267)	1:113:A:LEU:HD11	1:117:A:MET:HB3	18	0.46	0.23	0.39
(2,267)	1:113:A:LEU:HD23	1:117:A:MET:HB3	18	0.46	0.23	0.39
(2,267)	1:113:A:LEU:HD12	1:117:A:MET:HB3	18	0.46	0.23	0.39
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG13	18	0.45	0.16	0.53
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG11	18	0.45	0.16	0.53
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG12	18	0.45	0.16	0.53

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,88)	1:165:A:LYS:HE3	1:164:A:SER:H	18	0.39	0.12	0.41
(2,88)	1:165:A:LYS:HE2	1:164:A:SER:H	18	0.39	0.12	0.41
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD13	18	0.34	0.17	0.32
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD11	18	0.34	0.17	0.32
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD12	18	0.34	0.17	0.32
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD22	18	0.34	0.17	0.32
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB3	18	0.32	0.12	0.3
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB2	18	0.32	0.12	0.3
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD3	18	0.31	0.18	0.34
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD2	18	0.31	0.18	0.34
(2,109)	1:154:A:MET:HB3	1:173:A:LEU:HG	18	0.3	0.13	0.26
(2,109)	1:154:A:MET:HB2	1:173:A:LEU:HG	18	0.3	0.13	0.26
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	18	0.29	0.04	0.3
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG13	18	0.28	0.05	0.28
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG12	18	0.28	0.05	0.28
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG11	18	0.28	0.05	0.28
(1,811)	1:169:A:VAL:HG21	1:169:A:VAL:H	18	0.26	0.04	0.26
(1,811)	1:169:A:VAL:HG23	1:169:A:VAL:H	18	0.26	0.04	0.26
(1,811)	1:169:A:VAL:HG22	1:169:A:VAL:H	18	0.26	0.04	0.26
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	18	0.25	0.04	0.26
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB3	18	0.25	0.04	0.26
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	18	0.19	0.05	0.18
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	18	0.19	0.05	0.18
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	18	0.18	0.04	0.18
(2,113)	1:122:A:ASN:HB2	1:123:A:GLU:H	18	0.16	0.04	0.16
(2,113)	1:122:A:ASN:HB3	1:123:A:GLU:H	18	0.16	0.04	0.16
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG23	18	0.15	0.02	0.16
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG22	18	0.15	0.02	0.16
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG21	18	0.15	0.02	0.16
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	18	0.14	0.02	0.14
(2,266)	1:113:A:LEU:HD21	1:173:A:LEU:HA	17	0.61	0.25	0.48
(2,266)	1:113:A:LEU:HD11	1:173:A:LEU:HA	17	0.61	0.25	0.48
(2,266)	1:113:A:LEU:HD23	1:173:A:LEU:HA	17	0.61	0.25	0.48
(2,266)	1:113:A:LEU:HD13	1:173:A:LEU:HA	17	0.61	0.25	0.48
(2,266)	1:113:A:LEU:HD22	1:173:A:LEU:HA	17	0.61	0.25	0.48
(2,266)	1:113:A:LEU:HD12	1:173:A:LEU:HA	17	0.61	0.25	0.48
(1,670)	1:173:A:LEU:HD12	1:175:A:PHE:HD1	17	0.52	0.32	0.42
(1,670)	1:173:A:LEU:HD11	1:175:A:PHE:HD1	17	0.52	0.32	0.42
(1,670)	1:173:A:LEU:HD13	1:175:A:PHE:HD1	17	0.52	0.32	0.42
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG21	17	0.34	0.11	0.31
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG22	17	0.34	0.11	0.31
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG23	17	0.34	0.11	0.31

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	17	0.29	0.06	0.29
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD23	17	0.29	0.07	0.28
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD21	17	0.29	0.07	0.28
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD22	17	0.29	0.07	0.28
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	17	0.24	0.07	0.25
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	17	0.21	0.28	0.15
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	17	0.21	0.05	0.22
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	17	0.13	0.02	0.14
(1,689)	1:197:A:LEU:HD13	1:174:A:THR:HA	16	1.73	1.04	2.38
(1,689)	1:197:A:LEU:HD11	1:174:A:THR:HA	16	1.73	1.04	2.38
(1,689)	1:197:A:LEU:HD12	1:174:A:THR:HA	16	1.73	1.04	2.38
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	16	0.84	0.18	0.88
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	16	0.49	0.4	0.32
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	16	0.44	0.52	0.25
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB2	16	0.32	0.12	0.31
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB3	16	0.32	0.12	0.31
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG3	16	0.22	0.08	0.22
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG2	16	0.22	0.08	0.22
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG23	16	0.2	0.06	0.19
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG22	16	0.2	0.06	0.19
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG21	16	0.2	0.06	0.19
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	16	0.2	0.13	0.17
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG22	16	0.18	0.06	0.18
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG21	16	0.18	0.06	0.18
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG23	16	0.18	0.06	0.18
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	16	0.18	0.05	0.18
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	16	0.17	0.02	0.17
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	16	0.16	0.04	0.15
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	16	0.14	0.02	0.15
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	16	0.13	0.03	0.12
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	16	0.13	0.01	0.13
(1,81)	1:140:A:THR:HA	1:141:A:ARG:HG3	15	1.3	0.06	1.29
(2,183)	1:121:A:LYS:HB3	1:122:A:ASN:HB2	15	0.74	0.47	0.59
(1,12)	1:194:A:PHE:HD2	1:193:A:GLY:HA3	15	0.62	0.33	0.53
(1,12)	1:194:A:PHE:HD1	1:193:A:GLY:HA3	15	0.62	0.33	0.53
(1,737)	1:171:A:ALA:HB3	1:192:A:PHE:HE1	15	0.34	0.17	0.37
(1,737)	1:171:A:ALA:HB2	1:192:A:PHE:HE1	15	0.34	0.17	0.37
(1,737)	1:171:A:ALA:HB1	1:192:A:PHE:HE1	15	0.34	0.17	0.37
(2,228)	1:141:A:ARG:HD2	1:141:A:ARG:HG3	15	0.32	0.03	0.33
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB3	15	0.31	0.07	0.3
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB2	15	0.31	0.07	0.3
(2,51)	1:141:A:ARG:HA	1:141:A:ARG:HG2	15	0.27	0.03	0.28

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD2	15	0.27	0.11	0.3
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD1	15	0.27	0.11	0.3
(2,172)	1:110:A:MET:HB3	1:110:A:MET:H	15	0.23	0.08	0.21
(2,274)	1:140:A:THR:HG22	1:138:A:LYS:HE2	15	0.22	0.07	0.25
(2,274)	1:140:A:THR:HG21	1:138:A:LYS:HE2	15	0.22	0.07	0.25
(2,274)	1:140:A:THR:HG23	1:138:A:LYS:HE2	15	0.22	0.07	0.25
(1,213)	1:167:A:GLY:H	1:166:A:GLU:HA	15	0.19	0.15	0.15
(1,477)	1:167:A:GLY:H	1:166:A:GLU:HG3	15	0.16	0.04	0.17
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD12	15	0.15	0.03	0.15
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD11	15	0.15	0.03	0.15
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD13	15	0.15	0.03	0.15
(1,980)	1:139:A:MET:H	1:140:A:THR:H	15	0.14	0.03	0.14
(1,145)	1:123:A:GLU:HA	1:120:A:SER:H	15	0.13	0.03	0.13
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG12	15	0.12	0.03	0.11
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG11	15	0.12	0.03	0.11
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG13	15	0.12	0.03	0.11
(1,347)	1:177:A:GLY:HA2	1:179:A:HIS:H	15	0.12	0.01	0.12
(1,1073)	1:169:A:VAL:H	1:168:A:GLN:HG3	14	0.68	0.34	0.78
(2,93)	1:163:A:ASP:HB3	1:161:A:PHE:HD2	14	0.55	0.18	0.6
(2,93)	1:163:A:ASP:HB3	1:161:A:PHE:HD1	14	0.55	0.18	0.6
(2,284)	1:147:A:VAL:HG21	1:152:A:ILE:HD13	14	0.4	0.09	0.41
(2,284)	1:147:A:VAL:HG21	1:152:A:ILE:HD11	14	0.4	0.09	0.41
(2,284)	1:147:A:VAL:HG22	1:152:A:ILE:HD12	14	0.4	0.09	0.41
(2,284)	1:147:A:VAL:HG21	1:152:A:ILE:HD12	14	0.4	0.09	0.41
(2,284)	1:147:A:VAL:HG23	1:152:A:ILE:HD13	14	0.4	0.09	0.41
(2,284)	1:147:A:VAL:HG22	1:152:A:ILE:HD13	14	0.4	0.09	0.41
(2,284)	1:147:A:VAL:HG22	1:152:A:ILE:HD11	14	0.4	0.09	0.41
(2,284)	1:147:A:VAL:HG23	1:152:A:ILE:HD12	14	0.4	0.09	0.41
(1,137)	1:146:A:THR:HA	1:147:A:VAL:HB	14	0.34	0.02	0.34
(2,135)	1:166:A:GLU:HG2	1:164:A:SER:HB3	14	0.28	0.27	0.22
(1,48)	1:125:A:VAL:HA	1:126:A:LYS:HG2	14	0.22	0.4	0.12
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG22	14	0.22	0.08	0.21
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG23	14	0.22	0.08	0.21
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG21	14	0.22	0.08	0.21
(1,977)	1:135:A:GLN:H	1:134:A:ARG:HB2	14	0.2	0.06	0.2
(1,34)	1:131:A:THR:HB	1:127:A:LEU:HB2	14	0.19	0.05	0.18
(1,303)	1:197:A:LEU:HA	1:176:A:ASP:HA	14	0.18	0.05	0.18
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG23	14	0.17	0.03	0.16
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG21	14	0.17	0.03	0.16
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG22	14	0.17	0.03	0.16
(1,167)	1:186:A:MET:H	1:187:A:GLU:HA	14	0.13	0.04	0.12
(1,480)	1:170:A:ARG:H	1:169:A:VAL:HB	14	0.12	0.03	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,193)	1:117:A:MET:HA	1:117:A:MET:HB3	14	0.12	0.01	0.12
(1,91)	1:111:A:VAL:H	1:111:A:VAL:HA	14	0.12	0.01	0.12
(1,959)	1:170:A:ARG:H	1:170:A:ARG:HB2	14	0.12	0.01	0.11
(1,795)	1:182:A:THR:HG22	1:193:A:GLY:HA3	13	1.23	0.59	1.5
(1,795)	1:182:A:THR:HG21	1:193:A:GLY:HA3	13	1.23	0.59	1.5
(1,795)	1:182:A:THR:HG23	1:193:A:GLY:HA3	13	1.23	0.59	1.5
(2,56)	1:197:A:LEU:HB3	1:176:A:ASP:HA	13	0.48	0.12	0.51
(2,56)	1:197:A:LEU:HB2	1:176:A:ASP:HA	13	0.48	0.12	0.51
(2,134)	1:166:A:GLU:HG3	1:159:A:PHE:HD2	13	0.41	0.15	0.39
(2,134)	1:166:A:GLU:HG3	1:159:A:PHE:HD1	13	0.41	0.15	0.39
(2,134)	1:166:A:GLU:HG2	1:159:A:PHE:HD2	13	0.41	0.15	0.39
(2,66)	1:170:A:ARG:HD3	1:187:A:GLU:H	13	0.35	0.14	0.41
(2,66)	1:170:A:ARG:HD2	1:187:A:GLU:H	13	0.35	0.14	0.41
(1,1001)	1:165:A:LYS:H	1:164:A:SER:HB3	13	0.3	0.29	0.21
(1,1200)	1:140:A:THR:H	1:155:A:ILE:HD11	13	0.26	0.07	0.27
(1,1200)	1:140:A:THR:H	1:155:A:ILE:HD12	13	0.26	0.07	0.27
(1,1200)	1:140:A:THR:H	1:155:A:ILE:HD13	13	0.26	0.07	0.27
(1,788)	1:139:A:MET:HB2	1:146:A:THR:HG23	13	0.24	0.08	0.21
(1,788)	1:139:A:MET:HB2	1:146:A:THR:HG21	13	0.24	0.08	0.21
(1,788)	1:139:A:MET:HB2	1:146:A:THR:HG22	13	0.24	0.08	0.21
(2,2)	1:140:A:THR:HB	1:138:A:LYS:HE2	13	0.23	0.07	0.25
(2,188)	1:139:A:MET:HG3	1:146:A:THR:HA	13	0.23	0.07	0.22
(2,188)	1:139:A:MET:HG2	1:146:A:THR:HA	13	0.23	0.07	0.22
(1,211)	1:139:A:MET:HA	1:146:A:THR:HG23	13	0.2	0.05	0.21
(1,211)	1:139:A:MET:HA	1:146:A:THR:HG21	13	0.2	0.05	0.21
(1,211)	1:139:A:MET:HA	1:146:A:THR:HG22	13	0.2	0.05	0.21
(1,932)	1:119:A:ILE:HD12	1:117:A:MET:HG3	13	0.18	0.06	0.15
(1,932)	1:119:A:ILE:HD13	1:117:A:MET:HG3	13	0.18	0.06	0.15
(1,932)	1:119:A:ILE:HD11	1:117:A:MET:HG3	13	0.18	0.06	0.15
(1,345)	1:171:A:ALA:HA	1:169:A:VAL:HG11	13	0.18	0.07	0.14
(1,345)	1:171:A:ALA:HA	1:169:A:VAL:HG13	13	0.18	0.07	0.14
(1,345)	1:171:A:ALA:HA	1:169:A:VAL:HG12	13	0.18	0.07	0.14
(1,387)	1:175:A:PHE:HB2	1:180:A:LEU:HA	13	0.15	0.03	0.16
(1,891)	1:119:A:ILE:HA	1:119:A:ILE:HG22	13	0.15	0.03	0.15
(1,891)	1:119:A:ILE:HA	1:119:A:ILE:HG23	13	0.15	0.03	0.15
(1,891)	1:119:A:ILE:HA	1:119:A:ILE:HG21	13	0.15	0.03	0.15
(1,1111)	1:147:A:VAL:H	1:146:A:THR:HB	13	0.14	0.03	0.13
(1,736)	1:171:A:ALA:H	1:171:A:ALA:HB2	13	0.14	0.05	0.12
(1,736)	1:171:A:ALA:H	1:171:A:ALA:HB3	13	0.14	0.05	0.12
(1,736)	1:171:A:ALA:H	1:171:A:ALA:HB1	13	0.14	0.05	0.12
(1,50)	1:125:A:VAL:HA	1:129:A:GLU:HG2	12	1.22	0.04	1.22
(2,71)	1:141:A:ARG:HA	1:141:A:ARG:HD3	12	0.71	0.66	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,71)	1:141:A:ARG:HA	1:141:A:ARG:HD2	12	0.71	0.66	0.2
(1,156)	1:126:A:LYS:HA	1:129:A:GLU:HG2	12	0.68	0.05	0.68
(1,517)	1:135:A:GLN:HG2	1:146:A:THR:HA	12	0.58	0.11	0.57
(1,672)	1:173:A:LEU:HD11	1:183:A:ILE:HD13	12	0.43	0.72	0.24
(1,672)	1:173:A:LEU:HD13	1:183:A:ILE:HD12	12	0.43	0.72	0.24
(1,672)	1:173:A:LEU:HD12	1:183:A:ILE:HD11	12	0.43	0.72	0.24
(1,672)	1:173:A:LEU:HD12	1:183:A:ILE:HD13	12	0.43	0.72	0.24
(1,672)	1:173:A:LEU:HD11	1:183:A:ILE:HD11	12	0.43	0.72	0.24
(1,446)	1:128:A:LEU:H	1:129:A:GLU:HG2	12	0.42	0.03	0.42
(2,190)	1:139:A:MET:HG2	1:139:A:MET:H	12	0.39	0.14	0.42
(2,190)	1:139:A:MET:H	1:139:A:MET:HG3	12	0.39	0.14	0.42
(2,46)	1:153:A:GLU:HA	1:186:A:MET:HG3	12	0.33	0.13	0.34
(1,923)	1:183:A:ILE:HD11	1:114:A:GLU:H	12	0.31	0.14	0.28
(1,923)	1:183:A:ILE:HD13	1:114:A:GLU:H	12	0.31	0.14	0.28
(1,923)	1:183:A:ILE:HD12	1:114:A:GLU:H	12	0.31	0.14	0.28
(2,192)	1:139:A:MET:HG2	1:140:A:THR:H	12	0.3	0.04	0.31
(2,192)	1:139:A:MET:HG3	1:140:A:THR:H	12	0.3	0.04	0.31
(1,680)	1:140:A:THR:H	1:141:A:ARG:HG3	12	0.25	0.08	0.27
(2,14)	1:111:A:VAL:HA	1:110:A:MET:HG3	12	0.2	0.05	0.22
(1,247)	1:170:A:ARG:HA	1:155:A:ILE:HD12	12	0.17	0.05	0.16
(1,247)	1:170:A:ARG:HA	1:155:A:ILE:HD13	12	0.17	0.05	0.16
(1,247)	1:170:A:ARG:HA	1:155:A:ILE:HD11	12	0.17	0.05	0.16
(1,612)	1:173:A:LEU:HG	1:154:A:MET:H	12	0.15	0.02	0.16
(1,152)	1:136:A:VAL:HA	1:136:A:VAL:HG11	12	0.14	0.04	0.14
(1,152)	1:136:A:VAL:HA	1:136:A:VAL:HG12	12	0.14	0.04	0.14
(1,152)	1:136:A:VAL:HA	1:136:A:VAL:HG13	12	0.14	0.04	0.14
(1,1265)	1:110:A:MET:H	1:111:A:VAL:H	12	0.14	0.03	0.13
(1,688)	1:197:A:LEU:HD13	1:175:A:PHE:H	11	1.54	0.11	1.58
(1,688)	1:197:A:LEU:HD11	1:175:A:PHE:H	11	1.54	0.11	1.58
(1,688)	1:197:A:LEU:HD12	1:175:A:PHE:H	11	1.54	0.11	1.58
(1,443)	1:122:A:ASN:HB3	1:122:A:ASN:H	11	0.7	0.02	0.7
(2,278)	1:174:A:THR:HG23	1:197:A:LEU:HB2	11	0.67	0.17	0.69
(2,278)	1:174:A:THR:HG21	1:197:A:LEU:HB2	11	0.67	0.17	0.69
(2,156)	1:168:A:GLN:HG3	1:155:A:ILE:HD13	11	0.62	0.32	0.63
(2,156)	1:168:A:GLN:HG2	1:155:A:ILE:HD11	11	0.62	0.32	0.63
(2,156)	1:168:A:GLN:HG3	1:155:A:ILE:HD11	11	0.62	0.32	0.63
(2,156)	1:168:A:GLN:HG3	1:155:A:ILE:HD12	11	0.62	0.32	0.63
(2,152)	1:168:A:GLN:HG3	1:155:A:ILE:HG21	11	0.59	0.24	0.65
(2,152)	1:168:A:GLN:HG3	1:155:A:ILE:HG22	11	0.59	0.24	0.65
(2,152)	1:168:A:GLN:HG2	1:155:A:ILE:HG21	11	0.59	0.24	0.65
(2,152)	1:168:A:GLN:HG3	1:155:A:ILE:HG23	11	0.59	0.24	0.65
(1,973)	1:171:A:ALA:H	1:170:A:ARG:HD2	11	0.55	0.08	0.52

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,210)	1:159:A:PHE:HD1	1:159:A:PHE:HA	11	0.52	0.47	0.19
(1,210)	1:159:A:PHE:HD2	1:159:A:PHE:HA	11	0.52	0.47	0.19
(1,1023)	1:121:A:LYS:H	1:121:A:LYS:HB3	11	0.3	0.02	0.31
(2,9)	1:164:A:SER:HB2	1:161:A:PHE:HD1	11	0.29	0.14	0.26
(2,9)	1:164:A:SER:HB2	1:161:A:PHE:HD2	11	0.29	0.14	0.26
(2,9)	1:164:A:SER:HB3	1:161:A:PHE:HD1	11	0.29	0.14	0.26
(2,9)	1:164:A:SER:HB3	1:161:A:PHE:HD2	11	0.29	0.14	0.26
(1,802)	1:184:A:VAL:HG22	1:182:A:THR:HG23	11	0.22	0.1	0.2
(1,802)	1:184:A:VAL:HG23	1:182:A:THR:HG23	11	0.22	0.1	0.2
(1,802)	1:184:A:VAL:HG23	1:182:A:THR:HG22	11	0.22	0.1	0.2
(1,802)	1:184:A:VAL:HG21	1:182:A:THR:HG21	11	0.22	0.1	0.2
(1,802)	1:184:A:VAL:HG23	1:182:A:THR:HG21	11	0.22	0.1	0.2
(1,802)	1:184:A:VAL:HG22	1:182:A:THR:HG22	11	0.22	0.1	0.2
(1,653)	1:183:A:ILE:HG13	1:180:A:LEU:HD11	11	0.15	0.04	0.15
(1,653)	1:183:A:ILE:HG13	1:180:A:LEU:HD13	11	0.15	0.04	0.15
(1,653)	1:183:A:ILE:HG13	1:180:A:LEU:HD12	11	0.15	0.04	0.15
(2,178)	1:166:A:GLU:HB3	1:166:A:GLU:H	11	0.13	0.02	0.12
(1,989)	1:153:A:GLU:H	1:154:A:MET:H	11	0.11	0.02	0.11
(1,1126)	1:110:A:MET:H	1:110:A:MET:HA	11	0.11	0.01	0.11
(1,2)	1:182:A:THR:HB	1:193:A:GLY:HA3	10	1.36	0.21	1.42
(1,379)	1:173:A:LEU:HB2	1:180:A:LEU:HD13	10	0.22	0.21	0.14
(1,379)	1:173:A:LEU:HB2	1:180:A:LEU:HD11	10	0.22	0.21	0.14
(1,379)	1:173:A:LEU:HB2	1:180:A:LEU:HD12	10	0.22	0.21	0.14
(1,328)	1:188:A:ASN:HA	1:187:A:GLU:HB2	10	0.12	0.02	0.11
(1,684)	1:113:A:LEU:HD23	1:183:A:ILE:HD13	9	1.11	0.7	1.04
(1,684)	1:113:A:LEU:HD21	1:183:A:ILE:HD13	9	1.11	0.7	1.04
(1,684)	1:113:A:LEU:HD21	1:183:A:ILE:HD12	9	1.11	0.7	1.04
(1,684)	1:113:A:LEU:HD21	1:183:A:ILE:HD11	9	1.11	0.7	1.04
(1,684)	1:113:A:LEU:HD23	1:183:A:ILE:HD11	9	1.11	0.7	1.04
(1,684)	1:113:A:LEU:HD22	1:183:A:ILE:HD11	9	1.11	0.7	1.04
(1,488)	1:117:A:MET:HB2	1:114:A:GLU:H	9	0.93	0.53	1.26
(1,572)	1:153:A:GLU:HB3	1:139:A:MET:HG3	9	0.63	0.23	0.65
(1,360)	1:167:A:GLY:HA2	1:158:A:PRO:HA	9	0.62	0.37	0.56
(1,951)	1:129:A:GLU:HG2	1:129:A:GLU:HB3	9	0.57	0.16	0.63
(1,494)	1:117:A:MET:HB2	1:180:A:LEU:HB3	9	0.5	0.38	0.3
(2,115)	1:122:A:ASN:HB3	1:126:A:LYS:H	9	0.48	0.07	0.48
(1,686)	1:197:A:LEU:HD11	1:197:A:LEU:HA	9	0.45	0.19	0.38
(1,686)	1:197:A:LEU:HD12	1:197:A:LEU:HA	9	0.45	0.19	0.38
(1,686)	1:197:A:LEU:HD13	1:197:A:LEU:HA	9	0.45	0.19	0.38
(1,304)	1:160:A:ASP:HA	1:159:A:PHE:HD1	9	0.32	0.11	0.3
(1,304)	1:160:A:ASP:HA	1:159:A:PHE:HD2	9	0.32	0.11	0.3
(1,799)	1:182:A:THR:HG22	1:194:A:PHE:HA	9	0.28	0.09	0.28

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,799)	1:182:A:THR:HG21	1:194:A:PHE:HA	9	0.28	0.09	0.28
(1,799)	1:182:A:THR:HG23	1:194:A:PHE:HA	9	0.28	0.09	0.28
(1,1181)	1:154:A:MET:H	1:154:A:MET:HG3	9	0.25	0.08	0.23
(1,499)	1:135:A:GLN:HG3	1:136:A:VAL:HA	9	0.21	0.03	0.21
(1,1165)	1:117:A:MET:H	1:180:A:LEU:HD22	9	0.19	0.09	0.17
(1,1165)	1:117:A:MET:H	1:180:A:LEU:HD23	9	0.19	0.09	0.17
(1,1165)	1:117:A:MET:H	1:180:A:LEU:HD21	9	0.19	0.09	0.17
(1,89)	1:118:A:THR:HA	1:117:A:MET:HG2	9	0.18	0.08	0.14
(1,724)	1:124:A:MET:HA	1:127:A:LEU:HD12	9	0.17	0.04	0.17
(1,724)	1:124:A:MET:HA	1:127:A:LEU:HD13	9	0.17	0.04	0.17
(1,724)	1:124:A:MET:HA	1:127:A:LEU:HD11	9	0.17	0.04	0.17
(1,148)	1:136:A:VAL:HA	1:135:A:GLN:HG2	9	0.16	0.02	0.16
(1,915)	1:182:A:THR:HA	1:183:A:ILE:HD12	9	0.15	0.03	0.15
(1,915)	1:182:A:THR:HA	1:183:A:ILE:HD11	9	0.15	0.03	0.15
(1,915)	1:182:A:THR:HA	1:183:A:ILE:HD13	9	0.15	0.03	0.15
(1,1158)	1:159:A:PHE:H	1:158:A:PRO:HB3	9	0.14	0.02	0.14
(2,94)	1:160:A:ASP:HB2	1:165:A:LYS:HD3	9	0.14	0.02	0.14
(1,214)	1:122:A:ASN:HA	1:126:A:LYS:H	9	0.13	0.02	0.15
(1,646)	1:183:A:ILE:HG12	1:173:A:LEU:HG	9	0.12	0.01	0.12
(1,361)	1:167:A:GLY:HA2	1:158:A:PRO:HB2	8	1.07	0.37	1.08
(1,450)	1:129:A:GLU:HG3	1:128:A:LEU:HD13	8	0.72	0.03	0.71
(1,450)	1:129:A:GLU:HG3	1:128:A:LEU:HD12	8	0.72	0.03	0.71
(1,450)	1:129:A:GLU:HG3	1:128:A:LEU:HD11	8	0.72	0.03	0.71
(1,547)	1:167:A:GLY:HA2	1:158:A:PRO:HB3	8	0.72	0.15	0.75
(1,353)	1:193:A:GLY:HA2	1:184:A:VAL:HG13	8	0.6	0.34	0.44
(1,353)	1:193:A:GLY:HA2	1:184:A:VAL:HG12	8	0.6	0.34	0.44
(1,353)	1:193:A:GLY:HA2	1:184:A:VAL:HG11	8	0.6	0.34	0.44
(1,1167)	1:159:A:PHE:H	1:159:A:PHE:HB2	8	0.48	0.22	0.45
(1,66)	1:158:A:PRO:HA	1:159:A:PHE:HD2	8	0.47	0.13	0.46
(1,66)	1:158:A:PRO:HA	1:159:A:PHE:HD1	8	0.47	0.13	0.46
(1,252)	1:153:A:GLU:HA	1:173:A:LEU:HD22	8	0.34	0.59	0.11
(1,252)	1:153:A:GLU:HA	1:173:A:LEU:HD21	8	0.34	0.59	0.11
(1,252)	1:153:A:GLU:HA	1:173:A:LEU:HD23	8	0.34	0.59	0.11
(1,451)	1:129:A:GLU:HA	1:129:A:GLU:HG3	8	0.31	0.02	0.32
(1,147)	1:136:A:VAL:HA	1:137:A:SER:HB2	8	0.26	0.39	0.12
(1,712)	1:165:A:LYS:HG2	1:161:A:PHE:H	8	0.22	0.08	0.18
(1,454)	1:130:A:ALA:H	1:129:A:GLU:HG3	8	0.2	0.01	0.2
(1,1008)	1:175:A:PHE:H	1:175:A:PHE:HB3	8	0.13	0.03	0.12
(1,507)	1:147:A:VAL:HB	1:135:A:GLN:H	8	0.12	0.02	0.12
(1,166)	1:188:A:ASN:H	1:187:A:GLU:HA	8	0.11	0.01	0.11
(2,230)	1:144:A:GLU:H	1:141:A:ARG:HG3	7	0.59	0.22	0.65
(2,230)	1:141:A:ARG:HG2	1:144:A:GLU:H	7	0.59	0.22	0.65

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1136)	1:152:A:ILE:H	1:151:A:SER:HB3	7	0.55	0.04	0.53
(2,47)	1:160:A:ASP:HA	1:159:A:PHE:HB3	7	0.54	0.08	0.51
(2,176)	1:114:A:GLU:HB3	1:183:A:ILE:HD11	7	0.49	0.23	0.46
(2,176)	1:114:A:GLU:HB3	1:183:A:ILE:HD13	7	0.49	0.23	0.46
(2,176)	1:114:A:GLU:HB3	1:183:A:ILE:HD12	7	0.49	0.23	0.46
(2,176)	1:114:A:GLU:HB2	1:183:A:ILE:HD11	7	0.49	0.23	0.46
(2,176)	1:114:A:GLU:HB2	1:183:A:ILE:HD13	7	0.49	0.23	0.46
(2,176)	1:114:A:GLU:HB2	1:183:A:ILE:HD12	7	0.49	0.23	0.46
(2,227)	1:173:A:LEU:HD23	1:113:A:LEU:HD13	7	0.46	0.43	0.3
(2,227)	1:173:A:LEU:HD23	1:113:A:LEU:HD11	7	0.46	0.43	0.3
(2,227)	1:173:A:LEU:HD12	1:113:A:LEU:HD21	7	0.46	0.43	0.3
(2,227)	1:173:A:LEU:HD13	1:113:A:LEU:HD23	7	0.46	0.43	0.3
(2,227)	1:173:A:LEU:HD12	1:113:A:LEU:HD22	7	0.46	0.43	0.3
(2,227)	1:173:A:LEU:HD23	1:113:A:LEU:HD12	7	0.46	0.43	0.3
(1,1249)	1:151:A:SER:H	1:151:A:SER:HB2	7	0.43	0.04	0.45
(2,177)	1:168:A:GLN:HB2	1:158:A:PRO:HB3	7	0.28	0.16	0.23
(2,177)	1:168:A:GLN:HB3	1:158:A:PRO:HB3	7	0.28	0.16	0.23
(1,1070)	1:161:A:PHE:H	1:160:A:ASP:HB3	7	0.26	0.3	0.13
(1,418)	1:119:A:ILE:HB	1:127:A:LEU:HD11	7	0.24	0.05	0.24
(1,418)	1:119:A:ILE:HB	1:127:A:LEU:HD12	7	0.24	0.05	0.24
(1,418)	1:119:A:ILE:HB	1:127:A:LEU:HD13	7	0.24	0.05	0.24
(1,519)	1:144:A:GLU:HB2	1:136:A:VAL:HG13	7	0.2	0.06	0.2
(1,519)	1:144:A:GLU:HB2	1:136:A:VAL:HG11	7	0.2	0.06	0.2
(1,519)	1:144:A:GLU:HB2	1:136:A:VAL:HG12	7	0.2	0.06	0.2
(1,164)	1:123:A:GLU:HA	1:127:A:LEU:HD13	7	0.19	0.01	0.19
(1,164)	1:123:A:GLU:HA	1:127:A:LEU:HD11	7	0.19	0.01	0.19
(1,164)	1:123:A:GLU:HA	1:127:A:LEU:HD12	7	0.19	0.01	0.19
(2,84)	1:165:A:LYS:HE2	1:160:A:ASP:HA	7	0.17	0.04	0.17
(2,173)	1:110:A:MET:HB2	1:111:A:VAL:HA	7	0.17	0.04	0.17
(1,924)	1:183:A:ILE:HA	1:183:A:ILE:HD12	7	0.14	0.03	0.13
(1,924)	1:183:A:ILE:HA	1:183:A:ILE:HD11	7	0.14	0.03	0.13
(1,924)	1:183:A:ILE:HA	1:183:A:ILE:HD13	7	0.14	0.03	0.13
(2,15)	1:169:A:VAL:HA	1:169:A:VAL:HG22	7	0.12	0.01	0.13
(2,15)	1:169:A:VAL:HA	1:169:A:VAL:HG21	7	0.12	0.01	0.13
(2,15)	1:169:A:VAL:HA	1:169:A:VAL:HG23	7	0.12	0.01	0.13
(1,1228)	1:179:A:HIS:H	1:177:A:GLY:HA3	7	0.12	0.02	0.11
(2,153)	1:168:A:GLN:HG2	1:168:A:GLN:HA	7	0.12	0.02	0.11
(2,153)	1:168:A:GLN:HG3	1:168:A:GLN:HA	7	0.12	0.02	0.11
(2,253)	1:138:A:LYS:HE2	1:138:A:LYS:HG3	7	0.12	0.02	0.11
(1,764)	1:114:A:GLU:H	1:113:A:LEU:HD23	6	1.66	0.83	1.88
(1,764)	1:114:A:GLU:H	1:113:A:LEU:HD22	6	1.66	0.83	1.88
(1,764)	1:114:A:GLU:H	1:113:A:LEU:HD21	6	1.66	0.83	1.88

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,801)	1:140:A:THR:HG21	1:141:A:ARG:HD3	6	1.54	0.68	1.66
(1,801)	1:140:A:THR:HG23	1:141:A:ARG:HD3	6	1.54	0.68	1.66
(1,801)	1:140:A:THR:HG22	1:141:A:ARG:HD3	6	1.54	0.68	1.66
(1,240)	1:135:A:GLN:HA	1:147:A:VAL:HG21	6	0.6	0.06	0.6
(1,240)	1:135:A:GLN:HA	1:147:A:VAL:HG23	6	0.6	0.06	0.6
(1,240)	1:135:A:GLN:HA	1:147:A:VAL:HG22	6	0.6	0.06	0.6
(1,721)	1:197:A:LEU:HD21	1:175:A:PHE:H	6	0.44	0.16	0.48
(1,721)	1:197:A:LEU:HD22	1:175:A:PHE:H	6	0.44	0.16	0.48
(1,721)	1:197:A:LEU:HD23	1:175:A:PHE:H	6	0.44	0.16	0.48
(1,496)	1:117:A:MET:HB3	1:118:A:THR:H	6	0.42	0.14	0.5
(1,503)	1:139:A:MET:HB2	1:145:A:PHE:HB2	6	0.32	0.35	0.17
(1,1128)	1:110:A:MET:H	1:111:A:VAL:HG12	6	0.29	0.35	0.14
(1,1128)	1:110:A:MET:H	1:111:A:VAL:HG11	6	0.29	0.35	0.14
(1,1128)	1:110:A:MET:H	1:111:A:VAL:HG13	6	0.29	0.35	0.14
(2,74)	1:145:A:PHE:HB2	1:147:A:VAL:HG22	6	0.25	0.05	0.24
(2,74)	1:145:A:PHE:HB2	1:147:A:VAL:HG21	6	0.25	0.05	0.24
(2,74)	1:145:A:PHE:HB2	1:147:A:VAL:HG23	6	0.25	0.05	0.24
(1,921)	1:180:A:LEU:HD11	1:183:A:ILE:HD13	6	0.2	0.05	0.19
(1,921)	1:180:A:LEU:HD12	1:183:A:ILE:HD13	6	0.2	0.05	0.19
(1,921)	1:180:A:LEU:HD13	1:183:A:ILE:HD12	6	0.2	0.05	0.19
(1,921)	1:180:A:LEU:HD11	1:183:A:ILE:HD11	6	0.2	0.05	0.19
(1,921)	1:180:A:LEU:HD13	1:183:A:ILE:HD13	6	0.2	0.05	0.19
(1,35)	1:131:A:THR:HB	1:133:A:TYR:HD2	6	0.17	0.06	0.18
(2,73)	1:144:A:GLU:HA	1:134:A:ARG:HD3	6	0.16	0.03	0.18
(1,364)	1:145:A:PHE:H	1:134:A:ARG:HD3	6	0.16	0.03	0.15
(1,159)	1:123:A:GLU:HA	1:127:A:LEU:H	6	0.13	0.01	0.14
(1,59)	1:162:A:PRO:HA	1:162:A:PRO:HD2	6	0.1	0.0	0.11
(1,727)	1:197:A:LEU:HA	1:197:A:LEU:HD21	5	0.61	0.46	0.44
(1,727)	1:197:A:LEU:HA	1:197:A:LEU:HD22	5	0.61	0.46	0.44
(1,727)	1:197:A:LEU:HA	1:197:A:LEU:HD23	5	0.61	0.46	0.44
(1,673)	1:173:A:LEU:HD12	1:180:A:LEU:HD11	5	0.57	0.92	0.12
(1,673)	1:173:A:LEU:HD13	1:180:A:LEU:HD12	5	0.57	0.92	0.12
(1,673)	1:173:A:LEU:HD11	1:180:A:LEU:HD13	5	0.57	0.92	0.12
(1,673)	1:173:A:LEU:HD11	1:180:A:LEU:HD12	5	0.57	0.92	0.12
(2,169)	1:153:A:GLU:HG3	1:186:A:MET:HG3	5	0.38	0.08	0.39
(1,844)	1:139:A:MET:HB3	1:136:A:VAL:HG11	5	0.33	0.39	0.16
(1,844)	1:139:A:MET:HB3	1:136:A:VAL:HG12	5	0.33	0.39	0.16
(1,844)	1:139:A:MET:HB3	1:136:A:VAL:HG13	5	0.33	0.39	0.16
(1,1176)	1:114:A:GLU:H	1:114:A:GLU:HB2	5	0.29	0.21	0.25
(2,208)	1:126:A:LYS:HD2	1:122:A:ASN:HB3	5	0.28	0.26	0.19
(1,1257)	1:143:A:GLY:H	1:142:A:PRO:HB2	5	0.23	0.06	0.25
(1,793)	1:182:A:THR:HG22	1:194:A:PHE:H	5	0.21	0.1	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,793)	1:182:A:THR:HG21	1:194:A:PHE:H	5	0.21	0.1	0.15
(1,457)	1:187:A:GLU:HG3	1:186:A:MET:HB2	5	0.15	0.04	0.14
(1,625)	1:119:A:ILE:HG13	1:117:A:MET:HG3	5	0.15	0.04	0.14
(1,652)	1:183:A:ILE:HG13	1:180:A:LEU:HG	5	0.15	0.03	0.14
(1,36)	1:118:A:THR:HB	1:117:A:MET:HG3	5	0.15	0.04	0.15
(1,1002)	1:165:A:LYS:H	1:166:A:GLU:HG2	5	0.13	0.02	0.12
(1,693)	1:128:A:LEU:HD11	1:124:A:MET:HB2	4	1.02	0.33	1.16
(1,693)	1:128:A:LEU:HD13	1:124:A:MET:HB2	4	1.02	0.33	1.16
(1,93)	1:111:A:VAL:HA	1:111:A:VAL:HG23	4	0.91	0.45	1.16
(1,68)	1:158:A:PRO:HA	1:159:A:PHE:HB2	4	0.62	0.12	0.58
(1,1057)	1:111:A:VAL:H	1:111:A:VAL:HG11	4	0.5	0.25	0.52
(1,1057)	1:111:A:VAL:H	1:111:A:VAL:HG12	4	0.5	0.25	0.52
(2,213)	1:162:A:PRO:HG3	1:161:A:PHE:HD2	4	0.32	0.18	0.29
(2,213)	1:162:A:PRO:HG3	1:161:A:PHE:HD1	4	0.32	0.18	0.29
(2,213)	1:162:A:PRO:HG2	1:161:A:PHE:HD2	4	0.32	0.18	0.29
(1,437)	1:189:A:ASN:HA	1:189:A:ASN:HB3	4	0.32	0.21	0.32
(1,1156)	1:168:A:GLN:H	1:168:A:GLN:HB3	4	0.31	0.23	0.22
(2,63)	1:171:A:ALA:H	1:170:A:ARG:HD2	4	0.28	0.23	0.16
(2,63)	1:170:A:ARG:HD3	1:171:A:ALA:H	4	0.28	0.23	0.16
(2,122)	1:123:A:GLU:HG2	1:127:A:LEU:HD13	4	0.28	0.16	0.24
(2,122)	1:123:A:GLU:HG2	1:127:A:LEU:HD12	4	0.28	0.16	0.24
(2,181)	1:117:A:MET:HG2	1:113:A:LEU:HD12	4	0.26	0.12	0.22
(2,181)	1:117:A:MET:HG2	1:113:A:LEU:HD13	4	0.26	0.12	0.22
(2,181)	1:117:A:MET:HG2	1:113:A:LEU:HD21	4	0.26	0.12	0.22
(2,181)	1:117:A:MET:HG2	1:113:A:LEU:HD11	4	0.26	0.12	0.22
(1,13)	1:194:A:PHE:HD2	1:194:A:PHE:HA	4	0.23	0.07	0.26
(2,53)	1:177:A:GLY:HA2	1:178:A:ASP:HB3	4	0.18	0.05	0.18
(2,53)	1:177:A:GLY:HA2	1:178:A:ASP:HB2	4	0.18	0.05	0.18
(1,194)	1:145:A:PHE:HA	1:136:A:VAL:HG11	4	0.16	0.03	0.16
(1,194)	1:145:A:PHE:HA	1:136:A:VAL:HG13	4	0.16	0.03	0.16
(1,194)	1:145:A:PHE:HA	1:136:A:VAL:HG12	4	0.16	0.03	0.16
(1,841)	1:136:A:VAL:HG13	1:140:A:THR:H	4	0.16	0.02	0.16
(1,841)	1:136:A:VAL:HG12	1:140:A:THR:H	4	0.16	0.02	0.16
(1,150)	1:136:A:VAL:HA	1:146:A:THR:HG21	4	0.15	0.02	0.16
(1,150)	1:136:A:VAL:HA	1:146:A:THR:HG22	4	0.15	0.02	0.16
(1,38)	1:118:A:THR:HB	1:179:A:HIS:HB2	4	0.12	0.02	0.12
(1,794)	1:182:A:THR:HB	1:182:A:THR:HG21	4	0.12	0.01	0.11
(1,794)	1:182:A:THR:HB	1:182:A:THR:HG23	4	0.12	0.01	0.11
(1,794)	1:182:A:THR:HB	1:182:A:THR:HG22	4	0.12	0.01	0.11
(1,1141)	1:155:A:ILE:H	1:143:A:GLY:H	4	0.12	0.02	0.11
(1,1010)	1:175:A:PHE:H	1:176:A:ASP:H	4	0.11	0.01	0.12
(1,1219)	1:164:A:SER:H	1:162:A:PRO:HG2	4	0.11	0.01	0.11

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,909)	1:152:A:ILE:HD13	1:124:A:MET:HB2	3	0.93	0.06	0.93
(1,909)	1:152:A:ILE:HD12	1:124:A:MET:HB2	3	0.93	0.06	0.93
(1,909)	1:152:A:ILE:HD11	1:124:A:MET:HB2	3	0.93	0.06	0.93
(1,479)	1:169:A:VAL:HB	1:156:A:ARG:HB3	3	0.7	0.23	0.72
(1,1216)	1:177:A:GLY:H	1:175:A:PHE:HB3	3	0.52	0.21	0.48
(1,849)	1:183:A:ILE:HG22	1:113:A:LEU:HB3	3	0.47	0.25	0.64
(1,849)	1:183:A:ILE:HG23	1:113:A:LEU:HB3	3	0.47	0.25	0.64
(1,1135)	1:152:A:ILE:H	1:175:A:PHE:HD2	3	0.27	0.05	0.24
(1,575)	1:170:A:ARG:HB3	1:169:A:VAL:HG12	3	0.23	0.08	0.25
(1,575)	1:170:A:ARG:HB3	1:169:A:VAL:HG11	3	0.23	0.08	0.25
(1,610)	1:119:A:ILE:HG12	1:180:A:LEU:HD23	3	0.19	0.03	0.2
(1,610)	1:119:A:ILE:HG12	1:180:A:LEU:HD22	3	0.19	0.03	0.2
(1,1026)	1:127:A:LEU:H	1:128:A:LEU:HD11	3	0.18	0.04	0.15
(1,1026)	1:127:A:LEU:H	1:128:A:LEU:HD12	3	0.18	0.04	0.15
(1,889)	1:119:A:ILE:H	1:119:A:ILE:HG22	3	0.17	0.04	0.19
(1,889)	1:119:A:ILE:H	1:119:A:ILE:HG23	3	0.17	0.04	0.19
(1,1076)	1:170:A:ARG:H	1:169:A:VAL:H	3	0.17	0.04	0.2
(2,269)	1:113:A:LEU:HD21	1:113:A:LEU:HB3	3	0.16	0.05	0.15
(2,269)	1:113:A:LEU:HD13	1:113:A:LEU:HB2	3	0.16	0.05	0.15
(2,269)	1:113:A:LEU:HD13	1:113:A:LEU:HB3	3	0.16	0.05	0.15
(1,322)	1:185:A:ASN:HA	1:169:A:VAL:HG13	3	0.15	0.03	0.14
(1,322)	1:185:A:ASN:HA	1:169:A:VAL:HG11	3	0.15	0.03	0.14
(2,198)	1:154:A:MET:HG2	1:154:A:MET:H	3	0.14	0.04	0.13
(1,804)	1:136:A:VAL:HG21	1:145:A:PHE:H	3	0.13	0.02	0.14
(1,804)	1:136:A:VAL:HG22	1:145:A:PHE:H	3	0.13	0.02	0.14
(1,998)	1:186:A:MET:H	1:188:A:ASN:H	3	0.13	0.01	0.13
(1,1060)	1:160:A:ASP:H	1:159:A:PHE:HD2	3	0.13	0.01	0.13
(1,1060)	1:160:A:ASP:H	1:159:A:PHE:HD1	3	0.13	0.01	0.13
(1,501)	1:144:A:GLU:HB3	1:133:A:TYR:HA	3	0.13	0.02	0.12
(1,1224)	1:163:A:ASP:H	1:161:A:PHE:HA	3	0.11	0.01	0.12
(1,294)	1:160:A:ASP:HA	1:161:A:PHE:HB2	3	0.11	0.0	0.11
(1,435)	1:189:A:ASN:HB3	1:187:A:GLU:H	2	1.46	0.02	1.46
(1,63)	1:164:A:SER:HB2	1:163:A:ASP:HB3	2	1.06	0.21	1.06
(1,979)	1:178:A:ASP:H	1:178:A:ASP:HB2	2	0.9	0.04	0.9
(1,436)	1:189:A:ASN:H	1:189:A:ASN:HB3	2	0.72	0.03	0.72
(2,200)	1:154:A:MET:HG2	1:173:A:LEU:HD21	2	0.57	0.2	0.57
(2,200)	1:154:A:MET:HG3	1:173:A:LEU:HD22	2	0.57	0.2	0.57
(2,202)	1:168:A:GLN:HB2	1:155:A:ILE:HD11	2	0.55	0.36	0.55
(2,202)	1:168:A:GLN:HB2	1:155:A:ILE:HD12	2	0.55	0.36	0.55
(1,775)	1:184:A:VAL:HG23	1:194:A:PHE:H	2	0.41	0.19	0.41
(1,865)	1:183:A:ILE:HG22	1:192:A:PHE:HE1	2	0.38	0.17	0.38
(1,865)	1:183:A:ILE:HG23	1:192:A:PHE:HE1	2	0.38	0.17	0.38

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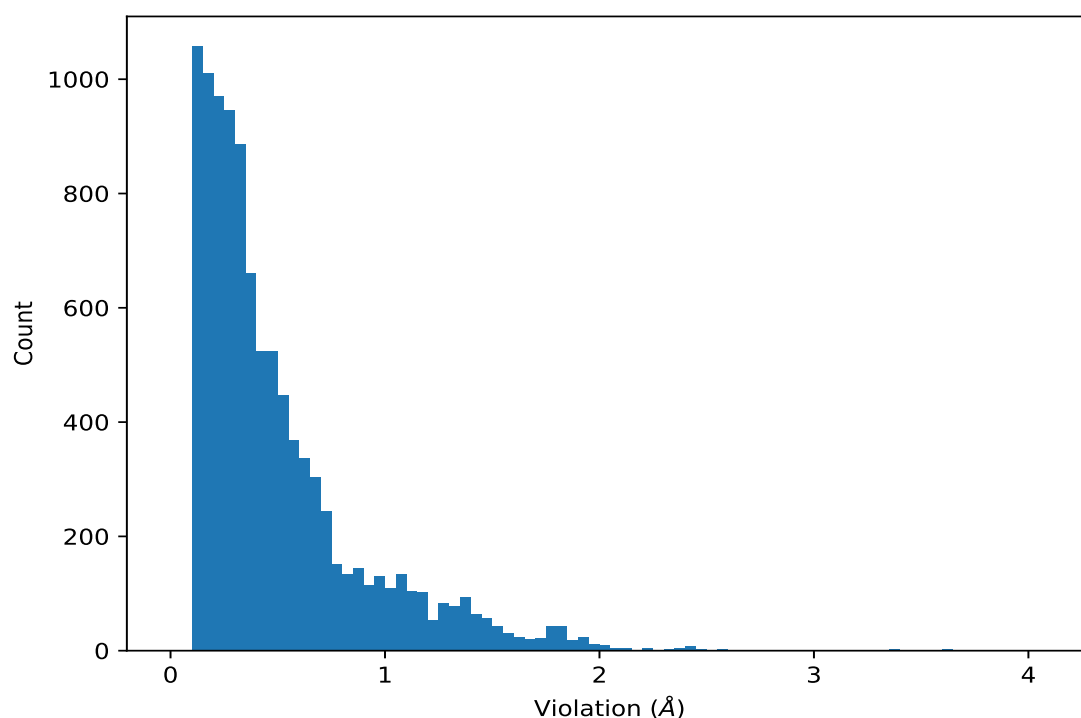
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,600)	1:168:A:GLN:HB2	1:155:A:ILE:HG21	2	0.37	0.25	0.37
(1,600)	1:168:A:GLN:HB2	1:155:A:ILE:HG22	2	0.37	0.25	0.37
(2,32)	1:122:A:ASN:HA	1:125:A:VAL:HG21	2	0.33	0.17	0.33
(2,32)	1:122:A:ASN:HA	1:125:A:VAL:HG22	2	0.33	0.17	0.33
(1,439)	1:189:A:ASN:HB2	1:184:A:VAL:HG12	2	0.32	0.09	0.32
(1,439)	1:189:A:ASN:HB2	1:184:A:VAL:HG11	2	0.32	0.09	0.32
(2,97)	1:179:A:HIS:H	1:178:A:ASP:HB2	2	0.32	0.04	0.32
(2,97)	1:178:A:ASP:HB3	1:179:A:HIS:H	2	0.32	0.04	0.32
(1,317)	1:114:A:GLU:HA	1:183:A:ILE:HD12	2	0.3	0.13	0.3
(1,317)	1:114:A:GLU:HA	1:183:A:ILE:HD13	2	0.3	0.13	0.3
(1,52)	1:151:A:SER:HB2	1:174:A:THR:HG22	2	0.28	0.02	0.28
(1,52)	1:151:A:SER:HB2	1:174:A:THR:HG21	2	0.28	0.02	0.28
(1,533)	1:158:A:PRO:HB3	1:169:A:VAL:H	2	0.24	0.03	0.24
(2,231)	1:141:A:ARG:HG3	1:139:A:MET:HA	2	0.23	0.07	0.23
(1,1215)	1:122:A:ASN:H	1:121:A:LYS:HB3	2	0.22	0.04	0.22
(1,1201)	1:189:A:ASN:H	1:185:A:ASN:HB2	2	0.16	0.01	0.16
(1,469)	1:187:A:GLU:HG2	1:169:A:VAL:HG12	2	0.14	0.02	0.14
(1,469)	1:187:A:GLU:HG2	1:169:A:VAL:HG13	2	0.14	0.02	0.14
(1,561)	1:156:A:ARG:HB2	1:169:A:VAL:HG13	2	0.14	0.01	0.14
(1,561)	1:156:A:ARG:HB2	1:169:A:VAL:HG11	2	0.14	0.01	0.14
(1,981)	1:153:A:GLU:H	1:146:A:THR:HB	2	0.12	0.01	0.12
(1,1159)	1:159:A:PHE:H	1:158:A:PRO:HB2	2	0.12	0.01	0.12
(2,127)	1:123:A:GLU:HG3	1:120:A:SER:H	2	0.12	0.02	0.12
(1,45)	1:128:A:LEU:H	1:125:A:VAL:HA	2	0.12	0.0	0.12
(1,885)	1:152:A:ILE:HG22	1:152:A:ILE:HD11	2	0.11	0.01	0.11
(1,1211)	1:122:A:ASN:H	1:122:A:ASN:HA	2	0.1	0.0	0.1

