Full wwPDB NMR Structure Validation Report (i)

Jun 20, 2026 – 10:08 am BST

PDB ID	:	8COO / pdb_00008coo
BMRB ID	:	34660
Title	:	Solution structure of Zipcode binding protein 1 (ZBP1) KH3(DD)KH4 domains in complex with N6-Methyladenosine containing RNA
Authors	:	Nicastro, G.; Abis, G.; Taylor, I.A.; Ramos, A.
Deposited on	:	2023-02-28

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 (i) 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 (i)) were used in the production of this report:

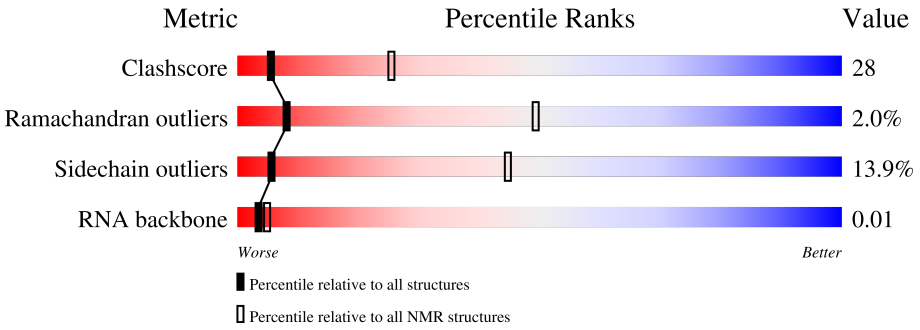
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	1.8.4, CSD as541be (2020)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (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 62%.

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
RNA backbone	8273	777

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 <=5%

Mol	Chain	Length	Quality of chain
1	A	191	35% 38% 5% • 22%
2	B	7	14% 57% 29%

2 Ensemble composition and analysis

This entry contains 20 models. Model 2 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:20-A:61, A:68-A:96, A:102-A:179 (149)	0.65	2

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 6 clusters and 2 single-model clusters were found.

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

3 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 3152 atoms, of which 1556 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Insulin-like growth factor 2 mRNA-binding protein 1.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	191	2927	912	1477	261	273	4	0

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	expression tag	UNP O42254
A	2	ALA	-	expression tag	UNP O42254
A	3	MET	-	expression tag	UNP O42254
A	4	GLY	-	expression tag	UNP O42254
A	14	PHE	TYR	engineered mutation	UNP O42254
A	40	ASP	LYS	engineered mutation	UNP O42254
A	41	ASP	LYS	engineered mutation	UNP O42254

- Molecule 2 is a RNA chain called RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3').

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	P	
2	B	7	225	67	79	25	48	6	0

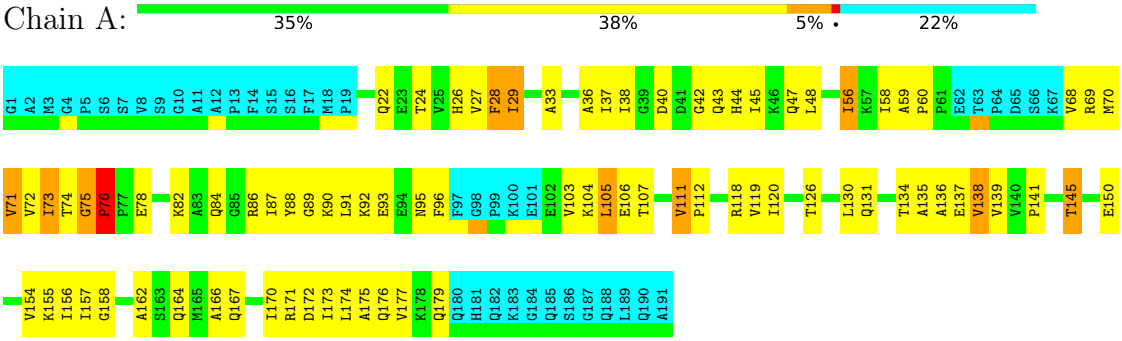
4 Residue-property plots

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.

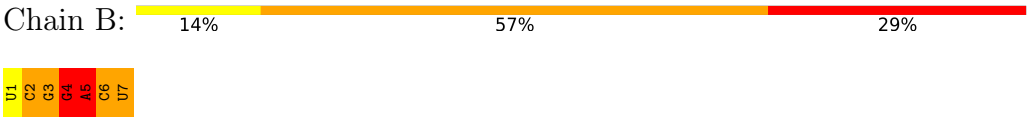
• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

Chain A:



• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

Chain B:



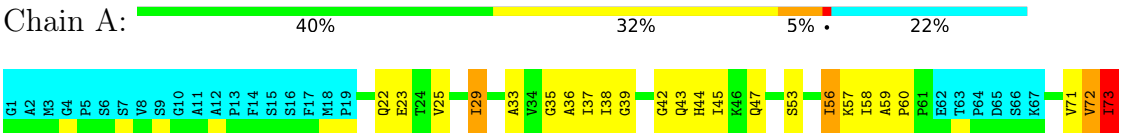
4.2 Scores per residue for each member of the ensemble

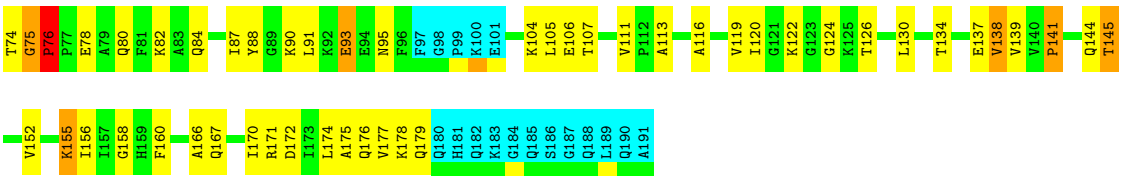
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

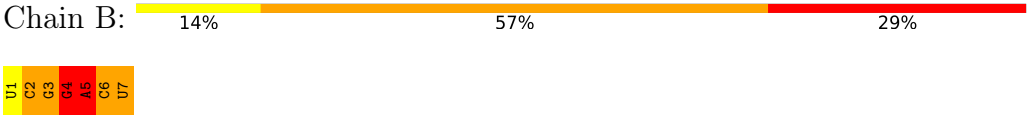
• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

Chain A:



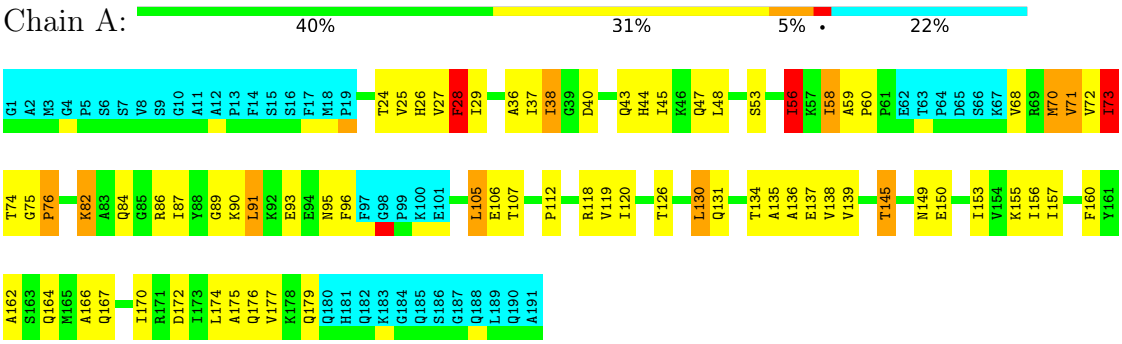


• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

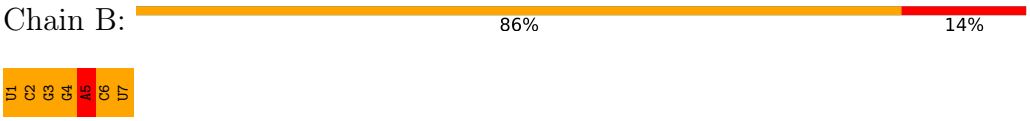


4.2.2 Score per residue for model 2 (medoid)

• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

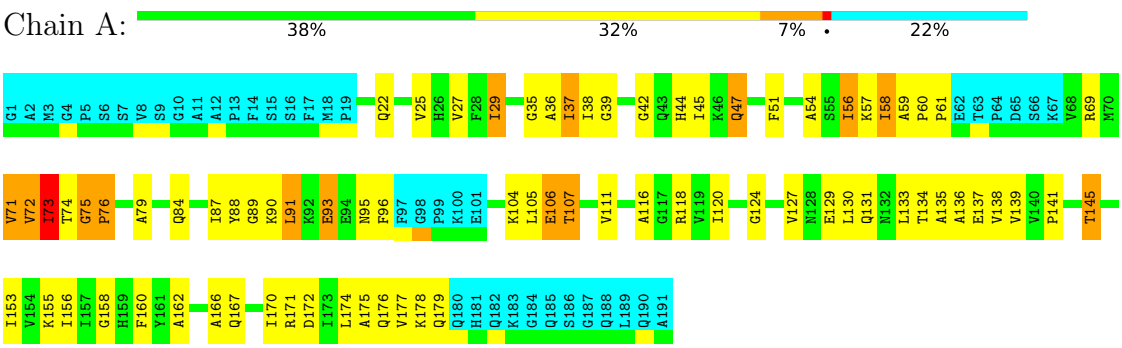


• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')



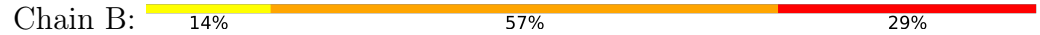
4.2.3 Score per residue for model 3

• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1



• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

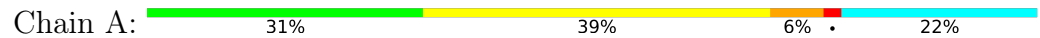
Chain B:

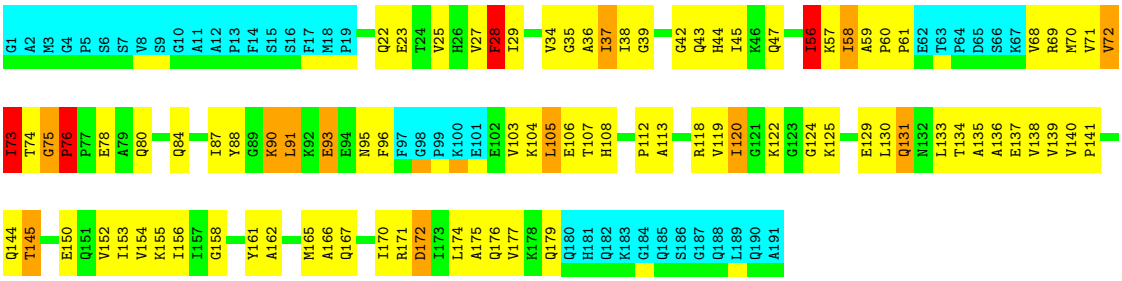


4.2.4 Score per residue for model 4

• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

Chain A:





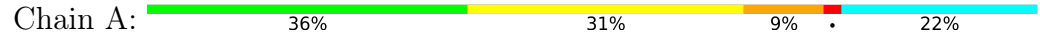
• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

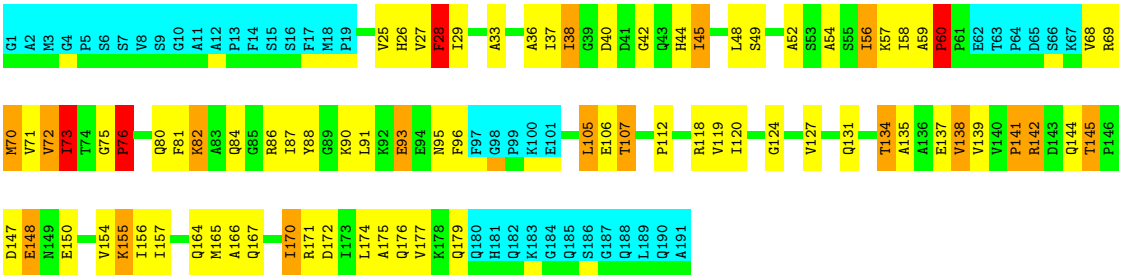
Chain B:

4.2.5 Score per residue for model 5

• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

Chain A:





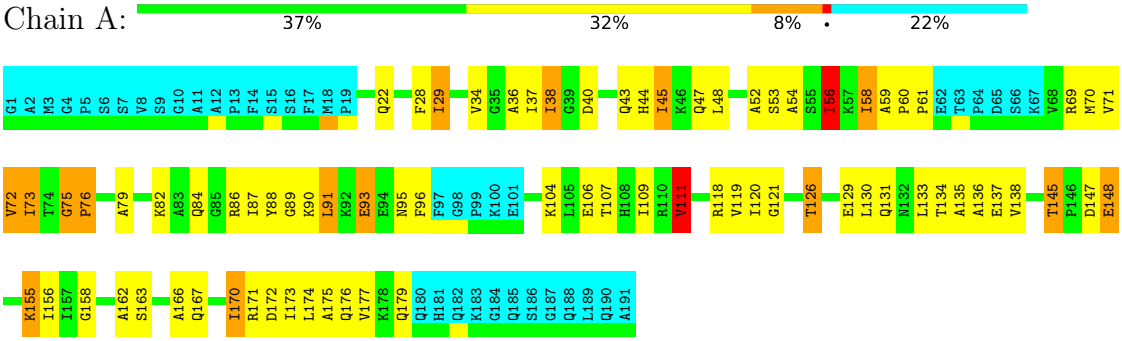
• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

Chain B:

4.2.6 Score per residue for model 6

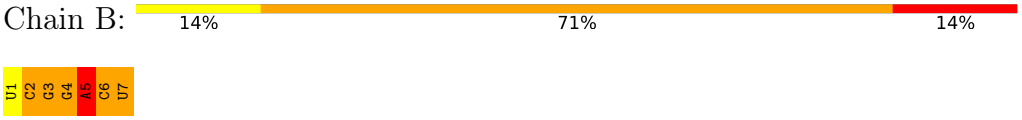
• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

Chain A:



• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

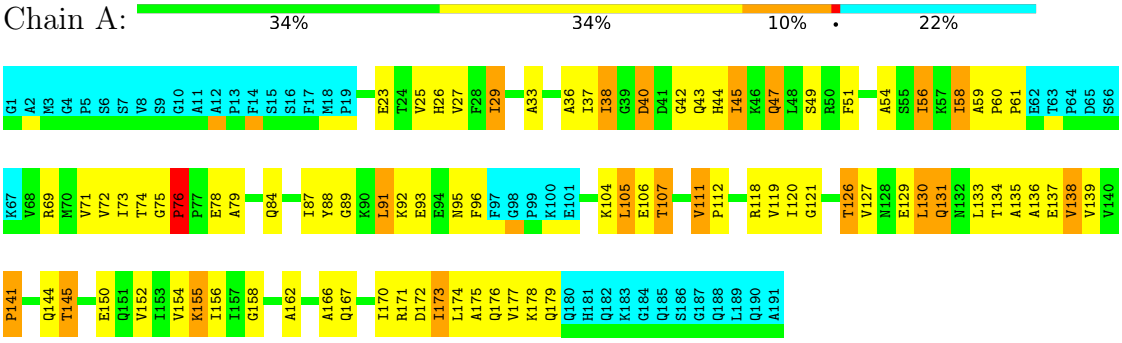
Chain B:



4.2.7 Score per residue for model 7

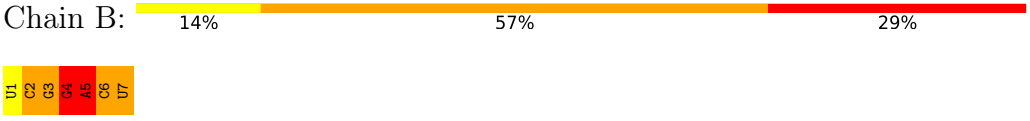
• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

Chain A:



• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

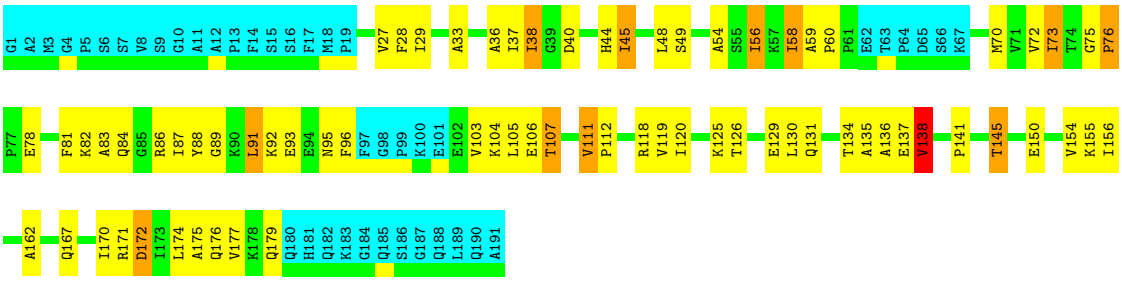
Chain B:



4.2.8 Score per residue for model 8

• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

Chain A:



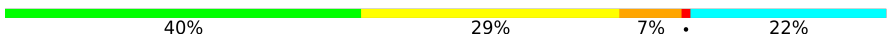
• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

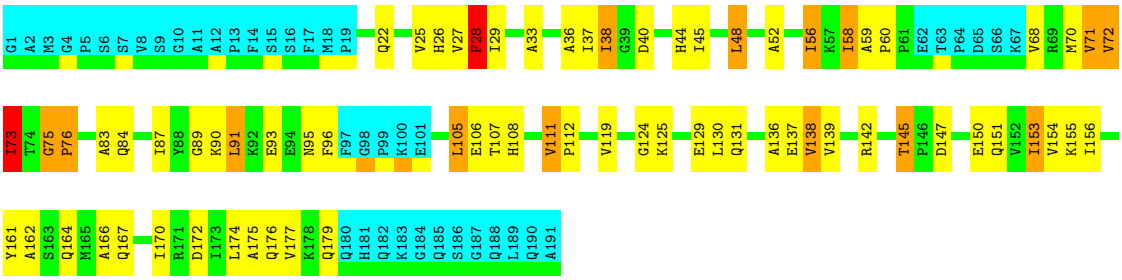
Chain B:

4.2.9 Score per residue for model 9

• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

Chain A:





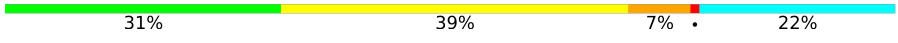
• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

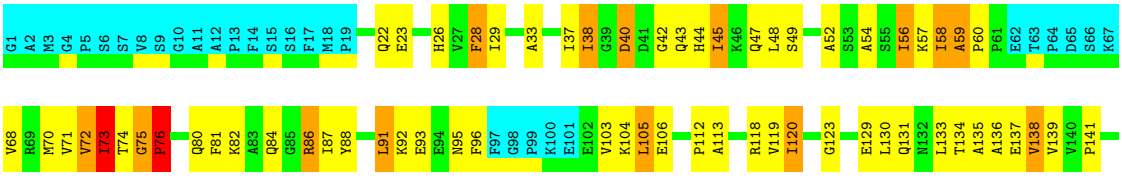
Chain B:

4.2.10 Score per residue for model 10

• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

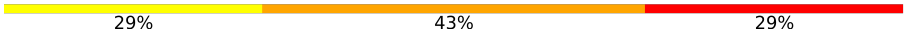
Chain A:





• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

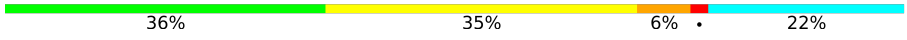
Chain B:

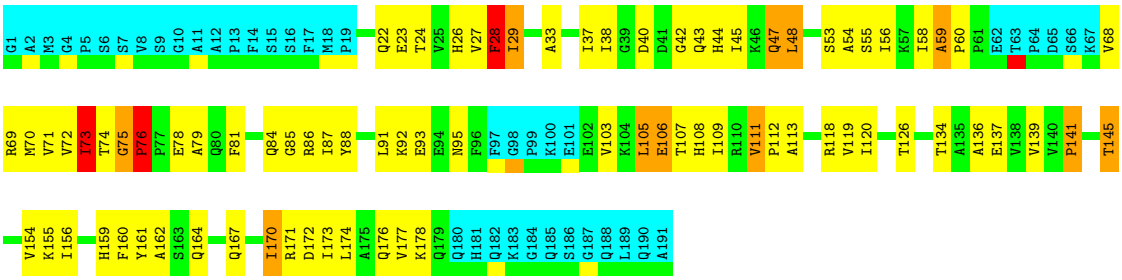


4.2.11 Score per residue for model 11

• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

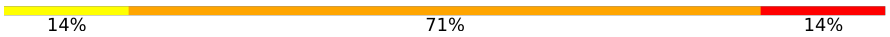
Chain A:





• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

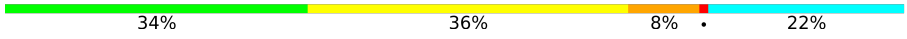
Chain B:

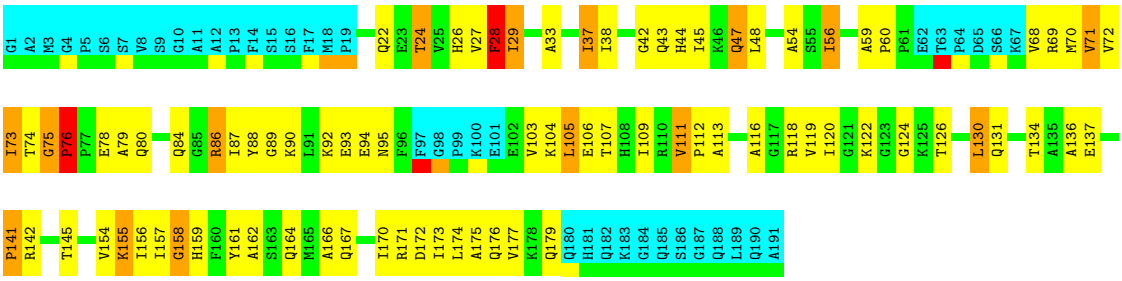


4.2.12 Score per residue for model 12

• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

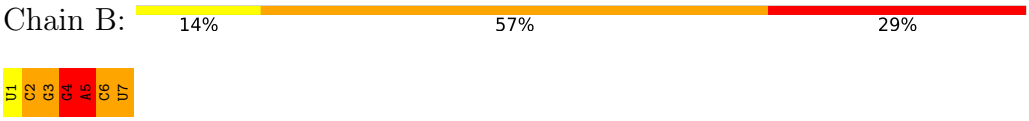
Chain A:





• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

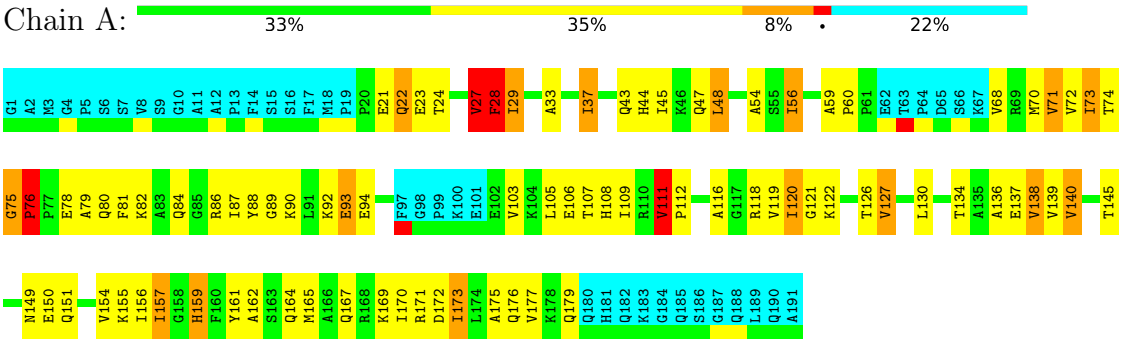
Chain B:



4.2.13 Score per residue for model 13

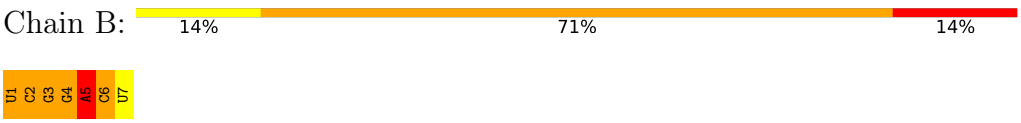
• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

Chain A:



• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

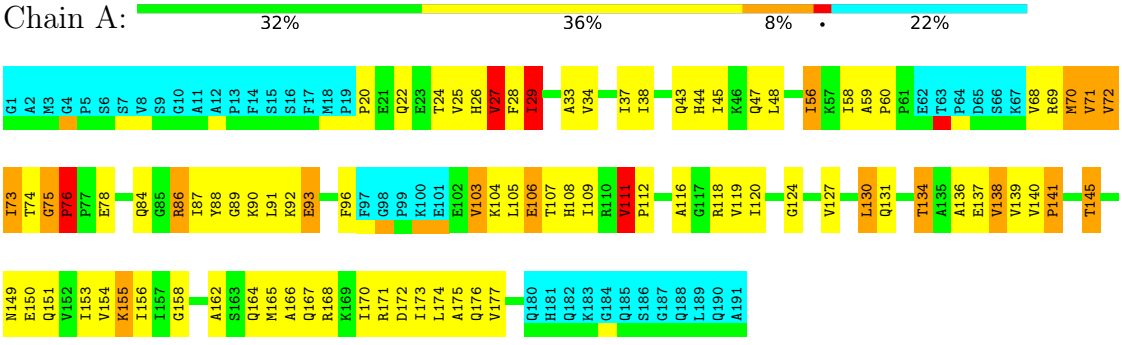
Chain B:



4.2.14 Score per residue for model 14

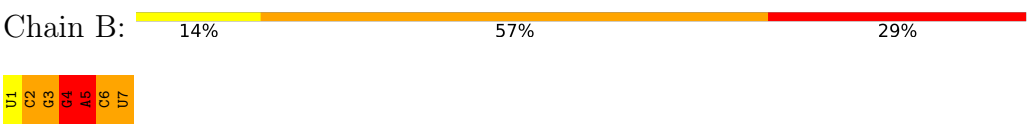
• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

Chain A:



• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

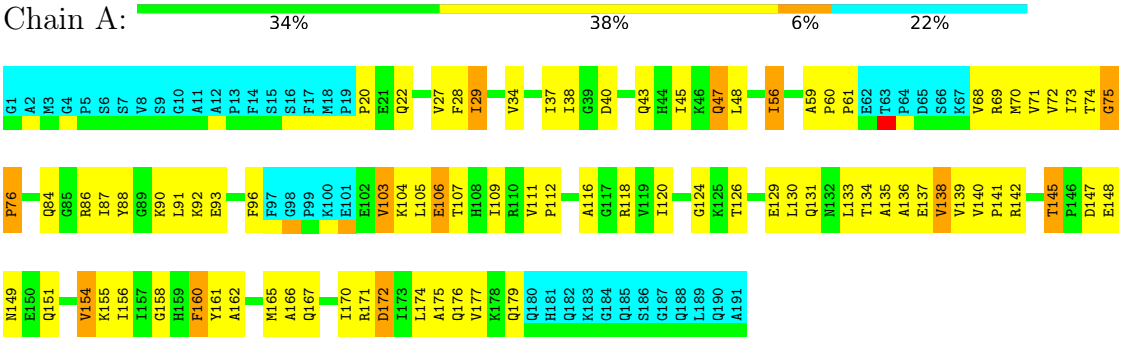
Chain B:



4.2.15 Score per residue for model 15

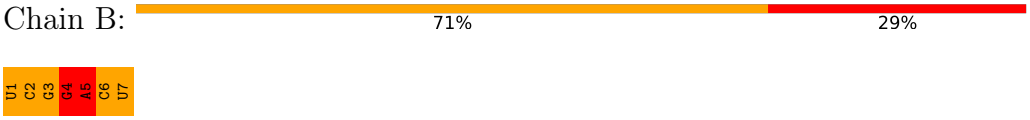
• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

Chain A:



• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

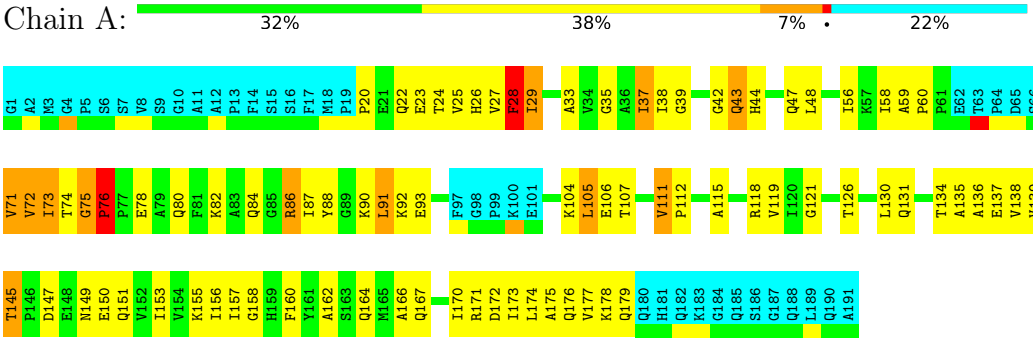
Chain B:



4.2.16 Score per residue for model 16

• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

Chain A:



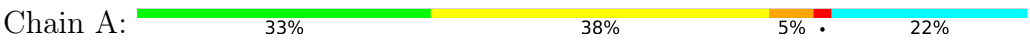
• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

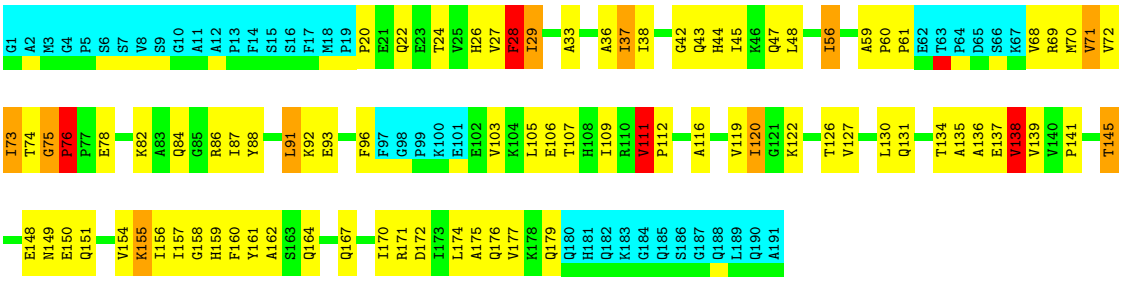
Chain B:

4.2.17 Score per residue for model 17

• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

Chain A:





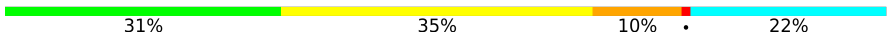
• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

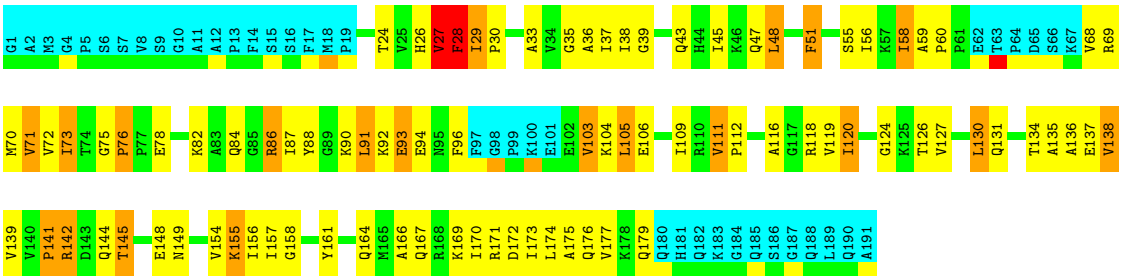
Chain B:

4.2.18 Score per residue for model 18

• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

Chain A:





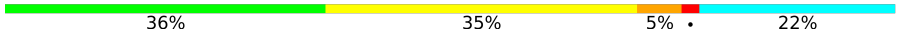
• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

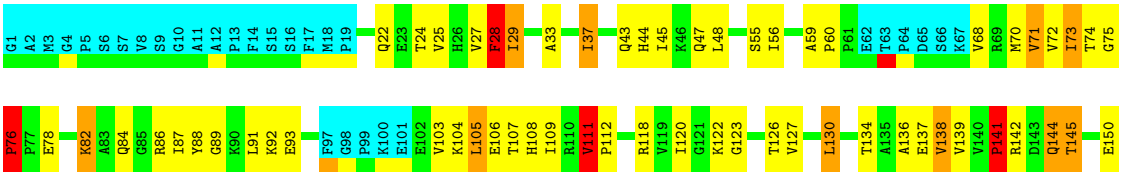
Chain B:

4.2.19 Score per residue for model 19

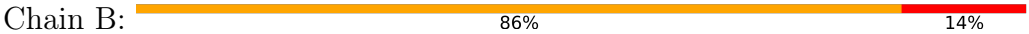
• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1

Chain A:



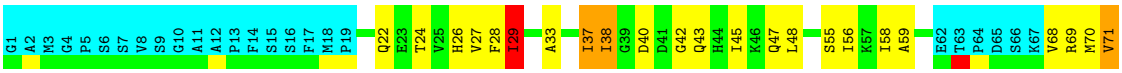


• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')

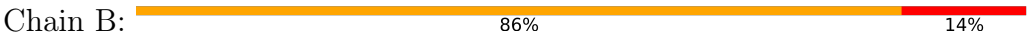


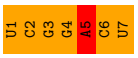
4.2.20 Score per residue for model 20

• Molecule 1: Insulin-like growth factor 2 mRNA-binding protein 1



• Molecule 2: RNA_(5'-R(*(UP*CP*GP*GP*(6MZ)P*CP*U)-3')





5 Refinement protocol and experimental data overview

The models were refined using the following method: *torsion angle dynamics*.

Of the 40 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
ARIA	refinement	
ARIA	structure calculation	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1472
Number of shifts mapped to atoms	1472
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	62%

6 Model quality (i)

6.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: 6MZ

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	1.41±0.03	11±2/1169 (0.9± 0.2%)	1.39±0.02	2±2/1581 (0.1± 0.1%)
2	B	0.32±0.03	0±0/135 (0.0± 0.0%)	0.90±0.08	1±0/206 (0.3± 0.2%)
All	All	1.34	212/26080 (0.8%)	1.34	46/35740 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	0.5±0.5
All	All	0	9

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	73	ILE	CA-CB	9.21	1.64	1.53	5	20
1	A	60	PRO	C-N	8.85	1.41	1.33	14	17
1	A	75	GLY	C-N	6.92	1.41	1.33	19	20
1	A	140	VAL	C-N	6.74	1.42	1.33	13	4
1	A	76	PRO	C-N	6.67	1.41	1.33	6	20
1	A	27	VAL	CA-CB	6.64	1.61	1.54	14	3
1	A	103	VAL	CA-CB	6.45	1.63	1.54	15	3
1	A	59	ALA	C-N	6.39	1.41	1.33	20	20
1	A	56	ILE	CA-CB	6.27	1.61	1.54	8	13
1	A	29	ILE	C-N	6.24	1.40	1.33	17	15
1	A	145	THR	C-N	6.18	1.41	1.33	20	19
1	A	60	PRO	CA-C	6.14	1.56	1.52	15	3
1	A	173	ILE	CA-CB	5.73	1.60	1.54	7	7

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	72	VAL	CA-CB	5.72	1.59	1.53	10	10
1	A	37	ILE	CA-CB	5.61	1.60	1.54	13	7
1	A	111	VAL	CA-CB	5.58	1.61	1.54	3	5
1	A	127	VAL	CA-CB	5.53	1.61	1.54	18	2
1	A	111	VAL	C-N	5.32	1.40	1.33	19	7
1	A	120	ILE	CA-CB	5.31	1.61	1.54	17	6
1	A	86	ARG	C-N	5.25	1.40	1.33	20	2
1	A	53	SER	N-CA	5.21	1.52	1.46	11	3
1	A	76	PRO	CA-C	5.14	1.56	1.52	1	4
1	A	157	ILE	CA-CB	5.13	1.60	1.53	20	2

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

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	A	28	PHE	CA-CB-CG	8.90	122.70	113.80	16	12
1	A	29	ILE	N-CA-CB	7.45	116.97	111.83	12	3
1	A	112	PRO	CA-C-N	5.87	128.46	120.54	11	4
1	A	112	PRO	C-N-CA	5.87	128.46	120.54	11	4
2	B	4	G	C2'-C3'-O3'	5.84	118.26	109.50	3	12
1	A	138	VAL	CB-CA-C	5.60	118.45	110.84	5	3
1	A	51	PHE	CA-CB-CG	5.51	119.31	113.80	18	1
1	A	37	ILE	N-CA-CB	-5.31	104.27	110.64	4	2
1	A	111	VAL	CB-CA-C	5.13	114.36	109.33	17	1
1	A	95	ASN	CA-CB-CG	5.11	117.71	112.60	12	1
1	A	113	ALA	N-CA-CB	-5.10	102.34	109.94	11	2
1	A	56	ILE	CA-CB-CG1	5.08	119.03	110.40	4	1

There are no chirality outliers.

All unique planar outliers are listed below.

Mol	Chain	Res	Type	Group	Models (Total)
1	A	38	ILE	Peptide	9

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	1149	1192	1188	50±8
2	B	146	79	79	23±3
All	All	25900	25420	25340	1419

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 28.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:1:U:H6	2:B:1:U:HO5'	0.86	0.88	4	3
1:A:153:ILE:HB	1:A:155:LYS:HZ1	0.79	1.38	3	3
2:B:4:G:O2'	2:B:5:6MZ:OP1	0.74	2.06	19	20
2:B:1:U:O2'	2:B:2:C:H3'	0.74	1.82	4	7
1:A:27:VAL:HG21	1:A:87:ILE:HG21	0.72	1.60	14	1
1:A:29:ILE:HG22	1:A:105:LEU:HD13	0.66	1.67	20	1
2:B:1:U:H6	2:B:1:U:O5'	0.65	1.67	19	4
1:A:106:GLU:HA	1:A:156:ILE:O	0.65	1.91	16	20
1:A:27:VAL:HB	1:A:71:VAL:HG23	0.65	1.68	16	1
1:A:84:GLN:O	1:A:87:ILE:HG13	0.65	1.90	12	20
2:B:2:C:O2'	2:B:3:G:H5'	0.65	1.92	9	11
1:A:27:VAL:O	1:A:70:MET:HA	0.64	1.92	12	13
1:A:56:ILE:HA	1:A:72:VAL:O	0.63	1.93	9	19
1:A:119:VAL:HG23	1:A:120:ILE:HD12	0.63	1.70	7	4
1:A:167:GLN:O	1:A:171:ARG:HG3	0.63	1.93	3	18
1:A:173:ILE:O	1:A:177:VAL:HG23	0.63	1.94	7	3
1:A:88:TYR:CD1	1:A:105:LEU:HD23	0.63	2.28	3	5
1:A:28:PHE:CD1	1:A:68:VAL:HG21	0.63	2.28	16	15
1:A:153:ILE:HB	1:A:155:LYS:HZ2	0.63	1.53	16	1
1:A:126:THR:O	1:A:130:LEU:HB2	0.62	1.95	12	10
1:A:48:LEU:HD22	1:A:86:ARG:HE	0.62	1.54	11	1
1:A:119:VAL:HG12	1:A:170:ILE:HG23	0.61	1.72	12	12
1:A:25:VAL:HG23	1:A:80:GLN:HE21	0.61	1.55	1	1
1:A:112:PRO:HA	1:A:150:GLU:O	0.61	1.95	4	13
1:A:54:ALA:HB2	1:A:79:ALA:HB1	0.61	1.72	11	4
1:A:137:GLU:O	1:A:156:ILE:HA	0.61	1.96	14	20
1:A:38:ILE:HD11	1:A:58:ILE:HG13	0.60	1.72	18	13
2:B:2:C:HO2'	2:B:3:G:P	0.59	2.20	3	7
1:A:37:ILE:HG21	1:A:69:ARG:HH21	0.59	1.57	18	1
1:A:142:ARG:HH11	2:B:6:C:N4	0.59	1.95	5	3
1:A:104:LYS:HA	1:A:158:GLY:O	0.59	1.98	20	11

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:3:G:O2'	2:B:4:G:P	0.59	2.61	20	16
1:A:174:LEU:O	1:A:177:VAL:HG12	0.59	1.98	5	17
2:B:4:G:O2'	2:B:5:6MZ:N7	0.59	2.36	17	20
2:B:5:6MZ:O5'	2:B:5:6MZ:C8	0.59	2.51	10	20
1:A:28:PHE:CD2	1:A:106:GLU:HB3	0.59	2.32	18	11
1:A:144:GLN:NE2	1:A:152:VAL:HB	0.58	2.12	1	1
1:A:127:VAL:HG12	1:A:138:VAL:HB	0.58	1.75	5	1
1:A:153:ILE:HB	1:A:155:LYS:NZ	0.58	2.13	2	4
2:B:3:G:H8	2:B:3:G:O5'	0.58	1.80	3	4
1:A:116:ALA:O	1:A:120:ILE:HG12	0.58	1.99	13	6
2:B:5:6MZ:C5	2:B:6:C:C5	0.58	2.87	5	18
1:A:88:TYR:O	1:A:92:LYS:HG2	0.58	1.99	16	9
1:A:136:ALA:HB2	1:A:162:ALA:HB1	0.58	1.75	16	16
1:A:27:VAL:HB	1:A:71:VAL:HG22	0.58	1.76	19	2
1:A:22:GLN:OE1	1:A:75:GLY:HA2	0.57	1.99	1	14
1:A:172:ASP:O	1:A:176:GLN:HG3	0.57	1.99	7	17
1:A:48:LEU:HD23	1:A:56:ILE:HG12	0.57	1.76	10	3
1:A:142:ARG:HH21	2:B:5:6MZ:P	0.57	2.21	15	1
1:A:26:HIS:HA	1:A:71:VAL:O	0.57	2.00	18	8
2:B:6:C:O2'	2:B:7:U:P	0.57	2.63	16	1
1:A:33:ALA:O	1:A:37:ILE:HG12	0.57	2.00	18	14
1:A:107:THR:O	1:A:155:LYS:HA	0.57	2.00	4	5
1:A:88:TYR:CE1	1:A:159:HIS:HA	0.57	2.35	13	2
1:A:24:THR:HA	1:A:73:ILE:O	0.57	2.00	18	9
1:A:88:TYR:CG	1:A:160:PHE:HB3	0.56	2.35	3	2
1:A:37:ILE:O	1:A:44:HIS:HB3	0.56	2.00	2	13
2:B:3:G:O2'	2:B:4:G:C8	0.56	2.59	11	20
1:A:28:PHE:HB2	1:A:108:HIS:NE2	0.56	2.16	9	1
1:A:27:VAL:HG22	1:A:107:THR:HG23	0.56	1.77	5	3
2:B:2:C:O2'	2:B:3:G:P	0.56	2.63	1	19
1:A:34:VAL:HG21	1:A:69:ARG:HD2	0.56	1.77	15	1
1:A:48:LEU:HD11	1:A:86:ARG:HB3	0.56	1.76	10	5
1:A:28:PHE:HB3	1:A:106:GLU:O	0.56	2.01	11	12
1:A:58:ILE:HD13	1:A:71:VAL:HG22	0.55	1.78	7	1
2:B:1:U:O2	2:B:1:U:H5"	0.55	2.01	2	1
1:A:106:GLU:OE2	1:A:157:ILE:HD11	0.55	2.02	17	6
1:A:73:ILE:HD11	1:A:80:GLN:HA	0.55	1.77	10	2
1:A:78:GLU:HA	1:A:81:PHE:CE1	0.55	2.37	8	1
1:A:161:TYR:O	1:A:164:GLN:HB3	0.55	2.02	11	6
1:A:43:GLN:O	1:A:47:GLN:HB2	0.55	2.02	12	16
1:A:89:GLY:O	1:A:93:GLU:HG2	0.54	2.02	20	8

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:91:LEU:HG	1:A:105:LEU:HD11	0.54	1.79	5	7
2:B:1:U:O2'	2:B:2:C:C5	0.54	2.61	15	3
1:A:90:LYS:O	1:A:93:GLU:HG3	0.54	2.02	5	3
1:A:36:ALA:HB1	1:A:90:LYS:HE2	0.54	1.77	2	2
2:B:4:G:HO2'	2:B:5:6MZ:P	0.54	2.25	11	3
1:A:27:VAL:HG22	1:A:71:VAL:HB	0.54	1.79	14	1
1:A:127:VAL:HG22	1:A:138:VAL:HG12	0.54	1.78	13	4
1:A:86:ARG:O	1:A:90:LYS:HG2	0.54	2.03	13	6
2:B:1:U:H4'	2:B:2:C:O5'	0.54	2.02	13	1
1:A:76:PRO:HB2	1:A:78:GLU:OE2	0.54	2.03	7	4
1:A:147:ASP:HB3	1:A:148:GLU:OE2	0.54	2.03	5	2
1:A:108:HIS:CE1	1:A:155:LYS:HE3	0.54	2.37	13	1
1:A:172:ASP:O	1:A:176:GLN:HG2	0.54	2.03	12	3
1:A:81:PHE:CE1	1:A:164:GLN:HG3	0.54	2.38	11	1
1:A:166:ALA:O	1:A:170:ILE:HD12	0.54	2.02	3	13
1:A:175:ALA:O	1:A:179:GLN:HG3	0.54	2.03	1	5
1:A:25:VAL:HB	1:A:73:ILE:HG23	0.54	1.80	4	5
1:A:35:GLY:O	1:A:39:GLY:HA3	0.54	2.03	3	5
1:A:48:LEU:HD23	1:A:56:ILE:HG13	0.54	1.78	6	2
1:A:82:LYS:O	1:A:86:ARG:HB2	0.54	2.01	10	5
2:B:2:C:O2'	2:B:3:G:C5'	0.53	2.57	2	11
1:A:47:GLN:OE1	1:A:51:PHE:HB2	0.53	2.03	7	2
1:A:26:HIS:CD2	1:A:70:MET:HE3	0.53	2.39	17	2
2:B:3:G:C2'	2:B:4:G:OP2	0.53	2.56	11	19
2:B:7:U:O5'	2:B:7:U:C6	0.53	2.62	18	7
1:A:28:PHE:CD2	1:A:106:GLU:HG3	0.53	2.38	11	1
1:A:88:TYR:CZ	1:A:159:HIS:HA	0.53	2.37	20	3
1:A:89:GLY:O	1:A:92:LYS:HB2	0.53	2.04	19	4
1:A:22:GLN:OE1	1:A:74:THR:HG22	0.53	2.03	3	6
1:A:88:TYR:CZ	1:A:105:LEU:HB2	0.53	2.39	5	1
1:A:106:GLU:OE1	1:A:157:ILE:HD11	0.53	2.04	16	3
2:B:6:C:O2	2:B:7:U:H5	0.53	1.87	6	1
1:A:120:ILE:HD11	1:A:140:VAL:HG13	0.53	1.79	15	2
1:A:76:PRO:HB2	1:A:78:GLU:OE1	0.53	2.04	17	4
1:A:118:ARG:NH1	1:A:177:VAL:HG23	0.53	2.18	18	2
1:A:139:VAL:HB	1:A:155:LYS:O	0.52	2.04	18	15
2:B:1:U:O2'	2:B:2:C:C6	0.52	2.59	5	4
2:B:7:U:C6	2:B:7:U:C5'	0.52	2.92	3	16
1:A:125:LYS:O	1:A:129:GLU:HG2	0.52	2.04	4	2
2:B:3:G:O2'	2:B:4:G:OP2	0.52	2.27	19	18
1:A:87:ILE:O	1:A:91:LEU:HD23	0.52	2.04	6	12

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:93:GLU:OE1	1:A:94:GLU:HG2	0.52	2.04	18	2
1:A:34:VAL:HG21	1:A:69:ARG:NE	0.52	2.20	14	1
1:A:88:TYR:CE1	1:A:105:LEU:HD22	0.52	2.40	5	4
1:A:144:GLN:NE2	1:A:153:ILE:HD12	0.52	2.19	20	1
2:B:7:U:C6	2:B:7:U:O5'	0.52	2.62	17	5
1:A:33:ALA:O	1:A:36:ALA:HB3	0.52	2.04	1	5
1:A:108:HIS:ND1	1:A:153:ILE:HG21	0.52	2.20	14	1
1:A:36:ALA:HB2	1:A:96:PHE:CZ	0.52	2.40	17	4
1:A:76:PRO:O	1:A:80:GLN:HG2	0.51	2.04	12	1
1:A:27:VAL:HG11	1:A:87:ILE:HG12	0.51	1.81	16	1
1:A:28:PHE:CG	1:A:106:GLU:HB3	0.51	2.41	4	6
1:A:174:LEU:O	1:A:178:LYS:HG3	0.51	2.05	20	3
2:B:4:G:O2'	2:B:5:6MZ:P	0.51	2.68	6	20
1:A:37:ILE:O	1:A:44:HIS:HB2	0.51	2.06	7	4
1:A:88:TYR:CE2	1:A:160:PHE:HA	0.51	2.41	15	1
2:B:1:U:HO2'	2:B:2:C:H3'	0.51	1.64	4	1
1:A:120:ILE:HD13	1:A:138:VAL:HG13	0.51	1.81	15	2
1:A:174:LEU:HA	1:A:177:VAL:HG12	0.51	1.83	16	12
1:A:141:PRO:HD2	1:A:144:GLN:NE2	0.51	2.21	4	1
2:B:3:G:O2'	2:B:4:G:N7	0.51	2.44	11	4
1:A:45:ILE:HD11	1:A:56:ILE:HG22	0.51	1.81	13	3
2:B:1:U:O2'	2:B:2:C:C5'	0.51	2.59	19	7
1:A:81:PHE:HA	1:A:164:GLN:NE2	0.51	2.21	5	1
1:A:88:TYR:CD1	1:A:105:LEU:HD22	0.51	2.40	5	2
1:A:134:THR:HG23	1:A:165:MET:SD	0.51	2.46	14	2
1:A:28:PHE:CE2	1:A:70:MET:HG3	0.51	2.41	8	2
1:A:109:ILE:O	1:A:111:VAL:HG13	0.51	2.05	19	9
2:B:5:6MZ:C4	2:B:6:C:C6	0.50	2.94	5	19
1:A:49:SER:HA	1:A:54:ALA:O	0.50	2.07	8	4
1:A:138:VAL:HG13	1:A:154:VAL:HG11	0.50	1.83	8	1
1:A:26:HIS:HB3	1:A:70:MET:SD	0.50	2.47	14	4
1:A:138:VAL:HG13	1:A:154:VAL:HG21	0.50	1.83	5	1
1:A:121:GLY:HA3	1:A:126:THR:OG1	0.50	2.07	6	5
2:B:7:U:O5'	2:B:7:U:N1	0.50	2.45	18	2
1:A:161:TYR:O	1:A:165:MET:HG2	0.50	2.06	4	2
2:B:6:C:N3	2:B:7:U:O4	0.50	2.45	14	1
2:B:1:U:C5'	2:B:2:C:OP1	0.50	2.60	13	1
1:A:26:HIS:CE1	1:A:72:VAL:HG22	0.50	2.42	16	1
2:B:4:G:O2'	2:B:5:6MZ:C8	0.50	2.60	19	20
1:A:120:ILE:HA	1:A:127:VAL:HG23	0.50	1.84	3	1
1:A:118:ARG:CZ	1:A:177:VAL:HG23	0.49	2.36	3	12

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:142:ARG:HE	2:B:6:C:H41	0.49	1.50	15	1
1:A:27:VAL:O	1:A:71:VAL:HG23	0.49	2.07	3	1
1:A:165:MET:O	1:A:169:LYS:HG3	0.49	2.06	13	2
1:A:85:GLY:HA2	1:A:160:PHE:CD1	0.49	2.42	11	1
1:A:80:GLN:O	1:A:84:GLN:HG3	0.49	2.08	13	1
1:A:120:ILE:HD13	1:A:138:VAL:HG12	0.49	1.83	5	3
1:A:91:LEU:O	1:A:95:ASN:HA	0.49	2.07	20	3
1:A:28:PHE:O	1:A:105:LEU:HB3	0.49	2.06	11	1
2:B:1:U:O2'	2:B:2:C:C3'	0.49	2.61	14	10
2:B:2:C:C2'	2:B:3:G:OP2	0.49	2.59	2	19
1:A:142:ARG:HH21	2:B:6:C:N4	0.49	2.04	9	1
1:A:48:LEU:HD11	1:A:83:ALA:O	0.49	2.07	9	1
1:A:120:ILE:HG23	1:A:123:GLY:O	0.49	2.07	10	1
1:A:73:ILE:HD12	1:A:83:ALA:HB1	0.49	1.84	20	1
1:A:88:TYR:O	1:A:103:VAL:HG11	0.49	2.08	4	2
1:A:141:PRO:HG2	1:A:155:LYS:HZ1	0.49	1.68	19	1
1:A:149:ASN:O	1:A:151:GLN:HG3	0.49	2.08	17	5
1:A:161:TYR:O	1:A:164:GLN:HG2	0.49	2.07	13	1
1:A:27:VAL:HG22	1:A:71:VAL:HG12	0.49	1.83	18	1
1:A:36:ALA:HB2	1:A:94:GLU:OE1	0.49	2.07	18	1
1:A:26:HIS:CG	1:A:70:MET:HE3	0.48	2.43	5	2
1:A:76:PRO:O	1:A:80:GLN:HG3	0.48	2.07	5	3
1:A:78:GLU:HA	1:A:81:PHE:CZ	0.48	2.43	8	1
1:A:130:LEU:HB3	1:A:136:ALA:O	0.48	2.08	12	6
1:A:173:ILE:O	1:A:176:GLN:HB2	0.48	2.08	14	1
1:A:158:GLY:O	1:A:162:ALA:HB3	0.48	2.09	3	3
1:A:27:VAL:HG21	1:A:84:GLN:HG2	0.48	1.84	8	1
1:A:21:GLU:HB2	1:A:22:GLN:NE2	0.48	2.23	13	1
1:A:144:GLN:NE2	1:A:152:VAL:HG12	0.48	2.23	19	1
1:A:78:GLU:O	1:A:82:LYS:HG3	0.48	2.09	1	3
2:B:1:U:C4'	2:B:2:C:OP1	0.48	2.61	5	1
1:A:108:HIS:CD2	1:A:155:LYS:HG2	0.48	2.44	19	2
1:A:20:PRO:HB3	1:A:74:THR:OG1	0.48	2.09	14	4
1:A:25:VAL:HG11	1:A:167:GLN:NE2	0.48	2.24	7	3
2:B:1:U:O2	2:B:1:U:C5'	0.48	2.60	2	1
2:B:1:U:O2'	2:B:2:C:C4'	0.48	2.61	14	6
2:B:4:G:C2'	2:B:5:6MZ:OP1	0.48	2.62	16	1
1:A:131:GLN:NE2	1:A:137:GLU:HG3	0.47	2.24	6	1
1:A:175:ALA:O	1:A:179:GLN:HB3	0.47	2.09	7	1
1:A:141:PRO:HD2	1:A:144:GLN:OE1	0.47	2.09	10	1
1:A:37:ILE:HG22	1:A:45:ILE:HD12	0.47	1.86	20	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:176:GLN:HE21	1:A:179:GLN:HE22	0.47	1.52	10	1
2:B:1:U:O5'	2:B:2:C:OP1	0.47	2.30	18	2
1:A:107:THR:HG21	1:A:167:GLN:NE2	0.47	2.23	7	4
2:B:1:U:O2	2:B:1:U:O4'	0.47	2.30	2	2
2:B:1:U:O2'	2:B:2:C:O5'	0.47	2.33	5	5
1:A:48:LEU:O	1:A:52:ALA:HB3	0.47	2.10	5	3
1:A:106:GLU:OE2	1:A:155:LYS:HB3	0.47	2.10	13	5
1:A:118:ARG:NH1	2:B:2:C:C4	0.46	2.83	5	13
1:A:139:VAL:O	1:A:154:VAL:HA	0.46	2.10	4	10
1:A:105:LEU:O	1:A:157:ILE:HA	0.46	2.10	20	1
1:A:129:GLU:O	1:A:133:LEU:HB2	0.46	2.10	6	5
2:B:2:C:C2'	2:B:2:C:O2	0.46	2.61	18	2
1:A:27:VAL:HG22	1:A:71:VAL:HG22	0.46	1.87	13	1
1:A:90:LYS:O	1:A:94:GLU:HB2	0.46	2.10	12	1
1:A:111:VAL:HG21	1:A:119:VAL:HG11	0.46	1.87	13	1
1:A:48:LEU:HA	1:A:51:PHE:CD1	0.46	2.45	18	1
1:A:61:PRO:HG3	1:A:69:ARG:CZ	0.46	2.39	4	2
1:A:106:GLU:OE1	1:A:155:LYS:HB3	0.46	2.11	19	3
2:B:6:C:HO2'	2:B:7:U:H6	0.46	1.51	16	1
1:A:23:GLU:O	1:A:74:THR:HG23	0.46	2.11	1	4
1:A:116:ALA:O	1:A:120:ILE:HD12	0.46	2.10	12	1
1:A:88:TYR:CG	1:A:160:PHE:HB2	0.46	2.46	17	2
2:B:6:C:N3	2:B:7:U:C4	0.46	2.84	14	1
1:A:172:ASP:O	1:A:175:ALA:HB3	0.46	2.11	8	10
1:A:58:ILE:HD13	1:A:71:VAL:HG23	0.46	1.88	14	2
1:A:144:GLN:OE1	1:A:152:VAL:HB	0.46	2.11	7	1
1:A:127:VAL:HG22	1:A:138:VAL:CG1	0.46	2.41	19	1
1:A:38:ILE:O	1:A:42:GLY:HA2	0.46	2.11	1	11
1:A:61:PRO:HD3	1:A:69:ARG:CZ	0.46	2.41	3	1
1:A:131:GLN:NE2	1:A:137:GLU:HB2	0.46	2.26	16	1
1:A:116:ALA:O	1:A:120:ILE:HD13	0.45	2.11	1	1
1:A:38:ILE:HD13	1:A:45:ILE:HG21	0.45	1.88	8	5
1:A:54:ALA:HB1	1:A:74:THR:O	0.45	2.11	3	2
1:A:119:VAL:O	1:A:138:VAL:HG11	0.45	2.12	18	2
1:A:176:GLN:NE2	1:A:179:GLN:HE22	0.45	2.08	18	2
1:A:40:ASP:HB2	1:A:44:HIS:CD2	0.45	2.47	10	2
1:A:160:PHE:O	1:A:164:GLN:HG2	0.45	2.11	16	2
1:A:28:PHE:HB2	1:A:108:HIS:CE1	0.45	2.47	4	2
1:A:54:ALA:HB2	1:A:79:ALA:O	0.45	2.12	7	2
1:A:26:HIS:HB2	1:A:108:HIS:O	0.45	2.11	11	1
1:A:61:PRO:HG3	1:A:69:ARG:NE	0.45	2.26	17	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:28:PHE:CZ	1:A:68:VAL:HG11	0.45	2.47	18	8
2:B:2:C:O2'	2:B:3:G:O5'	0.45	2.35	15	17
1:A:91:LEU:HD13	1:A:96:PHE:HB2	0.45	1.88	8	7
1:A:131:GLN:O	1:A:135:ALA:HA	0.45	2.12	5	12
2:B:6:C:H2'	2:B:7:U:O5'	0.45	2.12	6	1
1:A:68:VAL:O	1:A:69:ARG:HD2	0.45	2.11	20	2
1:A:118:ARG:NE	2:B:2:C:C2	0.45	2.85	20	2
2:B:3:G:O5'	2:B:3:G:H8	0.45	1.95	15	1
2:B:1:U:O4'	2:B:2:C:OP1	0.45	2.34	5	1
2:B:1:U:O2'	2:B:2:C:C1'	0.45	2.65	17	1
1:A:24:THR:HG23	1:A:74:THR:OG1	0.45	2.12	2	1
2:B:6:C:O2'	2:B:7:U:OP1	0.45	2.35	16	1
2:B:1:U:O5'	2:B:1:U:C6	0.44	2.56	4	1
1:A:166:ALA:O	1:A:170:ILE:HB	0.44	2.11	5	2
1:A:125:LYS:O	1:A:129:GLU:HB2	0.44	2.12	8	1
1:A:88:TYR:CE1	1:A:105:LEU:HB2	0.44	2.48	3	1
1:A:118:ARG:NH1	1:A:177:VAL:HG13	0.44	2.26	7	1
2:B:6:C:O2'	2:B:7:U:O5'	0.44	2.35	16	1
1:A:175:ALA:C	1:A:179:GLN:HE21	0.44	2.21	9	12
2:B:3:G:O5'	2:B:3:G:C8	0.44	2.68	9	2
1:A:127:VAL:HG12	1:A:138:VAL:CB	0.44	2.42	5	1
1:A:81:PHE:CE1	1:A:164:GLN:HB2	0.44	2.47	10	2
1:A:107:THR:HG21	1:A:167:GLN:OE1	0.44	2.12	1	3
1:A:34:VAL:O	1:A:38:ILE:HB	0.44	2.13	6	2
1:A:88:TYR:CD2	1:A:160:PHE:HA	0.44	2.48	10	1
1:A:142:ARG:NH2	2:B:4:G:N3	0.44	2.66	19	1
1:A:138:VAL:HG21	1:A:170:ILE:CD1	0.44	2.42	5	1
1:A:30:PRO:O	1:A:33:ALA:HB3	0.44	2.13	18	1
1:A:138:VAL:HG13	1:A:154:VAL:CG2	0.44	2.43	5	1
2:B:6:C:C2'	2:B:7:U:O5'	0.44	2.66	6	1
1:A:147:ASP:OD1	1:A:151:GLN:HB2	0.44	2.12	15	2
2:B:3:G:O2'	2:B:4:G:O5'	0.44	2.35	20	3
1:A:48:LEU:HD11	1:A:86:ARG:CB	0.44	2.43	13	1
1:A:118:ARG:NH1	2:B:2:C:C5	0.44	2.85	18	2
1:A:84:GLN:O	1:A:88:TYR:HD2	0.43	1.95	7	4
1:A:147:ASP:OD2	1:A:151:GLN:HB2	0.43	2.13	10	2
1:A:118:ARG:NH2	2:B:2:C:C2	0.43	2.86	5	1
1:A:118:ARG:O	1:A:173:ILE:HG21	0.43	2.13	20	3
2:B:2:C:H6	2:B:2:C:O5'	0.43	1.96	19	1
1:A:174:LEU:O	1:A:177:VAL:HB	0.43	2.14	20	1
1:A:118:ARG:NH1	2:B:2:C:N3	0.43	2.67	8	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:4:G:N3	2:B:4:G:H2'	0.43	2.29	16	5
1:A:37:ILE:CD1	1:A:90:LYS:HG3	0.43	2.44	13	3
1:A:148:GLU:HG3	1:A:149:ASN:ND2	0.43	2.28	18	3
2:B:6:C:C4	2:B:7:U:O4	0.43	2.72	8	1
1:A:136:ALA:HB1	1:A:156:ILE:CG2	0.43	2.43	16	4
1:A:107:THR:HG21	1:A:167:GLN:CD	0.43	2.38	4	1
1:A:142:ARG:HH11	2:B:6:C:H42	0.43	1.57	16	2
1:A:69:ARG:NH1	1:A:71:VAL:HB	0.43	2.28	18	1
1:A:118:ARG:NH2	2:B:2:C:N3	0.43	2.66	5	2
1:A:163:SER:O	1:A:167:GLN:HG3	0.43	2.14	6	1
1:A:160:PHE:O	1:A:164:GLN:HB2	0.43	2.14	20	2
1:A:174:LEU:HB3	1:A:178:LYS:NZ	0.43	2.29	11	2
1:A:164:GLN:NE2	1:A:168:ARG:HD3	0.43	2.28	14	1
1:A:25:VAL:HG21	1:A:84:GLN:OE1	0.43	2.14	16	1
1:A:28:PHE:CE1	1:A:68:VAL:HG21	0.43	2.49	10	1
1:A:28:PHE:CE2	1:A:68:VAL:HG11	0.43	2.49	16	1
1:A:78:GLU:O	1:A:82:LYS:HD2	0.42	2.14	19	2
1:A:138:VAL:CG2	1:A:170:ILE:HD11	0.42	2.45	1	4
1:A:91:LEU:HD13	1:A:96:PHE:H	0.42	1.73	14	2
1:A:142:ARG:NH1	2:B:6:C:N4	0.42	2.67	12	2
1:A:60:PRO:O	1:A:69:ARG:HD2	0.42	2.15	5	1
1:A:113:ALA:HA	1:A:152:VAL:HG22	0.42	1.91	10	3
1:A:115:ALA:O	1:A:118:ARG:HB2	0.42	2.15	16	1
1:A:141:PRO:HG2	1:A:155:LYS:HZ2	0.42	1.74	14	1
2:B:1:U:O2'	2:B:2:C:O4'	0.42	2.38	8	5
1:A:59:ALA:O	1:A:69:ARG:HD3	0.42	2.15	11	1
1:A:138:VAL:HG21	1:A:170:ILE:HD11	0.42	1.91	13	1
1:A:29:ILE:O	1:A:68:VAL:HB	0.42	2.15	14	1
1:A:104:LYS:C	1:A:105:LEU:HD13	0.41	2.40	19	2
2:B:2:C:O2	2:B:2:C:H2'	0.41	2.14	3	1
1:A:48:LEU:HD22	1:A:86:ARG:NE	0.41	2.25	11	1
1:A:88:TYR:CE2	1:A:159:HIS:HA	0.41	2.50	20	1
1:A:91:LEU:CG	1:A:105:LEU:HD11	0.41	2.45	7	1
1:A:48:LEU:HD12	1:A:56:ILE:CD1	0.41	2.46	9	1
1:A:91:LEU:HD22	1:A:96:PHE:CD2	0.41	2.50	10	1
1:A:176:GLN:OE1	2:B:1:U:C5	0.41	2.72	11	1
1:A:56:ILE:HG12	1:A:73:ILE:CD1	0.41	2.46	16	1
2:B:1:U:O2'	2:B:2:C:H5'	0.41	2.16	20	1
1:A:119:VAL:HG23	1:A:120:ILE:CD1	0.41	2.45	7	1
1:A:166:ALA:O	1:A:170:ILE:HD13	0.41	2.15	7	1
1:A:23:GLU:O	1:A:74:THR:HA	0.41	2.16	11	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:91:LEU:H	1:A:91:LEU:HD22	0.41	1.76	17	1
1:A:59:ALA:HB3	1:A:70:MET:O	0.41	2.15	10	1
1:A:25:VAL:HG23	1:A:80:GLN:NE2	0.41	2.31	4	1
1:A:129:GLU:OE2	1:A:133:LEU:HD13	0.41	2.16	15	1
1:A:142:ARG:HE	2:B:6:C:N4	0.41	2.13	15	1
1:A:174:LEU:C	1:A:177:VAL:HG12	0.41	2.40	4	1
1:A:61:PRO:HD3	1:A:69:ARG:NH1	0.41	2.30	7	1
1:A:83:ALA:O	1:A:87:ILE:HG23	0.41	2.16	8	1
1:A:21:GLU:HB2	1:A:22:GLN:HE21	0.41	1.76	13	1
1:A:23:GLU:HG3	1:A:80:GLN:OE1	0.41	2.16	16	1
1:A:139:VAL:O	1:A:154:VAL:HG23	0.41	2.16	18	1
1:A:52:ALA:O	1:A:79:ALA:HA	0.41	2.16	6	1
1:A:161:TYR:HA	1:A:164:GLN:NE2	0.41	2.31	9	1
1:A:76:PRO:O	1:A:80:GLN:HB2	0.40	2.15	1	1
1:A:119:VAL:HG23	1:A:120:ILE:HG12	0.40	1.92	6	1
1:A:25:VAL:HG13	1:A:109:ILE:CG2	0.40	2.46	14	2
1:A:141:PRO:HG2	1:A:155:LYS:HZ3	0.40	1.75	3	1
1:A:22:GLN:CD	1:A:75:GLY:HA2	0.40	2.42	17	1
1:A:141:PRO:O	1:A:144:GLN:HG2	0.40	2.16	4	1
1:A:127:VAL:HG22	1:A:138:VAL:HB	0.40	1.94	14	1

6.3 Torsion angles (i)

6.3.1 Protein backbone (i)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	149/191 (78%)	135±2 (91±1%)	11±2 (7±1%)	3±1 (2±1%)	8	49
All	All	2980/3820 (78%)	2697 (91%)	223 (7%)	60 (2%)	8	49

All 10 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	76	PRO	20
1	A	40	ASP	10

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Mol	Chain	Res	Type	Models (Total)
1	A	124	GLY	9
1	A	141	PRO	9
1	A	122	LYS	4
1	A	142	ARG	3
1	A	144	GLN	2
1	A	60	PRO	1
1	A	158	GLY	1
1	A	123	GLY	1

6.3.2 Protein sidechains (i)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	122/154 (79%)	105±2 (86±1%)	17±2 (14±1%)	5 45
All	All	2440/3080 (79%)	2101 (86%)	339 (14%)	5 45

All 51 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	29	ILE	19
1	A	134	THR	19
1	A	71	VAL	17
1	A	145	THR	17
1	A	93	GLU	16
1	A	45	ILE	15
1	A	111	VAL	14
1	A	138	VAL	14
1	A	105	LEU	14
1	A	130	LEU	13
1	A	91	LEU	12
1	A	155	LYS	12
1	A	107	THR	12
1	A	28	PHE	11
1	A	48	LEU	11
1	A	73	ILE	10
1	A	141	PRO	10

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Mol	Chain	Res	Type	Models (Total)
1	A	58	ILE	10
1	A	86	ARG	6
1	A	57	LYS	5
1	A	47	GLN	5
1	A	131	GLN	5
1	A	126	THR	5
1	A	56	ILE	4
1	A	70	MET	4
1	A	82	LYS	4
1	A	90	LYS	4
1	A	106	GLU	4
1	A	170	ILE	4
1	A	55	SER	4
1	A	153	ILE	3
1	A	172	ASP	3
1	A	92	LYS	3
1	A	120	ILE	3
1	A	27	VAL	3
1	A	159	HIS	3
1	A	103	VAL	3
1	A	104	LYS	2
1	A	148	GLU	2
1	A	154	VAL	2
1	A	122	LYS	2
1	A	53	SER	1
1	A	149	ASN	1
1	A	24	THR	1
1	A	22	GLN	1
1	A	160	PHE	1
1	A	43	GLN	1
1	A	169	LYS	1
1	A	144	GLN	1
1	A	80	GLN	1
1	A	84	GLN	1

6.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers	Suiteness
2	B	7/7 (100%)	6±0 (86±0%)	2±1 (26±13%)	0.00±0.00
All	All	126/140 (90%)	120 (95%)	36 (29%)	0.00

The overall RNA backbone suiteness is 0.01.