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints ⓘ

9.5.1 Histogram : Distribution of distance violations ⓘ

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)
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD23	6	4.07
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD21	18	3.86
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD23	12	3.64
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD23	9	3.61
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB3	19	3.55
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB3	15	3.53
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD13	6	3.36
(1,678)	1:173:A:LEU:HD12	1:183:A:ILE:HA	6	3.35
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD23	6	3.32
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD22	16	3.28
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB2	13	3.21
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB3	1	3.06
(1,874)	1:183:A:ILE:HG21	1:113:A:LEU:HD22	6	3.03
(1,679)	1:173:A:LEU:HD22	1:152:A:ILE:HG23	6	2.94
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB2	5	2.82
(1,672)	1:173:A:LEU:HD13	1:183:A:ILE:HD12	6	2.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,689)	1:197:A:LEU:HD12	1:174:A:THR:HA	8	2.66
(1,689)	1:197:A:LEU:HD13	1:174:A:THR:HA	16	2.6
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG21	14	2.58
(1,689)	1:197:A:LEU:HD12	1:174:A:THR:HA	6	2.58
(1,689)	1:197:A:LEU:HD13	1:174:A:THR:HA	3	2.55
(1,689)	1:197:A:LEU:HD11	1:174:A:THR:HA	2	2.54
(1,874)	1:183:A:ILE:HG23	1:113:A:LEU:HD21	4	2.48
(1,689)	1:197:A:LEU:HD13	1:174:A:THR:HA	1	2.47
(1,764)	1:114:A:GLU:H	1:113:A:LEU:HD21	16	2.44
(1,874)	1:183:A:ILE:HG23	1:113:A:LEU:HD21	7	2.43
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB2	10	2.42
(1,673)	1:173:A:LEU:HD11	1:180:A:LEU:HD13	6	2.42
(1,689)	1:197:A:LEU:HD12	1:174:A:THR:HA	9	2.4
(1,689)	1:197:A:LEU:HD12	1:174:A:THR:HA	18	2.4
(1,684)	1:113:A:LEU:HD21	1:183:A:ILE:HD12	6	2.4
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD11	18	2.39
(1,689)	1:197:A:LEU:HD13	1:174:A:THR:HA	7	2.37
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD22	6	2.37
(1,674)	1:173:A:LEU:HD22	1:153:A:GLU:H	6	2.37
(1,764)	1:114:A:GLU:H	1:113:A:LEU:HD22	9	2.35
(1,764)	1:114:A:GLU:H	1:113:A:LEU:HD22	12	2.33
(1,912)	1:152:A:ILE:HD12	1:173:A:LEU:HD22	6	2.31
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG21	19	2.24
(1,689)	1:197:A:LEU:HD13	1:174:A:THR:HA	10	2.24
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	1	2.23
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	13	2.23
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	6	2.22
(1,801)	1:140:A:THR:HG23	1:141:A:ARG:HD3	4	2.15
(1,761)	1:147:A:VAL:HG21	1:135:A:GLN:H	3	2.14
(1,874)	1:183:A:ILE:HG21	1:113:A:LEU:HD22	1	2.13
(1,801)	1:140:A:THR:HG21	1:141:A:ARG:HD3	7	2.13
(1,761)	1:147:A:VAL:HG22	1:135:A:GLN:H	8	2.11
(1,675)	1:173:A:LEU:HD21	1:154:A:MET:H	6	2.08
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD13	2	2.07
(1,684)	1:113:A:LEU:HD22	1:183:A:ILE:HD11	18	2.06
(1,761)	1:147:A:VAL:HG22	1:135:A:GLN:H	19	2.05
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	17	2.04
(1,761)	1:147:A:VAL:HG23	1:135:A:GLN:H	7	2.04
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG22	12	2.04
(1,874)	1:183:A:ILE:HG22	1:113:A:LEU:HD23	8	2.03
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG21	14	2.03
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	20	2.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG23	16	2.02
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD11	5	2.01
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG23	14	2.0
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG22	11	2.0
(1,761)	1:147:A:VAL:HG23	1:135:A:GLN:H	6	1.99
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	16	1.98
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG21	17	1.98
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG23	19	1.98
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG23	20	1.98
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG21	2	1.97
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG23	10	1.97
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	11	1.95
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG21	13	1.95
(1,754)	1:131:A:THR:HG22	1:127:A:LEU:HB2	4	1.95
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	4	1.95
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	7	1.94
(1,761)	1:147:A:VAL:HG22	1:135:A:GLN:H	13	1.94
(1,754)	1:131:A:THR:HG22	1:127:A:LEU:HB2	5	1.94
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG23	8	1.94
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG22	9	1.94
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG21	15	1.94
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	7	1.94
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG22	18	1.93
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	7	1.92
(1,795)	1:182:A:THR:HG23	1:193:A:GLY:HA3	16	1.92
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD12	3	1.92
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG21	2	1.91
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG23	6	1.91
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG21	11	1.91
(1,754)	1:131:A:THR:HG21	1:127:A:LEU:HB2	18	1.91
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG22	3	1.91
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG21	5	1.91
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG23	3	1.9
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG23	9	1.9
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG21	18	1.9
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG22	20	1.9
(1,754)	1:131:A:THR:HG23	1:127:A:LEU:HB2	11	1.9
(1,754)	1:131:A:THR:HG22	1:127:A:LEU:HB2	17	1.9
(1,754)	1:131:A:THR:HG23	1:127:A:LEU:HB2	20	1.9
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	15	1.89
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG21	4	1.89
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG23	15	1.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,795)	1:182:A:THR:HG22	1:193:A:GLY:HA3	1	1.89
(1,252)	1:153:A:GLU:HA	1:173:A:LEU:HD21	6	1.89
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG21	12	1.88
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD11	18	1.88
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	10	1.87
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG21	7	1.87
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG23	13	1.86
(1,754)	1:131:A:THR:HG21	1:127:A:LEU:HB2	3	1.86
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	18	1.85
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG21	17	1.85
(1,754)	1:131:A:THR:HG22	1:127:A:LEU:HB2	2	1.85
(1,754)	1:131:A:THR:HG23	1:127:A:LEU:HB2	19	1.85
(1,689)	1:197:A:LEU:HD12	1:174:A:THR:HA	4	1.85
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	4	1.85
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	11	1.85
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG21	5	1.84
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG22	19	1.84
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG21	7	1.84
(1,754)	1:131:A:THR:HG21	1:127:A:LEU:HB2	14	1.84
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD11	9	1.84
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	3	1.84
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	15	1.84
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	10	1.83
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG23	10	1.83
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG22	16	1.83
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG21	6	1.83
(1,754)	1:131:A:THR:HG22	1:127:A:LEU:HB2	12	1.83
(1,722)	1:127:A:LEU:HD13	1:123:A:GLU:HB2	13	1.83
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD11	17	1.83
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	4	1.83
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	10	1.83
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	3	1.82
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	2	1.82
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD13	19	1.82
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	2	1.82
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	5	1.82
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	2	1.82
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	9	1.82
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	16	1.82
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	4	1.81
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG22	8	1.81
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG23	8	1.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,754)	1:131:A:THR:HG23	1:127:A:LEU:HB2	13	1.81
(1,722)	1:127:A:LEU:HD12	1:123:A:GLU:HB2	14	1.81
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	17	1.81
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	20	1.81
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	5	1.81
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	8	1.81
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	14	1.81
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	19	1.81
(1,754)	1:131:A:THR:HG23	1:127:A:LEU:HB2	8	1.8
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD12	19	1.8
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	6	1.8
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	11	1.8
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	13	1.8
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	18	1.8
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	19	1.8
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	20	1.8
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG23	19	1.79
(1,754)	1:131:A:THR:HG23	1:127:A:LEU:HB2	7	1.79
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD13	7	1.79
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD13	12	1.79
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	1	1.79
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	3	1.79
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	12	1.79
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	15	1.79
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	18	1.79
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	1	1.79
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	12	1.79
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	1	1.78
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG13	10	1.78
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD23	4	1.78
(1,754)	1:131:A:THR:HG22	1:127:A:LEU:HB2	15	1.78
(1,754)	1:131:A:THR:HG22	1:127:A:LEU:HB2	16	1.78
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD12	11	1.78
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD13	16	1.78
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD12	20	1.78
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	14	1.78
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	16	1.78
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD11	13	1.78
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	5	1.77
(1,754)	1:131:A:THR:HG23	1:127:A:LEU:HB2	1	1.77
(1,754)	1:131:A:THR:HG23	1:127:A:LEU:HB2	6	1.77
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD13	6	1.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	7	1.77
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	8	1.77
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	9	1.77
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	17	1.77
(1,722)	1:127:A:LEU:HD13	1:123:A:GLU:HB2	9	1.76
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD13	8	1.76
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD13	13	1.76
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD13	15	1.76
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	13	1.76
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	19	1.76
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD11	18	1.76
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	18	1.75
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD13	19	1.75
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG22	3	1.75
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD12	15	1.75
(1,497)	1:138:A:LYS:HB3	1:140:A:THR:HB	7	1.75
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	8	1.74
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	13	1.74
(1,722)	1:127:A:LEU:HD11	1:123:A:GLU:HB2	10	1.74
(1,722)	1:127:A:LEU:HD12	1:123:A:GLU:HB2	12	1.74
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	9	1.73
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	14	1.73
(1,754)	1:131:A:THR:HG23	1:127:A:LEU:HB2	10	1.73
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	6	1.73
(1,669)	1:134:A:ARG:HG2	1:133:A:TYR:H	10	1.73
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	15	1.72
(1,801)	1:140:A:THR:HG23	1:141:A:ARG:HD3	6	1.71
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD23	7	1.71
(1,688)	1:197:A:LEU:HD12	1:175:A:PHE:H	8	1.71
(1,670)	1:173:A:LEU:HD11	1:175:A:PHE:HD1	6	1.71
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	6	1.7
(1,754)	1:131:A:THR:HG21	1:127:A:LEU:HB2	9	1.7
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	2	1.7
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	8	1.7
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	13	1.7
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD12	12	1.7
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD12	10	1.7
(1,795)	1:182:A:THR:HG23	1:193:A:GLY:HA3	14	1.69
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	7	1.69
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	19	1.69
(2,272)	1:136:A:VAL:HG21	1:137:A:SER:HB3	7	1.68
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD22	20	1.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	14	1.68
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD11	1	1.68
(2,129)	1:153:A:GLU:HG2	1:173:A:LEU:HD22	19	1.67
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	12	1.67
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	18	1.67
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	20	1.67
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	1	1.67
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	19	1.67
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD13	10	1.66
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD12	16	1.66
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	5	1.65
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	6	1.65
(1,688)	1:197:A:LEU:HD12	1:175:A:PHE:H	6	1.65
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD13	15	1.65
(1,48)	1:125:A:VAL:HA	1:126:A:LYS:HG2	1	1.65
(1,722)	1:127:A:LEU:HD11	1:123:A:GLU:HB2	15	1.64
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	3	1.64
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	9	1.64
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	12	1.64
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	17	1.64
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD12	18	1.64
(2,129)	1:153:A:GLU:HG2	1:173:A:LEU:HD22	11	1.63
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD11	14	1.63
(2,271)	1:146:A:THR:HG21	1:137:A:SER:HB2	7	1.62
(2,151)	1:168:A:GLN:HG3	1:169:A:VAL:HG23	4	1.62
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	3	1.62
(1,801)	1:140:A:THR:HG21	1:141:A:ARG:HD3	13	1.62
(1,722)	1:127:A:LEU:HD11	1:123:A:GLU:HB2	3	1.62
(1,688)	1:197:A:LEU:HD11	1:175:A:PHE:H	2	1.62
(1,688)	1:197:A:LEU:HD13	1:175:A:PHE:H	7	1.62
(2,246)	1:126:A:LYS:HG3	1:127:A:LEU:HD13	1	1.61
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD12	9	1.61
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD11	8	1.61
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	16	1.61
(2,116)	1:122:A:ASN:HB2	1:123:A:GLU:HB3	20	1.6
(1,688)	1:197:A:LEU:HD13	1:175:A:PHE:H	16	1.6
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD13	16	1.6
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	14	1.6
(1,795)	1:182:A:THR:HG21	1:193:A:GLY:HA3	6	1.59
(1,722)	1:127:A:LEU:HD12	1:123:A:GLU:HB2	18	1.59
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	1	1.59
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	7	1.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	8	1.59
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	16	1.59
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	13	1.59
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD22	1	1.58
(2,71)	1:141:A:ARG:HA	1:141:A:ARG:HD3	6	1.58
(1,795)	1:182:A:THR:HG21	1:193:A:GLY:HA3	4	1.58
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	4	1.58
(1,688)	1:197:A:LEU:HD13	1:175:A:PHE:H	3	1.58
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	13	1.58
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	14	1.58
(2,64)	1:170:A:ARG:HD3	1:186:A:MET:HG2	19	1.57
(1,722)	1:127:A:LEU:HD11	1:123:A:GLU:HB2	5	1.57
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	10	1.57
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD11	14	1.57
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	12	1.57
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	10	1.56
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD22	18	1.56
(1,722)	1:127:A:LEU:HD12	1:123:A:GLU:HB2	11	1.56
(1,722)	1:127:A:LEU:HD13	1:123:A:GLU:HB2	19	1.56
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	1	1.56
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	11	1.56
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	15	1.56
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD11	6	1.56
(1,361)	1:167:A:GLY:HA2	1:158:A:PRO:HB2	4	1.56
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD23	5	1.55
(2,71)	1:141:A:ARG:HA	1:141:A:ARG:HD3	13	1.55
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	6	1.55
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD21	16	1.54
(1,723)	1:127:A:LEU:HD13	1:120:A:SER:H	13	1.54
(1,723)	1:127:A:LEU:HD12	1:120:A:SER:H	14	1.54
(1,722)	1:127:A:LEU:HD11	1:123:A:GLU:HB2	7	1.54
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD12	20	1.54
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	15	1.54
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	19	1.54
(1,2)	1:182:A:THR:HB	1:193:A:GLY:HA3	20	1.54
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	15	1.53
(1,795)	1:182:A:THR:HG22	1:193:A:GLY:HA3	5	1.53
(1,722)	1:127:A:LEU:HD12	1:123:A:GLU:HB2	8	1.53
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD11	9	1.53
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	3	1.53
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD12	16	1.53
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD21	18	1.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	6	1.52
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	10	1.52
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	8	1.52
(1,722)	1:127:A:LEU:HD11	1:123:A:GLU:HB2	6	1.51
(1,722)	1:127:A:LEU:HD13	1:123:A:GLU:HB2	16	1.51
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD12	4	1.51
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD11	7	1.51
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD12	12	1.51
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	9	1.51
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	10	1.51
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD12	1	1.51
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD22	11	1.51
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	14	1.5
(2,227)	1:173:A:LEU:HD23	1:113:A:LEU:HD12	18	1.5
(2,183)	1:121:A:LYS:HB3	1:122:A:ASN:HB2	16	1.5
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	10	1.5
(1,946)	1:155:A:ILE:HD13	1:139:A:MET:HB3	15	1.5
(1,801)	1:140:A:THR:HG21	1:141:A:ARG:HD3	1	1.5
(1,795)	1:182:A:THR:HG21	1:193:A:GLY:HA3	17	1.5
(1,727)	1:197:A:LEU:HA	1:197:A:LEU:HD21	4	1.5
(1,723)	1:127:A:LEU:HD13	1:120:A:SER:H	9	1.5
(1,722)	1:127:A:LEU:HD13	1:123:A:GLU:HB2	4	1.5
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD12	1	1.5
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	7	1.5
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	19	1.5
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD22	4	1.5
(1,2)	1:182:A:THR:HB	1:193:A:GLY:HA3	16	1.5
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	5	1.49
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD21	12	1.49
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD23	15	1.49
(2,116)	1:122:A:ASN:HB2	1:123:A:GLU:HB3	19	1.49
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	9	1.49
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	20	1.49
(1,874)	1:183:A:ILE:HG21	1:113:A:LEU:HD23	18	1.49
(1,722)	1:127:A:LEU:HD12	1:123:A:GLU:HB2	2	1.49
(1,688)	1:197:A:LEU:HD13	1:175:A:PHE:H	1	1.49
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD11	15	1.49
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD22	20	1.49
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	16	1.48
(2,71)	1:141:A:ARG:HA	1:141:A:ARG:HD3	1	1.48
(1,946)	1:155:A:ILE:HD11	1:139:A:MET:HB3	8	1.48
(1,795)	1:182:A:THR:HG22	1:193:A:GLY:HA3	20	1.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,723)	1:127:A:LEU:HD12	1:120:A:SER:H	12	1.48
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD12	11	1.48
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	7	1.48
(1,488)	1:117:A:MET:HB2	1:114:A:GLU:H	10	1.48
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	6	1.48
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD22	5	1.48
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	1	1.47
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	8	1.47
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD22	10	1.47
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD22	17	1.47
(2,116)	1:122:A:ASN:HB2	1:123:A:GLU:HB3	2	1.47
(1,722)	1:127:A:LEU:HD11	1:123:A:GLU:HB2	17	1.47
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	3	1.47
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	13	1.47
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	18	1.47
(1,435)	1:189:A:ASN:HB3	1:187:A:GLU:H	10	1.47
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD22	15	1.47
(2,263)	1:147:A:VAL:HG23	1:146:A:THR:H	13	1.46
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	13	1.46
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	1	1.46
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	8	1.46
(2,116)	1:122:A:ASN:HB2	1:123:A:GLU:HB3	3	1.46
(2,64)	1:170:A:ARG:HD3	1:186:A:MET:HG2	10	1.46
(1,722)	1:127:A:LEU:HD12	1:123:A:GLU:HB2	20	1.46
(1,688)	1:197:A:LEU:HD12	1:175:A:PHE:H	9	1.46
(1,687)	1:197:A:LEU:HD11	1:176:A:ASP:HB3	2	1.46
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	2	1.46
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	5	1.46
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	9	1.46
(1,488)	1:117:A:MET:HB2	1:114:A:GLU:H	19	1.46
(2,282)	1:155:A:ILE:HG23	1:169:A:VAL:HG12	19	1.45
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	18	1.45
(1,688)	1:197:A:LEU:HD12	1:175:A:PHE:H	18	1.45
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	1	1.45
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	4	1.45
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	8	1.45
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	12	1.45
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD12	9	1.45
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD23	9	1.45
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD22	10	1.45
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD23	17	1.45
(2,271)	1:146:A:THR:HG22	1:137:A:SER:HB2	10	1.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD23	8	1.44
(2,116)	1:122:A:ASN:HB2	1:123:A:GLU:HB3	5	1.44
(1,1170)	1:174:A:THR:H	1:173:A:LEU:HD11	6	1.44
(1,764)	1:114:A:GLU:H	1:113:A:LEU:HD23	6	1.44
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	6	1.44
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD11	17	1.44
(1,435)	1:189:A:ASN:HB3	1:187:A:GLU:H	18	1.44
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD13	7	1.44
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD12	11	1.44
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD11	12	1.44
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD12	13	1.44
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD11	14	1.44
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD11	20	1.44
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD21	16	1.44
(1,2)	1:182:A:THR:HB	1:193:A:GLY:HA3	1	1.44
(1,2)	1:182:A:THR:HB	1:193:A:GLY:HA3	14	1.44
(2,263)	1:147:A:VAL:HG21	1:146:A:THR:H	7	1.43
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	11	1.43
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD21	7	1.43
(2,116)	1:122:A:ASN:HB2	1:123:A:GLU:HB3	15	1.43
(2,71)	1:141:A:ARG:HA	1:141:A:ARG:HD2	4	1.43
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	1	1.43
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	7	1.43
(1,946)	1:155:A:ILE:HD13	1:139:A:MET:HB3	7	1.43
(1,946)	1:155:A:ILE:HD12	1:139:A:MET:HB3	11	1.43
(1,723)	1:127:A:LEU:HD11	1:120:A:SER:H	10	1.43
(1,488)	1:117:A:MET:HB2	1:114:A:GLU:H	5	1.43
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	16	1.43
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	16	1.43
(1,353)	1:193:A:GLY:HA2	1:184:A:VAL:HG12	12	1.43
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD12	17	1.43
(1,2)	1:182:A:THR:HB	1:193:A:GLY:HA3	17	1.43
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG11	15	1.42
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	12	1.42
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	17	1.42
(1,688)	1:197:A:LEU:HD12	1:175:A:PHE:H	4	1.42
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	14	1.42
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD12	8	1.42
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD11	4	1.42
(1,81)	1:140:A:THR:HA	1:141:A:ARG:HG3	8	1.42
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD21	7	1.42
(1,2)	1:182:A:THR:HB	1:193:A:GLY:HA3	15	1.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	4	1.41
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	9	1.41
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	12	1.41
(2,71)	1:141:A:ARG:HA	1:141:A:ARG:HD2	7	1.41
(1,855)	1:130:A:ALA:HB2	1:129:A:GLU:HB3	19	1.41
(1,729)	1:125:A:VAL:HG13	1:129:A:GLU:HG2	16	1.41
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD13	14	1.41
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD11	2	1.41
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD12	6	1.41
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD22	2	1.41
(2,282)	1:155:A:ILE:HG22	1:169:A:VAL:HG13	5	1.4
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB3	8	1.4
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	14	1.4
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	19	1.4
(1,946)	1:155:A:ILE:HD12	1:139:A:MET:HB3	20	1.4
(1,855)	1:130:A:ALA:HB3	1:129:A:GLU:HB3	8	1.4
(1,729)	1:125:A:VAL:HG11	1:129:A:GLU:HG2	1	1.4
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	7	1.4
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD12	5	1.4
(1,81)	1:140:A:THR:HA	1:141:A:ARG:HG3	5	1.4
(1,2)	1:182:A:THR:HB	1:193:A:GLY:HA3	4	1.4
(2,263)	1:147:A:VAL:HG21	1:146:A:THR:H	6	1.39
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	20	1.39
(2,168)	1:186:A:MET:HG3	1:169:A:VAL:HG13	3	1.39
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB3	2	1.39
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD22	9	1.39
(2,116)	1:122:A:ASN:HB2	1:123:A:GLU:HB3	13	1.39
(2,87)	1:138:A:LYS:HE3	1:138:A:LYS:HB3	20	1.39
(1,855)	1:130:A:ALA:HB1	1:129:A:GLU:HB3	3	1.39
(1,855)	1:130:A:ALA:HB2	1:129:A:GLU:HB3	5	1.39
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD22	1	1.39
(1,729)	1:125:A:VAL:HG11	1:129:A:GLU:HG2	8	1.39
(1,729)	1:125:A:VAL:HG12	1:129:A:GLU:HG2	14	1.39
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	15	1.39
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	6	1.39
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	7	1.39
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	8	1.39
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD13	19	1.39
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD23	3	1.39
(2,271)	1:146:A:THR:HG22	1:137:A:SER:HB2	2	1.38
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG11	2	1.38
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB3	12	1.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB3	20	1.38
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD23	13	1.38
(2,116)	1:122:A:ASN:HB2	1:123:A:GLU:HB3	4	1.38
(1,855)	1:130:A:ALA:HB1	1:129:A:GLU:HB3	1	1.38
(1,855)	1:130:A:ALA:HB1	1:129:A:GLU:HB3	11	1.38
(1,729)	1:125:A:VAL:HG13	1:129:A:GLU:HG2	7	1.38
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD13	6	1.38
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD13	11	1.38
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD11	20	1.38
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	3	1.38
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	4	1.38
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	5	1.38
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	10	1.38
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	11	1.38
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	16	1.38
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	18	1.38
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD11	3	1.38
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD11	8	1.38
(1,81)	1:140:A:THR:HA	1:141:A:ARG:HG3	14	1.38
(2,282)	1:155:A:ILE:HG22	1:169:A:VAL:HG12	11	1.37
(2,263)	1:147:A:VAL:HG23	1:146:A:THR:H	19	1.37
(2,168)	1:186:A:MET:HG3	1:169:A:VAL:HG13	5	1.37
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB2	14	1.37
(2,116)	1:122:A:ASN:HB2	1:123:A:GLU:HB3	1	1.37
(2,116)	1:122:A:ASN:HB3	1:123:A:GLU:HB3	17	1.37
(1,913)	1:152:A:ILE:HD12	1:128:A:LEU:HD21	7	1.37
(1,729)	1:125:A:VAL:HG12	1:129:A:GLU:HG2	19	1.37
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	15	1.37
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD11	2	1.37
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	17	1.37
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	20	1.37
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	1	1.37
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	12	1.37
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	13	1.37
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	14	1.37
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	20	1.37
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD23	12	1.37
(2,271)	1:146:A:THR:HG22	1:137:A:SER:HB2	3	1.36
(2,271)	1:146:A:THR:HG23	1:137:A:SER:HB2	6	1.36
(2,263)	1:147:A:VAL:HG23	1:146:A:THR:H	8	1.36
(1,913)	1:152:A:ILE:HD13	1:128:A:LEU:HD23	6	1.36
(1,855)	1:130:A:ALA:HB1	1:129:A:GLU:HB3	2	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,855)	1:130:A:ALA:HB3	1:129:A:GLU:HB3	14	1.36
(1,855)	1:130:A:ALA:HB3	1:129:A:GLU:HB3	16	1.36
(1,855)	1:130:A:ALA:HB3	1:129:A:GLU:HB3	18	1.36
(1,703)	1:124:A:MET:H	1:126:A:LYS:HG2	1	1.36
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	17	1.36
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	1	1.36
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	11	1.36
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	9	1.36
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	17	1.36
(1,81)	1:140:A:THR:HA	1:141:A:ARG:HG3	2	1.36
(1,2)	1:182:A:THR:HB	1:193:A:GLY:HA3	6	1.36
(2,271)	1:146:A:THR:HG21	1:137:A:SER:HB2	9	1.35
(2,183)	1:121:A:LYS:HB3	1:122:A:ASN:HB2	12	1.35
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG12	7	1.35
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	13	1.35
(2,116)	1:122:A:ASN:HB2	1:123:A:GLU:HB3	8	1.35
(1,946)	1:155:A:ILE:HD12	1:139:A:MET:HB3	6	1.35
(1,855)	1:130:A:ALA:HB3	1:129:A:GLU:HB3	6	1.35
(1,855)	1:130:A:ALA:HB3	1:129:A:GLU:HB3	7	1.35
(1,855)	1:130:A:ALA:HB1	1:129:A:GLU:HB3	13	1.35
(1,729)	1:125:A:VAL:HG12	1:129:A:GLU:HG2	6	1.35
(1,729)	1:125:A:VAL:HG11	1:129:A:GLU:HG2	10	1.35
(1,687)	1:197:A:LEU:HD13	1:176:A:ASP:HB3	7	1.35
(1,677)	1:173:A:LEU:HA	1:173:A:LEU:HD12	6	1.35
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	11	1.35
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	19	1.35
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	20	1.35
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	2	1.35
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	2	1.35
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	15	1.35
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD12	10	1.35
(2,282)	1:155:A:ILE:HG21	1:169:A:VAL:HG13	17	1.34
(2,271)	1:146:A:THR:HG23	1:137:A:SER:HB2	11	1.34
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	2	1.34
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	7	1.34
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG12	8	1.34
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB3	1	1.34
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	19	1.34
(1,855)	1:130:A:ALA:HB2	1:129:A:GLU:HB3	4	1.34
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	1	1.34
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	15	1.34
(1,361)	1:167:A:GLY:HA2	1:158:A:PRO:HB2	9	1.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	19	1.34
(1,81)	1:140:A:THR:HA	1:141:A:ARG:HG3	9	1.34
(2,282)	1:155:A:ILE:HG23	1:169:A:VAL:HG11	20	1.33
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG11	6	1.33
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD22	14	1.33
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	9	1.33
(2,64)	1:170:A:ARG:HD3	1:186:A:MET:HG2	18	1.33
(1,855)	1:130:A:ALA:HB2	1:129:A:GLU:HB3	9	1.33
(1,855)	1:130:A:ALA:HB2	1:129:A:GLU:HB3	12	1.33
(1,855)	1:130:A:ALA:HB3	1:129:A:GLU:HB3	17	1.33
(1,759)	1:131:A:THR:HG22	1:128:A:LEU:HD12	4	1.33
(1,759)	1:131:A:THR:HG22	1:128:A:LEU:HD12	5	1.33
(1,729)	1:125:A:VAL:HG11	1:129:A:GLU:HG2	13	1.33
(1,688)	1:197:A:LEU:HD13	1:175:A:PHE:H	10	1.33
(1,513)	1:139:A:MET:HB2	1:138:A:LYS:HA	16	1.33
(1,488)	1:117:A:MET:HB2	1:114:A:GLU:H	15	1.33
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	18	1.33
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD21	14	1.33
(2,271)	1:146:A:THR:HG22	1:137:A:SER:HB2	8	1.32
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG11	12	1.32
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB2	9	1.32
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB3	17	1.32
(2,87)	1:138:A:LYS:HE3	1:138:A:LYS:HB3	7	1.32
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	2	1.32
(1,855)	1:130:A:ALA:HB1	1:129:A:GLU:HB3	15	1.32
(1,855)	1:130:A:ALA:HB3	1:129:A:GLU:HB3	20	1.32
(1,759)	1:131:A:THR:HG22	1:128:A:LEU:HD12	17	1.32
(1,729)	1:125:A:VAL:HG12	1:129:A:GLU:HG2	9	1.32
(1,729)	1:125:A:VAL:HG11	1:129:A:GLU:HG2	12	1.32
(1,729)	1:125:A:VAL:HG13	1:129:A:GLU:HG2	15	1.32
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	12	1.32
(1,81)	1:140:A:THR:HA	1:141:A:ARG:HG3	12	1.32
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD22	1	1.32
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD22	6	1.32
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD21	13	1.32
(1,2)	1:182:A:THR:HB	1:193:A:GLY:HA3	5	1.32
(2,282)	1:155:A:ILE:HG22	1:169:A:VAL:HG11	1	1.31
(2,271)	1:146:A:THR:HG21	1:137:A:SER:HB2	13	1.31
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB2	11	1.31
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	10	1.31
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	9	1.31
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	17	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	20	1.31
(1,946)	1:155:A:ILE:HD12	1:139:A:MET:HB3	19	1.31
(1,913)	1:152:A:ILE:HD13	1:128:A:LEU:HD21	13	1.31
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG11	17	1.31
(1,759)	1:131:A:THR:HG22	1:128:A:LEU:HD11	2	1.31
(1,759)	1:131:A:THR:HG21	1:128:A:LEU:HD11	18	1.31
(1,684)	1:113:A:LEU:HD23	1:183:A:ILE:HD11	9	1.31
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD11	17	1.31
(1,258)	1:179:A:HIS:HA	1:119:A:ILE:HD12	18	1.31
(2,282)	1:155:A:ILE:HG21	1:169:A:VAL:HG12	8	1.3
(2,282)	1:155:A:ILE:HG22	1:169:A:VAL:HG11	14	1.3
(2,282)	1:155:A:ILE:HG21	1:169:A:VAL:HG12	16	1.3
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD23	4	1.3
(2,116)	1:122:A:ASN:HB3	1:123:A:GLU:HB3	6	1.3
(2,116)	1:122:A:ASN:HB2	1:123:A:GLU:HB3	16	1.3
(2,116)	1:122:A:ASN:HB3	1:123:A:GLU:HB3	18	1.3
(2,87)	1:138:A:LYS:HE3	1:138:A:LYS:HB3	2	1.3
(1,1001)	1:165:A:LYS:H	1:164:A:SER:HB3	19	1.3
(1,764)	1:114:A:GLU:H	1:113:A:LEU:HD21	18	1.3
(1,759)	1:131:A:THR:HG23	1:128:A:LEU:HD13	20	1.3
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD11	3	1.3
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	3	1.3
(1,147)	1:136:A:VAL:HA	1:137:A:SER:HB2	7	1.3
(1,81)	1:140:A:THR:HA	1:141:A:ARG:HG3	17	1.3
(1,50)	1:125:A:VAL:HA	1:129:A:GLU:HG2	16	1.3
(2,282)	1:155:A:ILE:HG23	1:169:A:VAL:HG12	4	1.29
(2,271)	1:146:A:THR:HG21	1:137:A:SER:HB2	1	1.29
(2,271)	1:146:A:THR:HG21	1:137:A:SER:HB2	5	1.29
(2,271)	1:146:A:THR:HG23	1:137:A:SER:HB2	17	1.29
(2,271)	1:146:A:THR:HG23	1:137:A:SER:HB2	18	1.29
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	17	1.29
(2,87)	1:138:A:LYS:HE3	1:138:A:LYS:HB3	9	1.29
(2,87)	1:138:A:LYS:HE3	1:138:A:LYS:HB3	10	1.29
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	3	1.29
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	7	1.29
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	8	1.29
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	11	1.29
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	18	1.29
(1,946)	1:155:A:ILE:HD11	1:139:A:MET:HB3	14	1.29
(1,855)	1:130:A:ALA:HB3	1:129:A:GLU:HB3	10	1.29
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD23	8	1.29
(1,693)	1:128:A:LEU:HD11	1:124:A:MET:HB2	10	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,361)	1:167:A:GLY:HA2	1:158:A:PRO:HB2	17	1.29
(1,81)	1:140:A:THR:HA	1:141:A:ARG:HG3	16	1.29
(1,12)	1:194:A:PHE:HD2	1:193:A:GLY:HA3	13	1.29
(2,282)	1:155:A:ILE:HG22	1:169:A:VAL:HG13	3	1.28
(2,282)	1:155:A:ILE:HG21	1:169:A:VAL:HG12	7	1.28
(2,282)	1:155:A:ILE:HG23	1:169:A:VAL:HG12	9	1.28
(2,282)	1:155:A:ILE:HG23	1:169:A:VAL:HG11	12	1.28
(2,271)	1:146:A:THR:HG22	1:137:A:SER:HB2	12	1.28
(2,271)	1:146:A:THR:HG23	1:137:A:SER:HB2	16	1.28
(2,271)	1:146:A:THR:HG22	1:137:A:SER:HB2	19	1.28
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB2	16	1.28
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD12	6	1.28
(2,116)	1:122:A:ASN:HB3	1:123:A:GLU:HB3	12	1.28
(2,87)	1:138:A:LYS:HE3	1:138:A:LYS:HB3	15	1.28
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	1	1.28
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	10	1.28
(1,759)	1:131:A:THR:HG23	1:128:A:LEU:HD12	11	1.28
(1,693)	1:128:A:LEU:HD13	1:124:A:MET:HB2	9	1.28
(1,81)	1:140:A:THR:HA	1:141:A:ARG:HG3	11	1.28
(1,81)	1:140:A:THR:HA	1:141:A:ARG:HG3	18	1.28
(2,282)	1:155:A:ILE:HG23	1:169:A:VAL:HG13	10	1.27
(2,271)	1:146:A:THR:HG23	1:137:A:SER:HB2	4	1.27
(2,271)	1:146:A:THR:HG21	1:137:A:SER:HB2	14	1.27
(2,183)	1:121:A:LYS:HB3	1:122:A:ASN:HB2	8	1.27
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG12	9	1.27
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG11	14	1.27
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG11	20	1.27
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	6	1.27
(2,116)	1:122:A:ASN:HB3	1:123:A:GLU:HB3	10	1.27
(2,87)	1:138:A:LYS:HE3	1:138:A:LYS:HB3	16	1.27
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	13	1.27
(1,913)	1:152:A:ILE:HD11	1:128:A:LEU:HD23	8	1.27
(1,759)	1:131:A:THR:HG23	1:128:A:LEU:HD12	1	1.27
(1,684)	1:113:A:LEU:HD23	1:183:A:ILE:HD11	12	1.27
(1,360)	1:167:A:GLY:HA2	1:158:A:PRO:HA	1	1.27
(1,81)	1:140:A:THR:HA	1:141:A:ARG:HG3	10	1.27
(1,63)	1:164:A:SER:HB2	1:163:A:ASP:HB3	19	1.27
(2,282)	1:155:A:ILE:HG21	1:169:A:VAL:HG11	6	1.26
(2,271)	1:146:A:THR:HG21	1:137:A:SER:HB2	20	1.26
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG12	13	1.26
(2,156)	1:168:A:GLN:HG3	1:155:A:ILE:HD11	15	1.26
(2,135)	1:166:A:GLU:HG2	1:164:A:SER:HB3	19	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	16	1.26
(2,64)	1:170:A:ARG:HD3	1:186:A:MET:HG2	16	1.26
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	15	1.26
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	16	1.26
(1,946)	1:155:A:ILE:HD12	1:139:A:MET:HB3	4	1.26
(1,874)	1:183:A:ILE:HG21	1:113:A:LEU:HD21	12	1.26
(1,759)	1:131:A:THR:HG23	1:128:A:LEU:HD11	10	1.26
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD12	19	1.26
(1,488)	1:117:A:MET:HB2	1:114:A:GLU:H	13	1.26
(1,81)	1:140:A:THR:HA	1:141:A:ARG:HG3	3	1.26
(1,50)	1:125:A:VAL:HA	1:129:A:GLU:HG2	8	1.26
(2,282)	1:155:A:ILE:HG21	1:169:A:VAL:HG11	2	1.25
(2,271)	1:146:A:THR:HG22	1:137:A:SER:HB2	15	1.25
(2,263)	1:147:A:VAL:HG22	1:146:A:THR:H	3	1.25
(2,87)	1:138:A:LYS:HE3	1:138:A:LYS:HB3	5	1.25
(2,87)	1:138:A:LYS:HE3	1:138:A:LYS:HB3	6	1.25
(2,87)	1:138:A:LYS:HE3	1:138:A:LYS:HB3	11	1.25
(2,87)	1:138:A:LYS:HE3	1:138:A:LYS:HB3	12	1.25
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	14	1.25
(1,913)	1:152:A:ILE:HD13	1:128:A:LEU:HD22	2	1.25
(1,913)	1:152:A:ILE:HD13	1:128:A:LEU:HD21	14	1.25
(1,759)	1:131:A:THR:HG21	1:128:A:LEU:HD12	14	1.25
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	4	1.25
(1,50)	1:125:A:VAL:HA	1:129:A:GLU:HG2	19	1.25
(2,282)	1:155:A:ILE:HG22	1:169:A:VAL:HG12	13	1.24
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	5	1.24
(1,946)	1:155:A:ILE:HD11	1:139:A:MET:HB3	17	1.24
(1,759)	1:131:A:THR:HG22	1:128:A:LEU:HD13	12	1.24
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD12	10	1.24
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	5	1.24
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	6	1.24
(1,50)	1:125:A:VAL:HA	1:129:A:GLU:HG2	15	1.24
(1,12)	1:194:A:PHE:HD2	1:193:A:GLY:HA3	6	1.24
(2,282)	1:155:A:ILE:HG21	1:169:A:VAL:HG12	18	1.23
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG13	17	1.23
(2,116)	1:122:A:ASN:HB3	1:123:A:GLU:HB3	7	1.23
(2,116)	1:122:A:ASN:HB3	1:123:A:GLU:HB3	11	1.23
(2,87)	1:138:A:LYS:HE3	1:138:A:LYS:HB3	8	1.23
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	6	1.23
(1,913)	1:152:A:ILE:HD13	1:128:A:LEU:HD23	19	1.23
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	7	1.23
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	7	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	14	1.23
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	5	1.23
(1,81)	1:140:A:THR:HA	1:141:A:ARG:HG3	20	1.23
(1,50)	1:125:A:VAL:HA	1:129:A:GLU:HG2	1	1.23
(1,50)	1:125:A:VAL:HA	1:129:A:GLU:HG2	7	1.23
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG12	11	1.22
(2,89)	1:126:A:LYS:HE2	1:127:A:LEU:HD11	6	1.22
(2,87)	1:138:A:LYS:HE3	1:138:A:LYS:HB3	4	1.22
(2,87)	1:138:A:LYS:HE3	1:138:A:LYS:HB3	14	1.22
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	14	1.22
(1,913)	1:152:A:ILE:HD11	1:128:A:LEU:HD23	9	1.22
(1,913)	1:152:A:ILE:HD12	1:128:A:LEU:HD22	10	1.22
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG12	4	1.22
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	4	1.22
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	2	1.22
(1,81)	1:140:A:THR:HA	1:141:A:ARG:HG3	15	1.22
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD22	19	1.22
(2,183)	1:121:A:LYS:HB3	1:122:A:ASN:HB2	15	1.21
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD11	7	1.21
(1,913)	1:152:A:ILE:HD12	1:128:A:LEU:HD21	3	1.21
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	3	1.21
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB2	16	1.21
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	10	1.21
(1,370)	1:154:A:MET:HA	1:145:A:PHE:HB2	9	1.21
(1,50)	1:125:A:VAL:HA	1:129:A:GLU:HG2	12	1.21
(1,50)	1:125:A:VAL:HA	1:129:A:GLU:HG2	14	1.21
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG11	1	1.2
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD11	3	1.2
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD13	13	1.2
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD12	18	1.2
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	8	1.2
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	4	1.2
(1,1059)	1:166:A:GLU:H	1:165:A:LYS:HG3	12	1.2
(1,81)	1:140:A:THR:HA	1:141:A:ARG:HG3	19	1.2
(1,50)	1:125:A:VAL:HA	1:129:A:GLU:HG2	6	1.2
(1,8)	1:133:A:TYR:HD2	1:128:A:LEU:HD22	8	1.2
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB2	3	1.19
(2,116)	1:122:A:ASN:HB3	1:123:A:GLU:HB3	14	1.19
(2,87)	1:138:A:LYS:HE3	1:138:A:LYS:HB3	17	1.19
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	7	1.19
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	13	1.19
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	17	1.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,913)	1:152:A:ILE:HD12	1:128:A:LEU:HD23	12	1.19
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG11	6	1.19
(1,759)	1:131:A:THR:HG23	1:128:A:LEU:HD11	7	1.19
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	8	1.19
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	6	1.19
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	17	1.19
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	7	1.19
(1,210)	1:159:A:PHE:HD2	1:159:A:PHE:HA	19	1.19
(2,116)	1:122:A:ASN:HB3	1:123:A:GLU:HB3	9	1.18
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD12	11	1.18
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	1	1.18
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	16	1.18
(1,913)	1:152:A:ILE:HD13	1:128:A:LEU:HD23	4	1.18
(1,874)	1:183:A:ILE:HG22	1:113:A:LEU:HD21	9	1.18
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG11	1	1.18
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG11	2	1.18
(1,759)	1:131:A:THR:HG21	1:128:A:LEU:HD13	9	1.18
(1,759)	1:131:A:THR:HG23	1:128:A:LEU:HD11	13	1.18
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	14	1.18
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	7	1.18
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	18	1.18
(1,93)	1:111:A:VAL:HA	1:111:A:VAL:HG23	18	1.18
(1,50)	1:125:A:VAL:HA	1:129:A:GLU:HG2	10	1.18
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG22	16	1.17
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG12	4	1.17
(2,168)	1:186:A:MET:HG2	1:169:A:VAL:HG12	19	1.17
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD13	18	1.17
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD21	3	1.17
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG21	10	1.17
(2,120)	1:153:A:GLU:HG2	1:152:A:ILE:HG23	16	1.17
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	7	1.17
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	2	1.17
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	11	1.17
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	20	1.17
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG13	13	1.17
(1,795)	1:182:A:THR:HG21	1:193:A:GLY:HA3	15	1.17
(1,759)	1:131:A:THR:HG23	1:128:A:LEU:HD11	6	1.17
(1,759)	1:131:A:THR:HG22	1:128:A:LEU:HD13	15	1.17
(1,723)	1:127:A:LEU:HD11	1:120:A:SER:H	3	1.17
(1,723)	1:127:A:LEU:HD12	1:120:A:SER:H	18	1.17
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	1	1.17
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	12	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	13	1.17
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	16	1.17
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	19	1.17
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	13	1.17
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	15	1.17
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG12	10	1.17
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	14	1.17
(1,210)	1:159:A:PHE:HD2	1:159:A:PHE:HA	12	1.17
(1,93)	1:111:A:VAL:HA	1:111:A:VAL:HG23	14	1.17
(1,50)	1:125:A:VAL:HA	1:129:A:GLU:HG2	13	1.17
(2,129)	1:153:A:GLU:HG3	1:173:A:LEU:HD22	2	1.16
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	4	1.16
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	6	1.16
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	9	1.16
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	18	1.16
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	3	1.16
(1,946)	1:155:A:ILE:HD13	1:139:A:MET:HB3	16	1.16
(1,913)	1:152:A:ILE:HD12	1:128:A:LEU:HD23	17	1.16
(1,913)	1:152:A:ILE:HD11	1:128:A:LEU:HD23	20	1.16
(1,759)	1:131:A:THR:HG22	1:128:A:LEU:HD13	16	1.16
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	10	1.16
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	2	1.16
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	4	1.16
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	10	1.16
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	19	1.16
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	20	1.16
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	2	1.16
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	8	1.16
(1,210)	1:159:A:PHE:HD2	1:159:A:PHE:HA	15	1.16
(2,282)	1:155:A:ILE:HG21	1:169:A:VAL:HG11	15	1.15
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG11	8	1.15
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG12	20	1.15
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	15	1.15
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	3	1.15
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	5	1.15
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	15	1.15
(1,913)	1:152:A:ILE:HD13	1:128:A:LEU:HD21	16	1.15
(1,687)	1:197:A:LEU:HD12	1:176:A:ASP:HB3	19	1.15
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	2	1.15
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	6	1.15
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	9	1.15
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	5	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	8	1.15
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	16	1.15
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	18	1.15
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	17	1.15
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB1	10	1.15
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	4	1.15
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD13	5	1.15
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	16	1.15
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	14	1.15
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	4	1.15
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	9	1.15
(1,93)	1:111:A:VAL:HA	1:111:A:VAL:HG23	8	1.15
(1,50)	1:125:A:VAL:HA	1:129:A:GLU:HG2	9	1.15
(2,151)	1:168:A:GLN:HG2	1:169:A:VAL:HG22	13	1.14
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG13	10	1.14
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG22	17	1.14
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	12	1.14
(1,946)	1:155:A:ILE:HD13	1:139:A:MET:HB3	12	1.14
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG11	14	1.14
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD13	10	1.14
(1,723)	1:127:A:LEU:HD11	1:120:A:SER:H	7	1.14
(1,723)	1:127:A:LEU:HD12	1:120:A:SER:H	8	1.14
(1,723)	1:127:A:LEU:HD12	1:120:A:SER:H	11	1.14
(1,723)	1:127:A:LEU:HD11	1:120:A:SER:H	15	1.14
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD13	1	1.14
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	17	1.14
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	9	1.14
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	11	1.14
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	14	1.14
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD13	16	1.14
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	5	1.14
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	18	1.14
(1,361)	1:167:A:GLY:HA2	1:158:A:PRO:HB2	20	1.14
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	12	1.14
(2,183)	1:121:A:LYS:HB3	1:122:A:ASN:HB2	2	1.13
(2,156)	1:168:A:GLN:HG3	1:155:A:ILE:HD13	10	1.13
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG13	5	1.13
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG21	15	1.13
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD13	9	1.13
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD11	16	1.13
(1,913)	1:152:A:ILE:HD12	1:128:A:LEU:HD22	15	1.13
(1,759)	1:131:A:THR:HG23	1:128:A:LEU:HD11	8	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD11	2	1.13
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD12	9	1.13
(1,723)	1:127:A:LEU:HD13	1:120:A:SER:H	19	1.13
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	7	1.13
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	1	1.13
(1,657)	1:134:A:ARG:HG2	1:134:A:ARG:H	12	1.13
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	11	1.13
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	6	1.13
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	3	1.13
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	6	1.13
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	12	1.13
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	15	1.13
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG23	4	1.12
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG22	6	1.12
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG23	8	1.12
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG13	4	1.12
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG12	9	1.12
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG11	14	1.12
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD12	8	1.12
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	10	1.12
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	7	1.12
(1,913)	1:152:A:ILE:HD11	1:128:A:LEU:HD23	5	1.12
(1,913)	1:152:A:ILE:HD12	1:128:A:LEU:HD23	11	1.12
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD13	3	1.12
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD11	14	1.12
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD11	18	1.12
(1,723)	1:127:A:LEU:HD12	1:120:A:SER:H	2	1.12
(1,723)	1:127:A:LEU:HD11	1:120:A:SER:H	5	1.12
(1,723)	1:127:A:LEU:HD11	1:120:A:SER:H	6	1.12
(1,698)	1:126:A:LYS:HG2	1:124:A:MET:HA	1	1.12
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	5	1.12
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	8	1.12
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	15	1.12
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	6	1.12
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	1	1.12
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	11	1.12
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	13	1.12
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	20	1.12
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	14	1.12
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	15	1.12
(2,279)	1:125:A:VAL:HG23	1:124:A:MET:HA	1	1.11
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG23	15	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,120)	1:153:A:GLU:HG2	1:152:A:ILE:HG22	19	1.11
(2,120)	1:153:A:GLU:HG2	1:152:A:ILE:HG22	20	1.11
(1,946)	1:155:A:ILE:HD11	1:139:A:MET:HB3	18	1.11
(1,894)	1:123:A:GLU:HB2	1:119:A:ILE:HG23	1	1.11
(1,759)	1:131:A:THR:HG23	1:128:A:LEU:HD11	19	1.11
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD12	4	1.11
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD12	13	1.11
(1,723)	1:127:A:LEU:HD13	1:120:A:SER:H	4	1.11
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	14	1.11
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	15	1.11
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	13	1.11
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	14	1.11
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD11	19	1.11
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	2	1.11
(1,401)	1:160:A:ASP:HB3	1:165:A:LYS:HG3	16	1.11
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	8	1.11
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG21	17	1.1
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG12	18	1.1
(1,844)	1:139:A:MET:HB3	1:136:A:VAL:HG11	10	1.1
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG11	5	1.1
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD11	11	1.1
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	10	1.1
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	11	1.1
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	4	1.1
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	18	1.1
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	4	1.1
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	5	1.1
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	12	1.1
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	20	1.1
(1,503)	1:139:A:MET:HB2	1:145:A:PHE:HB2	10	1.1
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	7	1.1
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	9	1.1
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	17	1.1
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG13	3	1.09
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG12	13	1.09
(2,120)	1:153:A:GLU:HG2	1:152:A:ILE:HG23	11	1.09
(1,1073)	1:169:A:VAL:H	1:168:A:GLN:HG3	2	1.09
(1,941)	1:155:A:ILE:HD11	1:154:A:MET:HA	13	1.09
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD11	11	1.09
(1,913)	1:152:A:ILE:HD12	1:128:A:LEU:HD21	18	1.09
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD13	5	1.09
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD11	20	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,723)	1:127:A:LEU:HD13	1:120:A:SER:H	16	1.09
(1,723)	1:127:A:LEU:HD11	1:120:A:SER:H	17	1.09
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	16	1.09
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	5	1.09
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	11	1.09
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	20	1.09
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	1	1.09
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	9	1.09
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	16	1.09
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	18	1.09
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	6	1.09
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	4	1.09
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	8	1.09
(1,462)	1:187:A:GLU:HA	1:187:A:GLU:HG3	19	1.09
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	7	1.09
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	11	1.09
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	4	1.09
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG21	20	1.08
(2,248)	1:165:A:LYS:HG3	1:166:A:GLU:HG2	19	1.08
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG13	6	1.08
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG11	7	1.08
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG11	11	1.08
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG11	15	1.08
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG21	5	1.08
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG22	8	1.08
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	9	1.08
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	15	1.08
(1,946)	1:155:A:ILE:HD11	1:139:A:MET:HB3	2	1.08
(1,946)	1:155:A:ILE:HD11	1:139:A:MET:HB3	9	1.08
(1,941)	1:155:A:ILE:HD11	1:154:A:MET:HA	15	1.08
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD11	18	1.08
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG11	9	1.08
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD11	6	1.08
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD13	7	1.08
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD11	12	1.08
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD13	17	1.08
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	2	1.08
(1,494)	1:117:A:MET:HB2	1:180:A:LEU:HB3	7	1.08
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	11	1.08
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	18	1.08
(2,279)	1:125:A:VAL:HG21	1:124:A:MET:HA	3	1.07
(2,279)	1:125:A:VAL:HG21	1:124:A:MET:HA	12	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG22	14	1.07
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG22	19	1.07
(2,247)	1:164:A:SER:HB2	1:165:A:LYS:HG2	19	1.07
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG12	2	1.07
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG13	16	1.07
(2,120)	1:153:A:GLU:HG2	1:152:A:ILE:HG22	1	1.07
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG22	7	1.07
(1,1128)	1:110:A:MET:H	1:111:A:VAL:HG11	8	1.07
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	1	1.07
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	6	1.07
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	10	1.07
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	12	1.07
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	19	1.07
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD11	9	1.07
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD13	15	1.07
(1,913)	1:152:A:ILE:HD12	1:128:A:LEU:HD22	1	1.07
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG13	18	1.07
(1,759)	1:131:A:THR:HG21	1:128:A:LEU:HD13	3	1.07
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD12	18	1.07
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD12	1	1.07
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD13	15	1.07
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	12	1.07
(1,210)	1:159:A:PHE:HD2	1:159:A:PHE:HA	11	1.07
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	9	1.07
(2,279)	1:125:A:VAL:HG21	1:124:A:MET:HA	13	1.06
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG23	7	1.06
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG21	11	1.06
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG22	12	1.06
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG23	18	1.06
(2,168)	1:186:A:MET:HG3	1:169:A:VAL:HG12	10	1.06
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG12	1	1.06
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG11	12	1.06
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG12	17	1.06
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG22	18	1.06
(2,64)	1:170:A:ARG:HD3	1:186:A:MET:HG2	7	1.06
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	16	1.06
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD11	10	1.06
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	7	1.06
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	8	1.06
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	13	1.06
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	16	1.06
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	6	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,946)	1:155:A:ILE:HD11	1:139:A:MET:HB3	5	1.06
(1,941)	1:155:A:ILE:HD11	1:154:A:MET:HA	5	1.06
(1,941)	1:155:A:ILE:HD13	1:154:A:MET:HA	16	1.06
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG11	16	1.06
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD11	3	1.06
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD11	7	1.06
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD12	10	1.06
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD13	16	1.06
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD13	6	1.06
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD12	16	1.06
(1,723)	1:127:A:LEU:HD12	1:120:A:SER:H	20	1.06
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	3	1.06
(1,663)	1:134:A:ARG:HA	1:134:A:ARG:HG2	17	1.06
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	3	1.06
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	15	1.06
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	1	1.06
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	2	1.06
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	4	1.06
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	10	1.06
(1,12)	1:194:A:PHE:HD2	1:193:A:GLY:HA3	15	1.06
(2,279)	1:125:A:VAL:HG23	1:124:A:MET:HA	10	1.05
(2,279)	1:125:A:VAL:HG21	1:124:A:MET:HA	14	1.05
(2,279)	1:125:A:VAL:HG21	1:124:A:MET:HA	19	1.05
(2,262)	1:113:A:LEU:HD22	1:180:A:LEU:HD11	10	1.05
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG21	1	1.05
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG21	9	1.05
(2,151)	1:168:A:GLN:HG2	1:169:A:VAL:HG21	14	1.05
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG22	13	1.05
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD11	15	1.05
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	4	1.05
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD11	13	1.05
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD11	9	1.05
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD12	12	1.05
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD12	19	1.05
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	9	1.05
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	19	1.05
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG23	17	1.05
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	13	1.05
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	16	1.05
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	17	1.05
(2,279)	1:125:A:VAL:HG22	1:124:A:MET:HA	2	1.04
(2,279)	1:125:A:VAL:HG21	1:124:A:MET:HA	5	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,279)	1:125:A:VAL:HG21	1:124:A:MET:HA	6	1.04
(2,279)	1:125:A:VAL:HG22	1:124:A:MET:HA	7	1.04
(2,279)	1:125:A:VAL:HG23	1:124:A:MET:HA	9	1.04
(2,266)	1:113:A:LEU:HD23	1:173:A:LEU:HA	9	1.04
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG22	5	1.04
(2,140)	1:138:A:LYS:HB3	1:136:A:VAL:HG12	19	1.04
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG22	12	1.04
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	7	1.04
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	14	1.04
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	14	1.04
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD12	7	1.04
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD13	12	1.04
(1,874)	1:183:A:ILE:HG23	1:113:A:LEU:HD23	16	1.04
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG11	11	1.04
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD11	2	1.04
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD12	4	1.04
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD13	5	1.04
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD13	11	1.04
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD11	19	1.04
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD11	20	1.04
(1,684)	1:113:A:LEU:HD22	1:183:A:ILE:HD11	16	1.04
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	18	1.04
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	15	1.04
(1,360)	1:167:A:GLY:HA2	1:158:A:PRO:HA	7	1.04
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	6	1.04
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	14	1.04
(2,279)	1:125:A:VAL:HG22	1:124:A:MET:HA	4	1.03
(2,279)	1:125:A:VAL:HG21	1:124:A:MET:HA	16	1.03
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG22	13	1.03
(1,1073)	1:169:A:VAL:H	1:168:A:GLN:HG3	9	1.03
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	18	1.03
(1,941)	1:155:A:ILE:HD13	1:154:A:MET:HA	11	1.03
(1,941)	1:155:A:ILE:HD11	1:154:A:MET:HA	12	1.03
(1,941)	1:155:A:ILE:HD11	1:154:A:MET:HA	18	1.03
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG13	3	1.03
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD12	1	1.03
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD12	8	1.03
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD13	13	1.03
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD11	17	1.03
(1,693)	1:128:A:LEU:HD11	1:124:A:MET:HB2	2	1.03
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD12	13	1.03
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	7	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,572)	1:153:A:GLU:HB3	1:139:A:MET:HG3	13	1.03
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	18	1.03
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG22	19	1.03
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	6	1.03
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	9	1.03
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	5	1.03
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	6	1.03
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	19	1.03
(2,279)	1:125:A:VAL:HG22	1:124:A:MET:HA	15	1.02
(2,279)	1:125:A:VAL:HG23	1:124:A:MET:HA	20	1.02
(2,183)	1:121:A:LYS:HB3	1:122:A:ASN:HB2	13	1.02
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	13	1.02
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	18	1.02
(1,941)	1:155:A:ILE:HD12	1:154:A:MET:HA	19	1.02
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD13	4	1.02
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD11	15	1.02
(1,725)	1:127:A:LEU:HB3	1:127:A:LEU:HD11	8	1.02
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	20	1.02
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	6	1.02
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	19	1.02
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	1	1.02
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	2	1.02
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	5	1.02
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	3	1.02
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	7	1.02
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	8	1.02
(2,279)	1:125:A:VAL:HG22	1:124:A:MET:HA	8	1.01
(2,279)	1:125:A:VAL:HG23	1:124:A:MET:HA	11	1.01
(2,279)	1:125:A:VAL:HG23	1:124:A:MET:HA	17	1.01
(2,151)	1:168:A:GLN:HG3	1:169:A:VAL:HG21	11	1.01
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD11	10	1.01
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG21	1	1.01
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	16	1.01
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD11	9	1.01
(1,946)	1:155:A:ILE:HD12	1:139:A:MET:HB3	3	1.01
(1,939)	1:119:A:ILE:HD11	1:180:A:LEU:H	3	1.01
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD13	8	1.01
(1,909)	1:152:A:ILE:HD12	1:124:A:MET:HB2	2	1.01
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	3	1.01
(1,361)	1:167:A:GLY:HA2	1:158:A:PRO:HB2	2	1.01
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	8	1.01
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	1	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	17	1.01
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	3	1.01
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	8	1.01
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	19	1.01
(2,279)	1:125:A:VAL:HG22	1:124:A:MET:HA	18	1.0
(2,266)	1:113:A:LEU:HD11	1:173:A:LEU:HA	18	1.0
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG23	2	1.0
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG21	14	1.0
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD13	1	1.0
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD12	2	1.0
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD13	4	1.0
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD12	12	1.0
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD12	20	1.0
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	2	1.0
(1,1073)	1:169:A:VAL:H	1:168:A:GLN:HG3	17	1.0
(1,941)	1:155:A:ILE:HD12	1:154:A:MET:HA	20	1.0
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD12	14	1.0
(1,744)	1:180:A:LEU:HB3	1:180:A:LEU:HD13	14	1.0
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD22	8	1.0
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	10	1.0
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	17	1.0
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	6	1.0
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG23	6	1.0
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD12	6	0.99
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG21	4	0.99
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG23	9	0.99
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD11	5	0.99
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD12	14	0.99
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	8	0.99
(1,941)	1:155:A:ILE:HD11	1:154:A:MET:HA	2	0.99
(1,941)	1:155:A:ILE:HD12	1:154:A:MET:HA	3	0.99
(1,941)	1:155:A:ILE:HD11	1:154:A:MET:HA	17	0.99
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD13	3	0.99
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD11	6	0.99
(1,928)	1:119:A:ILE:HD12	1:119:A:ILE:H	3	0.99
(1,928)	1:119:A:ILE:HD13	1:119:A:ILE:H	18	0.99
(1,687)	1:197:A:LEU:HD13	1:176:A:ASP:HB3	3	0.99
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG11	15	0.99
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	3	0.99
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	4	0.99
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG23	15	0.99
(2,278)	1:174:A:THR:HG23	1:197:A:LEU:HB2	20	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,266)	1:113:A:LEU:HD22	1:173:A:LEU:HA	16	0.98
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG22	3	0.98
(2,151)	1:168:A:GLN:HG2	1:169:A:VAL:HG21	3	0.98
(2,151)	1:168:A:GLN:HG2	1:169:A:VAL:HG23	16	0.98
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD11	17	0.98
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG21	9	0.98
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD11	12	0.98
(1,1070)	1:161:A:PHE:H	1:160:A:ASP:HB3	16	0.98
(1,941)	1:155:A:ILE:HD13	1:154:A:MET:HA	4	0.98
(1,941)	1:155:A:ILE:HD11	1:154:A:MET:HA	9	0.98
(1,939)	1:119:A:ILE:HD13	1:180:A:LEU:H	5	0.98
(1,939)	1:119:A:ILE:HD13	1:180:A:LEU:H	13	0.98
(1,939)	1:119:A:ILE:HD12	1:180:A:LEU:H	18	0.98
(1,928)	1:119:A:ILE:HD13	1:119:A:ILE:H	6	0.98
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG11	10	0.98
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD23	1	0.98
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD22	6	0.98
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD23	12	0.98
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD21	13	0.98
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD23	19	0.98
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	9	0.98
(1,361)	1:167:A:GLY:HA2	1:158:A:PRO:HB2	1	0.98
(1,361)	1:167:A:GLY:HA2	1:158:A:PRO:HB2	19	0.98
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	7	0.98
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	9	0.98
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	13	0.98
(2,255)	1:128:A:LEU:HG	1:125:A:VAL:HG21	10	0.97
(2,168)	1:186:A:MET:HG3	1:169:A:VAL:HG12	18	0.97
(2,151)	1:168:A:GLN:HG3	1:169:A:VAL:HG23	5	0.97
(2,151)	1:168:A:GLN:HG2	1:169:A:VAL:HG21	6	0.97
(2,114)	1:122:A:ASN:HB2	1:125:A:VAL:HG23	14	0.97
(2,62)	1:170:A:ARG:HD3	1:187:A:GLU:HG3	1	0.97
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	15	0.97
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD13	13	0.97
(1,1073)	1:169:A:VAL:H	1:168:A:GLN:HG3	3	0.97
(1,939)	1:119:A:ILE:HD13	1:180:A:LEU:H	17	0.97
(1,937)	1:119:A:ILE:HD11	1:180:A:LEU:HD22	7	0.97
(1,928)	1:119:A:ILE:HD12	1:119:A:ILE:H	4	0.97
(1,823)	1:174:A:THR:HG22	1:180:A:LEU:HD12	6	0.97
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD22	7	0.97
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD23	14	0.97
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD21	16	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD23	17	0.97
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD21	20	0.97
(1,687)	1:197:A:LEU:HD13	1:176:A:ASP:HB3	11	0.97
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD12	4	0.97
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	10	0.97
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	18	0.97
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	1	0.97
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	2	0.97
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	8	0.97
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	16	0.97
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	19	0.97
(1,479)	1:169:A:VAL:HB	1:156:A:ARG:HB3	14	0.97
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	18	0.97
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	1	0.97
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	20	0.97
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	14	0.97
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	14	0.97
(2,266)	1:113:A:LEU:HD12	1:173:A:LEU:HA	12	0.96
(2,183)	1:121:A:LYS:HB3	1:122:A:ASN:HB2	5	0.96
(2,101)	1:152:A:ILE:HG12	1:128:A:LEU:HB3	2	0.96
(2,89)	1:126:A:LYS:HE3	1:127:A:LEU:HD13	16	0.96
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	18	0.96
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG11	2	0.96
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG11	16	0.96
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD13	19	0.96
(1,941)	1:155:A:ILE:HD11	1:154:A:MET:HA	1	0.96
(1,939)	1:119:A:ILE:HD12	1:180:A:LEU:H	4	0.96
(1,939)	1:119:A:ILE:HD13	1:180:A:LEU:H	11	0.96
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD11	5	0.96
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD11	10	0.96
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD22	3	0.96
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD21	4	0.96
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD21	5	0.96
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD23	9	0.96
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD22	11	0.96
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD23	15	0.96
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	7	0.96
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	9	0.96
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	11	0.96
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	13	0.96
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	15	0.96
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	20	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	11	0.96
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	13	0.96
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	16	0.96
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	15	0.96
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	20	0.96
(2,151)	1:168:A:GLN:HG3	1:169:A:VAL:HG22	12	0.95
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	15	0.95
(2,64)	1:170:A:ARG:HD2	1:186:A:MET:HG2	8	0.95
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD11	13	0.95
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD13	7	0.95
(1,941)	1:155:A:ILE:HD12	1:154:A:MET:HA	10	0.95
(1,941)	1:155:A:ILE:HD12	1:154:A:MET:HA	14	0.95
(1,939)	1:119:A:ILE:HD12	1:180:A:LEU:H	8	0.95
(1,939)	1:119:A:ILE:HD13	1:180:A:LEU:H	10	0.95
(1,939)	1:119:A:ILE:HD13	1:180:A:LEU:H	16	0.95
(1,939)	1:119:A:ILE:HD11	1:180:A:LEU:H	19	0.95
(1,939)	1:119:A:ILE:HD12	1:180:A:LEU:H	20	0.95
(1,928)	1:119:A:ILE:HD13	1:119:A:ILE:H	5	0.95
(1,928)	1:119:A:ILE:HD13	1:119:A:ILE:H	11	0.95
(1,928)	1:119:A:ILE:HD13	1:119:A:ILE:H	13	0.95
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD22	2	0.95
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD23	10	0.95
(1,710)	1:127:A:LEU:HB2	1:127:A:LEU:HD23	18	0.95
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	4	0.95
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	14	0.95
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	6	0.95
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	14	0.95
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	7	0.95
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	2	0.94
(2,151)	1:168:A:GLN:HG3	1:169:A:VAL:HG21	7	0.94
(1,979)	1:178:A:ASP:H	1:178:A:ASP:HB2	14	0.94
(1,946)	1:155:A:ILE:HD13	1:139:A:MET:HB3	13	0.94
(1,939)	1:119:A:ILE:HD12	1:180:A:LEU:H	6	0.94
(1,937)	1:119:A:ILE:HD13	1:180:A:LEU:HD22	6	0.94
(1,928)	1:119:A:ILE:HD13	1:119:A:ILE:H	16	0.94
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG12	8	0.94
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD12	6	0.94
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	5	0.94
(1,523)	1:134:A:ARG:HB3	1:134:A:ARG:HD3	12	0.94
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	17	0.94
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	20	0.94
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	12	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	12	0.94
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	17	0.94
(2,266)	1:113:A:LEU:HD13	1:173:A:LEU:HA	6	0.93
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	16	0.93
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	17	0.93
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	9	0.93
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD11	8	0.93
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	6	0.93
(1,1073)	1:169:A:VAL:H	1:168:A:GLN:HG3	18	0.93
(1,946)	1:155:A:ILE:HD11	1:139:A:MET:HB3	1	0.93
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD13	2	0.93
(1,928)	1:119:A:ILE:HD12	1:119:A:ILE:H	2	0.93
(1,928)	1:119:A:ILE:HD13	1:119:A:ILE:H	17	0.93
(1,909)	1:152:A:ILE:HD11	1:124:A:MET:HB2	10	0.93
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	13	0.93
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	3	0.93
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	15	0.93
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	7	0.93
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	4	0.93
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	13	0.93
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	4	0.92
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	10	0.92
(2,168)	1:186:A:MET:HG3	1:169:A:VAL:HG12	16	0.92
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG12	15	0.92
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG11	19	0.92
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD13	16	0.92
(1,939)	1:119:A:ILE:HD12	1:180:A:LEU:H	2	0.92
(1,939)	1:119:A:ILE:HD13	1:180:A:LEU:H	9	0.92
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD12	19	0.92
(1,928)	1:119:A:ILE:HD11	1:119:A:ILE:H	7	0.92
(1,928)	1:119:A:ILE:HD12	1:119:A:ILE:H	8	0.92
(1,928)	1:119:A:ILE:HD13	1:119:A:ILE:H	9	0.92
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG12	7	0.92
(1,823)	1:174:A:THR:HG21	1:180:A:LEU:HD13	1	0.92
(1,823)	1:174:A:THR:HG21	1:180:A:LEU:HD11	13	0.92
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	7	0.92
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	13	0.92
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	6	0.92
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	5	0.92
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	10	0.92
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	11	0.92
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG21	5	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,262)	1:113:A:LEU:HD23	1:180:A:LEU:HD12	5	0.91
(2,202)	1:168:A:GLN:HB2	1:155:A:ILE:HD12	7	0.91
(2,151)	1:168:A:GLN:HG2	1:169:A:VAL:HG21	8	0.91
(2,151)	1:168:A:GLN:HG2	1:169:A:VAL:HG23	18	0.91
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	4	0.91
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	5	0.91
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG22	12	0.91
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	3	0.91
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	2	0.91
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD11	17	0.91
(1,939)	1:119:A:ILE:HD12	1:180:A:LEU:H	12	0.91
(1,928)	1:119:A:ILE:HD12	1:119:A:ILE:H	12	0.91
(1,928)	1:119:A:ILE:HD11	1:119:A:ILE:H	19	0.91
(1,928)	1:119:A:ILE:HD12	1:119:A:ILE:H	20	0.91
(1,846)	1:136:A:VAL:HG12	1:146:A:THR:H	20	0.91
(1,823)	1:174:A:THR:HG22	1:180:A:LEU:HD12	3	0.91
(1,687)	1:197:A:LEU:HD12	1:176:A:ASP:HB3	18	0.91
(1,678)	1:173:A:LEU:HD13	1:183:A:ILE:HA	15	0.91
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	8	0.91
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	10	0.91
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	19	0.91
(1,494)	1:117:A:MET:HB2	1:180:A:LEU:HB3	4	0.91
(1,494)	1:117:A:MET:HB2	1:180:A:LEU:HB3	6	0.91
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG21	3	0.91
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG23	18	0.91
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	7	0.91
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	10	0.91
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	11	0.91
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	1	0.91
(2,261)	1:171:A:ALA:HB1	1:186:A:MET:HG2	19	0.9
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	20	0.9
(2,193)	1:139:A:MET:HG3	1:146:A:THR:HG23	8	0.9
(2,152)	1:168:A:GLN:HG3	1:155:A:ILE:HG21	9	0.9
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG11	10	0.9
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD12	4	0.9
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD11	16	0.9
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	9	0.9
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	10	0.9
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD13	20	0.9
(1,928)	1:119:A:ILE:HD13	1:119:A:ILE:H	10	0.9
(1,928)	1:119:A:ILE:HD12	1:119:A:ILE:H	15	0.9
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG12	10	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,823)	1:174:A:THR:HG23	1:180:A:LEU:HD12	2	0.9
(1,823)	1:174:A:THR:HG23	1:180:A:LEU:HD13	4	0.9
(1,823)	1:174:A:THR:HG22	1:180:A:LEU:HD13	18	0.9
(1,723)	1:127:A:LEU:HD13	1:120:A:SER:H	1	0.9
(1,687)	1:197:A:LEU:HD13	1:176:A:ASP:HB3	12	0.9
(1,547)	1:167:A:GLY:HA2	1:158:A:PRO:HB3	17	0.9
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	6	0.9
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	12	0.9
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	14	0.9
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	15	0.9
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	16	0.9
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG21	6	0.9
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	10	0.9
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	5	0.9
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	12	0.9
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	2	0.9
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	8	0.9
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	5	0.89
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	14	0.89
(2,101)	1:152:A:ILE:HG12	1:128:A:LEU:HB3	10	0.89
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG11	18	0.89
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	6	0.89
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	7	0.89
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	11	0.89
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	15	0.89
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	16	0.89
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	17	0.89
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD11	4	0.89
(1,939)	1:119:A:ILE:HD11	1:180:A:LEU:H	7	0.89
(1,928)	1:119:A:ILE:HD13	1:119:A:ILE:H	1	0.89
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG11	18	0.89
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG11	1	0.89
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	1	0.89
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	9	0.89
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	14	0.89
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	12	0.89
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	19	0.89
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	15	0.89
(2,193)	1:139:A:MET:HG3	1:146:A:THR:HG21	4	0.88
(2,176)	1:114:A:GLU:HB3	1:183:A:ILE:HD13	6	0.88
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG22	6	0.88
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	6	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD12	1	0.88
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD13	15	0.88
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG13	20	0.88
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	3	0.88
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	4	0.88
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	5	0.88
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	13	0.88
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	14	0.88
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	18	0.88
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	20	0.88
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD13	5	0.88
(1,939)	1:119:A:ILE:HD11	1:180:A:LEU:H	14	0.88
(1,939)	1:119:A:ILE:HD12	1:180:A:LEU:H	15	0.88
(1,928)	1:119:A:ILE:HD11	1:119:A:ILE:H	14	0.88
(1,858)	1:130:A:ALA:HB2	1:128:A:LEU:HD23	12	0.88
(1,858)	1:130:A:ALA:HB3	1:128:A:LEU:HD21	16	0.88
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG12	19	0.88
(1,823)	1:174:A:THR:HG22	1:180:A:LEU:HD13	12	0.88
(1,823)	1:174:A:THR:HG23	1:180:A:LEU:HD12	15	0.88
(1,823)	1:174:A:THR:HG23	1:180:A:LEU:HD12	17	0.88
(1,823)	1:174:A:THR:HG23	1:180:A:LEU:HD12	19	0.88
(1,678)	1:173:A:LEU:HD11	1:183:A:ILE:HA	3	0.88
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG13	5	0.88
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG12	18	0.88
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	3	0.88
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	20	0.88
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG22	2	0.88
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	8	0.88
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	10	0.88
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	1	0.88
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	11	0.88
(2,267)	1:113:A:LEU:HD11	1:117:A:MET:HB3	12	0.87
(2,193)	1:139:A:MET:HG3	1:146:A:THR:HG22	14	0.87
(2,152)	1:168:A:GLN:HG3	1:155:A:ILE:HG22	17	0.87
(2,151)	1:168:A:GLN:HG3	1:169:A:VAL:HG23	19	0.87
(2,101)	1:152:A:ILE:HG12	1:128:A:LEU:HB3	9	0.87
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG23	11	0.87
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	1	0.87
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	12	0.87
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD13	18	0.87
(1,939)	1:119:A:ILE:HD13	1:180:A:LEU:H	1	0.87
(1,858)	1:130:A:ALA:HB3	1:128:A:LEU:HD22	10	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,823)	1:174:A:THR:HG23	1:180:A:LEU:HD11	16	0.87
(1,678)	1:173:A:LEU:HD12	1:183:A:ILE:HA	20	0.87
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG12	4	0.87
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG12	9	0.87
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG12	16	0.87
(1,572)	1:153:A:GLU:HB3	1:139:A:MET:HG3	16	0.87
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB3	15	0.87
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	4	0.87
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	5	0.87
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	17	0.87
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG23	8	0.87
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG22	17	0.87
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	16	0.87
(2,262)	1:113:A:LEU:HD23	1:180:A:LEU:HD12	13	0.86
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	8	0.86
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	12	0.86
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	15	0.86
(2,134)	1:166:A:GLU:HG3	1:159:A:PHE:HD2	16	0.86
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	12	0.86
(2,64)	1:170:A:ARG:HD2	1:186:A:MET:HG2	11	0.86
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG22	14	0.86
(2,12)	1:137:A:SER:HB2	1:136:A:VAL:HG11	7	0.86
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	8	0.86
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD13	10	0.86
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD13	14	0.86
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD13	15	0.86
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD12	19	0.86
(1,937)	1:119:A:ILE:HD12	1:180:A:LEU:HD22	4	0.86
(1,909)	1:152:A:ILE:HD13	1:124:A:MET:HB2	9	0.86
(1,858)	1:130:A:ALA:HB2	1:128:A:LEU:HD23	5	0.86
(1,823)	1:174:A:THR:HG22	1:180:A:LEU:HD11	5	0.86
(1,823)	1:174:A:THR:HG22	1:180:A:LEU:HD12	9	0.86
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG13	3	0.86
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG12	13	0.86
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	2	0.86
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	11	0.86
(1,521)	1:134:A:ARG:HB3	1:134:A:ARG:H	18	0.86
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG22	11	0.86
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	2	0.86
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	15	0.86
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	20	0.86
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	2	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	5	0.86
(2,262)	1:113:A:LEU:HD21	1:180:A:LEU:HD13	19	0.85
(2,256)	1:136:A:VAL:HG12	1:138:A:LYS:HG3	2	0.85
(2,64)	1:170:A:ARG:HD3	1:186:A:MET:HG2	3	0.85
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD11	3	0.85
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD11	10	0.85
(1,1073)	1:169:A:VAL:H	1:168:A:GLN:HG3	16	0.85
(1,1031)	1:127:A:LEU:H	1:127:A:LEU:HB3	19	0.85
(1,979)	1:178:A:ASP:H	1:178:A:ASP:HB2	19	0.85
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD12	11	0.85
(1,933)	1:123:A:GLU:HB2	1:119:A:ILE:HD11	17	0.85
(1,858)	1:130:A:ALA:HB3	1:128:A:LEU:HD21	7	0.85
(1,858)	1:130:A:ALA:HB3	1:128:A:LEU:HD22	8	0.85
(1,858)	1:130:A:ALA:HB2	1:128:A:LEU:HD23	9	0.85
(1,858)	1:130:A:ALA:HB3	1:128:A:LEU:HD21	14	0.85
(1,858)	1:130:A:ALA:HB1	1:128:A:LEU:HD22	15	0.85
(1,823)	1:174:A:THR:HG23	1:180:A:LEU:HD13	8	0.85
(1,823)	1:174:A:THR:HG22	1:180:A:LEU:HD11	11	0.85
(1,823)	1:174:A:THR:HG22	1:180:A:LEU:HD12	20	0.85
(1,756)	1:131:A:THR:HG23	1:127:A:LEU:HA	3	0.85
(1,756)	1:131:A:THR:HG23	1:127:A:LEU:HA	9	0.85
(1,702)	1:128:A:LEU:HD11	1:134:A:ARG:HA	3	0.85
(1,687)	1:197:A:LEU:HD12	1:176:A:ASP:HB3	17	0.85
(1,678)	1:173:A:LEU:HD13	1:183:A:ILE:HA	14	0.85
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG12	7	0.85
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG13	17	0.85
(1,547)	1:167:A:GLY:HA2	1:158:A:PRO:HB3	1	0.85
(1,547)	1:167:A:GLY:HA2	1:158:A:PRO:HB3	20	0.85
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG22	4	0.85
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG22	7	0.85
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	9	0.85
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	4	0.85
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	18	0.85
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	8	0.85
(1,63)	1:164:A:SER:HB2	1:163:A:ASP:HB3	16	0.85
(2,256)	1:136:A:VAL:HG11	1:138:A:LYS:HG3	17	0.84
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	7	0.84
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	16	0.84
(2,114)	1:122:A:ASN:HB3	1:125:A:VAL:HG12	16	0.84
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	17	0.84
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	14	0.84
(2,61)	1:170:A:ARG:HD3	1:169:A:VAL:HG11	15	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD12	19	0.84
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG21	4	0.84
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG22	5	0.84
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG11	17	0.84
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD13	8	0.84
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD12	20	0.84
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD13	8	0.84
(1,858)	1:130:A:ALA:HB1	1:128:A:LEU:HD22	2	0.84
(1,858)	1:130:A:ALA:HB2	1:128:A:LEU:HD23	4	0.84
(1,858)	1:130:A:ALA:HB3	1:128:A:LEU:HD21	18	0.84
(1,858)	1:130:A:ALA:HB3	1:128:A:LEU:HD23	20	0.84
(1,823)	1:174:A:THR:HG22	1:180:A:LEU:HD13	10	0.84
(1,687)	1:197:A:LEU:HD12	1:176:A:ASP:HB3	8	0.84
(1,678)	1:173:A:LEU:HD11	1:183:A:ILE:HA	17	0.84
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG11	2	0.84
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG11	20	0.84
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG21	1	0.84
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG23	20	0.84
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	4	0.84
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	17	0.84
(1,379)	1:173:A:LEU:HB2	1:180:A:LEU:HD13	6	0.84
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	17	0.84
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	12	0.84
(2,277)	1:128:A:LEU:HB3	1:147:A:VAL:HG22	14	0.83
(2,277)	1:128:A:LEU:HB3	1:147:A:VAL:HG21	17	0.83
(2,272)	1:136:A:VAL:HG23	1:137:A:SER:HB2	13	0.83
(2,256)	1:136:A:VAL:HG11	1:138:A:LYS:HG3	20	0.83
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	6	0.83
(2,87)	1:126:A:LYS:HD2	1:126:A:LYS:HE3	13	0.83
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	9	0.83
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	12	0.83
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD12	13	0.83
(1,858)	1:130:A:ALA:HB1	1:128:A:LEU:HD22	1	0.83
(1,858)	1:130:A:ALA:HB3	1:128:A:LEU:HD22	6	0.83
(1,823)	1:174:A:THR:HG23	1:180:A:LEU:HD12	7	0.83
(1,823)	1:174:A:THR:HG23	1:180:A:LEU:HD11	14	0.83
(1,795)	1:182:A:THR:HG23	1:193:A:GLY:HA3	13	0.83
(1,687)	1:197:A:LEU:HD13	1:176:A:ASP:HB3	15	0.83
(1,678)	1:173:A:LEU:HD12	1:183:A:ILE:HA	2	0.83
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG11	6	0.83
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB3	3	0.83
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB1	5	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB1	19	0.83
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG21	9	0.83
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG21	10	0.83
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	14	0.83
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	17	0.83
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG13	10	0.83
(2,272)	1:136:A:VAL:HG23	1:137:A:SER:HB2	8	0.82
(2,256)	1:136:A:VAL:HG11	1:138:A:LYS:HG3	11	0.82
(2,256)	1:136:A:VAL:HG13	1:138:A:LYS:HG3	16	0.82
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB3	2	0.82
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	4	0.82
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	8	0.82
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	17	0.82
(2,193)	1:139:A:MET:HG3	1:146:A:THR:HG22	7	0.82
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	1	0.82
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	11	0.82
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD11	2	0.82
(1,858)	1:130:A:ALA:HB1	1:128:A:LEU:HD23	11	0.82
(1,756)	1:131:A:THR:HG21	1:127:A:LEU:HA	15	0.82
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG12	8	0.82
(1,290)	1:130:A:ALA:HA	1:129:A:GLU:HB3	20	0.82
(2,256)	1:136:A:VAL:HG13	1:138:A:LYS:HG3	6	0.81
(2,256)	1:136:A:VAL:HG11	1:138:A:LYS:HG3	12	0.81
(2,256)	1:136:A:VAL:HG12	1:138:A:LYS:HG3	19	0.81
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB3	9	0.81
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB3	10	0.81
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	11	0.81
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	18	0.81
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	19	0.81
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	20	0.81
(2,230)	1:144:A:GLU:H	1:141:A:ARG:HG3	1	0.81
(2,193)	1:139:A:MET:HG3	1:146:A:THR:HG22	5	0.81
(2,193)	1:139:A:MET:HG2	1:146:A:THR:HG23	19	0.81
(2,151)	1:168:A:GLN:HG2	1:169:A:VAL:HG21	2	0.81
(2,114)	1:122:A:ASN:HB2	1:125:A:VAL:HG21	7	0.81
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	3	0.81
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	11	0.81
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	20	0.81
(1,1057)	1:111:A:VAL:H	1:111:A:VAL:HG11	8	0.81
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	17	0.81
(1,941)	1:155:A:ILE:HD13	1:154:A:MET:HA	6	0.81
(1,858)	1:130:A:ALA:HB1	1:128:A:LEU:HD21	13	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,858)	1:130:A:ALA:HB3	1:128:A:LEU:HD23	17	0.81
(1,858)	1:130:A:ALA:HB2	1:128:A:LEU:HD22	19	0.81
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG12	20	0.81
(1,702)	1:128:A:LEU:HD12	1:134:A:ARG:HA	6	0.81
(1,702)	1:128:A:LEU:HD12	1:134:A:ARG:HA	18	0.81
(1,682)	1:141:A:ARG:HG3	1:155:A:ILE:HD13	7	0.81
(1,678)	1:173:A:LEU:HD13	1:183:A:ILE:HA	1	0.81
(1,678)	1:173:A:LEU:HD11	1:183:A:ILE:HA	5	0.81
(1,678)	1:173:A:LEU:HD12	1:183:A:ILE:HA	11	0.81
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG11	12	0.81
(1,360)	1:167:A:GLY:HA2	1:158:A:PRO:HA	9	0.81
(2,277)	1:128:A:LEU:HB3	1:147:A:VAL:HG21	2	0.8
(2,277)	1:128:A:LEU:HB3	1:147:A:VAL:HG21	9	0.8
(2,272)	1:136:A:VAL:HG21	1:137:A:SER:HB2	19	0.8
(2,256)	1:136:A:VAL:HG12	1:138:A:LYS:HG3	13	0.8
(2,256)	1:136:A:VAL:HG11	1:138:A:LYS:HG3	15	0.8
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	5	0.8
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	12	0.8
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	15	0.8
(2,208)	1:126:A:LYS:HD2	1:122:A:ASN:HB3	1	0.8
(2,101)	1:152:A:ILE:HG12	1:128:A:LEU:HB3	20	0.8
(2,87)	1:126:A:LYS:HD2	1:126:A:LYS:HE3	1	0.8
(2,87)	1:126:A:LYS:HD2	1:126:A:LYS:HE3	18	0.8
(2,87)	1:126:A:LYS:HD2	1:126:A:LYS:HE3	19	0.8
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	6	0.8
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD12	17	0.8
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD12	18	0.8
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD13	12	0.8
(1,941)	1:155:A:ILE:HD11	1:154:A:MET:HA	7	0.8
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD13	15	0.8
(1,874)	1:183:A:ILE:HG22	1:113:A:LEU:HD22	17	0.8
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG23	19	0.8
(1,756)	1:131:A:THR:HG21	1:127:A:LEU:HA	16	0.8
(1,687)	1:197:A:LEU:HD11	1:176:A:ASP:HB3	13	0.8
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG12	11	0.8
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB1	1	0.8
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB2	12	0.8
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG23	16	0.8
(1,450)	1:129:A:GLU:HG3	1:128:A:LEU:HD12	3	0.8
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	16	0.8
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD11	4	0.8
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG22	4	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,68)	1:158:A:PRO:HA	1:159:A:PHE:HB2	19	0.8
(2,256)	1:136:A:VAL:HG12	1:138:A:LYS:HG3	1	0.79
(2,256)	1:136:A:VAL:HG11	1:138:A:LYS:HG3	14	0.79
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	9	0.79
(2,193)	1:139:A:MET:HG3	1:146:A:THR:HG22	9	0.79
(2,193)	1:139:A:MET:HG3	1:146:A:THR:HG23	12	0.79
(2,193)	1:139:A:MET:HG2	1:146:A:THR:HG21	16	0.79
(2,101)	1:152:A:ILE:HG12	1:128:A:LEU:HB3	12	0.79
(2,87)	1:126:A:LYS:HD2	1:126:A:LYS:HE3	3	0.79
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	8	0.79
(2,64)	1:170:A:ARG:HD2	1:186:A:MET:HG2	17	0.79
(2,62)	1:170:A:ARG:HD3	1:187:A:GLU:HG3	2	0.79
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	1	0.79
(1,1216)	1:177:A:GLY:H	1:175:A:PHE:HB3	15	0.79
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG12	1	0.79
(1,1073)	1:169:A:VAL:H	1:168:A:GLN:HG3	6	0.79
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD13	1	0.79
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD13	9	0.79
(1,937)	1:119:A:ILE:HD12	1:180:A:LEU:HD23	15	0.79
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD13	1	0.79
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD12	9	0.79
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD13	12	0.79
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD11	14	0.79
(1,858)	1:130:A:ALA:HB1	1:128:A:LEU:HD23	3	0.79
(1,687)	1:197:A:LEU:HD12	1:176:A:ASP:HB3	9	0.79
(1,678)	1:173:A:LEU:HD12	1:183:A:ILE:HA	4	0.79
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG11	14	0.79
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG22	12	0.79
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	14	0.79
(2,272)	1:136:A:VAL:HG23	1:137:A:SER:HB2	14	0.78
(2,272)	1:136:A:VAL:HG23	1:137:A:SER:HB2	15	0.78
(2,261)	1:171:A:ALA:HB2	1:186:A:MET:HG2	9	0.78
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	7	0.78
(2,193)	1:139:A:MET:HG3	1:146:A:THR:HG21	6	0.78
(2,152)	1:168:A:GLN:HG3	1:155:A:ILE:HG22	19	0.78
(2,101)	1:152:A:ILE:HG12	1:128:A:LEU:HB3	1	0.78
(2,101)	1:152:A:ILE:HG12	1:128:A:LEU:HB3	14	0.78
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD11	11	0.78
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD11	14	0.78
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD13	15	0.78
(1,1073)	1:169:A:VAL:H	1:168:A:GLN:HG3	8	0.78
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD12	7	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,937)	1:119:A:ILE:HD13	1:180:A:LEU:HD23	13	0.78
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD11	2	0.78
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG22	4	0.78
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG22	14	0.78
(1,756)	1:131:A:THR:HG22	1:127:A:LEU:HA	6	0.78
(1,756)	1:131:A:THR:HG22	1:127:A:LEU:HA	13	0.78
(1,686)	1:197:A:LEU:HD13	1:197:A:LEU:HA	19	0.78
(1,547)	1:167:A:GLY:HA2	1:158:A:PRO:HB3	7	0.78
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	5	0.78
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	6	0.78
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	8	0.78
(1,383)	1:180:A:LEU:HB3	1:119:A:ILE:HG13	3	0.78
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD13	8	0.78
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB1	6	0.78
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG21	10	0.78
(1,156)	1:126:A:LYS:HA	1:129:A:GLU:HG2	13	0.78
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	14	0.78
(2,262)	1:113:A:LEU:HD22	1:180:A:LEU:HD12	11	0.77
(2,261)	1:171:A:ALA:HB3	1:186:A:MET:HG2	3	0.77
(2,256)	1:136:A:VAL:HG13	1:138:A:LYS:HG3	3	0.77
(2,256)	1:136:A:VAL:HG12	1:138:A:LYS:HG3	4	0.77
(2,256)	1:136:A:VAL:HG12	1:138:A:LYS:HG3	18	0.77
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	3	0.77
(2,230)	1:141:A:ARG:HG2	1:144:A:GLU:H	13	0.77
(2,200)	1:154:A:MET:HG2	1:173:A:LEU:HD21	8	0.77
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD23	7	0.77
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD11	16	0.77
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB2	7	0.77
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	14	0.77
(2,93)	1:163:A:ASP:HB3	1:161:A:PHE:HD2	13	0.77
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	8	0.77
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	14	0.77
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD11	6	0.77
(1,868)	1:155:A:ILE:HG22	1:171:A:ALA:H	12	0.77
(1,756)	1:131:A:THR:HG22	1:127:A:LEU:HA	10	0.77
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG21	4	0.77
(1,702)	1:128:A:LEU:HD13	1:134:A:ARG:HA	5	0.77
(1,702)	1:128:A:LEU:HD12	1:134:A:ARG:HA	19	0.77
(1,686)	1:197:A:LEU:HD12	1:197:A:LEU:HA	15	0.77
(1,678)	1:173:A:LEU:HD13	1:183:A:ILE:HA	7	0.77
(1,678)	1:173:A:LEU:HD12	1:183:A:ILE:HA	18	0.77
(1,360)	1:167:A:GLY:HA2	1:158:A:PRO:HA	20	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,353)	1:193:A:GLY:HA2	1:184:A:VAL:HG13	10	0.77
(1,156)	1:126:A:LYS:HA	1:129:A:GLU:HG2	14	0.77
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	19	0.77
(1,2)	1:182:A:THR:HB	1:193:A:GLY:HA3	13	0.77
(2,278)	1:174:A:THR:HG21	1:197:A:LEU:HB2	17	0.76
(2,267)	1:113:A:LEU:HD11	1:117:A:MET:HB3	9	0.76
(2,267)	1:113:A:LEU:HD21	1:117:A:MET:HB3	13	0.76
(2,262)	1:113:A:LEU:HD21	1:180:A:LEU:HD13	15	0.76
(2,261)	1:171:A:ALA:HB2	1:186:A:MET:HG2	2	0.76
(2,256)	1:136:A:VAL:HG12	1:138:A:LYS:HG3	5	0.76
(2,256)	1:136:A:VAL:HG13	1:138:A:LYS:HG3	10	0.76
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	6	0.76
(2,64)	1:170:A:ARG:HD2	1:186:A:MET:HG2	14	0.76
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG12	16	0.76
(1,937)	1:119:A:ILE:HD13	1:180:A:LEU:HD23	5	0.76
(1,907)	1:152:A:ILE:HD13	1:124:A:MET:HA	2	0.76
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD13	3	0.76
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD11	16	0.76
(1,868)	1:155:A:ILE:HG21	1:171:A:ALA:H	1	0.76
(1,868)	1:155:A:ILE:HG23	1:171:A:ALA:H	2	0.76
(1,816)	1:136:A:VAL:HG22	1:147:A:VAL:H	13	0.76
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD22	10	0.76
(1,756)	1:131:A:THR:HG21	1:127:A:LEU:HA	2	0.76
(1,702)	1:128:A:LEU:HD12	1:134:A:ARG:HA	2	0.76
(1,702)	1:128:A:LEU:HD13	1:134:A:ARG:HA	4	0.76
(1,494)	1:117:A:MET:HB2	1:180:A:LEU:HB3	18	0.76
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG23	19	0.76
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	20	0.76
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	13	0.76
(1,213)	1:167:A:GLY:H	1:166:A:GLU:HA	3	0.76
(2,278)	1:174:A:THR:HG23	1:197:A:LEU:HB2	5	0.75
(2,277)	1:128:A:LEU:HB3	1:147:A:VAL:HG21	4	0.75
(2,277)	1:128:A:LEU:HB3	1:147:A:VAL:HG23	10	0.75
(2,277)	1:174:A:THR:HG23	1:182:A:THR:HG21	11	0.75
(2,277)	1:128:A:LEU:HB3	1:147:A:VAL:HG22	12	0.75
(2,272)	1:136:A:VAL:HG21	1:137:A:SER:HB2	10	0.75
(2,272)	1:136:A:VAL:HG23	1:137:A:SER:HB2	16	0.75
(2,261)	1:171:A:ALA:HB1	1:186:A:MET:HG2	5	0.75
(2,256)	1:136:A:VAL:HG11	1:138:A:LYS:HG3	8	0.75
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	13	0.75
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	11	0.75
(2,193)	1:139:A:MET:HG2	1:146:A:THR:HG23	15	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,193)	1:139:A:MET:HG2	1:146:A:THR:HG22	20	0.75
(2,152)	1:168:A:GLN:HG3	1:155:A:ILE:HG23	5	0.75
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD13	12	0.75
(2,114)	1:122:A:ASN:HB2	1:125:A:VAL:HG22	11	0.75
(2,93)	1:163:A:ASP:HB3	1:161:A:PHE:HD2	2	0.75
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG13	14	0.75
(1,1167)	1:159:A:PHE:H	1:159:A:PHE:HB2	11	0.75
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	9	0.75
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD11	3	0.75
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD11	4	0.75
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD12	5	0.75
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD13	11	0.75
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD12	20	0.75
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD23	3	0.75
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD23	9	0.75
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD21	18	0.75
(1,756)	1:131:A:THR:HG22	1:127:A:LEU:HA	11	0.75
(1,756)	1:131:A:THR:HG23	1:127:A:LEU:HA	18	0.75
(1,702)	1:128:A:LEU:HD11	1:134:A:ARG:HA	9	0.75
(1,572)	1:153:A:GLU:HB3	1:139:A:MET:HG3	17	0.75
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB2	18	0.75
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG22	5	0.75
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	1	0.75
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	18	0.75
(1,436)	1:189:A:ASN:H	1:189:A:ASN:HB3	18	0.75
(1,64)	1:137:A:SER:HB3	1:138:A:LYS:HG2	7	0.75
(2,278)	1:174:A:THR:HG23	1:197:A:LEU:HB2	11	0.74
(2,272)	1:136:A:VAL:HG22	1:137:A:SER:HB2	18	0.74
(2,262)	1:113:A:LEU:HD22	1:180:A:LEU:HD13	2	0.74
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD23	10	0.74
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG22	2	0.74
(2,101)	1:152:A:ILE:HG12	1:128:A:LEU:HB3	11	0.74
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG13	6	0.74
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG12	14	0.74
(1,1167)	1:159:A:PHE:H	1:159:A:PHE:HB2	12	0.74
(1,1047)	1:176:A:ASP:H	1:176:A:ASP:HB2	10	0.74
(1,937)	1:119:A:ILE:HD13	1:180:A:LEU:HD21	18	0.74
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD13	12	0.74
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD13	7	0.74
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD12	8	0.74
(1,874)	1:183:A:ILE:HG22	1:113:A:LEU:HD21	15	0.74
(1,874)	1:183:A:ILE:HG21	1:113:A:LEU:HD23	19	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,868)	1:155:A:ILE:HG23	1:171:A:ALA:H	7	0.74
(1,846)	1:136:A:VAL:HG11	1:146:A:THR:H	16	0.74
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG23	9	0.74
(1,778)	1:146:A:THR:HG23	1:136:A:VAL:HG22	5	0.74
(1,778)	1:146:A:THR:HG23	1:136:A:VAL:HG21	9	0.74
(1,778)	1:146:A:THR:HG23	1:136:A:VAL:HG21	14	0.74
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD22	2	0.74
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD23	4	0.74
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD23	5	0.74
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD23	20	0.74
(1,756)	1:131:A:THR:HG22	1:127:A:LEU:HA	8	0.74
(1,756)	1:131:A:THR:HG21	1:127:A:LEU:HA	12	0.74
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG22	11	0.74
(1,702)	1:128:A:LEU:HD12	1:134:A:ARG:HA	10	0.74
(1,702)	1:128:A:LEU:HD13	1:134:A:ARG:HA	11	0.74
(1,702)	1:128:A:LEU:HD11	1:134:A:ARG:HA	20	0.74
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB3	7	0.74
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB3	17	0.74
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	16	0.74
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	16	0.74
(2,277)	1:174:A:THR:HG23	1:182:A:THR:HG23	3	0.73
(2,277)	1:128:A:LEU:HB3	1:147:A:VAL:HG23	20	0.73
(2,272)	1:136:A:VAL:HG22	1:137:A:SER:HB2	11	0.73
(2,272)	1:136:A:VAL:HG22	1:137:A:SER:HB2	12	0.73
(2,261)	1:171:A:ALA:HB2	1:186:A:MET:HG2	8	0.73
(2,244)	1:126:A:LYS:HG2	1:124:A:MET:HB2	14	0.73
(2,225)	1:173:A:LEU:H	1:173:A:LEU:HD12	6	0.73
(2,193)	1:139:A:MET:HG3	1:146:A:THR:HG23	3	0.73
(2,190)	1:139:A:MET:H	1:139:A:MET:HG3	10	0.73
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD12	9	0.73
(2,101)	1:147:A:VAL:HB	1:128:A:LEU:HB3	3	0.73
(2,101)	1:152:A:ILE:HG12	1:128:A:LEU:HB3	17	0.73
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD2	19	0.73
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD11	2	0.73
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD13	5	0.73
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD13	20	0.73
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG13	20	0.73
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG13	9	0.73
(1,1167)	1:159:A:PHE:H	1:159:A:PHE:HB2	15	0.73
(1,1073)	1:169:A:VAL:H	1:168:A:GLN:HG3	13	0.73
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	1	0.73
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	20	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD13	15	0.73
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD13	17	0.73
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD13	18	0.73
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD11	19	0.73
(1,897)	1:119:A:ILE:HG21	1:127:A:LEU:HD11	12	0.73
(1,778)	1:146:A:THR:HG21	1:136:A:VAL:HG22	10	0.73
(1,778)	1:146:A:THR:HG22	1:136:A:VAL:HG23	18	0.73
(1,756)	1:131:A:THR:HG22	1:127:A:LEU:HA	1	0.73
(1,756)	1:131:A:THR:HG22	1:127:A:LEU:HA	7	0.73
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG21	17	0.73
(1,702)	1:128:A:LEU:HD12	1:134:A:ARG:HA	7	0.73
(1,702)	1:128:A:LEU:HD11	1:134:A:ARG:HA	12	0.73
(1,702)	1:128:A:LEU:HD13	1:134:A:ARG:HA	14	0.73
(1,687)	1:197:A:LEU:HD12	1:176:A:ASP:HB3	20	0.73
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	14	0.73
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG22	9	0.73
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	12	0.73
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	10	0.73
(1,443)	1:122:A:ASN:HB3	1:122:A:ASN:H	4	0.73
(1,443)	1:122:A:ASN:HB3	1:122:A:ASN:H	15	0.73
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG21	15	0.73
(2,277)	1:128:A:LEU:HB3	1:147:A:VAL:HG23	18	0.72
(2,272)	1:136:A:VAL:HG22	1:137:A:SER:HB2	1	0.72
(2,272)	1:136:A:VAL:HG21	1:137:A:SER:HB2	4	0.72
(2,272)	1:136:A:VAL:HG21	1:137:A:SER:HB2	5	0.72
(2,272)	1:136:A:VAL:HG21	1:137:A:SER:HB2	6	0.72
(2,272)	1:136:A:VAL:HG23	1:137:A:SER:HB2	17	0.72
(2,256)	1:136:A:VAL:HG11	1:138:A:LYS:HG3	7	0.72
(2,230)	1:144:A:GLU:H	1:141:A:ARG:HG3	6	0.72
(2,193)	1:139:A:MET:HG2	1:146:A:THR:HG21	17	0.72
(2,193)	1:139:A:MET:HG2	1:146:A:THR:HG21	18	0.72
(2,156)	1:168:A:GLN:HG3	1:155:A:ILE:HD12	12	0.72
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	4	0.72
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	18	0.72
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB3	9	0.72
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG13	11	0.72
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD13	20	0.72
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB2	14	0.72
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB3	16	0.72
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD11	3	0.72
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD12	7	0.72
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD12	13	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,937)	1:119:A:ILE:HD12	1:180:A:LEU:HD21	3	0.72
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD13	1	0.72
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD12	9	0.72
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD13	17	0.72
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD12	20	0.72
(1,874)	1:183:A:ILE:HG21	1:113:A:LEU:HD22	5	0.72
(1,868)	1:155:A:ILE:HG21	1:171:A:ALA:H	5	0.72
(1,868)	1:155:A:ILE:HG23	1:171:A:ALA:H	6	0.72
(1,816)	1:136:A:VAL:HG23	1:147:A:VAL:H	6	0.72
(1,778)	1:146:A:THR:HG23	1:136:A:VAL:HG21	20	0.72
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD23	11	0.72
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD21	13	0.72
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD23	17	0.72
(1,756)	1:131:A:THR:HG22	1:127:A:LEU:HA	19	0.72
(1,756)	1:131:A:THR:HG22	1:127:A:LEU:HA	20	0.72
(1,702)	1:128:A:LEU:HD12	1:134:A:ARG:HA	13	0.72
(1,702)	1:128:A:LEU:HD11	1:134:A:ARG:HA	15	0.72
(1,678)	1:173:A:LEU:HD13	1:183:A:ILE:HA	8	0.72
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	2	0.72
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	5	0.72
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	9	0.72
(1,547)	1:167:A:GLY:HA2	1:158:A:PRO:HB3	9	0.72
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG21	14	0.72
(1,479)	1:169:A:VAL:HB	1:156:A:ARG:HB3	16	0.72
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	19	0.72
(1,443)	1:122:A:ASN:HB3	1:122:A:ASN:H	8	0.72
(1,156)	1:126:A:LYS:HA	1:129:A:GLU:HG2	7	0.72
(1,156)	1:126:A:LYS:HA	1:129:A:GLU:HG2	8	0.72
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG22	9	0.72
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG23	10	0.72
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG11	20	0.72
(2,272)	1:136:A:VAL:HG23	1:137:A:SER:HB2	9	0.71
(2,267)	1:113:A:LEU:HD22	1:117:A:MET:HB3	15	0.71
(2,267)	1:113:A:LEU:HD11	1:117:A:MET:HB3	16	0.71
(2,256)	1:136:A:VAL:HG11	1:138:A:LYS:HG3	9	0.71
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	13	0.71
(2,101)	1:147:A:VAL:HB	1:128:A:LEU:HB3	13	0.71
(2,93)	1:163:A:ASP:HB3	1:161:A:PHE:HD1	15	0.71
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	2	0.71
(2,64)	1:170:A:ARG:HD2	1:186:A:MET:HG2	20	0.71
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD11	3	0.71
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB1	20	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD11	2	0.71
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD12	5	0.71
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD13	10	0.71
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD13	11	0.71
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD11	14	0.71
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD11	16	0.71
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD13	10	0.71
(1,868)	1:155:A:ILE:HG21	1:171:A:ALA:H	13	0.71
(1,848)	1:155:A:ILE:HG23	1:145:A:PHE:HD1	8	0.71
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG22	20	0.71
(1,778)	1:146:A:THR:HG23	1:136:A:VAL:HG23	1	0.71
(1,778)	1:146:A:THR:HG22	1:136:A:VAL:HG22	4	0.71
(1,778)	1:146:A:THR:HG21	1:136:A:VAL:HG21	8	0.71
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD22	15	0.71
(1,756)	1:131:A:THR:HG23	1:127:A:LEU:HA	14	0.71
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG22	20	0.71
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD12	3	0.71
(1,678)	1:173:A:LEU:HD13	1:183:A:ILE:HA	19	0.71
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	8	0.71
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	19	0.71
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB1	4	0.71
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB2	9	0.71
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB1	14	0.71
(1,517)	1:135:A:GLN:HG2	1:146:A:THR:HA	13	0.71
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	13	0.71
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	14	0.71
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	8	0.71
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	19	0.71
(1,450)	1:129:A:GLU:HG3	1:128:A:LEU:HD11	5	0.71
(1,450)	1:129:A:GLU:HG3	1:128:A:LEU:HD11	11	0.71
(1,450)	1:129:A:GLU:HG3	1:128:A:LEU:HD11	17	0.71
(1,450)	1:129:A:GLU:HG3	1:128:A:LEU:HD13	18	0.71
(1,450)	1:129:A:GLU:HG3	1:128:A:LEU:HD12	20	0.71
(1,443)	1:122:A:ASN:HB3	1:122:A:ASN:H	5	0.71
(1,443)	1:122:A:ASN:HB3	1:122:A:ASN:H	19	0.71
(1,400)	1:163:A:ASP:HB2	1:162:A:PRO:HB2	16	0.71
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	2	0.71
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	13	0.71
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	20	0.71
(1,156)	1:126:A:LYS:HA	1:129:A:GLU:HG2	12	0.71
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG23	3	0.71
(1,6)	1:133:A:TYR:HD1	1:128:A:LEU:HG	16	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,278)	1:174:A:THR:HG21	1:197:A:LEU:HB2	14	0.7
(2,262)	1:113:A:LEU:HD21	1:180:A:LEU:HD13	20	0.7
(2,193)	1:139:A:MET:HG3	1:146:A:THR:HG22	1	0.7
(2,193)	1:139:A:MET:HG3	1:146:A:THR:HG23	2	0.7
(2,193)	1:139:A:MET:HG2	1:146:A:THR:HG21	11	0.7
(2,156)	1:168:A:GLN:HG3	1:155:A:ILE:HD11	19	0.7
(2,151)	1:168:A:GLN:HG2	1:169:A:VAL:HG21	1	0.7
(2,120)	1:153:A:GLU:HG3	1:152:A:ILE:HG23	3	0.7
(2,61)	1:170:A:ARG:HD2	1:169:A:VAL:HG12	19	0.7
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD12	7	0.7
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB2	16	0.7
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG12	3	0.7
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD13	2	0.7
(1,1073)	1:169:A:VAL:H	1:168:A:GLN:HG3	14	0.7
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	12	0.7
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	16	0.7
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD13	1	0.7
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD11	4	0.7
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD13	5	0.7
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD13	9	0.7
(1,937)	1:119:A:ILE:HD13	1:180:A:LEU:HD23	10	0.7
(1,937)	1:119:A:ILE:HD11	1:180:A:LEU:HD22	19	0.7
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD13	18	0.7
(1,903)	1:152:A:ILE:HD12	1:175:A:PHE:HE1	16	0.7
(1,874)	1:183:A:ILE:HG23	1:113:A:LEU:HD23	20	0.7
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG22	7	0.7
(1,868)	1:155:A:ILE:HG22	1:171:A:ALA:H	4	0.7
(1,868)	1:155:A:ILE:HG23	1:171:A:ALA:H	8	0.7
(1,868)	1:155:A:ILE:HG22	1:171:A:ALA:H	9	0.7
(1,846)	1:136:A:VAL:HG13	1:146:A:THR:H	17	0.7
(1,846)	1:136:A:VAL:HG13	1:146:A:THR:H	19	0.7
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG11	9	0.7
(1,778)	1:146:A:THR:HG21	1:136:A:VAL:HG23	12	0.7
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD22	6	0.7
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD21	16	0.7
(1,756)	1:131:A:THR:HG21	1:127:A:LEU:HA	17	0.7
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG21	5	0.7
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG23	18	0.7
(1,687)	1:197:A:LEU:HD11	1:176:A:ASP:HB3	5	0.7
(1,687)	1:197:A:LEU:HD13	1:176:A:ASP:HB3	16	0.7
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	10	0.7
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB2	13	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,517)	1:135:A:GLN:HG2	1:146:A:THR:HA	16	0.7
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD13	13	0.7
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	7	0.7
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	15	0.7
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	4	0.7
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	6	0.7
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	9	0.7
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	11	0.7
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	15	0.7
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	17	0.7
(1,450)	1:129:A:GLU:HG3	1:128:A:LEU:HD13	2	0.7
(1,450)	1:129:A:GLU:HG3	1:128:A:LEU:HD11	4	0.7
(1,443)	1:122:A:ASN:HB3	1:122:A:ASN:H	3	0.7
(1,443)	1:122:A:ASN:HB3	1:122:A:ASN:H	16	0.7
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	15	0.7
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG23	13	0.7
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	17	0.7
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	13	0.7
(2,278)	1:174:A:THR:HG23	1:197:A:LEU:HB2	12	0.69
(2,278)	1:174:A:THR:HG21	1:197:A:LEU:HB2	19	0.69
(2,277)	1:128:A:LEU:HB3	1:147:A:VAL:HG22	5	0.69
(2,272)	1:136:A:VAL:HG23	1:137:A:SER:HB2	3	0.69
(2,272)	1:136:A:VAL:HG23	1:137:A:SER:HB2	20	0.69
(2,176)	1:114:A:GLU:HB2	1:183:A:ILE:HD12	18	0.69
(2,151)	1:168:A:GLN:HG2	1:169:A:VAL:HG22	20	0.69
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD23	4	0.69
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD21	14	0.69
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD23	17	0.69
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	8	0.69
(2,101)	1:152:A:ILE:HG12	1:128:A:LEU:HB3	4	0.69
(2,101)	1:152:A:ILE:HG12	1:128:A:LEU:HB3	16	0.69
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	13	0.69
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	14	0.69
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	19	0.69
(2,64)	1:170:A:ARG:HD2	1:186:A:MET:HG2	13	0.69
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	20	0.69
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD22	6	0.69
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD11	14	0.69
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG11	9	0.69
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG12	10	0.69
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG13	5	0.69
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG11	7	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG13	20	0.69
(1,1176)	1:114:A:GLU:H	1:114:A:GLU:HB2	5	0.69
(1,1156)	1:168:A:GLN:H	1:168:A:GLN:HB3	4	0.69
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD12	17	0.69
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	11	0.69
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD11	6	0.69
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD12	12	0.69
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD11	4	0.69
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG22	16	0.69
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG23	18	0.69
(1,868)	1:155:A:ILE:HG22	1:171:A:ALA:H	3	0.69
(1,868)	1:155:A:ILE:HG23	1:171:A:ALA:H	15	0.69
(1,868)	1:155:A:ILE:HG23	1:171:A:ALA:H	16	0.69
(1,868)	1:155:A:ILE:HG23	1:171:A:ALA:H	18	0.69
(1,868)	1:155:A:ILE:HG22	1:171:A:ALA:H	20	0.69
(1,846)	1:136:A:VAL:HG12	1:146:A:THR:H	11	0.69
(1,846)	1:136:A:VAL:HG12	1:146:A:THR:H	15	0.69
(1,816)	1:136:A:VAL:HG23	1:147:A:VAL:H	10	0.69
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG22	2	0.69
(1,778)	1:146:A:THR:HG23	1:136:A:VAL:HG22	7	0.69
(1,778)	1:146:A:THR:HG21	1:136:A:VAL:HG21	15	0.69
(1,773)	1:128:A:LEU:HD23	1:127:A:LEU:HB3	9	0.69
(1,773)	1:128:A:LEU:HD22	1:127:A:LEU:HB3	10	0.69
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD21	7	0.69
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD23	12	0.69
(1,756)	1:131:A:THR:HG21	1:127:A:LEU:HA	5	0.69
(1,702)	1:128:A:LEU:HD11	1:134:A:ARG:HA	16	0.69
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	11	0.69
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	13	0.69
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	17	0.69
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	19	0.69
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	18	0.69
(1,517)	1:135:A:GLN:HG2	1:146:A:THR:HA	19	0.69
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	17	0.69
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	1	0.69
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	2	0.69
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	3	0.69
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	12	0.69
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	13	0.69
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	18	0.69
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	20	0.69
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	12	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,443)	1:122:A:ASN:HB3	1:122:A:ASN:H	2	0.69
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG21	16	0.69
(1,240)	1:135:A:GLN:HA	1:147:A:VAL:HG21	3	0.69
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG22	13	0.69
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG11	8	0.69
(2,278)	1:174:A:THR:HG23	1:197:A:LEU:HB2	13	0.68
(2,262)	1:113:A:LEU:HD23	1:180:A:LEU:HD11	1	0.68
(2,261)	1:171:A:ALA:HB1	1:186:A:MET:HG2	20	0.68
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG3	19	0.68
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	3	0.68
(2,152)	1:168:A:GLN:HG3	1:155:A:ILE:HG21	12	0.68
(2,151)	1:168:A:GLN:HG2	1:169:A:VAL:HG21	9	0.68
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD22	3	0.68
(2,114)	1:122:A:ASN:HB2	1:125:A:VAL:HG22	9	0.68
(2,101)	1:152:A:ILE:HG12	1:128:A:LEU:HB3	18	0.68
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	16	0.68
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG13	1	0.68
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG12	2	0.68
(1,973)	1:171:A:ALA:H	1:170:A:ARG:HD2	1	0.68
(1,973)	1:171:A:ALA:H	1:170:A:ARG:HD2	16	0.68
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB2	1	0.68
(1,937)	1:119:A:ILE:HD13	1:180:A:LEU:HD23	17	0.68
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD11	18	0.68
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG23	2	0.68
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG22	3	0.68
(1,868)	1:155:A:ILE:HG22	1:171:A:ALA:H	10	0.68
(1,816)	1:136:A:VAL:HG21	1:147:A:VAL:H	2	0.68
(1,816)	1:136:A:VAL:HG23	1:147:A:VAL:H	19	0.68
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG22	11	0.68
(1,778)	1:146:A:THR:HG21	1:136:A:VAL:HG23	2	0.68
(1,778)	1:146:A:THR:HG22	1:136:A:VAL:HG22	6	0.68
(1,778)	1:146:A:THR:HG22	1:136:A:VAL:HG21	17	0.68
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG21	2	0.68
(1,737)	1:171:A:ALA:HB2	1:192:A:PHE:HE1	12	0.68
(1,702)	1:128:A:LEU:HD13	1:134:A:ARG:HA	17	0.68
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	18	0.68
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	20	0.68
(1,572)	1:153:A:GLU:HB3	1:139:A:MET:HG3	11	0.68
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG22	5	0.68
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	11	0.68
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	13	0.68
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	19	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	2	0.68
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	7	0.68
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	16	0.68
(1,443)	1:122:A:ASN:HB3	1:122:A:ASN:H	13	0.68
(1,436)	1:189:A:ASN:H	1:189:A:ASN:HB3	10	0.68
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD12	7	0.68
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG23	11	0.68
(1,156)	1:126:A:LYS:HA	1:129:A:GLU:HG2	16	0.68
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG23	2	0.68
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG22	7	0.68
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG22	13	0.68
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	9	0.68
(1,12)	1:194:A:PHE:HD1	1:193:A:GLY:HA3	5	0.68
(2,277)	1:174:A:THR:HG21	1:182:A:THR:HG22	7	0.67
(2,277)	1:174:A:THR:HG21	1:182:A:THR:HG21	8	0.67
(2,272)	1:136:A:VAL:HG22	1:137:A:SER:HB2	2	0.67
(2,261)	1:171:A:ALA:HB1	1:186:A:MET:HG2	1	0.67
(2,261)	1:171:A:ALA:HB1	1:186:A:MET:HG2	4	0.67
(2,261)	1:171:A:ALA:HB3	1:186:A:MET:HG2	6	0.67
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG3	2	0.67
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG3	6	0.67
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG3	7	0.67
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG3	9	0.67
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG2	10	0.67
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG3	12	0.67
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG2	15	0.67
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG3	16	0.67
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG2	17	0.67
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG2	18	0.67
(2,156)	1:168:A:GLN:HG3	1:155:A:ILE:HD13	5	0.67
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	5	0.67
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	17	0.67
(2,114)	1:122:A:ASN:HB2	1:125:A:VAL:HG22	17	0.67
(2,101)	1:147:A:VAL:HB	1:128:A:LEU:HB3	6	0.67
(2,101)	1:152:A:ILE:HG12	1:128:A:LEU:HB3	15	0.67
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	16	0.67
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	5	0.67
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	10	0.67
(2,63)	1:170:A:ARG:HD3	1:171:A:ALA:H	19	0.67
(2,47)	1:160:A:ASP:HA	1:159:A:PHE:HB3	1	0.67
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG12	3	0.67
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD12	5	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	8	0.67
(1,937)	1:119:A:ILE:HD13	1:180:A:LEU:HD22	11	0.67
(1,907)	1:152:A:ILE:HD12	1:124:A:MET:HA	10	0.67
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD13	7	0.67
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD11	13	0.67
(1,874)	1:183:A:ILE:HG23	1:113:A:LEU:HD22	11	0.67
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG22	8	0.67
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG23	20	0.67
(1,778)	1:146:A:THR:HG21	1:136:A:VAL:HG21	3	0.67
(1,778)	1:146:A:THR:HG22	1:136:A:VAL:HG23	11	0.67
(1,773)	1:128:A:LEU:HD22	1:127:A:LEU:HB3	2	0.67
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD21	14	0.67
(1,756)	1:131:A:THR:HG21	1:127:A:LEU:HA	4	0.67
(1,702)	1:128:A:LEU:HD12	1:134:A:ARG:HA	8	0.67
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG23	12	0.67
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	16	0.67
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	20	0.67
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	5	0.67
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	14	0.67
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	16	0.67
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG23	7	0.67
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD21	12	0.67
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	1	0.67
(1,156)	1:126:A:LYS:HA	1:129:A:GLU:HG2	6	0.67
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG23	11	0.67
(1,12)	1:194:A:PHE:HD2	1:193:A:GLY:HA3	18	0.67
(2,277)	1:174:A:THR:HG22	1:182:A:THR:HG22	13	0.66
(2,277)	1:174:A:THR:HG21	1:182:A:THR:HG23	19	0.66
(2,267)	1:113:A:LEU:HD23	1:117:A:MET:HB3	10	0.66
(2,262)	1:113:A:LEU:HD22	1:180:A:LEU:HD13	3	0.66
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG2	5	0.66
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG2	11	0.66
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG2	13	0.66
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG3	20	0.66
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	14	0.66
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	2	0.66
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	11	0.66
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	20	0.66
(2,114)	1:122:A:ASN:HB2	1:125:A:VAL:HG23	12	0.66
(2,101)	1:147:A:VAL:HB	1:128:A:LEU:HB3	7	0.66
(2,101)	1:147:A:VAL:HB	1:128:A:LEU:HB3	8	0.66
(2,93)	1:163:A:ASP:HB3	1:161:A:PHE:HD2	18	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	8	0.66
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	11	0.66
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	14	0.66
(2,61)	1:170:A:ARG:HD3	1:169:A:VAL:HG13	5	0.66
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG12	13	0.66
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD13	11	0.66
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	1	0.66
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	6	0.66
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	8	0.66
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	19	0.66
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	3	0.66
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD13	2	0.66
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD12	8	0.66
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD11	13	0.66
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD11	19	0.66
(1,903)	1:152:A:ILE:HD12	1:175:A:PHE:HE2	13	0.66
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG22	11	0.66
(1,868)	1:155:A:ILE:HG21	1:171:A:ALA:H	11	0.66
(1,868)	1:155:A:ILE:HG22	1:171:A:ALA:H	14	0.66
(1,848)	1:155:A:ILE:HG23	1:145:A:PHE:HD1	7	0.66
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG11	11	0.66
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG21	18	0.66
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	4	0.66
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	6	0.66
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	12	0.66
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG22	1	0.66
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG21	11	0.66
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG22	20	0.66
(1,547)	1:167:A:GLY:HA2	1:158:A:PRO:HB3	2	0.66
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB2	11	0.66
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	6	0.66
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	15	0.66
(1,495)	1:117:A:MET:HB2	1:180:A:LEU:HD11	15	0.66
(1,468)	1:187:A:GLU:HG2	1:187:A:GLU:HB2	10	0.66
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	7	0.66
(1,443)	1:122:A:ASN:HB3	1:122:A:ASN:H	1	0.66
(1,443)	1:122:A:ASN:HB3	1:122:A:ASN:H	20	0.66
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG21	15	0.66
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD23	15	0.66
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	5	0.66
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	9	0.66
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG23	18	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	10	0.66
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG13	6	0.66
(1,12)	1:194:A:PHE:HD2	1:193:A:GLY:HA3	10	0.66
(1,12)	1:194:A:PHE:HD1	1:193:A:GLY:HA3	17	0.66
(2,264)	1:147:A:VAL:HG22	1:152:A:ILE:HG21	12	0.65
(2,261)	1:171:A:ALA:HB2	1:186:A:MET:HG2	11	0.65
(2,261)	1:171:A:ALA:HB2	1:186:A:MET:HG3	16	0.65
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG3	1	0.65
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG2	14	0.65
(2,230)	1:141:A:ARG:HG2	1:144:A:GLU:H	4	0.65
(2,230)	1:141:A:ARG:HG2	1:144:A:GLU:H	7	0.65
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	6	0.65
(2,177)	1:168:A:GLN:HB2	1:158:A:PRO:HB3	7	0.65
(2,152)	1:168:A:GLN:HG3	1:155:A:ILE:HG22	2	0.65
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	10	0.65
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	16	0.65
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD22	2	0.65
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	4	0.65
(2,114)	1:122:A:ASN:HB2	1:125:A:VAL:HG23	6	0.65
(2,93)	1:163:A:ASP:HB3	1:161:A:PHE:HD2	9	0.65
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	10	0.65
(2,61)	1:170:A:ARG:HD3	1:169:A:VAL:HG11	6	0.65
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG11	7	0.65
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG11	16	0.65
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	1	0.65
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	14	0.65
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG12	18	0.65
(1,1062)	1:160:A:ASP:H	1:160:A:ASP:HB2	16	0.65
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB2	4	0.65
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB3	9	0.65
(1,914)	1:183:A:ILE:HD13	1:182:A:THR:H	5	0.65
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD13	3	0.65
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG23	1	0.65
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG23	5	0.65
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG21	9	0.65
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG23	14	0.65
(1,816)	1:136:A:VAL:HG23	1:147:A:VAL:H	7	0.65
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG22	7	0.65
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG21	12	0.65
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG21	18	0.65
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG21	3	0.65
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG23	8	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG23	13	0.65
(1,778)	1:146:A:THR:HG22	1:136:A:VAL:HG21	16	0.65
(1,773)	1:128:A:LEU:HD23	1:127:A:LEU:HB3	3	0.65
(1,773)	1:128:A:LEU:HD21	1:127:A:LEU:HB3	18	0.65
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG23	14	0.65
(1,702)	1:128:A:LEU:HD13	1:134:A:ARG:HA	1	0.65
(1,678)	1:173:A:LEU:HD11	1:183:A:ILE:HA	9	0.65
(1,678)	1:173:A:LEU:HD13	1:183:A:ILE:HA	16	0.65
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	3	0.65
(1,572)	1:153:A:GLU:HB3	1:139:A:MET:HG3	18	0.65
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	1	0.65
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG23	8	0.65
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG22	13	0.65
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG23	15	0.65
(1,517)	1:135:A:GLN:HG2	1:146:A:THR:HA	3	0.65
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	8	0.65
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	11	0.65
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	1	0.65
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD13	9	0.65
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG22	19	0.65
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD21	7	0.65
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	18	0.65
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG22	14	0.65
(1,156)	1:126:A:LYS:HA	1:129:A:GLU:HG2	9	0.65
(1,156)	1:126:A:LYS:HA	1:129:A:GLU:HG2	19	0.65
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG23	14	0.65
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG12	9	0.65
(1,6)	1:133:A:TYR:HD2	1:128:A:LEU:HG	12	0.65
(2,261)	1:171:A:ALA:HB3	1:186:A:MET:HG2	7	0.64
(2,261)	1:171:A:ALA:HB1	1:186:A:MET:HG3	10	0.64
(2,261)	1:171:A:ALA:HB2	1:186:A:MET:HG2	13	0.64
(2,261)	1:171:A:ALA:HB3	1:186:A:MET:HG2	17	0.64
(2,261)	1:171:A:ALA:HB2	1:186:A:MET:HG3	18	0.64
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG3	3	0.64
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG2	4	0.64
(2,252)	1:138:A:LYS:HA	1:138:A:LYS:HG2	8	0.64
(2,151)	1:168:A:GLN:HG2	1:169:A:VAL:HG23	17	0.64
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	6	0.64
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	8	0.64
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	13	0.64
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	19	0.64
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD21	20	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	9	0.64
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	17	0.64
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	18	0.64
(2,114)	1:122:A:ASN:HB2	1:125:A:VAL:HG21	18	0.64
(2,101)	1:147:A:VAL:HB	1:128:A:LEU:HB3	19	0.64
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	13	0.64
(2,61)	1:170:A:ARG:HD3	1:169:A:VAL:HG12	18	0.64
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG12	5	0.64
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG11	13	0.64
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB2	17	0.64
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	8	0.64
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	16	0.64
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	9	0.64
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG13	17	0.64
(1,1138)	1:152:A:ILE:H	1:173:A:LEU:HD11	1	0.64
(1,1136)	1:152:A:ILE:H	1:151:A:SER:HB3	13	0.64
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	7	0.64
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	9	0.64
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	13	0.64
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	2	0.64
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD11	15	0.64
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB1	7	0.64
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB3	12	0.64
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB1	17	0.64
(1,944)	1:140:A:THR:HB	1:155:A:ILE:HD13	8	0.64
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD11	11	0.64
(1,907)	1:152:A:ILE:HD13	1:124:A:MET:HA	9	0.64
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD12	6	0.64
(1,897)	1:119:A:ILE:HG23	1:127:A:LEU:HD12	9	0.64
(1,874)	1:183:A:ILE:HG21	1:113:A:LEU:HD23	13	0.64
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG23	6	0.64
(1,868)	1:155:A:ILE:HG23	1:171:A:ALA:H	17	0.64
(1,849)	1:183:A:ILE:HG23	1:113:A:LEU:HB3	4	0.64
(1,849)	1:183:A:ILE:HG23	1:113:A:LEU:HB3	7	0.64
(1,848)	1:155:A:ILE:HG22	1:145:A:PHE:HD1	6	0.64
(1,848)	1:155:A:ILE:HG22	1:145:A:PHE:HD1	15	0.64
(1,816)	1:136:A:VAL:HG22	1:147:A:VAL:H	8	0.64
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG23	6	0.64
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG21	11	0.64
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG21	7	0.64
(1,778)	1:146:A:THR:HG23	1:136:A:VAL:HG21	13	0.64
(1,778)	1:146:A:THR:HG21	1:136:A:VAL:HG22	19	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,773)	1:128:A:LEU:HD21	1:127:A:LEU:HB3	13	0.64
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG22	1	0.64
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG21	16	0.64
(1,678)	1:173:A:LEU:HD13	1:183:A:ILE:HA	10	0.64
(1,678)	1:173:A:LEU:HD12	1:183:A:ILE:HA	13	0.64
(1,670)	1:173:A:LEU:HD13	1:175:A:PHE:HD1	5	0.64
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	7	0.64
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG23	2	0.64
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG23	3	0.64
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG23	19	0.64
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	15	0.64
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	5	0.64
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	9	0.64
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	12	0.64
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	14	0.64
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	18	0.64
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	6	0.64
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	9	0.64
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	19	0.64
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD12	15	0.64
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB1	15	0.64
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG22	4	0.64
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG21	17	0.64
(1,240)	1:135:A:GLN:HA	1:147:A:VAL:HG22	8	0.64
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD22	9	0.64
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	11	0.64
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	15	0.64
(1,156)	1:126:A:LYS:HA	1:129:A:GLU:HG2	15	0.64
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG22	19	0.64
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD22	14	0.64
(1,66)	1:158:A:PRO:HA	1:159:A:PHE:HD2	6	0.64
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG13	3	0.64
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG13	5	0.64
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG12	13	0.64
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG11	14	0.64
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG12	18	0.64
(2,261)	1:171:A:ALA:HB1	1:186:A:MET:HG2	14	0.63
(2,156)	1:168:A:GLN:HG3	1:155:A:ILE:HD11	11	0.63
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	7	0.63
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	15	0.63
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	20	0.63
(2,93)	1:163:A:ASP:HB3	1:161:A:PHE:HD1	4	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,61)	1:170:A:ARG:HD3	1:169:A:VAL:HG12	16	0.63
(2,56)	1:197:A:LEU:HB2	1:176:A:ASP:HA	3	0.63
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG13	15	0.63
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB2	10	0.63
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB2	20	0.63
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG11	8	0.63
(1,973)	1:171:A:ALA:H	1:170:A:ARG:HD2	2	0.63
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB3	2	0.63
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB3	11	0.63
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB3	13	0.63
(1,951)	1:129:A:GLU:HG2	1:129:A:GLU:HB3	2	0.63
(1,951)	1:129:A:GLU:HG2	1:129:A:GLU:HB3	3	0.63
(1,951)	1:129:A:GLU:HG2	1:129:A:GLU:HB3	4	0.63
(1,951)	1:129:A:GLU:HG2	1:129:A:GLU:HB3	5	0.63
(1,951)	1:129:A:GLU:HG2	1:129:A:GLU:HB3	11	0.63
(1,951)	1:129:A:GLU:HG2	1:129:A:GLU:HB3	17	0.63
(1,951)	1:129:A:GLU:HG2	1:129:A:GLU:HB3	18	0.63
(1,951)	1:129:A:GLU:HG2	1:129:A:GLU:HB3	20	0.63
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD13	18	0.63
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD13	4	0.63
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG22	10	0.63
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG12	20	0.63
(1,816)	1:136:A:VAL:HG22	1:147:A:VAL:H	3	0.63
(1,816)	1:136:A:VAL:HG22	1:147:A:VAL:H	9	0.63
(1,816)	1:136:A:VAL:HG22	1:147:A:VAL:H	17	0.63
(1,816)	1:136:A:VAL:HG21	1:147:A:VAL:H	18	0.63
(1,816)	1:136:A:VAL:HG22	1:147:A:VAL:H	20	0.63
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG23	3	0.63
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG21	4	0.63
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG22	20	0.63
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG22	19	0.63
(1,678)	1:173:A:LEU:HD11	1:183:A:ILE:HA	12	0.63
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	15	0.63
(1,582)	1:170:A:ARG:HB2	1:169:A:VAL:HA	19	0.63
(1,572)	1:153:A:GLU:HB3	1:139:A:MET:HG3	19	0.63
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG22	14	0.63
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG21	17	0.63
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG21	18	0.63
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB2	2	0.63
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB3	6	0.63
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	5	0.63
(1,517)	1:135:A:GLN:HG2	1:146:A:THR:HA	11	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	1	0.63
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	4	0.63
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	3	0.63
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	4	0.63
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	17	0.63
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG21	11	0.63
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG23	13	0.63
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD12	10	0.63
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD13	16	0.63
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	3	0.63
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	8	0.63
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	16	0.63
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG21	16	0.63
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG23	20	0.63
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD22	15	0.63
(2,267)	1:113:A:LEU:HD22	1:117:A:MET:HB3	1	0.62
(2,193)	1:139:A:MET:HG2	1:146:A:THR:HG22	13	0.62
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	12	0.62
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD23	11	0.62
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	3	0.62
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	10	0.62
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	4	0.62
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	5	0.62
(2,101)	1:152:A:ILE:HG12	1:128:A:LEU:HB3	5	0.62
(2,93)	1:163:A:ASP:HB3	1:161:A:PHE:HD2	14	0.62
(2,47)	1:160:A:ASP:HA	1:159:A:PHE:HB3	17	0.62
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB2	2	0.62
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB3	6	0.62
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB3	14	0.62
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	12	0.62
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	19	0.62
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	11	0.62
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	14	0.62
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD13	6	0.62
(1,929)	1:119:A:ILE:HD11	1:123:A:GLU:H	16	0.62
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD13	4	0.62
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD13	19	0.62
(1,903)	1:152:A:ILE:HD13	1:175:A:PHE:HE1	9	0.62
(1,903)	1:152:A:ILE:HD11	1:175:A:PHE:HE2	12	0.62
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD12	19	0.62
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG21	17	0.62
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG22	20	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,854)	1:130:A:ALA:HB1	1:128:A:LEU:HA	9	0.62
(1,854)	1:130:A:ALA:HB2	1:128:A:LEU:HA	17	0.62
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG13	13	0.62
(1,816)	1:136:A:VAL:HG21	1:147:A:VAL:H	1	0.62
(1,816)	1:136:A:VAL:HG23	1:147:A:VAL:H	4	0.62
(1,816)	1:136:A:VAL:HG22	1:147:A:VAL:H	14	0.62
(1,816)	1:136:A:VAL:HG22	1:147:A:VAL:H	15	0.62
(1,816)	1:136:A:VAL:HG22	1:147:A:VAL:H	16	0.62
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG22	13	0.62
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG22	17	0.62
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG21	1	0.62
(1,773)	1:128:A:LEU:HD23	1:127:A:LEU:HB3	4	0.62
(1,773)	1:128:A:LEU:HD23	1:127:A:LEU:HB3	5	0.62
(1,773)	1:128:A:LEU:HD23	1:127:A:LEU:HB3	20	0.62
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG21	12	0.62
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG21	15	0.62
(1,684)	1:113:A:LEU:HD21	1:183:A:ILE:HD11	7	0.62
(1,633)	1:126:A:LYS:HD3	1:123:A:GLU:HB2	16	0.62
(1,600)	1:168:A:GLN:HB2	1:155:A:ILE:HG21	4	0.62
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG21	4	0.62
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG22	7	0.62
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	3	0.62
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG21	15	0.62
(1,472)	1:187:A:GLU:HG3	1:186:A:MET:HA	8	0.62
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG22	10	0.62
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG21	13	0.62
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG21	20	0.62
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD13	13	0.62
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD11	15	0.62
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD11	19	0.62
(1,240)	1:135:A:GLN:HA	1:147:A:VAL:HG22	19	0.62
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	4	0.62
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG21	12	0.62
(1,66)	1:158:A:PRO:HA	1:159:A:PHE:HD2	17	0.62
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG12	1	0.62
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG13	4	0.62
(1,6)	1:133:A:TYR:HD1	1:128:A:LEU:HG	1	0.62
(2,278)	1:174:A:THR:HG21	1:197:A:LEU:HB2	15	0.61
(2,266)	1:113:A:LEU:HD22	1:173:A:LEU:HA	10	0.61
(2,264)	1:147:A:VAL:HG21	1:152:A:ILE:HG22	9	0.61
(2,264)	1:147:A:VAL:HG22	1:152:A:ILE:HG23	14	0.61
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	10	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	1	0.61
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	19	0.61
(2,75)	1:134:A:ARG:HD3	1:133:A:TYR:HE1	19	0.61
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	2	0.61
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	5	0.61
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	16	0.61
(2,47)	1:160:A:ASP:HA	1:159:A:PHE:HB3	4	0.61
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD23	16	0.61
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG13	6	0.61
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB2	4	0.61
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB2	11	0.61
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB3	18	0.61
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	6	0.61
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD12	14	0.61
(1,941)	1:155:A:ILE:HD12	1:154:A:MET:HA	8	0.61
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD13	14	0.61
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD13	17	0.61
(1,907)	1:152:A:ILE:HD12	1:124:A:MET:HA	19	0.61
(1,903)	1:152:A:ILE:HD12	1:175:A:PHE:HE1	6	0.61
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD11	3	0.61
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG21	8	0.61
(1,854)	1:130:A:ALA:HB3	1:128:A:LEU:HA	2	0.61
(1,854)	1:130:A:ALA:HB2	1:128:A:LEU:HA	6	0.61
(1,854)	1:130:A:ALA:HB2	1:128:A:LEU:HA	7	0.61
(1,854)	1:130:A:ALA:HB2	1:128:A:LEU:HA	10	0.61
(1,854)	1:130:A:ALA:HB3	1:128:A:LEU:HA	13	0.61
(1,816)	1:136:A:VAL:HG21	1:147:A:VAL:H	12	0.61
(1,773)	1:128:A:LEU:HD22	1:127:A:LEU:HB3	6	0.61
(1,773)	1:128:A:LEU:HD22	1:127:A:LEU:HB3	15	0.61
(1,773)	1:128:A:LEU:HD23	1:127:A:LEU:HB3	17	0.61
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG23	3	0.61
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG22	6	0.61
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD11	11	0.61
(1,670)	1:173:A:LEU:HD12	1:175:A:PHE:HD1	1	0.61
(1,670)	1:173:A:LEU:HD13	1:175:A:PHE:HD1	11	0.61
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG21	16	0.61
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	2	0.61
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	7	0.61
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG23	15	0.61
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD11	11	0.61
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD12	7	0.61
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG21	8	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD11	3	0.61
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD21	16	0.61
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	12	0.61
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG22	5	0.61
(1,156)	1:126:A:LYS:HA	1:129:A:GLU:HG2	1	0.61
(1,156)	1:126:A:LYS:HA	1:129:A:GLU:HG2	10	0.61
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG22	1	0.61
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD21	11	0.61
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD22	17	0.61
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	15	0.61
(1,68)	1:158:A:PRO:HA	1:159:A:PHE:HB2	15	0.61
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG12	2	0.61
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG11	12	0.61
(1,6)	1:133:A:TYR:HD2	1:128:A:LEU:HG	8	0.61
(1,6)	1:133:A:TYR:HD2	1:128:A:LEU:HG	14	0.61
(2,277)	1:128:A:LEU:HB3	1:147:A:VAL:HG21	1	0.6
(2,264)	1:147:A:VAL:HG21	1:152:A:ILE:HG21	1	0.6
(2,263)	1:147:A:VAL:HG21	1:146:A:THR:H	16	0.6
(2,261)	1:171:A:ALA:HB2	1:186:A:MET:HG2	12	0.6
(2,261)	1:171:A:ALA:HB3	1:186:A:MET:HG2	15	0.6
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	5	0.6
(2,152)	1:168:A:GLN:HG3	1:155:A:ILE:HG23	11	0.6
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	9	0.6
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	17	0.6
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	6	0.6
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	12	0.6
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	17	0.6
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	12	0.6
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD12	13	0.6
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG13	12	0.6
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB3	1	0.6
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	13	0.6
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG13	15	0.6
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	1	0.6
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	14	0.6
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	16	0.6
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB1	15	0.6
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD12	16	0.6
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD11	19	0.6
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD13	16	0.6
(1,905)	1:152:A:ILE:HA	1:152:A:ILE:HD11	6	0.6
(1,901)	1:153:A:GLU:H	1:152:A:ILE:HD11	6	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,868)	1:155:A:ILE:HG23	1:171:A:ALA:H	19	0.6
(1,854)	1:130:A:ALA:HB2	1:128:A:LEU:HA	14	0.6
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG12	4	0.6
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG13	7	0.6
(1,816)	1:136:A:VAL:HG21	1:147:A:VAL:H	11	0.6
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG23	5	0.6
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG23	9	0.6
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG23	13	0.6
(1,775)	1:184:A:VAL:HG23	1:194:A:PHE:H	10	0.6
(1,773)	1:128:A:LEU:HD21	1:127:A:LEU:HB3	7	0.6
(1,773)	1:128:A:LEU:HD23	1:127:A:LEU:HB3	11	0.6
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG22	7	0.6
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG22	8	0.6
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG23	9	0.6
(1,729)	1:125:A:VAL:HG11	1:129:A:GLU:HG2	4	0.6
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD13	18	0.6
(1,687)	1:197:A:LEU:HD12	1:176:A:ASP:HB3	6	0.6
(1,684)	1:113:A:LEU:HD21	1:183:A:ILE:HD13	4	0.6
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG21	20	0.6
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG23	8	0.6
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG23	14	0.6
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD12	16	0.6
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG23	1	0.6
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG23	2	0.6
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD22	1	0.6
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	14	0.6
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG22	8	0.6
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD22	1	0.6
(2,277)	1:128:A:LEU:HB3	1:147:A:VAL:HG21	15	0.59
(2,264)	1:147:A:VAL:HG21	1:152:A:ILE:HG23	4	0.59
(2,264)	1:147:A:VAL:HG22	1:152:A:ILE:HG23	5	0.59
(2,264)	1:147:A:VAL:HG21	1:152:A:ILE:HG23	15	0.59
(2,260)	1:125:A:VAL:HG22	1:128:A:LEU:HD13	19	0.59
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	3	0.59
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	20	0.59
(2,213)	1:162:A:PRO:HG2	1:161:A:PHE:HD2	3	0.59
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	1	0.59
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	7	0.59
(2,183)	1:121:A:LYS:HB3	1:122:A:ASN:HB2	6	0.59
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	15	0.59
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	2	0.59
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	3	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	11	0.59
(2,117)	1:129:A:GLU:HG3	1:134:A:ARG:HG3	18	0.59
(2,114)	1:122:A:ASN:HB3	1:125:A:VAL:HG12	1	0.59
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB2	11	0.59
(2,88)	1:165:A:LYS:HE2	1:164:A:SER:H	16	0.59
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	9	0.59
(2,61)	1:170:A:ARG:HD3	1:169:A:VAL:HG12	9	0.59
(2,56)	1:197:A:LEU:HB3	1:176:A:ASP:HA	10	0.59
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG11	4	0.59
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG11	11	0.59
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG11	18	0.59
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB2	3	0.59
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB2	15	0.59
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB2	19	0.59
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	15	0.59
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	2	0.59
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG22	16	0.59
(1,1197)	1:194:A:PHE:H	1:184:A:VAL:HG11	4	0.59
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	10	0.59
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	15	0.59
(1,973)	1:171:A:ALA:H	1:170:A:ARG:HD2	12	0.59
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD11	7	0.59
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD11	20	0.59
(1,937)	1:119:A:ILE:HD11	1:180:A:LEU:HD23	14	0.59
(1,923)	1:183:A:ILE:HD11	1:114:A:GLU:H	4	0.59
(1,903)	1:152:A:ILE:HD11	1:175:A:PHE:HE1	1	0.59
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD13	8	0.59
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG21	15	0.59
(1,854)	1:130:A:ALA:HB3	1:128:A:LEU:HA	1	0.59
(1,854)	1:130:A:ALA:HB2	1:128:A:LEU:HA	20	0.59
(1,852)	1:130:A:ALA:HB3	1:127:A:LEU:H	8	0.59
(1,852)	1:130:A:ALA:HB2	1:127:A:LEU:H	12	0.59
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG13	3	0.59
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG11	16	0.59
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG21	16	0.59
(1,729)	1:125:A:VAL:HG11	1:129:A:GLU:HG2	2	0.59
(1,729)	1:125:A:VAL:HG12	1:129:A:GLU:HG2	20	0.59
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD13	2	0.59
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD11	5	0.59
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD11	17	0.59
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD12	20	0.59
(1,684)	1:113:A:LEU:HD23	1:183:A:ILE:HD13	1	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG22	9	0.59
(1,517)	1:135:A:GLN:HG2	1:146:A:THR:HA	4	0.59
(1,488)	1:117:A:MET:HB2	1:114:A:GLU:H	18	0.59
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	9	0.59
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG23	19	0.59
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD13	14	0.59
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD12	16	0.59
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD11	13	0.59
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG21	14	0.59
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD12	1	0.59
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD13	11	0.59
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG21	14	0.59
(1,240)	1:135:A:GLN:HA	1:147:A:VAL:HG23	6	0.59
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	10	0.59
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD22	2	0.59
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD22	8	0.59
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD21	19	0.59
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	6	0.59
(2,277)	1:128:A:LEU:HB3	1:147:A:VAL:HG22	16	0.58
(2,264)	1:147:A:VAL:HG23	1:152:A:ILE:HG22	11	0.58
(2,264)	1:147:A:VAL:HG21	1:152:A:ILE:HG21	17	0.58
(2,263)	1:147:A:VAL:HG23	1:146:A:THR:H	4	0.58
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	1	0.58
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	7	0.58
(2,223)	1:173:A:LEU:HD22	1:152:A:ILE:H	18	0.58
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	10	0.58
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	15	0.58
(2,155)	1:165:A:LYS:HB2	1:165:A:LYS:HE3	13	0.58
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	19	0.58
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	7	0.58
(2,115)	1:122:A:ASN:HB3	1:126:A:LYS:H	18	0.58
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	10	0.58
(2,61)	1:170:A:ARG:HD3	1:169:A:VAL:HG12	4	0.58
(2,56)	1:197:A:LEU:HB2	1:176:A:ASP:HA	2	0.58
(2,56)	1:197:A:LEU:HB2	1:176:A:ASP:HA	7	0.58
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD11	10	0.58
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB3	12	0.58
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	12	0.58
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	5	0.58
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD13	4	0.58
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD11	12	0.58
(1,923)	1:183:A:ILE:HD12	1:114:A:GLU:H	7	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD13	5	0.58
(1,914)	1:183:A:ILE:HD11	1:182:A:THR:H	19	0.58
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD12	3	0.58
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD11	8	0.58
(1,897)	1:119:A:ILE:HG21	1:127:A:LEU:HD12	13	0.58
(1,890)	1:119:A:ILE:HG21	1:175:A:PHE:HD1	9	0.58
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG23	19	0.58
(1,854)	1:130:A:ALA:HB1	1:128:A:LEU:HA	4	0.58
(1,854)	1:130:A:ALA:HB3	1:128:A:LEU:HA	11	0.58
(1,854)	1:130:A:ALA:HB3	1:128:A:LEU:HA	15	0.58
(1,848)	1:155:A:ILE:HG22	1:145:A:PHE:HD1	10	0.58
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG12	19	0.58
(1,773)	1:128:A:LEU:HD21	1:127:A:LEU:HB3	16	0.58
(1,729)	1:125:A:VAL:HG11	1:129:A:GLU:HG2	5	0.58
(1,729)	1:125:A:VAL:HG11	1:129:A:GLU:HG2	11	0.58
(1,721)	1:197:A:LEU:HD21	1:175:A:PHE:H	13	0.58
(1,692)	1:129:A:GLU:HG2	1:128:A:LEU:HD11	4	0.58
(1,687)	1:197:A:LEU:HD13	1:176:A:ASP:HB3	1	0.58
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG21	6	0.58
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB2	8	0.58
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	14	0.58
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG21	19	0.58
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	15	0.58
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG22	15	0.58
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG22	6	0.58
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD12	12	0.58
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD13	12	0.58
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG22	7	0.58
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG23	12	0.58
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD22	20	0.58
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG21	6	0.58
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG22	11	0.58
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD22	16	0.58
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG12	19	0.58
(1,6)	1:133:A:TYR:HD1	1:128:A:LEU:HG	15	0.58
(2,266)	1:113:A:LEU:HD22	1:173:A:LEU:HA	17	0.57
(2,264)	1:147:A:VAL:HG23	1:152:A:ILE:HG21	20	0.57
(2,263)	1:147:A:VAL:HG23	1:146:A:THR:H	1	0.57
(2,263)	1:147:A:VAL:HG23	1:146:A:THR:H	15	0.57
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	6	0.57
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	9	0.57
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	12	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	12	0.57
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	9	0.57
(2,155)	1:165:A:LYS:HB3	1:165:A:LYS:HE2	2	0.57
(2,155)	1:165:A:LYS:HB3	1:165:A:LYS:HE2	9	0.57
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD22	1	0.57
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG3	16	0.57
(2,114)	1:122:A:ASN:HB3	1:125:A:VAL:HG13	4	0.57
(2,93)	1:163:A:ASP:HB3	1:161:A:PHE:HD2	16	0.57
(2,93)	1:163:A:ASP:HB3	1:161:A:PHE:HD2	20	0.57
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	6	0.57
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	15	0.57
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	18	0.57
(2,64)	1:170:A:ARG:HD3	1:186:A:MET:HG2	2	0.57
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG13	2	0.57
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG12	17	0.57
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD13	8	0.57
(1,1136)	1:152:A:ILE:H	1:151:A:SER:HB3	14	0.57
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD11	13	0.57
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB2	5	0.57
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB1	6	0.57
(1,929)	1:119:A:ILE:HD13	1:123:A:GLU:H	8	0.57
(1,929)	1:119:A:ILE:HD13	1:123:A:GLU:H	15	0.57
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD13	20	0.57
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD12	17	0.57
(1,907)	1:152:A:ILE:HD12	1:124:A:MET:HA	17	0.57
(1,903)	1:152:A:ILE:HD13	1:175:A:PHE:HE1	8	0.57
(1,903)	1:152:A:ILE:HD11	1:175:A:PHE:HE1	10	0.57
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD12	2	0.57
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD11	7	0.57
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG23	12	0.57
(1,869)	1:183:A:ILE:H	1:183:A:ILE:HG23	13	0.57
(1,856)	1:130:A:ALA:HB2	1:126:A:LYS:HB2	9	0.57
(1,854)	1:130:A:ALA:HB1	1:128:A:LEU:HA	5	0.57
(1,854)	1:130:A:ALA:HB1	1:128:A:LEU:HA	12	0.57
(1,854)	1:130:A:ALA:HB2	1:128:A:LEU:HA	18	0.57
(1,852)	1:130:A:ALA:HB2	1:127:A:LEU:H	9	0.57
(1,852)	1:130:A:ALA:HB3	1:127:A:LEU:H	10	0.57
(1,852)	1:130:A:ALA:HB1	1:127:A:LEU:H	15	0.57
(1,850)	1:183:A:ILE:HG22	1:114:A:GLU:H	8	0.57
(1,848)	1:155:A:ILE:HG23	1:145:A:PHE:HD1	11	0.57
(1,816)	1:136:A:VAL:HG23	1:147:A:VAL:H	5	0.57
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG21	10	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG22	12	0.57
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG23	9	0.57
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG22	10	0.57
(1,755)	1:132:A:GLN:HA	1:131:A:THR:HG22	13	0.57
(1,737)	1:171:A:ALA:HB2	1:192:A:PHE:HE1	2	0.57
(1,687)	1:197:A:LEU:HD11	1:176:A:ASP:HB3	14	0.57
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	17	0.57
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG13	1	0.57
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG13	2	0.57
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG21	12	0.57
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG22	5	0.57
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB1	1	0.57
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB1	4	0.57
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD11	2	0.57
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD12	8	0.57
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD11	9	0.57
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD12	12	0.57
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD23	13	0.57
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD22	17	0.57
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	6	0.57
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG23	13	0.57
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD22	5	0.57
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	5	0.57
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	10	0.57
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG11	7	0.57
(1,6)	1:133:A:TYR:HD2	1:128:A:LEU:HG	10	0.57
(2,264)	1:147:A:VAL:HG21	1:152:A:ILE:HG21	2	0.56
(2,264)	1:147:A:VAL:HG23	1:152:A:ILE:HG21	18	0.56
(2,260)	1:125:A:VAL:HG23	1:128:A:LEU:HD13	8	0.56
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	2	0.56
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	10	0.56
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	16	0.56
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	18	0.56
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	19	0.56
(2,223)	1:173:A:LEU:HD22	1:152:A:ILE:H	20	0.56
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	3	0.56
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	5	0.56
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	8	0.56
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	11	0.56
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	12	0.56
(2,155)	1:165:A:LYS:HB2	1:165:A:LYS:HE3	4	0.56
(2,155)	1:165:A:LYS:HB3	1:165:A:LYS:HE2	11	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,155)	1:165:A:LYS:HB2	1:165:A:LYS:HE3	18	0.56
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD23	8	0.56
(2,114)	1:122:A:ASN:HB2	1:125:A:VAL:HG22	10	0.56
(2,112)	1:122:A:ASN:HB2	1:124:A:MET:H	8	0.56
(2,64)	1:170:A:ARG:HD3	1:186:A:MET:HG2	12	0.56
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	19	0.56
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB3	7	0.56
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB2	13	0.56
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	7	0.56
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	10	0.56
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	4	0.56
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD13	10	0.56
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD11	13	0.56
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD13	18	0.56
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD13	11	0.56
(1,929)	1:119:A:ILE:HD11	1:123:A:GLU:H	11	0.56
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD12	7	0.56
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD11	10	0.56
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD12	16	0.56
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD11	18	0.56
(1,854)	1:130:A:ALA:HB2	1:128:A:LEU:HA	16	0.56
(1,852)	1:130:A:ALA:HB1	1:127:A:LEU:H	1	0.56
(1,852)	1:130:A:ALA:HB3	1:127:A:LEU:H	6	0.56
(1,852)	1:130:A:ALA:HB3	1:127:A:LEU:H	7	0.56
(1,852)	1:130:A:ALA:HB3	1:127:A:LEU:H	14	0.56
(1,852)	1:130:A:ALA:HB3	1:127:A:LEU:H	16	0.56
(1,852)	1:130:A:ALA:HB2	1:127:A:LEU:H	19	0.56
(1,848)	1:155:A:ILE:HG22	1:145:A:PHE:HD1	19	0.56
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG12	8	0.56
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG22	1	0.56
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG22	10	0.56
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG21	14	0.56
(1,773)	1:128:A:LEU:HD23	1:127:A:LEU:HB3	12	0.56
(1,729)	1:125:A:VAL:HG11	1:129:A:GLU:HG2	3	0.56
(1,729)	1:125:A:VAL:HG13	1:129:A:GLU:HG2	17	0.56
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG13	15	0.56
(1,542)	1:172:A:ARG:HB2	1:171:A:ALA:HB1	20	0.56
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	20	0.56
(1,517)	1:135:A:GLN:HG2	1:146:A:THR:HA	2	0.56
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG11	4	0.56
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG11	5	0.56
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG13	9	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG12	12	0.56
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG21	15	0.56
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG22	12	0.56
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG21	13	0.56
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG23	17	0.56
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG22	20	0.56
(1,360)	1:167:A:GLY:HA2	1:158:A:PRO:HA	2	0.56
(1,360)	1:167:A:GLY:HA2	1:158:A:PRO:HA	17	0.56
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD13	18	0.56
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB1	5	0.56
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG22	6	0.56
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG21	9	0.56
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG23	18	0.56
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD22	11	0.56
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD11	17	0.56
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD11	20	0.56
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG23	12	0.56
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD23	5	0.56
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD22	11	0.56
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD22	18	0.56
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD22	19	0.56
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD23	3	0.56
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD22	10	0.56
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD23	20	0.56
(1,68)	1:158:A:PRO:HA	1:159:A:PHE:HB2	11	0.56
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG13	16	0.56
(2,264)	1:147:A:VAL:HG22	1:152:A:ILE:HG22	16	0.55
(2,263)	1:147:A:VAL:HG22	1:146:A:THR:H	10	0.55
(2,263)	1:147:A:VAL:HG22	1:146:A:THR:H	20	0.55
(2,262)	1:113:A:LEU:HD11	1:180:A:LEU:HD13	9	0.55
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	5	0.55
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	13	0.55
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	15	0.55
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	16	0.55
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	17	0.55
(2,223)	1:173:A:LEU:HD23	1:152:A:ILE:H	5	0.55
(2,223)	1:152:A:ILE:H	1:173:A:LEU:HD11	6	0.55
(2,223)	1:173:A:LEU:HD22	1:152:A:ILE:H	11	0.55
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	1	0.55
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	14	0.55
(2,155)	1:165:A:LYS:HB3	1:165:A:LYS:HE2	7	0.55
(2,155)	1:165:A:LYS:HB2	1:165:A:LYS:HE3	14	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,155)	1:165:A:LYS:HB2	1:165:A:LYS:HE3	15	0.55
(2,155)	1:165:A:LYS:HB3	1:165:A:LYS:HE2	16	0.55
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	20	0.55
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	8	0.55
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	10	0.55
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	19	0.55
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	20	0.55
(2,46)	1:153:A:GLU:HA	1:186:A:MET:HG3	1	0.55
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD11	12	0.55
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB3	5	0.55
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	10	0.55
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	7	0.55
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	9	0.55
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	12	0.55
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	15	0.55
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	10	0.55
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	12	0.55
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD11	16	0.55
(1,1136)	1:152:A:ILE:H	1:151:A:SER:HB3	15	0.55
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	3	0.55
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD12	8	0.55
(1,937)	1:119:A:ILE:HD12	1:180:A:LEU:HD21	20	0.55
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD13	11	0.55
(1,914)	1:183:A:ILE:HD13	1:182:A:THR:H	15	0.55
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD11	5	0.55
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD13	6	0.55
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD12	12	0.55
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD13	14	0.55
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD11	17	0.55
(1,897)	1:119:A:ILE:HG23	1:127:A:LEU:HD13	10	0.55
(1,897)	1:119:A:ILE:HG23	1:127:A:LEU:HD11	14	0.55
(1,890)	1:119:A:ILE:HG22	1:175:A:PHE:HD1	13	0.55
(1,874)	1:183:A:ILE:HG23	1:113:A:LEU:HD22	10	0.55
(1,874)	1:183:A:ILE:HG21	1:113:A:LEU:HD23	14	0.55
(1,865)	1:183:A:ILE:HG22	1:192:A:PHE:HE1	20	0.55
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG23	19	0.55
(1,856)	1:130:A:ALA:HB3	1:126:A:LYS:HB2	10	0.55
(1,854)	1:130:A:ALA:HB3	1:128:A:LEU:HA	3	0.55
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG21	2	0.55
(1,791)	1:178:A:ASP:HB3	1:118:A:THR:HG22	15	0.55
(1,773)	1:128:A:LEU:HD21	1:127:A:LEU:HB3	14	0.55
(1,729)	1:125:A:VAL:HG13	1:129:A:GLU:HG2	18	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,547)	1:167:A:GLY:HA2	1:158:A:PRO:HB3	4	0.55
(1,517)	1:135:A:GLN:HG2	1:146:A:THR:HA	17	0.55
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG11	3	0.55
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG12	14	0.55
(1,496)	1:117:A:MET:HB3	1:118:A:THR:H	18	0.55
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD13	5	0.55
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD11	20	0.55
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB2	12	0.55
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB2	13	0.55
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD23	13	0.55
(1,240)	1:135:A:GLN:HA	1:147:A:VAL:HG23	7	0.55
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG21	18	0.55
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG22	6	0.55
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG21	19	0.55
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG21	20	0.55
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD22	9	0.55
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	2	0.55
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG11	11	0.55
(2,277)	1:174:A:THR:HG23	1:182:A:THR:HG23	6	0.54
(2,264)	1:147:A:VAL:HG23	1:152:A:ILE:HG23	10	0.54
(2,263)	1:147:A:VAL:HG23	1:146:A:THR:H	17	0.54
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	4	0.54
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	11	0.54
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	14	0.54
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	17	0.54
(2,223)	1:173:A:LEU:HD22	1:152:A:ILE:H	2	0.54
(2,223)	1:173:A:LEU:HD22	1:152:A:ILE:H	10	0.54
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	5	0.54
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	6	0.54
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	17	0.54
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	5	0.54
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	2	0.54
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	13	0.54
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	17	0.54
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	19	0.54
(2,156)	1:168:A:GLN:HG3	1:155:A:ILE:HD13	2	0.54
(2,155)	1:165:A:LYS:HB2	1:165:A:LYS:HE3	1	0.54
(2,155)	1:165:A:LYS:HB2	1:165:A:LYS:HE3	8	0.54
(2,155)	1:165:A:LYS:HB2	1:165:A:LYS:HE3	17	0.54
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	2	0.54
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	6	0.54
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	7	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD21	5	0.54
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB2	20	0.54
(2,115)	1:122:A:ASN:HB3	1:126:A:LYS:H	11	0.54
(2,115)	1:122:A:ASN:HB3	1:126:A:LYS:H	12	0.54
(2,112)	1:122:A:ASN:HB2	1:124:A:MET:H	1	0.54
(2,93)	1:163:A:ASP:HB3	1:161:A:PHE:HD1	19	0.54
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	3	0.54
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	7	0.54
(2,56)	1:197:A:LEU:HB3	1:176:A:ASP:HA	9	0.54
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD13	4	0.54
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD23	18	0.54
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD22	9	0.54
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	6	0.54
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	14	0.54
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	20	0.54
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG21	18	0.54
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD12	9	0.54
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD13	12	0.54
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD12	20	0.54
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG22	6	0.54
(1,1167)	1:159:A:PHE:H	1:159:A:PHE:HB2	19	0.54
(1,1057)	1:111:A:VAL:H	1:111:A:VAL:HG11	14	0.54
(1,973)	1:171:A:ALA:H	1:170:A:ARG:HD2	18	0.54
(1,929)	1:119:A:ILE:HD11	1:123:A:GLU:H	6	0.54
(1,929)	1:119:A:ILE:HD11	1:123:A:GLU:H	18	0.54
(1,929)	1:119:A:ILE:HD13	1:123:A:GLU:H	20	0.54
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD13	3	0.54
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD11	7	0.54
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD12	11	0.54
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD13	13	0.54
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD12	15	0.54
(1,907)	1:152:A:ILE:HD13	1:124:A:MET:HA	4	0.54
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD13	5	0.54
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD11	11	0.54
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD12	13	0.54
(1,897)	1:119:A:ILE:HG21	1:127:A:LEU:HD12	7	0.54
(1,890)	1:119:A:ILE:HG22	1:175:A:PHE:HD1	2	0.54
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG21	13	0.54
(1,854)	1:130:A:ALA:HB2	1:128:A:LEU:HA	8	0.54
(1,852)	1:130:A:ALA:HB1	1:127:A:LEU:H	13	0.54
(1,846)	1:136:A:VAL:HG13	1:146:A:THR:H	13	0.54
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG21	15	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG22	16	0.54
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG21	18	0.54
(1,721)	1:197:A:LEU:HD21	1:175:A:PHE:H	5	0.54
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG23	10	0.54
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	13	0.54
(1,517)	1:135:A:GLN:HG2	1:146:A:THR:HA	20	0.54
(1,437)	1:189:A:ASN:HA	1:189:A:ASN:HB3	10	0.54
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG22	17	0.54
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	5	0.54
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD13	9	0.54
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD11	19	0.54
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD21	3	0.54
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD22	19	0.54
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD13	5	0.54
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	5	0.54
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD23	8	0.54
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD22	14	0.54
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	7	0.54
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG23	7	0.54
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD23	12	0.54
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD22	13	0.54
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	7	0.54
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG12	17	0.54
(1,6)	1:133:A:TYR:HD2	1:128:A:LEU:HG	17	0.54
(2,284)	1:147:A:VAL:HG22	1:152:A:ILE:HD11	14	0.53
(2,278)	1:174:A:THR:HG23	1:197:A:LEU:HB2	10	0.53
(2,267)	1:113:A:LEU:HD23	1:117:A:MET:HB3	8	0.53
(2,250)	1:138:A:LYS:HB2	1:138:A:LYS:HG3	8	0.53
(2,225)	1:173:A:LEU:HD22	1:173:A:LEU:H	1	0.53
(2,223)	1:173:A:LEU:HD22	1:152:A:ILE:H	1	0.53
(2,223)	1:173:A:LEU:HD23	1:152:A:ILE:H	8	0.53
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	4	0.53
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	7	0.53
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	8	0.53
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	9	0.53
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	15	0.53
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	1	0.53
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	4	0.53
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	6	0.53
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	14	0.53
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	14	0.53
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	4	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	14	0.53
(2,155)	1:165:A:LYS:HB2	1:165:A:LYS:HE3	3	0.53
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	12	0.53
(2,122)	1:123:A:GLU:HG2	1:127:A:LEU:HD13	1	0.53
(2,112)	1:122:A:ASN:HB2	1:124:A:MET:H	13	0.53
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB2	12	0.53
(2,93)	1:163:A:ASP:HB3	1:161:A:PHE:HD2	7	0.53
(2,88)	1:165:A:LYS:HE3	1:164:A:SER:H	13	0.53
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD2	10	0.53
(2,67)	1:170:A:ARG:HD2	1:155:A:ILE:HA	14	0.53
(2,66)	1:170:A:ARG:HD2	1:187:A:GLU:H	18	0.53
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD21	12	0.53
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD13	19	0.53
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG11	8	0.53
(2,27)	1:187:A:GLU:HA	1:169:A:VAL:HG11	19	0.53
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	2	0.53
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	20	0.53
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	2	0.53
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	3	0.53
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	11	0.53
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	13	0.53
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	19	0.53
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	3	0.53
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	16	0.53
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG21	17	0.53
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD11	5	0.53
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG22	14	0.53
(1,1136)	1:152:A:ILE:H	1:151:A:SER:HB3	2	0.53
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG23	10	0.53
(1,929)	1:119:A:ILE:HD12	1:123:A:GLU:H	7	0.53
(1,929)	1:119:A:ILE:HD13	1:123:A:GLU:H	12	0.53
(1,929)	1:119:A:ILE:HD12	1:123:A:GLU:H	19	0.53
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD12	1	0.53
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD13	9	0.53
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD11	12	0.53
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD13	20	0.53
(1,890)	1:119:A:ILE:HG21	1:175:A:PHE:HD1	3	0.53
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG22	20	0.53
(1,854)	1:130:A:ALA:HB1	1:128:A:LEU:HA	19	0.53
(1,852)	1:130:A:ALA:HB3	1:127:A:LEU:H	18	0.53
(1,848)	1:155:A:ILE:HG21	1:145:A:PHE:HD1	20	0.53
(1,826)	1:184:A:VAL:HG11	1:171:A:ALA:HA	6	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG22	12	0.53
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG11	6	0.53
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG12	7	0.53
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG23	10	0.53
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG21	18	0.53
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG22	3	0.53
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG22	9	0.53
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG22	11	0.53
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG23	16	0.53
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG22	18	0.53
(1,353)	1:193:A:GLY:HA2	1:184:A:VAL:HG11	8	0.53
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD13	17	0.53
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB2	2	0.53
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB3	7	0.53
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG22	5	0.53
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD23	2	0.53
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD23	8	0.53
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD23	10	0.53
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD23	15	0.53
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	7	0.53
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD11	6	0.53
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD23	4	0.53
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD22	10	0.53
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG22	1	0.53
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG21	16	0.53
(1,153)	1:182:A:THR:HA	1:184:A:VAL:HG23	16	0.53
(1,66)	1:158:A:PRO:HA	1:159:A:PHE:HD2	1	0.53
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG11	15	0.53
(1,12)	1:194:A:PHE:HD2	1:193:A:GLY:HA3	20	0.53
(2,263)	1:147:A:VAL:HG21	1:146:A:THR:H	5	0.52
(2,263)	1:147:A:VAL:HG22	1:146:A:THR:H	11	0.52
(2,223)	1:173:A:LEU:HD23	1:152:A:ILE:H	15	0.52
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	11	0.52
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	13	0.52
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	16	0.52
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	19	0.52
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	16	0.52
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	10	0.52
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	11	0.52
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	13	0.52
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	15	0.52
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	18	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,176)	1:114:A:GLU:HB3	1:183:A:ILE:HD11	4	0.52
(2,155)	1:165:A:LYS:HB2	1:165:A:LYS:HE3	5	0.52
(2,155)	1:165:A:LYS:HB2	1:165:A:LYS:HE3	6	0.52
(2,155)	1:165:A:LYS:HB3	1:165:A:LYS:HE2	12	0.52
(2,155)	1:165:A:LYS:HB2	1:165:A:LYS:HE3	19	0.52
(2,152)	1:168:A:GLN:HG3	1:155:A:ILE:HG23	7	0.52
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	5	0.52
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	13	0.52
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	14	0.52
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	16	0.52
(2,115)	1:122:A:ASN:HB3	1:126:A:LYS:H	6	0.52
(2,114)	1:122:A:ASN:HB3	1:125:A:VAL:HG11	20	0.52
(2,109)	1:154:A:MET:HB2	1:173:A:LEU:HG	3	0.52
(2,88)	1:165:A:LYS:HE2	1:164:A:SER:H	7	0.52
(2,88)	1:165:A:LYS:HE3	1:164:A:SER:H	18	0.52
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	20	0.52
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	4	0.52
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	2	0.52
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	7	0.52
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	5	0.52
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	8	0.52
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	16	0.52
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	17	0.52
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	18	0.52
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG23	15	0.52
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD13	3	0.52