All unique RNA backbone outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
2	B	2	C	20
2	B	3	G	20
2	B	4	G	20
2	B	5	6MZ	20
2	B	6	C	20
2	B	7	U	20

All unique RNA pucker outliers are listed below:

Mol	Chain	Res	Type	Models (Total)
2	B	3	G	15
2	B	2	C	13
2	B	1	U	6
2	B	6	C	2

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

1 non-standard protein/DNA/RNA residue is modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
2	6MZ	B	5	2	22,25,26	0.96±0.02	1±0 (4±0%)

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

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
2	6MZ	B	5	2	30,36,39	1.13±0.03	4±0 (13±0%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	6MZ	B	5	2	-	0±0,9,27,28	0±0,3,3,3

All unique bond outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	B	5	6MZ	C9-N6	4.07	1.38	1.45	18	20

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

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
2	B	5	6MZ	O4'-C1'-N9	3.29	114.55	108.06	14	20
2	B	5	6MZ	C9-N6-C6	3.25	120.07	122.87	8	20
2	B	5	6MZ	O5'-C5'-C4'	2.54	117.64	108.99	16	20
2	B	5	6MZ	O4'-C1'-C2'	2.29	101.64	106.64	12	20

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

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

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 62% for the well-defined parts and 55% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *starch_output*

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	1472
Number of shifts mapped to atoms	1472
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 ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	133	-0.25 ± 0.16	None needed (< 0.5 ppm)
$^{13}C_{\beta}$	135	0.16 ± 0.12	None needed (< 0.5 ppm)
$^{13}C'$	0	—	None (insufficient data)
^{15}N	0	—	None (insufficient data)

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 62%, i.e. 1345 atoms were assigned a chemical shift out of a possible 2174. 0 out of 22 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	380/738 (51%)	256/300 (85%)	124/298 (42%)	0/140 (0%)
Sidechain	945/1224 (77%)	664/797 (83%)	281/375 (75%)	0/52 (0%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	20/100 (20%)	20/49 (41%)	0/43 (0%)	0/8 (0%)
Sugar	0/66 (0%)	0/36 (0%)	0/30 (0%)	0/0 (—%)
Base	0/46 (0%)	0/28 (0%)	0/10 (0%)	0/8 (0%)
Overall	1345/2174 (62%)	940/1210 (78%)	405/756 (54%)	0/208 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 55%, i.e. 1472 atoms were assigned a chemical shift out of a possible 2668. 0 out of 24 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	416/944 (44%)	283/385 (74%)	133/382 (35%)	0/177 (0%)
Sidechain	1028/1474 (70%)	722/959 (75%)	306/455 (67%)	0/60 (0%)
Aromatic	28/138 (20%)	28/68 (41%)	0/60 (0%)	0/10 (0%)
Sugar	0/66 (0%)	0/36 (0%)	0/30 (0%)	0/0 (—%)
Base	0/46 (0%)	0/28 (0%)	0/10 (0%)	0/8 (0%)
Overall	1472/2668 (55%)	1033/1476 (70%)	439/937 (47%)	0/255 (0%)

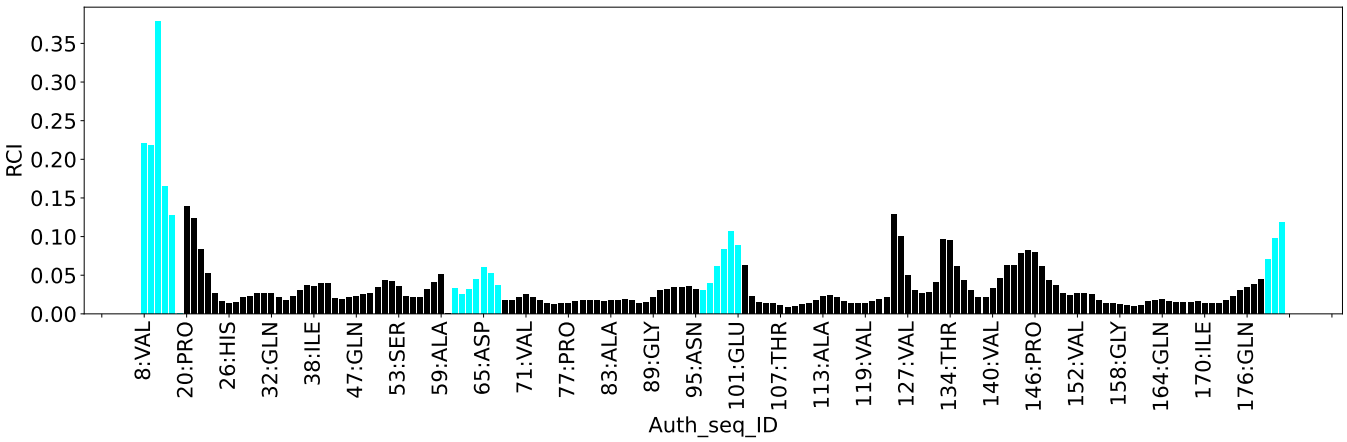
7.1.4 Statistically unusual chemical shifts (i)

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:


RCI
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
8:VAL
20:PRO
26:HIS
32:GLN
38:ILE
47:GLN
53:SER
59:ALA
65:ASP
71:VAL
77:PRO
83:ALA
89:GLY
95:ASN
101:GLU
107:THR
113:ALA
119:VAL
127:VAL
134:THR
140:VAL
146:PRO
152:VAL
158:GLY
164:GLN
170:ILE
176:GLN
Auth_seq_ID

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	2498
Intra-residue (|i-j|=0)	1359
Sequential (|i-j|=1)	483
Medium range (|i-j|>1 and |i-j|<5)	188
Long range (|i-j|≥5)	409
Inter-chain	47
Hydrogen bond restraints	12
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	12.6
Number of long range restraints per residue[1]	2.1

[1]Long 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)	161.2	0.2
0.2-0.5 (Medium)	319.2	0.5
>0.5 (Large)	368.7	7.44

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

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

9 Distance violation analysis (i)

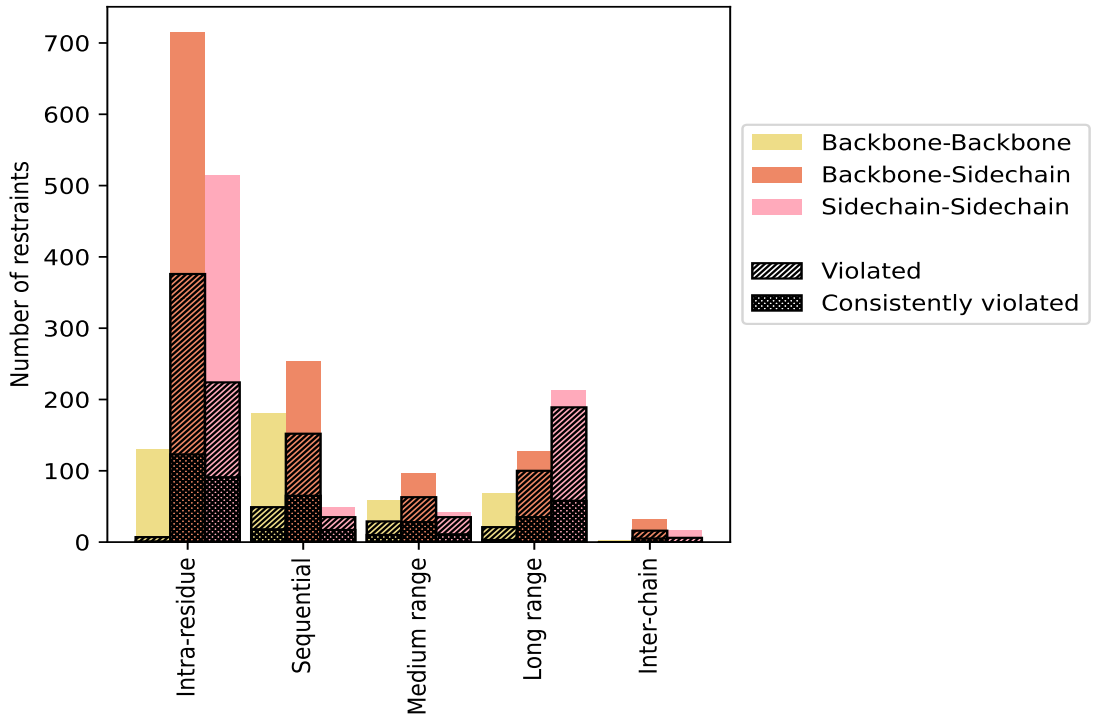
9.1 Summary of distance violations (i)

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

Restraints type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
Intra-residue (|i-j|=0)	1359	54.4	607	44.7	24.3	215	15.8	8.6
Backbone-Backbone	130	5.2	7	5.4	0.3	1	0.8	0.0
Backbone-Sidechain	715	28.6	376	52.6	15.1	123	17.2	4.9
Sidechain-Sidechain	514	20.6	224	43.6	9.0	91	17.7	3.6
Sequential (|i-j|=1)	483	19.3	236	48.9	9.4	100	20.7	4.0
Backbone-Backbone	181	7.2	49	27.1	2.0	18	9.9	0.7
Backbone-Sidechain	253	10.1	152	60.1	6.1	65	25.7	2.6
Sidechain-Sidechain	49	2.0	35	71.4	1.4	17	34.7	0.7
Medium range (|i-j|>1 & |i-j|<5)	188	7.5	127	67.6	5.1	49	26.1	2.0
Backbone-Backbone	58	2.3	29	50.0	1.2	10	17.2	0.4
Backbone-Sidechain	88	3.5	63	71.6	2.5	28	31.8	1.1
Sidechain-Sidechain	42	1.7	35	83.3	1.4	11	26.2	0.4
Long range (|i-j|≥5)	409	16.4	310	75.8	12.4	96	23.5	3.8
Backbone-Backbone	69	2.8	21	30.4	0.8	3	4.3	0.1
Backbone-Sidechain	127	5.1	100	78.7	4.0	35	27.6	1.4
Sidechain-Sidechain	213	8.5	189	88.7	7.6	58	27.2	2.3
Inter-chain	47	1.9	18	38.3	0.7	3	6.4	0.1
Backbone-Backbone	2	0.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	30	1.2	14	46.7	0.6	3	10.0	0.1
Sidechain-Sidechain	15	0.6	4	26.7	0.2	0	0.0	0.0
Hydrogen bond	12	0.5	4	33.3	0.2	2	16.7	0.1
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2498	100.0	1302	52.1	52.1	465	18.6	18.6
Backbone-Backbone	440	17.6	106	24.1	4.2	32	7.3	1.3
Backbone-Sidechain	1223	49.0	707	57.8	28.3	256	20.9	10.2
Sidechain-Sidechain	835	33.4	489	58.6	19.6	177	21.2	7.1

[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



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

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	394	168	84	195	11	852	0.63	5.85	0.63	0.42
2	389	171	81	198	11	850	0.63	5.48	0.63	0.42
3	393	165	80	198	11	847	0.63	5.6	0.62	0.42
4	395	168	82	204	11	860	0.62	5.56	0.62	0.41
5	385	170	85	200	12	852	0.65	5.27	0.65	0.41
6	393	170	83	203	10	859	0.65	5.61	0.67	0.42
7	395	162	85	200	11	853	0.64	6.02	0.64	0.42
8	388	175	83	208	10	864	0.65	6.04	0.65	0.42
9	395	171	81	199	12	858	0.64	5.62	0.63	0.42
10	387	164	83	198	9	841	0.65	7.05	0.66	0.42

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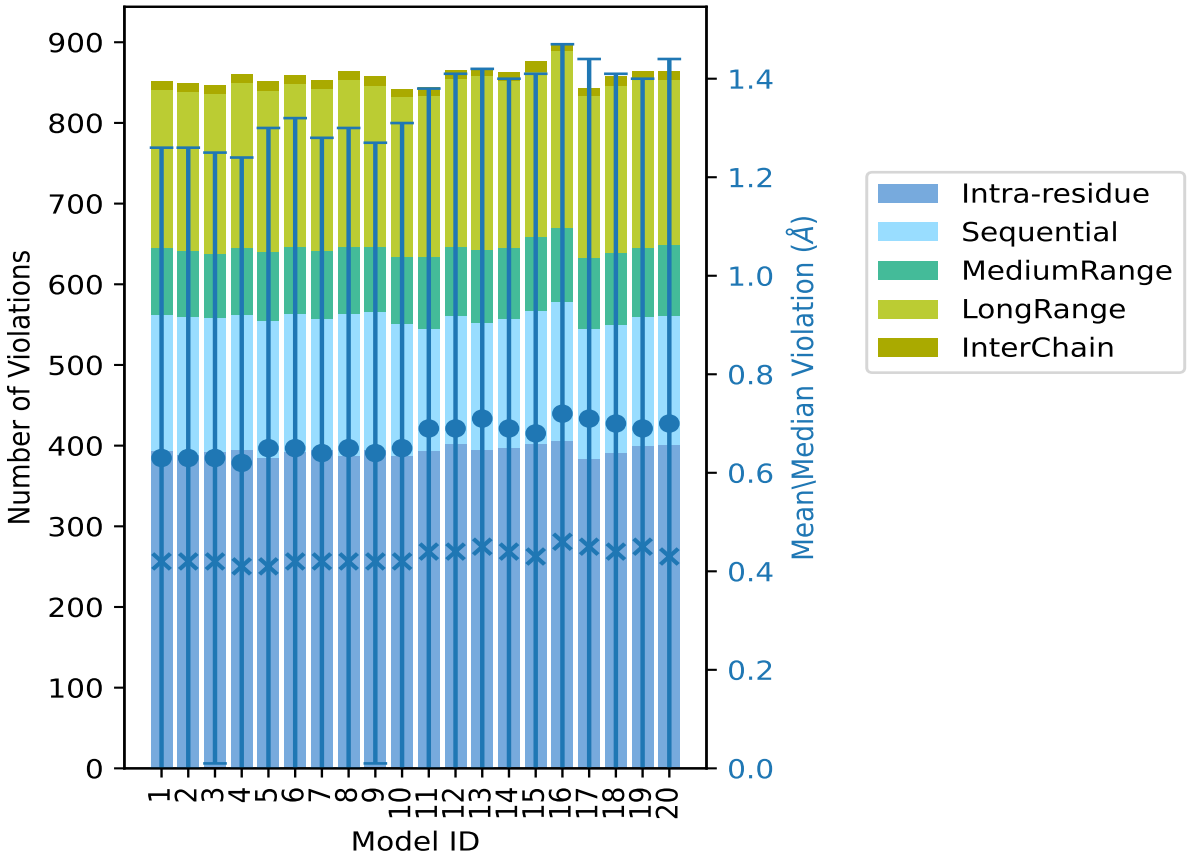
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
11	393	152	89	199	11	844	0.69	7.11	0.69	0.44
12	402	159	85	209	11	866	0.69	6.12	0.72	0.44
13	395	157	91	216	9	868	0.71	6.2	0.71	0.45
14	398	159	89	207	10	863	0.69	6.02	0.71	0.44
15	403	164	92	204	13	876	0.68	5.97	0.73	0.43
16	406	172	92	220	9	899	0.72	7.44	0.75	0.46
17	383	161	88	202	9	843	0.71	5.94	0.73	0.45
18	391	159	89	207	12	858	0.7	5.19	0.71	0.44
19	399	161	85	209	10	864	0.69	5.69	0.71	0.45
20	401	160	88	204	11	864	0.7	6.93	0.74	0.43

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

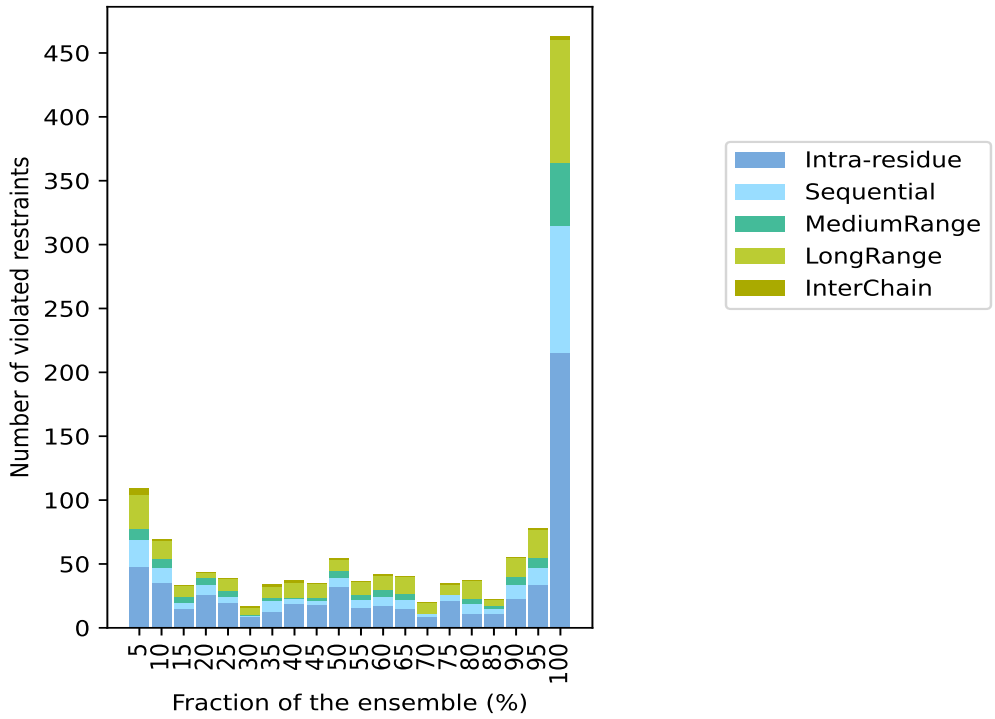
9.3 Distance violation statistics for the ensemble (i)

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, 1188(IR:752, SQ:247, MR:61, LR:99, IC:29) 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]	%
48	21	9	26	5	109	1	5.0
35	12	7	14	1	69	2	10.0
15	5	4	9	0	33	3	15.0
26	8	5	4	0	43	4	20.0
20	4	5	10	0	39	5	25.0
9	1	0	6	1	17	6	30.0
13	8	3	8	2	34	7	35.0
19	4	1	11	2	37	8	40.0
18	3	3	11	0	35	9	45.0
32	7	6	8	1	54	10	50.0
16	6	4	10	0	36	11	55.0
17	7	6	11	1	42	12	60.0
15	7	5	13	0	40	13	65.0
9	2	0	9	0	20	14	70.0
21	5	0	8	1	35	15	75.0
11	8	4	14	0	37	16	80.0
11	4	2	5	0	22	17	85.0
23	11	6	15	0	55	18	90.0
34	13	8	22	1	78	19	95.0
215	100	49	96	3	463	20	100.0

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

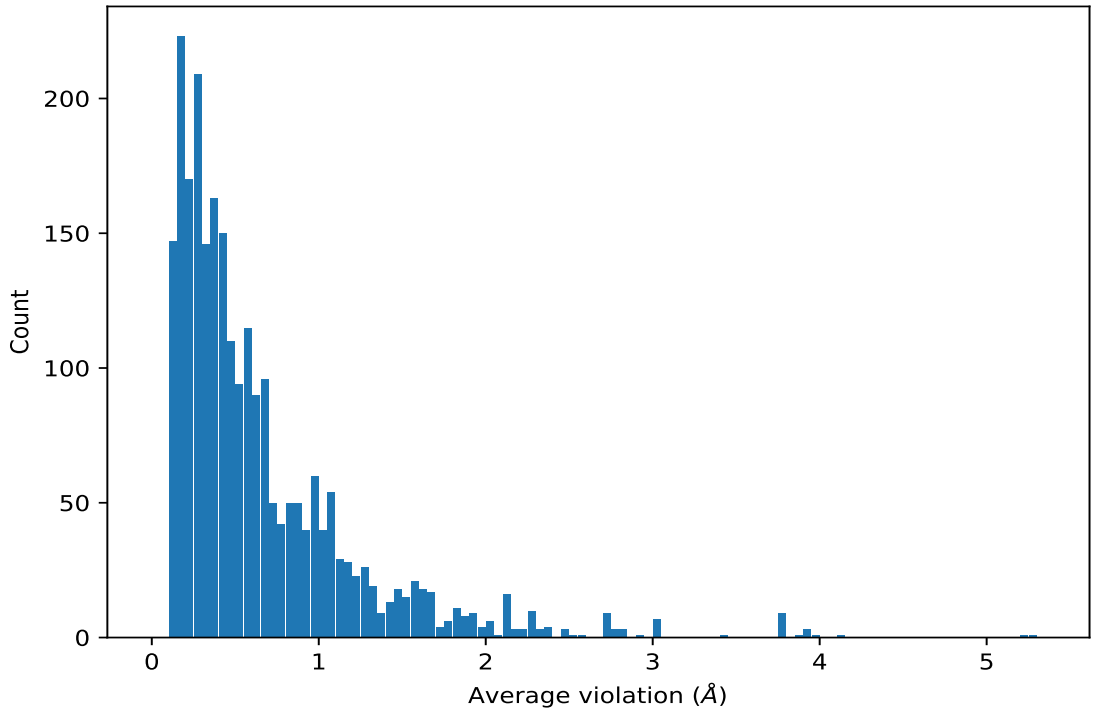
9.3.1 Bar graph : Distance violation statistics for the ensemble



9.4 Most violated distance restraints in the ensemble

9.4.1 Histogram : Distribution of mean distance 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



9.4.2 Table: Most violated distance restraints

The following table provides the mean and the standard deviation of theviolation 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)
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	20	5.27	1.28	5.44
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	20	5.21	0.48	5.11
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	20	4.11	0.47	4.17
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	20	3.95	0.32	3.91
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG13	20	3.9	0.03	3.9
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG11	20	3.9	0.03	3.9
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG12	20	3.9	0.03	3.9
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	20	3.89	0.65	3.52
(1,690)	1:38:A:ILE:HG23	1:58:A:ILE:HD11	20	3.77	0.45	3.8
(1,690)	1:38:A:ILE:HG23	1:58:A:ILE:HD12	20	3.77	0.45	3.8
(1,690)	1:38:A:ILE:HG21	1:58:A:ILE:HD12	20	3.77	0.45	3.8
(1,690)	1:38:A:ILE:HG21	1:58:A:ILE:HD13	20	3.77	0.45	3.8
(1,690)	1:38:A:ILE:HG22	1:58:A:ILE:HD13	20	3.77	0.45	3.8
(1,690)	1:38:A:ILE:HG21	1:58:A:ILE:HD11	20	3.77	0.45	3.8
(1,690)	1:38:A:ILE:HG23	1:58:A:ILE:HD13	20	3.77	0.45	3.8
(1,690)	1:38:A:ILE:HG22	1:58:A:ILE:HD12	20	3.77	0.45	3.8

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,690)	1:38:A:ILE:HG22	1:58:A:ILE:HD11	20	3.77	0.45	3.8
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	20	3.44	1.41	2.94
(1,239)	1:58:A:ILE:HD12	1:45:A:ILE:HG22	20	3.03	0.34	3.12
(1,239)	1:58:A:ILE:HD13	1:45:A:ILE:HG23	20	3.03	0.34	3.12
(1,239)	1:58:A:ILE:HD11	1:45:A:ILE:HG21	20	3.03	0.34	3.12
(1,239)	1:58:A:ILE:HD13	1:45:A:ILE:HG22	20	3.03	0.34	3.12
(1,239)	1:58:A:ILE:HD13	1:45:A:ILE:HG21	20	3.03	0.34	3.12
(1,239)	1:58:A:ILE:HD11	1:45:A:ILE:HG23	20	3.03	0.34	3.12
(1,239)	1:58:A:ILE:HD12	1:45:A:ILE:HG21	20	3.03	0.34	3.12
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	20	2.93	0.25	2.93
(1,1041)	1:91:A:LEU:HD23	1:96:A:PHE:HD1	20	2.77	0.42	2.82
(1,1041)	1:91:A:LEU:HD22	1:96:A:PHE:HD1	20	2.77	0.42	2.82
(1,1041)	1:91:A:LEU:HD21	1:96:A:PHE:HD1	20	2.77	0.42	2.82
(1,886)	1:27:A:VAL:HG12	1:73:A:ILE:HG23	20	2.72	1.9	2.68
(1,886)	1:27:A:VAL:HG12	1:73:A:ILE:HG21	20	2.72	1.9	2.68
(1,886)	1:27:A:VAL:HG11	1:73:A:ILE:HG23	20	2.72	1.9	2.68
(1,886)	1:27:A:VAL:HG11	1:73:A:ILE:HG21	20	2.72	1.9	2.68
(1,886)	1:27:A:VAL:HG13	1:73:A:ILE:HG23	20	2.72	1.9	2.68
(1,886)	1:27:A:VAL:HG13	1:73:A:ILE:HG22	20	2.72	1.9	2.68
(1,886)	1:27:A:VAL:HG12	1:73:A:ILE:HG22	20	2.72	1.9	2.68
(1,886)	1:27:A:VAL:HG11	1:73:A:ILE:HG22	20	2.72	1.9	2.68
(1,886)	1:27:A:VAL:HG13	1:73:A:ILE:HG21	20	2.72	1.9	2.68
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	20	2.52	1.52	1.94
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD13	20	2.48	1.88	2.23
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD12	20	2.48	1.88	2.23
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD11	20	2.48	1.88	2.23
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	20	2.36	0.52	2.48
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG12	20	2.33	0.06	2.33
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG13	20	2.33	0.06	2.33
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG11	20	2.33	0.06	2.33
(1,686)	1:174:A:LEU:HD22	1:171:A:ARG:HA	20	2.29	0.07	2.28
(1,686)	1:174:A:LEU:HD21	1:171:A:ARG:HA	20	2.29	0.07	2.28
(1,686)	1:174:A:LEU:HD23	1:171:A:ARG:HA	20	2.29	0.07	2.28
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	20	2.28	0.44	1.96
(1,597)	1:54:A:ALA:HB3	1:55:A:SER:HB2	20	2.25	0.3	2.33
(1,597)	1:54:A:ALA:HB1	1:55:A:SER:HB2	20	2.25	0.3	2.33
(1,597)	1:54:A:ALA:HB2	1:55:A:SER:HB2	20	2.25	0.3	2.33
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB1	20	2.2	0.46	2.12
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB3	20	2.2	0.46	2.12
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB2	20	2.2	0.46	2.12
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG12	20	2.16	1.5	2.3
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG11	20	2.16	1.5	2.3

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG13	20	2.16	1.5	2.3
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	20	2.1	0.33	2.07
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	20	2.1	0.33	2.07
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	20	2.1	0.33	2.07
(1,1555)	1:48:A:LEU:HD23	1:87:A:ILE:HG22	20	2.1	1.65	1.36
(1,1555)	1:48:A:LEU:HD22	1:87:A:ILE:HG23	20	2.1	1.65	1.36
(1,1555)	1:48:A:LEU:HD23	1:87:A:ILE:HG21	20	2.1	1.65	1.36
(1,1555)	1:48:A:LEU:HD22	1:87:A:ILE:HG21	20	2.1	1.65	1.36
(1,1555)	1:48:A:LEU:HD22	1:87:A:ILE:HG22	20	2.1	1.65	1.36
(1,1555)	1:48:A:LEU:HD21	1:87:A:ILE:HG22	20	2.1	1.65	1.36
(1,1555)	1:48:A:LEU:HD21	1:87:A:ILE:HG21	20	2.1	1.65	1.36
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	20	2.09	1.0	1.94
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB1	20	2.04	0.13	2.07
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB3	20	2.04	0.13	2.07
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB2	20	2.04	0.13	2.07
(1,716)	1:153:A:ILE:HD13	1:153:A:ILE:HA	20	2.03	0.05	2.05
(1,716)	1:153:A:ILE:HD11	1:153:A:ILE:HA	20	2.03	0.05	2.05
(1,716)	1:153:A:ILE:HD12	1:153:A:ILE:HA	20	2.03	0.05	2.05
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	20	1.99	0.14	2.01
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	20	1.96	0.05	1.98
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	20	1.95	0.32	2.06
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	20	1.95	0.31	1.85
(1,932)	1:109:A:ILE:HD11	1:107:A:THR:HG23	20	1.9	1.05	2.62
(1,932)	1:109:A:ILE:HD13	1:107:A:THR:HG21	20	1.9	1.05	2.62
(1,932)	1:109:A:ILE:HD13	1:107:A:THR:HG22	20	1.9	1.05	2.62
(1,932)	1:109:A:ILE:HD12	1:107:A:THR:HG23	20	1.9	1.05	2.62
(1,932)	1:109:A:ILE:HD13	1:107:A:THR:HG23	20	1.9	1.05	2.62
(1,932)	1:109:A:ILE:HD12	1:107:A:THR:HG21	20	1.9	1.05	2.62
(1,932)	1:109:A:ILE:HD12	1:107:A:THR:HG22	20	1.9	1.05	2.62
(1,932)	1:109:A:ILE:HD11	1:107:A:THR:HG22	20	1.9	1.05	2.62
(1,932)	1:109:A:ILE:HD11	1:107:A:THR:HG21	20	1.9	1.05	2.62
(1,1278)	1:173:A:ILE:HD13	1:173:A:ILE:HA	20	1.88	0.04	1.89
(1,1278)	1:173:A:ILE:HD12	1:173:A:ILE:HA	20	1.88	0.04	1.89
(1,1278)	1:173:A:ILE:HD11	1:173:A:ILE:HA	20	1.88	0.04	1.89
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	20	1.87	0.47	1.72
(1,1017)	1:173:A:ILE:HG21	1:126:A:THR:HG21	20	1.84	0.63	2.03
(1,1017)	1:173:A:ILE:HG22	1:126:A:THR:HG21	20	1.84	0.63	2.03
(1,1017)	1:173:A:ILE:HG23	1:126:A:THR:HG23	20	1.84	0.63	2.03
(1,1017)	1:173:A:ILE:HG22	1:126:A:THR:HG23	20	1.84	0.63	2.03
(1,1017)	1:173:A:ILE:HG23	1:126:A:THR:HG22	20	1.84	0.63	2.03
(1,1017)	1:173:A:ILE:HG21	1:126:A:THR:HG22	20	1.84	0.63	2.03
(1,1017)	1:173:A:ILE:HG21	1:126:A:THR:HG23	20	1.84	0.63	2.03

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1017)	1:173:A:ILE:HG22	1:126:A:THR:HG22	20	1.84	0.63	2.03
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	20	1.82	0.02	1.82
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	20	1.82	0.62	1.54
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	20	1.81	0.07	1.8
(1,407)	1:120:A:ILE:HG22	1:117:A:GLY:HA3	20	1.75	0.62	1.96
(1,407)	1:120:A:ILE:HG21	1:117:A:GLY:HA3	20	1.75	0.62	1.96
(1,407)	1:120:A:ILE:HG23	1:117:A:GLY:HA3	20	1.75	0.62	1.96
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	20	1.74	0.43	1.71
(1,226)	1:48:A:LEU:HD12	1:87:A:ILE:HA	20	1.72	0.75	1.98
(1,226)	1:48:A:LEU:HD13	1:87:A:ILE:HA	20	1.72	0.75	1.98
(1,226)	1:48:A:LEU:HD11	1:87:A:ILE:HA	20	1.72	0.75	1.98
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG22	20	1.67	0.08	1.69
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG23	20	1.67	0.08	1.69
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG21	20	1.67	0.08	1.69
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD12	20	1.66	0.01	1.66
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD13	20	1.66	0.01	1.66
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD11	20	1.66	0.01	1.66
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	20	1.66	0.28	1.67
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG21	20	1.65	0.06	1.63
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG22	20	1.65	0.06	1.63
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG23	20	1.65	0.06	1.63
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	20	1.65	0.21	1.63
(1,615)	1:113:A:ALA:HB3	1:112:A:PRO:HB2	20	1.63	0.13	1.68
(1,615)	1:113:A:ALA:HB2	1:112:A:PRO:HB2	20	1.63	0.13	1.68
(1,615)	1:113:A:ALA:HB1	1:112:A:PRO:HB2	20	1.63	0.13	1.68
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD11	20	1.63	0.03	1.62
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD12	20	1.63	0.03	1.62
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD13	20	1.63	0.03	1.62
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	20	1.63	0.58	1.88
(1,939)	1:153:A:ILE:HD13	1:108:A:HIS:HB2	20	1.6	0.09	1.62
(1,939)	1:153:A:ILE:HD11	1:108:A:HIS:HB2	20	1.6	0.09	1.62
(1,939)	1:153:A:ILE:HD12	1:108:A:HIS:HB2	20	1.6	0.09	1.62
(1,766)	1:157:A:ILE:HD13	1:106:A:GLU:HB3	20	1.6	0.7	1.92
(1,766)	1:157:A:ILE:HD11	1:106:A:GLU:HB3	20	1.6	0.7	1.92
(1,766)	1:157:A:ILE:HD12	1:106:A:GLU:HB3	20	1.6	0.7	1.92
(1,691)	1:103:A:VAL:HG21	1:105:A:LEU:HD21	20	1.59	0.58	1.71
(1,691)	1:103:A:VAL:HG21	1:105:A:LEU:HD22	20	1.59	0.58	1.71
(1,691)	1:103:A:VAL:HG23	1:105:A:LEU:HD21	20	1.59	0.58	1.71
(1,691)	1:103:A:VAL:HG23	1:105:A:LEU:HD23	20	1.59	0.58	1.71
(1,691)	1:103:A:VAL:HG22	1:105:A:LEU:HD23	20	1.59	0.58	1.71
(1,691)	1:103:A:VAL:HG23	1:105:A:LEU:HD22	20	1.59	0.58	1.71
(1,691)	1:103:A:VAL:HG22	1:105:A:LEU:HD21	20	1.59	0.58	1.71

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,691)	1:103:A:VAL:HG21	1:105:A:LEU:HD23	20	1.59	0.58	1.71
(1,1426)	1:56:A:ILE:HD11	1:48:A:LEU:HB2	20	1.58	0.43	1.52
(1,1426)	1:56:A:ILE:HD13	1:48:A:LEU:HB2	20	1.58	0.43	1.52
(1,1426)	1:56:A:ILE:HD12	1:48:A:LEU:HB2	20	1.58	0.43	1.52
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG23	20	1.57	0.65	1.33
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG22	20	1.57	0.65	1.33
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG21	20	1.57	0.65	1.33
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	20	1.56	0.35	1.61
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	20	1.52	0.07	1.52
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD13	20	1.52	1.05	1.18
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD12	20	1.52	1.05	1.18
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD11	20	1.52	1.05	1.18
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	20	1.52	0.32	1.7
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	20	1.51	0.36	1.71
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	20	1.51	0.11	1.54
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG21	20	1.51	0.25	1.44
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG23	20	1.51	0.25	1.44
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG22	20	1.51	0.25	1.44
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG12	20	1.49	0.08	1.5
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG13	20	1.49	0.08	1.5
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG11	20	1.49	0.08	1.5
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD12	20	1.46	0.08	1.43
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD13	20	1.46	0.08	1.43
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD11	20	1.46	0.08	1.43
(1,827)	1:91:A:LEU:HD23	1:30:A:PRO:HG3	20	1.45	0.32	1.53
(1,827)	1:91:A:LEU:HD22	1:30:A:PRO:HG3	20	1.45	0.32	1.53
(1,827)	1:91:A:LEU:HD21	1:30:A:PRO:HG3	20	1.45	0.32	1.53
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	20	1.44	0.37	1.57
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	20	1.43	0.4	1.52
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	20	1.42	0.81	1.54
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG21	20	1.4	0.03	1.41
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG22	20	1.4	0.03	1.41
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG23	20	1.4	0.03	1.41
(1,335)	1:24:A:THR:H	1:24:A:THR:HG23	20	1.4	0.04	1.42
(1,335)	1:24:A:THR:H	1:24:A:THR:HG22	20	1.4	0.04	1.42
(1,335)	1:24:A:THR:H	1:24:A:THR:HG21	20	1.4	0.04	1.42
(1,933)	1:109:A:ILE:HD12	1:109:A:ILE:HA	20	1.4	0.05	1.4
(1,933)	1:109:A:ILE:HD13	1:109:A:ILE:HA	20	1.4	0.05	1.4
(1,933)	1:109:A:ILE:HD11	1:109:A:ILE:HA	20	1.4	0.05	1.4
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB1	20	1.38	0.27	1.39
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB3	20	1.38	0.27	1.39
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB2	20	1.38	0.27	1.39