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD12	7	0.52
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD12	5	0.52
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD13	19	0.52
(1,1136)	1:152:A:ILE:H	1:151:A:SER:HB3	12	0.52
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	10	0.52
(1,973)	1:171:A:ALA:H	1:170:A:ARG:HD2	4	0.52
(1,973)	1:171:A:ALA:H	1:170:A:ARG:HD2	9	0.52
(1,929)	1:119:A:ILE:HD11	1:123:A:GLU:H	5	0.52
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD12	10	0.52
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD11	16	0.52
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD12	18	0.52
(1,907)	1:152:A:ILE:HD12	1:124:A:MET:HA	14	0.52
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD11	1	0.52
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD12	4	0.52
(1,898)	1:119:A:ILE:HG21	1:119:A:ILE:HD13	13	0.52
(1,890)	1:119:A:ILE:HG21	1:175:A:PHE:HD1	10	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,890)	1:119:A:ILE:HG22	1:175:A:PHE:HD1	11	0.52
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG21	11	0.52
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG23	16	0.52
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG23	17	0.52
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG23	18	0.52
(1,852)	1:130:A:ALA:HB1	1:127:A:LEU:H	2	0.52
(1,852)	1:130:A:ALA:HB2	1:127:A:LEU:H	4	0.52
(1,852)	1:130:A:ALA:HB3	1:127:A:LEU:H	20	0.52
(1,846)	1:136:A:VAL:HG13	1:146:A:THR:H	18	0.52
(1,784)	1:184:A:VAL:HG21	1:184:A:VAL:HG13	2	0.52
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG23	8	0.52
(1,721)	1:197:A:LEU:HD23	1:175:A:PHE:H	17	0.52
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	1	0.52
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG21	18	0.52
(1,517)	1:135:A:GLN:HG2	1:146:A:THR:HA	10	0.52
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG12	8	0.52
(1,496)	1:117:A:MET:HB3	1:118:A:THR:H	6	0.52
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG23	3	0.52
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG22	11	0.52
(1,437)	1:189:A:ASN:HA	1:189:A:ASN:HB3	18	0.52
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG21	1	0.52
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	2	0.52
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	14	0.52
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD11	4	0.52
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD11	6	0.52
(1,274)	1:144:A:GLU:HA	1:136:A:VAL:HG21	3	0.52
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD23	1	0.52
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD23	17	0.52
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD21	20	0.52
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	6	0.52
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	5	0.52
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG23	4	0.52
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	4	0.52
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	1	0.52
(1,6)	1:133:A:TYR:HD2	1:128:A:LEU:HG	6	0.52
(1,6)	1:133:A:TYR:HD2	1:128:A:LEU:HG	13	0.52
(2,266)	1:113:A:LEU:HD23	1:173:A:LEU:HA	14	0.51
(2,263)	1:147:A:VAL:HG22	1:146:A:THR:H	18	0.51
(2,260)	1:125:A:VAL:HG22	1:128:A:LEU:HD13	6	0.51
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	17	0.51
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	3	0.51
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	8	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	9	0.51
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	18	0.51
(2,223)	1:173:A:LEU:HD21	1:152:A:ILE:H	3	0.51
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	2	0.51
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	20	0.51
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	8	0.51
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	13	0.51
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	18	0.51
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	19	0.51
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	8	0.51
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	9	0.51
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	19	0.51
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	20	0.51
(2,187)	1:163:A:ASP:HB3	1:162:A:PRO:HB3	16	0.51
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	3	0.51
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	11	0.51
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	10	0.51
(2,109)	1:154:A:MET:HB2	1:173:A:LEU:HG	5	0.51
(2,66)	1:170:A:ARG:HD2	1:187:A:GLU:H	4	0.51
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	3	0.51
(2,56)	1:197:A:LEU:HB2	1:176:A:ASP:HA	18	0.51
(2,56)	1:197:A:LEU:HB3	1:176:A:ASP:HA	19	0.51
(2,47)	1:160:A:ASP:HA	1:159:A:PHE:HB3	10	0.51
(2,42)	1:154:A:MET:HA	1:113:A:LEU:HD21	9	0.51
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	3	0.51
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	8	0.51
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	9	0.51
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG2	18	0.51
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	4	0.51
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	17	0.51
(2,9)	1:164:A:SER:HB2	1:161:A:PHE:HD1	19	0.51
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	4	0.51
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	5	0.51
(2,5)	1:125:A:VAL:HA	1:126:A:LYS:HB3	20	0.51
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	1	0.51
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	15	0.51
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	17	0.51
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG21	6	0.51
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD13	1	0.51
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD11	11	0.51
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD11	13	0.51
(1,1136)	1:152:A:ILE:H	1:151:A:SER:HB3	1	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1136)	1:152:A:ILE:H	1:151:A:SER:HB3	3	0.51
(1,1057)	1:111:A:VAL:H	1:111:A:VAL:HG12	18	0.51
(1,973)	1:171:A:ALA:H	1:170:A:ARG:HD2	15	0.51
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD12	15	0.51
(1,929)	1:119:A:ILE:HD13	1:123:A:GLU:H	4	0.51
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD13	1	0.51
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD11	9	0.51
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD11	15	0.51
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD11	20	0.51
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD12	14	0.51
(1,897)	1:119:A:ILE:HG22	1:127:A:LEU:HD13	8	0.51
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG23	2	0.51
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG21	5	0.51
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG23	6	0.51
(1,852)	1:130:A:ALA:HB1	1:127:A:LEU:H	3	0.51
(1,852)	1:130:A:ALA:HB2	1:127:A:LEU:H	5	0.51
(1,852)	1:130:A:ALA:HB3	1:127:A:LEU:H	17	0.51
(1,850)	1:183:A:ILE:HG23	1:114:A:GLU:H	11	0.51
(1,850)	1:183:A:ILE:HG23	1:114:A:GLU:H	16	0.51
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG11	15	0.51
(1,784)	1:184:A:VAL:HG21	1:184:A:VAL:HG13	14	0.51
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG21	10	0.51
(1,737)	1:171:A:ALA:HB3	1:192:A:PHE:HE1	17	0.51
(1,670)	1:173:A:LEU:HD11	1:175:A:PHE:HD1	2	0.51
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG12	19	0.51
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG21	10	0.51
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG22	16	0.51
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	12	0.51
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD13	2	0.51
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD11	10	0.51
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB3	17	0.51
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD22	4	0.51
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD23	5	0.51
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD22	6	0.51
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG22	4	0.51
(1,240)	1:135:A:GLN:HA	1:147:A:VAL:HG22	13	0.51
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG23	12	0.51
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG23	14	0.51
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG22	9	0.51
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	3	0.51
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	13	0.51
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	2	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6)	1:133:A:TYR:HD2	1:128:A:LEU:HG	19	0.51
(2,262)	1:113:A:LEU:HD12	1:180:A:LEU:HD11	12	0.5
(2,262)	1:113:A:LEU:HD13	1:180:A:LEU:HD12	16	0.5
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	2	0.5
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	4	0.5
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	19	0.5
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	12	0.5
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	3	0.5
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	4	0.5
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	2	0.5
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	5	0.5
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	12	0.5
(2,205)	1:165:A:LYS:HE2	1:165:A:LYS:HD3	5	0.5
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	12	0.5
(2,155)	1:165:A:LYS:HB2	1:165:A:LYS:HE3	10	0.5
(2,155)	1:165:A:LYS:HB2	1:165:A:LYS:HE3	20	0.5
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	4	0.5
(2,147)	1:134:A:ARG:HB2	1:133:A:TYR:HD1	18	0.5
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	9	0.5
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB2	6	0.5
(2,123)	1:123:A:GLU:HG3	1:119:A:ILE:HA	19	0.5
(2,109)	1:154:A:MET:HB2	1:173:A:LEU:HG	12	0.5
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD2	3	0.5
(2,56)	1:197:A:LEU:HB3	1:176:A:ASP:HA	1	0.5
(2,46)	1:153:A:GLU:HA	1:186:A:MET:HG3	16	0.5
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	6	0.5
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	7	0.5
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	17	0.5
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	20	0.5
(2,32)	1:122:A:ASN:HA	1:125:A:VAL:HG22	1	0.5
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	11	0.5
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	9	0.5
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	6	0.5
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG22	11	0.5
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD12	15	0.5
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD12	18	0.5
(1,973)	1:171:A:ALA:H	1:170:A:ARG:HD2	6	0.5
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD12	5	0.5
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD12	9	0.5
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD13	10	0.5
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB2	10	0.5
(1,940)	1:143:A:GLY:H	1:155:A:ILE:HD11	10	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,937)	1:119:A:ILE:HD12	1:180:A:LEU:HD23	8	0.5
(1,929)	1:119:A:ILE:HD11	1:123:A:GLU:H	13	0.5
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD12	2	0.5
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD13	8	0.5
(1,897)	1:119:A:ILE:HG23	1:127:A:LEU:HD12	6	0.5
(1,890)	1:119:A:ILE:HG22	1:175:A:PHE:HD1	5	0.5
(1,890)	1:119:A:ILE:HG22	1:175:A:PHE:HD1	12	0.5
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG22	10	0.5
(1,856)	1:130:A:ALA:HB3	1:126:A:LYS:HB2	7	0.5
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG11	2	0.5
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG11	5	0.5
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG11	6	0.5
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG11	14	0.5
(1,826)	1:184:A:VAL:HG11	1:171:A:ALA:HA	5	0.5
(1,826)	1:184:A:VAL:HG11	1:171:A:ALA:HA	14	0.5
(1,826)	1:184:A:VAL:HG12	1:171:A:ALA:HA	19	0.5
(1,802)	1:184:A:VAL:HG21	1:182:A:THR:HG21	4	0.5
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG22	6	0.5
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG22	4	0.5
(1,757)	1:171:A:ALA:HB2	1:192:A:PHE:HD1	16	0.5
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB1	18	0.5
(1,727)	1:197:A:LEU:HA	1:197:A:LEU:HD22	5	0.5
(1,670)	1:173:A:LEU:HD11	1:175:A:PHE:HD1	20	0.5
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG13	3	0.5
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG13	18	0.5
(1,496)	1:117:A:MET:HB3	1:118:A:THR:H	7	0.5
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG21	16	0.5
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG21	18	0.5
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG22	2	0.5
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG22	10	0.5
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	15	0.5
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD11	3	0.5
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB2	8	0.5
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB2	9	0.5
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB1	14	0.5
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD12	4	0.5
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD12	18	0.5
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	14	0.5
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG23	12	0.5
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG23	18	0.5
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	19	0.5
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	18	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	7	0.5
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	12	0.5
(1,12)	1:194:A:PHE:HD2	1:193:A:GLY:HA3	1	0.5
(2,284)	1:147:A:VAL:HG23	1:152:A:ILE:HD13	18	0.49
(2,263)	1:147:A:VAL:HG21	1:146:A:THR:H	12	0.49
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	9	0.49
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	8	0.49
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	9	0.49
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	11	0.49
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	15	0.49
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	17	0.49
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	4	0.49
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	7	0.49
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	16	0.49
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	3	0.49
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	8	0.49
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	18	0.49
(2,187)	1:163:A:ASP:HB2	1:162:A:PRO:HB3	20	0.49
(2,183)	1:121:A:LYS:HB3	1:122:A:ASN:HB2	20	0.49
(2,123)	1:123:A:GLU:HG2	1:119:A:ILE:HA	3	0.49
(2,123)	1:123:A:GLU:HG2	1:119:A:ILE:HA	17	0.49
(2,112)	1:122:A:ASN:HB2	1:124:A:MET:H	19	0.49
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB2	20	0.49
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	10	0.49
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	14	0.49
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD13	16	0.49
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	10	0.49
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG23	19	0.49
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG23	10	0.49
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD12	19	0.49
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD12	1	0.49
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD13	10	0.49
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	11	0.49
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD12	2	0.49
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD13	3	0.49
(1,929)	1:119:A:ILE:HD13	1:123:A:GLU:H	3	0.49
(1,929)	1:119:A:ILE:HD11	1:123:A:GLU:H	17	0.49
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD11	13	0.49
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD12	17	0.49
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD12	19	0.49
(1,907)	1:152:A:ILE:HD11	1:124:A:MET:HA	3	0.49
(1,903)	1:152:A:ILE:HD11	1:175:A:PHE:HE1	17	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,890)	1:119:A:ILE:HG21	1:175:A:PHE:HD1	1	0.49
(1,890)	1:119:A:ILE:HG21	1:175:A:PHE:HD1	6	0.49
(1,870)	1:183:A:ILE:HG23	1:172:A:ARG:H	9	0.49
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG21	1	0.49
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG22	3	0.49
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG22	4	0.49
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG23	7	0.49
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG23	8	0.49
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG22	9	0.49
(1,852)	1:130:A:ALA:HB1	1:127:A:LEU:H	11	0.49
(1,850)	1:183:A:ILE:HG23	1:114:A:GLU:H	4	0.49
(1,850)	1:183:A:ILE:HG21	1:114:A:GLU:H	14	0.49
(1,848)	1:155:A:ILE:HG22	1:145:A:PHE:HD1	17	0.49
(1,846)	1:136:A:VAL:HG11	1:146:A:THR:H	6	0.49
(1,846)	1:136:A:VAL:HG12	1:146:A:THR:H	7	0.49
(1,826)	1:184:A:VAL:HG12	1:171:A:ALA:HA	7	0.49
(1,826)	1:184:A:VAL:HG13	1:171:A:ALA:HA	12	0.49
(1,826)	1:184:A:VAL:HG11	1:171:A:ALA:HA	15	0.49
(1,808)	1:136:A:VAL:HG21	1:140:A:THR:H	17	0.49
(1,784)	1:184:A:VAL:HG21	1:184:A:VAL:HG12	1	0.49
(1,784)	1:184:A:VAL:HG22	1:184:A:VAL:HG12	16	0.49
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG23	19	0.49
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB1	16	0.49
(1,670)	1:173:A:LEU:HD12	1:175:A:PHE:HD1	3	0.49
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG23	20	0.49
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	3	0.49
(1,517)	1:135:A:GLN:HG2	1:146:A:THR:HA	15	0.49
(1,496)	1:117:A:MET:HB3	1:118:A:THR:H	4	0.49
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG21	3	0.49
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG21	6	0.49
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG23	2	0.49
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD12	10	0.49
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB3	3	0.49
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD23	9	0.49
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD21	12	0.49
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD23	16	0.49
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD21	18	0.49
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG22	9	0.49
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	18	0.49
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	19	0.49
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD22	2	0.49
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG11	15	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	9	0.49
(1,68)	1:158:A:PRO:HA	1:159:A:PHE:HB2	12	0.49
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD13	4	0.49
(2,266)	1:113:A:LEU:HD21	1:173:A:LEU:HA	2	0.48
(2,263)	1:147:A:VAL:HG21	1:146:A:THR:H	14	0.48
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	3	0.48
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	7	0.48
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	15	0.48
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	13	0.48
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	14	0.48
(2,225)	1:173:A:LEU:HD23	1:173:A:LEU:H	15	0.48
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	17	0.48
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	7	0.48
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	11	0.48
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	15	0.48
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	2	0.48
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	12	0.48
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	17	0.48
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	4	0.48
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	6	0.48
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	20	0.48
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	4	0.48
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	17	0.48
(2,115)	1:122:A:ASN:HB3	1:126:A:LYS:H	10	0.48
(2,112)	1:122:A:ASN:HB3	1:124:A:MET:H	14	0.48
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	12	0.48
(2,88)	1:165:A:LYS:HE3	1:164:A:SER:H	10	0.48
(2,88)	1:165:A:LYS:HE3	1:164:A:SER:H	14	0.48
(2,88)	1:165:A:LYS:HE3	1:164:A:SER:H	20	0.48
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	7	0.48
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	13	0.48
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	8	0.48
(2,66)	1:170:A:ARG:HD2	1:187:A:GLU:H	9	0.48
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	5	0.48
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG2	11	0.48
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	13	0.48
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	15	0.48
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	9	0.48
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	18	0.48
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	19	0.48
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG22	3	0.48
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG21	6	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	13	0.48
(1,1249)	1:151:A:SER:H	1:151:A:SER:HB2	2	0.48
(1,1249)	1:151:A:SER:H	1:151:A:SER:HB2	3	0.48
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG23	4	0.48
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG23	14	0.48
(1,1216)	1:177:A:GLY:H	1:175:A:PHE:HB3	7	0.48
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD12	17	0.48
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD12	2	0.48
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD11	16	0.48
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	19	0.48
(1,973)	1:171:A:ALA:H	1:170:A:ARG:HD2	5	0.48
(1,937)	1:119:A:ILE:HD12	1:180:A:LEU:HD23	2	0.48
(1,929)	1:119:A:ILE:HD12	1:123:A:GLU:H	14	0.48
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD13	2	0.48
(1,890)	1:119:A:ILE:HG22	1:175:A:PHE:HD1	18	0.48
(1,870)	1:183:A:ILE:HG22	1:172:A:ARG:H	14	0.48
(1,870)	1:183:A:ILE:HG22	1:172:A:ARG:H	18	0.48
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG22	12	0.48
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG22	14	0.48
(1,856)	1:130:A:ALA:HB1	1:126:A:LYS:HB2	2	0.48
(1,856)	1:130:A:ALA:HB1	1:126:A:LYS:HB2	15	0.48
(1,848)	1:155:A:ILE:HG23	1:145:A:PHE:HD1	13	0.48
(1,846)	1:136:A:VAL:HG13	1:146:A:THR:H	1	0.48
(1,846)	1:136:A:VAL:HG11	1:146:A:THR:H	3	0.48
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG11	1	0.48
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG22	17	0.48
(1,784)	1:184:A:VAL:HG21	1:184:A:VAL:HG13	11	0.48
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD21	11	0.48
(1,693)	1:128:A:LEU:HD11	1:124:A:MET:HB2	19	0.48
(1,670)	1:173:A:LEU:HD13	1:175:A:PHE:HD1	17	0.48
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG23	8	0.48
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG11	6	0.48
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG11	12	0.48
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG12	13	0.48
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD13	19	0.48
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	1	0.48
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	8	0.48
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	20	0.48
(1,572)	1:153:A:GLU:HB3	1:139:A:MET:HG3	20	0.48
(1,558)	1:153:A:GLU:HB2	1:146:A:THR:HG23	10	0.48
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	14	0.48
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG22	5	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG21	8	0.48
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG23	14	0.48
(1,446)	1:128:A:LEU:H	1:129:A:GLU:HG2	15	0.48
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG22	4	0.48
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG23	1	0.48
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG21	5	0.48
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG22	8	0.48
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	4	0.48
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	9	0.48
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	20	0.48
(1,304)	1:160:A:ASP:HA	1:159:A:PHE:HD1	1	0.48
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD23	14	0.48
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG21	3	0.48
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG23	3	0.48
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG21	8	0.48
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	18	0.48
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD21	4	0.48
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	10	0.48
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG13	16	0.48
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG12	17	0.48
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG22	14	0.48
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD11	5	0.48
(1,12)	1:194:A:PHE:HD1	1:193:A:GLY:HA3	16	0.48
(1,6)	1:133:A:TYR:HD1	1:128:A:LEU:HG	9	0.48
(2,284)	1:147:A:VAL:HG21	1:152:A:ILE:HD13	15	0.47
(2,266)	1:113:A:LEU:HD22	1:173:A:LEU:HA	11	0.47
(2,263)	1:147:A:VAL:HG23	1:146:A:THR:H	9	0.47
(2,262)	1:113:A:LEU:HD12	1:180:A:LEU:HD11	18	0.47
(2,260)	1:125:A:VAL:HG22	1:128:A:LEU:HD12	3	0.47
(2,260)	1:125:A:VAL:HG23	1:128:A:LEU:HD13	7	0.47
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	1	0.47
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	4	0.47
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	1	0.47
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	20	0.47
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG3	1	0.47
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	3	0.47
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	4	0.47
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	5	0.47
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	8	0.47
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	12	0.47
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	17	0.47
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	18	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	19	0.47
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	20	0.47
(2,225)	1:173:A:LEU:HD22	1:173:A:LEU:H	14	0.47
(2,223)	1:173:A:LEU:HD23	1:152:A:ILE:H	13	0.47
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	3	0.47
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	6	0.47
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	10	0.47
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	9	0.47
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	16	0.47
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	20	0.47
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	1	0.47
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	6	0.47
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	10	0.47
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	1	0.47
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	10	0.47
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	19	0.47
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	5	0.47
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD21	13	0.47
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD22	19	0.47
(2,134)	1:166:A:GLU:HG2	1:159:A:PHE:HD2	15	0.47
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB2	2	0.47
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB2	19	0.47
(2,123)	1:123:A:GLU:HG3	1:119:A:ILE:HA	10	0.47
(2,112)	1:122:A:ASN:HB2	1:124:A:MET:H	3	0.47
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB3	12	0.47
(2,56)	1:197:A:LEU:HB2	1:176:A:ASP:HA	8	0.47
(2,47)	1:160:A:ASP:HA	1:159:A:PHE:HB3	5	0.47
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG2	2	0.47
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	12	0.47
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	16	0.47
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	4	0.47
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	6	0.47
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	8	0.47
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	9	0.47
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	16	0.47
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	17	0.47
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG23	13	0.47
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG21	1	0.47
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG21	13	0.47
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD11	14	0.47
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD13	20	0.47
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	2	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	18	0.47
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD12	18	0.47
(1,930)	1:119:A:ILE:HD13	1:175:A:PHE:HA	7	0.47
(1,929)	1:119:A:ILE:HD13	1:123:A:GLU:H	2	0.47
(1,929)	1:119:A:ILE:HD11	1:123:A:GLU:H	9	0.47
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD13	14	0.47
(1,900)	1:152:A:ILE:H	1:152:A:ILE:HD11	15	0.47
(1,899)	1:119:A:ILE:HG22	1:180:A:LEU:HD13	5	0.47
(1,897)	1:119:A:ILE:HG23	1:127:A:LEU:HD13	3	0.47
(1,890)	1:119:A:ILE:HG22	1:175:A:PHE:HD1	4	0.47
(1,890)	1:119:A:ILE:HG23	1:175:A:PHE:HD1	16	0.47
(1,890)	1:119:A:ILE:HG23	1:175:A:PHE:HD1	20	0.47
(1,870)	1:183:A:ILE:HG22	1:172:A:ARG:H	5	0.47
(1,860)	1:155:A:ILE:H	1:155:A:ILE:HG23	15	0.47
(1,856)	1:130:A:ALA:HB1	1:126:A:LYS:HB2	11	0.47
(1,856)	1:130:A:ALA:HB2	1:126:A:LYS:HB2	19	0.47
(1,850)	1:183:A:ILE:HG23	1:114:A:GLU:H	20	0.47
(1,848)	1:155:A:ILE:HG22	1:145:A:PHE:HD1	18	0.47
(1,846)	1:136:A:VAL:HG12	1:146:A:THR:H	8	0.47
(1,846)	1:136:A:VAL:HG12	1:146:A:THR:H	12	0.47
(1,826)	1:184:A:VAL:HG13	1:171:A:ALA:HA	3	0.47
(1,808)	1:136:A:VAL:HG23	1:140:A:THR:H	2	0.47
(1,808)	1:136:A:VAL:HG23	1:140:A:THR:H	18	0.47
(1,784)	1:184:A:VAL:HG23	1:184:A:VAL:HG11	7	0.47
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG21	3	0.47
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG21	11	0.47
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG22	12	0.47
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG21	14	0.47
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG12	18	0.47
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD12	12	0.47
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD12	14	0.47
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	6	0.47
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	7	0.47
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	7	0.47
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	14	0.47
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	16	0.47
(1,490)	1:117:A:MET:HB2	1:119:A:ILE:HG22	13	0.47
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG21	6	0.47
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG23	12	0.47
(1,446)	1:128:A:LEU:H	1:129:A:GLU:HG2	1	0.47
(1,389)	1:175:A:PHE:HB3	1:174:A:THR:HG23	4	0.47
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	1	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG21	6	0.47
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG22	18	0.47
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG21	19	0.47
(1,234)	1:154:A:MET:HA	1:173:A:LEU:HD21	3	0.47
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	2	0.47
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	3	0.47
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	4	0.47
(1,66)	1:158:A:PRO:HA	1:159:A:PHE:HD1	10	0.47
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD12	3	0.47
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD12	17	0.47
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	2	0.47
(2,284)	1:147:A:VAL:HG22	1:152:A:ILE:HD13	12	0.46
(2,266)	1:113:A:LEU:HD21	1:173:A:LEU:HA	19	0.46
(2,263)	1:147:A:VAL:HG23	1:146:A:THR:H	2	0.46
(2,262)	1:113:A:LEU:HD21	1:180:A:LEU:HD12	14	0.46
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	2	0.46
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	9	0.46
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	10	0.46
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	11	0.46
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	16	0.46
(2,225)	1:173:A:LEU:HD21	1:173:A:LEU:H	12	0.46
(2,225)	1:173:A:LEU:HD21	1:173:A:LEU:H	16	0.46
(2,223)	1:173:A:LEU:HD22	1:152:A:ILE:H	17	0.46
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	14	0.46
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	1	0.46
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	11	0.46
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	13	0.46
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	15	0.46
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	16	0.46
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	17	0.46
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	19	0.46
(2,190)	1:139:A:MET:H	1:139:A:MET:HG3	4	0.46
(2,183)	1:121:A:LYS:HB3	1:122:A:ASN:HB2	9	0.46
(2,181)	1:117:A:MET:HG2	1:113:A:LEU:HD21	5	0.46
(2,176)	1:114:A:GLU:HB3	1:183:A:ILE:HD12	7	0.46
(2,156)	1:168:A:GLN:HG2	1:155:A:ILE:HD11	4	0.46
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	1	0.46
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	15	0.46
(2,137)	1:117:A:MET:HB3	1:114:A:GLU:HB2	4	0.46
(2,123)	1:123:A:GLU:HG2	1:119:A:ILE:HA	2	0.46
(2,115)	1:122:A:ASN:HB3	1:126:A:LYS:H	9	0.46
(2,115)	1:122:A:ASN:HB3	1:126:A:LYS:H	17	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,64)	1:170:A:ARG:HD3	1:186:A:MET:HG2	6	0.46
(2,47)	1:160:A:ASP:HA	1:159:A:PHE:HB3	3	0.46
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	19	0.46
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	8	0.46
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	13	0.46
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	3	0.46
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	7	0.46
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	14	0.46
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	5	0.46
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG21	7	0.46
(2,9)	1:164:A:SER:HB3	1:161:A:PHE:HD1	11	0.46
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	18	0.46
(1,1249)	1:151:A:SER:H	1:151:A:SER:HB2	13	0.46
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG23	5	0.46
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG21	20	0.46
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD1	2	0.46
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD12	9	0.46
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD12	17	0.46
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD13	10	0.46
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	5	0.46
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	17	0.46
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB3	8	0.46
(1,890)	1:119:A:ILE:HG23	1:175:A:PHE:HD1	19	0.46
(1,856)	1:130:A:ALA:HB1	1:126:A:LYS:HB2	3	0.46
(1,856)	1:130:A:ALA:HB3	1:126:A:LYS:HB2	6	0.46
(1,856)	1:130:A:ALA:HB1	1:126:A:LYS:HB2	13	0.46
(1,850)	1:183:A:ILE:HG22	1:114:A:GLU:H	17	0.46
(1,848)	1:155:A:ILE:HG22	1:145:A:PHE:HD1	16	0.46
(1,846)	1:136:A:VAL:HG13	1:146:A:THR:H	2	0.46
(1,834)	1:181:A:ALA:HB3	1:175:A:PHE:HB3	4	0.46
(1,826)	1:184:A:VAL:HG11	1:171:A:ALA:HA	1	0.46
(1,826)	1:184:A:VAL:HG11	1:171:A:ALA:HA	9	0.46
(1,826)	1:184:A:VAL:HG13	1:171:A:ALA:HA	18	0.46
(1,808)	1:136:A:VAL:HG23	1:140:A:THR:H	1	0.46
(1,808)	1:136:A:VAL:HG23	1:140:A:THR:H	11	0.46
(1,808)	1:136:A:VAL:HG22	1:140:A:THR:H	19	0.46
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG23	5	0.46
(1,784)	1:184:A:VAL:HG21	1:184:A:VAL:HG12	3	0.46
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG21	6	0.46
(1,757)	1:171:A:ALA:HB3	1:192:A:PHE:HD1	15	0.46
(1,686)	1:197:A:LEU:HD11	1:197:A:LEU:HA	11	0.46
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG23	2	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG21	16	0.46
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG22	17	0.46
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	8	0.46
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	2	0.46
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	9	0.46
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	14	0.46
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	16	0.46
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	11	0.46
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	13	0.46
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	17	0.46
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG21	7	0.46
(1,446)	1:128:A:LEU:H	1:129:A:GLU:HG2	12	0.46
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG22	6	0.46
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG21	7	0.46
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	3	0.46
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG22	7	0.46
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	3	0.46
(1,353)	1:193:A:GLY:HA2	1:184:A:VAL:HG13	2	0.46
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD12	13	0.46
(1,304)	1:160:A:ASP:HA	1:159:A:PHE:HD2	17	0.46
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB2	16	0.46
(1,269)	1:180:A:LEU:HA	1:180:A:LEU:HD22	7	0.46
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG22	5	0.46
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD11	7	0.46
(1,259)	1:179:A:HIS:HA	1:180:A:LEU:HD13	14	0.46
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG22	10	0.46
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD21	7	0.46
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	18	0.46
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG12	19	0.46
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD13	10	0.46
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD11	13	0.46
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD13	18	0.46
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD12	20	0.46
(2,266)	1:113:A:LEU:HD23	1:173:A:LEU:HA	20	0.45
(2,260)	1:125:A:VAL:HG22	1:128:A:LEU:HD13	13	0.45
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	5	0.45
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	7	0.45
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	11	0.45
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	12	0.45
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	6	0.45
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	7	0.45
(2,236)	1:126:A:LYS:HA	1:126:A:LYS:HG2	15	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,225)	1:173:A:LEU:HD22	1:173:A:LEU:H	2	0.45
(2,225)	1:173:A:LEU:HD23	1:173:A:LEU:H	5	0.45
(2,223)	1:173:A:LEU:HD22	1:152:A:ILE:H	19	0.45
(2,222)	1:134:A:ARG:HD2	1:134:A:ARG:HG2	18	0.45
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	20	0.45
(2,214)	1:161:A:PHE:HA	1:162:A:PRO:HG3	7	0.45
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	2	0.45
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	7	0.45
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	14	0.45
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	3	0.45
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	11	0.45
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	20	0.45
(2,112)	1:122:A:ASN:HB2	1:124:A:MET:H	2	0.45
(2,112)	1:122:A:ASN:HB2	1:124:A:MET:H	5	0.45
(2,112)	1:122:A:ASN:HB2	1:124:A:MET:H	15	0.45
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	11	0.45
(2,66)	1:170:A:ARG:HD2	1:187:A:GLU:H	5	0.45
(2,66)	1:170:A:ARG:HD2	1:187:A:GLU:H	15	0.45
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	17	0.45
(2,61)	1:170:A:ARG:HD2	1:169:A:VAL:HG13	3	0.45
(2,46)	1:153:A:GLU:HA	1:186:A:MET:HG3	10	0.45
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	1	0.45
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	1	0.45
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	18	0.45
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	15	0.45
(2,9)	1:164:A:SER:HB3	1:161:A:PHE:HD2	15	0.45
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	19	0.45
(1,1249)	1:151:A:SER:H	1:151:A:SER:HB2	1	0.45
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG21	8	0.45
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD12	2	0.45
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG21	16	0.45
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG23	17	0.45
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	4	0.45
(1,1039)	1:130:A:ALA:H	1:129:A:GLU:HB3	20	0.45
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD11	16	0.45
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD12	17	0.45
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD13	20	0.45
(1,914)	1:183:A:ILE:HD11	1:182:A:THR:H	2	0.45
(1,914)	1:183:A:ILE:HD11	1:182:A:THR:H	17	0.45
(1,912)	1:152:A:ILE:HD11	1:173:A:LEU:HD22	15	0.45
(1,907)	1:152:A:ILE:HD13	1:124:A:MET:HA	8	0.45
(1,907)	1:152:A:ILE:HD11	1:124:A:MET:HA	11	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,903)	1:152:A:ILE:HD11	1:175:A:PHE:HE1	18	0.45
(1,903)	1:152:A:ILE:HD12	1:175:A:PHE:HE2	19	0.45
(1,890)	1:119:A:ILE:HG23	1:175:A:PHE:HD1	8	0.45
(1,890)	1:119:A:ILE:HG22	1:175:A:PHE:HD1	17	0.45
(1,870)	1:183:A:ILE:HG22	1:172:A:ARG:H	12	0.45
(1,870)	1:183:A:ILE:HG21	1:172:A:ARG:H	16	0.45
(1,856)	1:130:A:ALA:HB3	1:126:A:LYS:HB2	14	0.45
(1,856)	1:130:A:ALA:HB3	1:126:A:LYS:HB2	16	0.45
(1,856)	1:130:A:ALA:HB3	1:126:A:LYS:HB2	20	0.45
(1,846)	1:136:A:VAL:HG11	1:146:A:THR:H	5	0.45
(1,826)	1:184:A:VAL:HG12	1:171:A:ALA:HA	8	0.45
(1,826)	1:184:A:VAL:HG11	1:171:A:ALA:HA	16	0.45
(1,826)	1:184:A:VAL:HG12	1:171:A:ALA:HA	20	0.45
(1,808)	1:136:A:VAL:HG21	1:140:A:THR:H	3	0.45
(1,808)	1:136:A:VAL:HG22	1:140:A:THR:H	6	0.45
(1,808)	1:136:A:VAL:HG21	1:140:A:THR:H	15	0.45
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG21	14	0.45
(1,761)	1:147:A:VAL:HG21	1:135:A:GLN:H	5	0.45
(1,757)	1:171:A:ALA:HB1	1:192:A:PHE:HD1	4	0.45
(1,748)	1:180:A:LEU:HD11	1:119:A:ILE:HG13	15	0.45
(1,737)	1:171:A:ALA:HB1	1:192:A:PHE:HE1	4	0.45
(1,722)	1:127:A:LEU:HD13	1:123:A:GLU:HB2	1	0.45
(1,721)	1:197:A:LEU:HD22	1:175:A:PHE:H	12	0.45
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG23	5	0.45
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG22	6	0.45
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG23	11	0.45
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG22	15	0.45
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG22	19	0.45
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG11	2	0.45
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG12	4	0.45
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG12	9	0.45
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG12	11	0.45
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG12	16	0.45
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG11	20	0.45
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD12	8	0.45
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	14	0.45
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	3	0.45
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	10	0.45
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	11	0.45
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	12	0.45
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	17	0.45
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	18	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	19	0.45
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	20	0.45
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	3	0.45
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	15	0.45
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	18	0.45
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG13	13	0.45
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG22	13	0.45
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG23	20	0.45
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	4	0.45
(1,446)	1:128:A:LEU:H	1:129:A:GLU:HG2	10	0.45
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG21	14	0.45
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	11	0.45
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	18	0.45
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	19	0.45
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	5	0.45
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD12	8	0.45
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD12	19	0.45
(1,304)	1:160:A:ASP:HA	1:159:A:PHE:HD1	4	0.45
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG21	8	0.45
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG23	11	0.45
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD21	6	0.45
(1,66)	1:158:A:PRO:HA	1:159:A:PHE:HD1	4	0.45
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD11	11	0.45
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	11	0.44
(2,267)	1:113:A:LEU:HD22	1:117:A:MET:HB3	19	0.44
(2,266)	1:113:A:LEU:HD21	1:173:A:LEU:HA	15	0.44
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	15	0.44
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	6	0.44
(2,225)	1:173:A:LEU:HD22	1:173:A:LEU:H	20	0.44
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	18	0.44
(2,211)	1:162:A:PRO:HG2	1:163:A:ASP:HA	3	0.44
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	18	0.44
(2,190)	1:139:A:MET:H	1:139:A:MET:HG3	14	0.44
(2,183)	1:121:A:LYS:HB3	1:122:A:ASN:HB2	14	0.44
(2,169)	1:153:A:GLU:HG3	1:186:A:MET:HG3	10	0.44
(2,169)	1:153:A:GLU:HG3	1:186:A:MET:HG3	16	0.44
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	4	0.44
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	7	0.44
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	17	0.44
(2,134)	1:166:A:GLU:HG3	1:159:A:PHE:HD2	2	0.44
(2,134)	1:166:A:GLU:HG3	1:159:A:PHE:HD2	19	0.44
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	2	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD2	7	0.44
(2,47)	1:160:A:ASP:HA	1:159:A:PHE:HB3	6	0.44
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	3	0.44
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	12	0.44
(2,21)	1:126:A:LYS:HA	1:123:A:GLU:HA	13	0.44
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	11	0.44
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	7	0.44
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	8	0.44
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG22	9	0.44
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD13	4	0.44
(1,930)	1:119:A:ILE:HD11	1:175:A:PHE:HA	15	0.44
(1,907)	1:152:A:ILE:HD11	1:124:A:MET:HA	20	0.44
(1,902)	1:152:A:ILE:HD13	1:133:A:TYR:HD2	7	0.44
(1,870)	1:183:A:ILE:HG21	1:172:A:ARG:H	11	0.44
(1,856)	1:130:A:ALA:HB2	1:126:A:LYS:HB2	5	0.44
(1,856)	1:130:A:ALA:HB2	1:126:A:LYS:HB2	12	0.44
(1,856)	1:130:A:ALA:HB3	1:126:A:LYS:HB2	18	0.44
(1,850)	1:183:A:ILE:HG23	1:114:A:GLU:H	3	0.44
(1,850)	1:183:A:ILE:HG23	1:114:A:GLU:H	7	0.44
(1,848)	1:155:A:ILE:HG21	1:145:A:PHE:HD1	14	0.44
(1,834)	1:181:A:ALA:HB3	1:175:A:PHE:HB3	17	0.44
(1,826)	1:184:A:VAL:HG11	1:171:A:ALA:HA	10	0.44
(1,810)	1:174:A:THR:HG23	1:181:A:ALA:H	2	0.44
(1,810)	1:174:A:THR:HG22	1:181:A:ALA:H	18	0.44
(1,808)	1:136:A:VAL:HG22	1:140:A:THR:H	10	0.44
(1,784)	1:184:A:VAL:HG23	1:184:A:VAL:HG11	4	0.44
(1,769)	1:128:A:LEU:HD21	1:124:A:MET:HA	16	0.44
(1,761)	1:147:A:VAL:HG21	1:135:A:GLN:H	11	0.44
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB3	10	0.44
(1,727)	1:197:A:LEU:HA	1:197:A:LEU:HD21	17	0.44
(1,721)	1:197:A:LEU:HD23	1:175:A:PHE:H	15	0.44
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD22	2	0.44
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD22	18	0.44
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG22	3	0.44
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG22	4	0.44
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG21	13	0.44
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG11	1	0.44
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG13	5	0.44
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG12	8	0.44
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	1	0.44
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD11	10	0.44
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	4	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	8	0.44
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	13	0.44
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	15	0.44
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	1	0.44
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	4	0.44
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	5	0.44
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	6	0.44
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	9	0.44
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	10	0.44
(1,488)	1:117:A:MET:HB2	1:114:A:GLU:H	6	0.44
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG21	2	0.44
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG23	2	0.44
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG22	3	0.44
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG23	5	0.44
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG22	17	0.44
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG21	9	0.44
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	16	0.44
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	11	0.44
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB2	11	0.44
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	10	0.44
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG21	2	0.44
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG22	1	0.44
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG23	2	0.44
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	17	0.44
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	16	0.44
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	5	0.44
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD13	8	0.44
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD12	9	0.44
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	3	0.44
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	13	0.44
(2,285)	1:186:A:MET:HG2	1:186:A:MET:HB2	4	0.43
(2,285)	1:186:A:MET:HG2	1:186:A:MET:HB2	13	0.43
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	17	0.43
(2,284)	1:147:A:VAL:HG22	1:152:A:ILE:HD11	16	0.43
(2,262)	1:113:A:LEU:HD21	1:180:A:LEU:HD11	8	0.43
(2,262)	1:113:A:LEU:HD23	1:180:A:LEU:HD13	17	0.43
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	14	0.43
(2,227)	1:173:A:LEU:HD13	1:113:A:LEU:HD23	12	0.43
(2,190)	1:139:A:MET:H	1:139:A:MET:HG3	5	0.43
(2,190)	1:139:A:MET:H	1:139:A:MET:HG3	8	0.43
(2,190)	1:139:A:MET:H	1:139:A:MET:HG3	9	0.43
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	2	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	2	0.43
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	5	0.43
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	9	0.43
(2,115)	1:122:A:ASN:HB3	1:126:A:LYS:H	7	0.43
(2,114)	1:122:A:ASN:HB3	1:125:A:VAL:HG13	2	0.43
(2,114)	1:122:A:ASN:HB3	1:125:A:VAL:HG13	3	0.43
(2,112)	1:122:A:ASN:HB3	1:124:A:MET:H	9	0.43
(2,112)	1:122:A:ASN:HB3	1:124:A:MET:H	10	0.43
(2,88)	1:165:A:LYS:HE2	1:164:A:SER:H	9	0.43
(2,69)	1:140:A:THR:HA	1:141:A:ARG:HD3	1	0.43
(2,66)	1:170:A:ARG:HD2	1:187:A:GLU:H	6	0.43
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	11	0.43
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	14	0.43
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	20	0.43
(1,1263)	1:182:A:THR:H	1:180:A:LEU:HB2	5	0.43
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG21	12	0.43
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD2	6	0.43
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	17	0.43
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	19	0.43
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	20	0.43
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD12	15	0.43
(1,907)	1:152:A:ILE:HD12	1:124:A:MET:HA	6	0.43
(1,903)	1:152:A:ILE:HD11	1:175:A:PHE:HE1	3	0.43
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG22	6	0.43
(1,870)	1:183:A:ILE:HG23	1:172:A:ARG:H	8	0.43
(1,857)	1:130:A:ALA:HB2	1:127:A:LEU:HD21	8	0.43
(1,856)	1:130:A:ALA:HB2	1:126:A:LYS:HB2	4	0.43
(1,848)	1:155:A:ILE:HG21	1:145:A:PHE:HD1	12	0.43
(1,846)	1:136:A:VAL:HG11	1:146:A:THR:H	10	0.43
(1,834)	1:181:A:ALA:HB2	1:175:A:PHE:HB3	5	0.43
(1,834)	1:181:A:ALA:HB1	1:175:A:PHE:HB3	12	0.43
(1,834)	1:181:A:ALA:HB1	1:175:A:PHE:HB3	14	0.43
(1,834)	1:181:A:ALA:HB2	1:175:A:PHE:HB3	20	0.43
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG11	17	0.43
(1,826)	1:184:A:VAL:HG11	1:171:A:ALA:HA	11	0.43
(1,826)	1:184:A:VAL:HG11	1:171:A:ALA:HA	17	0.43
(1,813)	1:140:A:THR:HG23	1:138:A:LYS:HG3	11	0.43
(1,813)	1:140:A:THR:HG22	1:138:A:LYS:HG3	15	0.43
(1,808)	1:136:A:VAL:HG22	1:140:A:THR:H	7	0.43
(1,808)	1:136:A:VAL:HG21	1:140:A:THR:H	20	0.43
(1,784)	1:184:A:VAL:HG22	1:184:A:VAL:HG11	20	0.43
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG23	1	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG21	17	0.43
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD22	1	0.43
(1,769)	1:128:A:LEU:HD22	1:124:A:MET:HA	15	0.43
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD22	14	0.43
(1,761)	1:147:A:VAL:HG22	1:135:A:GLN:H	9	0.43
(1,761)	1:147:A:VAL:HG23	1:135:A:GLN:H	14	0.43
(1,757)	1:171:A:ALA:HB1	1:192:A:PHE:HD1	1	0.43
(1,757)	1:171:A:ALA:HB1	1:192:A:PHE:HD1	10	0.43
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB1	9	0.43
(1,727)	1:197:A:LEU:HA	1:197:A:LEU:HD22	13	0.43
(1,686)	1:197:A:LEU:HD13	1:197:A:LEU:HA	20	0.43
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD22	11	0.43
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG23	1	0.43
(1,643)	1:183:A:ILE:HG13	1:182:A:THR:HG21	7	0.43
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG12	7	0.43
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG13	17	0.43
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	3	0.43
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	13	0.43
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD13	16	0.43
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD13	12	0.43
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	20	0.43
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG21	17	0.43
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	3	0.43
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	20	0.43
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG22	9	0.43
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG23	11	0.43
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	17	0.43
(1,317)	1:114:A:GLU:HA	1:183:A:ILE:HD12	18	0.43
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	1	0.43
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	6	0.43
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	12	0.43
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	14	0.43
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB1	20	0.43
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	2	0.43
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	13	0.43
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG11	11	0.43
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	20	0.43
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD12	7	0.43
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD13	1	0.43
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD12	2	0.43
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD12	7	0.43
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD12	15	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD11	16	0.43
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD12	19	0.43
(1,16)	1:146:A:THR:HB	1:136:A:VAL:HG12	20	0.43
(1,6)	1:133:A:TYR:HD1	1:128:A:LEU:HG	7	0.43
(2,284)	1:147:A:VAL:HG21	1:152:A:ILE:HD12	9	0.42
(2,284)	1:147:A:VAL:HG23	1:152:A:ILE:HD13	11	0.42
(2,266)	1:113:A:LEU:HD21	1:173:A:LEU:HA	3	0.42
(2,223)	1:173:A:LEU:HD21	1:152:A:ILE:H	16	0.42
(2,205)	1:165:A:LYS:HE3	1:165:A:LYS:HD2	9	0.42
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	13	0.42
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	15	0.42
(2,123)	1:123:A:GLU:HG2	1:119:A:ILE:HA	5	0.42
(2,123)	1:123:A:GLU:HG2	1:119:A:ILE:HA	20	0.42
(2,109)	1:154:A:MET:HB3	1:173:A:LEU:HG	13	0.42
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	14	0.42
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB3	4	0.42
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	17	0.42
(2,56)	1:197:A:LEU:HB3	1:176:A:ASP:HA	6	0.42
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	12	0.42
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	15	0.42
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	4	0.42
(1,1165)	1:117:A:MET:H	1:180:A:LEU:HD22	10	0.42
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD13	11	0.42
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD11	15	0.42
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	3	0.42
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	5	0.42
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	6	0.42
(1,973)	1:171:A:ALA:H	1:170:A:ARG:HD2	19	0.42
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD12	1	0.42
(1,931)	1:119:A:ILE:HD12	1:180:A:LEU:HA	18	0.42
(1,917)	1:173:A:LEU:HG	1:183:A:ILE:HD11	12	0.42
(1,914)	1:183:A:ILE:HD13	1:182:A:THR:H	13	0.42
(1,914)	1:183:A:ILE:HD12	1:182:A:THR:H	14	0.42
(1,912)	1:152:A:ILE:HD12	1:173:A:LEU:HD23	16	0.42
(1,907)	1:152:A:ILE:HD11	1:124:A:MET:HA	5	0.42
(1,903)	1:152:A:ILE:HD12	1:175:A:PHE:HE1	2	0.42
(1,903)	1:152:A:ILE:HD11	1:175:A:PHE:HE1	11	0.42
(1,897)	1:119:A:ILE:HG22	1:127:A:LEU:HD11	16	0.42
(1,897)	1:119:A:ILE:HG21	1:127:A:LEU:HD13	17	0.42
(1,897)	1:119:A:ILE:HG21	1:127:A:LEU:HD11	18	0.42
(1,890)	1:119:A:ILE:HG21	1:175:A:PHE:HD1	14	0.42
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG22	6	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG22	8	0.42
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG22	13	0.42
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG23	12	0.42
(1,870)	1:183:A:ILE:HG22	1:172:A:ARG:H	1	0.42
(1,870)	1:183:A:ILE:HG21	1:172:A:ARG:H	3	0.42
(1,870)	1:183:A:ILE:HG21	1:172:A:ARG:H	20	0.42
(1,857)	1:130:A:ALA:HB1	1:127:A:LEU:HD22	19	0.42
(1,856)	1:130:A:ALA:HB3	1:126:A:LYS:HB2	8	0.42
(1,850)	1:183:A:ILE:HG21	1:114:A:GLU:H	1	0.42
(1,850)	1:183:A:ILE:HG22	1:114:A:GLU:H	9	0.42
(1,846)	1:136:A:VAL:HG13	1:146:A:THR:H	9	0.42
(1,846)	1:136:A:VAL:HG12	1:146:A:THR:H	14	0.42
(1,834)	1:181:A:ALA:HB3	1:175:A:PHE:HB3	9	0.42
(1,834)	1:181:A:ALA:HB2	1:175:A:PHE:HB3	11	0.42
(1,834)	1:181:A:ALA:HB3	1:175:A:PHE:HB3	16	0.42
(1,826)	1:184:A:VAL:HG11	1:171:A:ALA:HA	2	0.42
(1,826)	1:184:A:VAL:HG12	1:171:A:ALA:HA	4	0.42
(1,810)	1:174:A:THR:HG23	1:181:A:ALA:H	4	0.42
(1,808)	1:136:A:VAL:HG21	1:140:A:THR:H	13	0.42
(1,808)	1:136:A:VAL:HG21	1:140:A:THR:H	16	0.42
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG21	18	0.42
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG21	2	0.42
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG23	7	0.42
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG22	5	0.42
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD23	3	0.42
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD22	20	0.42
(1,757)	1:171:A:ALA:HB1	1:192:A:PHE:HD1	5	0.42
(1,748)	1:180:A:LEU:HD13	1:119:A:ILE:HG13	14	0.42
(1,737)	1:171:A:ALA:HB2	1:192:A:PHE:HE1	13	0.42
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB1	2	0.42
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB2	15	0.42
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB2	17	0.42
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD22	1	0.42
(1,670)	1:173:A:LEU:HD13	1:175:A:PHE:HD1	4	0.42
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	18	0.42
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD12	8	0.42
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD13	9	0.42
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD11	15	0.42
(1,584)	1:123:A:GLU:HB2	1:120:A:SER:H	5	0.42
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	19	0.42
(1,547)	1:167:A:GLY:HA2	1:158:A:PRO:HB3	19	0.42
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD12	4	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	9	0.42
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG13	20	0.42
(1,446)	1:128:A:LEU:H	1:129:A:GLU:HG2	8	0.42
(1,446)	1:128:A:LEU:H	1:129:A:GLU:HG2	9	0.42
(1,446)	1:128:A:LEU:H	1:129:A:GLU:HG2	16	0.42
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG21	16	0.42
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	10	0.42
(1,316)	1:141:A:ARG:HA	1:155:A:ILE:HD13	1	0.42
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	10	0.42
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	15	0.42
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD12	11	0.42
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD12	20	0.42
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG22	7	0.42
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG21	8	0.42
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	3	0.42
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG23	9	0.42
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	11	0.42
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	20	0.42
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG23	17	0.42
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG21	20	0.42
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	9	0.42
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	20	0.42
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG12	9	0.42
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	3	0.42
(1,66)	1:158:A:PRO:HA	1:159:A:PHE:HD2	5	0.42
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	18	0.42
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG22	1	0.42
(1,12)	1:194:A:PHE:HD2	1:193:A:GLY:HA3	4	0.42
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	7	0.41
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	10	0.41
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	12	0.41
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	15	0.41
(2,266)	1:113:A:LEU:HD23	1:173:A:LEU:HA	13	0.41
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	11	0.41
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	10	0.41
(2,225)	1:173:A:LEU:HD22	1:173:A:LEU:H	9	0.41
(2,225)	1:173:A:LEU:HD22	1:173:A:LEU:H	11	0.41
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	2	0.41
(2,190)	1:139:A:MET:H	1:139:A:MET:HG3	6	0.41
(2,123)	1:123:A:GLU:HG3	1:119:A:ILE:HA	9	0.41
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	9	0.41
(2,112)	1:122:A:ASN:HB3	1:124:A:MET:H	12	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	15	0.41
(2,88)	1:165:A:LYS:HE2	1:164:A:SER:H	2	0.41
(2,88)	1:165:A:LYS:HE3	1:164:A:SER:H	15	0.41
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	3	0.41
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	10	0.41
(2,66)	1:170:A:ARG:HD3	1:187:A:GLU:H	16	0.41
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	6	0.41
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	10	0.41
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD13	7	0.41
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD13	8	0.41
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	2	0.41
(2,9)	1:164:A:SER:HB3	1:161:A:PHE:HD1	12	0.41
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG21	7	0.41
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD11	12	0.41
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	2	0.41
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	4	0.41
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	11	0.41
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	14	0.41
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	18	0.41
(1,931)	1:119:A:ILE:HD11	1:180:A:LEU:HA	4	0.41
(1,931)	1:119:A:ILE:HD13	1:180:A:LEU:HA	7	0.41
(1,930)	1:119:A:ILE:HD12	1:175:A:PHE:HA	1	0.41
(1,930)	1:119:A:ILE:HD12	1:175:A:PHE:HA	6	0.41
(1,930)	1:119:A:ILE:HD13	1:175:A:PHE:HA	14	0.41
(1,930)	1:119:A:ILE:HD12	1:175:A:PHE:HA	16	0.41
(1,929)	1:119:A:ILE:HD11	1:123:A:GLU:H	10	0.41
(1,914)	1:183:A:ILE:HD13	1:182:A:THR:H	12	0.41
(1,902)	1:152:A:ILE:HD12	1:133:A:TYR:HD2	8	0.41
(1,898)	1:119:A:ILE:HG22	1:119:A:ILE:HD12	12	0.41
(1,897)	1:119:A:ILE:HG21	1:127:A:LEU:HD13	5	0.41
(1,870)	1:183:A:ILE:HG23	1:172:A:ARG:H	17	0.41
(1,870)	1:183:A:ILE:HG22	1:172:A:ARG:H	19	0.41
(1,856)	1:130:A:ALA:HB1	1:126:A:LYS:HB2	1	0.41
(1,856)	1:130:A:ALA:HB3	1:126:A:LYS:HB2	17	0.41
(1,850)	1:183:A:ILE:HG21	1:114:A:GLU:H	2	0.41
(1,850)	1:183:A:ILE:HG23	1:114:A:GLU:H	10	0.41
(1,834)	1:181:A:ALA:HB2	1:175:A:PHE:HB3	18	0.41
(1,822)	1:169:A:VAL:HG11	1:156:A:ARG:H	14	0.41
(1,822)	1:169:A:VAL:HG12	1:156:A:ARG:H	19	0.41
(1,813)	1:140:A:THR:HG21	1:138:A:LYS:HG3	10	0.41
(1,810)	1:174:A:THR:HG22	1:181:A:ALA:H	3	0.41
(1,810)	1:174:A:THR:HG22	1:181:A:ALA:H	6	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,810)	1:174:A:THR:HG23	1:181:A:ALA:H	14	0.41
(1,810)	1:174:A:THR:HG23	1:181:A:ALA:H	16	0.41
(1,808)	1:136:A:VAL:HG23	1:140:A:THR:H	12	0.41
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG23	3	0.41
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG22	7	0.41
(1,784)	1:184:A:VAL:HG23	1:184:A:VAL:HG13	9	0.41
(1,784)	1:184:A:VAL:HG23	1:184:A:VAL:HG12	13	0.41
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD22	19	0.41
(1,769)	1:128:A:LEU:HD23	1:124:A:MET:HA	12	0.41
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD22	6	0.41
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD23	9	0.41
(1,748)	1:180:A:LEU:HD11	1:119:A:ILE:HG13	7	0.41
(1,737)	1:171:A:ALA:HB3	1:192:A:PHE:HE1	6	0.41
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD22	10	0.41
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD22	20	0.41
(1,670)	1:173:A:LEU:HD11	1:175:A:PHE:HD1	8	0.41
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD12	2	0.41
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD11	5	0.41
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD11	17	0.41
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD12	20	0.41
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	1	0.41
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	2	0.41
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	12	0.41
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	10	0.41
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	6	0.41
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	18	0.41
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG23	4	0.41
(1,479)	1:169:A:VAL:HB	1:156:A:ARG:HB3	13	0.41
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	11	0.41
(1,446)	1:128:A:LEU:H	1:129:A:GLU:HG2	13	0.41
(1,439)	1:189:A:ASN:HB2	1:184:A:VAL:HG11	18	0.41
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG23	8	0.41
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG23	20	0.41
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	5	0.41
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG22	4	0.41
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	11	0.41
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	17	0.41
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	8	0.41
(1,353)	1:193:A:GLY:HA2	1:184:A:VAL:HG11	19	0.41
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	18	0.41
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG21	16	0.41
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	19	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	2	0.41
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	5	0.41
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	8	0.41
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	10	0.41
(1,142)	1:182:A:THR:HA	1:180:A:LEU:HD23	18	0.41
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG12	2	0.41
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG13	3	0.41
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG12	13	0.41
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD13	12	0.41
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	6	0.41
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG23	11	0.41
(2,284)	1:147:A:VAL:HG21	1:152:A:ILE:HD11	4	0.4
(2,284)	1:147:A:VAL:HG22	1:152:A:ILE:HD12	5	0.4
(2,260)	1:125:A:VAL:HG23	1:128:A:LEU:HD12	15	0.4
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	10	0.4
(2,227)	1:173:A:LEU:HD13	1:113:A:LEU:HD23	9	0.4
(2,225)	1:173:A:LEU:HD22	1:173:A:LEU:H	17	0.4
(2,223)	1:173:A:LEU:HD21	1:152:A:ILE:H	12	0.4
(2,223)	1:173:A:LEU:HD22	1:152:A:ILE:H	14	0.4
(2,146)	1:145:A:PHE:H	1:134:A:ARG:HB2	18	0.4
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	8	0.4
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	11	0.4
(2,134)	1:166:A:GLU:HG3	1:159:A:PHE:HD1	14	0.4
(2,114)	1:122:A:ASN:HB3	1:125:A:VAL:HG13	5	0.4
(2,112)	1:122:A:ASN:HB2	1:124:A:MET:H	4	0.4
(2,109)	1:154:A:MET:HB3	1:173:A:LEU:HG	8	0.4
(2,109)	1:154:A:MET:HB3	1:173:A:LEU:HG	14	0.4
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	5	0.4
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB3	1	0.4
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	13	0.4
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	5	0.4
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	18	0.4
(1,1249)	1:151:A:SER:H	1:151:A:SER:HB2	12	0.4
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD2	3	0.4
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	7	0.4
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	15	0.4
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD23	15	0.4
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB1	3	0.4
(1,931)	1:119:A:ILE:HD12	1:180:A:LEU:HA	11	0.4
(1,931)	1:119:A:ILE:HD13	1:180:A:LEU:HA	14	0.4
(1,912)	1:152:A:ILE:HD12	1:173:A:LEU:HD22	13	0.4
(1,903)	1:152:A:ILE:HD13	1:175:A:PHE:HE1	20	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,897)	1:119:A:ILE:HG22	1:127:A:LEU:HD11	19	0.4
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG21	10	0.4
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG21	4	0.4
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG22	7	0.4
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG22	19	0.4
(1,870)	1:183:A:ILE:HG22	1:172:A:ARG:H	2	0.4
(1,870)	1:183:A:ILE:HG21	1:172:A:ARG:H	4	0.4
(1,870)	1:183:A:ILE:HG21	1:172:A:ARG:H	7	0.4
(1,834)	1:181:A:ALA:HB2	1:175:A:PHE:HB3	2	0.4
(1,834)	1:181:A:ALA:HB1	1:175:A:PHE:HB3	8	0.4
(1,834)	1:181:A:ALA:HB3	1:175:A:PHE:HB3	13	0.4
(1,831)	1:189:A:ASN:HB3	1:184:A:VAL:HG11	12	0.4
(1,826)	1:184:A:VAL:HG13	1:171:A:ALA:HA	13	0.4
(1,822)	1:169:A:VAL:HG11	1:156:A:ARG:H	15	0.4
(1,810)	1:174:A:THR:HG21	1:181:A:ALA:H	1	0.4
(1,808)	1:136:A:VAL:HG22	1:140:A:THR:H	4	0.4
(1,808)	1:136:A:VAL:HG22	1:140:A:THR:H	5	0.4
(1,799)	1:182:A:THR:HG21	1:194:A:PHE:HA	6	0.4
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG21	2	0.4
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG21	4	0.4
(1,789)	1:189:A:ASN:HA	1:184:A:VAL:HG23	4	0.4
(1,788)	1:139:A:MET:HB2	1:146:A:THR:HG23	1	0.4
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG22	4	0.4
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG21	16	0.4
(1,769)	1:128:A:LEU:HD21	1:124:A:MET:HA	14	0.4
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD21	13	0.4
(1,757)	1:171:A:ALA:HB1	1:192:A:PHE:HD1	19	0.4
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB3	5	0.4
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB2	6	0.4
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB3	14	0.4
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD21	3	0.4
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD23	5	0.4
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD23	15	0.4
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG11	14	0.4
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	2	0.4
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	9	0.4
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	10	0.4
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	12	0.4
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	16	0.4
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD13	4	0.4
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	2	0.4
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	14	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	3	0.4
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	4	0.4
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	5	0.4
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	6	0.4
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	7	0.4
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	9	0.4
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	13	0.4
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	15	0.4
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	16	0.4
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	17	0.4
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	18	0.4
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	20	0.4
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD12	18	0.4
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	4	0.4
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	7	0.4
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	15	0.4
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG23	9	0.4
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	2	0.4
(1,446)	1:128:A:LEU:H	1:129:A:GLU:HG2	14	0.4
(1,446)	1:128:A:LEU:H	1:129:A:GLU:HG2	19	0.4
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG23	1	0.4
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG21	13	0.4
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG21	18	0.4
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG22	19	0.4
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	6	0.4
(1,353)	1:193:A:GLY:HA2	1:184:A:VAL:HG11	7	0.4
(1,353)	1:193:A:GLY:HA2	1:184:A:VAL:HG13	11	0.4
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD13	3	0.4
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB1	19	0.4
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG23	2	0.4
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	9	0.4
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG22	7	0.4
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	9	0.4
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG22	3	0.4
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	3	0.4
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	11	0.4
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	14	0.4
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG13	5	0.4
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG13	6	0.4
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG11	12	0.4
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG23	13	0.4
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG22	2	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG21	6	0.4
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	16	0.39
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	20	0.39
(2,264)	1:147:A:VAL:HG22	1:152:A:ILE:HG22	3	0.39
(2,264)	1:147:A:VAL:HG21	1:152:A:ILE:HG21	7	0.39
(2,225)	1:173:A:LEU:HD21	1:173:A:LEU:H	3	0.39
(2,169)	1:153:A:GLU:HG3	1:186:A:MET:HG3	2	0.39
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	7	0.39
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	18	0.39
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	19	0.39
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	20	0.39
(2,134)	1:166:A:GLU:HG3	1:159:A:PHE:HD1	18	0.39
(2,134)	1:166:A:GLU:HG3	1:159:A:PHE:HD2	20	0.39
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB2	8	0.39
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	8	0.39
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	16	0.39
(2,112)	1:122:A:ASN:HB3	1:124:A:MET:H	6	0.39
(2,112)	1:122:A:ASN:HB2	1:124:A:MET:H	16	0.39
(2,112)	1:122:A:ASN:HB3	1:124:A:MET:H	20	0.39
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD2	11	0.39
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD2	13	0.39
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD2	17	0.39
(2,61)	1:170:A:ARG:HD3	1:169:A:VAL:HG11	1	0.39
(2,23)	1:136:A:VAL:HA	1:135:A:GLN:HB2	8	0.39
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	1	0.39
(1,1249)	1:151:A:SER:H	1:151:A:SER:HB2	14	0.39
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG21	2	0.39
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG22	2	0.39
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD13	3	0.39
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	12	0.39
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	13	0.39
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG23	6	0.39
(1,955)	1:156:A:ARG:H	1:155:A:ILE:HD13	19	0.39
(1,931)	1:119:A:ILE:HD12	1:180:A:LEU:HA	1	0.39
(1,907)	1:152:A:ILE:HD11	1:124:A:MET:HA	7	0.39
(1,903)	1:152:A:ILE:HD13	1:175:A:PHE:HE1	5	0.39
(1,902)	1:152:A:ILE:HD12	1:133:A:TYR:HD2	9	0.39
(1,902)	1:152:A:ILE:HD13	1:133:A:TYR:HD2	11	0.39
(1,902)	1:152:A:ILE:HD12	1:133:A:TYR:HD2	20	0.39
(1,899)	1:119:A:ILE:HG21	1:180:A:LEU:HD11	3	0.39
(1,898)	1:119:A:ILE:HG23	1:119:A:ILE:HD11	14	0.39
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG23	3	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG21	14	0.39
(1,870)	1:183:A:ILE:HG21	1:172:A:ARG:H	10	0.39
(1,870)	1:183:A:ILE:HG23	1:172:A:ARG:H	15	0.39
(1,834)	1:181:A:ALA:HB2	1:175:A:PHE:HB3	6	0.39
(1,834)	1:181:A:ALA:HB1	1:175:A:PHE:HB3	19	0.39
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG11	14	0.39
(1,822)	1:169:A:VAL:HG13	1:156:A:ARG:H	10	0.39
(1,813)	1:140:A:THR:HG21	1:138:A:LYS:HG3	4	0.39
(1,813)	1:140:A:THR:HG21	1:138:A:LYS:HG3	8	0.39
(1,813)	1:140:A:THR:HG23	1:138:A:LYS:HG3	18	0.39
(1,813)	1:140:A:THR:HG21	1:138:A:LYS:HG3	19	0.39
(1,810)	1:174:A:THR:HG22	1:181:A:ALA:H	9	0.39
(1,810)	1:174:A:THR:HG22	1:181:A:ALA:H	10	0.39
(1,810)	1:174:A:THR:HG21	1:181:A:ALA:H	13	0.39
(1,808)	1:136:A:VAL:HG21	1:140:A:THR:H	8	0.39
(1,808)	1:136:A:VAL:HG21	1:140:A:THR:H	9	0.39
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG23	5	0.39
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG23	6	0.39
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG21	11	0.39
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG22	13	0.39
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG21	19	0.39
(1,784)	1:184:A:VAL:HG22	1:184:A:VAL:HG12	6	0.39
(1,784)	1:184:A:VAL:HG23	1:184:A:VAL:HG11	8	0.39
(1,769)	1:128:A:LEU:HD21	1:124:A:MET:HA	7	0.39
(1,769)	1:128:A:LEU:HD21	1:124:A:MET:HA	13	0.39
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD21	7	0.39
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD23	2	0.39
(1,761)	1:147:A:VAL:HG23	1:135:A:GLN:H	2	0.39
(1,761)	1:147:A:VAL:HG23	1:135:A:GLN:H	12	0.39
(1,761)	1:147:A:VAL:HG22	1:135:A:GLN:H	18	0.39
(1,761)	1:147:A:VAL:HG22	1:135:A:GLN:H	20	0.39
(1,757)	1:171:A:ALA:HB3	1:192:A:PHE:HD1	7	0.39
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB3	1	0.39
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD22	10	0.39
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	13	0.39
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	20	0.39
(1,680)	1:140:A:THR:H	1:141:A:ARG:HG3	14	0.39
(1,670)	1:173:A:LEU:HD11	1:175:A:PHE:HD1	16	0.39
(1,670)	1:173:A:LEU:HD13	1:175:A:PHE:HD1	18	0.39
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	17	0.39
(1,581)	1:170:A:ARG:HB2	1:170:A:ARG:HG2	12	0.39
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	8	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	10	0.39
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	11	0.39
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD11	6	0.39
(1,483)	1:169:A:VAL:HB	1:155:A:ILE:HG22	1	0.39
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	14	0.39
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	8	0.39
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	19	0.39
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	18	0.39
(1,410)	1:150:A:ASN:HB3	1:174:A:THR:HG22	14	0.39
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	18	0.39
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	13	0.39
(1,353)	1:193:A:GLY:HA2	1:184:A:VAL:HG12	3	0.39
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	16	0.39
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	4	0.39
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	9	0.39
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	13	0.39
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	17	0.39
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD11	17	0.39
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG22	6	0.39
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG23	18	0.39
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG23	5	0.39
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	10	0.39
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	17	0.39
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG12	1	0.39
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG11	7	0.39
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG12	18	0.39
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	5	0.39
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG22	12	0.39
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG22	16	0.39
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD12	6	0.39
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	14	0.39
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG22	2	0.39
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG21	6	0.39
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG21	8	0.39
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG22	15	0.39
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG22	17	0.39
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG21	19	0.39
(1,12)	1:194:A:PHE:HD2	1:193:A:GLY:HA3	14	0.39
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	18	0.38
(2,266)	1:113:A:LEU:HD23	1:173:A:LEU:HA	5	0.38
(2,260)	1:125:A:VAL:HG22	1:128:A:LEU:HD12	16	0.38
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	5	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	6	0.38
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD13	19	0.38
(2,241)	1:132:A:GLN:HB3	1:133:A:TYR:HA	13	0.38
(2,225)	1:173:A:LEU:HD23	1:173:A:LEU:H	4	0.38
(2,225)	1:173:A:LEU:HD23	1:173:A:LEU:H	13	0.38
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	18	0.38
(2,213)	1:162:A:PRO:HG3	1:161:A:PHE:HD2	19	0.38
(2,200)	1:154:A:MET:HG3	1:173:A:LEU:HD22	3	0.38
(2,169)	1:153:A:GLU:HG3	1:186:A:MET:HG3	18	0.38
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	2	0.38
(2,134)	1:166:A:GLU:HG3	1:159:A:PHE:HD1	8	0.38
(2,134)	1:166:A:GLU:HG3	1:159:A:PHE:HD2	9	0.38
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB2	3	0.38
(2,123)	1:123:A:GLU:HG3	1:119:A:ILE:HA	12	0.38
(2,112)	1:122:A:ASN:HB3	1:124:A:MET:H	18	0.38
(2,109)	1:154:A:MET:HB3	1:173:A:LEU:HG	2	0.38
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB3	11	0.38
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	9	0.38
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD2	8	0.38
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD2	20	0.38
(2,64)	1:170:A:ARG:HD3	1:186:A:MET:HG2	5	0.38
(2,56)	1:197:A:LEU:HB3	1:176:A:ASP:HA	16	0.38
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG2	17	0.38
(2,39)	1:110:A:MET:HA	1:110:A:MET:HG3	20	0.38
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	13	0.38
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG21	19	0.38
(1,1177)	1:174:A:THR:H	1:180:A:LEU:HD13	4	0.38
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	9	0.38
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	16	0.38
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG22	2	0.38
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG22	3	0.38
(1,931)	1:119:A:ILE:HD12	1:180:A:LEU:HA	6	0.38
(1,931)	1:119:A:ILE:HD12	1:180:A:LEU:HA	13	0.38
(1,930)	1:119:A:ILE:HD12	1:175:A:PHE:HA	18	0.38
(1,914)	1:183:A:ILE:HD12	1:182:A:THR:H	3	0.38
(1,914)	1:183:A:ILE:HD13	1:182:A:THR:H	18	0.38
(1,912)	1:152:A:ILE:HD11	1:173:A:LEU:HD23	7	0.38
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD11	9	0.38
(1,902)	1:152:A:ILE:HD13	1:133:A:TYR:HD2	1	0.38
(1,897)	1:119:A:ILE:HG23	1:127:A:LEU:HD12	15	0.38
(1,897)	1:119:A:ILE:HG22	1:127:A:LEU:HD11	20	0.38
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG23	16	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,848)	1:155:A:ILE:HG21	1:145:A:PHE:HD1	4	0.38
(1,848)	1:155:A:ILE:HG21	1:145:A:PHE:HD1	9	0.38
(1,846)	1:136:A:VAL:HG11	1:146:A:THR:H	4	0.38
(1,834)	1:181:A:ALA:HB3	1:175:A:PHE:HB3	1	0.38
(1,834)	1:181:A:ALA:HB3	1:175:A:PHE:HB3	7	0.38
(1,822)	1:169:A:VAL:HG13	1:156:A:ARG:H	3	0.38
(1,822)	1:169:A:VAL:HG11	1:156:A:ARG:H	6	0.38
(1,813)	1:140:A:THR:HG23	1:138:A:LYS:HG3	3	0.38
(1,813)	1:140:A:THR:HG22	1:138:A:LYS:HG3	5	0.38
(1,813)	1:140:A:THR:HG23	1:138:A:LYS:HG3	9	0.38
(1,813)	1:140:A:THR:HG22	1:138:A:LYS:HG3	17	0.38
(1,810)	1:174:A:THR:HG22	1:181:A:ALA:H	5	0.38
(1,810)	1:174:A:THR:HG23	1:181:A:ALA:H	17	0.38
(1,808)	1:136:A:VAL:HG21	1:140:A:THR:H	14	0.38
(1,799)	1:182:A:THR:HG23	1:194:A:PHE:HA	16	0.38
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG22	10	0.38
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG22	20	0.38
(1,795)	1:182:A:THR:HG21	1:193:A:GLY:HA3	3	0.38
(1,784)	1:184:A:VAL:HG23	1:184:A:VAL:HG12	5	0.38
(1,784)	1:184:A:VAL:HG21	1:184:A:VAL:HG13	10	0.38
(1,784)	1:184:A:VAL:HG21	1:184:A:VAL:HG12	15	0.38
(1,784)	1:184:A:VAL:HG22	1:184:A:VAL:HG12	17	0.38
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG21	17	0.38
(1,769)	1:128:A:LEU:HD22	1:124:A:MET:HA	6	0.38
(1,769)	1:128:A:LEU:HD22	1:124:A:MET:HA	10	0.38
(1,769)	1:128:A:LEU:HD22	1:124:A:MET:HA	19	0.38
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD23	12	0.38
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD21	14	0.38
(1,761)	1:147:A:VAL:HG23	1:135:A:GLN:H	17	0.38
(1,757)	1:171:A:ALA:HB3	1:192:A:PHE:HD1	3	0.38
(1,757)	1:171:A:ALA:HB2	1:192:A:PHE:HD1	13	0.38
(1,748)	1:180:A:LEU:HD12	1:119:A:ILE:HG13	10	0.38
(1,737)	1:171:A:ALA:HB3	1:192:A:PHE:HE1	3	0.38
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB2	7	0.38
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB1	13	0.38
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD21	2	0.38
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD23	4	0.38
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD23	5	0.38
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD21	11	0.38
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD22	18	0.38
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	9	0.38
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	14	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,686)	1:197:A:LEU:HD11	1:197:A:LEU:HA	14	0.38
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD23	8	0.38
(1,670)	1:173:A:LEU:HD11	1:175:A:PHE:HD1	19	0.38
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	5	0.38
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	20	0.38
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD11	7	0.38
(1,569)	1:170:A:ARG:HG3	1:170:A:ARG:HB2	14	0.38
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	3	0.38
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	4	0.38
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	6	0.38
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	9	0.38
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	17	0.38
(1,456)	1:129:A:GLU:HG3	1:134:A:ARG:HA	5	0.38
(1,446)	1:128:A:LEU:H	1:129:A:GLU:HG2	6	0.38
(1,446)	1:128:A:LEU:H	1:129:A:GLU:HG2	7	0.38
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	9	0.38
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	10	0.38
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	15	0.38
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	3	0.38
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB3	15	0.38
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG22	3	0.38
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	12	0.38
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG22	10	0.38
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	13	0.38
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	18	0.38
(1,173)	1:186:A:MET:HA	1:186:A:MET:HG3	18	0.38
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	4	0.38
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	20	0.38
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG13	4	0.38
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	4	0.38
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	11	0.38
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD11	6	0.38
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG21	19	0.38
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG22	4	0.38
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG23	7	0.38
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG21	9	0.38
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG22	11	0.38
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG22	18	0.38
(1,24)	1:174:A:THR:HB	1:180:A:LEU:HD11	14	0.38
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	8	0.38
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG23	3	0.38
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG22	5	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG23	12	0.38
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG22	13	0.38
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG22	14	0.38
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG23	18	0.38
(2,284)	1:147:A:VAL:HG21	1:152:A:ILE:HD13	1	0.37
(2,284)	1:147:A:VAL:HG23	1:152:A:ILE:HD13	10	0.37
(2,264)	1:147:A:VAL:HG21	1:152:A:ILE:HG21	6	0.37
(2,264)	1:147:A:VAL:HG23	1:152:A:ILE:HG21	19	0.37
(2,260)	1:125:A:VAL:HG21	1:128:A:LEU:HD11	1	0.37
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	2	0.37
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	12	0.37
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	18	0.37
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD12	8	0.37
(2,225)	1:173:A:LEU:HD22	1:173:A:LEU:H	10	0.37
(2,225)	1:173:A:LEU:HD22	1:173:A:LEU:H	19	0.37
(2,176)	1:114:A:GLU:HB2	1:183:A:ILE:HD13	17	0.37
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	9	0.37
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	14	0.37
(2,134)	1:166:A:GLU:HG3	1:159:A:PHE:HD2	12	0.37
(2,123)	1:123:A:GLU:HG2	1:119:A:ILE:HA	13	0.37
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	12	0.37
(2,112)	1:122:A:ASN:HB3	1:124:A:MET:H	7	0.37
(2,112)	1:122:A:ASN:HB3	1:124:A:MET:H	17	0.37
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	4	0.37
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	20	0.37
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB2	9	0.37
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB2	14	0.37
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	13	0.37
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	7	0.37
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	20	0.37
(2,46)	1:153:A:GLU:HA	1:186:A:MET:HG3	4	0.37
(2,46)	1:153:A:GLU:HA	1:186:A:MET:HG3	18	0.37
(2,18)	1:129:A:GLU:HA	1:134:A:ARG:HB3	3	0.37
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD1	9	0.37
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD12	14	0.37
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	8	0.37
(1,1124)	1:123:A:GLU:H	1:123:A:GLU:HB3	10	0.37
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD22	11	0.37
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD23	13	0.37
(1,931)	1:119:A:ILE:HD12	1:180:A:LEU:HA	5	0.37
(1,931)	1:119:A:ILE:HD11	1:180:A:LEU:HA	15	0.37
(1,931)	1:119:A:ILE:HD12	1:180:A:LEU:HA	16	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,931)	1:119:A:ILE:HD11	1:180:A:LEU:HA	20	0.37
(1,930)	1:119:A:ILE:HD11	1:175:A:PHE:HA	12	0.37
(1,930)	1:119:A:ILE:HD12	1:175:A:PHE:HA	13	0.37
(1,923)	1:183:A:ILE:HD11	1:114:A:GLU:H	5	0.37
(1,914)	1:183:A:ILE:HD12	1:182:A:THR:H	4	0.37
(1,914)	1:183:A:ILE:HD12	1:182:A:THR:H	11	0.37
(1,912)	1:152:A:ILE:HD11	1:173:A:LEU:HD21	1	0.37
(1,912)	1:152:A:ILE:HD12	1:173:A:LEU:HD21	14	0.37
(1,912)	1:152:A:ILE:HD12	1:173:A:LEU:HD21	19	0.37
(1,902)	1:152:A:ILE:HD13	1:133:A:TYR:HD2	12	0.37
(1,902)	1:152:A:ILE:HD13	1:133:A:TYR:HD2	15	0.37
(1,899)	1:119:A:ILE:HG22	1:180:A:LEU:HD12	4	0.37
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG22	12	0.37
(1,874)	1:183:A:ILE:HG21	1:113:A:LEU:HD21	2	0.37
(1,874)	1:183:A:ILE:HG23	1:113:A:LEU:HD21	3	0.37
(1,870)	1:183:A:ILE:HG22	1:172:A:ARG:H	13	0.37
(1,857)	1:130:A:ALA:HB1	1:127:A:LEU:HD22	12	0.37
(1,850)	1:183:A:ILE:HG21	1:114:A:GLU:H	13	0.37
(1,848)	1:155:A:ILE:HG21	1:145:A:PHE:HD1	3	0.37
(1,834)	1:181:A:ALA:HB3	1:175:A:PHE:HB3	3	0.37
(1,834)	1:181:A:ALA:HB2	1:175:A:PHE:HB3	10	0.37
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG12	7	0.37
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG11	9	0.37
(1,822)	1:169:A:VAL:HG12	1:156:A:ARG:H	13	0.37
(1,822)	1:169:A:VAL:HG12	1:156:A:ARG:H	18	0.37
(1,810)	1:174:A:THR:HG23	1:181:A:ALA:H	8	0.37
(1,810)	1:174:A:THR:HG22	1:181:A:ALA:H	11	0.37
(1,810)	1:174:A:THR:HG22	1:181:A:ALA:H	12	0.37
(1,810)	1:174:A:THR:HG22	1:181:A:ALA:H	20	0.37
(1,799)	1:182:A:THR:HG22	1:194:A:PHE:HA	1	0.37
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG22	8	0.37
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG23	9	0.37
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG21	12	0.37
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG22	17	0.37
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG21	8	0.37
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG23	13	0.37
(1,784)	1:184:A:VAL:HG23	1:184:A:VAL:HG11	19	0.37
(1,772)	1:127:A:LEU:HB2	1:128:A:LEU:HD22	8	0.37
(1,769)	1:128:A:LEU:HD23	1:124:A:MET:HA	9	0.37
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD22	10	0.37
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD21	16	0.37
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD22	5	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,761)	1:147:A:VAL:HG23	1:135:A:GLN:H	4	0.37
(1,757)	1:171:A:ALA:HB3	1:192:A:PHE:HD1	6	0.37
(1,757)	1:171:A:ALA:HB2	1:192:A:PHE:HD1	9	0.37
(1,757)	1:171:A:ALA:HB3	1:192:A:PHE:HD1	17	0.37
(1,757)	1:171:A:ALA:HB2	1:192:A:PHE:HD1	18	0.37
(1,737)	1:171:A:ALA:HB3	1:192:A:PHE:HE1	14	0.37
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB3	4	0.37
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB3	19	0.37
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD21	3	0.37
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD22	9	0.37
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	7	0.37
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	8	0.37
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	18	0.37
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD22	17	0.37
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD22	19	0.37
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD11	6	0.37
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD12	11	0.37
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	10	0.37
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD11	2	0.37
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD12	3	0.37
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD11	9	0.37
(1,572)	1:153:A:GLU:HB3	1:139:A:MET:HG3	15	0.37
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD11	7	0.37
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	11	0.37
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	1	0.37
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	2	0.37
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	7	0.37
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	11	0.37
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	12	0.37
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	15	0.37
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	18	0.37
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	20	0.37
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG22	12	0.37
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG22	15	0.37
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	7	0.37
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	4	0.37
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	7	0.37
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	16	0.37
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	8	0.37
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	7	0.37
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB3	7	0.37
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG23	17	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	4	0.37
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	8	0.37
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	1	0.37
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	6	0.37
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	7	0.37
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	10	0.37
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	1	0.37
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	19	0.37
(1,137)	1:146:A:THR:HA	1:147:A:VAL:HB	14	0.37
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD11	4	0.37
(1,66)	1:158:A:PRO:HA	1:159:A:PHE:HD2	3	0.37
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG23	12	0.37
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG21	5	0.37
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG23	8	0.37
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	9	0.37
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG21	4	0.37
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG22	7	0.37
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG23	9	0.37
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG21	16	0.37
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG21	20	0.37
(1,12)	1:194:A:PHE:HD2	1:193:A:GLY:HA3	12	0.37
(2,264)	1:147:A:VAL:HG23	1:152:A:ILE:HG21	13	0.36
(2,260)	1:125:A:VAL:HG23	1:128:A:LEU:HD11	4	0.36
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	13	0.36
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD12	12	0.36
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD13	16	0.36
(2,228)	1:141:A:ARG:HD2	1:141:A:ARG:HG3	16	0.36
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	13	0.36
(2,190)	1:139:A:MET:HG2	1:139:A:MET:H	3	0.36
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG2	3	0.36
(2,176)	1:114:A:GLU:HB2	1:183:A:ILE:HD11	8	0.36
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	1	0.36
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	6	0.36
(2,138)	1:117:A:MET:HB2	1:113:A:LEU:HD22	15	0.36