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	20	1.37	1.34	0.63
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG3	20	1.37	1.34	0.63
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD13	20	1.36	0.57	1.63
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD11	20	1.36	0.57	1.63
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD12	20	1.36	0.57	1.63
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	20	1.32	0.03	1.32
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	20	1.31	0.13	1.32
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG23	20	1.31	0.08	1.31
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG21	20	1.31	0.08	1.31
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG22	20	1.31	0.08	1.31
(1,400)	1:138:A:VAL:HG22	1:154:A:VAL:HG22	20	1.3	1.28	0.54
(1,400)	1:138:A:VAL:HG23	1:154:A:VAL:HG23	20	1.3	1.28	0.54
(1,400)	1:138:A:VAL:HG23	1:154:A:VAL:HG21	20	1.3	1.28	0.54
(1,400)	1:138:A:VAL:HG22	1:154:A:VAL:HG21	20	1.3	1.28	0.54
(1,400)	1:138:A:VAL:HG22	1:154:A:VAL:HG23	20	1.3	1.28	0.54
(1,400)	1:138:A:VAL:HG21	1:154:A:VAL:HG22	20	1.3	1.28	0.54
(1,400)	1:138:A:VAL:HG21	1:154:A:VAL:HG21	20	1.3	1.28	0.54
(1,400)	1:138:A:VAL:HG23	1:154:A:VAL:HG22	20	1.3	1.28	0.54
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD11	20	1.28	0.28	1.44
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD12	20	1.28	0.28	1.44
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD13	20	1.28	0.28	1.44
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG11	20	1.27	0.41	1.45
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG13	20	1.27	0.41	1.45
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG12	20	1.27	0.41	1.45
(1,1583)	1:59:A:ALA:HB1	1:70:A:MET:HB2	20	1.25	0.24	1.17
(1,1583)	1:59:A:ALA:HB2	1:70:A:MET:HB2	20	1.25	0.24	1.17
(1,1583)	1:59:A:ALA:HB3	1:70:A:MET:HB2	20	1.25	0.24	1.17
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	20	1.25	0.18	1.25
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD13	20	1.25	0.04	1.23
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD11	20	1.25	0.04	1.23
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD12	20	1.25	0.04	1.23
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG22	20	1.24	0.17	1.22
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG21	20	1.24	0.17	1.22
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG23	20	1.24	0.17	1.22
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD22	20	1.24	0.01	1.23
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD21	20	1.24	0.01	1.23
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD23	20	1.24	0.01	1.23
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	20	1.23	0.41	1.29
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	20	1.23	0.15	1.18
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	20	1.22	0.46	1.36
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	20	1.22	0.18	1.25
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	20	1.21	1.05	1.07

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG22	20	1.2	0.11	1.21
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG23	20	1.2	0.11	1.21
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG21	20	1.2	0.11	1.21
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	20	1.19	0.02	1.2
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	20	1.18	0.08	1.14
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	20	1.18	0.37	1.21
(1,1015)	1:170:A:ILE:HD11	1:130:A:LEU:HD13	20	1.17	0.85	1.02
(1,1015)	1:170:A:ILE:HD13	1:130:A:LEU:HD13	20	1.17	0.85	1.02
(1,1015)	1:170:A:ILE:HD13	1:130:A:LEU:HD12	20	1.17	0.85	1.02
(1,1015)	1:170:A:ILE:HD13	1:130:A:LEU:HD11	20	1.17	0.85	1.02
(1,1015)	1:170:A:ILE:HD12	1:130:A:LEU:HD12	20	1.17	0.85	1.02
(1,1015)	1:170:A:ILE:HD11	1:130:A:LEU:HD12	20	1.17	0.85	1.02
(1,1015)	1:170:A:ILE:HD11	1:130:A:LEU:HD11	20	1.17	0.85	1.02
(1,1015)	1:170:A:ILE:HD12	1:130:A:LEU:HD13	20	1.17	0.85	1.02
(1,1250)	1:58:A:ILE:HD11	1:58:A:ILE:HB	20	1.17	0.06	1.18
(1,1250)	1:58:A:ILE:HD12	1:58:A:ILE:HB	20	1.17	0.06	1.18
(1,1250)	1:58:A:ILE:HD13	1:58:A:ILE:HB	20	1.17	0.06	1.18
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD12	20	1.16	0.09	1.17
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD11	20	1.16	0.09	1.17
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD13	20	1.16	0.09	1.17
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG22	20	1.16	0.1	1.16
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG23	20	1.16	0.1	1.16
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG21	20	1.16	0.1	1.16
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD12	20	1.15	0.57	1.0
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD11	20	1.15	0.57	1.0
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD13	20	1.15	0.57	1.0
(1,757)	1:79:A:ALA:HB2	1:53:A:SER:HB2	20	1.14	0.04	1.14
(1,757)	1:79:A:ALA:HB1	1:53:A:SER:HB2	20	1.14	0.04	1.14
(1,757)	1:79:A:ALA:HB3	1:53:A:SER:HB2	20	1.14	0.04	1.14
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	20	1.12	0.03	1.13
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	20	1.12	0.01	1.12
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD11	20	1.12	0.05	1.13
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD12	20	1.12	0.05	1.13
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD13	20	1.12	0.05	1.13
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	20	1.11	0.06	1.13
(1,698)	1:25:A:VAL:HG12	1:107:A:THR:HB	20	1.11	0.35	0.94
(1,698)	1:25:A:VAL:HG11	1:107:A:THR:HB	20	1.11	0.35	0.94
(1,698)	1:25:A:VAL:HG13	1:107:A:THR:HB	20	1.11	0.35	0.94
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG21	20	1.1	0.21	1.13
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG23	20	1.1	0.21	1.13
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG22	20	1.1	0.21	1.13
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	20	1.09	0.61	0.92

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1554)	1:113:A:ALA:HB1	1:152:A:VAL:HG22	20	1.09	0.04	1.08
(1,1554)	1:113:A:ALA:HB3	1:152:A:VAL:HG22	20	1.09	0.04	1.08
(1,1554)	1:113:A:ALA:HB3	1:152:A:VAL:HG23	20	1.09	0.04	1.08
(1,1554)	1:113:A:ALA:HB1	1:152:A:VAL:HG21	20	1.09	0.04	1.08
(1,1554)	1:113:A:ALA:HB1	1:152:A:VAL:HG23	20	1.09	0.04	1.08
(1,1554)	1:113:A:ALA:HB2	1:152:A:VAL:HG22	20	1.09	0.04	1.08
(1,1554)	1:113:A:ALA:HB2	1:152:A:VAL:HG23	20	1.09	0.04	1.08
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG21	20	1.09	0.25	1.16
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG22	20	1.09	0.25	1.16
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG23	20	1.09	0.25	1.16
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	20	1.08	0.02	1.07
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG22	20	1.07	0.06	1.06
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG21	20	1.07	0.06	1.06
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG23	20	1.07	0.06	1.06
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	20	1.07	0.16	1.04
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG21	20	1.07	0.03	1.07
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG23	20	1.07	0.03	1.07
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG22	20	1.07	0.03	1.07
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	20	1.07	0.12	1.08
(1,830)	1:72:A:VAL:HG21	1:57:A:LYS:HE2	20	1.06	0.39	1.12
(1,830)	1:72:A:VAL:HG22	1:57:A:LYS:HE3	20	1.06	0.39	1.12
(1,830)	1:72:A:VAL:HG23	1:57:A:LYS:HE3	20	1.06	0.39	1.12
(1,830)	1:72:A:VAL:HG21	1:57:A:LYS:HE3	20	1.06	0.39	1.12
(1,830)	1:72:A:VAL:HG22	1:57:A:LYS:HE2	20	1.06	0.39	1.12
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	20	1.06	0.12	1.06
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	20	1.05	0.84	1.03
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	20	1.05	0.12	1.06
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	20	1.05	0.81	0.74
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD2	20	1.05	0.81	0.74
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	20	1.05	0.03	1.06
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	20	1.05	0.22	1.05
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG21	20	1.04	1.05	0.5
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG23	20	1.04	1.05	0.5
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG22	20	1.04	1.05	0.5
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	20	1.03	0.04	1.05
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD11	20	1.03	0.52	1.0
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD13	20	1.03	0.52	1.0
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD12	20	1.03	0.52	1.0
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	20	1.02	0.33	1.1
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	20	1.01	0.48	1.01
(1,917)	1:74:A:THR:HG23	1:24:A:THR:HA	20	1.01	0.62	0.92
(1,917)	1:74:A:THR:HG21	1:24:A:THR:HA	20	1.01	0.62	0.92

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,917)	1:74:A:THR:HG22	1:24:A:THR:HA	20	1.01	0.62	0.92
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	20	1.0	0.05	1.02
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB1	20	1.0	0.17	1.07
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB2	20	1.0	0.17	1.07
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB3	20	1.0	0.17	1.07
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	20	1.0	0.04	1.0
(1,836)	1:45:A:ILE:HG23	1:46:A:LYS:HG2	20	0.99	0.07	0.97
(1,836)	1:45:A:ILE:HG21	1:46:A:LYS:HG2	20	0.99	0.07	0.97
(1,836)	1:45:A:ILE:HG22	1:46:A:LYS:HG2	20	0.99	0.07	0.97
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD13	20	0.99	0.16	0.98
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD11	20	0.99	0.16	0.98
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD12	20	0.99	0.16	0.98
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG21	20	0.99	0.11	0.94
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG22	20	0.99	0.11	0.94
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG23	20	0.99	0.11	0.94
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	20	0.99	0.32	0.9
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	20	0.99	0.26	0.99
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG23	20	0.98	0.02	0.98
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG21	20	0.98	0.02	0.98
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG22	20	0.98	0.02	0.98
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	20	0.98	0.07	1.0
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	20	0.98	0.88	0.22
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	20	0.98	0.01	0.98
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	20	0.97	0.17	1.06
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG12	20	0.97	0.06	0.96
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG11	20	0.97	0.06	0.96
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG13	20	0.97	0.06	0.96
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	20	0.96	0.06	0.98
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG22	20	0.96	0.04	0.96
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG23	20	0.96	0.04	0.96
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG21	20	0.96	0.04	0.96
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB2	20	0.96	0.12	0.93
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB1	20	0.96	0.12	0.93
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB3	20	0.96	0.12	0.93
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	20	0.96	0.07	0.93
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	20	0.95	0.37	1.04
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	20	0.95	0.02	0.96
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG21	20	0.95	0.04	0.96
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG23	20	0.95	0.04	0.96
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG22	20	0.95	0.04	0.96
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB3	20	0.95	0.14	0.94
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB2	20	0.95	0.14	0.94

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB1	20	0.95	0.14	0.94
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	20	0.94	0.15	0.99
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	20	0.93	0.18	0.88
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	20	0.93	0.16	0.96
(1,310)	1:145:A:THR:H	1:145:A:THR:HG21	20	0.93	0.1	0.92
(1,310)	1:145:A:THR:H	1:145:A:THR:HG23	20	0.93	0.1	0.92
(1,310)	1:145:A:THR:H	1:145:A:THR:HG22	20	0.93	0.1	0.92
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	20	0.93	0.01	0.92
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG23	20	0.92	0.07	0.92
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG21	20	0.92	0.07	0.92
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG22	20	0.92	0.07	0.92
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	20	0.92	0.04	0.9
(1,1307)	1:107:A:THR:HG22	1:27:A:VAL:H	20	0.91	0.37	0.74
(1,1307)	1:107:A:THR:HG23	1:27:A:VAL:H	20	0.91	0.37	0.74
(1,1307)	1:107:A:THR:HG21	1:27:A:VAL:H	20	0.91	0.37	0.74
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	20	0.9	0.07	0.9
(1,1522)	1:33:A:ALA:HB3	1:30:A:PRO:HG3	20	0.9	0.21	0.94
(1,1522)	1:33:A:ALA:HB2	1:30:A:PRO:HG3	20	0.9	0.21	0.94
(1,1522)	1:33:A:ALA:HB1	1:30:A:PRO:HG3	20	0.9	0.21	0.94
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	20	0.89	0.42	1.21
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG21	20	0.89	0.1	0.9
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG22	20	0.89	0.1	0.9
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG23	20	0.89	0.1	0.9
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	20	0.88	0.04	0.88
(1,897)	1:173:A:ILE:HG22	1:173:A:ILE:HG13	20	0.88	0.03	0.87
(1,897)	1:173:A:ILE:HG23	1:173:A:ILE:HG13	20	0.88	0.03	0.87
(1,897)	1:173:A:ILE:HG21	1:173:A:ILE:HG13	20	0.88	0.03	0.87
(1,1532)	1:177:A:VAL:HG13	1:178:A:LYS:HG2	20	0.87	0.31	0.79
(1,1532)	1:177:A:VAL:HG12	1:178:A:LYS:HG2	20	0.87	0.31	0.79
(1,1532)	1:177:A:VAL:HG11	1:178:A:LYS:HG2	20	0.87	0.31	0.79
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	20	0.87	0.94	0.28
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG12	20	0.87	0.53	0.7
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG13	20	0.87	0.53	0.7
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG11	20	0.87	0.53	0.7
(1,326)	1:111:A:VAL:HG23	1:116:A:ALA:HB1	20	0.86	0.12	0.87
(1,326)	1:111:A:VAL:HG21	1:116:A:ALA:HB2	20	0.86	0.12	0.87
(1,326)	1:111:A:VAL:HG23	1:116:A:ALA:HB3	20	0.86	0.12	0.87
(1,326)	1:111:A:VAL:HG22	1:116:A:ALA:HB3	20	0.86	0.12	0.87
(1,326)	1:111:A:VAL:HG22	1:116:A:ALA:HB1	20	0.86	0.12	0.87
(1,326)	1:111:A:VAL:HG21	1:116:A:ALA:HB3	20	0.86	0.12	0.87
(1,326)	1:111:A:VAL:HG22	1:116:A:ALA:HB2	20	0.86	0.12	0.87
(1,326)	1:111:A:VAL:HG21	1:116:A:ALA:HB1	20	0.86	0.12	0.87

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,326)	1:111:A:VAL:HG23	1:116:A:ALA:HB2	20	0.86	0.12	0.87
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	20	0.86	0.02	0.86
(1,371)	1:119:A:VAL:HG21	1:119:A:VAL:HA	20	0.86	0.06	0.84
(1,371)	1:119:A:VAL:HG23	1:119:A:VAL:HA	20	0.86	0.06	0.84
(1,371)	1:119:A:VAL:HG22	1:119:A:VAL:HA	20	0.86	0.06	0.84
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG23	20	0.85	0.08	0.86
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG21	20	0.85	0.08	0.86
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG22	20	0.85	0.08	0.86
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	20	0.84	0.35	0.9
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB2	20	0.84	0.09	0.79
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB1	20	0.84	0.09	0.79
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB3	20	0.84	0.09	0.79
(1,1535)	1:170:A:ILE:HD12	1:170:A:ILE:HG22	20	0.83	0.76	0.38
(1,1535)	1:170:A:ILE:HD11	1:170:A:ILE:HG22	20	0.83	0.76	0.38
(1,1535)	1:170:A:ILE:HD12	1:170:A:ILE:HG23	20	0.83	0.76	0.38
(1,1535)	1:170:A:ILE:HD11	1:170:A:ILE:HG21	20	0.83	0.76	0.38
(1,1535)	1:170:A:ILE:HD13	1:170:A:ILE:HG21	20	0.83	0.76	0.38
(1,1535)	1:170:A:ILE:HD12	1:170:A:ILE:HG21	20	0.83	0.76	0.38
(1,1535)	1:170:A:ILE:HD11	1:170:A:ILE:HG23	20	0.83	0.76	0.38
(1,1535)	1:170:A:ILE:HD13	1:170:A:ILE:HG23	20	0.83	0.76	0.38
(1,1535)	1:170:A:ILE:HD13	1:170:A:ILE:HG22	20	0.83	0.76	0.38
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	20	0.83	0.67	0.34
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD13	20	0.82	0.42	0.97
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD11	20	0.82	0.42	0.97
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD12	20	0.82	0.42	0.97
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	20	0.81	0.24	0.75
(1,1441)	1:154:A:VAL:HG21	1:140:A:VAL:HA	20	0.81	0.76	0.47
(1,1441)	1:154:A:VAL:HG22	1:140:A:VAL:HA	20	0.81	0.76	0.47
(1,1441)	1:154:A:VAL:HG23	1:140:A:VAL:HA	20	0.81	0.76	0.47
(1,949)	1:111:A:VAL:HG23	1:112:A:PRO:HD3	20	0.81	0.16	0.88
(1,949)	1:111:A:VAL:HG21	1:112:A:PRO:HD3	20	0.81	0.16	0.88
(1,949)	1:111:A:VAL:HG22	1:112:A:PRO:HD3	20	0.81	0.16	0.88
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG13	20	0.81	0.81	0.48
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG12	20	0.81	0.81	0.48
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG11	20	0.81	0.81	0.48
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	20	0.81	0.07	0.78
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	20	0.8	0.41	0.82
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	20	0.8	0.74	0.38
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD12	20	0.8	0.37	0.66
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD13	20	0.8	0.37	0.66
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD11	20	0.8	0.37	0.66
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	20	0.79	0.08	0.79

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	20	0.79	0.47	1.16
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	20	0.77	0.2	0.72
(1,1569)	1:37:A:ILE:HG22	1:58:A:ILE:HG12	20	0.76	0.17	0.74
(1,1569)	1:37:A:ILE:HG23	1:58:A:ILE:HG12	20	0.76	0.17	0.74
(1,1569)	1:37:A:ILE:HG21	1:58:A:ILE:HG12	20	0.76	0.17	0.74
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	20	0.75	0.04	0.76
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG22	20	0.75	0.01	0.75
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG21	20	0.75	0.01	0.75
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG23	20	0.75	0.01	0.75
(1,1513)	1:157:A:ILE:HD12	1:139:A:VAL:HB	20	0.74	0.13	0.76
(1,1513)	1:157:A:ILE:HD13	1:139:A:VAL:HB	20	0.74	0.13	0.76
(1,1513)	1:157:A:ILE:HD11	1:139:A:VAL:HB	20	0.74	0.13	0.76
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG13	20	0.74	0.48	0.6
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG11	20	0.74	0.48	0.6
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG12	20	0.74	0.48	0.6
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	20	0.73	0.24	0.79
(1,1582)	1:59:A:ALA:HB1	1:70:A:MET:HG3	20	0.73	0.48	0.5
(1,1582)	1:59:A:ALA:HB2	1:70:A:MET:HG3	20	0.73	0.48	0.5
(1,1582)	1:59:A:ALA:HB3	1:70:A:MET:HG3	20	0.73	0.48	0.5
(1,1308)	1:154:A:VAL:HG12	1:153:A:ILE:HA	20	0.73	0.82	0.4
(1,1308)	1:154:A:VAL:HG13	1:153:A:ILE:HA	20	0.73	0.82	0.4
(1,1308)	1:154:A:VAL:HG11	1:153:A:ILE:HA	20	0.73	0.82	0.4
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	20	0.73	0.34	0.8
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	20	0.72	0.21	0.68
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD22	20	0.72	0.11	0.7
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD21	20	0.72	0.11	0.7
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD23	20	0.72	0.11	0.7
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD12	20	0.71	0.09	0.73
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD11	20	0.71	0.09	0.73
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD13	20	0.71	0.09	0.73
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG13	20	0.71	0.62	0.55
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG12	20	0.71	0.62	0.55
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG11	20	0.71	0.62	0.55
(1,1403)	1:37:A:ILE:HG22	1:29:A:ILE:HD11	20	0.69	0.32	0.55
(1,1403)	1:37:A:ILE:HG23	1:29:A:ILE:HD11	20	0.69	0.32	0.55
(1,1403)	1:37:A:ILE:HG23	1:29:A:ILE:HD12	20	0.69	0.32	0.55
(1,1403)	1:37:A:ILE:HG22	1:29:A:ILE:HD12	20	0.69	0.32	0.55
(1,1403)	1:37:A:ILE:HG21	1:29:A:ILE:HD13	20	0.69	0.32	0.55
(1,1403)	1:37:A:ILE:HG21	1:29:A:ILE:HD12	20	0.69	0.32	0.55
(1,1403)	1:37:A:ILE:HG23	1:29:A:ILE:HD13	20	0.69	0.32	0.55
(1,1403)	1:37:A:ILE:HG21	1:29:A:ILE:HD11	20	0.69	0.32	0.55
(1,1403)	1:37:A:ILE:HG22	1:29:A:ILE:HD13	20	0.69	0.32	0.55

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG23	20	0.69	0.06	0.7
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG22	20	0.69	0.06	0.7
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG21	20	0.69	0.06	0.7
(1,241)	1:152:A:VAL:HG21	1:116:A:ALA:HA	20	0.68	0.06	0.68
(1,241)	1:152:A:VAL:HG23	1:116:A:ALA:HA	20	0.68	0.06	0.68
(1,241)	1:152:A:VAL:HG22	1:116:A:ALA:HA	20	0.68	0.06	0.68
(1,1146)	1:174:A:LEU:HD22	1:111:A:VAL:HA	20	0.68	0.12	0.73
(1,1146)	1:174:A:LEU:HD21	1:111:A:VAL:HA	20	0.68	0.12	0.73
(1,1146)	1:174:A:LEU:HD23	1:111:A:VAL:HA	20	0.68	0.12	0.73
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	20	0.67	0.49	0.98
(1,1537)	1:91:A:LEU:HD23	1:96:A:PHE:HB2	20	0.67	0.39	0.56
(1,1537)	1:91:A:LEU:HD22	1:96:A:PHE:HB2	20	0.67	0.39	0.56
(1,1537)	1:91:A:LEU:HD21	1:96:A:PHE:HB2	20	0.67	0.39	0.56
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	20	0.67	0.01	0.67
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG12	20	0.67	0.07	0.66
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG11	20	0.67	0.07	0.66
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG13	20	0.67	0.07	0.66
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD21	20	0.67	0.05	0.67
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD23	20	0.67	0.05	0.67
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD22	20	0.67	0.05	0.67
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	20	0.66	0.17	0.74
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	20	0.65	0.25	0.88
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	20	0.65	0.27	0.42
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	20	0.65	0.29	0.66
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	20	0.65	0.01	0.65
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	20	0.64	0.06	0.62
(1,1600)	1:138:A:VAL:HG11	1:127:A:VAL:HG22	20	0.63	0.74	0.32
(1,1600)	1:138:A:VAL:HG13	1:127:A:VAL:HG23	20	0.63	0.74	0.32
(1,1600)	1:138:A:VAL:HG12	1:127:A:VAL:HG23	20	0.63	0.74	0.32
(1,1600)	1:138:A:VAL:HG12	1:127:A:VAL:HG22	20	0.63	0.74	0.32
(1,1600)	1:138:A:VAL:HG11	1:127:A:VAL:HG23	20	0.63	0.74	0.32
(1,1600)	1:138:A:VAL:HG13	1:127:A:VAL:HG21	20	0.63	0.74	0.32
(1,1600)	1:138:A:VAL:HG12	1:127:A:VAL:HG21	20	0.63	0.74	0.32
(1,1600)	1:138:A:VAL:HG11	1:127:A:VAL:HG21	20	0.63	0.74	0.32
(1,1600)	1:138:A:VAL:HG13	1:127:A:VAL:HG22	20	0.63	0.74	0.32
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	20	0.63	0.13	0.69
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	20	0.63	0.16	0.68
(1,1281)	1:29:A:ILE:HD11	1:34:A:VAL:HA	20	0.62	0.16	0.6
(1,1281)	1:29:A:ILE:HD12	1:34:A:VAL:HA	20	0.62	0.16	0.6
(1,1281)	1:29:A:ILE:HD13	1:34:A:VAL:HA	20	0.62	0.16	0.6
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB1	20	0.62	0.3	0.53
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB3	20	0.62	0.3	0.53

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB2	20	0.62	0.3	0.53
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	20	0.62	0.2	0.76
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB2	20	0.62	0.11	0.62
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB1	20	0.62	0.11	0.62
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB3	20	0.62	0.11	0.62
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	20	0.62	0.05	0.62
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	20	0.61	0.13	0.6
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	20	0.61	0.3	0.52
(1,1556)	1:87:A:ILE:HG22	1:87:A:ILE:HG13	20	0.61	0.09	0.64
(1,1556)	1:87:A:ILE:HG21	1:87:A:ILE:HG13	20	0.61	0.09	0.64
(1,1556)	1:87:A:ILE:HG23	1:87:A:ILE:HG13	20	0.61	0.09	0.64
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	20	0.61	0.16	0.62
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	20	0.61	0.01	0.61
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG12	20	0.61	0.13	0.61
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG13	20	0.61	0.13	0.61
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG11	20	0.61	0.13	0.61
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG12	20	0.61	0.24	0.57
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG13	20	0.61	0.24	0.57
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG11	20	0.61	0.24	0.57
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	20	0.61	0.21	0.61
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG22	20	0.6	0.16	0.62
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG21	20	0.6	0.16	0.62
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG23	20	0.6	0.16	0.62
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	20	0.6	0.17	0.71
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	20	0.6	0.32	0.73
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	20	0.6	0.28	0.84
(1,1242)	1:25:A:VAL:HG13	1:26:A:HIS:HA	20	0.6	0.75	0.34
(1,1242)	1:25:A:VAL:HG12	1:26:A:HIS:HA	20	0.6	0.75	0.34
(1,1242)	1:25:A:VAL:HG11	1:26:A:HIS:HA	20	0.6	0.75	0.34
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	20	0.59	0.01	0.59
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG21	20	0.59	0.13	0.59
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG22	20	0.59	0.13	0.59
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG23	20	0.59	0.13	0.59
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	20	0.59	0.21	0.56
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG21	20	0.59	0.21	0.48
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG22	20	0.59	0.21	0.48
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG23	20	0.59	0.21	0.48
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD12	20	0.59	0.3	0.5
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD11	20	0.59	0.3	0.5
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD13	20	0.59	0.3	0.5
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB1	20	0.58	0.04	0.58
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB2	20	0.58	0.04	0.58

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB3	20	0.58	0.04	0.58
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	20	0.58	0.06	0.62
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD2	20	0.58	0.06	0.62
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	20	0.58	0.17	0.6
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	20	0.58	0.01	0.58
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	20	0.58	0.09	0.57
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	20	0.58	0.2	0.57
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	20	0.57	0.02	0.57
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG13	20	0.57	0.04	0.57
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG12	20	0.57	0.04	0.57
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG11	20	0.57	0.04	0.57
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	20	0.57	0.22	0.53
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	20	0.57	0.14	0.62
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	20	0.57	0.08	0.56
(1,1335)	1:157:A:ILE:HD12	1:137:A:GLU:H	20	0.57	0.06	0.58
(1,1335)	1:157:A:ILE:HD13	1:137:A:GLU:H	20	0.57	0.06	0.58
(1,1335)	1:157:A:ILE:HD11	1:137:A:GLU:H	20	0.57	0.06	0.58
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	20	0.57	0.03	0.57
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG11	20	0.56	0.56	0.39
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG12	20	0.56	0.56	0.39
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG13	20	0.56	0.56	0.39
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG21	20	0.56	0.03	0.56
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG22	20	0.56	0.03	0.56
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG23	20	0.56	0.03	0.56
(1,942)	1:153:A:ILE:HG22	1:108:A:HIS:HD2	20	0.56	0.1	0.57
(1,942)	1:153:A:ILE:HG23	1:108:A:HIS:HD2	20	0.56	0.1	0.57
(1,942)	1:153:A:ILE:HG21	1:108:A:HIS:HD2	20	0.56	0.1	0.57
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG21	20	0.56	0.09	0.56
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG23	20	0.56	0.09	0.56
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG22	20	0.56	0.09	0.56
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	20	0.55	0.12	0.56
(1,1031)	1:68:A:VAL:HG13	1:28:A:PHE:HD1	20	0.55	0.33	0.4
(1,1031)	1:68:A:VAL:HG12	1:28:A:PHE:HD1	20	0.55	0.33	0.4
(1,1031)	1:68:A:VAL:HG11	1:28:A:PHE:HD1	20	0.55	0.33	0.4
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	20	0.55	0.31	0.31
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	20	0.55	0.08	0.57
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	20	0.55	0.14	0.6
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	20	0.55	0.19	0.47
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	20	0.55	0.02	0.54
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD12	20	0.54	0.07	0.54
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD13	20	0.54	0.07	0.54
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD11	20	0.54	0.07	0.54

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	20	0.54	0.02	0.55
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	20	0.54	0.08	0.49
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB2	20	0.54	0.03	0.53
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB1	20	0.54	0.03	0.53
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB3	20	0.54	0.03	0.53
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	20	0.54	0.05	0.55
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	20	0.53	0.09	0.5
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	20	0.53	0.31	0.48
(1,237)	1:37:A:ILE:HG22	1:34:A:VAL:HA	20	0.53	0.08	0.54
(1,237)	1:37:A:ILE:HG23	1:34:A:VAL:HA	20	0.53	0.08	0.54
(1,237)	1:37:A:ILE:HG21	1:34:A:VAL:HA	20	0.53	0.08	0.54
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	20	0.53	0.06	0.52
(1,1488)	1:45:A:ILE:HD12	1:45:A:ILE:HG22	20	0.53	0.3	0.4
(1,1488)	1:45:A:ILE:HD12	1:45:A:ILE:HG23	20	0.53	0.3	0.4
(1,1488)	1:45:A:ILE:HD13	1:45:A:ILE:HG21	20	0.53	0.3	0.4
(1,1488)	1:45:A:ILE:HD13	1:45:A:ILE:HG23	20	0.53	0.3	0.4
(1,1488)	1:45:A:ILE:HD13	1:45:A:ILE:HG22	20	0.53	0.3	0.4
(1,1488)	1:45:A:ILE:HD12	1:45:A:ILE:HG21	20	0.53	0.3	0.4
(1,1488)	1:45:A:ILE:HD11	1:45:A:ILE:HG21	20	0.53	0.3	0.4
(1,1488)	1:45:A:ILE:HD11	1:45:A:ILE:HG22	20	0.53	0.3	0.4
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB2	20	0.52	0.07	0.54
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB1	20	0.52	0.07	0.54
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB3	20	0.52	0.07	0.54
(1,1325)	1:145:A:THR:HG22	1:146:A:PRO:HB2	20	0.52	0.04	0.53
(1,1325)	1:145:A:THR:HG21	1:146:A:PRO:HB2	20	0.52	0.04	0.53
(1,1325)	1:145:A:THR:HG23	1:146:A:PRO:HB2	20	0.52	0.04	0.53
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	20	0.51	0.07	0.53
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG23	20	0.51	0.12	0.48
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG21	20	0.51	0.12	0.48
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG22	20	0.51	0.12	0.48
(1,871)	1:136:A:ALA:HB1	1:162:A:ALA:HA	20	0.51	0.11	0.53
(1,871)	1:136:A:ALA:HB3	1:162:A:ALA:HA	20	0.51	0.11	0.53
(1,871)	1:136:A:ALA:HB2	1:162:A:ALA:HA	20	0.51	0.11	0.53
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	20	0.51	0.01	0.51
(1,244)	1:29:A:ILE:HD12	1:29:A:ILE:HG23	20	0.51	0.27	0.48
(1,244)	1:29:A:ILE:HD12	1:29:A:ILE:HG21	20	0.51	0.27	0.48
(1,244)	1:29:A:ILE:HD13	1:29:A:ILE:HG22	20	0.51	0.27	0.48
(1,244)	1:29:A:ILE:HD11	1:29:A:ILE:HG22	20	0.51	0.27	0.48
(1,244)	1:29:A:ILE:HD12	1:29:A:ILE:HG22	20	0.51	0.27	0.48
(1,244)	1:29:A:ILE:HD13	1:29:A:ILE:HG21	20	0.51	0.27	0.48
(1,244)	1:29:A:ILE:HD11	1:29:A:ILE:HG23	20	0.51	0.27	0.48
(1,244)	1:29:A:ILE:HD11	1:29:A:ILE:HG21	20	0.51	0.27	0.48

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB3	20	0.5	0.16	0.55
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB2	20	0.5	0.16	0.55
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB1	20	0.5	0.16	0.55
(1,370)	1:154:A:VAL:HG23	1:119:A:VAL:HG23	20	0.5	0.49	0.28
(1,370)	1:154:A:VAL:HG21	1:119:A:VAL:HG22	20	0.5	0.49	0.28
(1,370)	1:154:A:VAL:HG22	1:119:A:VAL:HG23	20	0.5	0.49	0.28
(1,370)	1:154:A:VAL:HG22	1:119:A:VAL:HG22	20	0.5	0.49	0.28
(1,370)	1:154:A:VAL:HG21	1:119:A:VAL:HG23	20	0.5	0.49	0.28
(1,370)	1:154:A:VAL:HG23	1:119:A:VAL:HG21	20	0.5	0.49	0.28
(1,370)	1:154:A:VAL:HG22	1:119:A:VAL:HG21	20	0.5	0.49	0.28
(1,370)	1:154:A:VAL:HG23	1:119:A:VAL:HG22	20	0.5	0.49	0.28
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	20	0.5	0.27	0.32
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG23	20	0.5	0.03	0.49
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG22	20	0.5	0.03	0.49
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG21	20	0.5	0.03	0.49
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	20	0.5	0.08	0.46
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	20	0.5	0.39	0.26
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD12	20	0.49	0.06	0.5
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD13	20	0.49	0.06	0.5
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD11	20	0.49	0.06	0.5
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	20	0.49	0.03	0.49
(1,1256)	1:111:A:VAL:HG21	1:111:A:VAL:HA	20	0.49	0.05	0.51
(1,1256)	1:111:A:VAL:HG23	1:111:A:VAL:HA	20	0.49	0.05	0.51
(1,1256)	1:111:A:VAL:HG22	1:111:A:VAL:HA	20	0.49	0.05	0.51
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	20	0.49	0.19	0.49
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	20	0.49	0.27	0.45
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	20	0.49	0.01	0.49
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD21	20	0.48	0.08	0.48
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD23	20	0.48	0.08	0.48
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD22	20	0.48	0.08	0.48
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG12	20	0.48	0.08	0.49
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG11	20	0.48	0.08	0.49
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG13	20	0.48	0.08	0.49
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	20	0.48	0.27	0.34
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	20	0.48	0.05	0.48
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	20	0.48	0.23	0.49
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	20	0.48	0.27	0.31
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	20	0.48	0.04	0.48
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG22	20	0.47	0.18	0.49
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG21	20	0.47	0.18	0.49
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG23	20	0.47	0.18	0.49
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	20	0.47	0.35	0.35

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	20	0.46	0.02	0.46
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG22	20	0.46	0.03	0.46
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG21	20	0.46	0.03	0.46
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG23	20	0.46	0.03	0.46
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	20	0.46	0.02	0.46
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG21	20	0.46	0.03	0.46
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG22	20	0.46	0.03	0.46
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG23	20	0.46	0.03	0.46
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	20	0.46	0.23	0.62
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	20	0.45	0.11	0.48
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	20	0.45	0.02	0.45
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	20	0.45	0.03	0.45
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG21	20	0.45	0.08	0.46
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG22	20	0.45	0.08	0.46
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG23	20	0.45	0.08	0.46
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	20	0.45	0.17	0.44
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	20	0.45	0.14	0.41
(1,896)	1:170:A:ILE:HG21	1:171:A:ARG:HA	20	0.45	0.11	0.44
(1,896)	1:170:A:ILE:HG23	1:171:A:ARG:HA	20	0.45	0.11	0.44
(1,896)	1:170:A:ILE:HG22	1:171:A:ARG:HA	20	0.45	0.11	0.44
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	20	0.45	0.07	0.46
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	20	0.45	0.09	0.4
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB2	20	0.44	0.07	0.42
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB1	20	0.44	0.07	0.42
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB3	20	0.44	0.07	0.42
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	20	0.44	0.02	0.44
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	20	0.44	0.01	0.44
(1,775)	1:113:A:ALA:HB1	1:152:A:VAL:HG12	20	0.44	0.14	0.4
(1,775)	1:113:A:ALA:HB1	1:152:A:VAL:HG13	20	0.44	0.14	0.4
(1,775)	1:113:A:ALA:HB3	1:152:A:VAL:HG11	20	0.44	0.14	0.4
(1,775)	1:113:A:ALA:HB3	1:152:A:VAL:HG13	20	0.44	0.14	0.4
(1,775)	1:113:A:ALA:HB3	1:152:A:VAL:HG12	20	0.44	0.14	0.4
(1,775)	1:113:A:ALA:HB1	1:152:A:VAL:HG11	20	0.44	0.14	0.4
(1,775)	1:113:A:ALA:HB2	1:152:A:VAL:HG12	20	0.44	0.14	0.4
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	20	0.43	0.02	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	20	0.43	0.0	0.43
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD12	20	0.43	0.08	0.45
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD11	20	0.43	0.08	0.45
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD13	20	0.43	0.08	0.45
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG21	20	0.43	0.08	0.4
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG23	20	0.43	0.08	0.4
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG22	20	0.43	0.08	0.4