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB2	5	0.36
(2,123)	1:123:A:GLU:HG3	1:119:A:ILE:HA	8	0.36
(2,123)	1:123:A:GLU:HG2	1:119:A:ILE:HA	14	0.36
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	10	0.36
(2,114)	1:122:A:ASN:HB3	1:125:A:VAL:HG13	13	0.36
(2,112)	1:122:A:ASN:HB3	1:124:A:MET:H	11	0.36
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	19	0.36
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	2	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	9	0.36
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	16	0.36
(2,97)	1:178:A:ASP:HB3	1:179:A:HIS:H	14	0.36
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	19	0.36
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	17	0.36
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	2	0.36
(1,1249)	1:151:A:SER:H	1:151:A:SER:HB2	15	0.36
(1,1248)	1:146:A:THR:H	1:152:A:ILE:HG22	3	0.36
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	19	0.36
(1,1200)	1:140:A:THR:H	1:155:A:ILE:HD12	19	0.36
(1,1193)	1:126:A:LYS:H	1:126:A:LYS:HG2	1	0.36
(1,1181)	1:154:A:MET:H	1:154:A:MET:HG3	19	0.36
(1,1167)	1:159:A:PHE:H	1:159:A:PHE:HB2	3	0.36
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD11	5	0.36
(1,946)	1:155:A:ILE:HD12	1:139:A:MET:HB3	10	0.36
(1,931)	1:119:A:ILE:HD11	1:180:A:LEU:HA	3	0.36
(1,930)	1:119:A:ILE:HD12	1:175:A:PHE:HA	11	0.36
(1,929)	1:119:A:ILE:HD11	1:123:A:GLU:H	1	0.36
(1,923)	1:183:A:ILE:HD13	1:114:A:GLU:H	6	0.36
(1,914)	1:183:A:ILE:HD12	1:182:A:THR:H	1	0.36
(1,912)	1:152:A:ILE:HD13	1:173:A:LEU:HD22	8	0.36
(1,908)	1:125:A:VAL:HA	1:152:A:ILE:HD12	10	0.36
(1,907)	1:152:A:ILE:HD11	1:124:A:MET:HA	12	0.36
(1,903)	1:152:A:ILE:HD12	1:175:A:PHE:HE1	4	0.36
(1,899)	1:119:A:ILE:HG22	1:180:A:LEU:HD11	17	0.36
(1,897)	1:119:A:ILE:HG21	1:127:A:LEU:HD12	4	0.36
(1,897)	1:119:A:ILE:HG21	1:127:A:LEU:HD11	11	0.36
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG23	9	0.36
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG21	15	0.36
(1,857)	1:130:A:ALA:HB3	1:127:A:LEU:HD22	1	0.36
(1,857)	1:130:A:ALA:HB3	1:127:A:LEU:HD21	3	0.36
(1,857)	1:130:A:ALA:HB2	1:127:A:LEU:HD22	18	0.36
(1,834)	1:181:A:ALA:HB3	1:175:A:PHE:HB3	15	0.36
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG12	19	0.36
(1,822)	1:169:A:VAL:HG11	1:156:A:ARG:H	12	0.36
(1,822)	1:169:A:VAL:HG12	1:156:A:ARG:H	16	0.36
(1,813)	1:140:A:THR:HG22	1:138:A:LYS:HG3	2	0.36
(1,813)	1:140:A:THR:HG21	1:138:A:LYS:HG3	16	0.36
(1,813)	1:140:A:THR:HG21	1:138:A:LYS:HG3	20	0.36
(1,799)	1:182:A:THR:HG22	1:194:A:PHE:HA	5	0.36
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG22	15	0.36
(1,793)	1:182:A:THR:HG21	1:194:A:PHE:H	12	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,784)	1:184:A:VAL:HG21	1:184:A:VAL:HG12	18	0.36
(1,769)	1:128:A:LEU:HD23	1:124:A:MET:HA	5	0.36
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD22	15	0.36
(1,761)	1:147:A:VAL:HG21	1:135:A:GLN:H	16	0.36
(1,757)	1:171:A:ALA:HB2	1:192:A:PHE:HD1	8	0.36
(1,748)	1:180:A:LEU:HD11	1:119:A:ILE:HG13	19	0.36
(1,730)	1:125:A:VAL:HG12	1:126:A:LYS:HB3	11	0.36
(1,730)	1:125:A:VAL:HG11	1:126:A:LYS:HB3	16	0.36
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD21	7	0.36
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD23	13	0.36
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD22	15	0.36
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD23	16	0.36
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD23	20	0.36
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD11	6	0.36
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD12	8	0.36
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	2	0.36
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	3	0.36
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	10	0.36
(1,686)	1:197:A:LEU:HD13	1:197:A:LEU:HA	13	0.36
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD23	13	0.36
(1,670)	1:173:A:LEU:HD12	1:175:A:PHE:HD1	9	0.36
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD11	7	0.36
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	4	0.36
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	10	0.36
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	5	0.36
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	18	0.36
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	1	0.36
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	13	0.36
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	1	0.36
(1,516)	1:139:A:MET:HB3	1:146:A:THR:HB	10	0.36
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	13	0.36
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	14	0.36
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	16	0.36
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	4	0.36
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	14	0.36
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	2	0.36
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	6	0.36
(1,345)	1:171:A:ALA:HA	1:169:A:VAL:HG13	10	0.36
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD12	2	0.36
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	6	0.36
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	14	0.36
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	18	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	16	0.36
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG23	7	0.36
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG21	17	0.36
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	8	0.36
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	13	0.36
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	12	0.36
(1,137)	1:146:A:THR:HA	1:147:A:VAL:HB	2	0.36
(1,137)	1:146:A:THR:HA	1:147:A:VAL:HB	5	0.36
(1,137)	1:146:A:THR:HA	1:147:A:VAL:HB	9	0.36
(1,137)	1:146:A:THR:HA	1:147:A:VAL:HB	15	0.36
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	8	0.36
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	20	0.36
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	11	0.36
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	15	0.36
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	15	0.36
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	10	0.36
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	13	0.36
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG23	1	0.36
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG21	3	0.36
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG23	13	0.36
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG23	17	0.36
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG23	20	0.36
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	4	0.36
(1,15)	1:140:A:THR:HB	1:140:A:THR:HG21	10	0.36
(1,6)	1:133:A:TYR:HD1	1:128:A:LEU:HG	2	0.36
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	1	0.35
(2,284)	1:147:A:VAL:HG21	1:152:A:ILE:HD13	17	0.35
(2,264)	1:147:A:VAL:HG23	1:152:A:ILE:HG21	8	0.35
(2,262)	1:113:A:LEU:HD11	1:180:A:LEU:HD13	6	0.35
(2,260)	1:125:A:VAL:HG22	1:128:A:LEU:HD12	12	0.35
(2,260)	1:125:A:VAL:HG21	1:128:A:LEU:HD12	20	0.35
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD21	6	0.35
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD22	9	0.35
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD23	20	0.35
(2,228)	1:141:A:ARG:HD2	1:141:A:ARG:HG3	12	0.35
(2,228)	1:141:A:ARG:HD2	1:141:A:ARG:HG3	14	0.35
(2,228)	1:141:A:ARG:HD2	1:141:A:ARG:HG3	20	0.35
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	3	0.35
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	6	0.35
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	10	0.35
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	17	0.35
(2,218)	1:162:A:PRO:HG2	1:161:A:PHE:HB2	19	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,192)	1:139:A:MET:HG2	1:140:A:THR:H	8	0.35
(2,188)	1:139:A:MET:HG2	1:146:A:THR:HA	16	0.35
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG2	2	0.35
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG3	6	0.35
(2,172)	1:110:A:MET:HB3	1:110:A:MET:H	18	0.35
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	3	0.35
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	16	0.35
(2,123)	1:123:A:GLU:HG2	1:119:A:ILE:HA	18	0.35
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	15	0.35
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	1	0.35
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB3	20	0.35
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	9	0.35
(2,74)	1:145:A:PHE:HB2	1:147:A:VAL:HG23	13	0.35
(2,61)	1:170:A:ARG:HD2	1:169:A:VAL:HG12	8	0.35
(2,61)	1:170:A:ARG:HD2	1:169:A:VAL:HG12	13	0.35
(2,61)	1:170:A:ARG:HD2	1:169:A:VAL:HG11	14	0.35
(2,61)	1:170:A:ARG:HD2	1:169:A:VAL:HG11	20	0.35
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	4	0.35
(2,17)	1:152:A:ILE:HA	1:147:A:VAL:HG23	8	0.35
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG22	8	0.35
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG23	11	0.35
(1,1181)	1:154:A:MET:H	1:154:A:MET:HG3	13	0.35
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG21	4	0.35
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG21	9	0.35
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD12	6	0.35
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD12	19	0.35
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG11	5	0.35
(1,931)	1:119:A:ILE:HD11	1:180:A:LEU:HA	8	0.35
(1,931)	1:119:A:ILE:HD12	1:180:A:LEU:HA	17	0.35
(1,930)	1:119:A:ILE:HD11	1:175:A:PHE:HA	3	0.35
(1,912)	1:152:A:ILE:HD13	1:173:A:LEU:HD21	9	0.35
(1,912)	1:152:A:ILE:HD11	1:173:A:LEU:HD21	10	0.35
(1,912)	1:152:A:ILE:HD11	1:173:A:LEU:HD23	12	0.35
(1,899)	1:119:A:ILE:HG22	1:180:A:LEU:HD13	11	0.35
(1,899)	1:119:A:ILE:HG22	1:180:A:LEU:HD12	18	0.35
(1,899)	1:119:A:ILE:HG23	1:180:A:LEU:HD11	19	0.35
(1,897)	1:119:A:ILE:HG21	1:127:A:LEU:HD11	2	0.35
(1,890)	1:119:A:ILE:HG21	1:175:A:PHE:HD1	15	0.35
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG21	5	0.35
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG23	11	0.35
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG22	17	0.35
(1,870)	1:183:A:ILE:HG22	1:172:A:ARG:H	6	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,857)	1:130:A:ALA:HB1	1:127:A:LEU:HD23	5	0.35
(1,857)	1:130:A:ALA:HB2	1:127:A:LEU:HD22	14	0.35
(1,857)	1:130:A:ALA:HB2	1:127:A:LEU:HD23	16	0.35
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG12	8	0.35
(1,822)	1:169:A:VAL:HG12	1:156:A:ARG:H	4	0.35
(1,822)	1:169:A:VAL:HG12	1:156:A:ARG:H	11	0.35
(1,813)	1:140:A:THR:HG22	1:138:A:LYS:HG3	1	0.35
(1,810)	1:174:A:THR:HG23	1:181:A:ALA:H	7	0.35
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG22	1	0.35
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG22	4	0.35
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG23	15	0.35
(1,769)	1:128:A:LEU:HD22	1:124:A:MET:HA	8	0.35
(1,761)	1:147:A:VAL:HG23	1:135:A:GLN:H	1	0.35
(1,748)	1:180:A:LEU:HD13	1:119:A:ILE:HG13	13	0.35
(1,730)	1:125:A:VAL:HG13	1:126:A:LYS:HB3	9	0.35
(1,730)	1:125:A:VAL:HG11	1:126:A:LYS:HB3	15	0.35
(1,730)	1:125:A:VAL:HG11	1:126:A:LYS:HB3	18	0.35
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD22	14	0.35
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD22	17	0.35
(1,712)	1:165:A:LYS:HG2	1:161:A:PHE:H	20	0.35
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD13	16	0.35
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD11	2	0.35
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD11	10	0.35
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD22	14	0.35
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	15	0.35
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	19	0.35
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD11	10	0.35
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	14	0.35
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	3	0.35
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	4	0.35
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	7	0.35
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	8	0.35
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	20	0.35
(1,511)	1:139:A:MET:HB3	1:146:A:THR:HG21	10	0.35
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	15	0.35
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	5	0.35
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	8	0.35
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	18	0.35
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	15	0.35
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	5	0.35
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	12	0.35
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	20	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	10	0.35
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	15	0.35
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	18	0.35
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	4	0.35
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB3	3	0.35
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB1	12	0.35
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB3	13	0.35
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG23	4	0.35
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG21	20	0.35
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	17	0.35
(1,187)	1:151:A:SER:HA	1:175:A:PHE:HB3	16	0.35
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	2	0.35
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	5	0.35
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	13	0.35
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	14	0.35
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	18	0.35
(1,137)	1:146:A:THR:HA	1:147:A:VAL:HB	4	0.35
(1,137)	1:146:A:THR:HA	1:147:A:VAL:HB	10	0.35
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	9	0.35
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	18	0.35
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG11	8	0.35
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG11	14	0.35
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	7	0.35
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	13	0.35
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD12	13	0.35
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG22	10	0.35
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG23	10	0.35
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG22	14	0.35
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG23	15	0.35
(1,39)	1:118:A:THR:HB	1:118:A:THR:HG22	19	0.35
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	5	0.35
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	16	0.35
(2,284)	1:147:A:VAL:HG23	1:152:A:ILE:HD12	20	0.34
(2,274)	1:140:A:THR:HG22	1:138:A:LYS:HE2	17	0.34
(2,267)	1:113:A:LEU:HD22	1:117:A:MET:HB3	2	0.34
(2,260)	1:125:A:VAL:HG22	1:128:A:LEU:HD11	14	0.34
(2,260)	1:125:A:VAL:HG21	1:128:A:LEU:HD11	17	0.34
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD22	1	0.34
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD21	2	0.34
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD23	4	0.34
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD21	7	0.34
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD22	10	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD21	11	0.34
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD23	13	0.34
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD22	15	0.34
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD23	16	0.34
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD22	17	0.34
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD11	5	0.34
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD11	17	0.34
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD12	20	0.34
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	19	0.34
(2,228)	1:141:A:ARG:HD2	1:141:A:ARG:HG3	2	0.34
(2,225)	1:173:A:LEU:HD21	1:173:A:LEU:H	7	0.34
(2,225)	1:173:A:LEU:HD23	1:173:A:LEU:H	8	0.34
(2,223)	1:173:A:LEU:HD21	1:152:A:ILE:H	7	0.34
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	5	0.34
(2,192)	1:139:A:MET:HG2	1:140:A:THR:H	5	0.34
(2,192)	1:139:A:MET:HG2	1:140:A:THR:H	9	0.34
(2,192)	1:139:A:MET:HG2	1:140:A:THR:H	14	0.34
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	17	0.34
(2,156)	1:168:A:GLN:HG3	1:155:A:ILE:HD13	9	0.34
(2,152)	1:168:A:GLN:HG3	1:155:A:ILE:HG22	20	0.34
(2,141)	1:138:A:LYS:HB2	1:139:A:MET:H	12	0.34
(2,134)	1:166:A:GLU:HG3	1:159:A:PHE:HD1	13	0.34
(2,123)	1:123:A:GLU:HG2	1:119:A:ILE:HA	4	0.34
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	13	0.34
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	18	0.34
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	7	0.34
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB3	10	0.34
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	4	0.34
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	18	0.34
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	14	0.34
(2,65)	1:170:A:ARG:HD3	1:170:A:ARG:HB3	19	0.34
(2,62)	1:170:A:ARG:HD2	1:187:A:GLU:HG3	19	0.34
(2,46)	1:153:A:GLU:HA	1:186:A:MET:HG3	6	0.34
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	9	0.34
(2,33)	1:165:A:LYS:HA	1:165:A:LYS:HD3	16	0.34
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	4	0.34
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	18	0.34
(1,1200)	1:140:A:THR:H	1:155:A:ILE:HD13	15	0.34
(1,1135)	1:152:A:ILE:H	1:175:A:PHE:HD2	15	0.34
(1,1023)	1:121:A:LYS:H	1:121:A:LYS:HB3	2	0.34
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD13	16	0.34
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG22	10	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	6	0.34
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG11	7	0.34
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG12	14	0.34
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG13	18	0.34
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD22	4	0.34
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD23	5	0.34
(1,931)	1:119:A:ILE:HD11	1:180:A:LEU:HA	2	0.34
(1,930)	1:119:A:ILE:HD11	1:175:A:PHE:HA	4	0.34
(1,930)	1:119:A:ILE:HD12	1:175:A:PHE:HA	9	0.34
(1,914)	1:183:A:ILE:HD12	1:182:A:THR:H	8	0.34
(1,914)	1:183:A:ILE:HD13	1:182:A:THR:H	9	0.34
(1,914)	1:183:A:ILE:HD13	1:182:A:THR:H	16	0.34
(1,907)	1:152:A:ILE:HD11	1:124:A:MET:HA	18	0.34
(1,903)	1:152:A:ILE:HD11	1:175:A:PHE:HE1	7	0.34
(1,899)	1:119:A:ILE:HG21	1:180:A:LEU:HD12	10	0.34
(1,899)	1:119:A:ILE:HG23	1:180:A:LEU:HD11	20	0.34
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG23	16	0.34
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG22	20	0.34
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG23	13	0.34
(1,857)	1:130:A:ALA:HB1	1:127:A:LEU:HD23	4	0.34
(1,857)	1:130:A:ALA:HB3	1:127:A:LEU:HD22	15	0.34
(1,857)	1:130:A:ALA:HB2	1:127:A:LEU:HD23	20	0.34
(1,837)	1:181:A:ALA:HB3	1:175:A:PHE:HA	4	0.34
(1,837)	1:181:A:ALA:HB3	1:175:A:PHE:HA	13	0.34
(1,837)	1:181:A:ALA:HB3	1:175:A:PHE:HA	17	0.34
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG11	15	0.34
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG11	2	0.34
(1,822)	1:169:A:VAL:HG11	1:156:A:ARG:H	2	0.34
(1,822)	1:169:A:VAL:HG13	1:156:A:ARG:H	5	0.34
(1,813)	1:140:A:THR:HG22	1:138:A:LYS:HG3	13	0.34
(1,813)	1:140:A:THR:HG22	1:138:A:LYS:HG3	14	0.34
(1,810)	1:174:A:THR:HG23	1:181:A:ALA:H	15	0.34
(1,810)	1:174:A:THR:HG23	1:181:A:ALA:H	19	0.34
(1,788)	1:139:A:MET:HB2	1:146:A:THR:HG21	2	0.34
(1,788)	1:139:A:MET:HB2	1:146:A:THR:HG21	12	0.34
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG23	7	0.34
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG22	5	0.34
(1,769)	1:128:A:LEU:HD23	1:124:A:MET:HA	3	0.34
(1,769)	1:128:A:LEU:HD23	1:124:A:MET:HA	4	0.34
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD21	17	0.34
(1,757)	1:171:A:ALA:HB2	1:192:A:PHE:HD1	2	0.34
(1,757)	1:171:A:ALA:HB2	1:192:A:PHE:HD1	12	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB1	11	0.34
(1,730)	1:125:A:VAL:HG12	1:126:A:LYS:HB3	10	0.34
(1,730)	1:125:A:VAL:HG11	1:126:A:LYS:HB3	17	0.34
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD21	6	0.34
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD22	12	0.34
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD11	3	0.34
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD12	12	0.34
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD11	17	0.34
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD12	18	0.34
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD12	20	0.34
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	5	0.34
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	6	0.34
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	15	0.34
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD12	1	0.34
(1,680)	1:140:A:THR:H	1:141:A:ARG:HG3	8	0.34
(1,670)	1:173:A:LEU:HD12	1:175:A:PHE:HD1	12	0.34
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG22	12	0.34
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	7	0.34
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	11	0.34
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	1	0.34
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD13	13	0.34
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	17	0.34
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD13	6	0.34
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	3	0.34
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	6	0.34
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	10	0.34
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	11	0.34
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	16	0.34
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	17	0.34
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	18	0.34
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	2	0.34
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	8	0.34
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	12	0.34
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	13	0.34
(1,463)	1:187:A:GLU:HG3	1:187:A:GLU:HB3	10	0.34
(1,451)	1:129:A:GLU:HA	1:129:A:GLU:HG3	3	0.34
(1,425)	1:183:A:ILE:HB	1:182:A:THR:HG23	10	0.34
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	6	0.34
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	13	0.34
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	2	0.34
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	20	0.34
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	16	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	3	0.34
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	5	0.34
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	9	0.34
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	12	0.34
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	13	0.34
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	15	0.34
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	16	0.34
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG22	17	0.34
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB2	10	0.34
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB1	14	0.34
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	12	0.34
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	17	0.34
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	14	0.34
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	4	0.34
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	10	0.34
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	20	0.34
(1,137)	1:146:A:THR:HA	1:147:A:VAL:HB	12	0.34
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	6	0.34
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	1	0.34
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	4	0.34
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	14	0.34
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	12	0.34
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	1	0.34
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	3	0.34
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	5	0.34
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	10	0.34
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	14	0.34
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	19	0.34
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD12	12	0.34
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	18	0.34
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG21	8	0.34
(1,6)	1:133:A:TYR:HD1	1:128:A:LEU:HG	5	0.34
(2,260)	1:125:A:VAL:HG23	1:128:A:LEU:HD13	18	0.33
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD21	3	0.33
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD23	5	0.33
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD21	8	0.33
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD22	12	0.33
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD22	14	0.33
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD22	19	0.33
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD11	6	0.33
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD12	14	0.33
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	13	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,228)	1:141:A:ARG:HD2	1:141:A:ARG:HG3	5	0.33
(2,228)	1:141:A:ARG:HD2	1:141:A:ARG:HG3	9	0.33
(2,228)	1:141:A:ARG:HD2	1:141:A:ARG:HG3	17	0.33
(2,228)	1:141:A:ARG:HD2	1:141:A:ARG:HG3	19	0.33
(2,223)	1:173:A:LEU:HD22	1:152:A:ILE:H	9	0.33
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	2	0.33
(2,199)	1:154:A:MET:HG2	1:171:A:ALA:H	19	0.33
(2,192)	1:139:A:MET:HG2	1:140:A:THR:H	6	0.33
(2,188)	1:139:A:MET:HG2	1:146:A:THR:HA	13	0.33
(2,123)	1:123:A:GLU:HG2	1:119:A:ILE:HA	6	0.33
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB3	2	0.33
(2,88)	1:165:A:LYS:HE3	1:164:A:SER:H	8	0.33
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	16	0.33
(2,51)	1:141:A:ARG:HA	1:141:A:ARG:HG2	3	0.33
(2,46)	1:153:A:GLU:HA	1:186:A:MET:HG3	17	0.33
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	5	0.33
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	18	0.33
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	1	0.33
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	16	0.33
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG23	5	0.33
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG21	10	0.33
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	4	0.33
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	15	0.33
(1,1200)	1:140:A:THR:H	1:155:A:ILE:HD12	20	0.33
(1,1181)	1:154:A:MET:H	1:154:A:MET:HG3	2	0.33
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG21	20	0.33
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG22	8	0.33
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG23	18	0.33
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG21	20	0.33
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD13	1	0.33
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD12	7	0.33
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD11	13	0.33
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG11	4	0.33
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	8	0.33
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD23	10	0.33
(1,937)	1:119:A:ILE:HD13	1:180:A:LEU:HD23	16	0.33
(1,931)	1:119:A:ILE:HD11	1:180:A:LEU:HA	12	0.33
(1,923)	1:183:A:ILE:HD13	1:114:A:GLU:H	19	0.33
(1,912)	1:152:A:ILE:HD11	1:173:A:LEU:HD23	3	0.33
(1,912)	1:152:A:ILE:HD11	1:173:A:LEU:HD21	17	0.33
(1,907)	1:152:A:ILE:HD12	1:124:A:MET:HA	13	0.33
(1,902)	1:152:A:ILE:HD11	1:133:A:TYR:HD2	2	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,899)	1:119:A:ILE:HG21	1:180:A:LEU:HD12	1	0.33
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG21	15	0.33
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG22	1	0.33
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG21	10	0.33
(1,857)	1:130:A:ALA:HB3	1:127:A:LEU:HD23	13	0.33
(1,848)	1:155:A:ILE:HG23	1:145:A:PHE:HD1	1	0.33
(1,837)	1:181:A:ALA:HB2	1:175:A:PHE:HA	11	0.33
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG11	1	0.33
(1,822)	1:169:A:VAL:HG12	1:156:A:ARG:H	8	0.33
(1,813)	1:140:A:THR:HG21	1:138:A:LYS:HG3	6	0.33
(1,811)	1:169:A:VAL:HG21	1:169:A:VAL:H	1	0.33
(1,807)	1:136:A:VAL:HG22	1:136:A:VAL:HG11	2	0.33
(1,807)	1:136:A:VAL:HG23	1:136:A:VAL:HG12	16	0.33
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG23	5	0.33
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG21	18	0.33
(1,803)	1:136:A:VAL:HG22	1:134:A:ARG:H	15	0.33
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG21	15	0.33
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG22	18	0.33
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG21	19	0.33
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG23	20	0.33
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD22	19	0.33
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD22	13	0.33
(1,747)	1:180:A:LEU:HD12	1:180:A:LEU:HD21	5	0.33
(1,747)	1:180:A:LEU:HD13	1:180:A:LEU:HD21	15	0.33
(1,747)	1:180:A:LEU:HD11	1:180:A:LEU:HD22	18	0.33
(1,747)	1:180:A:LEU:HD13	1:180:A:LEU:HD23	19	0.33
(1,737)	1:171:A:ALA:HB2	1:192:A:PHE:HE1	11	0.33
(1,730)	1:125:A:VAL:HG12	1:126:A:LYS:HB3	2	0.33
(1,730)	1:125:A:VAL:HG12	1:126:A:LYS:HB3	4	0.33
(1,730)	1:125:A:VAL:HG13	1:126:A:LYS:HB3	6	0.33
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD22	1	0.33
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD22	19	0.33
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD11	5	0.33
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD11	7	0.33
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD12	11	0.33
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD11	15	0.33
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	11	0.33
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	12	0.33
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	19	0.33
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD13	9	0.33
(1,639)	1:170:A:ARG:HG3	1:169:A:VAL:HG12	10	0.33
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	8	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	12	0.33
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	2	0.33
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	8	0.33
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	13	0.33
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	19	0.33
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	19	0.33
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD11	1	0.33
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD11	5	0.33
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	2	0.33
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	5	0.33
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD11	9	0.33
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD12	12	0.33
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD11	20	0.33
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	9	0.33
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	1	0.33
(1,451)	1:129:A:GLU:HA	1:129:A:GLU:HG3	17	0.33
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	19	0.33
(1,418)	1:119:A:ILE:HB	1:127:A:LEU:HD11	14	0.33
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	2	0.33
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	10	0.33
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	11	0.33
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	15	0.33
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	3	0.33
(1,360)	1:167:A:GLY:HA2	1:158:A:PRO:HA	19	0.33
(1,341)	1:171:A:ALA:HA	1:170:A:ARG:HB3	19	0.33
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	7	0.33
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	3	0.33
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	19	0.33
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	1	0.33
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	2	0.33
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	10	0.33
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	11	0.33
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	17	0.33
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	20	0.33
(1,278)	1:153:A:GLU:HA	1:172:A:ARG:HB3	10	0.33
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG22	11	0.33
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB3	1	0.33
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB2	2	0.33
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB2	6	0.33
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB1	8	0.33
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG23	5	0.33
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG23	11	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	12	0.33
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	3	0.33
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	9	0.33
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	11	0.33
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	17	0.33
(1,137)	1:146:A:THR:HA	1:147:A:VAL:HB	1	0.33
(1,137)	1:146:A:THR:HA	1:147:A:VAL:HB	16	0.33
(1,137)	1:146:A:THR:HA	1:147:A:VAL:HB	18	0.33
(1,137)	1:146:A:THR:HA	1:147:A:VAL:HB	20	0.33
(1,118)	1:137:A:SER:HA	1:136:A:VAL:HG13	10	0.33
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	5	0.33
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	8	0.33
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	12	0.33
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	17	0.33
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	19	0.33
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	2	0.33
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	11	0.33
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	12	0.33
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	16	0.33
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	17	0.33
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	20	0.33
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	7	0.33
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	1	0.33
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	6	0.33
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG23	2	0.33
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG22	9	0.33
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	19	0.32
(2,260)	1:125:A:VAL:HG21	1:128:A:LEU:HD11	11	0.32
(2,257)	1:127:A:LEU:HG	1:127:A:LEU:HD22	18	0.32
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	8	0.32
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD12	2	0.32
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD12	11	0.32
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	11	0.32
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	20	0.32
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	3	0.32
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	4	0.32
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	20	0.32
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	6	0.32
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	10	0.32
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE3	19	0.32
(2,188)	1:139:A:MET:HG2	1:146:A:THR:HA	17	0.32
(2,172)	1:110:A:MET:HB3	1:110:A:MET:H	2	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,172)	1:110:A:MET:HB3	1:110:A:MET:H	9	0.32
(2,172)	1:110:A:MET:HB3	1:110:A:MET:H	14	0.32
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	18	0.32
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	20	0.32
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	15	0.32
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB2	15	0.32
(2,123)	1:123:A:GLU:HG2	1:119:A:ILE:HA	7	0.32
(2,119)	1:123:A:GLU:HG2	1:126:A:LYS:HG2	1	0.32
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	11	0.32
(2,115)	1:122:A:ASN:HB3	1:126:A:LYS:H	14	0.32
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB3	7	0.32
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB3	10	0.32
(2,93)	1:163:A:ASP:HB3	1:161:A:PHE:HD2	11	0.32
(2,88)	1:165:A:LYS:HE3	1:164:A:SER:H	6	0.32
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	5	0.32
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	8	0.32
(2,66)	1:170:A:ARG:HD3	1:187:A:GLU:H	1	0.32
(2,64)	1:170:A:ARG:HD3	1:186:A:MET:HG2	1	0.32
(2,61)	1:170:A:ARG:HD2	1:169:A:VAL:HG12	11	0.32
(2,61)	1:170:A:ARG:HD2	1:169:A:VAL:HG13	17	0.32
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	7	0.32
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	10	0.32
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	11	0.32
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	13	0.32
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	15	0.32
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	16	0.32
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD12	4	0.32
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD12	18	0.32
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	7	0.32
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	9	0.32
(2,3)	1:140:A:THR:HB	1:139:A:MET:HG2	10	0.32
(2,2)	1:140:A:THR:HB	1:138:A:LYS:HE2	8	0.32
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	9	0.32
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	2	0.32
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	9	0.32
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	17	0.32
(1,1176)	1:114:A:GLU:H	1:114:A:GLU:HB2	13	0.32
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB3	8	0.32
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG21	1	0.32
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG21	5	0.32
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG23	11	0.32
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG21	13	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD12	10	0.32
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	4	0.32
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	4	0.32
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	9	0.32
(1,931)	1:119:A:ILE:HD12	1:180:A:LEU:HA	9	0.32
(1,931)	1:119:A:ILE:HD13	1:180:A:LEU:HA	19	0.32
(1,930)	1:119:A:ILE:HD11	1:175:A:PHE:HA	2	0.32
(1,930)	1:119:A:ILE:HD11	1:175:A:PHE:HA	20	0.32
(1,914)	1:183:A:ILE:HD11	1:182:A:THR:H	6	0.32
(1,914)	1:183:A:ILE:HD13	1:182:A:THR:H	7	0.32
(1,914)	1:183:A:ILE:HD12	1:182:A:THR:H	20	0.32
(1,902)	1:152:A:ILE:HD11	1:133:A:TYR:HD2	6	0.32
(1,899)	1:119:A:ILE:HG21	1:180:A:LEU:HD11	6	0.32
(1,898)	1:119:A:ILE:HG23	1:119:A:ILE:HD13	16	0.32
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG22	18	0.32
(1,857)	1:130:A:ALA:HB2	1:127:A:LEU:HD21	7	0.32
(1,857)	1:130:A:ALA:HB3	1:127:A:LEU:HD21	11	0.32
(1,857)	1:130:A:ALA:HB2	1:127:A:LEU:HD22	17	0.32
(1,837)	1:181:A:ALA:HB2	1:175:A:PHE:HA	5	0.32
(1,837)	1:181:A:ALA:HB1	1:175:A:PHE:HA	8	0.32
(1,837)	1:181:A:ALA:HB3	1:175:A:PHE:HA	16	0.32
(1,837)	1:181:A:ALA:HB2	1:175:A:PHE:HA	20	0.32
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG11	11	0.32
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG13	18	0.32
(1,822)	1:169:A:VAL:HG13	1:156:A:ARG:H	17	0.32
(1,813)	1:140:A:THR:HG22	1:138:A:LYS:HG3	7	0.32
(1,807)	1:136:A:VAL:HG23	1:136:A:VAL:HG12	3	0.32
(1,807)	1:136:A:VAL:HG21	1:136:A:VAL:HG12	10	0.32
(1,807)	1:136:A:VAL:HG23	1:136:A:VAL:HG12	11	0.32
(1,800)	1:182:A:THR:HG23	1:181:A:ALA:HB2	9	0.32
(1,797)	1:179:A:HIS:H	1:118:A:THR:HG21	16	0.32
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG22	17	0.32
(1,769)	1:128:A:LEU:HD23	1:124:A:MET:HA	20	0.32
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD22	1	0.32
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD22	8	0.32
(1,757)	1:171:A:ALA:HB2	1:192:A:PHE:HD1	11	0.32
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG23	3	0.32
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG23	18	0.32
(1,748)	1:180:A:LEU:HD12	1:119:A:ILE:HG13	8	0.32
(1,748)	1:180:A:LEU:HD12	1:119:A:ILE:HG13	18	0.32
(1,747)	1:180:A:LEU:HD11	1:180:A:LEU:HD21	10	0.32
(1,747)	1:180:A:LEU:HD12	1:180:A:LEU:HD21	13	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,730)	1:125:A:VAL:HG12	1:126:A:LYS:HB3	3	0.32
(1,730)	1:125:A:VAL:HG12	1:126:A:LYS:HB3	5	0.32
(1,730)	1:125:A:VAL:HG12	1:126:A:LYS:HB3	8	0.32
(1,730)	1:125:A:VAL:HG12	1:126:A:LYS:HB3	13	0.32
(1,730)	1:125:A:VAL:HG13	1:126:A:LYS:HB3	14	0.32
(1,730)	1:125:A:VAL:HG13	1:126:A:LYS:HB3	20	0.32
(1,712)	1:165:A:LYS:HG2	1:161:A:PHE:H	7	0.32
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD13	4	0.32
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD13	13	0.32
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD13	19	0.32
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	17	0.32
(1,689)	1:197:A:LEU:HD13	1:174:A:THR:HA	14	0.32
(1,686)	1:197:A:LEU:HD11	1:197:A:LEU:HA	17	0.32
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD21	7	0.32
(1,672)	1:173:A:LEU:HD13	1:183:A:ILE:HD12	19	0.32
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD13	4	0.32
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD13	6	0.32
(1,628)	1:126:A:LYS:HD2	1:124:A:MET:H	6	0.32
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD12	13	0.32
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD13	15	0.32
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD11	3	0.32
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	20	0.32
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	3	0.32
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD13	4	0.32
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	9	0.32
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	15	0.32
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	19	0.32
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD12	8	0.32
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	12	0.32
(1,451)	1:129:A:GLU:HA	1:129:A:GLU:HG3	4	0.32
(1,451)	1:129:A:GLU:HA	1:129:A:GLU:HG3	11	0.32
(1,440)	1:185:A:ASN:HB3	1:169:A:VAL:HG12	15	0.32
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	2	0.32
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	12	0.32
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	17	0.32
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	12	0.32
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	4	0.32
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	17	0.32
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	12	0.32
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	14	0.32
(1,376)	1:145:A:PHE:HB3	1:146:A:THR:HA	7	0.32
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	6	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG21	1	0.32
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD11	5	0.32
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	6	0.32
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	8	0.32
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB3	9	0.32
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB3	16	0.32
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB1	19	0.32
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	7	0.32
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG21	19	0.32
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	4	0.32
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	15	0.32
(1,203)	1:145:A:PHE:HA	1:133:A:TYR:HD1	16	0.32
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	6	0.32
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	7	0.32
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	12	0.32
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	16	0.32
(1,137)	1:146:A:THR:HA	1:147:A:VAL:HB	11	0.32
(1,137)	1:146:A:THR:HA	1:147:A:VAL:HB	17	0.32
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	11	0.32
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	12	0.32
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	2	0.32
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	1	0.32
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	7	0.32
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	18	0.32
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	20	0.32
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	13	0.32
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	16	0.32
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	17	0.32
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	4	0.32
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	8	0.32
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	9	0.32
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	18	0.32
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD13	2	0.32
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD13	14	0.32
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	2	0.32
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	19	0.32
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	19	0.32
(1,6)	1:133:A:TYR:HD1	1:128:A:LEU:HG	4	0.32
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	9	0.31
(2,285)	1:172:A:ARG:HB2	1:186:A:MET:HG3	14	0.31
(2,260)	1:125:A:VAL:HG22	1:128:A:LEU:HD11	5	0.31
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD13	4	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD11	7	0.31
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD11	15	0.31
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	18	0.31
(2,230)	1:141:A:ARG:HG2	1:144:A:GLU:H	8	0.31
(2,228)	1:141:A:ARG:HD2	1:141:A:ARG:HG3	8	0.31
(2,228)	1:141:A:ARG:HD2	1:141:A:ARG:HG3	18	0.31
(2,223)	1:173:A:LEU:HD23	1:152:A:ILE:H	4	0.31
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	4	0.31
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	5	0.31
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	8	0.31
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	13	0.31
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	16	0.31
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	19	0.31
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	2	0.31
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	7	0.31
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	1	0.31
(2,192)	1:139:A:MET:HG2	1:140:A:THR:H	3	0.31
(2,192)	1:139:A:MET:HG2	1:140:A:THR:H	4	0.31
(2,190)	1:139:A:MET:HG2	1:139:A:MET:H	2	0.31
(2,172)	1:110:A:MET:HB3	1:110:A:MET:H	10	0.31
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	3	0.31
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	20	0.31
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB3	10	0.31
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB2	16	0.31
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB3	17	0.31
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	1	0.31
(2,123)	1:123:A:GLU:HG2	1:119:A:ILE:HA	15	0.31
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	2	0.31
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	4	0.31
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	7	0.31
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	15	0.31
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	1	0.31
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	11	0.31
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB3	15	0.31
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	10	0.31
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	8	0.31
(2,51)	1:141:A:ARG:HA	1:141:A:ARG:HG2	9	0.31
(2,51)	1:141:A:ARG:HA	1:141:A:ARG:HG2	20	0.31
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	3	0.31
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB3	13	0.31
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	1	0.31
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	8	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,2)	1:140:A:THR:HB	1:138:A:LYS:HE2	17	0.31
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG21	14	0.31
(1,1257)	1:143:A:GLY:H	1:142:A:PRO:HB2	8	0.31
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	12	0.31
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	6	0.31
(1,1181)	1:154:A:MET:H	1:154:A:MET:HG3	20	0.31
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD2	5	0.31
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD13	6	0.31
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB2	19	0.31
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG23	4	0.31
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG23	17	0.31
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG22	19	0.31
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD11	14	0.31
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD12	20	0.31
(1,1023)	1:121:A:LYS:H	1:121:A:LYS:HB3	5	0.31
(1,1023)	1:121:A:LYS:H	1:121:A:LYS:HB3	8	0.31
(1,1023)	1:121:A:LYS:H	1:121:A:LYS:HB3	14	0.31
(1,1023)	1:121:A:LYS:H	1:121:A:LYS:HB3	15	0.31
(1,1023)	1:121:A:LYS:H	1:121:A:LYS:HB3	17	0.31
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD11	3	0.31
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD11	9	0.31
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG21	9	0.31
(1,977)	1:135:A:GLN:H	1:134:A:ARG:HB2	18	0.31
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD22	19	0.31
(1,932)	1:119:A:ILE:HD12	1:117:A:MET:HG3	3	0.31
(1,931)	1:119:A:ILE:HD12	1:180:A:LEU:HA	10	0.31
(1,930)	1:119:A:ILE:HD11	1:175:A:PHE:HA	8	0.31
(1,930)	1:119:A:ILE:HD13	1:175:A:PHE:HA	19	0.31
(1,914)	1:183:A:ILE:HD11	1:182:A:THR:H	10	0.31
(1,899)	1:119:A:ILE:HG22	1:180:A:LEU:HD13	13	0.31
(1,899)	1:119:A:ILE:HG21	1:180:A:LEU:HD13	14	0.31
(1,899)	1:119:A:ILE:HG23	1:180:A:LEU:HD13	16	0.31
(1,898)	1:119:A:ILE:HG21	1:119:A:ILE:HD13	10	0.31
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG22	17	0.31
(1,857)	1:130:A:ALA:HB3	1:127:A:LEU:HD21	2	0.31
(1,857)	1:130:A:ALA:HB2	1:127:A:LEU:HD21	6	0.31
(1,840)	1:181:A:ALA:HB1	1:175:A:PHE:HB2	14	0.31
(1,837)	1:181:A:ALA:HB1	1:175:A:PHE:HA	12	0.31
(1,837)	1:181:A:ALA:HB2	1:175:A:PHE:HA	18	0.31
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG11	1	0.31
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG12	19	0.31
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG11	6	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG13	13	0.31
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG12	20	0.31
(1,822)	1:169:A:VAL:HG12	1:156:A:ARG:H	9	0.31
(1,813)	1:140:A:THR:HG23	1:138:A:LYS:HG3	12	0.31
(1,811)	1:169:A:VAL:HG21	1:169:A:VAL:H	8	0.31
(1,811)	1:169:A:VAL:HG23	1:169:A:VAL:H	17	0.31
(1,807)	1:136:A:VAL:HG21	1:136:A:VAL:HG12	6	0.31
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG23	6	0.31
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG22	14	0.31
(1,803)	1:136:A:VAL:HG22	1:134:A:ARG:H	8	0.31
(1,795)	1:182:A:THR:HG23	1:193:A:GLY:HA3	7	0.31
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG23	5	0.31
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG23	9	0.31
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG22	11	0.31
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG23	1	0.31
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG21	5	0.31
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG21	6	0.31
(1,769)	1:128:A:LEU:HD23	1:124:A:MET:HA	17	0.31
(1,769)	1:128:A:LEU:HD21	1:124:A:MET:HA	18	0.31
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD23	20	0.31
(1,757)	1:171:A:ALA:HB1	1:192:A:PHE:HD1	14	0.31
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG21	2	0.31
(1,748)	1:180:A:LEU:HD11	1:119:A:ILE:HG13	17	0.31
(1,747)	1:180:A:LEU:HD11	1:180:A:LEU:HD21	8	0.31
(1,730)	1:125:A:VAL:HG11	1:126:A:LYS:HB3	7	0.31
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD13	1	0.31
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	1	0.31
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD11	18	0.31
(1,680)	1:140:A:THR:H	1:141:A:ARG:HG3	5	0.31
(1,680)	1:140:A:THR:H	1:141:A:ARG:HG3	12	0.31
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD11	4	0.31
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	1	0.31
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	4	0.31
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	12	0.31
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	14	0.31
(1,575)	1:170:A:ARG:HB3	1:169:A:VAL:HG12	19	0.31
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD12	1	0.31
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	8	0.31
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	16	0.31
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	17	0.31
(1,519)	1:144:A:GLU:HB2	1:136:A:VAL:HG11	4	0.31
(1,508)	1:140:A:THR:H	1:139:A:MET:HB3	10	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	2	0.31
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	3	0.31
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	7	0.31
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	10	0.31
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	17	0.31
(1,451)	1:129:A:GLU:HA	1:129:A:GLU:HG3	2	0.31
(1,451)	1:129:A:GLU:HA	1:129:A:GLU:HG3	18	0.31
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	20	0.31
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	2	0.31
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	9	0.31
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	7	0.31
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	9	0.31
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	11	0.31
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	5	0.31
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	6	0.31
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	8	0.31
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	10	0.31
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	2	0.31
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	12	0.31
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	7	0.31
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	10	0.31
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	17	0.31
(1,304)	1:160:A:ASP:HA	1:159:A:PHE:HD2	8	0.31
(1,299)	1:180:A:LEU:HA	1:181:A:ALA:HA	19	0.31
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG23	19	0.31
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG23	20	0.31
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB2	5	0.31
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB2	18	0.31
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	13	0.31
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	16	0.31
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	20	0.31
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	17	0.31
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	7	0.31
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	6	0.31
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	15	0.31
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	1	0.31
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	8	0.31
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	7	0.31
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	13	0.31
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	16	0.31
(1,73)	1:174:A:THR:HA	1:175:A:PHE:HA	6	0.31
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	4	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	19	0.31
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	20	0.31
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	2	0.31
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	9	0.31
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	11	0.31
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	16	0.31
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	11	0.31
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	15	0.31
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	6	0.3
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	8	0.3
(2,274)	1:140:A:THR:HG23	1:138:A:LYS:HE2	11	0.3
(2,267)	1:113:A:LEU:HD22	1:117:A:MET:HB3	3	0.3
(2,231)	1:141:A:ARG:HG3	1:139:A:MET:HA	1	0.3
(2,228)	1:141:A:ARG:HD2	1:141:A:ARG:HG3	3	0.3
(2,227)	1:173:A:LEU:HD12	1:113:A:LEU:HD22	16	0.3
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	1	0.3
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	9	0.3
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	15	0.3
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	1	0.3
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	14	0.3
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	18	0.3
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	12	0.3
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE3	3	0.3
(2,192)	1:139:A:MET:HG2	1:140:A:THR:H	2	0.3
(2,177)	1:168:A:GLN:HB2	1:158:A:PRO:HB3	4	0.3
(2,177)	1:168:A:GLN:HB3	1:158:A:PRO:HB3	5	0.3
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	8	0.3
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	3	0.3
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	6	0.3
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	19	0.3
(2,109)	1:154:A:MET:HB3	1:173:A:LEU:HG	4	0.3
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB3	15	0.3
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB3	19	0.3
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB2	9	0.3
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	6	0.3
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	14	0.3
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD2	14	0.3
(2,51)	1:141:A:ARG:HA	1:141:A:ARG:HG2	18	0.3
(2,51)	1:141:A:ARG:HA	1:141:A:ARG:HG2	19	0.3
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	2	0.3
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	4	0.3
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	17	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	3	0.3
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	19	0.3
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	20	0.3
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG23	12	0.3
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG22	18	0.3
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG21	12	0.3
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG22	18	0.3
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG22	19	0.3
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	17	0.3
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	19	0.3
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	7	0.3
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	8	0.3
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG21	11	0.3
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD1	7	0.3
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD1	10	0.3
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD1	20	0.3
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	19	0.3
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB1	1	0.3
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB1	3	0.3
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB2	4	0.3
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG22	12	0.3
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG23	16	0.3
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	8	0.3
(1,1023)	1:121:A:LYS:H	1:121:A:LYS:HB3	6	0.3
(1,1023)	1:121:A:LYS:H	1:121:A:LYS:HB3	9	0.3
(1,1023)	1:121:A:LYS:H	1:121:A:LYS:HB3	16	0.3
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD12	1	0.3
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD12	12	0.3
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG12	9	0.3
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	5	0.3
(1,937)	1:119:A:ILE:HD13	1:180:A:LEU:HD23	1	0.3
(1,930)	1:119:A:ILE:HD12	1:175:A:PHE:HA	10	0.3
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD11	1	0.3
(1,899)	1:119:A:ILE:HG22	1:180:A:LEU:HD11	2	0.3
(1,899)	1:119:A:ILE:HG22	1:180:A:LEU:HD11	7	0.3
(1,899)	1:119:A:ILE:HG21	1:180:A:LEU:HD11	9	0.3
(1,898)	1:119:A:ILE:HG21	1:119:A:ILE:HD13	9	0.3
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG22	13	0.3
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG22	20	0.3
(1,878)	1:152:A:ILE:H	1:152:A:ILE:HG22	2	0.3
(1,857)	1:130:A:ALA:HB2	1:127:A:LEU:HD22	10	0.3
(1,848)	1:155:A:ILE:HG23	1:145:A:PHE:HD1	5	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,837)	1:181:A:ALA:HB2	1:175:A:PHE:HA	2	0.3
(1,837)	1:181:A:ALA:HB2	1:175:A:PHE:HA	6	0.3
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG11	10	0.3
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG13	12	0.3
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG11	5	0.3
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG11	10	0.3
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG13	12	0.3
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG11	16	0.3
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG11	17	0.3
(1,822)	1:169:A:VAL:HG11	1:156:A:ARG:H	20	0.3
(1,811)	1:169:A:VAL:HG23	1:169:A:VAL:H	19	0.3
(1,811)	1:169:A:VAL:HG22	1:169:A:VAL:H	20	0.3
(1,807)	1:136:A:VAL:HG21	1:136:A:VAL:HG13	7	0.3
(1,807)	1:136:A:VAL:HG23	1:136:A:VAL:HG11	9	0.3
(1,807)	1:136:A:VAL:HG22	1:136:A:VAL:HG11	18	0.3
(1,807)	1:136:A:VAL:HG22	1:136:A:VAL:HG13	19	0.3
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG22	9	0.3
(1,803)	1:136:A:VAL:HG23	1:134:A:ARG:H	10	0.3
(1,802)	1:184:A:VAL:HG23	1:182:A:THR:HG22	3	0.3
(1,800)	1:182:A:THR:HG23	1:181:A:ALA:HB3	12	0.3
(1,793)	1:182:A:THR:HG21	1:194:A:PHE:H	9	0.3
(1,788)	1:139:A:MET:HB2	1:146:A:THR:HG21	3	0.3
(1,788)	1:139:A:MET:HB2	1:146:A:THR:HG23	7	0.3
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG23	14	0.3
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG22	16	0.3
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG21	3	0.3
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG21	15	0.3
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG21	19	0.3
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG22	15	0.3
(1,769)	1:128:A:LEU:HD23	1:124:A:MET:HA	11	0.3
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD23	11	0.3
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD23	17	0.3
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD21	18	0.3
(1,761)	1:147:A:VAL:HG22	1:135:A:GLN:H	10	0.3
(1,761)	1:147:A:VAL:HG23	1:135:A:GLN:H	15	0.3
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG21	17	0.3
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG22	20	0.3
(1,747)	1:180:A:LEU:HD13	1:180:A:LEU:HD21	2	0.3
(1,747)	1:180:A:LEU:HD13	1:180:A:LEU:HD22	3	0.3
(1,747)	1:180:A:LEU:HD11	1:180:A:LEU:HD23	4	0.3
(1,747)	1:180:A:LEU:HD13	1:180:A:LEU:HD21	9	0.3
(1,747)	1:180:A:LEU:HD11	1:180:A:LEU:HD22	12	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,747)	1:180:A:LEU:HD13	1:180:A:LEU:HD21	17	0.3
(1,747)	1:180:A:LEU:HD13	1:180:A:LEU:HD22	20	0.3
(1,730)	1:125:A:VAL:HG12	1:126:A:LYS:HB3	1	0.3
(1,730)	1:125:A:VAL:HG12	1:126:A:LYS:HB3	12	0.3
(1,730)	1:125:A:VAL:HG13	1:126:A:LYS:HB3	19	0.3
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD12	14	0.3
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD12	11	0.3
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD13	12	0.3
(1,686)	1:197:A:LEU:HD12	1:197:A:LEU:HA	12	0.3
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD21	12	0.3
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD21	16	0.3
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD13	19	0.3
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	2	0.3
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	9	0.3
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	13	0.3
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	15	0.3
(1,606)	1:126:A:LYS:HD2	1:127:A:LEU:HD12	18	0.3
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	6	0.3
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	9	0.3
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	8	0.3
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	10	0.3
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	11	0.3
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD13	16	0.3
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	1	0.3
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	11	0.3
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	19	0.3
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	17	0.3
(1,494)	1:117:A:MET:HB2	1:180:A:LEU:HB3	17	0.3
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	5	0.3
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	6	0.3
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	11	0.3
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG21	20	0.3
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	11	0.3
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	13	0.3
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	19	0.3
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	20	0.3
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	5	0.3
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	3	0.3
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	1	0.3
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	3	0.3
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	9	0.3
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD12	15	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	1	0.3
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	4	0.3
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	15	0.3
(1,304)	1:160:A:ASP:HA	1:159:A:PHE:HD2	13	0.3
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB1	10	0.3
(1,284)	1:173:A:LEU:HA	1:171:A:ALA:HB2	18	0.3
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB3	4	0.3
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB3	17	0.3
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG22	1	0.3
(1,251)	1:179:A:HIS:HA	1:119:A:ILE:HG22	15	0.3
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	8	0.3
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	1	0.3
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	8	0.3
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	17	0.3
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	1	0.3
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	9	0.3
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	17	0.3
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	19	0.3
(1,197)	1:117:A:MET:HA	1:119:A:ILE:HG22	15	0.3
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	15	0.3
(1,157)	1:126:A:LYS:HA	1:129:A:GLU:HB3	19	0.3
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	3	0.3
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	6	0.3
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	11	0.3
(1,89)	1:118:A:THR:HA	1:117:A:MET:HG2	4	0.3
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	8	0.3
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD13	9	0.3
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD11	10	0.3
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	19	0.3
(1,52)	1:151:A:SER:HB2	1:174:A:THR:HG21	6	0.3
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	1	0.3
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	4	0.3
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	12	0.3
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG23	7	0.3
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	17	0.3
(1,18)	1:146:A:THR:HB	1:139:A:MET:HB2	20	0.3
(2,274)	1:140:A:THR:HG22	1:138:A:LYS:HE2	14	0.29
(2,267)	1:113:A:LEU:HD21	1:117:A:MET:HB3	14	0.29
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	14	0.29
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	20	0.29
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD13	9	0.29
(2,228)	1:141:A:ARG:HD2	1:141:A:ARG:HG3	10	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	7	0.29
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	14	0.29
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	5	0.29
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	6	0.29
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	9	0.29
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	10	0.29
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	12	0.29
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	13	0.29
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	17	0.29
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	19	0.29
(2,190)	1:139:A:MET:HG2	1:139:A:MET:H	7	0.29
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	1	0.29
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	4	0.29
(2,156)	1:168:A:GLN:HG3	1:155:A:ILE:HD13	17	0.29
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	2	0.29
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	9	0.29
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	10	0.29
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	16	0.29
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	19	0.29
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	5	0.29
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	14	0.29
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	8	0.29
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB3	2	0.29
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB2	5	0.29
(2,88)	1:165:A:LYS:HE3	1:164:A:SER:H	11	0.29
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	3	0.29
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	8	0.29
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	16	0.29
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	18	0.29
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	17	0.29
(2,74)	1:145:A:PHE:HB2	1:147:A:VAL:HG21	6	0.29
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	17	0.29
(2,51)	1:141:A:ARG:HA	1:141:A:ARG:HG2	8	0.29
(2,46)	1:153:A:GLU:HA	1:186:A:MET:HG3	2	0.29
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	2	0.29
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	6	0.29
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	8	0.29
(2,2)	1:140:A:THR:HB	1:138:A:LYS:HE2	4	0.29
(2,2)	1:140:A:THR:HB	1:138:A:LYS:HE2	15	0.29
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	20	0.29
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	1	0.29
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	13	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1200)	1:140:A:THR:H	1:155:A:ILE:HD12	3	0.29
(1,1200)	1:140:A:THR:H	1:155:A:ILE:HD13	16	0.29
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG22	1	0.29
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG22	5	0.29
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG22	12	0.29
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB2	5	0.29
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB1	11	0.29
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB3	16	0.29
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB3	17	0.29
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB3	18	0.29
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG21	14	0.29
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG22	15	0.29
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD12	9	0.29
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD11	11	0.29
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD13	12	0.29
(1,1023)	1:121:A:LYS:H	1:121:A:LYS:HB3	13	0.29
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD11	2	0.29
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD12	8	0.29
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD13	11	0.29
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD11	19	0.29
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	8	0.29
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	14	0.29
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG11	3	0.29
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG11	6	0.29
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG12	12	0.29
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	6	0.29
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	14	0.29
(1,977)	1:135:A:GLN:H	1:134:A:ARG:HB2	1	0.29
(1,977)	1:135:A:GLN:H	1:134:A:ARG:HB2	11	0.29
(1,912)	1:152:A:ILE:HD11	1:173:A:LEU:HD21	11	0.29
(1,899)	1:119:A:ILE:HG23	1:180:A:LEU:HD12	8	0.29
(1,890)	1:119:A:ILE:HG22	1:175:A:PHE:HD1	7	0.29
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG22	1	0.29
(1,850)	1:183:A:ILE:HG21	1:114:A:GLU:H	12	0.29
(1,840)	1:181:A:ALA:HB3	1:175:A:PHE:HB2	4	0.29
(1,840)	1:181:A:ALA:HB1	1:175:A:PHE:HB2	19	0.29
(1,837)	1:181:A:ALA:HB3	1:175:A:PHE:HA	1	0.29
(1,837)	1:181:A:ALA:HB3	1:175:A:PHE:HA	3	0.29
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG11	5	0.29
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG12	7	0.29
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG12	4	0.29
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG11	15	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,822)	1:169:A:VAL:HG11	1:156:A:ARG:H	1	0.29
(1,807)	1:136:A:VAL:HG21	1:136:A:VAL:HG12	5	0.29
(1,807)	1:136:A:VAL:HG23	1:136:A:VAL:HG13	8	0.29
(1,807)	1:136:A:VAL:HG23	1:136:A:VAL:HG11	13	0.29
(1,807)	1:136:A:VAL:HG21	1:136:A:VAL:HG13	17	0.29
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG21	1	0.29
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG22	8	0.29
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG21	12	0.29
(1,803)	1:136:A:VAL:HG22	1:134:A:ARG:H	13	0.29
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG22	6	0.29
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG22	16	0.29
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG23	17	0.29
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD23	3	0.29
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD23	4	0.29
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD23	5	0.29
(1,748)	1:180:A:LEU:HD13	1:119:A:ILE:HG13	5	0.29
(1,748)	1:180:A:LEU:HD11	1:119:A:ILE:HG13	20	0.29
(1,747)	1:180:A:LEU:HD12	1:180:A:LEU:HD23	11	0.29
(1,747)	1:180:A:LEU:HD12	1:180:A:LEU:HD21	16	0.29
(1,717)	1:127:A:LEU:HA	1:127:A:LEU:HD21	8	0.29
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD12	2	0.29
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	4	0.29
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD12	5	0.29
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD12	14	0.29
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD13	15	0.29
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD12	17	0.29
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD13	20	0.29
(1,670)	1:173:A:LEU:HD11	1:175:A:PHE:HD1	10	0.29
(1,670)	1:173:A:LEU:HD13	1:175:A:PHE:HD1	13	0.29
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	2	0.29
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	5	0.29
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD13	2	0.29
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	5	0.29
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	11	0.29
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	19	0.29
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	11	0.29
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	14	0.29
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	1	0.29
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	5	0.29
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	6	0.29
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD12	14	0.29
(1,570)	1:179:A:HIS:HB2	1:178:A:ASP:H	12	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	2	0.29
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	9	0.29
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	14	0.29
(1,517)	1:135:A:GLN:HG2	1:146:A:THR:HA	8	0.29
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	4	0.29
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	16	0.29
(1,451)	1:129:A:GLU:HA	1:129:A:GLU:HG3	5	0.29
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	9	0.29
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	10	0.29
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	1	0.29
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	1	0.29
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	10	0.29
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	16	0.29
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	18	0.29
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	8	0.29
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	16	0.29
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	5	0.29
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	13	0.29
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	14	0.29
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	17	0.29
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	2	0.29
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	5	0.29
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	8	0.29
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB1	8	0.29
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB2	11	0.29
(1,267)	1:180:A:LEU:HA	1:181:A:ALA:HB2	20	0.29
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	3	0.29
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	11	0.29
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	19	0.29
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	2	0.29
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	3	0.29
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	1	0.29
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	12	0.29
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	2	0.29
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	10	0.29
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	15	0.29
(1,89)	1:118:A:THR:HA	1:117:A:MET:HG2	6	0.29
(1,89)	1:118:A:THR:HA	1:117:A:MET:HG2	7	0.29
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	19	0.29
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD11	11	0.29
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	20	0.29
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	16	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	3	0.29
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	9	0.29
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	16	0.29
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	17	0.29
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	3	0.29
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	7	0.29
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	15	0.29
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	17	0.29
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	20	0.29
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG22	15	0.29
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG21	16	0.29
(1,13)	1:194:A:PHE:HD2	1:194:A:PHE:HA	3	0.29
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	2	0.28
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	5	0.28
(2,266)	1:113:A:LEU:HD11	1:173:A:LEU:HA	4	0.28
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD11	10	0.28
(2,234)	1:126:A:LYS:HG3	1:126:A:LYS:HE2	3	0.28
(2,228)	1:141:A:ARG:HD2	1:141:A:ARG:HG3	11	0.28
(2,228)	1:141:A:ARG:HD2	1:141:A:ARG:HG3	15	0.28
(2,221)	1:134:A:ARG:HD2	1:134:A:ARG:HG3	12	0.28
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	8	0.28
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	11	0.28
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	15	0.28
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	3	0.28
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	11	0.28
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE3	18	0.28
(2,190)	1:139:A:MET:HG2	1:139:A:MET:H	12	0.28
(2,172)	1:110:A:MET:HB3	1:110:A:MET:H	4	0.28
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	16	0.28
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	3	0.28
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	1	0.28
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	12	0.28
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB2	13	0.28
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	17	0.28
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB2	17	0.28
(2,97)	1:179:A:HIS:H	1:178:A:ASP:HB2	19	0.28
(2,88)	1:165:A:LYS:HE3	1:164:A:SER:H	3	0.28
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	13	0.28
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	1	0.28
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	11	0.28
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	20	0.28
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	15	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,64)	1:170:A:ARG:HD3	1:186:A:MET:HG2	9	0.28
(2,51)	1:141:A:ARG:HA	1:141:A:ARG:HG2	5	0.28
(2,51)	1:141:A:ARG:HA	1:141:A:ARG:HG2	15	0.28
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	7	0.28
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	12	0.28
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	14	0.28
(2,40)	1:138:A:LYS:HA	1:138:A:LYS:HE3	17	0.28
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD13	15	0.28
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	11	0.28
(2,14)	1:111:A:VAL:HA	1:110:A:MET:HG3	15	0.28
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG21	9	0.28
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG22	15	0.28
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG22	17	0.28
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	10	0.28
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	15	0.28
(1,1216)	1:177:A:GLY:H	1:175:A:PHE:HB3	14	0.28
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	12	0.28
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	20	0.28
(1,1200)	1:140:A:THR:H	1:155:A:ILE:HD12	11	0.28
(1,1167)	1:159:A:PHE:H	1:159:A:PHE:HB2	4	0.28
(1,1167)	1:159:A:PHE:H	1:159:A:PHE:HB2	10	0.28
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB3	7	0.28
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB2	12	0.28
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD13	8	0.28
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	19	0.28
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	4	0.28
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG21	19	0.28
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	7	0.28
(1,1001)	1:165:A:LYS:H	1:164:A:SER:HB3	5	0.28
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD23	2	0.28
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD23	8	0.28
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD23	17	0.28
(1,932)	1:119:A:ILE:HD13	1:117:A:MET:HG3	18	0.28
(1,930)	1:119:A:ILE:HD12	1:175:A:PHE:HA	5	0.28
(1,923)	1:183:A:ILE:HD13	1:114:A:GLU:H	10	0.28
(1,921)	1:180:A:LEU:HD11	1:183:A:ILE:HD13	4	0.28
(1,902)	1:152:A:ILE:HD13	1:133:A:TYR:HD2	3	0.28
(1,902)	1:152:A:ILE:HD13	1:133:A:TYR:HD2	17	0.28
(1,898)	1:119:A:ILE:HG23	1:119:A:ILE:HD11	19	0.28
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG23	19	0.28
(1,857)	1:130:A:ALA:HB1	1:127:A:LEU:HD22	9	0.28
(1,837)	1:181:A:ALA:HB3	1:175:A:PHE:HA	9	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG11	11	0.28
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG12	20	0.28
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG13	3	0.28
(1,827)	1:186:A:MET:H	1:184:A:VAL:HG11	14	0.28
(1,822)	1:169:A:VAL:HG12	1:156:A:ARG:H	7	0.28
(1,811)	1:169:A:VAL:HG21	1:169:A:VAL:H	2	0.28
(1,811)	1:169:A:VAL:HG21	1:169:A:VAL:H	6	0.28
(1,811)	1:169:A:VAL:HG23	1:169:A:VAL:H	18	0.28
(1,807)	1:136:A:VAL:HG22	1:136:A:VAL:HG13	12	0.28
(1,807)	1:136:A:VAL:HG21	1:136:A:VAL:HG12	15	0.28
(1,800)	1:182:A:THR:HG22	1:181:A:ALA:HB2	16	0.28
(1,799)	1:182:A:THR:HG21	1:194:A:PHE:HA	17	0.28
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG21	2	0.28
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG21	3	0.28
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG21	2	0.28
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG22	11	0.28
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG23	6	0.28
(1,780)	1:192:A:PHE:HD1	1:184:A:VAL:HG23	15	0.28
(1,776)	1:146:A:THR:H	1:146:A:THR:HG21	3	0.28
(1,767)	1:131:A:THR:H	1:128:A:LEU:HD22	2	0.28
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD23	19	0.28
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG21	4	0.28
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG21	5	0.28
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG22	11	0.28
(1,748)	1:180:A:LEU:HD12	1:119:A:ILE:HG13	4	0.28
(1,747)	1:180:A:LEU:HD11	1:180:A:LEU:HD21	1	0.28
(1,747)	1:180:A:LEU:HD13	1:180:A:LEU:HD23	6	0.28
(1,747)	1:180:A:LEU:HD12	1:180:A:LEU:HD21	14	0.28
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB2	3	0.28
(1,712)	1:165:A:LYS:HG2	1:161:A:PHE:H	2	0.28
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD13	9	0.28
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD12	4	0.28
(1,680)	1:140:A:THR:H	1:141:A:ARG:HG3	9	0.28
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD22	9	0.28
(1,672)	1:173:A:LEU:HD11	1:183:A:ILE:HD11	9	0.28
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	4	0.28
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG22	20	0.28
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD13	11	0.28
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD11	1	0.28
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD13	3	0.28
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD13	7	0.28
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD13	17	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD11	18	0.28
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG21	14	0.28
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG21	15	0.28
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	15	0.28
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	4	0.28
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	15	0.28
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	16	0.28
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	18	0.28
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	4	0.28
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD11	7	0.28
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD12	12	0.28
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	10	0.28
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	20	0.28
(1,499)	1:135:A:GLN:HG3	1:136:A:VAL:HA	5	0.28
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	8	0.28
(1,451)	1:129:A:GLU:HA	1:129:A:GLU:HG3	20	0.28
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	5	0.28
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	6	0.28
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	18	0.28
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	14	0.28
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	19	0.28
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	12	0.28
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	15	0.28
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	16	0.28
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	9	0.28
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	12	0.28
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	10	0.28
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	10	0.28
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	19	0.28
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	4	0.28
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	7	0.28
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG23	4	0.28
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG21	13	0.28
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	9	0.28
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	11	0.28
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	12	0.28
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB3	12	0.28
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB1	16	0.28
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB3	19	0.28
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG22	2	0.28
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	4	0.28
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	15	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	16	0.28
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	20	0.28
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	5	0.28
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	8	0.28
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	11	0.28
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	12	0.28
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	15	0.28
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	20	0.28
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	8	0.28
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	10	0.28
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	11	0.28
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	14	0.28
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	17	0.28
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	19	0.28
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	1	0.28
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	15	0.28
(1,132)	1:146:A:THR:HA	1:133:A:TYR:HD1	16	0.28
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	2	0.28
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	14	0.28
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	17	0.28
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	20	0.28
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD13	1	0.28
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	7	0.28
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	13	0.28
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	16	0.28
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	8	0.28
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	14	0.28
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	18	0.28
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	5	0.28
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	8	0.28
(1,42)	1:118:A:THR:HB	1:180:A:LEU:H	14	0.28
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG23	17	0.28
(2,274)	1:140:A:THR:HG22	1:138:A:LYS:HE2	15	0.27
(2,267)	1:113:A:LEU:HD21	1:117:A:MET:HB3	5	0.27
(2,267)	1:113:A:LEU:HD21	1:117:A:MET:HB3	20	0.27
(2,260)	1:125:A:VAL:HG21	1:128:A:LEU:HD12	9	0.27
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	15	0.27
(2,188)	1:139:A:MET:HG3	1:146:A:THR:HA	8	0.27
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	3	0.27
(2,151)	1:168:A:GLN:HG3	1:169:A:VAL:HG11	15	0.27
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	11	0.27
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	17	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	4	0.27
(2,123)	1:123:A:GLU:HG3	1:119:A:ILE:HA	1	0.27
(2,122)	1:123:A:GLU:HG2	1:127:A:LEU:HD13	19	0.27
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	17	0.27
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	7	0.27
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	16	0.27
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	10	0.27
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	13	0.27
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB3	4	0.27
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB3	3	0.27
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB2	13	0.27
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB2	17	0.27
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	15	0.27
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	7	0.27
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	14	0.27
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	12	0.27
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	13	0.27
(2,61)	1:170:A:ARG:HD2	1:169:A:VAL:HG12	7	0.27
(2,51)	1:141:A:ARG:HA	1:141:A:ARG:HG2	10	0.27
(2,51)	1:141:A:ARG:HA	1:141:A:ARG:HG2	16	0.27
(2,51)	1:141:A:ARG:HA	1:141:A:ARG:HG2	17	0.27
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	1	0.27
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	9	0.27
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	14	0.27
(2,9)	1:164:A:SER:HB3	1:161:A:PHE:HD1	8	0.27
(2,2)	1:140:A:THR:HB	1:138:A:LYS:HE2	11	0.27
(2,2)	1:140:A:THR:HB	1:138:A:LYS:HE2	14	0.27
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG23	9	0.27
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG22	13	0.27
(1,1257)	1:143:A:GLY:H	1:142:A:PRO:HB2	18	0.27
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	4	0.27
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	11	0.27
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	11	0.27
(1,1200)	1:140:A:THR:H	1:155:A:ILE:HD11	17	0.27
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG23	15	0.27
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB1	2	0.27
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB3	6	0.27
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB3	14	0.27
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB1	15	0.27
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB3	20	0.27
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD12	2	0.27
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD12	3	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD11	16	0.27
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD13	18	0.27
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	17	0.27
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	3	0.27
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD21	3	0.27
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD23	14	0.27
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD21	18	0.27
(1,937)	1:119:A:ILE:HD13	1:180:A:LEU:HD23	9	0.27
(1,937)	1:119:A:ILE:HD12	1:180:A:LEU:HD21	12	0.27
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD13	12	0.27
(1,923)	1:183:A:ILE:HD12	1:114:A:GLU:H	15	0.27
(1,902)	1:152:A:ILE:HD11	1:133:A:TYR:HD2	13	0.27
(1,898)	1:119:A:ILE:HG21	1:119:A:ILE:HD12	3	0.27
(1,898)	1:119:A:ILE:HG23	1:119:A:ILE:HD12	8	0.27
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG23	11	0.27
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG23	5	0.27
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG21	8	0.27
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB3	8	0.27
(1,848)	1:155:A:ILE:HG22	1:145:A:PHE:HD1	2	0.27
(1,840)	1:181:A:ALA:HB2	1:175:A:PHE:HB2	5	0.27
(1,840)	1:181:A:ALA:HB2	1:175:A:PHE:HB2	20	0.27
(1,837)	1:181:A:ALA:HB1	1:175:A:PHE:HA	19	0.27
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG13	13	0.27
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG11	16	0.27
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG22	8	0.27
(1,811)	1:169:A:VAL:HG21	1:169:A:VAL:H	11	0.27
(1,807)	1:136:A:VAL:HG22	1:136:A:VAL:HG11	1	0.27
(1,807)	1:136:A:VAL:HG21	1:136:A:VAL:HG12	4	0.27
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG22	3	0.27
(1,800)	1:182:A:THR:HG22	1:181:A:ALA:HB1	18	0.27
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG22	6	0.27
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG21	10	0.27
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG23	20	0.27
(1,776)	1:146:A:THR:H	1:146:A:THR:HG23	1	0.27
(1,776)	1:146:A:THR:H	1:146:A:THR:HG23	13	0.27
(1,776)	1:146:A:THR:H	1:146:A:THR:HG22	18	0.27
(1,776)	1:146:A:THR:H	1:146:A:THR:HG21	19	0.27
(1,773)	1:128:A:LEU:HD22	1:127:A:LEU:HB3	19	0.27
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD23	15	0.27
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG22	4	0.27
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG22	17	0.27
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG23	9	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG22	13	0.27
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG21	15	0.27
(1,748)	1:180:A:LEU:HD11	1:119:A:ILE:HG13	2	0.27
(1,748)	1:180:A:LEU:HD11	1:119:A:ILE:HG13	6	0.27
(1,748)	1:180:A:LEU:HD13	1:119:A:ILE:HG13	11	0.27
(1,704)	1:165:A:LYS:H	1:165:A:LYS:HG2	16	0.27
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD13	16	0.27
(1,680)	1:140:A:THR:H	1:141:A:ARG:HG3	2	0.27
(1,680)	1:140:A:THR:H	1:141:A:ARG:HG3	16	0.27
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	11	0.27
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG23	2	0.27
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG21	11	0.27
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG23	17	0.27
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD12	9	0.27
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD11	13	0.27
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD12	17	0.27
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD12	11	0.27
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD12	16	0.27
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	3	0.27
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	16	0.27
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	20	0.27
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG22	7	0.27
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	20	0.27
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	7	0.27
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	15	0.27
(1,533)	1:158:A:PRO:HB3	1:169:A:VAL:H	15	0.27
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD11	3	0.27
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	12	0.27
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	19	0.27
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	20	0.27
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	11	0.27
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	20	0.27
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD13	5	0.27
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD12	10	0.27
(1,418)	1:119:A:ILE:HB	1:127:A:LEU:HD11	12	0.27
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	3	0.27
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	8	0.27
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	13	0.27
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	8	0.27
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	15	0.27
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	20	0.27
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	8	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	11	0.27
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD13	1	0.27
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	10	0.27
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	8	0.27
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	13	0.27
(1,303)	1:197:A:LEU:HA	1:176:A:ASP:HA	8	0.27
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB2	1	0.27
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB3	4	0.27
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB3	5	0.27
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB1	14	0.27
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB2	15	0.27
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB1	17	0.27
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB1	18	0.27
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB1	20	0.27
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	4	0.27