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,288)	1:111:A:VAL:HG23	1:174:A:LEU:HD23	20	0.42	0.04	0.42
(1,288)	1:111:A:VAL:HG22	1:174:A:LEU:HD22	20	0.42	0.04	0.42
(1,288)	1:111:A:VAL:HG23	1:174:A:LEU:HD22	20	0.42	0.04	0.42
(1,288)	1:111:A:VAL:HG22	1:174:A:LEU:HD23	20	0.42	0.04	0.42
(1,288)	1:111:A:VAL:HG21	1:174:A:LEU:HD22	20	0.42	0.04	0.42
(1,288)	1:111:A:VAL:HG21	1:174:A:LEU:HD23	20	0.42	0.04	0.42
(1,288)	1:111:A:VAL:HG22	1:174:A:LEU:HD21	20	0.42	0.04	0.42
(1,288)	1:111:A:VAL:HG23	1:174:A:LEU:HD21	20	0.42	0.04	0.42
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	20	0.42	0.1	0.42
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	20	0.42	0.01	0.42
(1,941)	1:153:A:ILE:HG21	1:155:A:LYS:HA	20	0.42	0.08	0.43
(1,941)	1:153:A:ILE:HG22	1:155:A:LYS:HA	20	0.42	0.08	0.43
(1,941)	1:153:A:ILE:HG23	1:155:A:LYS:HA	20	0.42	0.08	0.43
(1,1559)	1:37:A:ILE:HD13	1:37:A:ILE:HG23	20	0.42	0.39	0.32
(1,1559)	1:37:A:ILE:HD12	1:37:A:ILE:HG21	20	0.42	0.39	0.32
(1,1559)	1:37:A:ILE:HD11	1:37:A:ILE:HG21	20	0.42	0.39	0.32
(1,1559)	1:37:A:ILE:HD12	1:37:A:ILE:HG23	20	0.42	0.39	0.32
(1,1559)	1:37:A:ILE:HD11	1:37:A:ILE:HG22	20	0.42	0.39	0.32
(1,1559)	1:37:A:ILE:HD12	1:37:A:ILE:HG22	20	0.42	0.39	0.32
(1,1559)	1:37:A:ILE:HD11	1:37:A:ILE:HG23	20	0.42	0.39	0.32
(1,1559)	1:37:A:ILE:HD13	1:37:A:ILE:HG21	20	0.42	0.39	0.32
(1,1559)	1:37:A:ILE:HD13	1:37:A:ILE:HG22	20	0.42	0.39	0.32
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	20	0.42	0.23	0.32
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	20	0.42	0.03	0.42
(1,745)	1:145:A:THR:HG22	1:146:A:PRO:HD3	20	0.42	0.22	0.36
(1,745)	1:145:A:THR:HG21	1:146:A:PRO:HD3	20	0.42	0.22	0.36
(1,745)	1:145:A:THR:HG23	1:146:A:PRO:HD3	20	0.42	0.22	0.36
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	20	0.42	0.01	0.42
(1,1241)	1:34:A:VAL:HG11	1:37:A:ILE:HB	20	0.42	0.17	0.39
(1,1241)	1:34:A:VAL:HG13	1:37:A:ILE:HB	20	0.42	0.17	0.39
(1,1241)	1:34:A:VAL:HG12	1:37:A:ILE:HB	20	0.42	0.17	0.39
(1,1495)	1:174:A:LEU:HD21	1:118:A:ARG:HG3	20	0.41	0.08	0.42
(1,1495)	1:174:A:LEU:HD23	1:118:A:ARG:HG3	20	0.41	0.08	0.42
(1,1495)	1:174:A:LEU:HD22	1:118:A:ARG:HG3	20	0.41	0.08	0.42
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB1	20	0.41	0.05	0.42
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB3	20	0.41	0.05	0.42
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB2	20	0.41	0.05	0.42
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	20	0.4	0.21	0.57
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	20	0.4	0.24	0.29
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	20	0.4	0.03	0.4
(1,684)	1:25:A:VAL:HG12	1:107:A:THR:HG23	20	0.4	0.3	0.34
(1,684)	1:25:A:VAL:HG12	1:107:A:THR:HG21	20	0.4	0.3	0.34

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,684)	1:25:A:VAL:HG11	1:107:A:THR:HG22	20	0.4	0.3	0.34
(1,684)	1:25:A:VAL:HG11	1:107:A:THR:HG23	20	0.4	0.3	0.34
(1,684)	1:25:A:VAL:HG13	1:107:A:THR:HG23	20	0.4	0.3	0.34
(1,684)	1:25:A:VAL:HG11	1:107:A:THR:HG21	20	0.4	0.3	0.34
(1,684)	1:25:A:VAL:HG13	1:107:A:THR:HG22	20	0.4	0.3	0.34
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	20	0.4	0.02	0.39
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG22	20	0.4	0.1	0.4
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG21	20	0.4	0.1	0.4
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG23	20	0.4	0.1	0.4
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	20	0.39	0.03	0.4
(1,890)	1:45:A:ILE:HG23	1:46:A:LYS:HB2	20	0.39	0.04	0.38
(1,890)	1:45:A:ILE:HG21	1:46:A:LYS:HB2	20	0.39	0.04	0.38
(1,890)	1:45:A:ILE:HG22	1:46:A:LYS:HB2	20	0.39	0.04	0.38
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	20	0.39	0.13	0.48
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB3	20	0.39	0.05	0.38
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB1	20	0.39	0.05	0.38
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB2	20	0.39	0.05	0.38
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG21	20	0.39	0.07	0.4
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG23	20	0.39	0.07	0.4
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG22	20	0.39	0.07	0.4
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG21	20	0.38	0.05	0.37
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG22	20	0.38	0.05	0.37
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG23	20	0.38	0.05	0.37
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	20	0.38	0.25	0.26
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG21	20	0.38	0.17	0.29
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG22	20	0.38	0.17	0.29
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG23	20	0.38	0.17	0.29
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	20	0.38	0.02	0.38
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB1	20	0.38	0.05	0.38
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB2	20	0.38	0.05	0.38
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB3	20	0.38	0.05	0.38
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG23	20	0.38	0.08	0.39
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG21	20	0.38	0.08	0.39
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG22	20	0.38	0.08	0.39
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	20	0.38	0.1	0.33
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	20	0.38	0.14	0.36
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	20	0.37	0.13	0.44
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	20	0.37	0.03	0.38
(1,732)	1:153:A:ILE:HD11	1:153:A:ILE:HG13	20	0.37	0.02	0.37
(1,732)	1:153:A:ILE:HD12	1:153:A:ILE:HG13	20	0.37	0.02	0.37
(1,732)	1:153:A:ILE:HD13	1:153:A:ILE:HG13	20	0.37	0.02	0.37
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	20	0.37	0.02	0.37

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	20	0.36	0.1	0.33
(1,759)	1:79:A:ALA:HB2	1:76:A:PRO:HG3	20	0.36	0.11	0.34
(1,759)	1:79:A:ALA:HB1	1:76:A:PRO:HG3	20	0.36	0.11	0.34
(1,759)	1:79:A:ALA:HB3	1:76:A:PRO:HG3	20	0.36	0.11	0.34
(1,1553)	1:87:A:ILE:HD11	1:29:A:ILE:HG21	20	0.36	0.08	0.33
(1,1553)	1:87:A:ILE:HD13	1:29:A:ILE:HG22	20	0.36	0.08	0.33
(1,1553)	1:87:A:ILE:HD11	1:29:A:ILE:HG23	20	0.36	0.08	0.33
(1,1553)	1:87:A:ILE:HD13	1:29:A:ILE:HG23	20	0.36	0.08	0.33
(1,1553)	1:87:A:ILE:HD12	1:29:A:ILE:HG23	20	0.36	0.08	0.33
(1,1553)	1:87:A:ILE:HD13	1:29:A:ILE:HG21	20	0.36	0.08	0.33
(1,1553)	1:87:A:ILE:HD11	1:29:A:ILE:HG22	20	0.36	0.08	0.33
(1,1553)	1:87:A:ILE:HD12	1:29:A:ILE:HG22	20	0.36	0.08	0.33
(1,1553)	1:87:A:ILE:HD12	1:29:A:ILE:HG21	20	0.36	0.08	0.33
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG12	20	0.36	0.04	0.34
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG13	20	0.36	0.04	0.34
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG11	20	0.36	0.04	0.34
(1,290)	1:91:A:LEU:HD22	1:91:A:LEU:HB3	20	0.35	0.04	0.34
(1,290)	1:91:A:LEU:HD21	1:91:A:LEU:HB3	20	0.35	0.04	0.34
(1,290)	1:91:A:LEU:HD23	1:91:A:LEU:HB3	20	0.35	0.04	0.34
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	20	0.35	0.06	0.34
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	20	0.35	0.05	0.36
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	20	0.35	0.03	0.35
(1,1181)	1:173:A:ILE:HD11	1:119:A:VAL:HA	20	0.35	0.1	0.4
(1,1181)	1:173:A:ILE:HD12	1:119:A:VAL:HA	20	0.35	0.1	0.4
(1,1181)	1:173:A:ILE:HD13	1:119:A:VAL:HA	20	0.35	0.1	0.4
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	20	0.35	0.02	0.34
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	20	0.35	0.07	0.32
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	20	0.34	0.02	0.34
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	20	0.34	0.02	0.35
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	20	0.34	0.03	0.33
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	20	0.33	0.16	0.32
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	20	0.33	0.25	0.26
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	20	0.33	0.01	0.33
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG21	20	0.33	0.08	0.34
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG22	20	0.33	0.08	0.34
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG23	20	0.33	0.08	0.34
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	20	0.33	0.17	0.3
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	20	0.33	0.14	0.27
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	20	0.33	0.01	0.33
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	20	0.33	0.15	0.34
(1,765)	1:157:A:ILE:HD12	1:157:A:ILE:HB	20	0.33	0.03	0.33
(1,765)	1:157:A:ILE:HD13	1:157:A:ILE:HB	20	0.33	0.03	0.33

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,765)	1:157:A:ILE:HD11	1:157:A:ILE:HB	20	0.33	0.03	0.33
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG23	20	0.33	0.07	0.34
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG21	20	0.33	0.07	0.34
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG22	20	0.33	0.07	0.34
(1,671)	1:116:A:ALA:HB2	1:140:A:VAL:HG22	20	0.32	0.08	0.32
(1,671)	1:116:A:ALA:HB3	1:140:A:VAL:HG21	20	0.32	0.08	0.32
(1,671)	1:116:A:ALA:HB2	1:140:A:VAL:HG23	20	0.32	0.08	0.32
(1,671)	1:116:A:ALA:HB3	1:140:A:VAL:HG22	20	0.32	0.08	0.32
(1,671)	1:116:A:ALA:HB1	1:140:A:VAL:HG23	20	0.32	0.08	0.32
(1,671)	1:116:A:ALA:HB1	1:140:A:VAL:HG22	20	0.32	0.08	0.32
(1,671)	1:116:A:ALA:HB2	1:140:A:VAL:HG21	20	0.32	0.08	0.32
(1,671)	1:116:A:ALA:HB3	1:140:A:VAL:HG23	20	0.32	0.08	0.32
(1,1501)	1:59:A:ALA:HB2	1:72:A:VAL:HG22	20	0.32	0.06	0.34
(1,1501)	1:59:A:ALA:HB2	1:72:A:VAL:HG23	20	0.32	0.06	0.34
(1,1501)	1:59:A:ALA:HB3	1:72:A:VAL:HG22	20	0.32	0.06	0.34
(1,1501)	1:59:A:ALA:HB2	1:72:A:VAL:HG21	20	0.32	0.06	0.34
(1,1501)	1:59:A:ALA:HB1	1:72:A:VAL:HG22	20	0.32	0.06	0.34
(1,1501)	1:59:A:ALA:HB1	1:72:A:VAL:HG21	20	0.32	0.06	0.34
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	20	0.32	0.18	0.29
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	20	0.32	0.02	0.32
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG22	20	0.32	0.06	0.32
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG21	20	0.32	0.06	0.32
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG23	20	0.32	0.06	0.32
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	20	0.32	0.12	0.32
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	20	0.31	0.01	0.31
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG11	20	0.31	0.05	0.3
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG13	20	0.31	0.05	0.3
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG12	20	0.31	0.05	0.3
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG22	20	0.31	0.04	0.3
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG21	20	0.31	0.04	0.3
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG23	20	0.31	0.04	0.3
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	20	0.31	0.05	0.31
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	20	0.31	0.21	0.13
(1,999)	1:157:A:ILE:HG21	1:104:A:LYS:HA	20	0.31	0.09	0.3
(1,999)	1:157:A:ILE:HG23	1:104:A:LYS:HA	20	0.31	0.09	0.3
(1,999)	1:157:A:ILE:HG22	1:104:A:LYS:HA	20	0.31	0.09	0.3
(1,1324)	1:135:A:ALA:HB2	1:135:A:ALA:H	20	0.31	0.02	0.3
(1,1324)	1:135:A:ALA:HB3	1:135:A:ALA:H	20	0.31	0.02	0.3
(1,1324)	1:135:A:ALA:HB1	1:135:A:ALA:H	20	0.31	0.02	0.3
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	20	0.31	0.06	0.3
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	20	0.31	0.06	0.3
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	20	0.3	0.07	0.35

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG3	20	0.3	0.07	0.35
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	20	0.3	0.02	0.3
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	20	0.3	0.02	0.3
(1,1247)	1:58:A:ILE:HD11	1:58:A:ILE:HG23	20	0.3	0.08	0.29
(1,1247)	1:58:A:ILE:HD12	1:58:A:ILE:HG23	20	0.3	0.08	0.29
(1,1247)	1:58:A:ILE:HD12	1:58:A:ILE:HG21	20	0.3	0.08	0.29
(1,1247)	1:58:A:ILE:HD13	1:58:A:ILE:HG22	20	0.3	0.08	0.29
(1,1247)	1:58:A:ILE:HD11	1:58:A:ILE:HG22	20	0.3	0.08	0.29
(1,1247)	1:58:A:ILE:HD12	1:58:A:ILE:HG22	20	0.3	0.08	0.29
(1,1247)	1:58:A:ILE:HD13	1:58:A:ILE:HG21	20	0.3	0.08	0.29
(1,1247)	1:58:A:ILE:HD13	1:58:A:ILE:HG23	20	0.3	0.08	0.29
(1,1247)	1:58:A:ILE:HD11	1:58:A:ILE:HG21	20	0.3	0.08	0.29
(1,1407)	1:33:A:ALA:HB3	1:30:A:PRO:HB3	20	0.29	0.05	0.3
(1,1407)	1:33:A:ALA:HB2	1:30:A:PRO:HB3	20	0.29	0.05	0.3
(1,1407)	1:33:A:ALA:HB1	1:30:A:PRO:HB3	20	0.29	0.05	0.3
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	20	0.29	0.01	0.29
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	20	0.28	0.05	0.28
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	20	0.28	0.02	0.28
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG23	20	0.28	0.08	0.27
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG21	20	0.28	0.08	0.27
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG22	20	0.28	0.08	0.27
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	20	0.28	0.04	0.28
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	20	0.28	0.01	0.28
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	20	0.27	0.02	0.27
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG22	20	0.27	0.02	0.28
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG21	20	0.27	0.02	0.28
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG23	20	0.27	0.02	0.28
(1,296)	1:138:A:VAL:HG12	1:138:A:VAL:HG22	20	0.27	0.08	0.29
(1,296)	1:138:A:VAL:HG11	1:138:A:VAL:HG23	20	0.27	0.08	0.29
(1,296)	1:138:A:VAL:HG13	1:138:A:VAL:HG23	20	0.27	0.08	0.29
(1,296)	1:138:A:VAL:HG12	1:138:A:VAL:HG21	20	0.27	0.08	0.29
(1,296)	1:138:A:VAL:HG12	1:138:A:VAL:HG23	20	0.27	0.08	0.29
(1,296)	1:138:A:VAL:HG13	1:138:A:VAL:HG21	20	0.27	0.08	0.29
(1,296)	1:138:A:VAL:HG11	1:138:A:VAL:HG22	20	0.27	0.08	0.29
(1,296)	1:138:A:VAL:HG13	1:138:A:VAL:HG22	20	0.27	0.08	0.29
(1,771)	1:156:A:ILE:HD11	1:163:A:SER:HA	20	0.27	0.04	0.28
(1,771)	1:156:A:ILE:HD12	1:163:A:SER:HA	20	0.27	0.04	0.28
(1,771)	1:156:A:ILE:HD13	1:163:A:SER:HA	20	0.27	0.04	0.28
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	20	0.26	0.05	0.28
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	20	0.26	0.01	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	20	0.26	0.0	0.26
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	20	0.26	0.05	0.28

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	20	0.26	0.1	0.23
(1,855)	1:25:A:VAL:HG22	1:25:A:VAL:HB	20	0.26	0.02	0.26
(1,855)	1:25:A:VAL:HG21	1:25:A:VAL:HB	20	0.26	0.02	0.26
(1,855)	1:25:A:VAL:HG23	1:25:A:VAL:HB	20	0.26	0.02	0.26
(1,741)	1:156:A:ILE:HD11	1:156:A:ILE:HG22	20	0.26	0.04	0.25
(1,741)	1:156:A:ILE:HD12	1:156:A:ILE:HG21	20	0.26	0.04	0.25
(1,741)	1:156:A:ILE:HD11	1:156:A:ILE:HG21	20	0.26	0.04	0.25
(1,741)	1:156:A:ILE:HD12	1:156:A:ILE:HG23	20	0.26	0.04	0.25
(1,741)	1:156:A:ILE:HD13	1:156:A:ILE:HG22	20	0.26	0.04	0.25
(1,741)	1:156:A:ILE:HD11	1:156:A:ILE:HG23	20	0.26	0.04	0.25
(1,741)	1:156:A:ILE:HD12	1:156:A:ILE:HG22	20	0.26	0.04	0.25
(1,741)	1:156:A:ILE:HD13	1:156:A:ILE:HG23	20	0.26	0.04	0.25
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG21	20	0.25	0.09	0.25
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG22	20	0.25	0.09	0.25
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG23	20	0.25	0.09	0.25
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG22	20	0.25	0.02	0.26
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG23	20	0.25	0.02	0.26
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG21	20	0.25	0.02	0.26
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	20	0.25	0.18	0.14
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG23	20	0.25	0.08	0.23
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG21	20	0.25	0.08	0.23
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG22	20	0.25	0.08	0.23
(1,2447)	2:7:B:U:H5	2:7:B:U:H4’	20	0.24	0.05	0.22
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	20	0.24	0.05	0.24
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	20	0.23	0.07	0.22
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	20	0.23	0.04	0.22
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	20	0.23	0.03	0.22
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	20	0.23	0.03	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	20	0.23	0.0	0.23
(1,731)	1:153:A:ILE:HG22	1:153:A:ILE:HD13	20	0.22	0.06	0.22
(1,731)	1:153:A:ILE:HG23	1:153:A:ILE:HD11	20	0.22	0.06	0.22
(1,731)	1:153:A:ILE:HG22	1:153:A:ILE:HD12	20	0.22	0.06	0.22
(1,731)	1:153:A:ILE:HG22	1:153:A:ILE:HD11	20	0.22	0.06	0.22
(1,731)	1:153:A:ILE:HG23	1:153:A:ILE:HD12	20	0.22	0.06	0.22
(1,731)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	20	0.22	0.06	0.22
(1,731)	1:153:A:ILE:HG23	1:153:A:ILE:HD13	20	0.22	0.06	0.22
(1,731)	1:153:A:ILE:HG21	1:153:A:ILE:HD12	20	0.22	0.06	0.22
(1,731)	1:153:A:ILE:HG21	1:153:A:ILE:HD13	20	0.22	0.06	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	20	0.22	0.0	0.22
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	20	0.22	0.08	0.21
(1,910)	1:139:A:VAL:HG23	1:139:A:VAL:HB	20	0.22	0.03	0.23
(1,910)	1:139:A:VAL:HG21	1:139:A:VAL:HB	20	0.22	0.03	0.23

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,910)	1:139:A:VAL:HG22	1:139:A:VAL:HB	20	0.22	0.03	0.23
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	20	0.22	0.02	0.22
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG12	20	0.21	0.02	0.22
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG11	20	0.21	0.02	0.22
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG13	20	0.21	0.02	0.22
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	20	0.21	0.03	0.21
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	20	0.21	0.03	0.2
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	20	0.19	0.02	0.2
(1,899)	1:72:A:VAL:HG12	1:72:A:VAL:HB	20	0.19	0.03	0.19
(1,899)	1:72:A:VAL:HG11	1:72:A:VAL:HB	20	0.19	0.03	0.19
(1,899)	1:72:A:VAL:HG13	1:72:A:VAL:HB	20	0.19	0.03	0.19
(1,934)	1:111:A:VAL:HG12	1:111:A:VAL:HB	20	0.19	0.02	0.19
(1,934)	1:111:A:VAL:HG13	1:111:A:VAL:HB	20	0.19	0.02	0.19
(1,934)	1:111:A:VAL:HG11	1:111:A:VAL:HB	20	0.19	0.02	0.19
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB3	20	0.19	0.02	0.19
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB1	20	0.19	0.02	0.19
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB2	20	0.19	0.02	0.19
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	20	0.19	0.02	0.19
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	20	0.19	0.02	0.19
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	20	0.18	0.02	0.19
(1,734)	1:153:A:ILE:HD11	1:153:A:ILE:HB	20	0.18	0.05	0.19
(1,734)	1:153:A:ILE:HD12	1:153:A:ILE:HB	20	0.18	0.05	0.19
(1,734)	1:153:A:ILE:HD13	1:153:A:ILE:HB	20	0.18	0.05	0.19
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	20	0.18	0.0	0.18
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	20	0.18	0.02	0.18
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	20	0.18	0.0	0.18
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	20	0.18	0.05	0.17
(1,733)	1:153:A:ILE:HD12	1:153:A:ILE:HG12	20	0.17	0.01	0.18
(1,733)	1:153:A:ILE:HD13	1:153:A:ILE:HG12	20	0.17	0.01	0.18
(1,733)	1:153:A:ILE:HD11	1:153:A:ILE:HG12	20	0.17	0.01	0.18
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	20	0.17	0.02	0.18
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	20	0.17	0.03	0.17
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	20	0.17	0.0	0.17
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	20	0.16	0.03	0.15
(1,352)	1:59:A:ALA:HB3	1:60:A:PRO:HD3	20	0.16	0.04	0.15
(1,352)	1:59:A:ALA:HB1	1:60:A:PRO:HD3	20	0.16	0.04	0.15
(1,352)	1:59:A:ALA:HB2	1:60:A:PRO:HD3	20	0.16	0.04	0.15
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	20	0.16	0.04	0.15
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	20	0.16	0.0	0.16
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	20	0.16	0.02	0.16
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	20	0.15	0.02	0.16
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG13	20	0.15	0.03	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG11	20	0.15	0.03	0.16
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG12	20	0.15	0.03	0.16
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG21	20	0.15	0.01	0.15
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG23	20	0.15	0.01	0.15
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG22	20	0.15	0.01	0.15
(1,761)	1:135:A:ALA:HB3	1:135:A:ALA:HA	20	0.15	0.0	0.15
(1,761)	1:135:A:ALA:HB1	1:135:A:ALA:HA	20	0.15	0.0	0.15
(1,761)	1:135:A:ALA:HB2	1:135:A:ALA:HA	20	0.15	0.0	0.15
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	20	0.14	0.01	0.14
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	20	0.13	0.01	0.14
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	20	0.13	0.01	0.14
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	20	0.13	0.01	0.13
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	20	0.1	0.0	0.1
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	19	2.56	0.22	2.55
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD11	19	2.12	1.81	2.75
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD12	19	2.12	1.81	2.75
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD13	19	2.12	1.81	2.75
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	19	1.79	0.42	2.0
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	19	1.38	0.65	1.44
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	19	1.3	0.48	1.47
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD12	19	1.26	0.55	0.89
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD13	19	1.26	0.55	0.89
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD11	19	1.26	0.55	0.89
(1,1539)	1:90:A:LYS:HG3	1:91:A:LEU:HD22	19	1.22	0.76	1.5
(1,1539)	1:90:A:LYS:HG3	1:91:A:LEU:HD21	19	1.22	0.76	1.5
(1,1539)	1:90:A:LYS:HG2	1:91:A:LEU:HD22	19	1.22	0.76	1.5
(1,1539)	1:90:A:LYS:HG2	1:91:A:LEU:HD21	19	1.22	0.76	1.5
(1,1539)	1:90:A:LYS:HG3	1:91:A:LEU:HD23	19	1.22	0.76	1.5
(1,1539)	1:90:A:LYS:HG2	1:91:A:LEU:HD23	19	1.22	0.76	1.5
(1,441)	1:173:A:ILE:HG23	1:118:A:ARG:HB2	19	1.15	0.05	1.16
(1,441)	1:173:A:ILE:HG21	1:118:A:ARG:HB2	19	1.15	0.05	1.16
(1,441)	1:173:A:ILE:HG22	1:118:A:ARG:HB2	19	1.15	0.05	1.16
(1,1301)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	19	1.13	0.63	1.03
(1,1301)	1:105:A:LEU:HD13	1:88:A:TYR:HE1	19	1.13	0.63	1.03
(1,1301)	1:105:A:LEU:HD12	1:88:A:TYR:HE1	19	1.13	0.63	1.03
(1,1071)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	19	1.11	0.63	1.0
(1,1071)	1:105:A:LEU:HD13	1:88:A:TYR:HE1	19	1.11	0.63	1.0
(1,1071)	1:105:A:LEU:HD12	1:88:A:TYR:HE1	19	1.11	0.63	1.0
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD13	19	1.06	0.52	1.35
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD12	19	1.06	0.52	1.35
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD11	19	1.06	0.52	1.35
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	19	1.04	0.15	1.07

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,813)	1:58:A:ILE:HG23	1:69:A:ARG:HB2	19	1.02	0.08	0.99
(1,813)	1:58:A:ILE:HG21	1:69:A:ARG:HB2	19	1.02	0.08	0.99
(1,813)	1:58:A:ILE:HG22	1:69:A:ARG:HB2	19	1.02	0.08	0.99
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	19	1.01	0.29	1.05
(1,228)	1:109:A:ILE:HG22	1:171:A:ARG:HD2	19	0.92	0.76	0.31
(1,228)	1:109:A:ILE:HG23	1:171:A:ARG:HD2	19	0.92	0.76	0.31
(1,228)	1:109:A:ILE:HG21	1:171:A:ARG:HD2	19	0.92	0.76	0.31
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	19	0.88	0.26	0.92
(1,797)	1:48:A:LEU:HD11	1:51:A:PHE:HD1	19	0.84	0.5	1.03
(1,797)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	19	0.84	0.5	1.03
(1,797)	1:48:A:LEU:HD13	1:51:A:PHE:HD1	19	0.84	0.5	1.03
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	19	0.83	0.11	0.82
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	19	0.82	0.03	0.82
(1,248)	1:37:A:ILE:HD12	1:37:A:ILE:HB	19	0.8	0.03	0.81
(1,248)	1:37:A:ILE:HD11	1:37:A:ILE:HB	19	0.8	0.03	0.81
(1,248)	1:37:A:ILE:HD13	1:37:A:ILE:HB	19	0.8	0.03	0.81
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG22	19	0.77	0.08	0.81
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG23	19	0.77	0.08	0.81
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG21	19	0.77	0.08	0.81
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD12	19	0.75	0.1	0.76
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD11	19	0.75	0.1	0.76
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD13	19	0.75	0.1	0.76
(1,1300)	1:105:A:LEU:HD12	1:29:A:ILE:HG22	19	0.75	0.46	0.58
(1,1300)	1:105:A:LEU:HD12	1:29:A:ILE:HG23	19	0.75	0.46	0.58
(1,1300)	1:105:A:LEU:HD11	1:29:A:ILE:HG21	19	0.75	0.46	0.58
(1,1300)	1:105:A:LEU:HD12	1:29:A:ILE:HG21	19	0.75	0.46	0.58
(1,1300)	1:105:A:LEU:HD13	1:29:A:ILE:HG21	19	0.75	0.46	0.58
(1,1300)	1:105:A:LEU:HD11	1:29:A:ILE:HG23	19	0.75	0.46	0.58
(1,1300)	1:105:A:LEU:HD11	1:29:A:ILE:HG22	19	0.75	0.46	0.58
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	19	0.72	0.31	0.65
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG22	19	0.72	0.4	0.86
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG23	19	0.72	0.4	0.86
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG21	19	0.72	0.4	0.86
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD13	19	0.68	0.12	0.68
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD11	19	0.68	0.12	0.68
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD12	19	0.68	0.12	0.68
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD1	19	0.67	0.51	0.58
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD2	19	0.67	0.51	0.58
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD11	19	0.67	0.39	0.52
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD12	19	0.67	0.39	0.52
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD13	19	0.67	0.39	0.52
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD11	19	0.65	0.37	0.97

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD13	19	0.65	0.37	0.97
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD12	19	0.65	0.37	0.97
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	19	0.63	0.02	0.64
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD21	19	0.6	0.21	0.5
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD22	19	0.6	0.21	0.5
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD23	19	0.6	0.21	0.5
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	19	0.59	0.51	0.34
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG23	19	0.59	0.51	0.34
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG21	19	0.59	0.51	0.34
(1,1346)	1:153:A:ILE:HG23	1:110:A:ARG:HD2	19	0.58	0.09	0.59
(1,1346)	1:153:A:ILE:HG21	1:110:A:ARG:HD2	19	0.58	0.09	0.59
(1,1346)	1:153:A:ILE:HG22	1:110:A:ARG:HD2	19	0.58	0.09	0.59
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	19	0.57	0.34	0.44
(1,238)	1:48:A:LEU:HD23	1:83:A:ALA:HB3	19	0.55	0.75	0.31
(1,238)	1:48:A:LEU:HD23	1:83:A:ALA:HB1	19	0.55	0.75	0.31
(1,238)	1:48:A:LEU:HD21	1:83:A:ALA:HB2	19	0.55	0.75	0.31
(1,238)	1:48:A:LEU:HD23	1:83:A:ALA:HB2	19	0.55	0.75	0.31
(1,238)	1:48:A:LEU:HD21	1:83:A:ALA:HB3	19	0.55	0.75	0.31
(1,238)	1:48:A:LEU:HD22	1:83:A:ALA:HB1	19	0.55	0.75	0.31
(1,238)	1:48:A:LEU:HD21	1:83:A:ALA:HB1	19	0.55	0.75	0.31
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	19	0.49	0.16	0.43
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD12	19	0.48	0.13	0.53
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD13	19	0.48	0.13	0.53
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD11	19	0.48	0.13	0.53
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	19	0.47	0.06	0.49
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	19	0.47	0.06	0.46
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	19	0.46	0.31	0.5
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	19	0.45	0.01	0.45
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	19	0.44	0.03	0.43
(1,1284)	1:29:A:ILE:HD13	1:30:A:PRO:HD2	19	0.43	0.16	0.39
(1,1284)	1:29:A:ILE:HD11	1:30:A:PRO:HD2	19	0.43	0.16	0.39
(1,1284)	1:29:A:ILE:HD12	1:30:A:PRO:HD2	19	0.43	0.16	0.39
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	19	0.42	0.0	0.42
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB1	19	0.41	0.1	0.4
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB2	19	0.41	0.1	0.4
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB3	19	0.41	0.1	0.4
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	19	0.38	0.27	0.35
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG22	19	0.37	0.04	0.38
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG23	19	0.37	0.04	0.38
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG21	19	0.37	0.04	0.38
(1,1289)	1:31:A:ALA:HB2	1:67:A:LYS:HA	19	0.35	0.06	0.36
(1,1289)	1:31:A:ALA:HB1	1:67:A:LYS:HA	19	0.35	0.06	0.36

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1289)	1:31:A:ALA:HB3	1:67:A:LYS:HA	19	0.35	0.06	0.36
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	19	0.35	0.04	0.36
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	19	0.33	0.02	0.34
(1,492)	1:103:A:VAL:HG13	1:103:A:VAL:HG23	19	0.32	0.08	0.32
(1,492)	1:103:A:VAL:HG12	1:103:A:VAL:HG22	19	0.32	0.08	0.32
(1,492)	1:103:A:VAL:HG11	1:103:A:VAL:HG23	19	0.32	0.08	0.32
(1,492)	1:103:A:VAL:HG11	1:103:A:VAL:HG22	19	0.32	0.08	0.32
(1,492)	1:103:A:VAL:HG13	1:103:A:VAL:HG21	19	0.32	0.08	0.32
(1,492)	1:103:A:VAL:HG12	1:103:A:VAL:HG21	19	0.32	0.08	0.32
(1,492)	1:103:A:VAL:HG12	1:103:A:VAL:HG23	19	0.32	0.08	0.32
(1,492)	1:103:A:VAL:HG11	1:103:A:VAL:HG21	19	0.32	0.08	0.32
(1,492)	1:103:A:VAL:HG13	1:103:A:VAL:HG22	19	0.32	0.08	0.32
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	19	0.31	0.04	0.31
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD11	19	0.28	0.15	0.21
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD12	19	0.28	0.15	0.21
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD13	19	0.28	0.15	0.21
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	19	0.28	0.02	0.29
(1,243)	1:33:A:ALA:HB3	1:96:A:PHE:HB2	19	0.28	0.06	0.29
(1,243)	1:33:A:ALA:HB2	1:96:A:PHE:HB2	19	0.28	0.06	0.29
(1,243)	1:33:A:ALA:HB1	1:96:A:PHE:HB2	19	0.28	0.06	0.29
(1,1576)	1:29:A:ILE:HD13	1:33:A:ALA:HB2	19	0.28	0.11	0.26
(1,1576)	1:29:A:ILE:HD13	1:33:A:ALA:HB1	19	0.28	0.11	0.26
(1,1576)	1:29:A:ILE:HD11	1:33:A:ALA:HB3	19	0.28	0.11	0.26
(1,1576)	1:29:A:ILE:HD11	1:33:A:ALA:HB2	19	0.28	0.11	0.26
(1,1576)	1:29:A:ILE:HD12	1:33:A:ALA:HB3	19	0.28	0.11	0.26
(1,1576)	1:29:A:ILE:HD12	1:33:A:ALA:HB2	19	0.28	0.11	0.26
(1,1576)	1:29:A:ILE:HD12	1:33:A:ALA:HB1	19	0.28	0.11	0.26
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	19	0.27	0.16	0.21
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	19	0.27	0.01	0.27
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	19	0.26	0.09	0.28
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB1	19	0.25	0.05	0.25
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB2	19	0.25	0.05	0.25
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB3	19	0.25	0.05	0.25
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	19	0.25	0.1	0.24
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	19	0.23	0.03	0.24
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	19	0.22	0.27	0.16
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	19	0.22	0.08	0.25
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD11	19	0.22	0.05	0.22
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD12	19	0.22	0.05	0.22
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD13	19	0.22	0.05	0.22
(1,945)	1:139:A:VAL:HG11	1:141:A:PRO:HD3	19	0.2	0.05	0.19
(1,945)	1:139:A:VAL:HG12	1:141:A:PRO:HD3	19	0.2	0.05	0.19

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,945)	1:139:A:VAL:HG13	1:141:A:PRO:HD3	19	0.2	0.05	0.19
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	19	0.17	0.03	0.16
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	19	0.17	0.02	0.16
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	19	0.17	0.03	0.17
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD3	19	0.16	0.04	0.15
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	19	0.16	0.04	0.15
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	19	0.16	0.04	0.16
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG21	19	0.16	0.04	0.16
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG22	19	0.16	0.04	0.16
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG23	19	0.16	0.04	0.16
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG12	19	0.16	0.02	0.16
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG11	19	0.16	0.02	0.16
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG13	19	0.16	0.02	0.16
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG12	19	0.15	0.05	0.13
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG11	19	0.15	0.05	0.13
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG13	19	0.15	0.05	0.13
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	19	0.14	0.02	0.15
(1,722)	1:174:A:LEU:HD13	1:111:A:VAL:HG13	19	0.14	0.01	0.14
(1,722)	1:174:A:LEU:HD11	1:111:A:VAL:HG11	19	0.14	0.01	0.14
(1,722)	1:174:A:LEU:HD11	1:111:A:VAL:HG13	19	0.14	0.01	0.14
(1,722)	1:174:A:LEU:HD12	1:111:A:VAL:HG13	19	0.14	0.01	0.14
(1,722)	1:174:A:LEU:HD13	1:111:A:VAL:HG12	19	0.14	0.01	0.14
(1,722)	1:174:A:LEU:HD12	1:111:A:VAL:HG12	19	0.14	0.01	0.14
(1,722)	1:174:A:LEU:HD12	1:111:A:VAL:HG11	19	0.14	0.01	0.14
(1,722)	1:174:A:LEU:HD13	1:111:A:VAL:HG11	19	0.14	0.01	0.14
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	19	0.14	0.03	0.13
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	19	0.13	0.02	0.13
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG22	18	2.8	0.4	2.99
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG23	18	2.8	0.4	2.99
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG21	18	2.8	0.4	2.99
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG22	18	2.1	0.18	2.11
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG23	18	2.1	0.18	2.11
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG21	18	2.1	0.18	2.11
(1,1063)	1:103:A:VAL:HG22	1:97:A:PHE:HE1	18	1.65	0.48	1.78
(1,1063)	1:103:A:VAL:HG21	1:97:A:PHE:HE1	18	1.65	0.48	1.78
(1,1063)	1:103:A:VAL:HG23	1:97:A:PHE:HE1	18	1.65	0.48	1.78
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG21	18	1.55	0.69	1.96
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG23	18	1.55	0.69	1.96
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG22	18	1.55	0.69	1.96
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	18	1.45	0.79	1.54
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	18	0.99	0.79	1.25
(1,220)	1:74:A:THR:HG21	1:55:A:SER:HB2	18	0.92	0.66	0.46

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,220)	1:74:A:THR:HG22	1:55:A:SER:HB2	18	0.92	0.66	0.46
(1,220)	1:74:A:THR:HG23	1:55:A:SER:HB2	18	0.92	0.66	0.46
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	18	0.81	0.98	0.21
(1,798)	1:48:A:LEU:HD13	1:48:A:LEU:HB3	18	0.75	0.56	0.88
(1,798)	1:48:A:LEU:HD11	1:48:A:LEU:HB3	18	0.75	0.56	0.88
(1,798)	1:48:A:LEU:HD12	1:48:A:LEU:HB3	18	0.75	0.56	0.88
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG13	18	0.68	0.67	0.58
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG12	18	0.68	0.67	0.58
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG11	18	0.68	0.67	0.58
(1,129)	1:103:A:VAL:HG22	1:103:A:VAL:HA	18	0.65	0.05	0.66
(1,129)	1:103:A:VAL:HG23	1:103:A:VAL:HA	18	0.65	0.05	0.66
(1,129)	1:103:A:VAL:HG21	1:103:A:VAL:HA	18	0.65	0.05	0.66
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD11	18	0.64	0.47	0.67
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD12	18	0.64	0.47	0.67
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD13	18	0.64	0.47	0.67
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	18	0.62	0.11	0.6
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	18	0.62	0.28	0.68
(1,849)	1:34:A:VAL:HG12	1:69:A:ARG:HB3	18	0.57	0.63	0.36
(1,849)	1:34:A:VAL:HG11	1:69:A:ARG:HB3	18	0.57	0.63	0.36
(1,849)	1:34:A:VAL:HG13	1:69:A:ARG:HB3	18	0.57	0.63	0.36
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD11	18	0.52	0.33	0.5
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD12	18	0.52	0.33	0.5
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD13	18	0.52	0.33	0.5
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD13	18	0.52	0.33	0.52
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD11	18	0.52	0.33	0.52
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD12	18	0.52	0.33	0.52
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD22	18	0.5	0.26	0.6
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD21	18	0.5	0.26	0.6
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD23	18	0.5	0.26	0.6
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	18	0.5	0.04	0.48
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD12	18	0.5	0.28	0.46
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD11	18	0.5	0.28	0.46
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD13	18	0.5	0.28	0.46
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG12	18	0.49	0.28	0.4
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG13	18	0.49	0.28	0.4
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG11	18	0.49	0.28	0.4
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	18	0.49	0.14	0.5
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG12	18	0.47	0.08	0.49
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG11	18	0.47	0.08	0.49
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG13	18	0.47	0.08	0.49
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	18	0.46	0.23	0.34
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	18	0.45	0.53	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	18	0.44	0.27	0.23
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	18	0.44	0.23	0.4
(1,1585)	1:177:A:VAL:HG22	1:118:A:ARG:HD3	18	0.43	0.17	0.38
(1,1585)	1:177:A:VAL:HG21	1:118:A:ARG:HD3	18	0.43	0.17	0.38
(1,1585)	1:177:A:VAL:HG23	1:118:A:ARG:HD3	18	0.43	0.17	0.38
(1,856)	1:56:A:ILE:HD12	1:49:A:SER:HA	18	0.42	0.26	0.42
(1,856)	1:56:A:ILE:HD13	1:49:A:SER:HA	18	0.42	0.26	0.42
(1,856)	1:56:A:ILE:HD11	1:49:A:SER:HA	18	0.42	0.26	0.42
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB2	18	0.4	0.1	0.42
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB1	18	0.4	0.1	0.42
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB3	18	0.4	0.1	0.42
(1,692)	1:115:A:ALA:HB1	1:111:A:VAL:HG23	18	0.35	0.18	0.33
(1,692)	1:115:A:ALA:HB2	1:111:A:VAL:HG21	18	0.35	0.18	0.33
(1,692)	1:115:A:ALA:HB2	1:111:A:VAL:HG23	18	0.35	0.18	0.33
(1,692)	1:115:A:ALA:HB1	1:111:A:VAL:HG21	18	0.35	0.18	0.33
(1,692)	1:115:A:ALA:HB2	1:111:A:VAL:HG22	18	0.35	0.18	0.33
(1,692)	1:115:A:ALA:HB1	1:111:A:VAL:HG22	18	0.35	0.18	0.33
(1,692)	1:115:A:ALA:HB3	1:111:A:VAL:HG21	18	0.35	0.18	0.33
(1,692)	1:115:A:ALA:HB3	1:111:A:VAL:HG22	18	0.35	0.18	0.33
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	18	0.33	0.0	0.33
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG21	18	0.3	0.04	0.31
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG22	18	0.3	0.04	0.31
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG23	18	0.3	0.04	0.31
(1,782)	1:105:A:LEU:HD12	1:105:A:LEU:HB3	18	0.3	0.16	0.28
(1,782)	1:105:A:LEU:HD11	1:105:A:LEU:HB3	18	0.3	0.16	0.28
(1,782)	1:105:A:LEU:HD13	1:105:A:LEU:HB3	18	0.3	0.16	0.28
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	18	0.3	0.06	0.29
(1,229)	1:119:A:VAL:HG12	1:116:A:ALA:HA	18	0.29	0.12	0.28
(1,229)	1:119:A:VAL:HG13	1:116:A:ALA:HA	18	0.29	0.12	0.28
(1,229)	1:119:A:VAL:HG11	1:116:A:ALA:HA	18	0.29	0.12	0.28
(1,416)	1:27:A:VAL:HG22	1:27:A:VAL:HG11	18	0.28	0.06	0.29
(1,416)	1:27:A:VAL:HG23	1:27:A:VAL:HG11	18	0.28	0.06	0.29
(1,416)	1:27:A:VAL:HG21	1:27:A:VAL:HG13	18	0.28	0.06	0.29
(1,416)	1:27:A:VAL:HG23	1:27:A:VAL:HG13	18	0.28	0.06	0.29
(1,416)	1:27:A:VAL:HG21	1:27:A:VAL:HG12	18	0.28	0.06	0.29
(1,416)	1:27:A:VAL:HG22	1:27:A:VAL:HG13	18	0.28	0.06	0.29
(1,416)	1:27:A:VAL:HG22	1:27:A:VAL:HG12	18	0.28	0.06	0.29
(1,416)	1:27:A:VAL:HG23	1:27:A:VAL:HG12	18	0.28	0.06	0.29
(1,416)	1:27:A:VAL:HG21	1:27:A:VAL:HG11	18	0.28	0.06	0.29
(1,209)	1:52:A:ALA:HB1	1:54:A:ALA:HB1	18	0.27	0.06	0.26
(1,209)	1:52:A:ALA:HB1	1:54:A:ALA:HB2	18	0.27	0.06	0.26
(1,209)	1:52:A:ALA:HB2	1:54:A:ALA:HB2	18	0.27	0.06	0.26

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,209)	1:52:A:ALA:HB3	1:54:A:ALA:HB1	18	0.27	0.06	0.26
(1,209)	1:52:A:ALA:HB1	1:54:A:ALA:HB3	18	0.27	0.06	0.26
(1,209)	1:52:A:ALA:HB2	1:54:A:ALA:HB3	18	0.27	0.06	0.26
(1,209)	1:52:A:ALA:HB3	1:54:A:ALA:HB2	18	0.27	0.06	0.26
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB2	18	0.26	0.07	0.26
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB3	18	0.26	0.07	0.26
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB1	18	0.26	0.07	0.26
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	18	0.26	0.1	0.23
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD13	18	0.25	0.08	0.25
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD11	18	0.25	0.08	0.25
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD12	18	0.25	0.08	0.25
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG22	18	0.24	0.05	0.24
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG23	18	0.24	0.05	0.24
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG21	18	0.24	0.05	0.24
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	18	0.21	0.04	0.21
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD12	18	0.21	0.06	0.24
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD13	18	0.21	0.06	0.24
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD11	18	0.21	0.06	0.24
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	18	0.2	0.03	0.21
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD12	18	0.2	0.06	0.22
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD13	18	0.2	0.06	0.22
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD11	18	0.2	0.06	0.22
(1,1487)	1:38:A:ILE:HD11	1:58:A:ILE:H	18	0.2	0.06	0.17
(1,1487)	1:38:A:ILE:HD12	1:58:A:ILE:H	18	0.2	0.06	0.17
(1,1487)	1:38:A:ILE:HD13	1:58:A:ILE:H	18	0.2	0.06	0.17
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB2	18	0.2	0.05	0.22
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB3	18	0.2	0.05	0.22
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB1	18	0.2	0.05	0.22
(1,1425)	1:56:A:ILE:HD12	1:56:A:ILE:HG12	18	0.19	0.04	0.2
(1,1425)	1:56:A:ILE:HD13	1:56:A:ILE:HG12	18	0.19	0.04	0.2
(1,1425)	1:56:A:ILE:HD11	1:56:A:ILE:HG12	18	0.19	0.04	0.2
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	18	0.18	0.04	0.2
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	18	0.18	0.09	0.16
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	18	0.16	0.04	0.17
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	18	0.15	0.02	0.16
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	18	0.14	0.03	0.14
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	18	0.14	0.0	0.14
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG22	17	1.47	0.05	1.49
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG21	17	1.47	0.05	1.49
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG23	17	1.47	0.05	1.49
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG11	17	1.34	0.56	1.66
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG12	17	1.34	0.56	1.66

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG13	17	1.34	0.56	1.66
(1,1006)	1:83:A:ALA:HB1	1:73:A:ILE:HB	17	1.08	0.77	0.66
(1,1006)	1:83:A:ALA:HB2	1:73:A:ILE:HB	17	1.08	0.77	0.66
(1,1006)	1:83:A:ALA:HB3	1:73:A:ILE:HB	17	1.08	0.77	0.66
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG23	17	1.05	0.06	1.08
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG22	17	1.05	0.06	1.08
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG21	17	1.05	0.06	1.08
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	17	0.93	0.02	0.93
(1,525)	1:105:A:LEU:HD13	1:97:A:PHE:HD1	17	0.89	0.59	0.65
(1,525)	1:105:A:LEU:HD11	1:97:A:PHE:HD1	17	0.89	0.59	0.65
(1,525)	1:105:A:LEU:HD12	1:97:A:PHE:HD1	17	0.89	0.59	0.65
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	17	0.66	0.15	0.69
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG12	17	0.65	0.2	0.62
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG11	17	0.65	0.2	0.62
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG13	17	0.65	0.2	0.62
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	17	0.58	0.08	0.61
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	17	0.46	0.01	0.46
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG21	17	0.42	0.15	0.5
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG23	17	0.42	0.15	0.5
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG22	17	0.42	0.15	0.5
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB2	17	0.37	0.04	0.36
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB1	17	0.37	0.04	0.36
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB3	17	0.37	0.04	0.36
(1,215)	1:115:A:ALA:HB3	1:177:A:VAL:HG21	17	0.36	0.35	0.22
(1,215)	1:115:A:ALA:HB3	1:177:A:VAL:HG23	17	0.36	0.35	0.22
(1,215)	1:115:A:ALA:HB2	1:177:A:VAL:HG21	17	0.36	0.35	0.22
(1,215)	1:115:A:ALA:HB3	1:177:A:VAL:HG22	17	0.36	0.35	0.22
(1,215)	1:115:A:ALA:HB1	1:177:A:VAL:HG23	17	0.36	0.35	0.22
(1,215)	1:115:A:ALA:HB1	1:177:A:VAL:HG21	17	0.36	0.35	0.22
(1,215)	1:115:A:ALA:HB1	1:177:A:VAL:HG22	17	0.36	0.35	0.22
(1,938)	1:24:A:THR:HG23	1:26:A:HIS:HD2	17	0.33	0.05	0.33
(1,938)	1:24:A:THR:HG21	1:26:A:HIS:HD2	17	0.33	0.05	0.33
(1,938)	1:24:A:THR:HG22	1:26:A:HIS:HD2	17	0.33	0.05	0.33
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	17	0.32	0.1	0.27
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB3	17	0.32	0.11	0.34
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB2	17	0.32	0.11	0.34
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB1	17	0.32	0.11	0.34
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	17	0.23	0.18	0.22
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	17	0.2	0.06	0.17
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	17	0.19	0.06	0.21
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG22	17	0.18	0.03	0.17
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG21	17	0.18	0.03	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG23	17	0.18	0.03	0.17
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	17	0.15	0.03	0.14
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	17	0.13	0.02	0.12
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG21	16	1.61	0.03	1.62
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG22	16	1.61	0.03	1.62
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG23	16	1.61	0.03	1.62
(1,921)	1:105:A:LEU:HD13	1:97:A:PHE:HE1	16	1.51	0.67	1.62
(1,921)	1:105:A:LEU:HD11	1:97:A:PHE:HE1	16	1.51	0.67	1.62
(1,921)	1:105:A:LEU:HD12	1:97:A:PHE:HE1	16	1.51	0.67	1.62
(1,291)	1:152:A:VAL:HG11	1:144:A:GLN:HG2	16	0.98	0.75	0.83
(1,291)	1:152:A:VAL:HG12	1:144:A:GLN:HG2	16	0.98	0.75	0.83
(1,291)	1:152:A:VAL:HG13	1:144:A:GLN:HG2	16	0.98	0.75	0.83
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD11	16	0.94	0.46	1.19
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD13	16	0.94	0.46	1.19
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD12	16	0.94	0.46	1.19
(1,1390)	1:105:A:LEU:HD22	1:29:A:ILE:HG22	16	0.88	0.15	0.9
(1,1390)	1:105:A:LEU:HD23	1:29:A:ILE:HG23	16	0.88	0.15	0.9
(1,1390)	1:105:A:LEU:HD23	1:29:A:ILE:HG21	16	0.88	0.15	0.9
(1,1390)	1:105:A:LEU:HD23	1:29:A:ILE:HG22	16	0.88	0.15	0.9
(1,1390)	1:105:A:LEU:HD21	1:29:A:ILE:HG21	16	0.88	0.15	0.9
(1,1390)	1:105:A:LEU:HD21	1:29:A:ILE:HG23	16	0.88	0.15	0.9
(1,1390)	1:105:A:LEU:HD22	1:29:A:ILE:HG21	16	0.88	0.15	0.9
(1,1390)	1:105:A:LEU:HD21	1:29:A:ILE:HG22	16	0.88	0.15	0.9
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	16	0.82	0.37	1.01
(1,944)	1:138:A:VAL:HG11	1:127:A:VAL:HA	16	0.7	0.5	0.52
(1,944)	1:138:A:VAL:HG13	1:127:A:VAL:HA	16	0.7	0.5	0.52
(1,944)	1:138:A:VAL:HG12	1:127:A:VAL:HA	16	0.7	0.5	0.52
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG12	16	0.68	0.03	0.68
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG13	16	0.68	0.03	0.68
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG11	16	0.68	0.03	0.68
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	16	0.66	0.52	0.32
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG11	16	0.61	0.05	0.61
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG12	16	0.61	0.05	0.61
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG13	16	0.61	0.05	0.61
(1,408)	1:120:A:ILE:HG22	1:117:A:GLY:HA2	16	0.6	0.19	0.55
(1,408)	1:120:A:ILE:HG21	1:117:A:GLY:HA2	16	0.6	0.19	0.55
(1,408)	1:120:A:ILE:HG23	1:117:A:GLY:HA2	16	0.6	0.19	0.55
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	16	0.56	0.51	0.18
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG12	16	0.53	0.44	0.3
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG13	16	0.53	0.44	0.3
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG11	16	0.53	0.44	0.3
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	16	0.49	0.11	0.52

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	16	0.48	0.07	0.5
(1,762)	1:135:A:ALA:HB1	1:162:A:ALA:HB1	16	0.45	0.13	0.48
(1,762)	1:135:A:ALA:HB3	1:162:A:ALA:HB2	16	0.45	0.13	0.48
(1,762)	1:135:A:ALA:HB3	1:162:A:ALA:HB3	16	0.45	0.13	0.48
(1,762)	1:135:A:ALA:HB3	1:162:A:ALA:HB1	16	0.45	0.13	0.48
(1,762)	1:135:A:ALA:HB1	1:162:A:ALA:HB2	16	0.45	0.13	0.48
(1,762)	1:135:A:ALA:HB2	1:162:A:ALA:HB3	16	0.45	0.13	0.48
(1,762)	1:135:A:ALA:HB1	1:162:A:ALA:HB3	16	0.45	0.13	0.48
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	16	0.43	0.2	0.46
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG21	16	0.42	0.17	0.49
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG22	16	0.42	0.17	0.49
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG23	16	0.42	0.17	0.49
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	16	0.37	0.54	0.18
(1,1396)	1:91:A:LEU:HD23	1:30:A:PRO:HD3	16	0.28	0.15	0.25
(1,1396)	1:91:A:LEU:HD22	1:30:A:PRO:HD3	16	0.28	0.15	0.25
(1,1396)	1:91:A:LEU:HD21	1:30:A:PRO:HD3	16	0.28	0.15	0.25
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	16	0.25	0.01	0.25
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD23	16	0.25	0.07	0.26
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD21	16	0.25	0.07	0.26
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD22	16	0.25	0.07	0.26
(1,1544)	1:173:A:ILE:HG21	1:119:A:VAL:HA	16	0.24	0.04	0.24
(1,1544)	1:173:A:ILE:HG22	1:119:A:VAL:HA	16	0.24	0.04	0.24
(1,1544)	1:173:A:ILE:HG23	1:119:A:VAL:HA	16	0.24	0.04	0.24
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	16	0.23	0.08	0.21
(1,998)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	16	0.23	0.06	0.24
(1,998)	1:157:A:ILE:HG22	1:104:A:LYS:HE3	16	0.23	0.06	0.24
(1,998)	1:104:A:LYS:HE2	1:157:A:ILE:HG23	16	0.23	0.06	0.24
(1,998)	1:157:A:ILE:HG23	1:104:A:LYS:HE3	16	0.23	0.06	0.24
(1,998)	1:157:A:ILE:HG21	1:104:A:LYS:HE3	16	0.23	0.06	0.24
(1,998)	1:104:A:LYS:HE2	1:157:A:ILE:HG21	16	0.23	0.06	0.24
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	16	0.22	0.02	0.22
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB3	16	0.22	0.08	0.2
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB2	16	0.22	0.08	0.2
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	16	0.21	0.06	0.2
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	16	0.21	0.06	0.22
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	16	0.2	0.15	0.15
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB2	16	0.19	0.06	0.21
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB1	16	0.19	0.06	0.21
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB3	16	0.19	0.06	0.21
(1,685)	1:116:A:ALA:HB2	1:140:A:VAL:HG12	16	0.19	0.06	0.19
(1,685)	1:116:A:ALA:HB3	1:140:A:VAL:HG13	16	0.19	0.06	0.19
(1,685)	1:116:A:ALA:HB2	1:140:A:VAL:HG11	16	0.19	0.06	0.19

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,685)	1:116:A:ALA:HB3	1:140:A:VAL:HG12	16	0.19	0.06	0.19
(1,685)	1:116:A:ALA:HB1	1:140:A:VAL:HG12	16	0.19	0.06	0.19
(1,685)	1:116:A:ALA:HB1	1:140:A:VAL:HG11	16	0.19	0.06	0.19
(1,685)	1:116:A:ALA:HB2	1:140:A:VAL:HG13	16	0.19	0.06	0.19
(1,685)	1:116:A:ALA:HB3	1:140:A:VAL:HG11	16	0.19	0.06	0.19
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	16	0.18	0.02	0.18
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	16	0.17	0.02	0.18
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	16	0.17	0.04	0.18
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	16	0.14	0.02	0.15
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	16	0.13	0.02	0.13
(1,300)	1:74:A:THR:H	1:55:A:SER:HB2	15	1.07	0.59	1.5
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD13	15	1.07	0.08	1.06
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD12	15	1.07	0.08	1.06
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD11	15	1.07	0.08	1.06
(1,802)	1:50:A:ARG:HD2	1:50:A:ARG:HB2	15	0.95	0.59	1.24
(1,1105)	1:56:A:ILE:H	1:56:A:ILE:HG12	15	0.78	0.16	0.72
(1,1821)	1:165:A:MET:H	1:164:A:GLN:HG2	15	0.67	0.5	0.39
(1,2059)	1:179:A:GLN:H	1:179:A:GLN:HG2	15	0.65	0.08	0.68
(1,1601)	1:134:A:THR:HG21	1:165:A:MET:HG2	15	0.6	0.26	0.67
(1,1601)	1:134:A:THR:HG22	1:165:A:MET:HG2	15	0.6	0.26	0.67
(1,1601)	1:134:A:THR:HG23	1:165:A:MET:HG2	15	0.6	0.26	0.67
(1,307)	1:91:A:LEU:HG	1:105:A:LEU:HG	15	0.49	0.37	0.52
(1,774)	1:113:A:ALA:HB3	1:150:A:GLU:HG3	15	0.44	0.1	0.44
(1,774)	1:113:A:ALA:HB2	1:150:A:GLU:HG3	15	0.44	0.1	0.44
(1,774)	1:150:A:GLU:HG2	1:113:A:ALA:HB1	15	0.44	0.1	0.44
(1,774)	1:150:A:GLU:HG2	1:113:A:ALA:HB2	15	0.44	0.1	0.44
(1,774)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	15	0.44	0.1	0.44
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD13	15	0.37	0.1	0.41
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD12	15	0.37	0.1	0.41
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD11	15	0.37	0.1	0.41
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG21	15	0.36	0.21	0.24
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG22	15	0.36	0.21	0.24
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG23	15	0.36	0.21	0.24
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	15	0.35	0.45	0.18
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB1	15	0.35	0.45	0.18
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB2	15	0.35	0.45	0.18
(1,723)	1:14:A:PHE:HA	1:14:A:PHE:HB3	15	0.35	0.0	0.35
(1,622)	1:148:A:GLU:HG3	1:149:A:ASN:HA	15	0.33	0.47	0.13
(1,804)	1:50:A:ARG:HD2	1:50:A:ARG:HG3	15	0.32	0.25	0.17
(1,1362)	1:170:A:ILE:HG12	1:170:A:ILE:HB	15	0.31	0.02	0.32
(1,360)	1:71:A:VAL:HA	1:71:A:VAL:HB	15	0.3	0.06	0.31
(1,74)	1:144:A:GLN:HA	1:144:A:GLN:HG2	15	0.29	0.06	0.27

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,516)	1:122:A:LYS:H	1:122:A:LYS:HD2	15	0.29	0.05	0.3
(1,520)	1:127:A:VAL:HG13	1:137:A:GLU:HA	15	0.28	0.19	0.25
(1,520)	1:127:A:VAL:HG12	1:137:A:GLU:HA	15	0.28	0.19	0.25
(1,520)	1:127:A:VAL:HG11	1:137:A:GLU:HA	15	0.28	0.19	0.25
(1,820)	1:119:A:VAL:HG12	1:119:A:VAL:HG22	15	0.27	0.11	0.28
(1,820)	1:119:A:VAL:HG13	1:119:A:VAL:HG21	15	0.27	0.11	0.28
(1,820)	1:119:A:VAL:HG11	1:119:A:VAL:HG22	15	0.27	0.11	0.28
(1,820)	1:119:A:VAL:HG11	1:119:A:VAL:HG21	15	0.27	0.11	0.28
(1,820)	1:119:A:VAL:HG12	1:119:A:VAL:HG23	15	0.27	0.11	0.28
(1,820)	1:119:A:VAL:HG13	1:119:A:VAL:HG22	15	0.27	0.11	0.28
(1,820)	1:119:A:VAL:HG12	1:119:A:VAL:HG21	15	0.27	0.11	0.28
(1,1518)	1:22:A:GLN:HB3	1:22:A:GLN:HG3	15	0.25	0.06	0.28
(1,555)	1:95:A:ASN:HA	1:95:A:ASN:HB3	15	0.24	0.0	0.24
(1,63)	1:181:A:HIS:HA	1:181:A:HIS:HB3	15	0.22	0.0	0.22
(1,1920)	1:55:A:SER:H	1:56:A:ILE:H	15	0.21	0.09	0.18
(1,1371)	1:68:A:VAL:HG21	1:69:A:ARG:H	15	0.2	0.06	0.19
(1,1371)	1:68:A:VAL:HG23	1:69:A:ARG:H	15	0.2	0.06	0.19
(1,1371)	1:68:A:VAL:HG22	1:69:A:ARG:H	15	0.2	0.06	0.19
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG23	15	0.19	0.06	0.17
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG22	15	0.19	0.06	0.17
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG21	15	0.19	0.06	0.17
(1,1157)	1:172:A:ASP:HA	1:172:A:ASP:HB3	15	0.18	0.0	0.18
(1,2341)	1:118:A:ARG:HB2	2:2:B:C:H5	15	0.18	0.05	0.16
(1,2341)	1:118:A:ARG:HB3	2:2:B:C:H5	15	0.18	0.05	0.16
(1,2331)	2:3:B:G:H8	2:3:B:G:H2'	15	0.17	0.04	0.17
(1,489)	1:100:A:LYS:HG2	1:100:A:LYS:HB3	15	0.15	0.02	0.16
(1,257)	1:97:A:PHE:H	1:97:A:PHE:HB2	15	0.15	0.03	0.17
(1,808)	1:71:A:VAL:HG23	1:71:A:VAL:HB	15	0.15	0.04	0.16
(1,808)	1:71:A:VAL:HG21	1:71:A:VAL:HB	15	0.15	0.04	0.16
(1,808)	1:71:A:VAL:HG22	1:71:A:VAL:HB	15	0.15	0.04	0.16
(1,1098)	1:150:A:GLU:H	1:149:A:ASN:HA	15	0.14	0.02	0.15
(1,1645)	1:156:A:ILE:H	1:156:A:ILE:HG12	15	0.13	0.03	0.12
(1,831)	1:28:A:PHE:HB2	1:106:A:GLU:HB2	14	1.15	0.45	1.19
(1,1557)	1:90:A:LYS:HB2	1:90:A:LYS:HD3	14	1.11	0.31	1.31
(1,1619)	1:157:A:ILE:HG23	1:104:A:LYS:HD2	14	1.02	0.58	1.14
(1,1619)	1:157:A:ILE:HG22	1:104:A:LYS:HD2	14	1.02	0.58	1.14
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD11	14	0.89	0.11	0.9
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD12	14	0.89	0.11	0.9
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD13	14	0.89	0.11	0.9
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG21	14	0.56	0.83	0.24
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG23	14	0.56	0.83	0.24
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG22	14	0.56	0.83	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD13	14	0.54	0.22	0.52
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD11	14	0.54	0.22	0.52
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD12	14	0.54	0.22	0.52
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG21	14	0.46	0.22	0.38
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG23	14	0.46	0.22	0.38
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG22	14	0.46	0.22	0.38
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG22	14	0.45	0.05	0.44
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG23	14	0.45	0.05	0.44
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG21	14	0.45	0.05	0.44
(1,2123)	1:179:A:GLN:HE21	1:179:A:GLN:HG2	14	0.45	0.01	0.45
(1,1603)	1:134:A:THR:HG22	1:165:A:MET:HG3	14	0.43	0.18	0.45
(1,1603)	1:134:A:THR:HG21	1:165:A:MET:HG3	14	0.43	0.18	0.45
(1,1603)	1:134:A:THR:HG23	1:165:A:MET:HG3	14	0.43	0.18	0.45
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD11	14	0.36	0.17	0.34
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD13	14	0.36	0.17	0.34
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD12	14	0.36	0.17	0.34
(1,1016)	1:126:A:THR:HG21	1:173:A:ILE:HD13	14	0.35	0.16	0.32
(1,1016)	1:126:A:THR:HG23	1:173:A:ILE:HD12	14	0.35	0.16	0.32
(1,1016)	1:126:A:THR:HG22	1:173:A:ILE:HD13	14	0.35	0.16	0.32
(1,1016)	1:126:A:THR:HG23	1:173:A:ILE:HD11	14	0.35	0.16	0.32
(1,1016)	1:126:A:THR:HG21	1:173:A:ILE:HD12	14	0.35	0.16	0.32
(1,1016)	1:126:A:THR:HG21	1:173:A:ILE:HD11	14	0.35	0.16	0.32
(1,1016)	1:126:A:THR:HG22	1:173:A:ILE:HD12	14	0.35	0.16	0.32
(1,784)	1:34:A:VAL:HG11	1:58:A:ILE:HD12	14	0.34	0.24	0.23
(1,784)	1:34:A:VAL:HG13	1:58:A:ILE:HD12	14	0.34	0.24	0.23
(1,784)	1:34:A:VAL:HG13	1:58:A:ILE:HD13	14	0.34	0.24	0.23
(1,784)	1:34:A:VAL:HG11	1:58:A:ILE:HD13	14	0.34	0.24	0.23
(1,784)	1:34:A:VAL:HG12	1:58:A:ILE:HD13	14	0.34	0.24	0.23
(1,784)	1:34:A:VAL:HG11	1:58:A:ILE:HD11	14	0.34	0.24	0.23
(1,784)	1:34:A:VAL:HG12	1:58:A:ILE:HD11	14	0.34	0.24	0.23
(1,132)	1:32:A:GLN:HA	1:32:A:GLN:HG2	14	0.24	0.08	0.26
(1,571)	1:86:A:ARG:HA	1:86:A:ARG:HB2	14	0.22	0.09	0.18
(1,1729)	1:95:A:ASN:H	1:94:A:GLU:HA	14	0.18	0.02	0.18
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD11	14	0.18	0.04	0.17
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD12	14	0.18	0.04	0.17
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD13	14	0.18	0.04	0.17
(1,852)	1:174:A:LEU:HD13	1:174:A:LEU:HD23	14	0.16	0.03	0.16
(1,852)	1:174:A:LEU:HD12	1:174:A:LEU:HD23	14	0.16	0.03	0.16
(1,852)	1:174:A:LEU:HD11	1:174:A:LEU:HD22	14	0.16	0.03	0.16
(1,852)	1:174:A:LEU:HD12	1:174:A:LEU:HD22	14	0.16	0.03	0.16
(1,852)	1:174:A:LEU:HD11	1:174:A:LEU:HD23	14	0.16	0.03	0.16
(1,852)	1:174:A:LEU:HD13	1:174:A:LEU:HD22	14	0.16	0.03	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,852)	1:174:A:LEU:HD12	1:174:A:LEU:HD21	14	0.16	0.03	0.16
(1,852)	1:174:A:LEU:HD13	1:174:A:LEU:HD21	14	0.16	0.03	0.16
(1,2116)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	14	0.15	0.02	0.16
(1,2288)	1:91:A:LEU:H	1:90:A:LYS:HA	14	0.11	0.01	0.11
(1,1581)	1:48:A:LEU:HG	1:56:A:ILE:HD13	13	1.56	0.75	2.02
(1,1581)	1:48:A:LEU:HG	1:56:A:ILE:HD11	13	1.56	0.75	2.02
(1,1581)	1:48:A:LEU:HG	1:56:A:ILE:HD12	13	1.56	0.75	2.02
(1,2274)	1:22:A:GLN:HE22	1:21:A:GLU:HB2	13	1.47	0.58	1.72
(1,677)	1:94:A:GLU:HG2	1:90:A:LYS:HG2	13	1.11	0.48	0.94
(1,1664)	1:101:A:GLU:H	1:100:A:LYS:HG2	13	1.05	0.78	1.12
(1,874)	1:104:A:LYS:HE2	1:104:A:LYS:HB3	13	1.01	0.47	1.03
(1,966)	1:91:A:LEU:HG	1:97:A:PHE:HE1	13	0.94	0.43	1.2
(1,619)	1:78:A:GLU:HG2	1:79:A:ALA:HB2	13	0.88	0.45	1.06
(1,619)	1:78:A:GLU:HG2	1:79:A:ALA:HB1	13	0.88	0.45	1.06
(1,619)	1:78:A:GLU:HG2	1:79:A:ALA:HB3	13	0.88	0.45	1.06
(1,433)	1:90:A:LYS:HA	1:90:A:LYS:HD3	13	0.79	0.31	0.94
(1,192)	1:50:A:ARG:HG2	1:50:A:ARG:HA	13	0.78	0.1	0.76
(1,673)	1:104:A:LYS:HG2	1:104:A:LYS:HE2	13	0.7	0.2	0.81
(1,2018)	1:18:A:MET:H	1:18:A:MET:HB3	13	0.63	0.02	0.63
(1,268)	1:50:A:ARG:HB2	1:50:A:ARG:HG3	13	0.58	0.02	0.58
(1,294)	1:130:A:LEU:HD22	1:169:A:LYS:HB2	13	0.52	0.18	0.5
(1,294)	1:130:A:LEU:HD21	1:169:A:LYS:HB2	13	0.52	0.18	0.5
(1,294)	1:130:A:LEU:HD23	1:169:A:LYS:HB2	13	0.52	0.18	0.5
(1,1366)	1:48:A:LEU:HD22	1:86:A:ARG:HD3	13	0.48	0.21	0.44
(1,1366)	1:48:A:LEU:HD22	1:86:A:ARG:HD2	13	0.48	0.21	0.44
(1,1366)	1:48:A:LEU:HD23	1:86:A:ARG:HD2	13	0.48	0.21	0.44
(1,1366)	1:48:A:LEU:HD23	1:86:A:ARG:HD3	13	0.48	0.21	0.44
(1,1593)	1:58:A:ILE:HD11	1:71:A:VAL:HA	13	0.48	0.34	0.45
(1,1593)	1:58:A:ILE:HD12	1:71:A:VAL:HA	13	0.48	0.34	0.45
(1,1593)	1:58:A:ILE:HD13	1:71:A:VAL:HA	13	0.48	0.34	0.45
(1,409)	1:146:A:PRO:HB2	1:150:A:GLU:HA	13	0.44	0.16	0.45
(1,954)	1:119:A:VAL:HB	1:120:A:ILE:HD12	13	0.43	0.25	0.41
(1,954)	1:119:A:VAL:HB	1:120:A:ILE:HD13	13	0.43	0.25	0.41
(1,954)	1:119:A:VAL:HB	1:120:A:ILE:HD11	13	0.43	0.25	0.41
(1,1606)	1:18:A:MET:HG2	1:18:A:MET:HB2	13	0.36	0.0	0.36
(1,1273)	1:96:A:PHE:HZ	1:94:A:GLU:HG2	13	0.33	0.14	0.38
(1,1858)	1:139:A:VAL:H	1:138:A:VAL:HG13	13	0.31	0.17	0.22
(1,1858)	1:139:A:VAL:H	1:138:A:VAL:HG11	13	0.31	0.17	0.22
(1,1858)	1:139:A:VAL:H	1:138:A:VAL:HG12	13	0.31	0.17	0.22
(1,708)	1:83:A:ALA:HA	1:48:A:LEU:HD12	13	0.31	0.12	0.33
(1,708)	1:83:A:ALA:HA	1:48:A:LEU:HD13	13	0.31	0.12	0.33
(1,708)	1:83:A:ALA:HA	1:48:A:LEU:HD11	13	0.31	0.12	0.33