(1,247)	1:170:A:ARG:HA	1:155:A:ILE:HD11	7	0.27
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	2	0.27
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	10	0.27
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	17	0.27
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	10	0.27
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	14	0.27
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	18	0.27
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	2	0.27
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	12	0.27
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	13	0.27
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	18	0.27
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	7	0.27
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	8	0.27
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	11	0.27
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	19	0.27
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	3	0.27
(1,98)	1:131:A:THR:HA	1:128:A:LEU:HA	9	0.27
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	6	0.27
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD13	5	0.27
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD12	15	0.27
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD13	17	0.27
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD11	19	0.27
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	2	0.27
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	13	0.27
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	5	0.27
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	6	0.27
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	13	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	16	0.27
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG22	3	0.27
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG22	6	0.27
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG21	20	0.27
(1,34)	1:131:A:THR:HB	1:127:A:LEU:HB2	5	0.27
(1,34)	1:131:A:THR:HB	1:127:A:LEU:HB2	19	0.27
(1,13)	1:194:A:PHE:HD2	1:194:A:PHE:HA	11	0.27
(2,285)	1:186:A:MET:HG3	1:186:A:MET:HB2	3	0.26
(2,274)	1:140:A:THR:HG21	1:138:A:LYS:HE2	4	0.26
(2,274)	1:140:A:THR:HG21	1:138:A:LYS:HE2	8	0.26
(2,267)	1:113:A:LEU:HD23	1:117:A:MET:HB3	11	0.26
(2,267)	1:113:A:LEU:HD12	1:117:A:MET:HB3	18	0.26
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	4	0.26
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	10	0.26
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	14	0.26
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD12	18	0.26
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	17	0.26
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE3	13	0.26
(2,181)	1:117:A:MET:HG2	1:113:A:LEU:HD11	6	0.26
(2,173)	1:110:A:MET:HB2	1:111:A:VAL:HA	20	0.26
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	11	0.26
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	13	0.26
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	2	0.26
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	4	0.26
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	20	0.26
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	4	0.26
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	6	0.26
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	17	0.26
(2,135)	1:166:A:GLU:HG2	1:164:A:SER:HB3	3	0.26
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	11	0.26
(2,114)	1:122:A:ASN:HB3	1:125:A:VAL:HG13	8	0.26
(2,109)	1:154:A:MET:HB3	1:173:A:LEU:HG	16	0.26
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	20	0.26
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	14	0.26
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	2	0.26
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	15	0.26
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	17	0.26
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	3	0.26
(2,56)	1:197:A:LEU:HB3	1:176:A:ASP:HA	12	0.26
(2,51)	1:141:A:ARG:HA	1:141:A:ARG:HG2	2	0.26
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	18	0.26
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	6	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,14)	1:111:A:VAL:HA	1:110:A:MET:HG3	16	0.26
(2,9)	1:164:A:SER:HB3	1:161:A:PHE:HD1	7	0.26
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG21	8	0.26
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG23	19	0.26
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG23	13	0.26
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG21	20	0.26
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	7	0.26
(1,1215)	1:122:A:ASN:H	1:121:A:LYS:HB3	12	0.26
(1,1200)	1:140:A:THR:H	1:155:A:ILE:HD11	18	0.26
(1,1146)	1:155:A:ILE:H	1:155:A:ILE:HD11	7	0.26
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB1	13	0.26
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	1	0.26
(1,1073)	1:169:A:VAL:H	1:168:A:GLN:HG3	4	0.26
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD12	17	0.26
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	20	0.26
(1,1023)	1:121:A:LYS:H	1:121:A:LYS:HB3	20	0.26
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD13	13	0.26
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD11	20	0.26
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	3	0.26
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	5	0.26
(1,1001)	1:165:A:LYS:H	1:164:A:SER:HB3	6	0.26
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG12	8	0.26
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG13	13	0.26
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD12	14	0.26
(1,907)	1:152:A:ILE:HD11	1:124:A:MET:HA	15	0.26
(1,907)	1:152:A:ILE:HD12	1:124:A:MET:HA	16	0.26
(1,902)	1:152:A:ILE:HD11	1:133:A:TYR:HD2	4	0.26
(1,902)	1:152:A:ILE:HD11	1:133:A:TYR:HD2	16	0.26
(1,899)	1:119:A:ILE:HG22	1:180:A:LEU:HD12	12	0.26
(1,899)	1:119:A:ILE:HG21	1:180:A:LEU:HD11	15	0.26
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG22	18	0.26
(1,840)	1:181:A:ALA:HB2	1:175:A:PHE:HB2	10	0.26
(1,840)	1:181:A:ALA:HB1	1:175:A:PHE:HB2	12	0.26
(1,840)	1:181:A:ALA:HB3	1:175:A:PHE:HB2	15	0.26
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB1	13	0.26
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB1	15	0.26
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG11	2	0.26
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG13	3	0.26
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG11	6	0.26
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG12	8	0.26
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG11	17	0.26
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG21	5	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,807)	1:136:A:VAL:HG23	1:136:A:VAL:HG13	14	0.26
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG23	7	0.26
(1,803)	1:136:A:VAL:HG22	1:134:A:ARG:H	3	0.26
(1,803)	1:136:A:VAL:HG23	1:134:A:ARG:H	19	0.26
(1,802)	1:184:A:VAL:HG23	1:182:A:THR:HG21	6	0.26
(1,800)	1:182:A:THR:HG21	1:181:A:ALA:HB2	1	0.26
(1,800)	1:182:A:THR:HG23	1:181:A:ALA:HB2	4	0.26
(1,800)	1:182:A:THR:HG23	1:181:A:ALA:HB1	6	0.26
(1,800)	1:182:A:THR:HG21	1:181:A:ALA:HB1	10	0.26
(1,800)	1:182:A:THR:HG21	1:181:A:ALA:HB1	20	0.26
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG23	5	0.26
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG21	12	0.26
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG22	17	0.26
(1,784)	1:184:A:VAL:HG22	1:184:A:VAL:HG12	12	0.26
(1,776)	1:146:A:THR:H	1:146:A:THR:HG22	6	0.26
(1,776)	1:146:A:THR:H	1:146:A:THR:HG22	16	0.26
(1,773)	1:128:A:LEU:HD22	1:127:A:LEU:HB3	8	0.26
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG22	5	0.26
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG23	7	0.26
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG23	8	0.26
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG21	14	0.26
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG23	19	0.26
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG23	20	0.26
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG22	6	0.26
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG22	10	0.26
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG21	16	0.26
(1,747)	1:180:A:LEU:HD13	1:180:A:LEU:HD23	7	0.26
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB1	12	0.26
(1,709)	1:127:A:LEU:H	1:127:A:LEU:HD11	10	0.26
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	3	0.26
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD11	6	0.26
(1,672)	1:173:A:LEU:HD12	1:183:A:ILE:HD11	16	0.26
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	3	0.26
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	18	0.26
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG22	4	0.26
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG22	9	0.26
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG22	10	0.26
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG22	10	0.26
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD12	14	0.26
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	6	0.26
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	11	0.26
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	19	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	1	0.26
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	7	0.26
(1,603)	1:119:A:ILE:HG12	1:120:A:SER:H	16	0.26
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	2	0.26
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	7	0.26
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	9	0.26
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	12	0.26
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	17	0.26
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	3	0.26
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	6	0.26
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	12	0.26
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	14	0.26
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD13	14	0.26
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD11	17	0.26
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD13	6	0.26
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD13	18	0.26
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	12	0.26
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	13	0.26
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	3	0.26
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	4	0.26
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	11	0.26
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	18	0.26
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG22	14	0.26
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	16	0.26
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	1	0.26
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	16	0.26
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD11	19	0.26
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	2	0.26
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	11	0.26
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	20	0.26
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	7	0.26
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	12	0.26
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	15	0.26
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	18	0.26
(1,345)	1:171:A:ALA:HA	1:169:A:VAL:HG11	1	0.26
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	20	0.26
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG21	7	0.26
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	18	0.26
(1,304)	1:160:A:ASP:HA	1:159:A:PHE:HD2	14	0.26
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB2	2	0.26
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB2	3	0.26
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB1	6	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB1	7	0.26
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB3	9	0.26
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB1	10	0.26
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB2	11	0.26
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG21	1	0.26
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG23	8	0.26
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	2	0.26
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	4	0.26
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	7	0.26
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	14	0.26
(1,227)	1:165:A:LYS:HA	1:164:A:SER:HB3	19	0.26
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	6	0.26
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	16	0.26
(1,211)	1:139:A:MET:HA	1:146:A:THR:HG22	17	0.26
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	11	0.26
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	7	0.26
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	6	0.26
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	1	0.26
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD12	16	0.26
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	8	0.26
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	9	0.26
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	12	0.26
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	18	0.26
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	1	0.26
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	10	0.26
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	15	0.26
(1,52)	1:151:A:SER:HB2	1:174:A:THR:HG22	4	0.26
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG23	18	0.26
(1,35)	1:131:A:THR:HB	1:133:A:TYR:HD2	3	0.26
(1,12)	1:194:A:PHE:HD2	1:193:A:GLY:HA3	9	0.26
(1,6)	1:133:A:TYR:HD1	1:128:A:LEU:HG	20	0.26
(2,278)	1:174:A:THR:HG23	1:197:A:LEU:HB2	9	0.25
(2,274)	1:140:A:THR:HG22	1:138:A:LYS:HE2	13	0.25
(2,274)	1:140:A:THR:HG21	1:138:A:LYS:HE2	19	0.25
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	5	0.25
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	8	0.25
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD11	3	0.25
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	1	0.25
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	8	0.25
(2,192)	1:139:A:MET:HG2	1:140:A:THR:H	1	0.25
(2,192)	1:139:A:MET:HG2	1:140:A:THR:H	7	0.25
(2,192)	1:139:A:MET:HG2	1:140:A:THR:H	12	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,192)	1:139:A:MET:HG3	1:140:A:THR:H	18	0.25
(2,188)	1:139:A:MET:HG2	1:146:A:THR:HA	11	0.25
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG3	4	0.25
(2,151)	1:168:A:GLN:HG3	1:169:A:VAL:HG13	10	0.25
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	5	0.25
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	18	0.25
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	16	0.25
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	5	0.25
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	13	0.25
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	18	0.25
(2,135)	1:166:A:GLU:HG2	1:164:A:SER:HB3	12	0.25
(2,135)	1:166:A:GLU:HG2	1:164:A:SER:HB3	14	0.25
(2,123)	1:123:A:GLU:HG3	1:119:A:ILE:HA	16	0.25
(2,118)	1:123:A:GLU:HG3	1:123:A:GLU:H	20	0.25
(2,113)	1:122:A:ASN:HB2	1:123:A:GLU:H	20	0.25
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	3	0.25
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	12	0.25
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	14	0.25
(2,109)	1:154:A:MET:HB3	1:173:A:LEU:HG	10	0.25
(2,109)	1:154:A:MET:HB2	1:173:A:LEU:HG	19	0.25
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	19	0.25
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB3	7	0.25
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB3	19	0.25
(2,88)	1:165:A:LYS:HE3	1:164:A:SER:H	5	0.25
(2,84)	1:165:A:LYS:HE2	1:160:A:ASP:HA	12	0.25
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	1	0.25
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	4	0.25
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	17	0.25
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	19	0.25
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	20	0.25
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	11	0.25
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	7	0.25
(2,53)	1:177:A:GLY:HA2	1:178:A:ASP:HB3	19	0.25
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	20	0.25
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	10	0.25
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	13	0.25
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	2	0.25
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	3	0.25
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	20	0.25
(2,2)	1:140:A:THR:HB	1:138:A:LYS:HE2	5	0.25
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG21	5	0.25
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG23	15	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1257)	1:143:A:GLY:H	1:142:A:PRO:HB2	5	0.25
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	5	0.25
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	18	0.25
(1,1200)	1:140:A:THR:H	1:155:A:ILE:HD12	10	0.25
(1,1176)	1:114:A:GLU:H	1:114:A:GLU:HB2	10	0.25
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	11	0.25
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB2	9	0.25
(1,1107)	1:129:A:GLU:H	1:130:A:ALA:HB3	10	0.25
(1,1050)	1:176:A:ASP:H	1:180:A:LEU:HD13	4	0.25
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	1	0.25
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	2	0.25
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	9	0.25
(1,1001)	1:165:A:LYS:H	1:164:A:SER:HB3	10	0.25
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG13	16	0.25
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	13	0.25
(1,932)	1:119:A:ILE:HD12	1:117:A:MET:HG3	8	0.25
(1,930)	1:119:A:ILE:HD12	1:175:A:PHE:HA	17	0.25
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD11	9	0.25
(1,902)	1:152:A:ILE:HD13	1:133:A:TYR:HD2	10	0.25
(1,898)	1:119:A:ILE:HG22	1:119:A:ILE:HD13	18	0.25
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG21	15	0.25
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB2	19	0.25
(1,840)	1:181:A:ALA:HB3	1:175:A:PHE:HB2	7	0.25
(1,840)	1:181:A:ALA:HB3	1:175:A:PHE:HB2	9	0.25
(1,840)	1:181:A:ALA:HB3	1:175:A:PHE:HB2	17	0.25
(1,840)	1:181:A:ALA:HB2	1:175:A:PHE:HB2	18	0.25
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB1	7	0.25
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB2	19	0.25
(1,837)	1:181:A:ALA:HB1	1:175:A:PHE:HA	14	0.25
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG12	4	0.25
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG21	3	0.25
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG21	9	0.25
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG21	11	0.25
(1,811)	1:169:A:VAL:HG21	1:169:A:VAL:H	3	0.25
(1,811)	1:169:A:VAL:HG23	1:169:A:VAL:H	5	0.25
(1,811)	1:169:A:VAL:HG22	1:169:A:VAL:H	12	0.25
(1,803)	1:136:A:VAL:HG22	1:134:A:ARG:H	16	0.25
(1,803)	1:136:A:VAL:HG22	1:134:A:ARG:H	20	0.25
(1,800)	1:182:A:THR:HG21	1:181:A:ALA:HB1	2	0.25
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG22	10	0.25
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG23	13	0.25
(1,776)	1:146:A:THR:H	1:146:A:THR:HG22	11	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,776)	1:146:A:THR:H	1:146:A:THR:HG22	17	0.25
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG23	1	0.25
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG22	2	0.25
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG23	6	0.25
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG23	10	0.25
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG23	11	0.25
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG22	12	0.25
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG23	13	0.25
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG21	18	0.25
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG22	8	0.25
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG21	12	0.25
(1,748)	1:180:A:LEU:HD12	1:119:A:ILE:HG13	12	0.25
(1,736)	1:171:A:ALA:H	1:171:A:ALA:HB2	19	0.25
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB3	20	0.25
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	13	0.25
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	16	0.25
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	18	0.25
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD11	13	0.25
(1,689)	1:197:A:LEU:HD13	1:174:A:THR:HA	15	0.25
(1,676)	1:152:A:ILE:HA	1:173:A:LEU:HD23	4	0.25
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG21	5	0.25
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG21	11	0.25
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG23	8	0.25
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD13	20	0.25
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	4	0.25
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	5	0.25
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	7	0.25
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD12	14	0.25
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	18	0.25
(1,595)	1:188:A:ASN:H	1:187:A:GLU:HB3	13	0.25
(1,575)	1:170:A:ARG:HB3	1:169:A:VAL:HG12	10	0.25
(1,572)	1:153:A:GLU:HB3	1:139:A:MET:HG3	10	0.25
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	1	0.25
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	2	0.25
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	5	0.25
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	8	0.25
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	10	0.25
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	11	0.25
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	13	0.25
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	17	0.25
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	18	0.25
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD11	14	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD13	16	0.25
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	2	0.25
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	5	0.25
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	17	0.25
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	20	0.25
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG22	12	0.25
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	20	0.25
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	1	0.25
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	17	0.25
(1,415)	1:119:A:ILE:HB	1:117:A:MET:HG3	14	0.25
(1,379)	1:173:A:LEU:HB2	1:180:A:LEU:HD11	4	0.25
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	11	0.25
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	17	0.25
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	1	0.25
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	9	0.25
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	13	0.25
(1,345)	1:171:A:ALA:HA	1:169:A:VAL:HG13	3	0.25
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	5	0.25
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	14	0.25
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	19	0.25
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG21	5	0.25
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG23	6	0.25
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG23	8	0.25
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG23	16	0.25
(1,311)	1:114:A:GLU:HA	1:173:A:LEU:HD13	14	0.25
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	18	0.25
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	14	0.25
(1,304)	1:160:A:ASP:HA	1:159:A:PHE:HD2	18	0.25
(1,291)	1:130:A:ALA:HA	1:130:A:ALA:HB2	13	0.25
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG21	10	0.25
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	6	0.25
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	6	0.25
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	19	0.25
(1,217)	1:164:A:SER:H	1:161:A:PHE:HA	13	0.25
(1,211)	1:139:A:MET:HA	1:146:A:THR:HG22	11	0.25
(1,211)	1:139:A:MET:HA	1:146:A:THR:HG21	19	0.25
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	6	0.25
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	9	0.25
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	16	0.25
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	10	0.25
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	3	0.25
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	5	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	20	0.25
(1,152)	1:136:A:VAL:HA	1:136:A:VAL:HG12	10	0.25
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	15	0.25
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	18	0.25
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD13	18	0.25
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	1	0.25
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	3	0.25
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	10	0.25
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	11	0.25
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	14	0.25
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	11	0.25
(1,56)	1:164:A:SER:H	1:162:A:PRO:HA	12	0.25
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	8	0.25
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG23	4	0.25
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG23	11	0.25
(1,13)	1:194:A:PHE:HD2	1:194:A:PHE:HA	19	0.25
(2,258)	1:127:A:LEU:HD11	1:127:A:LEU:HD12	1	0.24
(2,258)	1:127:A:LEU:HD23	1:127:A:LEU:HD21	2	0.24
(2,258)	1:127:A:LEU:HD13	1:127:A:LEU:HD12	3	0.24
(2,258)	1:127:A:LEU:HD22	1:127:A:LEU:HD21	4	0.24
(2,258)	1:127:A:LEU:HD13	1:127:A:LEU:HD12	5	0.24
(2,258)	1:127:A:LEU:HD13	1:127:A:LEU:HD12	6	0.24
(2,258)	1:127:A:LEU:HD13	1:127:A:LEU:HD12	7	0.24
(2,258)	1:127:A:LEU:HD11	1:127:A:LEU:HD13	8	0.24
(2,258)	1:127:A:LEU:HD11	1:127:A:LEU:HD12	9	0.24
(2,258)	1:127:A:LEU:HD13	1:127:A:LEU:HD12	10	0.24
(2,258)	1:127:A:LEU:HD23	1:127:A:LEU:HD22	11	0.24
(2,258)	1:127:A:LEU:HD11	1:127:A:LEU:HD13	12	0.24
(2,258)	1:127:A:LEU:HD11	1:127:A:LEU:HD12	13	0.24
(2,258)	1:127:A:LEU:HD22	1:127:A:LEU:HD21	14	0.24
(2,258)	1:127:A:LEU:HD13	1:127:A:LEU:HD12	15	0.24
(2,258)	1:127:A:LEU:HD11	1:127:A:LEU:HD12	16	0.24
(2,258)	1:127:A:LEU:HD13	1:127:A:LEU:HD12	17	0.24
(2,258)	1:127:A:LEU:HD11	1:127:A:LEU:HD13	18	0.24
(2,258)	1:127:A:LEU:HD11	1:127:A:LEU:HD12	19	0.24
(2,258)	1:127:A:LEU:HD22	1:127:A:LEU:HD21	20	0.24
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	4	0.24
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG3	9	0.24
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG3	13	0.24
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG3	14	0.24
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	15	0.24
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	14	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,134)	1:166:A:GLU:HG3	1:159:A:PHE:HD2	7	0.24
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB3	12	0.24
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	6	0.24
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	15	0.24
(2,123)	1:123:A:GLU:HG2	1:119:A:ILE:HA	11	0.24
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	20	0.24
(2,109)	1:154:A:MET:HB3	1:173:A:LEU:HG	11	0.24
(2,93)	1:163:A:ASP:HB3	1:161:A:PHE:HD2	12	0.24
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	13	0.24
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	18	0.24
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	10	0.24
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	19	0.24
(2,74)	1:145:A:PHE:HB2	1:147:A:VAL:HG23	8	0.24
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	8	0.24
(2,46)	1:153:A:GLU:HA	1:186:A:MET:HG3	15	0.24
(2,14)	1:111:A:VAL:HA	1:110:A:MET:HG3	20	0.24
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG23	3	0.24
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	6	0.24
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG12	2	0.24
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG12	8	0.24
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG13	19	0.24
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG21	3	0.24
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG23	9	0.24
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	17	0.24
(1,1135)	1:152:A:ILE:H	1:175:A:PHE:HD2	14	0.24
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	2	0.24
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	5	0.24
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	6	0.24
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG23	2	0.24
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG13	1	0.24
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG12	2	0.24
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG11	11	0.24
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	2	0.24
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	7	0.24
(1,990)	1:139:A:MET:H	1:139:A:MET:HG3	10	0.24
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD21	20	0.24
(1,923)	1:183:A:ILE:HD12	1:114:A:GLU:H	13	0.24
(1,912)	1:152:A:ILE:HD12	1:173:A:LEU:HD21	2	0.24
(1,912)	1:152:A:ILE:HD12	1:173:A:LEU:HD22	4	0.24
(1,902)	1:152:A:ILE:HD11	1:133:A:TYR:HD2	19	0.24
(1,898)	1:119:A:ILE:HG21	1:119:A:ILE:HD12	15	0.24
(1,898)	1:119:A:ILE:HG22	1:119:A:ILE:HD13	17	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG23	14	0.24
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG23	14	0.24
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB3	6	0.24
(1,850)	1:183:A:ILE:HG21	1:114:A:GLU:H	5	0.24
(1,840)	1:181:A:ALA:HB2	1:175:A:PHE:HB2	11	0.24
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB1	3	0.24
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB3	5	0.24
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB3	6	0.24
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB2	8	0.24
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB3	10	0.24
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB1	17	0.24
(1,837)	1:181:A:ALA:HB3	1:175:A:PHE:HA	7	0.24
(1,837)	1:181:A:ALA:HB2	1:175:A:PHE:HA	10	0.24
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG22	4	0.24
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG22	19	0.24
(1,811)	1:169:A:VAL:HG23	1:169:A:VAL:H	16	0.24
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG23	10	0.24
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG22	13	0.24
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG23	19	0.24
(1,803)	1:136:A:VAL:HG21	1:134:A:ARG:H	2	0.24
(1,803)	1:136:A:VAL:HG23	1:134:A:ARG:H	5	0.24
(1,799)	1:182:A:THR:HG21	1:194:A:PHE:HA	4	0.24
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG23	7	0.24
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG21	12	0.24
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG22	4	0.24
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG21	8	0.24
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG22	18	0.24
(1,776)	1:146:A:THR:H	1:146:A:THR:HG21	2	0.24
(1,776)	1:146:A:THR:H	1:146:A:THR:HG21	10	0.24
(1,773)	1:128:A:LEU:HD22	1:127:A:LEU:HB3	1	0.24
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG21	9	0.24
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG22	7	0.24
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	4	0.24
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	8	0.24
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	12	0.24
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	14	0.24
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	15	0.24
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	17	0.24
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	20	0.24
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD11	7	0.24
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD11	8	0.24
(1,672)	1:173:A:LEU:HD12	1:183:A:ILE:HD11	7	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,672)	1:173:A:LEU:HD13	1:183:A:ILE:HD12	10	0.24
(1,653)	1:183:A:ILE:HG13	1:180:A:LEU:HD11	4	0.24
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG23	8	0.24
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG22	14	0.24
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG23	15	0.24
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG23	18	0.24
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG22	9	0.24
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD11	16	0.24
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	17	0.24
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	20	0.24
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	7	0.24
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	17	0.24
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG22	5	0.24
(1,577)	1:170:A:ARG:HB2	1:155:A:ILE:HD13	19	0.24
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD11	7	0.24
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	9	0.24
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	16	0.24
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD12	4	0.24
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD11	19	0.24
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD12	20	0.24
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	6	0.24
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	9	0.24
(1,476)	1:184:A:VAL:HB	1:189:A:ASN:H	18	0.24
(1,457)	1:187:A:GLU:HG3	1:186:A:MET:HB2	14	0.24
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	8	0.24
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	13	0.24
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	15	0.24
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	13	0.24
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD12	4	0.24
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD11	7	0.24
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD13	13	0.24
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD12	18	0.24
(1,418)	1:119:A:ILE:HB	1:127:A:LEU:HD12	9	0.24
(1,418)	1:119:A:ILE:HB	1:127:A:LEU:HD12	13	0.24
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	19	0.24
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	8	0.24
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	2	0.24
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	3	0.24
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	5	0.24
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	9	0.24
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	18	0.24
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	19	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	5	0.24
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	6	0.24
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	3	0.24
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	4	0.24
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	6	0.24
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	8	0.24
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	10	0.24
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	11	0.24
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	15	0.24
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	17	0.24
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	18	0.24
(1,319)	1:185:A:ASN:HA	1:186:A:MET:HB2	19	0.24
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	12	0.24
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	18	0.24
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	2	0.24
(1,303)	1:197:A:LEU:HA	1:176:A:ASP:HA	11	0.24
(1,303)	1:197:A:LEU:HA	1:176:A:ASP:HA	14	0.24
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG21	15	0.24
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	12	0.24
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	13	0.24
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	14	0.24
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	15	0.24
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	19	0.24
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	20	0.24
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	16	0.24
(1,167)	1:186:A:MET:H	1:187:A:GLU:HA	19	0.24
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	9	0.24
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	10	0.24
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	5	0.24
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	6	0.24
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	15	0.24
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	17	0.24
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	19	0.24
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	8	0.24
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	10	0.24
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	20	0.24
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG22	1	0.24
(1,34)	1:131:A:THR:HB	1:127:A:LEU:HB2	4	0.24
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	9	0.23
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	12	0.23
(2,246)	1:126:A:LYS:HG2	1:127:A:LEU:HD13	13	0.23
(2,227)	1:173:A:LEU:HD23	1:113:A:LEU:HD11	6	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	2	0.23
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	16	0.23
(2,188)	1:139:A:MET:HG3	1:146:A:THR:HA	9	0.23
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG3	8	0.23
(2,177)	1:168:A:GLN:HB3	1:158:A:PRO:HB3	6	0.23
(2,169)	1:153:A:GLU:HG3	1:186:A:MET:HG3	3	0.23
(2,152)	1:168:A:GLN:HG2	1:155:A:ILE:HG21	4	0.23
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	7	0.23
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	15	0.23
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	20	0.23
(2,135)	1:166:A:GLU:HG2	1:164:A:SER:HB3	6	0.23
(2,135)	1:166:A:GLU:HG2	1:164:A:SER:HB3	16	0.23
(2,134)	1:166:A:GLU:HG3	1:159:A:PHE:HD2	11	0.23
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	7	0.23
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	11	0.23
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB2	5	0.23
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	14	0.23
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	11	0.23
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	12	0.23
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	1	0.23
(2,74)	1:145:A:PHE:HB2	1:147:A:VAL:HG23	19	0.23
(2,66)	1:170:A:ARG:HD3	1:187:A:GLU:H	2	0.23
(2,51)	1:141:A:ARG:HA	1:141:A:ARG:HG2	14	0.23
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	5	0.23
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	10	0.23
(2,46)	1:153:A:GLU:HA	1:186:A:MET:HG3	13	0.23
(2,7)	1:164:A:SER:HB3	1:161:A:PHE:HB2	19	0.23
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG21	1	0.23
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG23	6	0.23
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG22	7	0.23
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG23	17	0.23
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	16	0.23
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG11	16	0.23
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG13	20	0.23
(1,1181)	1:154:A:MET:H	1:154:A:MET:HG3	18	0.23
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG22	13	0.23
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG22	19	0.23
(1,1156)	1:168:A:GLN:H	1:168:A:GLN:HB3	17	0.23
(1,1135)	1:152:A:ILE:H	1:175:A:PHE:HD2	7	0.23
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	4	0.23
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	18	0.23
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	12	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	16	0.23
(1,1026)	1:127:A:LEU:H	1:128:A:LEU:HD12	1	0.23
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD11	17	0.23
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	16	0.23
(1,1001)	1:165:A:LYS:H	1:164:A:SER:HB3	11	0.23
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG12	19	0.23
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	18	0.23
(1,977)	1:135:A:GLN:H	1:134:A:ARG:HB2	20	0.23
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD13	2	0.23
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD11	10	0.23
(1,898)	1:119:A:ILE:HG22	1:119:A:ILE:HD12	2	0.23
(1,898)	1:119:A:ILE:HG22	1:119:A:ILE:HD13	5	0.23
(1,898)	1:119:A:ILE:HG22	1:119:A:ILE:HD13	11	0.23
(1,898)	1:119:A:ILE:HG23	1:119:A:ILE:HD12	20	0.23
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG22	19	0.23
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG22	7	0.23
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG22	10	0.23
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB3	7	0.23
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB2	9	0.23
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB1	13	0.23
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB3	16	0.23
(1,840)	1:181:A:ALA:HB2	1:175:A:PHE:HB2	6	0.23
(1,840)	1:181:A:ALA:HB1	1:175:A:PHE:HB2	8	0.23
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB1	1	0.23
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB3	2	0.23
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB1	4	0.23
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB3	11	0.23
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB2	12	0.23
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB1	16	0.23
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB3	18	0.23
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB3	20	0.23
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG21	20	0.23
(1,811)	1:169:A:VAL:HG21	1:169:A:VAL:H	7	0.23
(1,811)	1:169:A:VAL:HG21	1:169:A:VAL:H	9	0.23
(1,811)	1:169:A:VAL:HG21	1:169:A:VAL:H	14	0.23
(1,803)	1:136:A:VAL:HG22	1:134:A:ARG:H	14	0.23
(1,803)	1:136:A:VAL:HG22	1:134:A:ARG:H	17	0.23
(1,802)	1:184:A:VAL:HG23	1:182:A:THR:HG21	14	0.23
(1,800)	1:182:A:THR:HG22	1:181:A:ALA:HB2	7	0.23
(1,800)	1:182:A:THR:HG22	1:181:A:ALA:HB3	14	0.23
(1,788)	1:139:A:MET:HB2	1:146:A:THR:HG22	6	0.23
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG23	14	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG22	9	0.23
(1,776)	1:146:A:THR:H	1:146:A:THR:HG21	15	0.23
(1,765)	1:114:A:GLU:HA	1:113:A:LEU:HD21	10	0.23
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG22	15	0.23
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG22	16	0.23
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG23	14	0.23
(1,748)	1:180:A:LEU:HD12	1:119:A:ILE:HG13	1	0.23
(1,748)	1:180:A:LEU:HD11	1:119:A:ILE:HG13	3	0.23
(1,736)	1:171:A:ALA:H	1:171:A:ALA:HB1	15	0.23
(1,733)	1:186:A:MET:H	1:171:A:ALA:HB1	8	0.23
(1,724)	1:124:A:MET:HA	1:127:A:LEU:HD13	3	0.23
(1,724)	1:124:A:MET:HA	1:127:A:LEU:HD11	18	0.23
(1,718)	1:160:A:ASP:HB2	1:165:A:LYS:HG3	16	0.23
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	2	0.23
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	5	0.23
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	9	0.23
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	10	0.23
(1,689)	1:197:A:LEU:HD12	1:174:A:THR:HA	12	0.23
(1,672)	1:173:A:LEU:HD12	1:183:A:ILE:HD11	13	0.23
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	17	0.23
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG21	1	0.23
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG23	6	0.23
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG23	7	0.23
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG23	17	0.23
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG21	13	0.23
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG22	14	0.23
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD12	5	0.23
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD11	15	0.23
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD12	18	0.23
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	2	0.23
(1,625)	1:119:A:ILE:HG13	1:117:A:MET:HG3	7	0.23
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD13	20	0.23
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG21	1	0.23
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG22	2	0.23
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG21	3	0.23
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG23	8	0.23
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG22	11	0.23
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG22	17	0.23
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG23	19	0.23
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	20	0.23
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD12	3	0.23
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD13	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD13	9	0.23
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	3	0.23
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	11	0.23
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	1	0.23
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	7	0.23
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	9	0.23
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	10	0.23
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	12	0.23
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	13	0.23
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	14	0.23
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	15	0.23
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	16	0.23
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	19	0.23
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG11	10	0.23
(1,503)	1:139:A:MET:HB2	1:145:A:PHE:HB2	8	0.23
(1,499)	1:135:A:GLN:HG3	1:136:A:VAL:HA	6	0.23
(1,499)	1:135:A:GLN:HG3	1:136:A:VAL:HA	12	0.23
(1,496)	1:117:A:MET:HB3	1:118:A:THR:H	5	0.23
(1,439)	1:189:A:ASN:HB2	1:184:A:VAL:HG12	10	0.23
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	3	0.23
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	15	0.23
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD13	14	0.23
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD11	15	0.23
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD11	17	0.23
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	17	0.23
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	1	0.23
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	7	0.23
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	13	0.23
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	2	0.23
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	9	0.23
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	20	0.23
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	19	0.23
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	4	0.23
(1,361)	1:167:A:GLY:HA2	1:158:A:PRO:HB2	7	0.23
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	6	0.23
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	1	0.23
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	9	0.23
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	12	0.23
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	13	0.23
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG22	9	0.23
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG22	11	0.23
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG21	15	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	2	0.23
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	4	0.23
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	5	0.23
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	15	0.23
(1,305)	1:164:A:SER:H	1:163:A:ASP:HA	20	0.23
(1,304)	1:160:A:ASP:HA	1:159:A:PHE:HD2	16	0.23
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	10	0.23
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	3	0.23
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	6	0.23
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	18	0.23
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	11	0.23
(1,211)	1:139:A:MET:HA	1:146:A:THR:HG23	1	0.23
(1,210)	1:159:A:PHE:HD2	1:159:A:PHE:HA	16	0.23
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	2	0.23
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	3	0.23
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	4	0.23
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	8	0.23
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	12	0.23
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	18	0.23
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	16	0.23
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	1	0.23
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	1	0.23
(1,145)	1:123:A:GLU:HA	1:120:A:SER:H	1	0.23
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	5	0.23
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	13	0.23
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	16	0.23
(1,66)	1:158:A:PRO:HA	1:159:A:PHE:HD1	2	0.23
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	2	0.23
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	15	0.23
(1,58)	1:162:A:PRO:HA	1:162:A:PRO:HD3	4	0.23
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	2	0.23
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	5	0.23
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	6	0.23
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	12	0.23
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	14	0.23
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	4	0.23
(1,40)	1:118:A:THR:HB	1:119:A:ILE:HG23	5	0.23
(1,6)	1:133:A:TYR:HD1	1:128:A:LEU:HG	3	0.23
(1,6)	1:133:A:TYR:HD1	1:128:A:LEU:HG	18	0.23
(2,274)	1:140:A:THR:HG21	1:138:A:LYS:HE2	16	0.22
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG12	15	0.22
(2,269)	1:113:A:LEU:HD13	1:113:A:LEU:HB2	12	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,260)	1:125:A:VAL:HG23	1:128:A:LEU:HD13	2	0.22
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	2	0.22
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	6	0.22
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	13	0.22
(2,225)	1:173:A:LEU:HD22	1:173:A:LEU:H	18	0.22
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	17	0.22
(2,188)	1:139:A:MET:HG2	1:146:A:THR:HA	19	0.22
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG3	12	0.22
(2,177)	1:168:A:GLN:HB2	1:158:A:PRO:HB3	1	0.22
(2,172)	1:110:A:MET:HB3	1:110:A:MET:H	13	0.22
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	6	0.22
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	9	0.22
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	12	0.22
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	16	0.22
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	2	0.22
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	3	0.22
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	4	0.22
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	9	0.22
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	10	0.22
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	11	0.22
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	13	0.22
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	18	0.22
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	8	0.22
(2,139)	1:137:A:SER:HB3	1:138:A:LYS:HB3	11	0.22
(2,135)	1:166:A:GLU:HG2	1:164:A:SER:HB3	5	0.22
(2,135)	1:166:A:GLU:HG2	1:164:A:SER:HB3	10	0.22
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB2	4	0.22
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	14	0.22
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	20	0.22
(2,122)	1:123:A:GLU:HG2	1:127:A:LEU:HD12	14	0.22
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB2	13	0.22
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	18	0.22
(2,88)	1:165:A:LYS:HE3	1:164:A:SER:H	12	0.22
(2,88)	1:165:A:LYS:HE3	1:164:A:SER:H	17	0.22
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	16	0.22
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	4	0.22
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	6	0.22
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	8	0.22
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	12	0.22
(2,74)	1:145:A:PHE:HB2	1:147:A:VAL:HG21	7	0.22
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	3	0.22
(2,71)	1:141:A:ARG:HA	1:141:A:ARG:HD3	20	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,64)	1:170:A:ARG:HD3	1:186:A:MET:HG2	15	0.22
(2,56)	1:197:A:LEU:HB2	1:176:A:ASP:HA	15	0.22
(2,51)	1:141:A:ARG:HA	1:141:A:ARG:HG2	12	0.22
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	11	0.22
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	16	0.22
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD11	14	0.22
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	5	0.22
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	11	0.22
(2,14)	1:111:A:VAL:HA	1:110:A:MET:HG3	1	0.22
(2,14)	1:111:A:VAL:HA	1:110:A:MET:HG3	8	0.22
(2,14)	1:111:A:VAL:HA	1:110:A:MET:HG3	11	0.22
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG21	11	0.22
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG21	20	0.22
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	8	0.22
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	3	0.22
(1,1210)	1:189:A:ASN:H	1:187:A:GLU:HG2	5	0.22
(1,1200)	1:140:A:THR:H	1:155:A:ILE:HD11	2	0.22
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	11	0.22
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	16	0.22
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG12	3	0.22
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG12	4	0.22
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG12	5	0.22
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD1	4	0.22
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD1	14	0.22
(1,1156)	1:168:A:GLN:H	1:168:A:GLN:HB3	9	0.22
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	2	0.22
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD12	1	0.22
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	2	0.22
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	3	0.22
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	17	0.22
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	11	0.22
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	17	0.22
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	2	0.22
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	3	0.22
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	7	0.22
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	9	0.22
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	14	0.22
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	15	0.22
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	17	0.22
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	20	0.22
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG21	16	0.22
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	13	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1001)	1:165:A:LYS:H	1:164:A:SER:HB3	15	0.22
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	1	0.22
(1,977)	1:135:A:GLN:H	1:134:A:ARG:HB2	17	0.22
(1,932)	1:119:A:ILE:HD13	1:117:A:MET:HG3	6	0.22
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD12	7	0.22
(1,923)	1:183:A:ILE:HD13	1:114:A:GLU:H	17	0.22
(1,921)	1:180:A:LEU:HD11	1:183:A:ILE:HD13	8	0.22
(1,902)	1:152:A:ILE:HD11	1:133:A:TYR:HD2	14	0.22
(1,898)	1:119:A:ILE:HG21	1:119:A:ILE:HD13	6	0.22
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG22	2	0.22
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB1	1	0.22
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB2	12	0.22
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB3	14	0.22
(1,840)	1:181:A:ALA:HB2	1:175:A:PHE:HB2	2	0.22
(1,840)	1:181:A:ALA:HB3	1:175:A:PHE:HB2	3	0.22
(1,840)	1:181:A:ALA:HB3	1:175:A:PHE:HB2	13	0.22
(1,840)	1:181:A:ALA:HB3	1:175:A:PHE:HB2	16	0.22
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB2	14	0.22
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG13	18	0.22
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG21	5	0.22
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG21	12	0.22
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG22	17	0.22
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG23	4	0.22
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG22	15	0.22
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG22	16	0.22
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG22	5	0.22
(1,803)	1:136:A:VAL:HG23	1:134:A:ARG:H	4	0.22
(1,800)	1:182:A:THR:HG23	1:181:A:ALA:HB2	3	0.22
(1,800)	1:182:A:THR:HG23	1:181:A:ALA:HB2	17	0.22
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG23	9	0.22
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG21	20	0.22
(1,776)	1:146:A:THR:H	1:146:A:THR:HG23	7	0.22
(1,776)	1:146:A:THR:H	1:146:A:THR:HG21	12	0.22
(1,776)	1:146:A:THR:H	1:146:A:THR:HG23	20	0.22
(1,775)	1:184:A:VAL:HG23	1:194:A:PHE:H	9	0.22
(1,753)	1:131:A:THR:HB	1:131:A:THR:HG21	3	0.22
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	7	0.22
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	11	0.22
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	19	0.22
(1,686)	1:197:A:LEU:HD11	1:197:A:LEU:HA	5	0.22
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	10	0.22
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	15	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	16	0.22
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	19	0.22
(1,653)	1:183:A:ILE:HG13	1:180:A:LEU:HD13	17	0.22
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG23	18	0.22
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	16	0.22
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG23	20	0.22
(1,610)	1:119:A:ILE:HG12	1:180:A:LEU:HD23	15	0.22
(1,573)	1:139:A:MET:HG2	1:155:A:ILE:HD12	8	0.22
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD12	8	0.22
(1,522)	1:134:A:ARG:HA	1:134:A:ARG:HB2	8	0.22
(1,519)	1:144:A:GLU:HB2	1:136:A:VAL:HG13	13	0.22
(1,499)	1:135:A:GLN:HG3	1:136:A:VAL:HA	1	0.22
(1,477)	1:167:A:GLY:H	1:166:A:GLU:HG3	14	0.22
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG23	8	0.22
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG21	10	0.22
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG21	16	0.22
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	4	0.22
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	7	0.22
(1,418)	1:119:A:ILE:HB	1:127:A:LEU:HD13	10	0.22
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	14	0.22
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	18	0.22
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	5	0.22
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	6	0.22
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	14	0.22
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	18	0.22
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	5	0.22
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	8	0.22
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	14	0.22
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	16	0.22
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	20	0.22
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	3	0.22
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	14	0.22
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	2	0.22
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	20	0.22
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG21	17	0.22
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG23	20	0.22
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	17	0.22
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	19	0.22
(1,303)	1:197:A:LEU:HA	1:176:A:ASP:HA	6	0.22
(1,303)	1:197:A:LEU:HA	1:176:A:ASP:HA	19	0.22
(1,303)	1:197:A:LEU:HA	1:176:A:ASP:HA	20	0.22
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	6	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	9	0.22
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	2	0.22
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	13	0.22
(1,247)	1:170:A:ARG:HA	1:155:A:ILE:HD13	4	0.22
(1,247)	1:170:A:ARG:HA	1:155:A:ILE:HD13	6	0.22
(1,247)	1:170:A:ARG:HA	1:155:A:ILE:HD11	13	0.22
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	5	0.22
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	9	0.22
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	20	0.22
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	7	0.22
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	16	0.22
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	3	0.22
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	4	0.22
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	9	0.22
(1,211)	1:139:A:MET:HA	1:146:A:THR:HG22	16	0.22
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	1	0.22
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	7	0.22
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	10	0.22
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	17	0.22
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	1	0.22
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	14	0.22
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	4	0.22
(1,148)	1:136:A:VAL:HA	1:135:A:GLN:HG2	2	0.22
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	10	0.22
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	16	0.22
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	11	0.22
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	7	0.22
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	9	0.22
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	18	0.22
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	5	0.22
(1,34)	1:131:A:THR:HB	1:127:A:LEU:HB2	18	0.22
(1,6)	1:133:A:TYR:HD1	1:128:A:LEU:HG	11	0.22
(2,274)	1:140:A:THR:HG22	1:138:A:LYS:HE2	5	0.21
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	7	0.21
(2,230)	1:144:A:GLU:H	1:141:A:ARG:HG3	10	0.21
(2,227)	1:173:A:LEU:HD23	1:113:A:LEU:HD13	1	0.21
(2,217)	1:162:A:PRO:HA	1:162:A:PRO:HG3	16	0.21
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	14	0.21
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	4	0.21
(2,188)	1:139:A:MET:HG3	1:146:A:THR:HA	4	0.21
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG3	7	0.21
(2,172)	1:110:A:MET:HB3	1:110:A:MET:H	3	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	12	0.21
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	15	0.21
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	1	0.21
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	10	0.21
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	13	0.21
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	19	0.21
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	5	0.21
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	6	0.21
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	8	0.21
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	14	0.21
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	19	0.21
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	5	0.21
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	13	0.21
(2,113)	1:122:A:ASN:HB2	1:123:A:GLU:H	19	0.21
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	6	0.21
(2,109)	1:154:A:MET:HB3	1:173:A:LEU:HG	18	0.21
(2,100)	1:150:A:ASN:HB3	1:197:A:LEU:HB3	1	0.21
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	3	0.21
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	5	0.21
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	2	0.21
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	10	0.21
(2,61)	1:170:A:ARG:HD2	1:169:A:VAL:HG12	10	0.21
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD13	20	0.21
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	6	0.21
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	7	0.21
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	14	0.21
(2,14)	1:111:A:VAL:HA	1:110:A:MET:HG3	6	0.21
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG21	2	0.21
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG23	4	0.21
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG22	16	0.21
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	13	0.21
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	16	0.21
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG13	9	0.21
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG13	14	0.21
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG11	15	0.21
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG21	7	0.21
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG23	8	0.21
(1,1165)	1:117:A:MET:H	1:180:A:LEU:HD21	11	0.21
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	9	0.21
(1,1089)	1:138:A:LYS:H	1:146:A:THR:HG21	7	0.21
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	2	0.21
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	10	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1076)	1:170:A:ARG:H	1:169:A:VAL:H	15	0.21
(1,1045)	1:130:A:ALA:H	1:129:A:GLU:HG2	3	0.21
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	13	0.21
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	18	0.21
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	7	0.21
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG22	6	0.21
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	15	0.21
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	11	0.21
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	12	0.21
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	20	0.21
(1,1001)	1:165:A:LYS:H	1:164:A:SER:HB3	1	0.21
(1,1001)	1:165:A:LYS:H	1:164:A:SER:HB3	3	0.21
(1,1001)	1:165:A:LYS:H	1:164:A:SER:HB3	17	0.21
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	12	0.21
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	17	0.21
(1,977)	1:135:A:GLN:H	1:134:A:ARG:HB2	2	0.21
(1,977)	1:135:A:GLN:H	1:134:A:ARG:HB2	4	0.21
(1,915)	1:182:A:THR:HA	1:183:A:ILE:HD11	19	0.21
(1,912)	1:152:A:ILE:HD13	1:173:A:LEU:HD21	20	0.21
(1,902)	1:152:A:ILE:HD13	1:133:A:TYR:HD2	18	0.21
(1,898)	1:119:A:ILE:HG21	1:119:A:ILE:HD13	1	0.21
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG21	13	0.21
(1,889)	1:119:A:ILE:H	1:119:A:ILE:HG22	13	0.21
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG22	8	0.21
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG21	9	0.21
(1,865)	1:183:A:ILE:HG23	1:192:A:PHE:HE1	14	0.21
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB1	3	0.21
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB3	10	0.21
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB1	15	0.21
(1,838)	1:181:A:ALA:HA	1:181:A:ALA:HB1	9	0.21
(1,837)	1:181:A:ALA:HB3	1:175:A:PHE:HA	15	0.21
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB3	19	0.21
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG21	11	0.21
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG21	20	0.21
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG22	14	0.21
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG22	16	0.21
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG21	11	0.21
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG22	17	0.21
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG22	4	0.21
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG23	18	0.21
(1,803)	1:136:A:VAL:HG21	1:134:A:ARG:H	11	0.21
(1,788)	1:139:A:MET:HB2	1:146:A:THR:HG23	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,785)	1:145:A:PHE:HA	1:146:A:THR:HG23	14	0.21
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG21	12	0.21
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG22	13	0.21
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG21	20	0.21
(1,776)	1:146:A:THR:H	1:146:A:THR:HG23	5	0.21
(1,776)	1:146:A:THR:H	1:146:A:THR:HG21	8	0.21
(1,769)	1:128:A:LEU:HD22	1:124:A:MET:HA	2	0.21
(1,748)	1:180:A:LEU:HD13	1:119:A:ILE:HG13	16	0.21
(1,699)	1:126:A:LYS:HD2	1:126:A:LYS:HG2	6	0.21
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	1	0.21
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	7	0.21
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	20	0.21
(1,652)	1:183:A:ILE:HG13	1:180:A:LEU:HG	13	0.21
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG23	16	0.21
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD12	1	0.21
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD12	5	0.21
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD11	12	0.21
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG22	4	0.21
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG21	6	0.21
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG21	9	0.21
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG21	10	0.21
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG22	12	0.21
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG23	16	0.21
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	8	0.21
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	19	0.21
(1,560)	1:163:A:ASP:H	1:162:A:PRO:HB3	16	0.21
(1,533)	1:158:A:PRO:HB3	1:169:A:VAL:H	10	0.21
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD12	2	0.21
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	13	0.21
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	1	0.21
(1,499)	1:135:A:GLN:HG3	1:136:A:VAL:HA	8	0.21
(1,496)	1:117:A:MET:HB3	1:118:A:THR:H	3	0.21
(1,477)	1:167:A:GLY:H	1:166:A:GLU:HG3	16	0.21
(1,466)	1:187:A:GLU:HG2	1:186:A:MET:H	19	0.21
(1,454)	1:130:A:ALA:H	1:129:A:GLU:HG3	5	0.21
(1,454)	1:130:A:ALA:H	1:129:A:GLU:HG3	20	0.21
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	5	0.21
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	14	0.21
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	5	0.21
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	8	0.21
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD11	20	0.21
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	3	0.21
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	7	0.21
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	8	0.21
(1,387)	1:175:A:PHE:HB2	1:180:A:LEU:HA	8	0.21
(1,367)	1:141:A:ARG:HD2	1:141:A:ARG:HB3	12	0.21
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	2	0.21
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	11	0.21
(1,366)	1:134:A:ARG:HD2	1:133:A:TYR:H	17	0.21
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	3	0.21
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	5	0.21
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	10	0.21
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	12	0.21
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	17	0.21
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	7	0.21
(1,334)	1:161:A:PHE:H	1:162:A:PRO:HD3	16	0.21
(1,312)	1:163:A:ASP:HA	1:164:A:SER:HB2	16	0.21
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	20	0.21
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	5	0.21
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	11	0.21
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	14	0.21
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	17	0.21
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	20	0.21
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	20	0.21
(1,238)	1:135:A:GLN:HA	1:136:A:VAL:HA	1	0.21
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	11	0.21
(1,236)	1:133:A:TYR:HD1	1:135:A:GLN:HA	15	0.21
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	1	0.21
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	5	0.21
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	2	0.21
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	5	0.21
(1,211)	1:139:A:MET:HA	1:146:A:THR:HG21	15	0.21
(1,211)	1:139:A:MET:HA	1:146:A:THR:HG23	20	0.21
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	3	0.21
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	5	0.21
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	6	0.21
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	18	0.21
(1,168)	1:187:A:GLU:HA	1:189:A:ASN:H	9	0.21
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	6	0.21
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	7	0.21
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	10	0.21
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	14	0.21
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	19	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:174:A:THR:HA	1:175:A:PHE:HE2	7	0.21
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD11	20	0.21
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	3	0.21
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	5	0.21
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	6	0.21
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	15	0.21
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	7	0.21
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	9	0.21
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	13	0.21
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	18	0.21
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	11	0.21
(1,35)	1:131:A:THR:HB	1:133:A:TYR:HD2	2	0.21
(1,34)	1:131:A:THR:HB	1:127:A:LEU:HB2	1	0.21
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	1	0.2
(2,247)	1:164:A:SER:HB3	1:165:A:LYS:HG2	16	0.2
(2,208)	1:126:A:LYS:HD2	1:122:A:ASN:HB3	18	0.2
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	10	0.2
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	14	0.2
(2,188)	1:139:A:MET:HG3	1:146:A:THR:HA	5	0.2
(2,183)	1:121:A:LYS:HB3	1:122:A:ASN:HB2	4	0.2
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	5	0.2
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	8	0.2
(2,148)	1:134:A:ARG:HB3	1:134:A:ARG:HG3	14	0.2
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	12	0.2
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	17	0.2
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB3	18	0.2
(2,128)	1:153:A:GLU:HG2	1:170:A:ARG:HB3	19	0.2
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	2	0.2
(2,113)	1:122:A:ASN:HB2	1:123:A:GLU:H	15	0.2
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	9	0.2
(2,109)	1:154:A:MET:HB3	1:173:A:LEU:HG	15	0.2
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB3	6	0.2
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	13	0.2
(2,88)	1:165:A:LYS:HE3	1:164:A:SER:H	1	0.2
(2,84)	1:165:A:LYS:HE2	1:160:A:ASP:HA	1	0.2
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	9	0.2
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	6	0.2
(2,74)	1:145:A:PHE:HB2	1:147:A:VAL:HG22	3	0.2
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	18	0.2
(2,66)	1:170:A:ARG:HD2	1:187:A:GLU:H	19	0.2
(2,63)	1:170:A:ARG:HD3	1:171:A:ALA:H	7	0.2
(2,51)	1:141:A:ARG:HA	1:141:A:ARG:HG2	11	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	6	0.2
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	15	0.2
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	1	0.2
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	2	0.2
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	12	0.2
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	15	0.2
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	20	0.2
(2,9)	1:164:A:SER:HB2	1:161:A:PHE:HD1	4	0.2
(2,2)	1:140:A:THR:HB	1:138:A:LYS:HE2	10	0.2
(1,1265)	1:110:A:MET:H	1:111:A:VAL:H	17	0.2
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	14	0.2
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	11	0.2
(1,1200)	1:140:A:THR:H	1:155:A:ILE:HD11	5	0.2
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	17	0.2
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	19	0.2
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG12	1	0.2
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG13	6	0.2
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG12	11	0.2
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG11	17	0.2
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG11	18	0.2
(1,1167)	1:159:A:PHE:H	1:159:A:PHE:HB2	5	0.2
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	4	0.2
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	13	0.2
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	20	0.2
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	9	0.2
(1,1076)	1:170:A:ARG:H	1:169:A:VAL:H	10	0.2
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	11	0.2
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	10	0.2
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	13	0.2
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG21	8	0.2
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	1	0.2
(1,1001)	1:165:A:LYS:H	1:164:A:SER:HB3	12	0.2
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG11	15	0.2
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	11	0.2
(1,977)	1:135:A:GLN:H	1:134:A:ARG:HB2	3	0.2
(1,977)	1:135:A:GLN:H	1:134:A:ARG:HB2	5	0.2
(1,932)	1:119:A:ILE:HD11	1:117:A:MET:HG3	7	0.2
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD11	17	0.2
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD13	20	0.2
(1,923)	1:183:A:ILE:HD12	1:114:A:GLU:H	16	0.2
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG22	12	0.2
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG21	17	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB2	5	0.2
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB1	11	0.2
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB3	18	0.2
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB3	20	0.2
(1,840)	1:181:A:ALA:HB3	1:175:A:PHE:HB2	1	0.2
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB1	5	0.2
(1,828)	1:189:A:ASN:H	1:184:A:VAL:HG11	9	0.2
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG23	13	0.2
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG22	15	0.2
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG21	6	0.2
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG23	13	0.2
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG21	2	0.2
(1,806)	1:135:A:GLN:HA	1:136:A:VAL:HG22	20	0.2
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG21	14	0.2
(1,802)	1:184:A:VAL:HG22	1:182:A:THR:HG23	7	0.2
(1,802)	1:184:A:VAL:HG22	1:182:A:THR:HG22	15	0.2
(1,800)	1:182:A:THR:HG21	1:181:A:ALA:HB1	5	0.2
(1,800)	1:182:A:THR:HG21	1:181:A:ALA:HB1	11	0.2
(1,788)	1:139:A:MET:HB2	1:146:A:THR:HG22	18	0.2
(1,786)	1:146:A:THR:HA	1:146:A:THR:HG23	1	0.2
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG23	16	0.2
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG23	10	0.2
(1,769)	1:128:A:LEU:HD22	1:124:A:MET:HA	1	0.2
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG22	1	0.2
(1,750)	1:130:A:ALA:H	1:131:A:THR:HG22	19	0.2
(1,737)	1:171:A:ALA:HB2	1:192:A:PHE:HE1	8	0.2
(1,724)	1:124:A:MET:HA	1:127:A:LEU:HD13	13	0.2
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD11	19	0.2
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	1	0.2
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG22	20	0.2
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG21	1	0.2
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG22	4	0.2
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG21	5	0.2
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD12	2	0.2
(1,621)	1:173:A:LEU:HG	1:183:A:ILE:HA	4	0.2
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG22	13	0.2
(1,617)	1:119:A:ILE:HG13	1:119:A:ILE:HG22	18	0.2
(1,612)	1:173:A:LEU:HG	1:154:A:MET:H	10	0.2
(1,610)	1:119:A:ILE:HG12	1:180:A:LEU:HD22	7	0.2
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD13	11	0.2
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD13	13	0.2
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD13	11	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	16	0.2
(1,519)	1:144:A:GLU:HB2	1:136:A:VAL:HG13	1	0.2
(1,519)	1:144:A:GLU:HB2	1:136:A:VAL:HG12	14	0.2
(1,499)	1:135:A:GLN:HG3	1:136:A:VAL:HA	7	0.2
(1,499)	1:135:A:GLN:HG3	1:136:A:VAL:HA	14	0.2
(1,494)	1:117:A:MET:HB2	1:180:A:LEU:HB3	14	0.2
(1,480)	1:170:A:ARG:H	1:169:A:VAL:HB	10	0.2
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG22	19	0.2
(1,454)	1:130:A:ALA:H	1:129:A:GLU:HG3	2	0.2
(1,454)	1:130:A:ALA:H	1:129:A:GLU:HG3	3	0.2
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	11	0.2
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	17	0.2
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	18	0.2
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	3	0.2
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD11	6	0.2
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	6	0.2
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	2	0.2
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	13	0.2
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	16	0.2
(1,364)	1:145:A:PHE:H	1:134:A:ARG:HD3	3	0.2
(1,364)	1:145:A:PHE:H	1:134:A:ARG:HD3	17	0.2
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	4	0.2
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	8	0.2
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	14	0.2
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	16	0.2
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG22	3	0.2
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG22	18	0.2
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	14	0.2
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	19	0.2
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	3	0.2
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	5	0.2
(1,213)	1:167:A:GLY:H	1:166:A:GLU:HA	4	0.2
(1,213)	1:167:A:GLY:H	1:166:A:GLU:HA	6	0.2
(1,211)	1:139:A:MET:HA	1:146:A:THR:HG21	2	0.2
(1,194)	1:145:A:PHE:HA	1:136:A:VAL:HG13	20	0.2
(1,184)	1:131:A:THR:H	1:132:A:GLN:HA	5	0.2
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	8	0.2
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	19	0.2
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	20	0.2
(1,164)	1:123:A:GLU:HA	1:127:A:LEU:HD12	12	0.2
(1,164)	1:123:A:GLU:HA	1:127:A:LEU:HD12	14	0.2
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	2	0.2
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	3	0.2
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	8	0.2
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	9	0.2
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	12	0.2
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	13	0.2
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	15	0.2
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	17	0.2
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	17	0.2
(1,117)	1:137:A:SER:HA	1:138:A:LYS:HG2	4	0.2
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	11	0.2
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	17	0.2
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	1	0.2
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	14	0.2
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	20	0.2
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	3	0.2
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	15	0.2
(1,36)	1:118:A:THR:HB	1:117:A:MET:HG3	5	0.2
(1,34)	1:131:A:THR:HB	1:127:A:LEU:HB2	11	0.2
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	10	0.2
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	18	0.19
(2,213)	1:162:A:PRO:HG2	1:161:A:PHE:HD2	6	0.19
(2,208)	1:126:A:LYS:HD2	1:122:A:ASN:HB3	12	0.19
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	5	0.19
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	20	0.19
(2,202)	1:168:A:GLN:HB2	1:155:A:ILE:HD11	20	0.19
(2,198)	1:154:A:MET:HG2	1:154:A:MET:H	19	0.19
(2,173)	1:110:A:MET:HB2	1:111:A:VAL:HA	19	0.19
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	14	0.19
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	1	0.19
(2,135)	1:166:A:GLU:HG2	1:164:A:SER:HB3	8	0.19
(2,135)	1:166:A:GLU:HG2	1:164:A:SER:HB3	11	0.19
(2,135)	1:166:A:GLU:HG2	1:164:A:SER:HB3	13	0.19
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	17	0.19
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	18	0.19
(2,114)	1:122:A:ASN:HB3	1:125:A:VAL:HG12	15	0.19
(2,113)	1:122:A:ASN:HB2	1:123:A:GLU:H	13	0.19
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	18	0.19
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	20	0.19
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	2	0.19
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	10	0.19
(2,73)	1:144:A:GLU:HA	1:134:A:ARG:HD3	17	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	1	0.19
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	16	0.19
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	19	0.19
(2,71)	1:141:A:ARG:HA	1:141:A:ARG:HD3	3	0.19
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	5	0.19
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	6	0.19
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	16	0.19
(2,66)	1:170:A:ARG:HD2	1:187:A:GLU:H	7	0.19
(2,66)	1:170:A:ARG:HD3	1:187:A:GLU:H	12	0.19
(2,53)	1:177:A:GLY:HA2	1:178:A:ASP:HB2	13	0.19
(2,49)	1:178:A:ASP:HA	1:178:A:ASP:HB2	12	0.19
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	4	0.19
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	5	0.19
(2,14)	1:111:A:VAL:HA	1:110:A:MET:HG3	2	0.19
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG22	14	0.19
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG22	7	0.19
(1,1254)	1:167:A:GLY:H	1:166:A:GLU:HB3	18	0.19
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	9	0.19
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	15	0.19
(1,1200)	1:140:A:THR:H	1:155:A:ILE:HD11	1	0.19
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	12	0.19
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	14	0.19
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	15	0.19
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	20	0.19
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG11	7	0.19
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG12	13	0.19
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	4	0.19
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	10	0.19
(1,1128)	1:110:A:MET:H	1:111:A:VAL:HG11	17	0.19
(1,1111)	1:147:A:VAL:H	1:146:A:THR:HB	3	0.19
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD11	8	0.19
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	7	0.19
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	10	0.19
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	13	0.19
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	4	0.19
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	11	0.19
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	17	0.19
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	18	0.19
(1,1070)	1:161:A:PHE:H	1:160:A:ASP:HB3	14	0.19
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	4	0.19
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	5	0.19
(1,1040)	1:130:A:ALA:H	1:127:A:LEU:HG	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD13	5	0.19
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD11	15	0.19
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG23	4	0.19
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG23	17	0.19
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG23	18	0.19
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	18	0.19
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	20	0.19
(1,980)	1:139:A:MET:H	1:140:A:THR:H	16	0.19
(1,977)	1:135:A:GLN:H	1:134:A:ARG:HB2	15	0.19
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB3	18	0.19
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD13	12	0.19
(1,932)	1:119:A:ILE:HD12	1:117:A:MET:HG3	4	0.19
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD11	13	0.19
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD12	19	0.19
(1,921)	1:180:A:LEU:HD12	1:183:A:ILE:HD13	5	0.19
(1,921)	1:180:A:LEU:HD11	1:183:A:ILE:HD11	18	0.19
(1,912)	1:152:A:ILE:HD13	1:173:A:LEU:HD22	5	0.19
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG23	1	0.19
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG21	4	0.19
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG21	5	0.19
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG21	18	0.19
(1,891)	1:119:A:ILE:HA	1:119:A:ILE:HG22	3	0.19
(1,889)	1:119:A:ILE:H	1:119:A:ILE:HG23	12	0.19
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG22	20	0.19
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB1	2	0.19
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB2	4	0.19
(1,851)	1:130:A:ALA:H	1:130:A:ALA:HB3	17	0.19
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG21	10	0.19
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG21	12	0.19
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG22	17	0.19
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG22	7	0.19
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG21	10	0.19
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG21	9	0.19
(1,802)	1:184:A:VAL:HG23	1:182:A:THR:HG22	17	0.19
(1,799)	1:182:A:THR:HG23	1:194:A:PHE:HA	14	0.19
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG22	8	0.19
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG22	19	0.19
(1,748)	1:180:A:LEU:HD11	1:119:A:ILE:HG13	9	0.19
(1,727)	1:197:A:LEU:HA	1:197:A:LEU:HD23	12	0.19
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	4	0.19
(1,680)	1:140:A:THR:H	1:141:A:ARG:HG3	17	0.19
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	7	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	12	0.19
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG22	3	0.19
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG21	13	0.19
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG23	2	0.19
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG23	6	0.19
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG23	7	0.19
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	15	0.19
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	18	0.19
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	6	0.19
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	16	0.19
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD11	2	0.19
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD13	10	0.19
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	15	0.19
(1,503)	1:139:A:MET:HB2	1:145:A:PHE:HB2	13	0.19
(1,499)	1:135:A:GLN:HG3	1:136:A:VAL:HA	18	0.19
(1,488)	1:117:A:MET:HB2	1:114:A:GLU:H	4	0.19
(1,477)	1:167:A:GLY:H	1:166:A:GLU:HG3	10	0.19
(1,477)	1:167:A:GLY:H	1:166:A:GLU:HG3	11	0.19
(1,477)	1:167:A:GLY:H	1:166:A:GLU:HG3	18	0.19
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	12	0.19
(1,454)	1:130:A:ALA:H	1:129:A:GLU:HG3	11	0.19
(1,454)	1:130:A:ALA:H	1:129:A:GLU:HG3	18	0.19
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD13	11	0.19
(1,418)	1:119:A:ILE:HB	1:127:A:LEU:HD11	8	0.19
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	17	0.19
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	1	0.19
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	9	0.19
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	11	0.19
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	15	0.19
(1,322)	1:185:A:ASN:HA	1:169:A:VAL:HG13	3	0.19
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG21	2	0.19
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG21	14	0.19
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	2	0.19
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	11	0.19
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	10	0.19
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	11	0.19
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	12	0.19
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	17	0.19
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	19	0.19
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	12	0.19
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	14	0.19
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	17	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	18	0.19
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	7	0.19
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	10	0.19
(1,213)	1:167:A:GLY:H	1:166:A:GLU:HA	13	0.19
(1,213)	1:167:A:GLY:H	1:166:A:GLU:HA	16	0.19
(1,210)	1:159:A:PHE:HD1	1:159:A:PHE:HA	3	0.19
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	4	0.19
(1,164)	1:123:A:GLU:HA	1:127:A:LEU:HD13	9	0.19
(1,164)	1:123:A:GLU:HA	1:127:A:LEU:HD11	10	0.19
(1,164)	1:123:A:GLU:HA	1:127:A:LEU:HD13	19	0.19
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	16	0.19
(1,148)	1:136:A:VAL:HA	1:135:A:GLN:HG2	11	0.19
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	4	0.19
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	5	0.19
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	11	0.19
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	16	0.19
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	18	0.19
(1,138)	1:133:A:TYR:H	1:133:A:TYR:HA	20	0.19
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	4	0.19
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	5	0.19
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	8	0.19
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	12	0.19
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	8	0.19
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	12	0.19
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	4	0.19
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	11	0.19
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	14	0.19
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	19	0.19
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	20	0.19
(1,35)	1:131:A:THR:HB	1:133:A:TYR:HD2	18	0.19
(1,34)	1:131:A:THR:HB	1:127:A:LEU:HB2	12	0.19
(2,262)	1:113:A:LEU:HD21	1:180:A:LEU:HD13	7	0.18
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	3	0.18
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG3	18	0.18
(2,173)	1:110:A:MET:HB2	1:111:A:VAL:HA	15	0.18
(2,172)	1:110:A:MET:HB3	1:110:A:MET:H	5	0.18
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	10	0.18
(2,113)	1:122:A:ASN:HB2	1:123:A:GLU:H	3	0.18
(2,113)	1:122:A:ASN:HB2	1:123:A:GLU:H	5	0.18
(2,109)	1:154:A:MET:HB3	1:173:A:LEU:HG	9	0.18
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	4	0.18
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	12	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	13	0.18
(2,84)	1:165:A:LYS:HE2	1:160:A:ASP:HA	4	0.18
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	5	0.18
(2,78)	1:165:A:LYS:HE3	1:165:A:LYS:HG3	20	0.18
(2,73)	1:144:A:GLU:HA	1:134:A:ARG:HD3	2	0.18
(2,73)	1:144:A:GLU:HA	1:134:A:ARG:HD3	10	0.18
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	18	0.18
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD3	16	0.18
(2,64)	1:170:A:ARG:HD3	1:186:A:MET:HG2	4	0.18
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	3	0.18
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	8	0.18
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	18	0.18
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	19	0.18
(2,8)	1:164:A:SER:H	1:164:A:SER:HB3	19	0.18
(2,2)	1:140:A:THR:HB	1:138:A:LYS:HE2	13	0.18
(1,1265)	1:110:A:MET:H	1:111:A:VAL:H	19	0.18
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG21	4	0.18
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG22	16	0.18
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	1	0.18
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	7	0.18
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	16	0.18
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	6	0.18
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	7	0.18
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	10	0.18
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG12	10	0.18
(1,1181)	1:154:A:MET:H	1:154:A:MET:HG3	3	0.18
(1,1181)	1:154:A:MET:H	1:154:A:MET:HG3	12	0.18
(1,1165)	1:117:A:MET:H	1:180:A:LEU:HD23	12	0.18
(1,1165)	1:117:A:MET:H	1:180:A:LEU:HD22	13	0.18
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD1	8	0.18
(1,1158)	1:159:A:PHE:H	1:158:A:PRO:HB3	11	0.18
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	1	0.18
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	5	0.18
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	18	0.18
(1,1111)	1:147:A:VAL:H	1:146:A:THR:HB	8	0.18
(1,1111)	1:147:A:VAL:H	1:146:A:THR:HB	13	0.18
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD11	2	0.18
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD12	14	0.18
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	5	0.18
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	12	0.18
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	20	0.18
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD12	18	0.18
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG21	20	0.18
(1,1017)	1:180:A:LEU:H	1:117:A:MET:HB2	13	0.18
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	15	0.18
(1,1001)	1:165:A:LYS:H	1:164:A:SER:HB3	14	0.18
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	15	0.18
(1,980)	1:139:A:MET:H	1:140:A:THR:H	11	0.18
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD22	6	0.18
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD22	7	0.18
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD11	6	0.18
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD12	7	0.18
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD12	14	0.18
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD11	16	0.18
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD11	17	0.18
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD13	20	0.18
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD13	4	0.18
(1,921)	1:180:A:LEU:HD13	1:183:A:ILE:HD13	20	0.18
(1,915)	1:182:A:THR:HA	1:183:A:ILE:HD12	5	0.18
(1,897)	1:119:A:ILE:HG23	1:127:A:LEU:HD11	1	0.18
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG23	3	0.18
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG23	6	0.18
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG21	7	0.18
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG22	8	0.18
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG23	10	0.18
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG21	11	0.18
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG21	12	0.18
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG22	16	0.18
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG21	17	0.18
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG22	19	0.18
(1,891)	1:119:A:ILE:HA	1:119:A:ILE:HG23	18	0.18
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG21	5	0.18
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG22	16	0.18
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG23	18	0.18
(1,841)	1:136:A:VAL:HG12	1:140:A:THR:H	11	0.18
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB2	1	0.18
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB2	7	0.18
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB1	18	0.18
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG22	7	0.18
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG21	9	0.18
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG22	14	0.18
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG23	1	0.18
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG22	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,811)	1:169:A:VAL:HG22	1:169:A:VAL:H	13	0.18
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG21	8	0.18
(1,803)	1:136:A:VAL:HG21	1:134:A:ARG:H	12	0.18
(1,800)	1:182:A:THR:HG23	1:181:A:ALA:HB2	15	0.18
(1,800)	1:182:A:THR:HG23	1:181:A:ALA:HB3	19	0.18
(1,799)	1:182:A:THR:HG23	1:194:A:PHE:HA	13	0.18
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG23	8	0.18
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG21	13	0.18
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG21	14	0.18
(1,788)	1:139:A:MET:HB2	1:146:A:THR:HG23	14	0.18
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG22	1	0.18
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG23	2	0.18
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG22	7	0.18
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG23	11	0.18
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG23	18	0.18
(1,776)	1:146:A:THR:H	1:146:A:THR:HG23	9	0.18
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG23	1	0.18
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG23	9	0.18
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG21	14	0.18
(1,757)	1:171:A:ALA:HB1	1:192:A:PHE:HD1	20	0.18
(1,737)	1:171:A:ALA:HB3	1:192:A:PHE:HE1	1	0.18
(1,712)	1:165:A:LYS:HG2	1:161:A:PHE:H	13	0.18
(1,712)	1:165:A:LYS:HG2	1:161:A:PHE:H	18	0.18
(1,695)	1:128:A:LEU:HA	1:128:A:LEU:HD13	3	0.18
(1,680)	1:140:A:THR:H	1:141:A:ARG:HG3	11	0.18
(1,672)	1:173:A:LEU:HD11	1:183:A:ILE:HD11	12	0.18
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	8	0.18
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	9	0.18
(1,653)	1:183:A:ILE:HG13	1:180:A:LEU:HD13	2	0.18
(1,653)	1:183:A:ILE:HG13	1:180:A:LEU:HD12	14	0.18
(1,641)	1:170:A:ARG:HG2	1:155:A:ILE:HG23	16	0.18
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG23	15	0.18
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD13	3	0.18
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD13	10	0.18
(1,636)	1:170:A:ARG:HG3	1:155:A:ILE:HD11	12	0.18
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	1	0.18
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	13	0.18
(1,612)	1:173:A:LEU:HG	1:154:A:MET:H	15	0.18
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	2	0.18
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	7	0.18
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	15	0.18
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	12	0.18
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD13	5	0.18
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD12	10	0.18
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD13	17	0.18
(1,519)	1:144:A:GLU:HB2	1:136:A:VAL:HG12	12	0.18
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG12	15	0.18
(1,488)	1:117:A:MET:HB2	1:114:A:GLU:H	7	0.18
(1,480)	1:170:A:ARG:H	1:169:A:VAL:HB	14	0.18
(1,477)	1:167:A:GLY:H	1:166:A:GLU:HG3	12	0.18
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG22	18	0.18
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	10	0.18
(1,454)	1:130:A:ALA:H	1:129:A:GLU:HG3	4	0.18
(1,454)	1:130:A:ALA:H	1:129:A:GLU:HG3	17	0.18
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	2	0.18
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	18	0.18
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD12	8	0.18
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	10	0.18
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	10	0.18
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	4	0.18
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	11	0.18
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	12	0.18
(1,379)	1:173:A:LEU:HB2	1:180:A:LEU:HD13	19	0.18
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	18	0.18
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	9	0.18
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	15	0.18
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	13	0.18
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	15	0.18
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	20	0.18
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	1	0.18
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	7	0.18
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	9	0.18
(1,303)	1:197:A:LEU:HA	1:176:A:ASP:HA	16	0.18
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	7	0.18
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	11	0.18
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	16	0.18
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	3	0.18
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	10	0.18
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	13	0.18
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	15	0.18
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	8	0.18
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	14	0.18
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	18	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,226)	1:168:A:GLN:HA	1:155:A:ILE:HG23	4	0.18
(1,213)	1:167:A:GLY:H	1:166:A:GLU:HA	5	0.18
(1,210)	1:159:A:PHE:HD1	1:159:A:PHE:HA	1	0.18
(1,210)	1:159:A:PHE:HD1	1:159:A:PHE:HA	5	0.18
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	2	0.18
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	9	0.18
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	11	0.18
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	12	0.18
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	15	0.18
(1,164)	1:123:A:GLU:HA	1:127:A:LEU:HD13	13	0.18
(1,164)	1:123:A:GLU:HA	1:127:A:LEU:HD11	15	0.18
(1,150)	1:136:A:VAL:HA	1:146:A:THR:HG21	1	0.18
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	2	0.18
(1,113)	1:184:A:VAL:HA	1:185:A:ASN:HB3	12	0.18
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	2	0.18
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	17	0.18
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	18	0.18
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	2	0.18
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	3	0.18
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	6	0.18
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	7	0.18
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	17	0.18
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	18	0.18
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	19	0.18
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	4	0.18
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	7	0.18
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	12	0.18
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	17	0.18
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	1	0.18
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	17	0.18
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	7	0.18
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	17	0.18
(1,34)	1:131:A:THR:HB	1:127:A:LEU:HB2	3	0.18
(2,274)	1:140:A:THR:HG23	1:138:A:LYS:HE2	12	0.17
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	16	0.17
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	8	0.17
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	12	0.17
(2,181)	1:117:A:MET:HG2	1:113:A:LEU:HD12	9	0.17
(2,173)	1:110:A:MET:HB2	1:111:A:VAL:HA	1	0.17
(2,173)	1:110:A:MET:HB2	1:111:A:VAL:HA	16	0.17
(2,153)	1:168:A:GLN:HG3	1:168:A:GLN:HA	11	0.17
(2,142)	1:138:A:LYS:H	1:138:A:LYS:HB3	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	3	0.17
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	8	0.17
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	9	0.17
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	10	0.17
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	12	0.17
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	16	0.17
(2,113)	1:122:A:ASN:HB2	1:123:A:GLU:H	8	0.17
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	13	0.17
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB2	14	0.17
(2,94)	1:160:A:ASP:HB2	1:165:A:LYS:HD3	9	0.17
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	14	0.17
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	17	0.17
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	4	0.17
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	9	0.17
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	11	0.17
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	12	0.17
(2,84)	1:165:A:LYS:HE2	1:160:A:ASP:HA	11	0.17
(2,83)	1:165:A:LYS:HE2	1:165:A:LYS:HG2	7	0.17
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	11	0.17
(2,73)	1:144:A:GLU:HA	1:134:A:ARG:HD3	3	0.17
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	4	0.17
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	9	0.17
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	15	0.17
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	4	0.17
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	9	0.17
(2,61)	1:170:A:ARG:HD3	1:169:A:VAL:HG11	2	0.17
(2,61)	1:170:A:ARG:HD3	1:169:A:VAL:HG11	12	0.17
(2,53)	1:177:A:GLY:HA2	1:178:A:ASP:HB3	14	0.17
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	9	0.17
(2,24)	1:187:A:GLU:HA	1:170:A:ARG:HD2	10	0.17
(2,14)	1:111:A:VAL:HA	1:110:A:MET:HG3	12	0.17
(2,14)	1:111:A:VAL:HA	1:110:A:MET:HG3	19	0.17
(2,9)	1:164:A:SER:HB3	1:161:A:PHE:HD1	9	0.17
(2,2)	1:140:A:THR:HB	1:138:A:LYS:HE2	2	0.17
(1,1265)	1:110:A:MET:H	1:111:A:VAL:H	11	0.17
(1,1265)	1:110:A:MET:H	1:111:A:VAL:H	12	0.17
(1,1262)	1:182:A:THR:H	1:182:A:THR:HG21	10	0.17
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG21	3	0.17
(1,1215)	1:122:A:ASN:H	1:121:A:LYS:HB3	16	0.17
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	2	0.17
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	4	0.17
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	6	0.17
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	14	0.17
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	20	0.17
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	2	0.17
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	4	0.17
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	13	0.17
(1,1181)	1:154:A:MET:H	1:154:A:MET:HG3	5	0.17
(1,1165)	1:117:A:MET:H	1:180:A:LEU:HD22	15	0.17
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD2	17	0.17
(1,1158)	1:159:A:PHE:H	1:158:A:PRO:HB3	13	0.17
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	12	0.17
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	11	0.17
(1,1111)	1:147:A:VAL:H	1:146:A:THR:HB	19	0.17
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD12	17	0.17
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	5	0.17
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	1	0.17
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	14	0.17
(1,1073)	1:169:A:VAL:H	1:168:A:GLN:HG3	12	0.17
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	8	0.17
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	12	0.17
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	14	0.17
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	16	0.17
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	19	0.17
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	6	0.17
(1,1008)	1:175:A:PHE:H	1:175:A:PHE:HB3	7	0.17
(1,1008)	1:175:A:PHE:H	1:175:A:PHE:HB3	15	0.17
(1,1002)	1:165:A:LYS:H	1:166:A:GLU:HG2	16	0.17
(1,1001)	1:165:A:LYS:H	1:164:A:SER:HB3	4	0.17
(1,1001)	1:165:A:LYS:H	1:164:A:SER:HB3	8	0.17
(1,995)	1:139:A:MET:H	1:136:A:VAL:HG12	17	0.17
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	10	0.17
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	16	0.17
(1,991)	1:139:A:MET:H	1:146:A:THR:HA	19	0.17
(1,980)	1:139:A:MET:H	1:140:A:THR:H	13	0.17
(1,980)	1:139:A:MET:H	1:140:A:THR:H	17	0.17
(1,980)	1:139:A:MET:H	1:140:A:THR:H	19	0.17
(1,952)	1:173:A:LEU:H	1:171:A:ALA:HB2	19	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	1	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	2	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	3	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	4	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	6	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	7	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	8	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	9	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	11	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	12	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	13	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	14	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	15	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	16	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	17	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	18	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	19	0.17
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	20	0.17
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD11	13	0.17
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD13	15	0.17
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD12	19	0.17
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD11	6	0.17
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD13	15	0.17
(1,924)	1:183:A:ILE:HA	1:183:A:ILE:HD12	4	0.17
(1,924)	1:183:A:ILE:HA	1:183:A:ILE:HD12	5	0.17
(1,924)	1:183:A:ILE:HA	1:183:A:ILE:HD13	15	0.17
(1,923)	1:183:A:ILE:HD11	1:114:A:GLU:H	14	0.17
(1,898)	1:119:A:ILE:HG22	1:119:A:ILE:HD12	4	0.17
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG21	2	0.17
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG23	9	0.17
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG23	15	0.17
(1,895)	1:119:A:ILE:HB	1:119:A:ILE:HG22	20	0.17
(1,891)	1:119:A:ILE:HA	1:119:A:ILE:HG23	4	0.17
(1,844)	1:139:A:MET:HB3	1:136:A:VAL:HG12	15	0.17
(1,841)	1:136:A:VAL:HG13	1:140:A:THR:H	17	0.17
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB3	8	0.17
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB2	15	0.17
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB2	17	0.17
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB1	20	0.17
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG21	3	0.17
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG22	8	0.17
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG22	16	0.17
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG21	18	0.17
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG22	19	0.17
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG21	18	0.17
(1,803)	1:136:A:VAL:HG23	1:134:A:ARG:H	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,803)	1:136:A:VAL:HG21	1:134:A:ARG:H	18	0.17
(1,802)	1:184:A:VAL:HG23	1:182:A:THR:HG23	2	0.17
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG22	6	0.17
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG21	7	0.17
(1,788)	1:139:A:MET:HB2	1:146:A:THR:HG23	5	0.17
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG21	16	0.17
(1,724)	1:124:A:MET:HA	1:127:A:LEU:HD13	4	0.17
(1,724)	1:124:A:MET:HA	1:127:A:LEU:HD11	11	0.17
(1,724)	1:124:A:MET:HA	1:127:A:LEU:HD12	20	0.17
(1,689)	1:197:A:LEU:HD11	1:174:A:THR:HA	5	0.17
(1,672)	1:173:A:LEU:HD12	1:183:A:ILE:HD11	15	0.17
(1,672)	1:173:A:LEU:HD11	1:183:A:ILE:HD11	18	0.17
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	14	0.17
(1,652)	1:183:A:ILE:HG13	1:180:A:LEU:HG	10	0.17
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	8	0.17
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	16	0.17
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	3	0.17
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	10	0.17
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	13	0.17
(1,612)	1:173:A:LEU:HG	1:154:A:MET:H	3	0.17
(1,612)	1:173:A:LEU:HG	1:154:A:MET:H	13	0.17
(1,612)	1:173:A:LEU:HG	1:154:A:MET:H	18	0.17
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	9	0.17
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	12	0.17
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	13	0.17
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	3	0.17
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	11	0.17
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	13	0.17
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	14	0.17
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	15	0.17
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	18	0.17
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	20	0.17
(1,531)	1:117:A:MET:HG3	1:180:A:LEU:HD11	15	0.17
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD13	13	0.17
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD12	15	0.17
(1,499)	1:135:A:GLN:HG3	1:136:A:VAL:HA	9	0.17
(1,477)	1:167:A:GLY:H	1:166:A:GLU:HG3	1	0.17
(1,477)	1:167:A:GLY:H	1:166:A:GLU:HG3	9	0.17
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG21	7	0.17
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG21	11	0.17
(1,449)	1:126:A:LYS:H	1:129:A:GLU:HG2	3	0.17
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD12	1	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD11	3	0.17
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	3	0.17
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	9	0.17
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	20	0.17
(1,387)	1:175:A:PHE:HB2	1:180:A:LEU:HA	5	0.17
(1,387)	1:175:A:PHE:HB2	1:180:A:LEU:HA	9	0.17
(1,387)	1:175:A:PHE:HB2	1:180:A:LEU:HA	12	0.17
(1,387)	1:175:A:PHE:HB2	1:180:A:LEU:HA	16	0.17
(1,387)	1:175:A:PHE:HB2	1:180:A:LEU:HA	17	0.17
(1,386)	1:123:A:GLU:HA	1:126:A:LYS:HE3	1	0.17
(1,345)	1:171:A:ALA:HA	1:169:A:VAL:HG11	2	0.17
(1,345)	1:171:A:ALA:HA	1:169:A:VAL:HG13	5	0.17
(1,345)	1:171:A:ALA:HA	1:169:A:VAL:HG12	16	0.17
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	13	0.17
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	20	0.17
(1,317)	1:114:A:GLU:HA	1:183:A:ILE:HD13	6	0.17
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	7	0.17
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	10	0.17
(1,303)	1:197:A:LEU:HA	1:176:A:ASP:HA	4	0.17
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG21	9	0.17
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	8	0.17
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	18	0.17
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	8	0.17
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	9	0.17
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	10	0.17
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	19	0.17
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	20	0.17
(1,247)	1:170:A:ARG:HA	1:155:A:ILE:HD12	5	0.17
(1,247)	1:170:A:ARG:HA	1:155:A:ILE:HD11	16	0.17
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	14	0.17
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	18	0.17
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	11	0.17
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	13	0.17
(1,213)	1:167:A:GLY:H	1:166:A:GLU:HA	8	0.17
(1,211)	1:139:A:MET:HA	1:146:A:THR:HG21	12	0.17
(1,210)	1:159:A:PHE:HD2	1:159:A:PHE:HA	10	0.17
(1,194)	1:145:A:PHE:HA	1:136:A:VAL:HG11	16	0.17
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	7	0.17
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	13	0.17
(1,176)	1:187:A:GLU:HA	1:186:A:MET:HA	17	0.17
(1,150)	1:136:A:VAL:HA	1:146:A:THR:HG22	12	0.17
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	20	0.17
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	3	0.17
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	18	0.17
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	1	0.17
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	5	0.17
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	9	0.17
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	10	0.17
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	13	0.17
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	14	0.17
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	20	0.17
(1,71)	1:142:A:PRO:HA	1:155:A:ILE:HG21	10	0.17
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	8	0.17
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	19	0.17
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	3	0.17
(1,36)	1:118:A:THR:HB	1:117:A:MET:HG3	3	0.17
(1,35)	1:131:A:THR:HB	1:133:A:TYR:HD2	5	0.17
(1,34)	1:131:A:THR:HB	1:127:A:LEU:HB2	8	0.17
(1,34)	1:131:A:THR:HB	1:127:A:LEU:HB2	16	0.17
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	18	0.17
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG21	12	0.16
(2,274)	1:140:A:THR:HG22	1:138:A:LYS:HE2	2	0.16
(2,260)	1:125:A:VAL:HG21	1:128:A:LEU:HD13	10	0.16
(2,231)	1:141:A:ARG:HG3	1:139:A:MET:HA	6	0.16
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	13	0.16
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	19	0.16
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	15	0.16
(2,201)	1:154:A:MET:HG2	1:113:A:LEU:HD13	6	0.16
(2,183)	1:121:A:LYS:HB3	1:122:A:ASN:HB2	1	0.16
(2,178)	1:166:A:GLU:HB3	1:166:A:GLU:H	4	0.16
(2,178)	1:166:A:GLU:HB3	1:166:A:GLU:H	6	0.16
(2,178)	1:166:A:GLU:HB3	1:166:A:GLU:H	12	0.16
(2,177)	1:168:A:GLN:HB3	1:158:A:PRO:HB3	17	0.16
(2,172)	1:110:A:MET:HB3	1:110:A:MET:H	6	0.16
(2,135)	1:166:A:GLU:HG2	1:164:A:SER:HB3	15	0.16
(2,125)	1:123:A:GLU:HG3	1:123:A:GLU:HB2	19	0.16
(2,114)	1:122:A:ASN:HB3	1:125:A:VAL:HG11	19	0.16
(2,113)	1:122:A:ASN:HB2	1:123:A:GLU:H	2	0.16
(2,113)	1:122:A:ASN:HB3	1:123:A:GLU:H	14	0.16
(2,109)	1:154:A:MET:HB3	1:173:A:LEU:HG	7	0.16
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	1	0.16
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	2	0.16
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	11	0.16
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	15	0.16
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	16	0.16
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	19	0.16
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	2	0.16
(2,84)	1:165:A:LYS:HE2	1:160:A:ASP:HA	3	0.16
(2,77)	1:165:A:LYS:HE2	1:161:A:PHE:HA	15	0.16
(2,73)	1:144:A:GLU:HA	1:134:A:ARG:HD3	19	0.16
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	5	0.16
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	6	0.16
(2,72)	1:170:A:ARG:HD2	1:170:A:ARG:HG3	12	0.16
(2,71)	1:141:A:ARG:HA	1:141:A:ARG:HD3	9	0.16
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	12	0.16
(2,32)	1:122:A:ASN:HA	1:125:A:VAL:HG21	8	0.16
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	16	0.16
(2,2)	1:140:A:THR:HB	1:138:A:LYS:HE2	19	0.16
(1,1228)	1:179:A:HIS:H	1:177:A:GLY:HA3	14	0.16
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	12	0.16
(1,1201)	1:189:A:ASN:H	1:185:A:ASN:HB2	12	0.16
(1,1192)	1:126:A:LYS:H	1:125:A:VAL:HG12	12	0.16
(1,1182)	1:154:A:MET:H	1:155:A:ILE:HA	8	0.16
(1,1181)	1:154:A:MET:H	1:154:A:MET:HG3	14	0.16
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	15	0.16
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	18	0.16
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	15	0.16
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	16	0.16
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	6	0.16
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	7	0.16
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	10	0.16
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	15	0.16
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	5	0.16
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	20	0.16
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD11	6	0.16
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG23	7	0.16
(1,989)	1:153:A:GLU:H	1:154:A:MET:H	6	0.16
(1,950)	1:176:A:ASP:HB3	1:176:A:ASP:HB2	10	0.16
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD13	8	0.16
(1,915)	1:182:A:THR:HA	1:183:A:ILE:HD11	6	0.16
(1,902)	1:152:A:ILE:HD12	1:133:A:TYR:HD2	5	0.16
(1,891)	1:119:A:ILE:HA	1:119:A:ILE:HG22	1	0.16
(1,891)	1:119:A:ILE:HA	1:119:A:ILE:HG22	6	0.16
(1,891)	1:119:A:ILE:HA	1:119:A:ILE:HG23	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG22	7	0.16
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG23	6	0.16
(1,850)	1:183:A:ILE:HG22	1:114:A:GLU:H	15	0.16
(1,844)	1:139:A:MET:HB3	1:136:A:VAL:HG12	20	0.16
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB2	16	0.16
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG22	2	0.16
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG22	4	0.16
(1,811)	1:169:A:VAL:HG23	1:169:A:VAL:H	4	0.16
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG21	3	0.16
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG22	6	0.16
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG22	10	0.16
(1,804)	1:136:A:VAL:HG21	1:145:A:PHE:H	15	0.16
(1,802)	1:184:A:VAL:HG22	1:182:A:THR:HG23	1	0.16
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG23	1	0.16
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG22	3	0.16
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG22	4	0.16
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG21	16	0.16
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG23	20	0.16
(1,788)	1:139:A:MET:HB2	1:146:A:THR:HG23	13	0.16
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG22	1	0.16
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG23	3	0.16
(1,776)	1:146:A:THR:H	1:146:A:THR:HG23	14	0.16
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG23	4	0.16
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG23	17	0.16
(1,737)	1:171:A:ALA:HB1	1:192:A:PHE:HE1	5	0.16
(1,737)	1:171:A:ALA:HB1	1:192:A:PHE:HE1	16	0.16
(1,712)	1:165:A:LYS:HG2	1:161:A:PHE:H	9	0.16
(1,680)	1:140:A:THR:H	1:141:A:ARG:HG3	18	0.16
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	6	0.16
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	3	0.16
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	12	0.16
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD11	8	0.16
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	3	0.16
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	4	0.16
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	15	0.16
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	15	0.16
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	17	0.16
(1,612)	1:173:A:LEU:HG	1:154:A:MET:H	20	0.16
(1,607)	1:126:A:LYS:HD2	1:123:A:GLU:HA	1	0.16
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	1	0.16
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	8	0.16
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	11	0.16
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	16	0.16
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	17	0.16
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	18	0.16
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	20	0.16
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	5	0.16
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	17	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	1	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	2	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	3	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	4	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	5	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	6	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	7	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	8	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	9	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	10	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	11	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	12	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	13	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	14	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	15	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	17	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	18	0.16
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	19	0.16
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	16	0.16
(1,528)	1:117:A:MET:HG2	1:119:A:ILE:HD13	1	0.16
(1,527)	1:117:A:MET:HA	1:117:A:MET:HG2	5	0.16
(1,507)	1:147:A:VAL:HB	1:135:A:GLN:H	1	0.16
(1,477)	1:167:A:GLY:H	1:166:A:GLU:HG3	8	0.16
(1,477)	1:167:A:GLY:H	1:166:A:GLU:HG3	13	0.16
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	14	0.16
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	6	0.16
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD11	2	0.16
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD13	16	0.16
(1,418)	1:119:A:ILE:HB	1:127:A:LEU:HD12	19	0.16
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	6	0.16
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	20	0.16
(1,387)	1:175:A:PHE:HB2	1:180:A:LEU:HA	1	0.16
(1,387)	1:175:A:PHE:HB2	1:180:A:LEU:HA	19	0.16
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	9	0.16
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	19	0.16
(1,379)	1:173:A:LEU:HB2	1:180:A:LEU:HD11	10	0.16
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	2	0.16
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG23	19	0.16
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	16	0.16
(1,303)	1:197:A:LEU:HA	1:176:A:ASP:HA	12	0.16
(1,303)	1:197:A:LEU:HA	1:176:A:ASP:HA	18	0.16
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	1	0.16
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	5	0.16
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	11	0.16
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	13	0.16
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	15	0.16
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	4	0.16
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	9	0.16
(1,214)	1:122:A:ASN:HA	1:126:A:LYS:H	4	0.16
(1,214)	1:122:A:ASN:HA	1:126:A:LYS:H	15	0.16
(1,211)	1:139:A:MET:HA	1:146:A:THR:HG23	7	0.16
(1,194)	1:145:A:PHE:HA	1:136:A:VAL:HG13	19	0.16
(1,167)	1:186:A:MET:H	1:187:A:GLU:HA	4	0.16
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	12	0.16
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	15	0.16
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	19	0.16
(1,152)	1:136:A:VAL:HA	1:136:A:VAL:HG11	2	0.16
(1,152)	1:136:A:VAL:HA	1:136:A:VAL:HG13	8	0.16
(1,148)	1:136:A:VAL:HA	1:135:A:GLN:HG2	4	0.16
(1,148)	1:136:A:VAL:HA	1:135:A:GLN:HG2	10	0.16
(1,148)	1:136:A:VAL:HA	1:135:A:GLN:HG2	20	0.16
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	16	0.16
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	11	0.16
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	4	0.16
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	11	0.16
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	15	0.16
(1,80)	1:140:A:THR:HB	1:140:A:THR:HA	16	0.16
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	1	0.16
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	13	0.16
(1,57)	1:162:A:PRO:HA	1:161:A:PHE:HA	4	0.16
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	18	0.16
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	2	0.16
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	3	0.16
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	11	0.16
(2,269)	1:113:A:LEU:HD21	1:113:A:LEU:HB3	9	0.15
(2,267)	1:113:A:LEU:HD11	1:117:A:MET:HB3	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,253)	1:138:A:LYS:HE2	1:138:A:LYS:HG3	14	0.15
(2,227)	1:173:A:LEU:HD12	1:113:A:LEU:HD21	8	0.15
(2,188)	1:139:A:MET:HG3	1:146:A:THR:HA	14	0.15
(2,188)	1:139:A:MET:HG2	1:146:A:THR:HA	20	0.15
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG3	5	0.15
(2,183)	1:121:A:LYS:HB3	1:122:A:ASN:HB2	17	0.15
(2,172)	1:110:A:MET:HB3	1:110:A:MET:H	7	0.15
(2,172)	1:110:A:MET:HB3	1:110:A:MET:H	11	0.15
(2,172)	1:110:A:MET:HB3	1:110:A:MET:H	15	0.15
(2,172)	1:110:A:MET:HB3	1:110:A:MET:H	16	0.15
(2,161)	1:165:A:LYS:HB3	1:166:A:GLU:HA	6	0.15
(2,153)	1:168:A:GLN:HG3	1:168:A:GLN:HA	19	0.15
(2,135)	1:166:A:GLU:HG2	1:164:A:SER:HB3	4	0.15
(2,135)	1:166:A:GLU:HG2	1:164:A:SER:HB3	18	0.15
(2,113)	1:122:A:ASN:HB2	1:123:A:GLU:H	4	0.15
(2,113)	1:122:A:ASN:HB3	1:123:A:GLU:H	17	0.15
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	6	0.15
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	18	0.15
(2,94)	1:160:A:ASP:HB2	1:165:A:LYS:HD3	14	0.15
(2,94)	1:160:A:ASP:HB2	1:165:A:LYS:HD3	20	0.15
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	8	0.15
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	10	0.15
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	5	0.15
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	8	0.15
(2,84)	1:165:A:LYS:HE2	1:160:A:ASP:HA	15	0.15
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD3	6	0.15
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD3	18	0.15
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	1	0.15
(2,67)	1:170:A:ARG:HD3	1:155:A:ILE:HA	2	0.15
(2,46)	1:153:A:GLU:HA	1:186:A:MET:HG3	9	0.15
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD11	3	0.15
(2,28)	1:132:A:GLN:HA	1:132:A:GLN:HB3	17	0.15
(2,2)	1:140:A:THR:HB	1:138:A:LYS:HE2	18	0.15
(1,1257)	1:143:A:GLY:H	1:142:A:PRO:HB2	6	0.15
(1,1257)	1:143:A:GLY:H	1:142:A:PRO:HB2	13	0.15
(1,1228)	1:179:A:HIS:H	1:177:A:GLY:HA3	19	0.15
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	17	0.15
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	19	0.15
(1,1201)	1:189:A:ASN:H	1:185:A:ASN:HB2	15	0.15
(1,1171)	1:174:A:THR:H	1:183:A:ILE:HG21	10	0.15
(1,1158)	1:159:A:PHE:H	1:158:A:PRO:HB3	18	0.15
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	19	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	6	0.15
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	14	0.15
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	16	0.15
(1,1141)	1:155:A:ILE:H	1:143:A:GLY:H	15	0.15
(1,1111)	1:147:A:VAL:H	1:146:A:THR:HB	10	0.15
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD13	9	0.15
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD12	11	0.15
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD13	12	0.15
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	13	0.15
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	9	0.15
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	13	0.15
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	17	0.15
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	11	0.15
(1,1026)	1:127:A:LEU:H	1:128:A:LEU:HD11	8	0.15
(1,1026)	1:127:A:LEU:H	1:128:A:LEU:HD12	14	0.15
(1,1008)	1:175:A:PHE:H	1:175:A:PHE:HB3	14	0.15
(1,980)	1:139:A:MET:H	1:140:A:THR:H	20	0.15
(1,977)	1:135:A:GLN:H	1:134:A:ARG:HB2	12	0.15
(1,965)	1:119:A:ILE:H	1:180:A:LEU:HD23	1	0.15
(1,963)	1:170:A:ARG:H	1:155:A:ILE:HG21	1	0.15
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD11	1	0.15
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD13	4	0.15
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD11	11	0.15
(1,932)	1:119:A:ILE:HD13	1:117:A:MET:HG3	5	0.15
(1,932)	1:119:A:ILE:HD13	1:117:A:MET:HG3	10	0.15
(1,932)	1:119:A:ILE:HD13	1:117:A:MET:HG3	17	0.15
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD11	5	0.15
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD13	8	0.15
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD11	11	0.15
(1,915)	1:182:A:THR:HA	1:183:A:ILE:HD13	13	0.15
(1,915)	1:182:A:THR:HA	1:183:A:ILE:HD13	15	0.15
(1,898)	1:119:A:ILE:HG22	1:119:A:ILE:HD11	7	0.15
(1,891)	1:119:A:ILE:HA	1:119:A:ILE:HG23	7	0.15
(1,850)	1:183:A:ILE:HG21	1:114:A:GLU:H	6	0.15
(1,841)	1:136:A:VAL:HG13	1:140:A:THR:H	19	0.15
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB1	10	0.15
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG23	1	0.15
(1,807)	1:136:A:VAL:HG21	1:136:A:VAL:HG13	20	0.15
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG23	2	0.15
(1,800)	1:182:A:THR:HG21	1:181:A:ALA:HB3	8	0.15
(1,793)	1:182:A:THR:HG21	1:194:A:PHE:H	3	0.15
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG23	2	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG23	5	0.15
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG23	11	0.15
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG22	19	0.15
(1,788)	1:139:A:MET:HB2	1:146:A:THR:HG22	4	0.15
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG22	8	0.15
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG23	14	0.15
(1,776)	1:146:A:THR:H	1:146:A:THR:HG22	4	0.15
(1,737)	1:171:A:ALA:HB1	1:192:A:PHE:HE1	19	0.15
(1,736)	1:171:A:ALA:H	1:171:A:ALA:HB3	12	0.15
(1,736)	1:171:A:ALA:H	1:171:A:ALA:HB1	17	0.15
(1,724)	1:124:A:MET:HA	1:127:A:LEU:HD11	17	0.15
(1,685)	1:197:A:LEU:HD12	1:176:A:ASP:HA	19	0.15
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	6	0.15
(1,653)	1:183:A:ILE:HG13	1:180:A:LEU:HD12	5	0.15
(1,653)	1:183:A:ILE:HG13	1:180:A:LEU:HD11	8	0.15
(1,653)	1:183:A:ILE:HG13	1:180:A:LEU:HD13	19	0.15
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG22	3	0.15
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	9	0.15
(1,630)	1:126:A:LYS:HD3	1:124:A:MET:H	1	0.15
(1,623)	1:173:A:LEU:HG	1:180:A:LEU:HD13	9	0.15
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	2	0.15
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	12	0.15
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	19	0.15
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	20	0.15
(1,612)	1:173:A:LEU:HG	1:154:A:MET:H	16	0.15
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	4	0.15
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	5	0.15
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	6	0.15
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	14	0.15
(1,579)	1:170:A:ARG:HB2	1:169:A:VAL:HG12	19	0.15
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	2	0.15
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	4	0.15
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	20	0.15
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	2	0.15
(1,514)	1:144:A:GLU:HB3	1:133:A:TYR:HD1	15	0.15
(1,503)	1:139:A:MET:HB2	1:145:A:PHE:HB2	3	0.15
(1,501)	1:144:A:GLU:HB3	1:133:A:TYR:HA	15	0.15
(1,494)	1:117:A:MET:HB2	1:180:A:LEU:HB3	5	0.15
(1,477)	1:167:A:GLY:H	1:166:A:GLU:HG3	15	0.15
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG22	6	0.15
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	15	0.15
(1,469)	1:187:A:GLU:HG2	1:169:A:VAL:HG13	14	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	9	0.15
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	13	0.15
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	20	0.15
(1,457)	1:187:A:GLU:HG3	1:186:A:MET:HB2	13	0.15
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD12	12	0.15
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	1	0.15
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	11	0.15
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	12	0.15
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	17	0.15
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	19	0.15
(1,396)	1:127:A:LEU:HB3	1:126:A:LYS:H	1	0.15
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	1	0.15
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	20	0.15
(1,364)	1:145:A:PHE:H	1:134:A:ARG:HD3	2	0.15
(1,360)	1:167:A:GLY:HA2	1:158:A:PRO:HA	15	0.15
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	7	0.15
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	7	0.15
(1,328)	1:188:A:ASN:HA	1:187:A:GLU:HB2	14	0.15
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG23	10	0.15
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	13	0.15
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	3	0.15
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	6	0.15
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	13	0.15
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	18	0.15
(1,303)	1:197:A:LEU:HA	1:176:A:ASP:HA	3	0.15
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	6	0.15
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	7	0.15
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	9	0.15
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	10	0.15
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	13	0.15
(1,247)	1:170:A:ARG:HA	1:155:A:ILE:HD12	1	0.15
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	12	0.15
(1,229)	1:111:A:VAL:H	1:110:A:MET:HA	2	0.15
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	16	0.15
(1,214)	1:122:A:ASN:HA	1:126:A:LYS:H	7	0.15
(1,214)	1:122:A:ASN:HA	1:126:A:LYS:H	19	0.15
(1,214)	1:122:A:ASN:HA	1:126:A:LYS:H	20	0.15
(1,213)	1:167:A:GLY:H	1:166:A:GLU:HA	14	0.15
(1,167)	1:186:A:MET:H	1:187:A:GLU:HA	20	0.15
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	3	0.15
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	4	0.15
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	7	0.15
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	13	0.15
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	17	0.15
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	20	0.15
(1,148)	1:136:A:VAL:HA	1:135:A:GLN:HG2	15	0.15
(1,148)	1:136:A:VAL:HA	1:135:A:GLN:HG2	16	0.15
(1,148)	1:136:A:VAL:HA	1:135:A:GLN:HG2	17	0.15
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	4	0.15
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	13	0.15
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	3	0.15
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	1	0.15
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	10	0.15
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	13	0.15
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	15	0.15
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	14	0.15
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	3	0.15
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	6	0.15
(1,38)	1:118:A:THR:HB	1:179:A:HIS:HB2	14	0.15
(1,36)	1:118:A:THR:HB	1:117:A:MET:HG3	18	0.15
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	8	0.15
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	9	0.15
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	19	0.15
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG23	17	0.14
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG13	19	0.14
(2,253)	1:138:A:LYS:HE2	1:138:A:LYS:HG3	17	0.14
(2,207)	1:126:A:LYS:HD3	1:126:A:LYS:HG3	1	0.14
(2,190)	1:139:A:MET:HG2	1:139:A:MET:H	1	0.14
(2,183)	1:121:A:LYS:HB3	1:122:A:ASN:HB2	3	0.14
(2,181)	1:117:A:MET:HG2	1:113:A:LEU:HD13	12	0.14
(2,172)	1:110:A:MET:HB3	1:110:A:MET:H	1	0.14
(2,152)	1:168:A:GLN:HG3	1:155:A:ILE:HG21	1	0.14
(2,113)	1:122:A:ASN:HB3	1:123:A:GLU:H	7	0.14
(2,109)	1:154:A:MET:HB3	1:173:A:LEU:HG	17	0.14
(2,94)	1:160:A:ASP:HB2	1:165:A:LYS:HD3	8	0.14
(2,94)	1:160:A:ASP:HB2	1:165:A:LYS:HD3	13	0.14
(2,94)	1:160:A:ASP:HB2	1:165:A:LYS:HD3	18	0.14
(2,93)	1:163:A:ASP:HB3	1:161:A:PHE:HD2	8	0.14
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	5	0.14
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	7	0.14
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	1	0.14
(2,71)	1:141:A:ARG:HA	1:141:A:ARG:HD3	19	0.14
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD3	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD12	5	0.14
(2,15)	1:169:A:VAL:HA	1:169:A:VAL:HG22	1	0.14
(2,15)	1:169:A:VAL:HA	1:169:A:VAL:HG21	19	0.14
(2,9)	1:164:A:SER:HB2	1:161:A:PHE:HD2	5	0.14
(2,9)	1:164:A:SER:HB2	1:161:A:PHE:HD2	6	0.14
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG23	1	0.14
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	1	0.14
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	9	0.14
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	18	0.14
(1,1165)	1:117:A:MET:H	1:180:A:LEU:HD22	2	0.14
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD2	1	0.14
(1,1158)	1:159:A:PHE:H	1:158:A:PRO:HB3	6	0.14
(1,1158)	1:159:A:PHE:H	1:158:A:PRO:HB3	14	0.14
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	12	0.14
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	15	0.14
(1,1128)	1:110:A:MET:H	1:111:A:VAL:HG12	5	0.14
(1,1111)	1:147:A:VAL:H	1:146:A:THR:HB	6	0.14
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD12	4	0.14
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	4	0.14
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	6	0.14
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	20	0.14
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	3	0.14
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	6	0.14
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	7	0.14
(1,1070)	1:161:A:PHE:H	1:160:A:ASP:HB3	18	0.14
(1,1060)	1:160:A:ASP:H	1:159:A:PHE:HD1	3	0.14
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	4	0.14
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	2	0.14
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	12	0.14
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	14	0.14
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	15	0.14
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	16	0.14
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	18	0.14
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG22	3	0.14
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG23	11	0.14
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	10	0.14
(1,1005)	1:175:A:PHE:H	1:152:A:ILE:H	19	0.14
(1,1002)	1:165:A:LYS:H	1:166:A:GLU:HG2	18	0.14
(1,998)	1:186:A:MET:H	1:188:A:ASN:H	7	0.14
(1,980)	1:139:A:MET:H	1:140:A:THR:H	1	0.14
(1,980)	1:139:A:MET:H	1:140:A:THR:H	15	0.14
(1,959)	1:170:A:ARG:H	1:170:A:ARG:HB2	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD13	2	0.14
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD11	5	0.14
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD11	9	0.14
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD11	18	0.14
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD11	16	0.14
(1,891)	1:119:A:ILE:HA	1:119:A:ILE:HG23	5	0.14
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG23	1	0.14
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG23	2	0.14
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG22	4	0.14
(1,871)	1:192:A:PHE:HD1	1:183:A:ILE:HG22	11	0.14
(1,850)	1:183:A:ILE:HG21	1:114:A:GLU:H	19	0.14
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB2	4	0.14
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB3	14	0.14
(1,832)	1:185:A:ASN:HB3	1:184:A:VAL:HG11	15	0.14
(1,818)	1:151:A:SER:HA	1:174:A:THR:HG22	15	0.14
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG22	7	0.14
(1,804)	1:136:A:VAL:HG22	1:145:A:PHE:H	10	0.14
(1,803)	1:136:A:VAL:HG21	1:134:A:ARG:H	1	0.14
(1,803)	1:136:A:VAL:HG22	1:134:A:ARG:H	9	0.14
(1,800)	1:182:A:THR:HG22	1:181:A:ALA:HB2	13	0.14
(1,799)	1:182:A:THR:HG22	1:194:A:PHE:HA	20	0.14
(1,794)	1:182:A:THR:HB	1:182:A:THR:HG21	10	0.14
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG22	17	0.14
(1,788)	1:139:A:MET:HB2	1:146:A:THR:HG21	8	0.14
(1,787)	1:146:A:THR:HG22	1:146:A:THR:HB	10	0.14
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG23	10	0.14
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG23	15	0.14
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG22	18	0.14
(1,737)	1:171:A:ALA:HB3	1:192:A:PHE:HE1	7	0.14
(1,724)	1:124:A:MET:HA	1:127:A:LEU:HD13	5	0.14
(1,715)	1:165:A:LYS:HA	1:165:A:LYS:HG3	16	0.14
(1,658)	1:127:A:LEU:HG	1:131:A:THR:HB	13	0.14
(1,652)	1:183:A:ILE:HG13	1:180:A:LEU:HG	11	0.14
(1,646)	1:183:A:ILE:HG12	1:173:A:LEU:HG	19	0.14
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	10	0.14
(1,625)	1:119:A:ILE:HG13	1:117:A:MET:HG3	4	0.14
(1,625)	1:119:A:ILE:HG13	1:117:A:MET:HG3	6	0.14
(1,625)	1:119:A:ILE:HG13	1:117:A:MET:HG3	14	0.14
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	10	0.14
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	18	0.14
(1,612)	1:173:A:LEU:HG	1:154:A:MET:H	1	0.14
(1,612)	1:173:A:LEU:HG	1:154:A:MET:H	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,610)	1:119:A:ILE:HG12	1:180:A:LEU:HD23	14	0.14
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	3	0.14
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	9	0.14
(1,571)	1:125:A:VAL:HB	1:126:A:LYS:HG2	10	0.14
(1,561)	1:156:A:ARG:HB2	1:169:A:VAL:HG11	6	0.14
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	5	0.14
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	6	0.14
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	8	0.14
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	10	0.14
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	11	0.14
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	17	0.14
(1,519)	1:144:A:GLU:HB2	1:136:A:VAL:HG12	7	0.14
(1,515)	1:135:A:GLN:HA	1:135:A:GLN:HG3	8	0.14
(1,507)	1:147:A:VAL:HB	1:135:A:GLN:H	12	0.14
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG12	11	0.14
(1,480)	1:170:A:ARG:H	1:169:A:VAL:HB	15	0.14
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	1	0.14
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	20	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	1	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	2	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	3	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	4	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	5	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	6	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	7	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	8	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	10	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	11	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	12	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	14	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	15	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	16	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	17	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	18	0.14
(1,467)	1:187:A:GLU:HG3	1:187:A:GLU:HG2	19	0.14
(1,457)	1:187:A:GLU:HG3	1:186:A:MET:HB2	7	0.14
(1,419)	1:119:A:ILE:HB	1:180:A:LEU:HD11	9	0.14
(1,408)	1:150:A:ASN:HB2	1:175:A:PHE:HD2	4	0.14
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	2	0.14
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	19	0.14
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	19	0.14
(1,387)	1:175:A:PHE:HB2	1:180:A:LEU:HA	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,387)	1:175:A:PHE:HB2	1:180:A:LEU:HA	20	0.14
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	13	0.14
(1,379)	1:173:A:LEU:HB2	1:180:A:LEU:HD13	2	0.14
(1,379)	1:173:A:LEU:HB2	1:180:A:LEU:HD13	7	0.14
(1,379)	1:173:A:LEU:HB2	1:180:A:LEU:HD13	15	0.14
(1,364)	1:145:A:PHE:H	1:134:A:ARG:HD3	7	0.14
(1,347)	1:177:A:GLY:HA2	1:179:A:HIS:H	1	0.14
(1,345)	1:171:A:ALA:HA	1:169:A:VAL:HG12	4	0.14
(1,345)	1:171:A:ALA:HA	1:169:A:VAL:HG12	13	0.14
(1,345)	1:171:A:ALA:HA	1:169:A:VAL:HG11	15	0.14
(1,345)	1:171:A:ALA:HA	1:169:A:VAL:HG13	17	0.14
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	2	0.14
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	11	0.14
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	16	0.14
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	20	0.14
(1,328)	1:188:A:ASN:HA	1:187:A:GLU:HB2	5	0.14
(1,324)	1:150:A:ASN:HA	1:175:A:PHE:H	14	0.14
(1,322)	1:185:A:ASN:HA	1:169:A:VAL:HG13	5	0.14
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	14	0.14
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	16	0.14
(1,304)	1:160:A:ASP:HA	1:159:A:PHE:HD2	9	0.14
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	1	0.14
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	3	0.14
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	8	0.14
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	12	0.14
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	14	0.14
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	15	0.14
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	16	0.14
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	19	0.14
(1,268)	1:180:A:LEU:HA	1:119:A:ILE:HG23	16	0.14
(1,263)	1:180:A:LEU:HA	1:175:A:PHE:HE1	16	0.14
(1,252)	1:153:A:GLU:HA	1:173:A:LEU:HD21	3	0.14
(1,252)	1:153:A:GLU:HA	1:173:A:LEU:HD22	19	0.14
(1,250)	1:153:A:GLU:HA	1:152:A:ILE:H	1	0.14
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	2	0.14
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	19	0.14
(1,213)	1:167:A:GLY:H	1:166:A:GLU:HA	11	0.14
(1,213)	1:167:A:GLY:H	1:166:A:GLU:HA	18	0.14
(1,211)	1:139:A:MET:HA	1:146:A:THR:HG21	3	0.14
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	5	0.14
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	20	0.14
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	8	0.14
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	18	0.14
(1,159)	1:123:A:GLU:HA	1:127:A:LEU:H	9	0.14
(1,159)	1:123:A:GLU:HA	1:127:A:LEU:H	10	0.14
(1,159)	1:123:A:GLU:HA	1:127:A:LEU:H	19	0.14
(1,152)	1:136:A:VAL:HA	1:136:A:VAL:HG11	1	0.14
(1,152)	1:136:A:VAL:HA	1:136:A:VAL:HG13	14	0.14
(1,152)	1:136:A:VAL:HA	1:136:A:VAL:HG11	18	0.14
(1,150)	1:136:A:VAL:HA	1:146:A:THR:HG21	7	0.14
(1,147)	1:136:A:VAL:HA	1:137:A:SER:HB2	20	0.14
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	3	0.14
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	15	0.14
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	18	0.14
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	20	0.14
(1,145)	1:123:A:GLU:HA	1:120:A:SER:H	4	0.14
(1,145)	1:123:A:GLU:HA	1:120:A:SER:H	12	0.14
(1,145)	1:123:A:GLU:HA	1:120:A:SER:H	14	0.14
(1,145)	1:123:A:GLU:HA	1:120:A:SER:H	17	0.14
(1,145)	1:123:A:GLU:HA	1:120:A:SER:H	20	0.14
(1,127)	1:129:A:GLU:HA	1:134:A:ARG:HG2	3	0.14
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	7	0.14
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	8	0.14
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	9	0.14
(1,89)	1:118:A:THR:HA	1:117:A:MET:HG2	15	0.14
(1,89)	1:118:A:THR:HA	1:117:A:MET:HG2	18	0.14
(1,87)	1:118:A:THR:HA	1:119:A:ILE:HG23	13	0.14
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	18	0.14
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	6	0.14
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	16	0.14
(1,48)	1:125:A:VAL:HA	1:126:A:LYS:HG2	2	0.14
(1,46)	1:125:A:VAL:HA	1:127:A:LEU:H	2	0.14
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	13	0.14
(1,34)	1:131:A:THR:HB	1:127:A:LEU:HB2	14	0.14
(1,34)	1:131:A:THR:HB	1:127:A:LEU:HB2	17	0.14
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	4	0.14
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	7	0.14
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	16	0.14
(2,284)	1:147:A:VAL:HG21	1:152:A:ILE:HD11	2	0.13
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG23	8	0.13
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG22	11	0.13
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG21	14	0.13
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG23	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG22	20	0.13
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG12	12	0.13
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG12	20	0.13
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	16	0.13
(2,213)	1:162:A:PRO:HG3	1:161:A:PHE:HD1	1	0.13
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	9	0.13
(2,198)	1:154:A:MET:HG2	1:154:A:MET:H	12	0.13
(2,188)	1:139:A:MET:HG3	1:146:A:THR:HA	6	0.13
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG3	10	0.13
(2,178)	1:166:A:GLU:HB3	1:166:A:GLU:H	5	0.13
(2,178)	1:166:A:GLU:HB3	1:166:A:GLU:H	14	0.13
(2,176)	1:114:A:GLU:HB2	1:183:A:ILE:HD11	20	0.13
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB3	6	0.13
(2,127)	1:123:A:GLU:HG3	1:120:A:SER:H	11	0.13
(2,113)	1:122:A:ASN:HB3	1:123:A:GLU:H	6	0.13
(2,113)	1:122:A:ASN:HB3	1:123:A:GLU:H	12	0.13
(2,110)	1:189:A:ASN:HB3	1:186:A:MET:HB3	4	0.13
(2,94)	1:160:A:ASP:HB2	1:165:A:LYS:HD3	2	0.13
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	15	0.13
(2,71)	1:141:A:ARG:HA	1:141:A:ARG:HD3	8	0.13
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD3	4	0.13
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD3	9	0.13
(2,63)	1:171:A:ALA:H	1:170:A:ARG:HD2	17	0.13
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD13	2	0.13
(2,15)	1:169:A:VAL:HA	1:169:A:VAL:HG21	4	0.13
(2,15)	1:169:A:VAL:HA	1:169:A:VAL:HG23	20	0.13
(2,11)	1:137:A:SER:HB2	1:138:A:LYS:H	7	0.13
(2,9)	1:164:A:SER:HB3	1:161:A:PHE:HD1	16	0.13
(1,1265)	1:110:A:MET:H	1:111:A:VAL:H	4	0.13
(1,1265)	1:110:A:MET:H	1:111:A:VAL:H	5	0.13
(1,1265)	1:110:A:MET:H	1:111:A:VAL:H	8	0.13
(1,1265)	1:110:A:MET:H	1:111:A:VAL:H	13	0.13
(1,1231)	1:131:A:THR:H	1:133:A:TYR:HB3	5	0.13
(1,1228)	1:179:A:HIS:H	1:177:A:GLY:HA3	7	0.13
(1,1219)	1:164:A:SER:H	1:162:A:PRO:HG2	16	0.13
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	3	0.13
(1,1198)	1:140:A:THR:H	1:141:A:ARG:H	5	0.13
(1,1165)	1:117:A:MET:H	1:180:A:LEU:HD23	3	0.13
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD1	13	0.13
(1,1159)	1:159:A:PHE:H	1:158:A:PRO:HB2	5	0.13
(1,1158)	1:159:A:PHE:H	1:158:A:PRO:HB3	10	0.13
(1,1128)	1:110:A:MET:H	1:111:A:VAL:HG13	13	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1111)	1:147:A:VAL:H	1:146:A:THR:HB	16	0.13
(1,1111)	1:147:A:VAL:H	1:146:A:THR:HB	18	0.13
(1,1111)	1:147:A:VAL:H	1:146:A:THR:HB	20	0.13
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD11	10	0.13
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD11	18	0.13
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD13	20	0.13
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	9	0.13
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	19	0.13
(1,1073)	1:169:A:VAL:H	1:168:A:GLN:HG3	11	0.13
(1,1070)	1:161:A:PHE:H	1:160:A:ASP:HB3	6	0.13
(1,1070)	1:161:A:PHE:H	1:160:A:ASP:HB3	8	0.13
(1,1070)	1:161:A:PHE:H	1:160:A:ASP:HB3	13	0.13
(1,1060)	1:160:A:ASP:H	1:159:A:PHE:HD2	9	0.13
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	2	0.13
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	3	0.13
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	5	0.13
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	11	0.13
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	18	0.13
(1,1038)	1:130:A:ALA:H	1:129:A:GLU:HA	20	0.13
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD13	14	0.13
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG23	5	0.13
(1,998)	1:186:A:MET:H	1:188:A:ASN:H	10	0.13
(1,981)	1:153:A:GLU:H	1:146:A:THR:HB	8	0.13
(1,980)	1:139:A:MET:H	1:140:A:THR:H	12	0.13
(1,977)	1:135:A:GLN:H	1:134:A:ARG:HB2	16	0.13
(1,975)	1:135:A:GLN:H	1:135:A:GLN:HG3	9	0.13
(1,959)	1:170:A:ARG:H	1:170:A:ARG:HB2	2	0.13
(1,959)	1:170:A:ARG:H	1:170:A:ARG:HB2	5	0.13
(1,959)	1:170:A:ARG:H	1:170:A:ARG:HB2	17	0.13
(1,945)	1:170:A:ARG:HB3	1:155:A:ILE:HD13	19	0.13
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD13	3	0.13
(1,934)	1:119:A:ILE:HB	1:119:A:ILE:HD11	10	0.13
(1,924)	1:183:A:ILE:HA	1:183:A:ILE:HD11	6	0.13
(1,915)	1:182:A:THR:HA	1:183:A:ILE:HD12	8	0.13
(1,915)	1:182:A:THR:HA	1:183:A:ILE:HD11	17	0.13
(1,912)	1:152:A:ILE:HD11	1:173:A:LEU:HD21	18	0.13
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB2	3	0.13
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB1	6	0.13
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG21	1	0.13
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG23	2	0.13
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG21	4	0.13
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG22	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG22	9	0.13
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG22	10	0.13
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG23	14	0.13
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG22	18	0.13
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG22	20	0.13
(1,793)	1:182:A:THR:HG21	1:194:A:PHE:H	6	0.13
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG22	12	0.13
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG23	2	0.13
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG21	12	0.13
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG23	2	0.13
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG22	10	0.13
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG22	11	0.13
(1,736)	1:171:A:ALA:H	1:171:A:ALA:HB1	3	0.13
(1,736)	1:171:A:ALA:H	1:171:A:ALA:HB3	13	0.13
(1,712)	1:165:A:LYS:HG2	1:161:A:PHE:H	19	0.13
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG23	4	0.13
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG21	7	0.13
(1,680)	1:140:A:THR:H	1:141:A:ARG:HG3	20	0.13
(1,672)	1:173:A:LEU:HD12	1:183:A:ILE:HD13	8	0.13
(1,646)	1:183:A:ILE:HG12	1:173:A:LEU:HG	1	0.13
(1,646)	1:183:A:ILE:HG12	1:173:A:LEU:HG	17	0.13
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	9	0.13
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	12	0.13
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	20	0.13
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	14	0.13
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	18	0.13
(1,612)	1:173:A:LEU:HG	1:154:A:MET:H	11	0.13
(1,594)	1:187:A:GLU:H	1:187:A:GLU:HB3	19	0.13
(1,561)	1:156:A:ARG:HB2	1:169:A:VAL:HG13	3	0.13
(1,555)	1:162:A:PRO:HD3	1:162:A:PRO:HB2	16	0.13
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	1	0.13
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	2	0.13
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	3	0.13
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	9	0.13
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	12	0.13
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	13	0.13
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	14	0.13
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	15	0.13
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	18	0.13
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	19	0.13
(1,480)	1:170:A:ARG:H	1:169:A:VAL:HB	6	0.13
(1,477)	1:167:A:GLY:H	1:166:A:GLU:HG3	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG22	2	0.13
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	7	0.13
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	16	0.13
(1,457)	1:187:A:GLU:HG3	1:186:A:MET:HB2	10	0.13
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	4	0.13
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	13	0.13
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	1	0.13
(1,387)	1:175:A:PHE:HB2	1:180:A:LEU:HA	10	0.13
(1,379)	1:173:A:LEU:HB2	1:180:A:LEU:HD12	5	0.13
(1,379)	1:173:A:LEU:HB2	1:180:A:LEU:HD12	14	0.13
(1,360)	1:167:A:GLY:HA2	1:158:A:PRO:HA	10	0.13
(1,347)	1:177:A:GLY:HA2	1:179:A:HIS:H	7	0.13
(1,347)	1:177:A:GLY:HA2	1:179:A:HIS:H	14	0.13
(1,347)	1:177:A:GLY:HA2	1:179:A:HIS:H	17	0.13
(1,347)	1:177:A:GLY:HA2	1:179:A:HIS:H	19	0.13
(1,345)	1:171:A:ALA:HA	1:169:A:VAL:HG12	18	0.13
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	1	0.13
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	9	0.13
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	12	0.13
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	13	0.13
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	15	0.13
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	18	0.13
(1,328)	1:188:A:ASN:HA	1:187:A:GLU:HB2	7	0.13
(1,322)	1:185:A:ASN:HA	1:169:A:VAL:HG11	15	0.13
(1,318)	1:141:A:ARG:HA	1:140:A:THR:HG22	12	0.13
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	1	0.13
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	17	0.13
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	6	0.13
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	12	0.13
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	2	0.13
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	11	0.13
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	17	0.13
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	20	0.13
(1,247)	1:170:A:ARG:HA	1:155:A:ILE:HD13	3	0.13
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	1	0.13
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	3	0.13
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	4	0.13
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	5	0.13
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	6	0.13
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	9	0.13
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	15	0.13
(1,233)	1:154:A:MET:HA	1:170:A:ARG:HB3	19	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	1	0.13
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	6	0.13
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	12	0.13
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	20	0.13
(1,213)	1:167:A:GLY:H	1:166:A:GLU:HA	7	0.13
(1,213)	1:167:A:GLY:H	1:166:A:GLU:HA	12	0.13
(1,211)	1:139:A:MET:HA	1:146:A:THR:HG22	6	0.13
(1,193)	1:117:A:MET:HA	1:117:A:MET:HB3	2	0.13
(1,193)	1:117:A:MET:HA	1:117:A:MET:HB3	9	0.13
(1,193)	1:117:A:MET:HA	1:117:A:MET:HB3	10	0.13
(1,193)	1:117:A:MET:HA	1:117:A:MET:HB3	11	0.13
(1,193)	1:117:A:MET:HA	1:117:A:MET:HB3	12	0.13
(1,193)	1:117:A:MET:HA	1:117:A:MET:HB3	16	0.13
(1,193)	1:117:A:MET:HA	1:117:A:MET:HB3	20	0.13
(1,167)	1:186:A:MET:H	1:187:A:GLU:HA	1	0.13
(1,167)	1:186:A:MET:H	1:187:A:GLU:HA	9	0.13
(1,166)	1:188:A:ASN:H	1:187:A:GLU:HA	7	0.13
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	2	0.13
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	3	0.13
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	4	0.13
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	11	0.13
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	15	0.13
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	17	0.13
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	18	0.13
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	19	0.13
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	2	0.13
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	11	0.13
(1,159)	1:123:A:GLU:HA	1:127:A:LEU:H	13	0.13
(1,152)	1:136:A:VAL:HA	1:136:A:VAL:HG12	3	0.13
(1,152)	1:136:A:VAL:HA	1:136:A:VAL:HG12	4	0.13
(1,152)	1:136:A:VAL:HA	1:136:A:VAL:HG12	5	0.13
(1,148)	1:136:A:VAL:HA	1:135:A:GLN:HG2	3	0.13
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	5	0.13
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	10	0.13
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	11	0.13
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	17	0.13
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	19	0.13
(1,145)	1:123:A:GLU:HA	1:120:A:SER:H	5	0.13
(1,145)	1:123:A:GLU:HA	1:120:A:SER:H	9	0.13
(1,145)	1:123:A:GLU:HA	1:120:A:SER:H	10	0.13
(1,145)	1:123:A:GLU:HA	1:120:A:SER:H	13	0.13
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	12	0.13
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	16	0.13
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	5	0.13
(1,93)	1:111:A:VAL:HA	1:111:A:VAL:HG23	15	0.13
(1,91)	1:111:A:VAL:H	1:111:A:VAL:HA	3	0.13
(1,91)	1:111:A:VAL:H	1:111:A:VAL:HA	12	0.13
(1,91)	1:111:A:VAL:H	1:111:A:VAL:HA	13	0.13
(1,91)	1:111:A:VAL:H	1:111:A:VAL:HA	18	0.13
(1,89)	1:118:A:THR:HA	1:117:A:MET:HG2	13	0.13
(1,89)	1:118:A:THR:HA	1:117:A:MET:HG2	20	0.13
(1,70)	1:142:A:PRO:HA	1:155:A:ILE:HD11	3	0.13
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	2	0.13
(1,62)	1:164:A:SER:HB2	1:163:A:ASP:H	9	0.13
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	5	0.13
(1,34)	1:131:A:THR:HB	1:127:A:LEU:HB2	20	0.13
(1,12)	1:194:A:PHE:HD2	1:193:A:GLY:HA3	7	0.13
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	13	0.13
(2,288)	1:194:A:PHE:H	1:194:A:PHE:HB3	19	0.12
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG22	3	0.12
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG21	5	0.12
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG12	6	0.12
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG23	9	0.12
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG21	16	0.12
(2,274)	1:140:A:THR:HG23	1:138:A:LYS:HE2	18	0.12
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG13	13	0.12
(2,267)	1:113:A:LEU:HD23	1:117:A:MET:HB3	17	0.12
(2,253)	1:138:A:LYS:HE2	1:138:A:LYS:HG3	12	0.12
(2,209)	1:165:A:LYS:HD3	1:161:A:PHE:H	18	0.12
(2,208)	1:126:A:LYS:HD2	1:122:A:ASN:HB3	6	0.12
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	9	0.12
(2,188)	1:139:A:MET:HG2	1:146:A:THR:HA	15	0.12
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG3	15	0.12
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG3	17	0.12
(2,178)	1:166:A:GLU:HB3	1:166:A:GLU:H	13	0.12
(2,178)	1:166:A:GLU:HB3	1:166:A:GLU:H	15	0.12
(2,178)	1:166:A:GLU:HB3	1:166:A:GLU:H	16	0.12
(2,178)	1:166:A:GLU:HB3	1:166:A:GLU:H	17	0.12
(2,177)	1:168:A:GLN:HB3	1:158:A:PRO:HB3	11	0.12
(2,173)	1:110:A:MET:HB2	1:111:A:VAL:HA	8	0.12
(2,173)	1:110:A:MET:HB2	1:111:A:VAL:HA	17	0.12
(2,156)	1:168:A:GLN:HG3	1:155:A:ILE:HD11	20	0.12
(2,153)	1:168:A:GLN:HG2	1:168:A:GLN:HA	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,132)	1:123:A:GLU:HG3	1:122:A:ASN:HB3	9	0.12
(2,113)	1:122:A:ASN:HB3	1:123:A:GLU:H	11	0.12
(2,113)	1:122:A:ASN:HB3	1:123:A:GLU:H	18	0.12
(2,94)	1:160:A:ASP:HB2	1:165:A:LYS:HD3	7	0.12
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	6	0.12
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	19	0.12
(2,71)	1:141:A:ARG:HA	1:141:A:ARG:HD3	12	0.12
(2,63)	1:170:A:ARG:HD3	1:171:A:ALA:H	13	0.12
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD13	11	0.12
(2,29)	1:151:A:SER:HA	1:173:A:LEU:HD12	17	0.12
(2,15)	1:169:A:VAL:HA	1:169:A:VAL:HG22	9	0.12
(2,14)	1:111:A:VAL:HA	1:110:A:MET:HG3	18	0.12
(1,1265)	1:110:A:MET:H	1:111:A:VAL:H	2	0.12
(1,1265)	1:110:A:MET:H	1:111:A:VAL:H	7	0.12
(1,1258)	1:143:A:GLY:H	1:155:A:ILE:HG22	6	0.12
(1,1224)	1:163:A:ASP:H	1:161:A:PHE:HA	9	0.12
(1,1224)	1:163:A:ASP:H	1:161:A:PHE:HA	20	0.12
(1,1204)	1:189:A:ASN:H	1:189:A:ASN:HB2	13	0.12
(1,1165)	1:117:A:MET:H	1:180:A:LEU:HD22	5	0.12
(1,1165)	1:117:A:MET:H	1:180:A:LEU:HD22	16	0.12
(1,1160)	1:159:A:PHE:H	1:159:A:PHE:HD1	18	0.12
(1,1158)	1:159:A:PHE:H	1:158:A:PRO:HB3	8	0.12
(1,1158)	1:159:A:PHE:H	1:158:A:PRO:HB3	12	0.12
(1,1155)	1:168:A:GLN:H	1:168:A:GLN:HG3	5	0.12
(1,1141)	1:155:A:ILE:H	1:143:A:GLY:H	20	0.12
(1,1126)	1:110:A:MET:H	1:110:A:MET:HA	12	0.12
(1,1126)	1:110:A:MET:H	1:110:A:MET:HA	19	0.12
(1,1126)	1:110:A:MET:H	1:110:A:MET:HA	20	0.12
(1,1111)	1:147:A:VAL:H	1:146:A:THR:HB	7	0.12
(1,1111)	1:147:A:VAL:H	1:146:A:THR:HB	11	0.12
(1,1111)	1:147:A:VAL:H	1:146:A:THR:HB	17	0.12
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD12	5	0.12
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD13	16	0.12
(1,1106)	1:129:A:GLU:H	1:128:A:LEU:HD11	19	0.12
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	14	0.12
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	16	0.12
(1,1085)	1:128:A:LEU:H	1:128:A:LEU:HG	8	0.12
(1,1073)	1:169:A:VAL:H	1:168:A:GLN:HG3	5	0.12
(1,1060)	1:160:A:ASP:H	1:159:A:PHE:HD1	6	0.12
(1,1057)	1:111:A:VAL:H	1:111:A:VAL:HG12	20	0.12
(1,1021)	1:180:A:LEU:H	1:180:A:LEU:HD12	4	0.12
(1,1010)	1:175:A:PHE:H	1:176:A:ASP:H	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1010)	1:175:A:PHE:H	1:176:A:ASP:H	9	0.12
(1,1008)	1:175:A:PHE:H	1:175:A:PHE:HB3	6	0.12
(1,1002)	1:165:A:LYS:H	1:166:A:GLU:HG2	8	0.12
(1,998)	1:186:A:MET:H	1:188:A:ASN:H	18	0.12
(1,989)	1:153:A:GLU:H	1:154:A:MET:H	10	0.12
(1,981)	1:153:A:GLU:H	1:146:A:THR:HB	19	0.12
(1,980)	1:139:A:MET:H	1:140:A:THR:H	6	0.12
(1,980)	1:139:A:MET:H	1:140:A:THR:H	18	0.12
(1,959)	1:170:A:ARG:H	1:170:A:ARG:HB2	6	0.12
(1,959)	1:170:A:ARG:H	1:170:A:ARG:HB2	13	0.12
(1,932)	1:119:A:ILE:HD13	1:117:A:MET:HG3	13	0.12
(1,932)	1:119:A:ILE:HD12	1:117:A:MET:HG3	15	0.12
(1,932)	1:119:A:ILE:HD12	1:117:A:MET:HG3	20	0.12
(1,924)	1:183:A:ILE:HA	1:183:A:ILE:HD11	17	0.12
(1,924)	1:183:A:ILE:HA	1:183:A:ILE:HD11	19	0.12
(1,921)	1:180:A:LEU:HD13	1:183:A:ILE:HD12	17	0.12
(1,915)	1:182:A:THR:HA	1:183:A:ILE:HD13	7	0.12
(1,891)	1:119:A:ILE:HA	1:119:A:ILE:HG23	2	0.12
(1,891)	1:119:A:ILE:HA	1:119:A:ILE:HG22	9	0.12
(1,891)	1:119:A:ILE:HA	1:119:A:ILE:HG22	15	0.12
(1,889)	1:119:A:ILE:H	1:119:A:ILE:HG22	9	0.12
(1,885)	1:152:A:ILE:HG22	1:152:A:ILE:HD11	14	0.12
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG23	3	0.12
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG23	9	0.12
(1,849)	1:183:A:ILE:HG22	1:113:A:LEU:HB3	8	0.12
(1,841)	1:136:A:VAL:HG13	1:140:A:THR:H	1	0.12
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB2	13	0.12
(1,820)	1:174:A:THR:HA	1:174:A:THR:HG21	6	0.12
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG22	3	0.12
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG23	6	0.12
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG23	7	0.12
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG23	8	0.12
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG22	11	0.12
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG22	12	0.12
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG21	13	0.12
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG23	15	0.12
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG23	16	0.12
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG23	17	0.12
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG23	1	0.12
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG23	12	0.12
(1,802)	1:184:A:VAL:HG22	1:182:A:THR:HG22	8	0.12
(1,802)	1:184:A:VAL:HG23	1:182:A:THR:HG23	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,801)	1:140:A:THR:HG22	1:141:A:ARG:HD3	11	0.12
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG21	18	0.12
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG23	16	0.12
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG21	5	0.12
(1,762)	1:147:A:VAL:H	1:147:A:VAL:HG21	12	0.12
(1,736)	1:171:A:ALA:H	1:171:A:ALA:HB3	9	0.12
(1,712)	1:165:A:LYS:HG2	1:161:A:PHE:H	14	0.12
(1,683)	1:141:A:ARG:HG3	1:140:A:THR:HG21	1	0.12
(1,680)	1:140:A:THR:H	1:141:A:ARG:HG3	10	0.12
(1,673)	1:173:A:LEU:HD12	1:180:A:LEU:HD11	1	0.12
(1,673)	1:173:A:LEU:HD11	1:180:A:LEU:HD12	11	0.12
(1,652)	1:183:A:ILE:HG13	1:180:A:LEU:HG	15	0.12
(1,652)	1:183:A:ILE:HG13	1:180:A:LEU:HG	19	0.12
(1,646)	1:183:A:ILE:HG12	1:173:A:LEU:HG	2	0.12
(1,646)	1:183:A:ILE:HG12	1:173:A:LEU:HG	5	0.12
(1,646)	1:183:A:ILE:HG12	1:173:A:LEU:HG	14	0.12
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	13	0.12
(1,632)	1:126:A:LYS:HD3	1:124:A:MET:HA	14	0.12
(1,625)	1:119:A:ILE:HG13	1:117:A:MET:HG3	18	0.12
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	5	0.12
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	7	0.12
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	11	0.12
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	14	0.12
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	17	0.12
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	19	0.12
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	5	0.12
(1,612)	1:173:A:LEU:HG	1:154:A:MET:H	17	0.12
(1,612)	1:173:A:LEU:HG	1:154:A:MET:H	19	0.12
(1,600)	1:168:A:GLN:HB2	1:155:A:ILE:HG22	7	0.12
(1,575)	1:170:A:ARG:HB3	1:169:A:VAL:HG11	15	0.12
(1,565)	1:156:A:ARG:HB3	1:169:A:VAL:H	14	0.12
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	4	0.12
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	7	0.12
(1,554)	1:162:A:PRO:HA	1:162:A:PRO:HB2	20	0.12
(1,519)	1:144:A:GLU:HB2	1:136:A:VAL:HG11	16	0.12
(1,507)	1:147:A:VAL:HB	1:135:A:GLN:H	4	0.12
(1,507)	1:147:A:VAL:HB	1:135:A:GLN:H	9	0.12
(1,507)	1:147:A:VAL:HB	1:135:A:GLN:H	16	0.12
(1,503)	1:139:A:MET:HB2	1:145:A:PHE:HB2	6	0.12
(1,501)	1:144:A:GLU:HB3	1:133:A:TYR:HA	10	0.12
(1,494)	1:117:A:MET:HB2	1:180:A:LEU:HB3	20	0.12
(1,480)	1:170:A:ARG:H	1:169:A:VAL:HB	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,480)	1:170:A:ARG:H	1:169:A:VAL:HB	8	0.12
(1,480)	1:170:A:ARG:H	1:169:A:VAL:HB	18	0.12
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	2	0.12
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	6	0.12
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	8	0.12
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	18	0.12
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	19	0.12
(1,469)	1:187:A:GLU:HG2	1:169:A:VAL:HG12	17	0.12
(1,434)	1:189:A:ASN:HB3	1:188:A:ASN:HA	10	0.12
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	4	0.12
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	15	0.12
(1,405)	1:160:A:ASP:HB3	1:161:A:PHE:HA	17	0.12
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	4	0.12
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	15	0.12
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	3	0.12
(1,379)	1:173:A:LEU:HB2	1:180:A:LEU:HD13	17	0.12
(1,364)	1:145:A:PHE:H	1:134:A:ARG:HD3	4	0.12
(1,364)	1:145:A:PHE:H	1:134:A:ARG:HD3	5	0.12
(1,347)	1:177:A:GLY:HA2	1:179:A:HIS:H	4	0.12
(1,347)	1:177:A:GLY:HA2	1:179:A:HIS:H	10	0.12
(1,347)	1:177:A:GLY:HA2	1:179:A:HIS:H	11	0.12
(1,347)	1:177:A:GLY:HA2	1:179:A:HIS:H	15	0.12
(1,336)	1:162:A:PRO:HD3	1:161:A:PHE:HB2	19	0.12
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	19	0.12
(1,328)	1:188:A:ASN:HA	1:187:A:GLU:HB2	20	0.12
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	6	0.12
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	12	0.12
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	4	0.12
(1,303)	1:197:A:LEU:HA	1:176:A:ASP:HA	1	0.12
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	4	0.12
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	5	0.12
(1,288)	1:130:A:ALA:H	1:130:A:ALA:HA	18	0.12
(1,247)	1:170:A:ARG:HA	1:155:A:ILE:HD12	2	0.12
(1,247)	1:170:A:ARG:HA	1:155:A:ILE:HD12	18	0.12
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	10	0.12
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	13	0.12
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	14	0.12
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	18	0.12
(1,213)	1:167:A:GLY:H	1:166:A:GLU:HA	15	0.12
(1,213)	1:167:A:GLY:H	1:166:A:GLU:HA	19	0.12
(1,211)	1:139:A:MET:HA	1:146:A:THR:HG23	13	0.12
(1,210)	1:159:A:PHE:HD1	1:159:A:PHE:HA	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,193)	1:117:A:MET:HA	1:117:A:MET:HB3	1	0.12
(1,193)	1:117:A:MET:HA	1:117:A:MET:HB3	3	0.12
(1,193)	1:117:A:MET:HA	1:117:A:MET:HB3	8	0.12
(1,193)	1:117:A:MET:HA	1:117:A:MET:HB3	14	0.12
(1,193)	1:117:A:MET:HA	1:117:A:MET:HB3	17	0.12
(1,193)	1:117:A:MET:HA	1:117:A:MET:HB3	19	0.12
(1,167)	1:186:A:MET:H	1:187:A:GLU:HA	3	0.12
(1,167)	1:186:A:MET:H	1:187:A:GLU:HA	6	0.12
(1,167)	1:186:A:MET:H	1:187:A:GLU:HA	12	0.12
(1,167)	1:186:A:MET:H	1:187:A:GLU:HA	18	0.12
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	6	0.12
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	13	0.12
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	14	0.12
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	16	0.12
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	9	0.12
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	10	0.12
(1,161)	1:123:A:GLU:HA	1:124:A:MET:HA	14	0.12
(1,152)	1:136:A:VAL:HA	1:136:A:VAL:HG13	12	0.12
(1,150)	1:136:A:VAL:HA	1:146:A:THR:HG22	3	0.12
(1,147)	1:136:A:VAL:HA	1:137:A:SER:HB2	15	0.12
(1,147)	1:136:A:VAL:HA	1:137:A:SER:HB2	17	0.12
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	6	0.12
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	7	0.12
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	12	0.12
(1,145)	1:123:A:GLU:HA	1:120:A:SER:H	2	0.12
(1,145)	1:123:A:GLU:HA	1:120:A:SER:H	8	0.12
(1,145)	1:123:A:GLU:HA	1:120:A:SER:H	19	0.12
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	7	0.12
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	10	0.12
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	14	0.12
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	15	0.12
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	19	0.12
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	4	0.12
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	12	0.12
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	17	0.12
(1,91)	1:111:A:VAL:H	1:111:A:VAL:HA	2	0.12
(1,91)	1:111:A:VAL:H	1:111:A:VAL:HA	4	0.12
(1,91)	1:111:A:VAL:H	1:111:A:VAL:HA	6	0.12
(1,91)	1:111:A:VAL:H	1:111:A:VAL:HA	7	0.12
(1,91)	1:111:A:VAL:H	1:111:A:VAL:HA	9	0.12
(1,91)	1:111:A:VAL:H	1:111:A:VAL:HA	10	0.12
(1,91)	1:111:A:VAL:H	1:111:A:VAL:HA	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,91)	1:111:A:VAL:H	1:111:A:VAL:HA	14	0.12
(1,89)	1:118:A:THR:HA	1:117:A:MET:HG2	12	0.12
(1,60)	1:162:A:PRO:HA	1:161:A:PHE:HB3	10	0.12
(1,48)	1:125:A:VAL:HA	1:126:A:LYS:HG2	4	0.12
(1,48)	1:125:A:VAL:HA	1:126:A:LYS:HG2	6	0.12
(1,48)	1:125:A:VAL:HA	1:126:A:LYS:HG2	11	0.12
(1,48)	1:125:A:VAL:HA	1:126:A:LYS:HG2	17	0.12
(1,48)	1:125:A:VAL:HA	1:126:A:LYS:HG2	20	0.12
(1,45)	1:128:A:LEU:H	1:125:A:VAL:HA	8	0.12
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	12	0.12
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	15	0.12
(1,38)	1:118:A:THR:HB	1:179:A:HIS:HB2	15	0.12
(1,36)	1:118:A:THR:HB	1:117:A:MET:HG3	15	0.12
(1,34)	1:131:A:THR:HB	1:127:A:LEU:HB2	15	0.12
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	1	0.12
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	5	0.12
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	12	0.12
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	14	0.12
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	15	0.12
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG23	1	0.11
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG23	2	0.11
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG23	4	0.11
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG12	7	0.11
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG22	10	0.11
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG12	13	0.11
(2,276)	1:147:A:VAL:HB	1:147:A:VAL:HG22	18	0.11
(2,274)	1:140:A:THR:HG22	1:138:A:LYS:HE2	7	0.11
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG12	1	0.11
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG13	4	0.11
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG13	7	0.11
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG13	9	0.11
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG13	11	0.11
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG13	16	0.11
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG13	18	0.11
(2,269)	1:113:A:LEU:HD13	1:113:A:LEU:HB3	6	0.11
(2,253)	1:138:A:LYS:HE2	1:138:A:LYS:HG3	2	0.11
(2,253)	1:138:A:LYS:HE2	1:138:A:LYS:HG3	6	0.11
(2,253)	1:138:A:LYS:HE2	1:138:A:LYS:HG3	13	0.11
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	11	0.11
(2,249)	1:138:A:LYS:HG3	1:139:A:MET:HA	15	0.11
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	6	0.11
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,206)	1:126:A:LYS:HD3	1:126:A:LYS:HE2	11	0.11
(2,184)	1:153:A:GLU:HB2	1:153:A:GLU:HG3	1	0.11
(2,178)	1:166:A:GLU:HB3	1:166:A:GLU:H	11	0.11
(2,153)	1:168:A:GLN:HG2	1:168:A:GLN:HA	8	0.11
(2,153)	1:168:A:GLN:HG3	1:168:A:GLN:HA	12	0.11
(2,109)	1:154:A:MET:HB3	1:173:A:LEU:HG	20	0.11
(2,103)	1:134:A:ARG:HD3	1:128:A:LEU:HB2	3	0.11
(2,91)	1:163:A:ASP:HA	1:163:A:ASP:HB2	3	0.11
(2,90)	1:163:A:ASP:HB3	1:164:A:SER:H	17	0.11
(2,84)	1:165:A:LYS:HE2	1:160:A:ASP:HA	5	0.11
(2,53)	1:177:A:GLY:HA2	1:178:A:ASP:HB2	6	0.11
(2,46)	1:153:A:GLU:HA	1:186:A:MET:HG3	3	0.11
(2,15)	1:169:A:VAL:HA	1:169:A:VAL:HG21	17	0.11
(2,2)	1:140:A:THR:HB	1:138:A:LYS:HE2	7	0.11
(1,1265)	1:110:A:MET:H	1:111:A:VAL:H	3	0.11
(1,1228)	1:179:A:HIS:H	1:177:A:GLY:HA3	1	0.11
(1,1228)	1:179:A:HIS:H	1:177:A:GLY:HA3	17	0.11
(1,1219)	1:164:A:SER:H	1:162:A:PRO:HG2	6	0.11
(1,1217)	1:177:A:GLY:H	1:176:A:ASP:HA	14	0.11
(1,1176)	1:114:A:GLU:H	1:114:A:GLU:HB2	17	0.11
(1,1159)	1:159:A:PHE:H	1:158:A:PRO:HB2	3	0.11
(1,1158)	1:159:A:PHE:H	1:158:A:PRO:HB3	19	0.11
(1,1144)	1:155:A:ILE:H	1:170:A:ARG:HB3	3	0.11
(1,1126)	1:110:A:MET:H	1:110:A:MET:HA	1	0.11
(1,1126)	1:110:A:MET:H	1:110:A:MET:HA	6	0.11
(1,1126)	1:110:A:MET:H	1:110:A:MET:HA	8	0.11
(1,1126)	1:110:A:MET:H	1:110:A:MET:HA	11	0.11
(1,1126)	1:110:A:MET:H	1:110:A:MET:HA	16	0.11
(1,1126)	1:110:A:MET:H	1:110:A:MET:HA	17	0.11
(1,1111)	1:147:A:VAL:H	1:146:A:THR:HB	12	0.11
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	8	0.11
(1,1076)	1:170:A:ARG:H	1:169:A:VAL:H	13	0.11
(1,1070)	1:161:A:PHE:H	1:160:A:ASP:HB3	5	0.11
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	1	0.11
(1,1020)	1:180:A:LEU:H	1:119:A:ILE:HG22	12	0.11
(1,1010)	1:175:A:PHE:H	1:176:A:ASP:H	10	0.11
(1,1008)	1:175:A:PHE:H	1:175:A:PHE:HB3	2	0.11
(1,1008)	1:175:A:PHE:H	1:175:A:PHE:HB3	13	0.11
(1,1008)	1:175:A:PHE:H	1:175:A:PHE:HB3	19	0.11
(1,1002)	1:165:A:LYS:H	1:166:A:GLU:HG2	9	0.11
(1,989)	1:153:A:GLU:H	1:154:A:MET:H	1	0.11
(1,989)	1:153:A:GLU:H	1:154:A:MET:H	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,989)	1:153:A:GLU:H	1:154:A:MET:H	3	0.11
(1,989)	1:153:A:GLU:H	1:154:A:MET:H	13	0.11
(1,989)	1:153:A:GLU:H	1:154:A:MET:H	16	0.11
(1,988)	1:153:A:GLU:H	1:146:A:THR:H	17	0.11
(1,980)	1:139:A:MET:H	1:140:A:THR:H	2	0.11
(1,980)	1:139:A:MET:H	1:140:A:THR:H	14	0.11
(1,977)	1:135:A:GLN:H	1:134:A:ARG:HB2	6	0.11
(1,959)	1:170:A:ARG:H	1:170:A:ARG:HB2	1	0.11
(1,959)	1:170:A:ARG:H	1:170:A:ARG:HB2	4	0.11
(1,959)	1:170:A:ARG:H	1:170:A:ARG:HB2	8	0.11
(1,959)	1:170:A:ARG:H	1:170:A:ARG:HB2	9	0.11
(1,959)	1:170:A:ARG:H	1:170:A:ARG:HB2	16	0.11
(1,959)	1:170:A:ARG:H	1:170:A:ARG:HB2	18	0.11
(1,951)	1:129:A:GLU:HG2	1:129:A:GLU:HB3	14	0.11
(1,932)	1:119:A:ILE:HD12	1:117:A:MET:HG3	2	0.11
(1,927)	1:120:A:SER:H	1:119:A:ILE:HD11	18	0.11
(1,923)	1:183:A:ILE:HD11	1:114:A:GLU:H	20	0.11
(1,915)	1:182:A:THR:HA	1:183:A:ILE:HD12	1	0.11
(1,891)	1:119:A:ILE:HA	1:119:A:ILE:HG21	16	0.11
(1,891)	1:119:A:ILE:HA	1:119:A:ILE:HG21	20	0.11
(1,844)	1:139:A:MET:HB3	1:136:A:VAL:HG13	17	0.11
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB1	2	0.11
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB2	9	0.11
(1,819)	1:174:A:THR:HB	1:174:A:THR:HG23	19	0.11
(1,805)	1:139:A:MET:HA	1:136:A:VAL:HG21	13	0.11
(1,803)	1:136:A:VAL:HG23	1:134:A:ARG:H	6	0.11
(1,795)	1:182:A:THR:HG22	1:193:A:GLY:HA3	11	0.11
(1,794)	1:182:A:THR:HB	1:182:A:THR:HG23	4	0.11
(1,794)	1:182:A:THR:HB	1:182:A:THR:HG22	14	0.11
(1,794)	1:182:A:THR:HB	1:182:A:THR:HG21	20	0.11
(1,793)	1:182:A:THR:HG22	1:194:A:PHE:H	2	0.11
(1,792)	1:183:A:ILE:H	1:182:A:THR:HG22	9	0.11
(1,779)	1:183:A:ILE:H	1:184:A:VAL:HG22	4	0.11
(1,764)	1:114:A:GLU:H	1:113:A:LEU:HD21	10	0.11
(1,736)	1:171:A:ALA:H	1:171:A:ALA:HB2	1	0.11
(1,736)	1:171:A:ALA:H	1:171:A:ALA:HB3	2	0.11
(1,736)	1:171:A:ALA:H	1:171:A:ALA:HB1	6	0.11
(1,736)	1:171:A:ALA:H	1:171:A:ALA:HB1	7	0.11
(1,736)	1:171:A:ALA:H	1:171:A:ALA:HB3	8	0.11
(1,721)	1:197:A:LEU:HD21	1:175:A:PHE:H	19	0.11
(1,684)	1:113:A:LEU:HD21	1:183:A:ILE:HD13	8	0.11
(1,681)	1:141:A:ARG:HG3	1:141:A:ARG:H	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,672)	1:173:A:LEU:HD11	1:183:A:ILE:HD13	4	0.11
(1,653)	1:183:A:ILE:HG13	1:180:A:LEU:HD11	1	0.11
(1,653)	1:183:A:ILE:HG13	1:180:A:LEU:HD12	11	0.11
(1,653)	1:183:A:ILE:HG13	1:180:A:LEU:HD13	20	0.11
(1,646)	1:183:A:ILE:HG12	1:173:A:LEU:HG	12	0.11
(1,646)	1:183:A:ILE:HG12	1:173:A:LEU:HG	20	0.11
(1,638)	1:170:A:ARG:HG3	1:155:A:ILE:HG22	12	0.11
(1,620)	1:126:A:LYS:HD2	1:123:A:GLU:H	6	0.11
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	2	0.11
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	4	0.11
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	7	0.11
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	8	0.11
(1,619)	1:126:A:LYS:HD2	1:122:A:ASN:HA	9	0.11
(1,599)	1:168:A:GLN:HB2	1:169:A:VAL:H	4	0.11
(1,591)	1:189:A:ASN:H	1:187:A:GLU:HB2	4	0.11
(1,545)	1:179:A:HIS:HB2	1:179:A:HIS:H	10	0.11
(1,529)	1:180:A:LEU:HB3	1:117:A:MET:HG3	19	0.11
(1,526)	1:117:A:MET:HG2	1:180:A:LEU:HB3	19	0.11
(1,507)	1:147:A:VAL:HB	1:135:A:GLN:H	5	0.11
(1,507)	1:147:A:VAL:HB	1:135:A:GLN:H	14	0.11
(1,507)	1:147:A:VAL:HB	1:135:A:GLN:H	18	0.11
(1,505)	1:139:A:MET:HB2	1:136:A:VAL:HG13	17	0.11
(1,503)	1:139:A:MET:HB2	1:145:A:PHE:HB2	7	0.11
(1,501)	1:144:A:GLU:HB3	1:133:A:TYR:HA	19	0.11
(1,494)	1:117:A:MET:HB2	1:180:A:LEU:HB3	9	0.11
(1,480)	1:170:A:ARG:H	1:169:A:VAL:HB	3	0.11
(1,480)	1:170:A:ARG:H	1:169:A:VAL:HB	11	0.11
(1,480)	1:170:A:ARG:H	1:169:A:VAL:HB	16	0.11
(1,477)	1:167:A:GLY:H	1:166:A:GLU:HG3	20	0.11
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG22	1	0.11
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG21	3	0.11
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG23	5	0.11
(1,475)	1:184:A:VAL:HB	1:183:A:ILE:HG23	17	0.11
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	5	0.11
(1,457)	1:187:A:GLU:HG3	1:186:A:MET:HB2	11	0.11
(1,437)	1:189:A:ASN:HA	1:189:A:ASN:HB3	3	0.11
(1,437)	1:189:A:ASN:HA	1:189:A:ASN:HB3	13	0.11
(1,421)	1:119:A:ILE:HB	1:117:A:MET:HG2	7	0.11
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	11	0.11
(1,403)	1:159:A:PHE:HA	1:160:A:ASP:HB2	12	0.11
(1,387)	1:175:A:PHE:HB2	1:180:A:LEU:HA	2	0.11
(1,387)	1:175:A:PHE:HB2	1:180:A:LEU:HA	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	18	0.11
(1,347)	1:177:A:GLY:HA2	1:179:A:HIS:H	6	0.11
(1,347)	1:177:A:GLY:HA2	1:179:A:HIS:H	12	0.11
(1,347)	1:177:A:GLY:HA2	1:179:A:HIS:H	13	0.11
(1,347)	1:177:A:GLY:HA2	1:179:A:HIS:H	20	0.11
(1,345)	1:171:A:ALA:HA	1:169:A:VAL:HG11	6	0.11
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	8	0.11
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	14	0.11
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	17	0.11
(1,328)	1:188:A:ASN:HA	1:187:A:GLU:HB2	10	0.11
(1,328)	1:188:A:ASN:HA	1:187:A:GLU:HB2	11	0.11
(1,328)	1:188:A:ASN:HA	1:187:A:GLU:HB2	15	0.11
(1,328)	1:188:A:ASN:HA	1:187:A:GLU:HB2	18	0.11
(1,309)	1:166:A:GLU:HA	1:160:A:ASP:HA	16	0.11
(1,294)	1:160:A:ASP:HA	1:161:A:PHE:HB2	2	0.11
(1,294)	1:160:A:ASP:HA	1:161:A:PHE:HB2	19	0.11
(1,294)	1:160:A:ASP:HA	1:161:A:PHE:HB2	20	0.11
(1,252)	1:153:A:GLU:HA	1:173:A:LEU:HD23	5	0.11
(1,252)	1:153:A:GLU:HA	1:173:A:LEU:HD23	8	0.11
(1,252)	1:153:A:GLU:HA	1:173:A:LEU:HD21	12	0.11
(1,247)	1:170:A:ARG:HA	1:155:A:ILE:HD13	11	0.11
(1,247)	1:170:A:ARG:HA	1:155:A:ILE:HD11	12	0.11
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	7	0.11
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	8	0.11
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	11	0.11
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	16	0.11
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	17	0.11
(1,244)	1:170:A:ARG:HA	1:170:A:ARG:HG2	20	0.11
(1,228)	1:111:A:VAL:HA	1:110:A:MET:HA	15	0.11
(1,214)	1:122:A:ASN:HA	1:126:A:LYS:H	5	0.11
(1,214)	1:122:A:ASN:HA	1:126:A:LYS:H	17	0.11
(1,210)	1:159:A:PHE:HD2	1:159:A:PHE:HA	4	0.11
(1,194)	1:145:A:PHE:HA	1:136:A:VAL:HG12	15	0.11
(1,167)	1:186:A:MET:H	1:187:A:GLU:HA	5	0.11
(1,167)	1:186:A:MET:H	1:187:A:GLU:HA	8	0.11
(1,166)	1:188:A:ASN:H	1:187:A:GLU:HA	2	0.11
(1,166)	1:188:A:ASN:H	1:187:A:GLU:HA	5	0.11
(1,166)	1:188:A:ASN:H	1:187:A:GLU:HA	9	0.11
(1,166)	1:188:A:ASN:H	1:187:A:GLU:HA	15	0.11
(1,166)	1:188:A:ASN:H	1:187:A:GLU:HA	16	0.11
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	7	0.11
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	9	0.11
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	10	0.11
(1,162)	1:123:A:GLU:HA	1:123:A:GLU:HB2	12	0.11
(1,159)	1:123:A:GLU:HA	1:127:A:LEU:H	14	0.11
(1,159)	1:123:A:GLU:HA	1:127:A:LEU:H	15	0.11
(1,152)	1:136:A:VAL:HA	1:136:A:VAL:HG12	6	0.11
(1,152)	1:136:A:VAL:HA	1:136:A:VAL:HG11	9	0.11
(1,147)	1:136:A:VAL:HA	1:137:A:SER:HB2	3	0.11
(1,147)	1:136:A:VAL:HA	1:137:A:SER:HB2	10	0.11
(1,146)	1:123:A:GLU:HA	1:122:A:ASN:H	1	0.11
(1,145)	1:123:A:GLU:HA	1:120:A:SER:H	6	0.11
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	8	0.11
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	2	0.11
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	11	0.11
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	19	0.11
(1,97)	1:183:A:ILE:HA	1:172:A:ARG:H	20	0.11
(1,91)	1:111:A:VAL:H	1:111:A:VAL:HA	5	0.11
(1,91)	1:111:A:VAL:H	1:111:A:VAL:HA	19	0.11
(1,89)	1:118:A:THR:HA	1:117:A:MET:HG2	9	0.11
(1,59)	1:162:A:PRO:HA	1:162:A:PRO:HD2	3	0.11
(1,59)	1:162:A:PRO:HA	1:162:A:PRO:HD2	4	0.11
(1,59)	1:162:A:PRO:HA	1:162:A:PRO:HD2	6	0.11
(1,48)	1:125:A:VAL:HA	1:126:A:LYS:HG2	7	0.11
(1,48)	1:125:A:VAL:HA	1:126:A:LYS:HG2	9	0.11
(1,48)	1:125:A:VAL:HA	1:126:A:LYS:HG2	16	0.11
(1,48)	1:125:A:VAL:HA	1:126:A:LYS:HG2	18	0.11
(1,45)	1:128:A:LEU:H	1:125:A:VAL:HA	19	0.11
(1,44)	1:125:A:VAL:HA	1:122:A:ASN:HA	2	0.11
(1,38)	1:118:A:THR:HB	1:179:A:HIS:HB2	3	0.11
(1,38)	1:118:A:THR:HB	1:179:A:HIS:HB2	12	0.11
(1,37)	1:118:A:THR:HB	1:179:A:HIS:HB3	1	0.11
(1,35)	1:131:A:THR:HB	1:133:A:TYR:HD2	4	0.11
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	6	0.11
(1,3)	1:183:A:ILE:H	1:182:A:THR:HB	20	0.11
(2,280)	1:125:A:VAL:HG23	1:124:A:MET:H	1	0.1
(2,274)	1:140:A:THR:HG21	1:138:A:LYS:HE2	10	0.1
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG11	3	0.1
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG11	5	0.1
(2,273)	1:169:A:VAL:HB	1:169:A:VAL:HG13	8	0.1
(2,253)	1:138:A:LYS:HE2	1:138:A:LYS:HG3	8	0.1
(2,208)	1:126:A:LYS:HD2	1:122:A:ASN:HB3	10	0.1
(2,198)	1:154:A:MET:HG2	1:154:A:MET:H	13	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,178)	1:166:A:GLU:HB3	1:166:A:GLU:H	19	0.1
(2,153)	1:168:A:GLN:HG2	1:168:A:GLN:HA	3	0.1
(2,153)	1:168:A:GLN:HG3	1:168:A:GLN:HA	5	0.1
(2,127)	1:123:A:GLU:HG3	1:120:A:SER:H	4	0.1
(2,122)	1:123:A:GLU:HG2	1:127:A:LEU:HD13	13	0.1
(2,113)	1:122:A:ASN:HB3	1:123:A:GLU:H	9	0.1
(2,113)	1:122:A:ASN:HB3	1:123:A:GLU:H	10	0.1
(2,99)	1:150:A:ASN:HB2	1:197:A:LEU:HB3	18	0.1
(2,94)	1:160:A:ASP:HB2	1:165:A:LYS:HD3	10	0.1
(2,73)	1:144:A:GLU:HA	1:134:A:ARG:HD3	5	0.1
(2,71)	1:141:A:ARG:HA	1:141:A:ARG:HD3	14	0.1
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD3	1	0.1
(2,70)	1:170:A:ARG:HA	1:170:A:ARG:HD3	15	0.1
(2,66)	1:170:A:ARG:HD2	1:187:A:GLU:H	11	0.1
(2,15)	1:169:A:VAL:HA	1:169:A:VAL:HG22	2	0.1
(2,14)	1:111:A:VAL:HA	1:110:A:MET:HG3	14	0.1
(1,1265)	1:110:A:MET:H	1:111:A:VAL:H	6	0.1
(1,1228)	1:179:A:HIS:H	1:177:A:GLY:HA3	12	0.1
(1,1228)	1:179:A:HIS:H	1:177:A:GLY:HA3	18	0.1
(1,1224)	1:163:A:ASP:H	1:161:A:PHE:HA	4	0.1
(1,1219)	1:164:A:SER:H	1:162:A:PRO:HG2	13	0.1
(1,1219)	1:164:A:SER:H	1:162:A:PRO:HG2	15	0.1
(1,1211)	1:122:A:ASN:H	1:122:A:ASN:HA	4	0.1
(1,1211)	1:122:A:ASN:H	1:122:A:ASN:HA	6	0.1
(1,1200)	1:140:A:THR:H	1:155:A:ILE:HD13	12	0.1
(1,1176)	1:114:A:GLU:H	1:114:A:GLU:HB2	19	0.1
(1,1156)	1:168:A:GLN:H	1:168:A:GLN:HB3	1	0.1
(1,1141)	1:155:A:ILE:H	1:143:A:GLY:H	14	0.1
(1,1141)	1:155:A:ILE:H	1:143:A:GLY:H	16	0.1
(1,1128)	1:110:A:MET:H	1:111:A:VAL:HG12	3	0.1
(1,1128)	1:110:A:MET:H	1:111:A:VAL:HG12	4	0.1
(1,1126)	1:110:A:MET:H	1:110:A:MET:HA	5	0.1
(1,1126)	1:110:A:MET:H	1:110:A:MET:HA	7	0.1
(1,1091)	1:144:A:GLU:H	1:155:A:ILE:H	11	0.1
(1,1036)	1:141:A:ARG:H	1:144:A:GLU:HB2	9	0.1
(1,1010)	1:175:A:PHE:H	1:176:A:ASP:H	1	0.1
(1,1008)	1:175:A:PHE:H	1:175:A:PHE:HB3	3	0.1
(1,1002)	1:165:A:LYS:H	1:166:A:GLU:HG2	14	0.1
(1,989)	1:153:A:GLU:H	1:154:A:MET:H	11	0.1
(1,989)	1:153:A:GLU:H	1:154:A:MET:H	15	0.1
(1,989)	1:153:A:GLU:H	1:154:A:MET:H	19	0.1
(1,989)	1:153:A:GLU:H	1:154:A:MET:H	20	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,980)	1:139:A:MET:H	1:140:A:THR:H	5	0.1
(1,980)	1:139:A:MET:H	1:140:A:THR:H	9	0.1
(1,977)	1:135:A:GLN:H	1:134:A:ARG:HB2	9	0.1
(1,959)	1:170:A:ARG:H	1:170:A:ARG:HB2	14	0.1
(1,959)	1:170:A:ARG:H	1:170:A:ARG:HB2	20	0.1
(1,924)	1:183:A:ILE:HA	1:183:A:ILE:HD13	13	0.1
(1,885)	1:152:A:ILE:HG22	1:152:A:ILE:HD11	4	0.1
(1,880)	1:154:A:MET:HA	1:152:A:ILE:HG21	14	0.1
(1,844)	1:139:A:MET:HB3	1:136:A:VAL:HG11	16	0.1
(1,836)	1:182:A:THR:H	1:181:A:ALA:HB1	11	0.1
(1,804)	1:136:A:VAL:HG21	1:145:A:PHE:H	8	0.1
(1,782)	1:183:A:ILE:HA	1:184:A:VAL:HG22	7	0.1
(1,736)	1:171:A:ALA:H	1:171:A:ALA:HB2	5	0.1
(1,724)	1:124:A:MET:HA	1:127:A:LEU:HD12	2	0.1
(1,689)	1:197:A:LEU:HD11	1:174:A:THR:HA	17	0.1
(1,673)	1:173:A:LEU:HD13	1:180:A:LEU:HD12	5	0.1
(1,673)	1:173:A:LEU:HD11	1:180:A:LEU:HD13	15	0.1
(1,653)	1:183:A:ILE:HG13	1:180:A:LEU:HD13	6	0.1
(1,646)	1:183:A:ILE:HG12	1:173:A:LEU:HG	3	0.1
(1,480)	1:170:A:ARG:H	1:169:A:VAL:HB	4	0.1
(1,480)	1:170:A:ARG:H	1:169:A:VAL:HB	5	0.1
(1,480)	1:170:A:ARG:H	1:169:A:VAL:HB	13	0.1
(1,480)	1:170:A:ARG:H	1:169:A:VAL:HB	17	0.1
(1,477)	1:167:A:GLY:H	1:166:A:GLU:HG3	2	0.1
(1,477)	1:167:A:GLY:H	1:166:A:GLU:HG3	17	0.1
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	3	0.1
(1,474)	1:183:A:ILE:HA	1:184:A:VAL:HB	17	0.1
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	8	0.1
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	9	0.1
(1,406)	1:150:A:ASN:HB2	1:151:A:SER:HA	18	0.1
(1,384)	1:175:A:PHE:HB3	1:150:A:ASN:HA	6	0.1
(1,348)	1:178:A:ASP:H	1:177:A:GLY:HA2	14	0.1
(1,347)	1:177:A:GLY:HA2	1:179:A:HIS:H	5	0.1
(1,347)	1:177:A:GLY:HA2	1:179:A:HIS:H	18	0.1
(1,345)	1:171:A:ALA:HA	1:169:A:VAL:HG12	9	0.1
(1,330)	1:162:A:PRO:HD2	1:161:A:PHE:H	4	0.1
(1,328)	1:188:A:ASN:HA	1:187:A:GLU:HB2	1	0.1
(1,328)	1:188:A:ASN:HA	1:187:A:GLU:HB2	8	0.1
(1,308)	1:178:A:ASP:HA	1:120:A:SER:H	7	0.1
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	3	0.1
(1,307)	1:178:A:ASP:HA	1:121:A:LYS:H	8	0.1
(1,303)	1:197:A:LEU:HA	1:176:A:ASP:HA	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,303)	1:197:A:LEU:HA	1:176:A:ASP:HA	13	0.1
(1,252)	1:153:A:GLU:HA	1:173:A:LEU:HD22	2	0.1
(1,252)	1:153:A:GLU:HA	1:173:A:LEU:HD22	18	0.1
(1,214)	1:122:A:ASN:HA	1:126:A:LYS:H	2	0.1
(1,214)	1:122:A:ASN:HA	1:126:A:LYS:H	10	0.1
(1,213)	1:167:A:GLY:H	1:166:A:GLU:HA	17	0.1
(1,205)	1:145:A:PHE:HA	1:139:A:MET:HB2	11	0.1
(1,193)	1:117:A:MET:HA	1:117:A:MET:HB3	5	0.1
(1,188)	1:151:A:SER:HA	1:150:A:ASN:HB3	7	0.1
(1,167)	1:186:A:MET:H	1:187:A:GLU:HA	2	0.1
(1,167)	1:186:A:MET:H	1:187:A:GLU:HA	16	0.1
(1,167)	1:186:A:MET:H	1:187:A:GLU:HA	17	0.1
(1,166)	1:188:A:ASN:H	1:187:A:GLU:HA	11	0.1
(1,166)	1:188:A:ASN:H	1:187:A:GLU:HA	18	0.1
(1,147)	1:136:A:VAL:HA	1:137:A:SER:HB2	2	0.1
(1,147)	1:136:A:VAL:HA	1:137:A:SER:HB2	12	0.1
(1,145)	1:123:A:GLU:HA	1:120:A:SER:H	11	0.1
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	6	0.1
(1,101)	1:131:A:THR:HA	1:130:A:ALA:H	13	0.1
(1,94)	1:118:A:THR:HA	1:119:A:ILE:HG13	14	0.1
(1,59)	1:162:A:PRO:HA	1:162:A:PRO:HD2	5	0.1
(1,59)	1:162:A:PRO:HA	1:162:A:PRO:HD2	10	0.1
(1,59)	1:162:A:PRO:HA	1:162:A:PRO:HD2	17	0.1
(1,48)	1:125:A:VAL:HA	1:126:A:LYS:HG2	5	0.1
(1,48)	1:125:A:VAL:HA	1:126:A:LYS:HG2	15	0.1
(1,48)	1:125:A:VAL:HA	1:126:A:LYS:HG2	19	0.1
(1,36)	1:118:A:THR:HB	1:117:A:MET:HG3	10	0.1
(1,35)	1:131:A:THR:HB	1:133:A:TYR:HD2	20	0.1
(1,13)	1:194:A:PHE:HD2	1:194:A:PHE:HA	12	0.1