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,995)	1:18:A:MET:HA	1:18:A:MET:HB2	13	0.3	0.01	0.31
(1,742)	1:156:A:ILE:HD11	1:166:A:ALA:HB1	13	0.29	0.09	0.27
(1,742)	1:156:A:ILE:HD13	1:166:A:ALA:HB3	13	0.29	0.09	0.27
(1,742)	1:156:A:ILE:HD11	1:166:A:ALA:HB2	13	0.29	0.09	0.27
(1,742)	1:156:A:ILE:HD12	1:166:A:ALA:HB3	13	0.29	0.09	0.27
(1,742)	1:156:A:ILE:HD12	1:166:A:ALA:HB2	13	0.29	0.09	0.27
(1,742)	1:156:A:ILE:HD11	1:166:A:ALA:HB3	13	0.29	0.09	0.27
(1,947)	1:63:A:THR:HB	1:62:A:GLU:HG2	13	0.27	0.08	0.32
(1,947)	1:63:A:THR:HB	1:62:A:GLU:HG3	13	0.27	0.08	0.32
(1,2023)	1:70:A:MET:H	1:70:A:MET:HB2	13	0.26	0.08	0.24
(1,1428)	1:89:A:GLY:H	1:86:A:ARG:HA	13	0.23	0.06	0.23
(1,1993)	1:71:A:VAL:H	1:28:A:PHE:HA	13	0.23	0.08	0.19
(1,125)	1:112:A:PRO:HD3	1:174:A:LEU:HD22	13	0.23	0.06	0.21
(1,125)	1:112:A:PRO:HD3	1:174:A:LEU:HD21	13	0.23	0.06	0.21
(1,125)	1:112:A:PRO:HD3	1:174:A:LEU:HD23	13	0.23	0.06	0.21
(1,174)	1:164:A:GLN:HG2	1:164:A:GLN:HA	13	0.23	0.11	0.2
(1,1665)	1:101:A:GLU:H	1:101:A:GLU:HA	13	0.23	0.01	0.23
(1,1628)	1:74:A:THR:H	1:56:A:ILE:HA	13	0.22	0.07	0.23
(1,378)	1:57:A:LYS:H	1:57:A:LYS:HG3	13	0.17	0.04	0.17
(1,1282)	1:110:A:ARG:HA	1:153:A:ILE:HG23	13	0.16	0.04	0.16
(1,1282)	1:110:A:ARG:HA	1:153:A:ILE:HG21	13	0.16	0.04	0.16
(1,1282)	1:110:A:ARG:HA	1:153:A:ILE:HG22	13	0.16	0.04	0.16
(1,222)	1:38:A:ILE:HG21	1:38:A:ILE:HD13	13	0.16	0.03	0.16
(1,222)	1:38:A:ILE:HG22	1:38:A:ILE:HD13	13	0.16	0.03	0.16
(1,222)	1:38:A:ILE:HG22	1:38:A:ILE:HD11	13	0.16	0.03	0.16
(1,222)	1:38:A:ILE:HG21	1:38:A:ILE:HD11	13	0.16	0.03	0.16
(1,222)	1:38:A:ILE:HG23	1:38:A:ILE:HD12	13	0.16	0.03	0.16
(1,222)	1:38:A:ILE:HG23	1:38:A:ILE:HD11	13	0.16	0.03	0.16
(1,222)	1:38:A:ILE:HG23	1:38:A:ILE:HD13	13	0.16	0.03	0.16
(1,1159)	1:143:A:ASP:HA	1:143:A:ASP:HB3	13	0.16	0.01	0.16
(1,1896)	1:154:A:VAL:H	1:109:A:ILE:HG12	13	0.15	0.02	0.15
(1,23)	1:165:A:MET:H	1:162:A:ALA:HA	13	0.15	0.05	0.15
(1,2406)	1:179:A:GLN:H	1:180:A:GLN:H	13	0.14	0.04	0.13
(1,1293)	1:57:A:LYS:HB3	1:72:A:VAL:HB	13	0.14	0.02	0.13
(3,1)	1:140:A:VAL:O	2:5:B:6MZ:N6	13	0.13	0.01	0.13
(1,207)	1:178:A:LYS:HG3	1:178:A:LYS:HA	13	0.12	0.01	0.13
(1,1370)	1:68:A:VAL:HG22	1:28:A:PHE:HB3	12	1.26	0.16	1.19
(1,1370)	1:68:A:VAL:HG23	1:28:A:PHE:HB3	12	1.26	0.16	1.19
(1,1370)	1:68:A:VAL:HG21	1:28:A:PHE:HB3	12	1.26	0.16	1.19
(1,1816)	1:68:A:VAL:H	1:66:A:SER:HB3	12	1.26	0.47	1.44
(1,1742)	1:98:A:GLY:H	1:99:A:PRO:HD2	12	1.07	0.27	1.1
(1,437)	1:130:A:LEU:HA	1:130:A:LEU:HD21	12	1.06	0.65	1.58

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,437)	1:130:A:LEU:HA	1:130:A:LEU:HD23	12	1.06	0.65	1.58
(1,437)	1:130:A:LEU:HA	1:130:A:LEU:HD22	12	1.06	0.65	1.58
(1,925)	1:107:A:THR:HA	1:27:A:VAL:HG13	12	0.78	0.3	0.8
(1,925)	1:107:A:THR:HA	1:27:A:VAL:HG11	12	0.78	0.3	0.8
(1,925)	1:107:A:THR:HA	1:27:A:VAL:HG12	12	0.78	0.3	0.8
(1,891)	1:45:A:ILE:HG21	1:45:A:ILE:HG13	12	0.78	0.33	0.9
(1,891)	1:45:A:ILE:HG23	1:45:A:ILE:HG13	12	0.78	0.33	0.9
(1,891)	1:45:A:ILE:HG22	1:45:A:ILE:HG13	12	0.78	0.33	0.9
(1,1678)	1:24:A:THR:H	1:23:A:GLU:HB2	12	0.75	0.15	0.72
(1,266)	1:47:A:GLN:HG3	1:47:A:GLN:HB2	12	0.72	0.01	0.72
(1,676)	1:90:A:LYS:HG2	1:90:A:LYS:HE2	12	0.68	0.25	0.8
(1,1436)	1:130:A:LEU:H	1:130:A:LEU:HD21	12	0.66	0.36	0.66
(1,1436)	1:130:A:LEU:H	1:130:A:LEU:HD23	12	0.66	0.36	0.66
(1,1436)	1:130:A:LEU:H	1:130:A:LEU:HD22	12	0.66	0.36	0.66
(1,368)	1:130:A:LEU:HD11	1:130:A:LEU:HB3	12	0.65	0.41	0.94
(1,368)	1:130:A:LEU:HD12	1:130:A:LEU:HB3	12	0.65	0.41	0.94
(1,368)	1:130:A:LEU:HD13	1:130:A:LEU:HB3	12	0.65	0.41	0.94
(1,1377)	1:73:A:ILE:HG22	1:73:A:ILE:HA	12	0.62	0.2	0.7
(1,1377)	1:73:A:ILE:HG23	1:73:A:ILE:HA	12	0.62	0.2	0.7
(1,1377)	1:73:A:ILE:HG21	1:73:A:ILE:HA	12	0.62	0.2	0.7
(1,922)	1:88:A:TYR:HB2	1:103:A:VAL:HG23	12	0.61	0.64	0.36
(1,922)	1:88:A:TYR:HB2	1:103:A:VAL:HG22	12	0.61	0.64	0.36
(1,922)	1:88:A:TYR:HB2	1:103:A:VAL:HG21	12	0.61	0.64	0.36
(1,901)	1:90:A:LYS:HE2	1:94:A:GLU:HG3	12	0.58	0.45	0.36
(1,1530)	1:174:A:LEU:HD21	1:177:A:VAL:HG12	12	0.56	0.32	0.41
(1,1530)	1:174:A:LEU:HD21	1:177:A:VAL:HG11	12	0.56	0.32	0.41
(1,1530)	1:174:A:LEU:HD23	1:177:A:VAL:HG12	12	0.56	0.32	0.41
(1,1530)	1:174:A:LEU:HD21	1:177:A:VAL:HG13	12	0.56	0.32	0.41
(1,1530)	1:174:A:LEU:HD23	1:177:A:VAL:HG11	12	0.56	0.32	0.41
(1,1530)	1:174:A:LEU:HD23	1:177:A:VAL:HG13	12	0.56	0.32	0.41
(1,1981)	1:176:A:GLN:HE22	1:176:A:GLN:HB2	12	0.43	0.15	0.52
(1,1981)	1:176:A:GLN:HE22	1:176:A:GLN:HB3	12	0.43	0.15	0.52
(1,971)	1:52:A:ALA:HB1	1:56:A:ILE:HD13	12	0.42	0.29	0.33
(1,971)	1:52:A:ALA:HB2	1:56:A:ILE:HD12	12	0.42	0.29	0.33
(1,971)	1:52:A:ALA:HB3	1:56:A:ILE:HD13	12	0.42	0.29	0.33
(1,971)	1:52:A:ALA:HB2	1:56:A:ILE:HD11	12	0.42	0.29	0.33
(1,971)	1:52:A:ALA:HB1	1:56:A:ILE:HD12	12	0.42	0.29	0.33
(1,971)	1:52:A:ALA:HB3	1:56:A:ILE:HD11	12	0.42	0.29	0.33
(1,971)	1:52:A:ALA:HB2	1:56:A:ILE:HD13	12	0.42	0.29	0.33
(1,971)	1:52:A:ALA:HB3	1:56:A:ILE:HD12	12	0.42	0.29	0.33
(1,756)	1:92:A:LYS:HG2	1:103:A:VAL:HG23	12	0.41	0.15	0.4
(1,756)	1:92:A:LYS:HG2	1:103:A:VAL:HG21	12	0.41	0.15	0.4

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,756)	1:92:A:LYS:HG2	1:103:A:VAL:HG22	12	0.41	0.15	0.4
(1,982)	1:48:A:LEU:HD21	1:48:A:LEU:HB3	12	0.41	0.38	0.26
(1,982)	1:48:A:LEU:HD23	1:48:A:LEU:HB3	12	0.41	0.38	0.26
(1,982)	1:48:A:LEU:HD22	1:48:A:LEU:HB3	12	0.41	0.38	0.26
(1,748)	1:62:A:GLU:HG2	1:63:A:THR:HG22	12	0.4	0.15	0.42
(1,748)	1:62:A:GLU:HG2	1:63:A:THR:HG23	12	0.4	0.15	0.42
(1,748)	1:62:A:GLU:HG2	1:63:A:THR:HG21	12	0.4	0.15	0.42
(1,424)	1:57:A:LYS:HA	1:57:A:LYS:HD2	12	0.4	0.05	0.38
(1,876)	1:109:A:ILE:HG23	1:107:A:THR:HG23	12	0.37	0.1	0.36
(1,876)	1:109:A:ILE:HG22	1:107:A:THR:HG23	12	0.37	0.1	0.36
(1,876)	1:109:A:ILE:HG21	1:107:A:THR:HG23	12	0.37	0.1	0.36
(1,876)	1:109:A:ILE:HG21	1:107:A:THR:HG21	12	0.37	0.1	0.36
(1,876)	1:109:A:ILE:HG22	1:107:A:THR:HG22	12	0.37	0.1	0.36
(1,876)	1:109:A:ILE:HG23	1:107:A:THR:HG21	12	0.37	0.1	0.36
(1,876)	1:109:A:ILE:HG23	1:107:A:THR:HG22	12	0.37	0.1	0.36
(1,876)	1:109:A:ILE:HG22	1:107:A:THR:HG21	12	0.37	0.1	0.36
(1,286)	1:45:A:ILE:HG13	1:56:A:ILE:HG22	12	0.37	0.11	0.4
(1,286)	1:45:A:ILE:HG13	1:56:A:ILE:HG21	12	0.37	0.11	0.4
(1,286)	1:45:A:ILE:HG13	1:56:A:ILE:HG23	12	0.37	0.11	0.4
(1,990)	1:110:A:ARG:HD3	1:153:A:ILE:HD12	12	0.37	0.1	0.35
(1,990)	1:110:A:ARG:HD3	1:153:A:ILE:HD13	12	0.37	0.1	0.35
(1,990)	1:110:A:ARG:HD3	1:153:A:ILE:HD11	12	0.37	0.1	0.35
(1,546)	1:55:A:SER:HA	1:55:A:SER:HB2	12	0.32	0.09	0.37
(1,1397)	1:91:A:LEU:HA	1:91:A:LEU:HD22	12	0.29	0.2	0.26
(1,1397)	1:91:A:LEU:HA	1:91:A:LEU:HD21	12	0.29	0.2	0.26
(1,1397)	1:91:A:LEU:HA	1:91:A:LEU:HD23	12	0.29	0.2	0.26
(1,1873)	1:113:A:ALA:H	1:151:A:GLN:H	12	0.29	0.1	0.33
(1,448)	1:158:A:GLY:HA3	1:156:A:ILE:HG21	12	0.29	0.11	0.31
(1,448)	1:158:A:GLY:HA3	1:156:A:ILE:HG23	12	0.29	0.11	0.31
(1,448)	1:158:A:GLY:HA3	1:156:A:ILE:HG22	12	0.29	0.11	0.31
(1,2120)	1:128:A:ASN:HD22	1:128:A:ASN:HB2	12	0.27	0.0	0.27
(1,1917)	1:29:A:ILE:H	1:28:A:PHE:HB3	12	0.27	0.03	0.28
(1,1178)	1:30:A:PRO:HD2	1:29:A:ILE:HA	12	0.25	0.15	0.2
(1,812)	1:174:A:LEU:HD13	1:111:A:VAL:HG22	12	0.22	0.08	0.2
(1,812)	1:174:A:LEU:HD11	1:111:A:VAL:HG22	12	0.22	0.08	0.2
(1,812)	1:174:A:LEU:HD12	1:111:A:VAL:HG23	12	0.22	0.08	0.2
(1,812)	1:174:A:LEU:HD12	1:111:A:VAL:HG21	12	0.22	0.08	0.2
(1,812)	1:174:A:LEU:HD11	1:111:A:VAL:HG23	12	0.22	0.08	0.2
(1,812)	1:174:A:LEU:HD11	1:111:A:VAL:HG21	12	0.22	0.08	0.2
(1,812)	1:174:A:LEU:HD12	1:111:A:VAL:HG22	12	0.22	0.08	0.2
(1,1012)	1:136:A:ALA:HA	1:162:A:ALA:HB1	12	0.22	0.12	0.16
(1,1012)	1:136:A:ALA:HA	1:162:A:ALA:HB2	12	0.22	0.12	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1012)	1:136:A:ALA:HA	1:162:A:ALA:HB3	12	0.22	0.12	0.16
(1,2237)	1:25:A:VAL:H	1:73:A:ILE:HA	12	0.2	0.06	0.2
(1,575)	1:36:A:ALA:HA	1:36:A:ALA:HB1	12	0.2	0.03	0.21
(1,575)	1:36:A:ALA:HA	1:36:A:ALA:HB3	12	0.2	0.03	0.21
(1,575)	1:36:A:ALA:HA	1:36:A:ALA:HB2	12	0.2	0.03	0.21
(1,608)	1:174:A:LEU:HD12	1:112:A:PRO:HD3	12	0.19	0.05	0.18
(1,608)	1:174:A:LEU:HD13	1:112:A:PRO:HD3	12	0.19	0.05	0.18
(1,608)	1:174:A:LEU:HD11	1:112:A:PRO:HD3	12	0.19	0.05	0.18
(1,1514)	1:139:A:VAL:H	1:139:A:VAL:HG23	12	0.18	0.06	0.17
(1,1514)	1:139:A:VAL:H	1:139:A:VAL:HG21	12	0.18	0.06	0.17
(1,1514)	1:139:A:VAL:H	1:139:A:VAL:HG22	12	0.18	0.06	0.17
(1,172)	1:168:A:ARG:HA	1:168:A:ARG:HB2	12	0.17	0.01	0.18
(1,1019)	1:155:A:LYS:HE3	1:155:A:LYS:HG2	12	0.16	0.02	0.17
(1,2339)	1:120:A:ILE:HG21	2:5:B:6MZ:H1'	12	0.16	0.03	0.16
(1,2339)	1:120:A:ILE:HG22	2:5:B:6MZ:H1'	12	0.16	0.03	0.16
(1,2339)	1:120:A:ILE:HG23	2:5:B:6MZ:H1'	12	0.16	0.03	0.16
(1,993)	1:18:A:MET:HA	1:19:A:PRO:HD2	12	0.14	0.04	0.14
(1,1684)	1:54:A:ALA:H	1:53:A:SER:HA	12	0.13	0.02	0.12
(1,893)	1:48:A:LEU:HD12	1:86:A:ARG:HG2	11	1.53	0.34	1.52
(1,893)	1:48:A:LEU:HD13	1:86:A:ARG:HG2	11	1.53	0.34	1.52
(1,86)	1:90:A:LYS:HA	1:93:A:GLU:HB2	11	1.43	0.07	1.44
(1,817)	1:130:A:LEU:HD23	1:130:A:LEU:HB3	11	1.08	0.18	1.06
(1,817)	1:130:A:LEU:HD22	1:130:A:LEU:HB3	11	1.08	0.18	1.06
(1,817)	1:130:A:LEU:HD21	1:130:A:LEU:HB3	11	1.08	0.18	1.06
(1,1545)	1:166:A:ALA:HB3	1:130:A:LEU:HD22	11	1.0	0.16	0.97
(1,1545)	1:166:A:ALA:HB3	1:130:A:LEU:HD21	11	1.0	0.16	0.97
(1,1545)	1:166:A:ALA:HB1	1:130:A:LEU:HD22	11	1.0	0.16	0.97
(1,1545)	1:166:A:ALA:HB2	1:130:A:LEU:HD21	11	1.0	0.16	0.97
(1,1545)	1:166:A:ALA:HB2	1:130:A:LEU:HD22	11	1.0	0.16	0.97
(1,1545)	1:166:A:ALA:HB2	1:130:A:LEU:HD23	11	1.0	0.16	0.97
(1,818)	1:130:A:LEU:HD13	1:130:A:LEU:HB2	11	0.93	0.17	0.99
(1,818)	1:130:A:LEU:HD11	1:130:A:LEU:HB2	11	0.93	0.17	0.99
(1,818)	1:130:A:LEU:HD12	1:130:A:LEU:HB2	11	0.93	0.17	0.99
(1,1755)	1:21:A:GLU:H	1:21:A:GLU:HG2	11	0.78	0.5	1.17
(1,392)	1:74:A:THR:H	1:73:A:ILE:HD12	11	0.66	0.19	0.72
(1,392)	1:74:A:THR:H	1:73:A:ILE:HD13	11	0.66	0.19	0.72
(1,392)	1:74:A:THR:H	1:73:A:ILE:HD11	11	0.66	0.19	0.72
(1,1349)	1:34:A:VAL:HG12	1:58:A:ILE:HG23	11	0.66	0.28	0.63
(1,1349)	1:34:A:VAL:HG11	1:58:A:ILE:HG23	11	0.66	0.28	0.63
(1,1349)	1:34:A:VAL:HG13	1:58:A:ILE:HG21	11	0.66	0.28	0.63
(1,1349)	1:34:A:VAL:HG12	1:58:A:ILE:HG21	11	0.66	0.28	0.63
(1,1349)	1:34:A:VAL:HG13	1:58:A:ILE:HG23	11	0.66	0.28	0.63

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,918)	1:102:A:GLU:HA	1:102:A:GLU:HG2	11	0.66	0.32	0.73
(1,894)	1:54:A:ALA:HB1	1:56:A:ILE:HD11	11	0.59	0.48	0.5
(1,894)	1:54:A:ALA:HB1	1:56:A:ILE:HD13	11	0.59	0.48	0.5
(1,894)	1:54:A:ALA:HB2	1:56:A:ILE:HD13	11	0.59	0.48	0.5
(1,894)	1:54:A:ALA:HB2	1:56:A:ILE:HD12	11	0.59	0.48	0.5
(1,894)	1:54:A:ALA:HB3	1:56:A:ILE:HD13	11	0.59	0.48	0.5
(1,961)	1:178:A:LYS:HE2	1:178:A:LYS:HB2	11	0.58	0.33	0.35
(1,1899)	1:83:A:ALA:H	1:73:A:ILE:HD12	11	0.57	0.19	0.52
(1,1899)	1:83:A:ALA:H	1:73:A:ILE:HD11	11	0.57	0.19	0.52
(1,1899)	1:83:A:ALA:H	1:73:A:ILE:HD13	11	0.57	0.19	0.52
(1,1658)	1:93:A:GLU:H	1:93:A:GLU:HB2	11	0.56	0.06	0.57
(1,94)	1:82:A:LYS:HA	1:82:A:LYS:HD2	11	0.53	0.06	0.5
(1,2239)	1:25:A:VAL:H	1:80:A:GLN:HB2	11	0.41	0.17	0.36
(1,2239)	1:25:A:VAL:H	1:80:A:GLN:HB3	11	0.41	0.17	0.36
(1,336)	1:23:A:GLU:HA	1:23:A:GLU:HG2	11	0.41	0.06	0.44
(1,832)	1:28:A:PHE:HB3	1:106:A:GLU:HB2	11	0.39	0.17	0.29
(1,983)	1:48:A:LEU:HD23	1:83:A:ALA:HA	11	0.35	0.23	0.26
(1,983)	1:48:A:LEU:HD22	1:83:A:ALA:HA	11	0.35	0.23	0.26
(1,983)	1:48:A:LEU:HD21	1:83:A:ALA:HA	11	0.35	0.23	0.26
(1,164)	1:73:A:ILE:HB	1:84:A:GLN:HG2	11	0.33	0.25	0.24
(1,116)	1:80:A:GLN:HA	1:83:A:ALA:HB1	11	0.29	0.14	0.26
(1,116)	1:80:A:GLN:HA	1:83:A:ALA:HB2	11	0.29	0.14	0.26
(1,116)	1:80:A:GLN:HA	1:83:A:ALA:HB3	11	0.29	0.14	0.26
(1,1277)	1:169:A:LYS:HB2	1:130:A:LEU:HD12	11	0.28	0.08	0.29
(1,1277)	1:169:A:LYS:HB2	1:130:A:LEU:HD11	11	0.28	0.08	0.29
(1,1277)	1:169:A:LYS:HB2	1:130:A:LEU:HD13	11	0.28	0.08	0.29
(1,1657)	1:93:A:GLU:H	1:93:A:GLU:HG2	11	0.27	0.06	0.28
(1,1343)	1:110:A:ARG:HD3	1:110:A:ARG:HB3	11	0.27	0.09	0.3
(1,1393)	1:90:A:LYS:HG2	1:90:A:LYS:HD2	11	0.27	0.06	0.27
(1,1510)	1:93:A:GLU:HG2	1:94:A:GLU:H	11	0.27	0.15	0.26
(1,2194)	1:150:A:GLU:H	1:151:A:GLN:HG3	11	0.25	0.22	0.17
(1,1014)	1:166:A:ALA:HB2	1:134:A:THR:HG23	11	0.24	0.05	0.24
(1,1014)	1:166:A:ALA:HB2	1:134:A:THR:HG22	11	0.24	0.05	0.24
(1,1014)	1:166:A:ALA:HB3	1:134:A:THR:HG21	11	0.24	0.05	0.24
(1,1014)	1:166:A:ALA:HB3	1:134:A:THR:HG23	11	0.24	0.05	0.24
(1,1014)	1:166:A:ALA:HB1	1:134:A:THR:HG21	11	0.24	0.05	0.24
(1,1014)	1:166:A:ALA:HB2	1:134:A:THR:HG21	11	0.24	0.05	0.24
(1,1014)	1:166:A:ALA:HB1	1:134:A:THR:HG22	11	0.24	0.05	0.24
(1,1414)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	11	0.23	0.06	0.21
(1,1414)	1:57:A:LYS:HE2	1:57:A:LYS:HD3	11	0.23	0.06	0.21
(1,1596)	1:72:A:VAL:HG12	1:72:A:VAL:HG23	11	0.23	0.05	0.22
(1,1596)	1:72:A:VAL:HG12	1:72:A:VAL:HG22	11	0.23	0.05	0.22

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1596)	1:72:A:VAL:HG11	1:72:A:VAL:HG22	11	0.23	0.05	0.22
(1,1596)	1:72:A:VAL:HG13	1:72:A:VAL:HG21	11	0.23	0.05	0.22
(1,1596)	1:72:A:VAL:HG11	1:72:A:VAL:HG23	11	0.23	0.05	0.22
(1,1596)	1:72:A:VAL:HG12	1:72:A:VAL:HG21	11	0.23	0.05	0.22
(1,1596)	1:72:A:VAL:HG13	1:72:A:VAL:HG23	11	0.23	0.05	0.22
(1,1596)	1:72:A:VAL:HG13	1:72:A:VAL:HG22	11	0.23	0.05	0.22
(1,157)	1:94:A:GLU:HA	1:94:A:GLU:HG2	11	0.22	0.08	0.22
(1,2132)	1:98:A:GLY:H	1:97:A:PHE:HA	11	0.19	0.03	0.21
(1,245)	1:21:A:GLU:HA	1:21:A:GLU:HG2	11	0.17	0.01	0.17
(1,1121)	1:87:A:ILE:H	1:86:A:ARG:HB2	11	0.17	0.03	0.15
(1,2315)	2:2:B:C:H2'	2:3:B:G:H8	11	0.14	0.03	0.14
(1,574)	1:175:A:ALA:HA	1:175:A:ALA:HB3	11	0.13	0.02	0.12
(1,574)	1:175:A:ALA:HA	1:175:A:ALA:HB2	11	0.13	0.02	0.12
(1,574)	1:175:A:ALA:HA	1:175:A:ALA:HB1	11	0.13	0.02	0.12
(1,2388)	1:177:A:VAL:HA	1:180:A:GLN:H	11	0.12	0.01	0.12
(1,1305)	1:63:A:THR:HG21	1:64:A:PRO:HD2	10	1.25	0.04	1.25
(1,1305)	1:63:A:THR:HG22	1:64:A:PRO:HD2	10	1.25	0.04	1.25
(1,1305)	1:63:A:THR:HG23	1:64:A:PRO:HD2	10	1.25	0.04	1.25
(1,1359)	1:27:A:VAL:H	1:27:A:VAL:HG12	10	1.12	0.08	1.15
(1,1359)	1:27:A:VAL:H	1:27:A:VAL:HG11	10	1.12	0.08	1.15
(1,1359)	1:27:A:VAL:H	1:27:A:VAL:HG13	10	1.12	0.08	1.15
(1,211)	1:45:A:ILE:HG12	1:45:A:ILE:HG22	10	1.03	0.02	1.02
(1,211)	1:45:A:ILE:HG12	1:45:A:ILE:HG23	10	1.03	0.02	1.02
(1,211)	1:45:A:ILE:HG12	1:45:A:ILE:HG21	10	1.03	0.02	1.02
(1,1935)	1:66:A:SER:H	1:63:A:THR:HG23	10	1.0	0.28	0.94
(1,1935)	1:66:A:SER:H	1:63:A:THR:HG21	10	1.0	0.28	0.94
(1,1935)	1:66:A:SER:H	1:63:A:THR:HG22	10	1.0	0.28	0.94
(1,440)	1:120:A:ILE:HD12	1:120:A:ILE:HG23	10	0.96	0.25	1.03
(1,440)	1:120:A:ILE:HD13	1:120:A:ILE:HG23	10	0.96	0.25	1.03
(1,440)	1:120:A:ILE:HD11	1:120:A:ILE:HG22	10	0.96	0.25	1.03
(1,440)	1:120:A:ILE:HD12	1:120:A:ILE:HG22	10	0.96	0.25	1.03
(1,440)	1:120:A:ILE:HD12	1:120:A:ILE:HG21	10	0.96	0.25	1.03
(1,1246)	1:45:A:ILE:HD12	1:45:A:ILE:HB	10	0.95	0.02	0.94
(1,1246)	1:45:A:ILE:HD13	1:45:A:ILE:HB	10	0.95	0.02	0.94
(1,1246)	1:45:A:ILE:HD11	1:45:A:ILE:HB	10	0.95	0.02	0.94
(1,221)	1:104:A:LYS:HE2	1:104:A:LYS:HG3	10	0.92	0.27	0.84
(1,1964)	1:108:A:HIS:H	1:28:A:PHE:HB3	10	0.89	0.66	0.82
(1,526)	1:17:A:PHE:HD1	1:17:A:PHE:HB2	10	0.75	0.03	0.76
(1,889)	1:96:A:PHE:HE1	1:36:A:ALA:HB1	10	0.7	0.45	0.52
(1,889)	1:96:A:PHE:HE1	1:36:A:ALA:HB3	10	0.7	0.45	0.52
(1,889)	1:96:A:PHE:HE1	1:36:A:ALA:HB2	10	0.7	0.45	0.52
(1,1009)	1:160:A:PHE:HA	1:163:A:SER:HB2	10	0.7	0.15	0.76

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,434)	1:100:A:LYS:H	1:100:A:LYS:HB2	10	0.7	0.05	0.69
(1,345)	1:177:A:VAL:H	1:177:A:VAL:HG13	10	0.69	0.85	0.15
(1,345)	1:177:A:VAL:H	1:177:A:VAL:HG11	10	0.69	0.85	0.15
(1,345)	1:177:A:VAL:H	1:177:A:VAL:HG12	10	0.69	0.85	0.15
(1,1243)	1:120:A:ILE:HD12	1:120:A:ILE:HB	10	0.69	0.04	0.7
(1,1243)	1:120:A:ILE:HD11	1:120:A:ILE:HB	10	0.69	0.04	0.7
(1,1243)	1:120:A:ILE:HD13	1:120:A:ILE:HB	10	0.69	0.04	0.7
(1,1919)	1:55:A:SER:H	1:73:A:ILE:HD13	10	0.67	0.27	0.6
(1,1919)	1:55:A:SER:H	1:73:A:ILE:HD11	10	0.67	0.27	0.6
(1,1919)	1:55:A:SER:H	1:73:A:ILE:HD12	10	0.67	0.27	0.6
(1,278)	1:100:A:LYS:HE2	1:100:A:LYS:HG2	10	0.67	0.27	0.68
(1,2252)	1:65:A:ASP:H	1:63:A:THR:HG23	10	0.66	0.13	0.69
(1,2252)	1:65:A:ASP:H	1:63:A:THR:HG21	10	0.66	0.13	0.69
(1,2252)	1:65:A:ASP:H	1:63:A:THR:HG22	10	0.66	0.13	0.69
(1,1386)	1:87:A:ILE:HD12	1:105:A:LEU:HD23	10	0.57	0.59	0.44
(1,1386)	1:87:A:ILE:HD12	1:105:A:LEU:HD21	10	0.57	0.59	0.44
(1,1386)	1:87:A:ILE:HD11	1:105:A:LEU:HD21	10	0.57	0.59	0.44
(1,1386)	1:87:A:ILE:HD12	1:105:A:LEU:HD22	10	0.57	0.59	0.44
(1,1386)	1:87:A:ILE:HD13	1:105:A:LEU:HD22	10	0.57	0.59	0.44
(1,902)	1:92:A:LYS:HA	1:92:A:LYS:HD3	10	0.55	0.01	0.55
(1,1718)	1:49:A:SER:H	1:49:A:SER:HB2	10	0.55	0.01	0.55
(1,213)	1:36:A:ALA:HB2	1:37:A:ILE:HD12	10	0.55	0.12	0.52
(1,213)	1:36:A:ALA:HB2	1:37:A:ILE:HD11	10	0.55	0.12	0.52
(1,213)	1:36:A:ALA:HB1	1:37:A:ILE:HD13	10	0.55	0.12	0.52
(1,213)	1:36:A:ALA:HB3	1:37:A:ILE:HD11	10	0.55	0.12	0.52
(1,213)	1:36:A:ALA:HB1	1:37:A:ILE:HD11	10	0.55	0.12	0.52
(1,213)	1:36:A:ALA:HB3	1:37:A:ILE:HD13	10	0.55	0.12	0.52
(1,213)	1:36:A:ALA:HB2	1:37:A:ILE:HD13	10	0.55	0.12	0.52
(1,2025)	1:90:A:LYS:H	1:90:A:LYS:HG2	10	0.52	0.25	0.59
(1,1059)	1:48:A:LEU:HD11	1:51:A:PHE:HD1	10	0.51	0.28	0.4
(1,1059)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	10	0.51	0.28	0.4
(1,1059)	1:48:A:LEU:HD13	1:51:A:PHE:HD1	10	0.51	0.28	0.4
(1,929)	1:27:A:VAL:HA	1:27:A:VAL:HG21	10	0.46	0.02	0.46
(1,929)	1:27:A:VAL:HA	1:27:A:VAL:HG22	10	0.46	0.02	0.46
(1,929)	1:27:A:VAL:HA	1:27:A:VAL:HG23	10	0.46	0.02	0.46
(1,210)	1:45:A:ILE:HG12	1:56:A:ILE:HG21	10	0.44	0.27	0.36
(1,210)	1:45:A:ILE:HG12	1:56:A:ILE:HG23	10	0.44	0.27	0.36
(1,210)	1:45:A:ILE:HG12	1:56:A:ILE:HG22	10	0.44	0.27	0.36
(1,1608)	1:103:A:VAL:H	1:102:A:GLU:HG2	10	0.43	0.41	0.16
(1,1391)	1:29:A:ILE:H	1:29:A:ILE:HG21	10	0.42	0.08	0.43
(1,1391)	1:29:A:ILE:H	1:29:A:ILE:HG22	10	0.42	0.08	0.43
(1,1391)	1:29:A:ILE:H	1:29:A:ILE:HG23	10	0.42	0.08	0.43