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

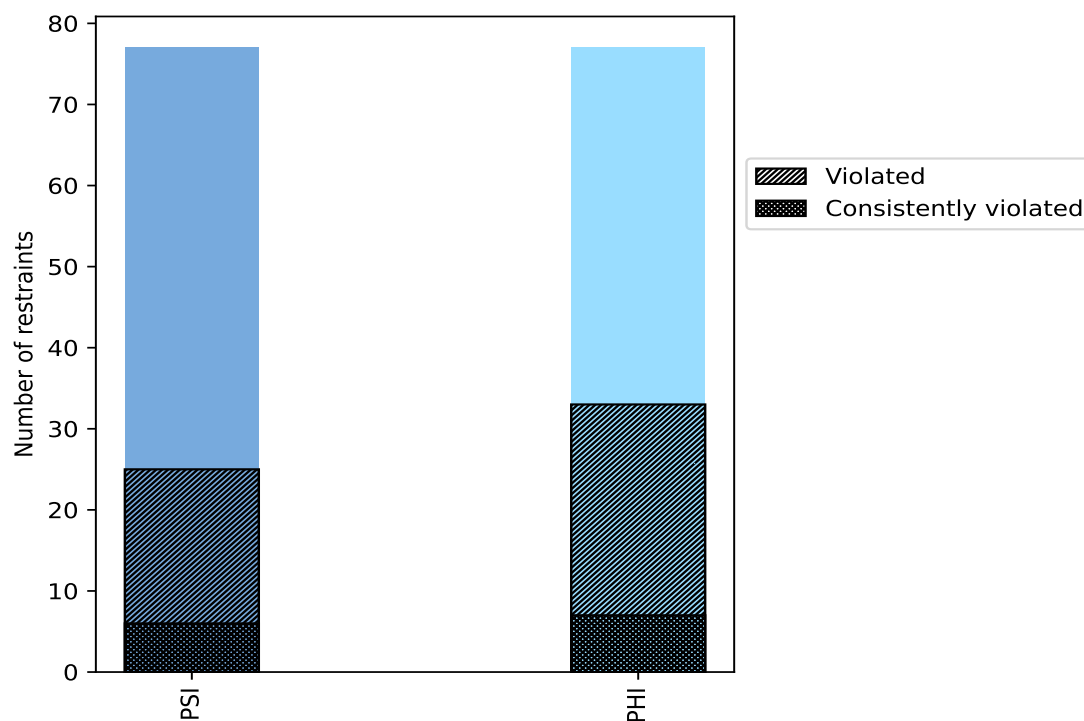
10.1 Summary of dihedral-angle violations [i](#)

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	77	50.0	25	32.5	16.2	6	7.8	3.9
PHI	77	50.0	33	42.9	21.4	7	9.1	4.5
Total	154	100.0	58	37.7	37.7	13	8.4	8.4

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](#)



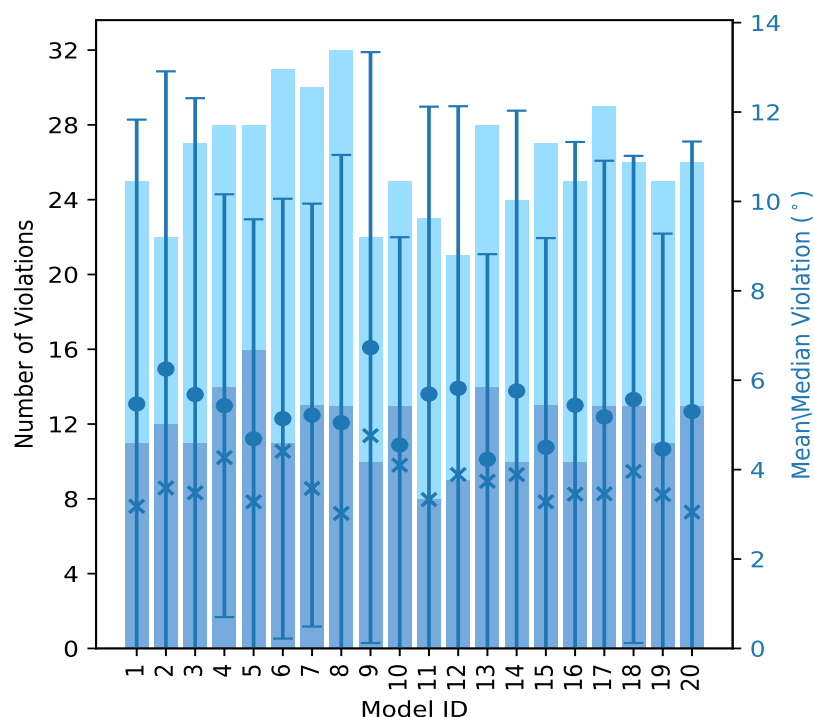
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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	11	14	25	5.47	27.37	6.36	3.18
2	12	10	22	6.25	26.38	6.66	3.59
3	11	16	27	5.68	29.01	6.63	3.48
4	14	14	28	5.43	24.6	4.73	4.27
5	16	12	28	4.69	27.92	4.91	3.28
6	11	20	31	5.14	24.97	4.92	4.41
7	13	17	30	5.22	25.1	4.73	3.58
8	13	19	32	5.05	28.37	5.99	3.02
9	10	12	22	6.73	27.16	6.61	4.76
10	13	12	25	4.55	25.15	4.65	4.1
11	8	15	23	5.69	25.39	6.43	3.33
12	9	12	21	5.82	24.16	6.31	3.89
13	14	14	28	4.23	25.88	4.59	3.74
14	10	14	24	5.76	26.33	6.27	3.89
15	13	14	27	4.5	26.29	4.68	3.28
16	10	15	25	5.44	24.34	5.89	3.45
17	13	16	29	5.18	26.06	5.73	3.46
18	13	13	26	5.57	27.79	5.45	3.96
19	11	14	25	4.46	26.05	4.82	3.44
20	13	13	26	5.3	25.75	6.04	3.05

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



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

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

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

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

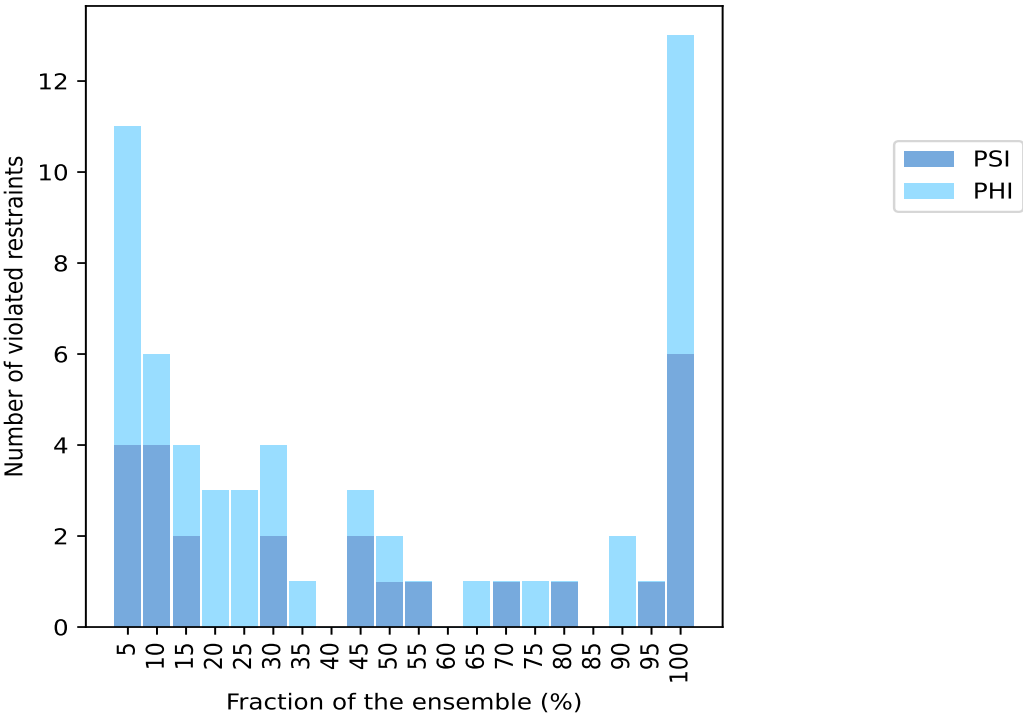
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Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count ¹	%
0	0	0	12	60.0
0	1	1	13	65.0
1	0	1	14	70.0
0	1	1	15	75.0
1	0	1	16	80.0
0	0	0	17	85.0
0	2	2	18	90.0
1	0	1	19	95.0
6	7	13	20	100.0

¹ Number of models with violations

10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble ⓘ

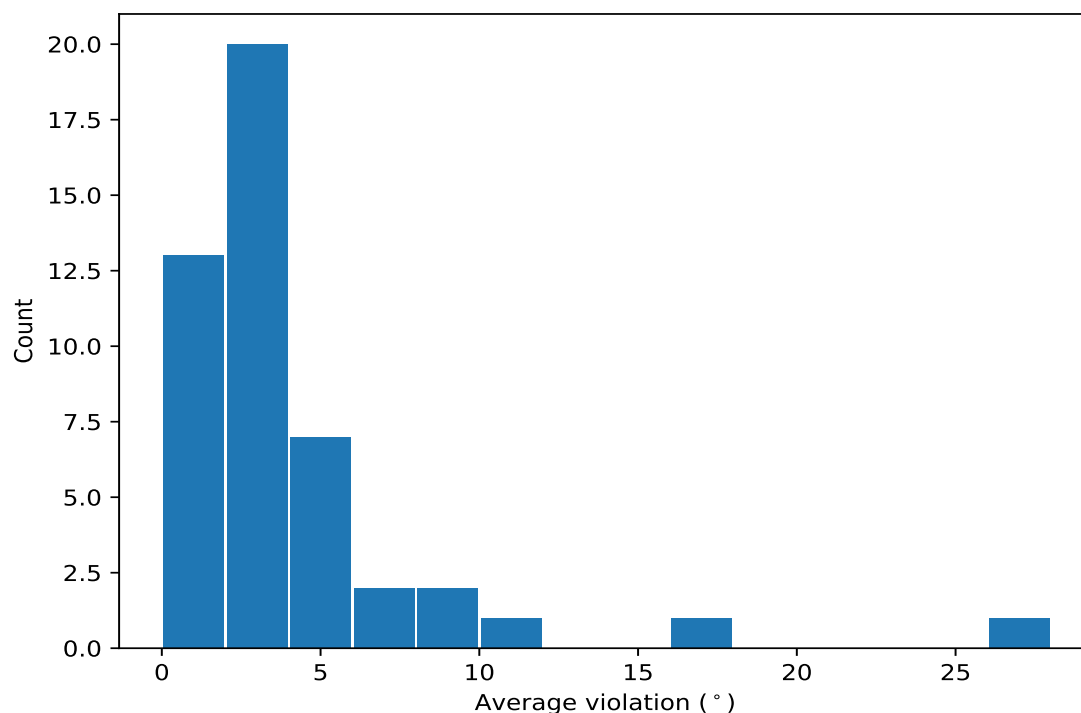


10.4 Most violated dihedral-angle restraints in the ensemble ⓘ

10.4.1 Histogram : Distribution of mean dihedral-angle violations ⓘ

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
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	20	26.02	1.48	25.96
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	20	16.36	9.0	22.65
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	20	8.99	1.17	8.88
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	20	6.94	0.7	6.67
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	20	6.91	1.47	6.79
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	20	5.06	1.07	5.02
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	20	4.25	1.03	4.14
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	20	4.13	0.7	4.11
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	20	4.03	0.52	4.08
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	20	3.96	0.43	4.02
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	20	3.86	0.74	3.95
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	20	2.95	0.64	3.0
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	20	2.47	0.48	2.54
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	19	2.28	0.6	2.34
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	18	3.46	1.91	3.0
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	18	2.51	1.29	2.02
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	16	2.18	1.37	1.95
(1,9)	1:115:A:PRO:C	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	15	10.05	1.52	10.22
(1,56)	1:139:A:MET:N	1:139:A:MET:CA	1:139:A:MET:C	1:140:A:THR:N	14	4.88	1.42	5.48
(1,21)	1:121:A:LYS:C	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	13	2.16	0.63	2.07

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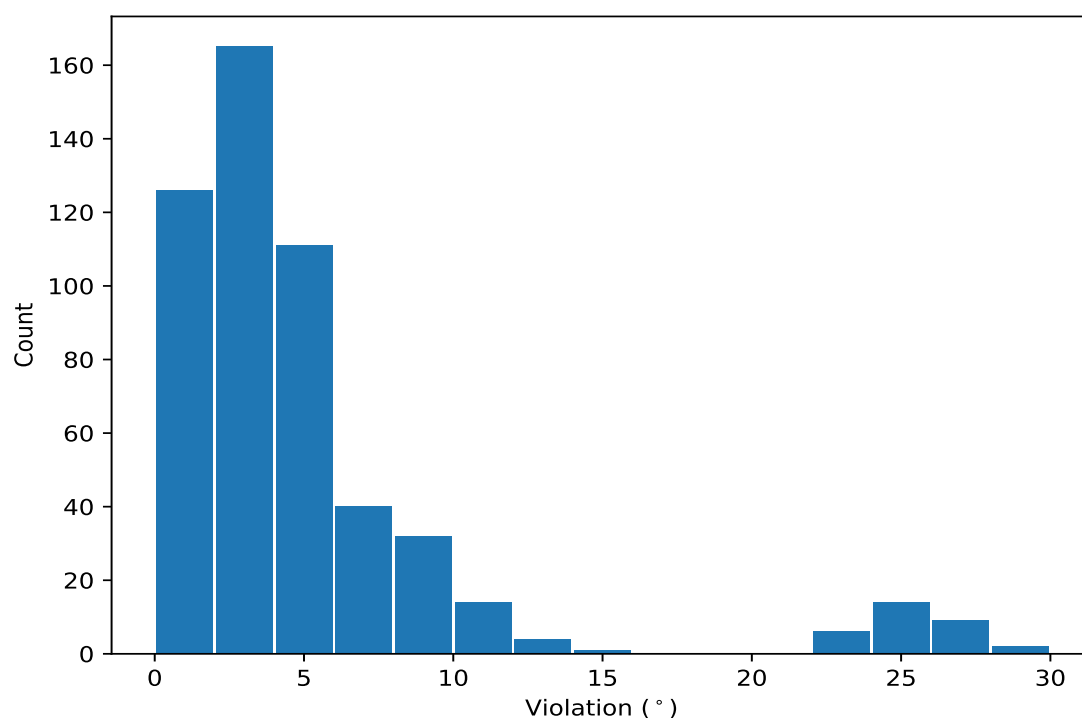
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,22)	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	1:123:A:GLU:N	11	2.36	0.87	2.27
(1,148)	1:194:A:PHE:N	1:194:A:PHE:CA	1:194:A:PHE:C	1:195:A:PHE:N	10	3.91	1.27	4.04
(1,149)	1:194:A:PHE:C	1:195:A:PHE:N	1:195:A:PHE:CA	1:195:A:PHE:C	10	3.22	1.1	3.08
(1,10)	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	1:117:A:MET:N	9	9.31	4.2	6.24
(1,123)	1:177:A:GLY:C	1:178:A:ASP:N	1:178:A:ASP:CA	1:178:A:ASP:C	9	1.67	0.5	1.74
(1,68)	1:145:A:PHE:N	1:145:A:PHE:CA	1:145:A:PHE:C	1:146:A:THR:N	9	1.47	0.22	1.54
(1,93)	1:159:A:PHE:C	1:160:A:ASP:N	1:160:A:ASP:CA	1:160:A:ASP:C	7	1.29	0.26	1.14
(1,152)	1:196:A:ARG:N	1:196:A:ARG:CA	1:196:A:ARG:C	1:197:A:LEU:N	6	3.45	1.45	4.13
(1,61)	1:141:A:ARG:C	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	6	1.41	0.31	1.33
(1,51)	1:136:A:VAL:C	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	6	1.31	0.13	1.32
(1,132)	1:182:A:THR:N	1:182:A:THR:CA	1:182:A:THR:C	1:183:A:ILE:N	6	1.25	0.15	1.2
(1,11)	1:116:A:ASP:C	1:117:A:MET:N	1:117:A:MET:CA	1:117:A:MET:C	5	5.63	2.27	5.73
(1,153)	1:196:A:ARG:C	1:197:A:LEU:N	1:197:A:LEU:CA	1:197:A:LEU:C	5	2.18	0.63	1.97
(1,151)	1:195:A:PHE:C	1:196:A:ARG:N	1:196:A:ARG:CA	1:196:A:ARG:C	5	1.57	0.48	1.4
(1,71)	1:146:A:THR:C	1:147:A:VAL:N	1:147:A:VAL:CA	1:147:A:VAL:C	4	2.23	0.51	2.44
(1,145)	1:188:A:ASN:C	1:189:A:ASN:N	1:189:A:ASN:CA	1:189:A:ASN:C	4	1.85	0.7	1.6
(1,47)	1:134:A:ARG:C	1:135:A:GLN:N	1:135:A:GLN:CA	1:135:A:GLN:C	4	1.7	0.8	1.4
(1,147)	1:193:A:GLY:C	1:194:A:PHE:N	1:194:A:PHE:CA	1:194:A:PHE:C	3	4.88	2.9	3.35
(1,154)	1:197:A:LEU:N	1:197:A:LEU:CA	1:197:A:LEU:C	1:198:A:ASP:N	3	2.26	0.65	2.58
(1,82)	1:154:A:MET:N	1:154:A:MET:CA	1:154:A:MET:C	1:155:A:ILE:N	3	1.96	0.49	1.8
(1,103)	1:167:A:GLY:C	1:168:A:GLN:N	1:168:A:GLN:CA	1:168:A:GLN:C	3	1.71	0.31	1.53
(1,105)	1:168:A:GLN:C	1:169:A:VAL:N	1:169:A:VAL:CA	1:169:A:VAL:C	2	2.86	1.23	2.86
(1,90)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:PHE:N	2	2.82	1.74	2.82
(1,6)	1:114:A:GLU:N	1:114:A:GLU:CA	1:114:A:GLU:C	1:115:A:PRO:N	2	2.44	1.13	2.44
(1,150)	1:195:A:PHE:N	1:195:A:PHE:CA	1:195:A:PHE:C	1:196:A:ARG:N	2	2.08	0.95	2.08
(1,46)	1:134:A:ARG:N	1:134:A:ARG:CA	1:134:A:ARG:C	1:135:A:GLN:N	2	1.31	0.21	1.31
(1,89)	1:157:A:ARG:C	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	2	1.23	0.01	1.23

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

10.5 All violated dihedral-angle restraints ⓘ

10.5.1 Histogram : Distribution of violations ⓘ

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 (°)
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	3	29.01
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	8	28.37
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	5	27.92
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	18	27.79
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	1	27.37
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	9	27.16
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	2	26.38
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	14	26.33
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	15	26.29
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	17	26.06
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	19	26.05
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	13	25.88
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	2	25.83
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	20	25.75
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	11	25.39
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	3	25.36
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	10	25.15
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	7	25.1
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	6	24.97
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	9	24.81
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	4	24.6

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	11	24.51
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	16	24.34
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	12	24.16
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	12	24.04
(1,58)	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1:141:A:ARG:N	14	23.63
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	20	23.02
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	8	22.96
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	16	22.79
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	1	22.76
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	17	22.54
(1,10)	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	1:117:A:MET:N	6	15.88
(1,10)	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	1:117:A:MET:N	7	13.39
(1,10)	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	1:117:A:MET:N	4	13.31
(1,10)	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	1:117:A:MET:N	18	13.0
(1,9)	1:115:A:PRO:C	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	8	12.29
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	8	11.9
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	18	11.86
(1,9)	1:115:A:PRO:C	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	14	11.18
(1,9)	1:115:A:PRO:C	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	16	11.13
(1,9)	1:115:A:PRO:C	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	9	10.97
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	3	10.95
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	1	10.94
(1,9)	1:115:A:PRO:C	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	17	10.92
(1,9)	1:115:A:PRO:C	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	2	10.91
(1,9)	1:115:A:PRO:C	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	1	10.7
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	6	10.46
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	20	10.28
(1,9)	1:115:A:PRO:C	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	3	10.22
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	4	10.07
(1,9)	1:115:A:PRO:C	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	11	9.99
(1,9)	1:115:A:PRO:C	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	7	9.95
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	7	9.78
(1,9)	1:115:A:PRO:C	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	4	9.61
(1,9)	1:115:A:PRO:C	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	20	9.52
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	18	9.51
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	9	9.44
(1,9)	1:115:A:PRO:C	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	12	9.39
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	13	9.3
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	17	9.15
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	5	9.0
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	6	8.99
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	19	8.98
(1,147)	1:193:A:GLY:C	1:194:A:PHE:N	1:194:A:PHE:CA	1:194:A:PHE:C	9	8.93
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	7	8.78
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	3	8.75
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	15	8.69
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	5	8.65
(1,9)	1:115:A:PRO:C	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	6	8.61
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	7	8.55
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	11	8.54
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	12	8.51

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	20	8.44
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	15	8.35
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	4	8.34
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	1	8.24
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	16	8.17
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	4	8.15
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	18	8.15
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	14	8.1
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	2	8.09
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	16	8.0
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	11	7.95
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	5	7.72
(1,11)	1:116:A:ASP:C	1:117:A:MET:N	1:117:A:MET:CA	1:117:A:MET:C	18	7.68
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	17	7.65
(1,11)	1:116:A:ASP:C	1:117:A:MET:N	1:117:A:MET:CA	1:117:A:MET:C	6	7.6
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	11	7.53
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	18	7.41
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	2	7.36
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	8	7.2
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	3	7.16
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	19	7.15
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	9	7.14
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	10	7.11
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	2	7.09
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	14	6.75
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	6	6.71
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	10	6.68
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	13	6.66
(1,56)	1:139:A:MET:N	1:139:A:MET:CA	1:139:A:MET:C	1:140:A:THR:N	8	6.63
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	12	6.61
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	15	6.6
(1,56)	1:139:A:MET:N	1:139:A:MET:CA	1:139:A:MET:C	1:140:A:THR:N	9	6.53
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	10	6.49
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	6	6.47
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	4	6.44
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	16	6.39
(1,59)	1:140:A:THR:C	1:141:A:ARG:N	1:141:A:ARG:CA	1:141:A:ARG:C	10	6.37
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	16	6.33
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	20	6.31
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	6	6.29
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	17	6.29
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	19	6.25
(1,10)	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	1:117:A:MET:N	19	6.24
(1,10)	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	1:117:A:MET:N	10	6.23
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	5	6.22
(1,62)	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	1:143:A:GLY:N	7	6.11
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	7	6.08
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	4	6.08
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	9	6.02
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	9	6.01
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	1	5.98

Continued on next page...

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	14	5.97
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	13	5.95
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	7	5.88
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	4	5.84
(1,148)	1:194:A:PHE:N	1:194:A:PHE:CA	1:194:A:PHE:C	1:195:A:PHE:N	17	5.83
(1,10)	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	1:117:A:MET:N	15	5.8
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	10	5.77
(1,56)	1:139:A:MET:N	1:139:A:MET:CA	1:139:A:MET:C	1:140:A:THR:N	7	5.76
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	8	5.73
(1,11)	1:116:A:ASP:C	1:117:A:MET:N	1:117:A:MET:CA	1:117:A:MET:C	4	5.73
(1,11)	1:116:A:ASP:C	1:117:A:MET:N	1:117:A:MET:CA	1:117:A:MET:C	7	5.73
(1,148)	1:194:A:PHE:N	1:194:A:PHE:CA	1:194:A:PHE:C	1:195:A:PHE:N	6	5.72
(1,56)	1:139:A:MET:N	1:139:A:MET:CA	1:139:A:MET:C	1:140:A:THR:N	6	5.66
(1,10)	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	1:117:A:MET:N	13	5.66
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	18	5.65
(1,56)	1:139:A:MET:N	1:139:A:MET:CA	1:139:A:MET:C	1:140:A:THR:N	5	5.65
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	19	5.62
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	5	5.59
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	12	5.58
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	14	5.52
(1,56)	1:139:A:MET:N	1:139:A:MET:CA	1:139:A:MET:C	1:140:A:THR:N	4	5.5
(1,56)	1:139:A:MET:N	1:139:A:MET:CA	1:139:A:MET:C	1:140:A:THR:N	10	5.5
(1,56)	1:139:A:MET:N	1:139:A:MET:CA	1:139:A:MET:C	1:140:A:THR:N	3	5.45
(1,56)	1:139:A:MET:N	1:139:A:MET:CA	1:139:A:MET:C	1:140:A:THR:N	14	5.42
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	18	5.42
(1,9)	1:115:A:PRO:C	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	18	5.41
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	11	5.4
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	2	5.33
(1,149)	1:194:A:PHE:C	1:195:A:PHE:N	1:195:A:PHE:CA	1:195:A:PHE:C	6	5.2
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	3	5.2
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	14	5.17
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	17	5.16
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	20	5.15
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	6	5.1
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	4	5.09
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	8	5.08
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	14	4.97
(1,152)	1:196:A:ARG:N	1:196:A:ARG:CA	1:196:A:ARG:C	1:197:A:LEU:N	15	4.95
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	6	4.89
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	16	4.89
(1,149)	1:194:A:PHE:C	1:195:A:PHE:N	1:195:A:PHE:CA	1:195:A:PHE:C	17	4.87
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	10	4.86
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	12	4.84
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	9	4.83
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	9	4.81
(1,56)	1:139:A:MET:N	1:139:A:MET:CA	1:139:A:MET:C	1:140:A:THR:N	2	4.77
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	20	4.75
(1,148)	1:194:A:PHE:N	1:194:A:PHE:CA	1:194:A:PHE:C	1:195:A:PHE:N	4	4.73
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	18	4.72
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	14	4.72
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	8	4.71

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	9	4.71
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	10	4.69
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	16	4.61
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	9	4.6
(1,90)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:PHE:N	7	4.57
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	15	4.54
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	11	4.54
(1,152)	1:196:A:ARG:N	1:196:A:ARG:CA	1:196:A:ARG:C	1:197:A:LEU:N	5	4.53
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	6	4.52
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	3	4.51
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	2	4.5
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	15	4.49
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	15	4.49
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	3	4.46
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	13	4.45
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	17	4.45
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	20	4.41
(1,43)	1:132:A:GLN:C	1:133:A:TYR:N	1:133:A:TYR:CA	1:133:A:TYR:C	6	4.41
(1,148)	1:194:A:PHE:N	1:194:A:PHE:CA	1:194:A:PHE:C	1:195:A:PHE:N	8	4.37
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	4	4.36
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	13	4.33
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	19	4.33
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	13	4.32
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	13	4.31
(1,10)	1:116:A:ASP:N	1:116:A:ASP:CA	1:116:A:ASP:C	1:117:A:MET:N	5	4.31
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	3	4.3
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	1	4.29
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	17	4.28
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	5	4.28
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	11	4.21
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	13	4.21
(1,91)	1:158:A:PRO:C	1:159:A:PHE:N	1:159:A:PHE:CA	1:159:A:PHE:C	7	4.2
(1,152)	1:196:A:ARG:N	1:196:A:ARG:CA	1:196:A:ARG:C	1:197:A:LEU:N	13	4.19
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	4	4.18
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	14	4.18
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	16	4.17
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	20	4.16
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	11	4.13
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	19	4.13
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	12	4.12
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	3	4.12
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	18	4.12
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	10	4.12
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	19	4.12
(1,148)	1:194:A:PHE:N	1:194:A:PHE:CA	1:194:A:PHE:C	1:195:A:PHE:N	13	4.11
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	10	4.11
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	15	4.11
(1,105)	1:168:A:GLN:C	1:169:A:VAL:N	1:169:A:VAL:CA	1:169:A:VAL:C	10	4.1
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	16	4.1
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	13	4.09
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	12	4.09

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	1	4.08
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	12	4.08
(1,152)	1:196:A:ARG:N	1:196:A:ARG:CA	1:196:A:ARG:C	1:197:A:LEU:N	17	4.07
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	15	4.06
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	15	4.06
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	1	4.06
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	2	4.03
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	3	4.02
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	19	3.98
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	8	3.98
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	18	3.98
(1,148)	1:194:A:PHE:N	1:194:A:PHE:CA	1:194:A:PHE:C	1:195:A:PHE:N	5	3.97
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	1	3.96
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	18	3.94
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	11	3.92
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	6	3.91
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	16	3.9
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	12	3.89
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	13	3.87
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	10	3.82
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	18	3.81
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	7	3.81
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	15	3.8
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	9	3.77
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	20	3.77
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	7	3.74
(1,22)	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	1:123:A:GLU:N	20	3.74
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	8	3.7
(1,56)	1:139:A:MET:N	1:139:A:MET:CA	1:139:A:MET:C	1:140:A:THR:N	12	3.68
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	1	3.67
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	17	3.65
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	9	3.62
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	2	3.62
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	13	3.61
(1,22)	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	1:123:A:GLU:N	19	3.61
(1,21)	1:121:A:LYS:C	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	14	3.61
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	4	3.61
(1,149)	1:194:A:PHE:C	1:195:A:PHE:N	1:195:A:PHE:CA	1:195:A:PHE:C	4	3.6
(1,149)	1:194:A:PHE:C	1:195:A:PHE:N	1:195:A:PHE:CA	1:195:A:PHE:C	13	3.6
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	8	3.59
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	4	3.58
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	12	3.58
(1,6)	1:114:A:GLU:N	1:114:A:GLU:CA	1:114:A:GLU:C	1:115:A:PRO:N	5	3.57
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	2	3.56
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	14	3.54
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	6	3.52
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	5	3.51
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	17	3.5
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	3	3.48
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	19	3.48
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	2	3.48

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	17	3.46
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	8	3.45
(1,21)	1:121:A:LYS:C	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	16	3.45
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	19	3.44
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	7	3.41
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	12	3.39
(1,147)	1:193:A:GLY:C	1:194:A:PHE:N	1:194:A:PHE:CA	1:194:A:PHE:C	19	3.35
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	7	3.33
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	11	3.33
(1,149)	1:194:A:PHE:C	1:195:A:PHE:N	1:195:A:PHE:CA	1:195:A:PHE:C	5	3.29
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	15	3.28
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	5	3.28
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	5	3.27
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	5	3.26
(1,56)	1:139:A:MET:N	1:139:A:MET:CA	1:139:A:MET:C	1:140:A:THR:N	1	3.23
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	16	3.2
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	11	3.2
(1,22)	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	1:123:A:GLU:N	17	3.19
(1,148)	1:194:A:PHE:N	1:194:A:PHE:CA	1:194:A:PHE:C	1:195:A:PHE:N	1	3.18
(1,153)	1:196:A:ARG:C	1:197:A:LEU:N	1:197:A:LEU:CA	1:197:A:LEU:C	15	3.17
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	20	3.17
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	9	3.16
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	3	3.16
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	3	3.16
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	11	3.13
(1,39)	1:130:A:ALA:C	1:131:A:THR:N	1:131:A:THR:CA	1:131:A:THR:C	4	3.12
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	2	3.11
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	8	3.11
(1,52)	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1:138:A:LYS:N	7	3.11
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	1	3.06
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	7	3.06
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	10	3.04
(1,150)	1:195:A:PHE:N	1:195:A:PHE:CA	1:195:A:PHE:C	1:196:A:ARG:N	8	3.03
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	9	3.03
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	17	3.03
(1,145)	1:188:A:ASN:C	1:189:A:ASN:N	1:189:A:ASN:CA	1:189:A:ASN:C	8	3.02
(1,47)	1:134:A:ARG:C	1:135:A:GLN:N	1:135:A:GLN:CA	1:135:A:GLN:C	7	2.99
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	7	2.99
(1,66)	1:144:A:GLU:N	1:144:A:GLU:CA	1:144:A:GLU:C	1:145:A:PHE:N	8	2.97
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1	2.97
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	18	2.94
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	20	2.93
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	13	2.9
(1,56)	1:139:A:MET:N	1:139:A:MET:CA	1:139:A:MET:C	1:140:A:THR:N	18	2.89
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	17	2.89
(1,149)	1:194:A:PHE:C	1:195:A:PHE:N	1:195:A:PHE:CA	1:195:A:PHE:C	8	2.87
(1,154)	1:197:A:LEU:N	1:197:A:LEU:CA	1:197:A:LEU:C	1:198:A:ASP:N	15	2.84
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	19	2.83
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	14	2.82
(1,149)	1:194:A:PHE:C	1:195:A:PHE:N	1:195:A:PHE:CA	1:195:A:PHE:C	16	2.8
(1,148)	1:194:A:PHE:N	1:194:A:PHE:CA	1:194:A:PHE:C	1:195:A:PHE:N	20	2.8

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	18	2.8
(1,22)	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	1:123:A:GLU:N	15	2.79
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	7	2.77
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	6	2.74
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	1	2.74
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	11	2.74
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	13	2.73
(1,5)	1:113:A:LEU:C	1:114:A:GLU:N	1:114:A:GLU:CA	1:114:A:GLU:C	8	2.73
(1,57)	1:139:A:MET:C	1:140:A:THR:N	1:140:A:THR:CA	1:140:A:THR:C	16	2.71
(1,71)	1:146:A:THR:C	1:147:A:VAL:N	1:147:A:VAL:CA	1:147:A:VAL:C	7	2.67
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	5	2.67
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	20	2.67
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	2	2.65
(1,22)	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	1:123:A:GLU:N	5	2.65
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	5	2.63
(1,153)	1:196:A:ARG:C	1:197:A:LEU:N	1:197:A:LEU:CA	1:197:A:LEU:C	5	2.62
(1,82)	1:154:A:MET:N	1:154:A:MET:CA	1:154:A:MET:C	1:155:A:ILE:N	2	2.62
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	20	2.6
(1,148)	1:194:A:PHE:N	1:194:A:PHE:CA	1:194:A:PHE:C	1:195:A:PHE:N	16	2.59
(1,154)	1:197:A:LEU:N	1:197:A:LEU:CA	1:197:A:LEU:C	1:198:A:ASP:N	2	2.58
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	2	2.56
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	17	2.53
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	6	2.53
(1,123)	1:177:A:GLY:C	1:178:A:ASP:N	1:178:A:ASP:CA	1:178:A:ASP:C	1	2.51
(1,71)	1:146:A:THR:C	1:147:A:VAL:N	1:147:A:VAL:CA	1:147:A:VAL:C	3	2.51
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	12	2.51
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	17	2.5
(1,149)	1:194:A:PHE:C	1:195:A:PHE:N	1:195:A:PHE:CA	1:195:A:PHE:C	20	2.49
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	2	2.49
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	4	2.48
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	3	2.47
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	10	2.46
(1,101)	1:163:A:ASP:C	1:164:A:SER:N	1:164:A:SER:CA	1:164:A:SER:C	19	2.46
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	5	2.45
(1,151)	1:195:A:PHE:C	1:196:A:ARG:N	1:196:A:ARG:CA	1:196:A:ARG:C	3	2.43
(1,12)	1:117:A:MET:N	1:117:A:MET:CA	1:117:A:MET:C	1:118:A:THR:N	18	2.41
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	14	2.41
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	3	2.37
(1,71)	1:146:A:THR:C	1:147:A:VAL:N	1:147:A:VAL:CA	1:147:A:VAL:C	8	2.37
(1,147)	1:193:A:GLY:C	1:194:A:PHE:N	1:194:A:PHE:CA	1:194:A:PHE:C	12	2.35
(1,123)	1:177:A:GLY:C	1:178:A:ASP:N	1:178:A:ASP:CA	1:178:A:ASP:C	15	2.35
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	16	2.34
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	4	2.32
(1,8)	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	1:116:A:ASP:N	19	2.31
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	14	2.27
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	19	2.27
(1,22)	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	1:123:A:GLU:N	2	2.27
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	18	2.25
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	5	2.23
(1,21)	1:121:A:LYS:C	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	11	2.23
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	8	2.22

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	2	2.21
(1,21)	1:121:A:LYS:C	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	4	2.21
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	18	2.2
(1,21)	1:121:A:LYS:C	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	7	2.17
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	15	2.16
(1,103)	1:167:A:GLY:C	1:168:A:GLN:N	1:168:A:GLN:CA	1:168:A:GLN:C	15	2.15
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	2	2.15
(1,21)	1:121:A:LYS:C	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	8	2.14
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	1	2.11
(1,95)	1:160:A:ASP:C	1:161:A:PHE:N	1:161:A:PHE:CA	1:161:A:PHE:C	1	2.11
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	5	2.07
(1,21)	1:121:A:LYS:C	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	12	2.07
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	5	2.07
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	15	2.06
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	8	2.04
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	4	2.03
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	10	2.03
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	14	2.02
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	15	2.02
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	9	2.01
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	16	1.98
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	18	1.98
(1,153)	1:196:A:ARG:C	1:197:A:LEU:N	1:197:A:LEU:CA	1:197:A:LEU:C	13	1.97
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	11	1.97
(1,123)	1:177:A:GLY:C	1:178:A:ASP:N	1:178:A:ASP:CA	1:178:A:ASP:C	10	1.95
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	3	1.95
(1,21)	1:121:A:LYS:C	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	6	1.95
(1,152)	1:196:A:ARG:N	1:196:A:ARG:CA	1:196:A:ARG:C	1:197:A:LEU:N	10	1.93
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	1	1.91
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	20	1.9
(1,22)	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	1:123:A:GLU:N	4	1.9
(1,61)	1:141:A:ARG:C	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	17	1.88
(1,22)	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	1:123:A:GLU:N	8	1.88
(1,137)	1:184:A:VAL:C	1:185:A:ASN:N	1:185:A:ASN:CA	1:185:A:ASN:C	12	1.87
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	9	1.87
(1,149)	1:194:A:PHE:C	1:195:A:PHE:N	1:195:A:PHE:CA	1:195:A:PHE:C	14	1.86
(1,21)	1:121:A:LYS:C	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	19	1.86
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	8	1.84
(1,21)	1:121:A:LYS:C	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	15	1.84
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	6	1.82
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	15	1.81
(1,29)	1:125:A:VAL:C	1:126:A:LYS:N	1:126:A:LYS:CA	1:126:A:LYS:C	1	1.81
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	19	1.81
(1,82)	1:154:A:MET:N	1:154:A:MET:CA	1:154:A:MET:C	1:155:A:ILE:N	5	1.8
(1,68)	1:145:A:PHE:N	1:145:A:PHE:CA	1:145:A:PHE:C	1:146:A:THR:N	11	1.8
(1,93)	1:159:A:PHE:C	1:160:A:ASP:N	1:160:A:ASP:CA	1:160:A:ASP:C	16	1.79
(1,148)	1:194:A:PHE:N	1:194:A:PHE:CA	1:194:A:PHE:C	1:195:A:PHE:N	14	1.76
(1,123)	1:177:A:GLY:C	1:178:A:ASP:N	1:178:A:ASP:CA	1:178:A:ASP:C	9	1.75
(1,61)	1:141:A:ARG:C	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	7	1.75
(1,123)	1:177:A:GLY:C	1:178:A:ASP:N	1:178:A:ASP:CA	1:178:A:ASP:C	17	1.74
(1,151)	1:195:A:PHE:C	1:196:A:ARG:N	1:196:A:ARG:CA	1:196:A:ARG:C	11	1.72

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,47)	1:134:A:ARG:C	1:135:A:GLN:N	1:135:A:GLN:CA	1:135:A:GLN:C	6	1.72
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	9	1.72
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	19	1.72
(1,153)	1:196:A:ARG:C	1:197:A:LEU:N	1:197:A:LEU:CA	1:197:A:LEU:C	17	1.71
(1,68)	1:145:A:PHE:N	1:145:A:PHE:CA	1:145:A:PHE:C	1:146:A:THR:N	17	1.71
(1,38)	1:130:A:ALA:N	1:130:A:ALA:CA	1:130:A:ALA:C	1:131:A:THR:N	15	1.71
(1,145)	1:188:A:ASN:C	1:189:A:ASN:N	1:189:A:ASN:CA	1:189:A:ASN:C	3	1.68
(1,73)	1:149:A:ALA:C	1:150:A:ASN:N	1:150:A:ASN:CA	1:150:A:ASN:C	8	1.67
(1,22)	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	1:123:A:GLU:N	3	1.66
(1,21)	1:121:A:LYS:C	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	10	1.66
(1,149)	1:194:A:PHE:C	1:195:A:PHE:N	1:195:A:PHE:CA	1:195:A:PHE:C	1	1.65
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	20	1.64
(1,105)	1:168:A:GLN:C	1:169:A:VAL:N	1:169:A:VAL:CA	1:169:A:VAL:C	15	1.63
(1,68)	1:145:A:PHE:N	1:145:A:PHE:CA	1:145:A:PHE:C	1:146:A:THR:N	4	1.63
(1,21)	1:121:A:LYS:C	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	13	1.6
(1,56)	1:139:A:MET:N	1:139:A:MET:CA	1:139:A:MET:C	1:140:A:THR:N	13	1.59
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	17	1.59
(1,7)	1:114:A:GLU:C	1:115:A:PRO:N	1:115:A:PRO:CA	1:115:A:PRO:C	13	1.59
(1,68)	1:145:A:PHE:N	1:145:A:PHE:CA	1:145:A:PHE:C	1:146:A:THR:N	14	1.57
(1,83)	1:154:A:MET:C	1:155:A:ILE:N	1:155:A:ILE:CA	1:155:A:ILE:C	19	1.56
(1,68)	1:145:A:PHE:N	1:145:A:PHE:CA	1:145:A:PHE:C	1:146:A:THR:N	16	1.54
(1,103)	1:167:A:GLY:C	1:168:A:GLN:N	1:168:A:GLN:CA	1:168:A:GLN:C	20	1.53
(1,145)	1:188:A:ASN:C	1:189:A:ASN:N	1:189:A:ASN:CA	1:189:A:ASN:C	17	1.52
(1,93)	1:159:A:PHE:C	1:160:A:ASP:N	1:160:A:ASP:CA	1:160:A:ASP:C	14	1.52
(1,46)	1:134:A:ARG:N	1:134:A:ARG:CA	1:134:A:ARG:C	1:135:A:GLN:N	7	1.52
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	11	1.5
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	14	1.5
(1,51)	1:136:A:VAL:C	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	20	1.49
(1,132)	1:182:A:THR:N	1:182:A:THR:CA	1:182:A:THR:C	1:183:A:ILE:N	15	1.47
(1,103)	1:167:A:GLY:C	1:168:A:GLN:N	1:168:A:GLN:CA	1:168:A:GLN:C	7	1.46
(1,82)	1:154:A:MET:N	1:154:A:MET:CA	1:154:A:MET:C	1:155:A:ILE:N	13	1.45
(1,153)	1:196:A:ARG:C	1:197:A:LEU:N	1:197:A:LEU:CA	1:197:A:LEU:C	4	1.43
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	13	1.43
(1,11)	1:116:A:ASP:C	1:117:A:MET:N	1:117:A:MET:CA	1:117:A:MET:C	19	1.43
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	7	1.42
(1,151)	1:195:A:PHE:C	1:196:A:ARG:N	1:196:A:ARG:CA	1:196:A:ARG:C	18	1.4
(1,132)	1:182:A:THR:N	1:182:A:THR:CA	1:182:A:THR:C	1:183:A:ILE:N	20	1.4
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	17	1.4
(1,61)	1:141:A:ARG:C	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	14	1.4
(1,51)	1:136:A:VAL:C	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	17	1.39
(1,71)	1:146:A:THR:C	1:147:A:VAL:N	1:147:A:VAL:CA	1:147:A:VAL:C	6	1.37
(1,51)	1:136:A:VAL:C	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	16	1.37
(1,154)	1:197:A:LEU:N	1:197:A:LEU:CA	1:197:A:LEU:C	1:198:A:ASP:N	20	1.36
(1,68)	1:145:A:PHE:N	1:145:A:PHE:CA	1:145:A:PHE:C	1:146:A:THR:N	20	1.35
(1,21)	1:121:A:LYS:C	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	3	1.35
(1,93)	1:159:A:PHE:C	1:160:A:ASP:N	1:160:A:ASP:CA	1:160:A:ASP:C	3	1.33
(1,123)	1:177:A:GLY:C	1:178:A:ASP:N	1:178:A:ASP:CA	1:178:A:ASP:C	13	1.32
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	6	1.32
(1,123)	1:177:A:GLY:C	1:178:A:ASP:N	1:178:A:ASP:CA	1:178:A:ASP:C	16	1.31
(1,6)	1:114:A:GLU:N	1:114:A:GLU:CA	1:114:A:GLU:C	1:115:A:PRO:N	19	1.31
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	20	1.28

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	7	1.27
(1,61)	1:141:A:ARG:C	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	6	1.26
(1,51)	1:136:A:VAL:C	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	3	1.26
(1,68)	1:145:A:PHE:N	1:145:A:PHE:CA	1:145:A:PHE:C	1:146:A:THR:N	9	1.25
(1,68)	1:145:A:PHE:N	1:145:A:PHE:CA	1:145:A:PHE:C	1:146:A:THR:N	1	1.24
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	10	1.24
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	10	1.23
(1,89)	1:157:A:ARG:C	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	8	1.23
(1,51)	1:136:A:VAL:C	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	6	1.23
(1,132)	1:182:A:THR:N	1:182:A:THR:CA	1:182:A:THR:C	1:183:A:ILE:N	8	1.22
(1,89)	1:157:A:ARG:C	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	18	1.22
(1,151)	1:195:A:PHE:C	1:196:A:ARG:N	1:196:A:ARG:CA	1:196:A:ARG:C	8	1.21
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	12	1.2
(1,145)	1:188:A:ASN:C	1:189:A:ASN:N	1:189:A:ASN:CA	1:189:A:ASN:C	6	1.19
(1,132)	1:182:A:THR:N	1:182:A:THR:CA	1:182:A:THR:C	1:183:A:ILE:N	12	1.19
(1,132)	1:182:A:THR:N	1:182:A:THR:CA	1:182:A:THR:C	1:183:A:ILE:N	18	1.18
(1,80)	1:153:A:GLU:N	1:153:A:GLU:CA	1:153:A:GLU:C	1:154:A:MET:N	4	1.18
(1,3)	1:112:A:ASN:C	1:113:A:LEU:N	1:113:A:LEU:CA	1:113:A:LEU:C	1	1.18
(1,1)	1:111:A:VAL:C	1:112:A:ASN:N	1:112:A:ASN:CA	1:112:A:ASN:C	6	1.17
(1,61)	1:141:A:ARG:C	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	19	1.16
(1,144)	1:188:A:ASN:N	1:188:A:ASN:CA	1:188:A:ASN:C	1:189:A:ASN:N	17	1.14
(1,93)	1:159:A:PHE:C	1:160:A:ASP:N	1:160:A:ASP:CA	1:160:A:ASP:C	11	1.14
(1,68)	1:145:A:PHE:N	1:145:A:PHE:CA	1:145:A:PHE:C	1:146:A:THR:N	18	1.14
(1,16)	1:119:A:ILE:N	1:119:A:ILE:CA	1:119:A:ILE:C	1:120:A:SER:N	13	1.14
(1,22)	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	1:123:A:GLU:N	10	1.13
(1,22)	1:122:A:ASN:N	1:122:A:ASN:CA	1:122:A:ASN:C	1:123:A:GLU:N	13	1.13
(1,150)	1:195:A:PHE:N	1:195:A:PHE:CA	1:195:A:PHE:C	1:196:A:ARG:N	7	1.12
(1,151)	1:195:A:PHE:C	1:196:A:ARG:N	1:196:A:ARG:CA	1:196:A:ARG:C	10	1.1
(1,108)	1:170:A:ARG:N	1:170:A:ARG:CA	1:170:A:ARG:C	1:171:A:ALA:N	16	1.1
(1,93)	1:159:A:PHE:C	1:160:A:ASP:N	1:160:A:ASP:CA	1:160:A:ASP:C	5	1.1
(1,51)	1:136:A:VAL:C	1:137:A:SER:N	1:137:A:SER:CA	1:137:A:SER:C	1	1.1
(1,93)	1:159:A:PHE:C	1:160:A:ASP:N	1:160:A:ASP:CA	1:160:A:ASP:C	8	1.09
(1,46)	1:134:A:ARG:N	1:134:A:ARG:CA	1:134:A:ARG:C	1:135:A:GLN:N	3	1.09
(1,90)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:PHE:N	10	1.08
(1,123)	1:177:A:GLY:C	1:178:A:ASP:N	1:178:A:ASP:CA	1:178:A:ASP:C	11	1.07
(1,47)	1:134:A:ARG:C	1:135:A:GLN:N	1:135:A:GLN:CA	1:135:A:GLN:C	13	1.07
(1,93)	1:159:A:PHE:C	1:160:A:ASP:N	1:160:A:ASP:CA	1:160:A:ASP:C	6	1.06
(1,114)	1:173:A:LEU:N	1:173:A:LEU:CA	1:173:A:LEU:C	1:174:A:THR:N	6	1.05
(1,25)	1:123:A:GLU:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	16	1.05
(1,123)	1:177:A:GLY:C	1:178:A:ASP:N	1:178:A:ASP:CA	1:178:A:ASP:C	4	1.04
(1,61)	1:141:A:ARG:C	1:142:A:PRO:N	1:142:A:PRO:CA	1:142:A:PRO:C	11	1.03
(1,132)	1:182:A:THR:N	1:182:A:THR:CA	1:182:A:THR:C	1:183:A:ILE:N	5	1.02
(1,152)	1:196:A:ARG:N	1:196:A:ARG:CA	1:196:A:ARG:C	1:197:A:LEU:N	8	1.01
(1,47)	1:134:A:ARG:C	1:135:A:GLN:N	1:135:A:GLN:CA	1:135:A:GLN:C	12	1.01