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2250)	1:65:A:ASP:H	1:64:A:PRO:HD3	10	0.4	0.01	0.4
(1,1715)	1:37:A:ILE:H	1:37:A:ILE:HD12	10	0.38	0.08	0.39
(1,1715)	1:37:A:ILE:H	1:37:A:ILE:HD11	10	0.38	0.08	0.39
(1,1715)	1:37:A:ILE:H	1:37:A:ILE:HD13	10	0.38	0.08	0.39
(1,994)	1:18:A:MET:HA	1:18:A:MET:HG2	10	0.37	0.06	0.35
(1,88)	1:86:A:ARG:HA	1:86:A:ARG:HG3	10	0.37	0.01	0.37
(1,833)	1:37:A:ILE:HD12	1:87:A:ILE:HA	10	0.36	0.14	0.34
(1,833)	1:37:A:ILE:HD11	1:87:A:ILE:HA	10	0.36	0.14	0.34
(1,833)	1:37:A:ILE:HD13	1:87:A:ILE:HA	10	0.36	0.14	0.34
(1,1111)	1:169:A:LYS:H	1:169:A:LYS:HG2	10	0.35	0.21	0.3
(1,863)	1:87:A:ILE:HG22	1:84:A:GLN:HA	10	0.35	0.05	0.34
(1,863)	1:87:A:ILE:HG21	1:84:A:GLN:HA	10	0.35	0.05	0.34
(1,863)	1:87:A:ILE:HG23	1:84:A:GLN:HA	10	0.35	0.05	0.34
(1,1764)	1:51:A:PHE:H	1:50:A:ARG:HB2	10	0.3	0.09	0.26
(1,1641)	1:36:A:ALA:H	1:33:A:ALA:HA	10	0.29	0.04	0.29
(1,1079)	1:27:A:VAL:H	1:27:A:VAL:HB	10	0.28	0.03	0.27
(1,1204)	1:93:A:GLU:HB2	1:93:A:GLU:HG3	10	0.27	0.06	0.28
(1,1134)	1:104:A:LYS:H	1:104:A:LYS:HB3	10	0.27	0.07	0.29
(1,1173)	1:45:A:ILE:HA	1:45:A:ILE:HG12	10	0.27	0.13	0.24
(1,1578)	1:30:A:PRO:HD2	1:29:A:ILE:HG22	10	0.27	0.14	0.23
(1,1578)	1:30:A:PRO:HD2	1:29:A:ILE:HG23	10	0.27	0.14	0.23
(1,1578)	1:30:A:PRO:HD2	1:29:A:ILE:HG21	10	0.27	0.14	0.23
(1,403)	1:130:A:LEU:H	1:130:A:LEU:HB3	10	0.23	0.07	0.23
(1,565)	1:92:A:LYS:HA	1:92:A:LYS:HG2	10	0.23	0.03	0.23
(1,1568)	1:37:A:ILE:HG12	1:29:A:ILE:HD12	10	0.22	0.08	0.21
(1,1568)	1:37:A:ILE:HG12	1:29:A:ILE:HD13	10	0.22	0.08	0.21
(1,1568)	1:37:A:ILE:HG12	1:29:A:ILE:HD11	10	0.22	0.08	0.21
(1,562)	1:63:A:THR:HB	1:63:A:THR:HG22	10	0.19	0.01	0.2
(1,562)	1:63:A:THR:HB	1:63:A:THR:HG23	10	0.19	0.01	0.2
(1,562)	1:63:A:THR:HB	1:63:A:THR:HG21	10	0.19	0.01	0.2
(1,2365)	1:71:A:VAL:HA	1:58:A:ILE:HA	10	0.19	0.05	0.2
(1,828)	1:91:A:LEU:HD22	1:91:A:LEU:HB2	10	0.19	0.03	0.2
(1,828)	1:91:A:LEU:HD21	1:91:A:LEU:HB2	10	0.19	0.03	0.2
(1,425)	1:86:A:ARG:HA	1:86:A:ARG:HG2	10	0.18	0.02	0.18
(1,823)	1:29:A:ILE:HG23	1:30:A:PRO:HD3	10	0.17	0.03	0.18
(1,823)	1:29:A:ILE:HG21	1:30:A:PRO:HD3	10	0.17	0.03	0.18
(1,823)	1:29:A:ILE:HG22	1:30:A:PRO:HD3	10	0.17	0.03	0.18
(1,112)	1:45:A:ILE:HA	1:45:A:ILE:HG13	10	0.16	0.01	0.16
(1,274)	1:90:A:LYS:HA	1:90:A:LYS:HB2	10	0.16	0.01	0.16
(1,2465)	1:120:A:ILE:HG21	2:4:B:G:H5'	10	0.14	0.03	0.13
(1,2465)	1:120:A:ILE:HG22	2:4:B:G:H5'	10	0.14	0.03	0.13
(1,2465)	1:120:A:ILE:HG23	2:4:B:G:H5'	10	0.14	0.03	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,981)	1:48:A:LEU:HD23	1:48:A:LEU:HD12	10	0.13	0.04	0.12
(1,981)	1:48:A:LEU:HD23	1:48:A:LEU:HD11	10	0.13	0.04	0.12
(1,981)	1:48:A:LEU:HD22	1:48:A:LEU:HD13	10	0.13	0.04	0.12
(1,981)	1:48:A:LEU:HD22	1:48:A:LEU:HD12	10	0.13	0.04	0.12
(1,981)	1:48:A:LEU:HD21	1:48:A:LEU:HD11	10	0.13	0.04	0.12
(1,981)	1:48:A:LEU:HD22	1:48:A:LEU:HD11	10	0.13	0.04	0.12
(1,981)	1:48:A:LEU:HD21	1:48:A:LEU:HD12	10	0.13	0.04	0.12
(1,2334)	2:4:B:G:H3'	2:4:B:G:H8	10	0.13	0.02	0.12
(1,707)	1:48:A:LEU:HD11	1:48:A:LEU:HA	9	1.66	0.07	1.67
(1,707)	1:48:A:LEU:HD12	1:48:A:LEU:HA	9	1.66	0.07	1.67
(1,707)	1:48:A:LEU:HD13	1:48:A:LEU:HA	9	1.66	0.07	1.67
(1,664)	1:53:A:SER:HB3	1:82:A:LYS:HD2	9	1.49	0.09	1.51
(1,984)	1:48:A:LEU:HD22	1:48:A:LEU:HA	9	1.45	0.05	1.46
(1,984)	1:48:A:LEU:HD21	1:48:A:LEU:HA	9	1.45	0.05	1.46
(1,984)	1:48:A:LEU:HD23	1:48:A:LEU:HA	9	1.45	0.05	1.46
(1,1127)	1:94:A:GLU:H	1:93:A:GLU:HG3	9	1.15	0.2	1.11
(1,809)	1:73:A:ILE:HD11	1:80:A:GLN:HA	9	1.1	0.32	0.9
(1,809)	1:73:A:ILE:HD12	1:80:A:GLN:HA	9	1.1	0.32	0.9
(1,809)	1:73:A:ILE:HD13	1:80:A:GLN:HA	9	1.1	0.32	0.9
(1,1536)	1:48:A:LEU:HB2	1:48:A:LEU:HD21	9	0.97	0.05	1.0
(1,1536)	1:48:A:LEU:HB2	1:48:A:LEU:HD23	9	0.97	0.05	1.0
(1,728)	1:88:A:TYR:HA	1:103:A:VAL:HG13	9	0.9	0.38	1.0
(1,728)	1:88:A:TYR:HA	1:103:A:VAL:HG12	9	0.9	0.38	1.0
(1,728)	1:88:A:TYR:HA	1:103:A:VAL:HG11	9	0.9	0.38	1.0
(1,2172)	1:100:A:LYS:H	1:100:A:LYS:HD2	9	0.83	0.51	1.18
(1,1762)	1:93:A:GLU:H	1:93:A:GLU:HB3	9	0.74	0.05	0.75
(1,449)	1:71:A:VAL:H	1:71:A:VAL:HG21	9	0.73	0.49	0.46
(1,449)	1:71:A:VAL:H	1:71:A:VAL:HG23	9	0.73	0.49	0.46
(1,449)	1:71:A:VAL:H	1:71:A:VAL:HG22	9	0.73	0.49	0.46
(1,834)	1:45:A:ILE:HD12	1:57:A:LYS:HA	9	0.63	0.42	0.5
(1,834)	1:45:A:ILE:HD11	1:57:A:LYS:HA	9	0.63	0.42	0.5
(1,834)	1:45:A:ILE:HD13	1:57:A:LYS:HA	9	0.63	0.42	0.5
(1,280)	1:168:A:ARG:HD2	1:168:A:ARG:HB2	9	0.61	0.24	0.52
(1,114)	1:52:A:ALA:HA	1:82:A:LYS:HD2	9	0.6	0.27	0.57
(1,882)	1:133:A:LEU:HD22	1:133:A:LEU:HB2	9	0.5	0.03	0.49
(1,882)	1:133:A:LEU:HD23	1:133:A:LEU:HB2	9	0.5	0.03	0.49
(1,882)	1:133:A:LEU:HD21	1:133:A:LEU:HB2	9	0.5	0.03	0.49
(1,1222)	1:48:A:LEU:HG	1:48:A:LEU:HB2	9	0.41	0.01	0.42
(1,1360)	1:130:A:LEU:HD22	1:166:A:ALA:HA	9	0.4	0.12	0.45
(1,1360)	1:130:A:LEU:HD21	1:166:A:ALA:HA	9	0.4	0.12	0.45
(1,1360)	1:130:A:LEU:HD23	1:166:A:ALA:HA	9	0.4	0.12	0.45
(1,967)	1:94:A:GLU:HB2	1:96:A:PHE:HD2	9	0.31	0.04	0.32

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,967)	1:94:A:GLU:HB2	1:96:A:PHE:HD1	9	0.31	0.04	0.32
(1,1298)	1:105:A:LEU:HG	1:30:A:PRO:HD3	9	0.29	0.3	0.17
(1,1565)	1:93:A:GLU:HA	1:93:A:GLU:HB2	9	0.29	0.01	0.29
(1,232)	1:111:A:VAL:HG11	1:111:A:VAL:HG23	9	0.28	0.07	0.29
(1,232)	1:111:A:VAL:HG13	1:111:A:VAL:HG22	9	0.28	0.07	0.29
(1,232)	1:111:A:VAL:HG13	1:111:A:VAL:HG23	9	0.28	0.07	0.29
(1,232)	1:111:A:VAL:HG12	1:111:A:VAL:HG22	9	0.28	0.07	0.29
(1,232)	1:111:A:VAL:HG11	1:111:A:VAL:HG22	9	0.28	0.07	0.29
(1,232)	1:111:A:VAL:HG12	1:111:A:VAL:HG21	9	0.28	0.07	0.29
(1,232)	1:111:A:VAL:HG11	1:111:A:VAL:HG21	9	0.28	0.07	0.29
(1,1737)	1:176:A:GLN:HE21	1:176:A:GLN:HG2	9	0.27	0.01	0.27
(1,1885)	1:155:A:LYS:H	1:139:A:VAL:HG13	9	0.26	0.1	0.26
(1,1885)	1:155:A:LYS:H	1:139:A:VAL:HG12	9	0.26	0.1	0.26
(1,1261)	1:104:A:LYS:HG3	1:104:A:LYS:HD2	9	0.26	0.03	0.27
(1,1363)	1:170:A:ILE:H	1:170:A:ILE:HD13	9	0.26	0.07	0.26
(1,1363)	1:170:A:ILE:H	1:170:A:ILE:HD12	9	0.26	0.07	0.26
(1,1363)	1:170:A:ILE:H	1:170:A:ILE:HD11	9	0.26	0.07	0.26
(1,1133)	1:104:A:LYS:H	1:104:A:LYS:HB2	9	0.25	0.03	0.26
(1,183)	1:22:A:GLN:HB2	1:22:A:GLN:HG3	9	0.25	0.06	0.25
(1,1058)	1:26:A:HIS:HD2	1:72:A:VAL:HG11	9	0.22	0.12	0.19
(1,1058)	1:26:A:HIS:HD2	1:72:A:VAL:HG13	9	0.22	0.12	0.19
(1,1058)	1:26:A:HIS:HD2	1:72:A:VAL:HG12	9	0.22	0.12	0.19
(1,1244)	1:91:A:LEU:HD11	1:91:A:LEU:HB2	9	0.2	0.03	0.21
(1,1244)	1:91:A:LEU:HD13	1:91:A:LEU:HB2	9	0.2	0.03	0.21
(1,1244)	1:91:A:LEU:HD12	1:91:A:LEU:HB2	9	0.2	0.03	0.21
(1,1049)	1:97:A:PHE:HD1	1:91:A:LEU:HG	9	0.2	0.06	0.18
(1,1042)	1:96:A:PHE:HD1	1:94:A:GLU:HB3	9	0.18	0.07	0.15
(1,2219)	1:158:A:GLY:H	1:136:A:ALA:HA	9	0.18	0.08	0.13
(1,1575)	1:168:A:ARG:HA	1:171:A:ARG:HG3	9	0.17	0.06	0.17
(1,2015)	1:36:A:ALA:H	1:35:A:GLY:HA2	9	0.11	0.0	0.11
(1,862)	1:90:A:LYS:HD3	1:90:A:LYS:HE2	9	0.11	0.01	0.1
(1,2401)	1:174:A:LEU:H	1:175:A:ALA:H	9	0.11	0.01	0.11
(1,528)	1:103:A:VAL:HG21	1:159:A:HIS:HD2	8	2.37	1.41	2.04
(1,528)	1:103:A:VAL:HG23	1:159:A:HIS:HD2	8	2.37	1.41	2.04
(1,528)	1:103:A:VAL:HG22	1:159:A:HIS:HD2	8	2.37	1.41	2.04
(1,721)	1:168:A:ARG:HA	1:168:A:ARG:HD2	8	0.8	0.26	0.96
(1,1410)	1:104:A:LYS:HB2	1:157:A:ILE:HG21	8	0.7	0.41	0.52
(1,1410)	1:104:A:LYS:HB2	1:157:A:ILE:HG23	8	0.7	0.41	0.52
(1,1410)	1:104:A:LYS:HB2	1:157:A:ILE:HG22	8	0.7	0.41	0.52
(1,1597)	1:57:A:LYS:HE2	1:72:A:VAL:HG13	8	0.67	0.03	0.66
(1,1597)	1:57:A:LYS:HE2	1:72:A:VAL:HG12	8	0.67	0.03	0.66
(1,1597)	1:57:A:LYS:HE2	1:72:A:VAL:HG11	8	0.67	0.03	0.66

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2075)	1:143:A:ASP:H	1:142:A:ARG:HA	8	0.65	0.04	0.65
(1,435)	1:100:A:LYS:H	1:100:A:LYS:HB3	8	0.6	0.15	0.64
(1,1546)	1:166:A:ALA:HB2	1:130:A:LEU:HD13	8	0.47	0.07	0.48
(1,1546)	1:166:A:ALA:HB3	1:130:A:LEU:HD13	8	0.47	0.07	0.48
(1,1546)	1:166:A:ALA:HB3	1:130:A:LEU:HD11	8	0.47	0.07	0.48
(1,1546)	1:166:A:ALA:HB1	1:130:A:LEU:HD13	8	0.47	0.07	0.48
(1,1546)	1:166:A:ALA:HB1	1:130:A:LEU:HD12	8	0.47	0.07	0.48
(1,1546)	1:166:A:ALA:HB2	1:130:A:LEU:HD12	8	0.47	0.07	0.48
(1,1546)	1:166:A:ALA:HB2	1:130:A:LEU:HD11	8	0.47	0.07	0.48
(1,2167)	1:80:A:GLN:HE21	1:80:A:GLN:HB2	8	0.47	0.12	0.52
(1,1365)	1:48:A:LEU:HD22	1:86:A:ARG:HB3	8	0.46	0.17	0.46
(1,1365)	1:48:A:LEU:HD23	1:86:A:ARG:HB3	8	0.46	0.17	0.46
(1,1365)	1:48:A:LEU:HD22	1:86:A:ARG:HB2	8	0.46	0.17	0.46
(1,633)	1:100:A:LYS:HB2	1:100:A:LYS:HA	8	0.45	0.02	0.44
(1,978)	1:29:A:ILE:HA	1:105:A:LEU:HD12	8	0.41	0.14	0.38
(1,978)	1:29:A:ILE:HA	1:105:A:LEU:HD13	8	0.41	0.14	0.38
(1,978)	1:29:A:ILE:HA	1:105:A:LEU:HD11	8	0.41	0.14	0.38
(1,1029)	1:28:A:PHE:HD1	1:106:A:GLU:HG2	8	0.38	0.5	0.15
(1,709)	1:86:A:ARG:HB2	1:48:A:LEU:HD12	8	0.36	0.26	0.32
(1,709)	1:86:A:ARG:HB2	1:48:A:LEU:HD13	8	0.36	0.26	0.32
(1,840)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	8	0.35	0.06	0.31
(1,2327)	1:140:A:VAL:HG21	2:4:B:G:H1'	8	0.35	0.14	0.4
(1,2327)	1:140:A:VAL:HG22	2:4:B:G:H1'	8	0.35	0.14	0.4
(1,2327)	1:140:A:VAL:HG23	2:4:B:G:H1'	8	0.35	0.14	0.4
(1,325)	1:159:A:HIS:HD2	1:159:A:HIS:HA	8	0.32	0.18	0.38
(1,301)	1:55:A:SER:H	1:55:A:SER:HB2	8	0.32	0.06	0.32
(1,553)	1:23:A:GLU:HA	1:23:A:GLU:HG3	8	0.3	0.01	0.3
(1,1592)	1:142:A:ARG:HD2	1:142:A:ARG:HB2	8	0.29	0.24	0.22
(1,1312)	1:119:A:VAL:HA	1:126:A:THR:HG23	8	0.27	0.11	0.21
(1,1312)	1:119:A:VAL:HA	1:126:A:THR:HG22	8	0.27	0.11	0.21
(1,1312)	1:119:A:VAL:HA	1:126:A:THR:HG21	8	0.27	0.11	0.21
(1,2074)	1:143:A:ASP:H	1:143:A:ASP:HA	8	0.26	0.01	0.26
(1,585)	1:22:A:GLN:HA	1:22:A:GLN:HG2	8	0.26	0.09	0.25
(1,2268)	1:128:A:ASN:HD22	1:128:A:ASN:HB3	8	0.23	0.0	0.23
(1,991)	1:142:A:ARG:HA	1:142:A:ARG:HD3	8	0.22	0.1	0.16
(1,991)	1:142:A:ARG:HD2	1:142:A:ARG:HA	8	0.22	0.1	0.16
(1,985)	1:47:A:GLN:HB3	1:47:A:GLN:HG2	8	0.2	0.02	0.2
(1,2455)	1:118:A:ARG:HD3	2:1:B:U:H1'	8	0.19	0.08	0.16
(1,1258)	1:147:A:ASP:H	1:147:A:ASP:HB3	8	0.18	0.02	0.18
(1,837)	1:141:A:PRO:HD2	1:140:A:VAL:HA	8	0.18	0.06	0.17
(1,451)	1:166:A:ALA:HB2	1:134:A:THR:HB	8	0.17	0.03	0.17
(1,451)	1:166:A:ALA:HB3	1:134:A:THR:HB	8	0.17	0.03	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,451)	1:166:A:ALA:HB1	1:134:A:THR:HB	8	0.17	0.03	0.17
(1,1802)	1:23:A:GLU:H	1:23:A:GLU:HB2	8	0.16	0.01	0.16
(1,1579)	1:32:A:GLN:HG2	1:96:A:PHE:HD1	8	0.16	0.01	0.16
(1,1437)	1:159:A:HIS:HB2	1:159:A:HIS:HD2	8	0.16	0.05	0.13
(1,2392)	1:165:A:MET:H	1:166:A:ALA:H	8	0.15	0.02	0.15
(1,1125)	1:87:A:ILE:H	1:87:A:ILE:HG12	8	0.14	0.02	0.14
(1,2385)	1:174:A:LEU:HA	1:177:A:VAL:H	8	0.12	0.01	0.12
(1,2398)	1:171:A:ARG:H	1:172:A:ASP:H	8	0.12	0.02	0.12
(1,186)	1:170:A:ILE:HA	1:170:A:ILE:HB	8	0.11	0.01	0.11
(1,602)	1:144:A:GLN:HG2	1:141:A:PRO:HD2	7	0.95	0.54	1.21
(1,1666)	1:101:A:GLU:H	1:101:A:GLU:HG2	7	0.79	0.65	0.33
(1,2112)	1:75:A:GLY:H	1:80:A:GLN:HE22	7	0.78	0.37	0.57
(1,1632)	1:139:A:VAL:H	1:138:A:VAL:HG23	7	0.7	0.5	0.33
(1,1632)	1:139:A:VAL:H	1:138:A:VAL:HG22	7	0.7	0.5	0.33
(1,133)	1:165:A:MET:HG2	1:165:A:MET:HA	7	0.47	0.15	0.53
(1,799)	1:48:A:LEU:HD11	1:48:A:LEU:HB2	7	0.45	0.5	0.14
(1,799)	1:48:A:LEU:HD12	1:48:A:LEU:HB2	7	0.45	0.5	0.14
(1,799)	1:48:A:LEU:HD13	1:48:A:LEU:HB2	7	0.45	0.5	0.14
(1,498)	1:147:A:ASP:HB3	1:147:A:ASP:HA	7	0.42	0.0	0.42
(1,1564)	1:92:A:LYS:HD3	1:103:A:VAL:HG11	7	0.39	0.35	0.21
(1,1564)	1:92:A:LYS:HD3	1:103:A:VAL:HG12	7	0.39	0.35	0.21
(1,826)	1:91:A:LEU:HD21	1:105:A:LEU:HD13	7	0.38	0.22	0.36
(1,826)	1:91:A:LEU:HD23	1:105:A:LEU:HD12	7	0.38	0.22	0.36
(1,826)	1:91:A:LEU:HD22	1:105:A:LEU:HD11	7	0.38	0.22	0.36
(1,826)	1:91:A:LEU:HD21	1:105:A:LEU:HD11	7	0.38	0.22	0.36
(1,1599)	1:127:A:VAL:HA	1:138:A:VAL:HB	7	0.38	0.31	0.27
(1,1634)	1:18:A:MET:H	1:18:A:MET:HB2	7	0.37	0.0	0.37
(1,1631)	1:138:A:VAL:H	1:138:A:VAL:HG11	7	0.33	0.14	0.23
(1,1631)	1:138:A:VAL:H	1:138:A:VAL:HG12	7	0.33	0.14	0.23
(1,1631)	1:138:A:VAL:H	1:138:A:VAL:HG13	7	0.33	0.14	0.23
(1,2269)	1:84:A:GLN:HE21	1:84:A:GLN:HB2	7	0.32	0.08	0.36
(1,1064)	1:97:A:PHE:HE1	1:91:A:LEU:HD12	7	0.3	0.2	0.22
(1,1064)	1:97:A:PHE:HE1	1:91:A:LEU:HD13	7	0.3	0.2	0.22
(1,1064)	1:97:A:PHE:HE1	1:91:A:LEU:HD11	7	0.3	0.2	0.22
(1,753)	1:107:A:THR:HG22	1:27:A:VAL:HA	7	0.27	0.04	0.29
(1,753)	1:107:A:THR:HG23	1:27:A:VAL:HA	7	0.27	0.04	0.29
(1,753)	1:107:A:THR:HG21	1:27:A:VAL:HA	7	0.27	0.04	0.29
(1,2281)	1:50:A:ARG:H	1:49:A:SER:HB2	7	0.27	0.08	0.32
(1,1797)	1:148:A:GLU:H	1:147:A:ASP:HB2	7	0.24	0.02	0.24
(1,2369)	1:28:A:PHE:HA	1:70:A:MET:HA	7	0.17	0.05	0.17
(1,2460)	1:122:A:LYS:HG2	2:2:B:C:H5”	7	0.15	0.03	0.16
(1,2460)	1:122:A:LYS:HG2	2:2:B:C:H5’	7	0.15	0.03	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1939)	1:89:A:GLY:H	1:86:A:ARG:H	7	0.15	0.05	0.13
(1,1166)	1:70:A:MET:HA	1:70:A:MET:HG2	7	0.14	0.02	0.13
(1,672)	1:45:A:ILE:HG13	1:45:A:ILE:HD13	7	0.14	0.02	0.14
(1,672)	1:45:A:ILE:HG13	1:45:A:ILE:HD11	7	0.14	0.02	0.14
(1,672)	1:45:A:ILE:HG13	1:45:A:ILE:HD12	7	0.14	0.02	0.14
(1,2264)	1:29:A:ILE:H	1:29:A:ILE:HB	7	0.14	0.01	0.14
(1,1451)	1:109:A:ILE:HD11	1:109:A:ILE:HG21	7	0.14	0.02	0.13
(1,1451)	1:109:A:ILE:HD13	1:109:A:ILE:HG23	7	0.14	0.02	0.13
(1,1451)	1:109:A:ILE:HD12	1:109:A:ILE:HG23	7	0.14	0.02	0.13
(1,1451)	1:109:A:ILE:HD13	1:109:A:ILE:HG22	7	0.14	0.02	0.13
(1,1451)	1:109:A:ILE:HD13	1:109:A:ILE:HG21	7	0.14	0.02	0.13
(1,1451)	1:109:A:ILE:HD11	1:109:A:ILE:HG23	7	0.14	0.02	0.13
(1,1470)	1:161:A:TYR:HB3	1:162:A:ALA:H	7	0.14	0.03	0.13
(1,1942)	1:45:A:ILE:H	1:38:A:ILE:HA	7	0.14	0.03	0.14
(1,1903)	1:170:A:ILE:H	1:168:A:ARG:HA	7	0.13	0.04	0.11
(1,2463)	1:122:A:LYS:HD2	2:2:B:C:H3'	7	0.13	0.0	0.13
(1,2463)	1:122:A:LYS:HD3	2:2:B:C:H3'	7	0.13	0.0	0.13
(1,1469)	1:161:A:TYR:H	1:161:A:TYR:HB3	7	0.13	0.02	0.14
(1,1685)	1:149:A:ASN:H	1:148:A:GLU:HB2	7	0.12	0.02	0.13
(1,364)	1:58:A:ILE:H	1:58:A:ILE:HG13	7	0.12	0.01	0.12
(1,2305)	2:5:B:6MZ:H2'	2:6:B:C:H5	7	0.11	0.01	0.11
(1,2396)	1:169:A:LYS:H	1:170:A:ILE:H	7	0.11	0.01	0.11
(1,2395)	1:168:A:ARG:H	1:169:A:LYS:H	7	0.11	0.0	0.11
(1,1574)	1:103:A:VAL:HG12	1:92:A:LYS:HA	6	0.95	1.0	0.37
(1,1574)	1:103:A:VAL:HG13	1:92:A:LYS:HA	6	0.95	1.0	0.37
(1,1574)	1:103:A:VAL:HG11	1:92:A:LYS:HA	6	0.95	1.0	0.37
(1,1552)	1:57:A:LYS:HG3	1:57:A:LYS:HE2	6	0.95	0.01	0.95
(1,504)	1:122:A:LYS:H	1:122:A:LYS:HG2	6	0.76	0.27	0.87
(1,1594)	1:27:A:VAL:H	1:71:A:VAL:HB	6	0.74	0.55	0.74
(1,2163)	1:102:A:GLU:H	1:102:A:GLU:HB3	6	0.62	0.16	0.64
(1,564)	1:71:A:VAL:HA	1:71:A:VAL:HG12	6	0.4	0.22	0.5
(1,564)	1:71:A:VAL:HA	1:71:A:VAL:HG13	6	0.4	0.22	0.5
(1,644)	1:102:A:GLU:HB2	1:102:A:GLU:HA	6	0.38	0.06	0.4
(1,41)	1:51:A:PHE:HE1	1:86:A:ARG:HD2	6	0.32	0.16	0.28
(1,518)	1:142:A:ARG:HA	1:142:A:ARG:HB2	6	0.27	0.16	0.25
(1,515)	1:122:A:LYS:H	1:122:A:LYS:HD3	6	0.26	0.05	0.24
(1,1249)	1:34:A:VAL:HA	1:58:A:ILE:HD11	6	0.26	0.06	0.26
(1,1249)	1:34:A:VAL:HA	1:58:A:ILE:HD12	6	0.26	0.06	0.26
(1,1249)	1:34:A:VAL:HA	1:58:A:ILE:HD13	6	0.26	0.06	0.26
(1,1358)	1:54:A:ALA:HB1	1:75:A:GLY:HA3	6	0.23	0.11	0.24
(1,1358)	1:54:A:ALA:HB2	1:75:A:GLY:HA3	6	0.23	0.11	0.24
(1,1358)	1:54:A:ALA:HB3	1:75:A:GLY:HA3	6	0.23	0.11	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1073)	1:88:A:TYR:HE1	1:103:A:VAL:HB	6	0.22	0.1	0.18
(1,1158)	1:143:A:ASP:HA	1:143:A:ASP:HB2	6	0.17	0.0	0.17
(1,2347)	1:127:A:VAL:HG11	2:5:B:6MZ:H1'	6	0.15	0.03	0.15
(1,2347)	1:127:A:VAL:HG12	2:5:B:6MZ:H1'	6	0.15	0.03	0.15
(1,2347)	1:127:A:VAL:HG13	2:5:B:6MZ:H1'	6	0.15	0.03	0.15
(1,120)	1:37:A:ILE:HG23	1:37:A:ILE:HA	6	0.15	0.03	0.14
(1,120)	1:37:A:ILE:HG21	1:37:A:ILE:HA	6	0.15	0.03	0.14
(1,120)	1:37:A:ILE:HG22	1:37:A:ILE:HA	6	0.15	0.03	0.14
(1,2303)	2:5:B:6MZ:H2	2:6:B:C:H1'	6	0.11	0.01	0.11
(1,729)	1:29:A:ILE:HD11	1:34:A:VAL:HG11	5	1.88	1.22	2.51
(1,729)	1:29:A:ILE:HD11	1:34:A:VAL:HG12	5	1.88	1.22	2.51
(1,729)	1:29:A:ILE:HD13	1:34:A:VAL:HG11	5	1.88	1.22	2.51
(1,729)	1:29:A:ILE:HD12	1:34:A:VAL:HG12	5	1.88	1.22	2.51
(1,1131)	1:34:A:VAL:H	1:34:A:VAL:HG13	5	1.04	0.75	1.62
(1,1131)	1:34:A:VAL:H	1:34:A:VAL:HG12	5	1.04	0.75	1.62
(1,1192)	1:181:A:HIS:HB3	1:178:A:LYS:HA	5	1.02	0.18	1.05
(1,1011)	1:127:A:VAL:HG21	1:138:A:VAL:HB	5	0.91	0.47	0.63
(1,1011)	1:127:A:VAL:HG22	1:138:A:VAL:HB	5	0.91	0.47	0.63
(1,1011)	1:127:A:VAL:HG23	1:138:A:VAL:HB	5	0.91	0.47	0.63
(1,250)	1:56:A:ILE:HD11	1:56:A:ILE:HB	5	0.84	0.32	1.0
(1,250)	1:56:A:ILE:HD13	1:56:A:ILE:HB	5	0.84	0.32	1.0
(1,250)	1:56:A:ILE:HD12	1:56:A:ILE:HB	5	0.84	0.32	1.0
(1,655)	1:50:A:ARG:HG3	1:50:A:ARG:HA	5	0.75	0.08	0.8
(1,1792)	1:100:A:LYS:H	1:100:A:LYS:HG2	5	0.65	0.17	0.52
(1,1135)	1:80:A:GLN:HE22	1:25:A:VAL:HG22	5	0.6	0.57	0.22
(1,1135)	1:80:A:GLN:HE22	1:25:A:VAL:HG21	5	0.6	0.57	0.22
(1,1135)	1:80:A:GLN:HE22	1:25:A:VAL:HG23	5	0.6	0.57	0.22
(1,914)	1:68:A:VAL:HG21	1:28:A:PHE:HE1	5	0.32	0.04	0.31
(1,914)	1:68:A:VAL:HG23	1:28:A:PHE:HE1	5	0.32	0.04	0.31
(1,914)	1:68:A:VAL:HG22	1:28:A:PHE:HE1	5	0.32	0.04	0.31
(1,969)	1:33:A:ALA:HA	1:96:A:PHE:HD2	5	0.31	0.08	0.35
(1,969)	1:33:A:ALA:HA	1:96:A:PHE:HD1	5	0.31	0.08	0.35
(1,2479)	2:1:B:U:H1'	2:2:B:C:H5	5	0.3	0.05	0.33
(1,2131)	1:131:A:GLN:HE22	1:131:A:GLN:HB2	5	0.28	0.01	0.27
(1,62)	1:181:A:HIS:HA	1:181:A:HIS:HB2	5	0.25	0.0	0.25
(1,1922)	1:149:A:ASN:HD22	1:149:A:ASN:HA	5	0.24	0.09	0.22
(1,614)	1:103:A:VAL:HG11	1:103:A:VAL:HA	5	0.23	0.06	0.21
(1,614)	1:103:A:VAL:HG12	1:103:A:VAL:HA	5	0.23	0.06	0.21
(1,865)	1:116:A:ALA:HB3	1:140:A:VAL:HB	5	0.22	0.04	0.22
(1,865)	1:116:A:ALA:HB1	1:140:A:VAL:HB	5	0.22	0.04	0.22
(1,865)	1:116:A:ALA:HB2	1:140:A:VAL:HB	5	0.22	0.04	0.22
(1,572)	1:90:A:LYS:HA	1:90:A:LYS:HG2	5	0.22	0.01	0.21

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,554)	1:95:A:ASN:HA	1:95:A:ASN:HB2	5	0.21	0.01	0.21
(1,2441)	2:1:B:U:H5	2:1:B:U:H3'	5	0.21	0.07	0.17
(1,1344)	1:153:A:ILE:HG23	1:110:A:ARG:HD3	5	0.2	0.11	0.13
(1,1344)	1:153:A:ILE:HG22	1:110:A:ARG:HD3	5	0.2	0.11	0.13
(1,1344)	1:153:A:ILE:HG21	1:110:A:ARG:HD3	5	0.2	0.11	0.13
(1,1102)	1:93:A:GLU:H	1:93:A:GLU:HG3	5	0.18	0.03	0.18
(1,2480)	2:1:B:U:H1'	2:2:B:C:H3'	5	0.16	0.08	0.13
(1,76)	1:67:A:LYS:HA	1:67:A:LYS:HB2	5	0.16	0.0	0.16
(1,1373)	1:94:A:GLU:HB2	1:96:A:PHE:HZ	5	0.16	0.06	0.13
(1,1271)	1:94:A:GLU:HB3	1:96:A:PHE:HZ	5	0.15	0.04	0.15
(1,2359)	1:106:A:GLU:HA	1:157:A:ILE:HA	5	0.15	0.05	0.12
(1,168)	1:173:A:ILE:HB	1:170:A:ILE:HA	5	0.13	0.02	0.13
(1,720)	1:155:A:LYS:HD2	1:155:A:LYS:HE2	5	0.13	0.0	0.13
(1,2446)	2:7:B:U:H5	2:7:B:U:H2'	5	0.13	0.02	0.13
(1,48)	1:56:A:ILE:HA	1:56:A:ILE:HG23	5	0.13	0.02	0.13
(1,48)	1:56:A:ILE:HA	1:56:A:ILE:HG21	5	0.13	0.02	0.13
(1,48)	1:56:A:ILE:HA	1:56:A:ILE:HG22	5	0.13	0.02	0.13
(1,1780)	1:102:A:GLU:H	1:102:A:GLU:HB2	5	0.13	0.02	0.13
(1,1936)	1:68:A:VAL:H	1:31:A:ALA:H	5	0.13	0.02	0.13
(1,104)	1:45:A:ILE:HA	1:48:A:LEU:HB3	5	0.12	0.02	0.12
(1,2397)	1:170:A:ILE:H	1:171:A:ARG:H	5	0.12	0.01	0.12
(1,391)	1:22:A:GLN:HE21	1:22:A:GLN:HG2	5	0.12	0.01	0.12
(1,937)	1:24:A:THR:HG23	1:74:A:THR:HA	5	0.12	0.01	0.11
(1,937)	1:24:A:THR:HG22	1:74:A:THR:HA	5	0.12	0.01	0.11
(1,937)	1:24:A:THR:HG21	1:74:A:THR:HA	5	0.12	0.01	0.11
(1,2399)	1:172:A:ASP:H	1:173:A:ILE:H	5	0.11	0.0	0.11
(1,586)	1:107:A:THR:HB	1:107:A:THR:HG23	5	0.11	0.01	0.11
(1,586)	1:107:A:THR:HB	1:107:A:THR:HG22	5	0.11	0.01	0.11
(1,1968)	1:131:A:GLN:HE22	1:131:A:GLN:HG3	5	0.1	0.0	0.1
(1,1322)	1:155:A:LYS:H	1:154:A:VAL:HG22	4	1.64	0.17	1.62
(1,1322)	1:155:A:LYS:H	1:154:A:VAL:HG23	4	1.64	0.17	1.62
(1,313)	1:154:A:VAL:H	1:154:A:VAL:HG11	4	0.98	0.56	0.99
(1,313)	1:154:A:VAL:H	1:154:A:VAL:HG12	4	0.98	0.56	0.99
(1,83)	1:90:A:LYS:HA	1:90:A:LYS:HD2	4	0.95	0.02	0.95
(1,1053)	1:108:A:HIS:HD2	1:106:A:GLU:HG2	4	0.9	0.23	0.8
(1,517)	1:142:A:ARG:HD2	1:142:A:ARG:HA	4	0.65	0.35	0.72
(1,962)	1:178:A:LYS:HE2	1:175:A:ALA:HA	4	0.63	0.32	0.72
(1,82)	1:154:A:VAL:HA	1:154:A:VAL:HG22	4	0.58	0.3	0.57
(1,82)	1:154:A:VAL:HA	1:154:A:VAL:HG21	4	0.58	0.3	0.57
(1,82)	1:154:A:VAL:HA	1:154:A:VAL:HG23	4	0.58	0.3	0.57
(1,584)	1:114:A:SER:HA	1:114:A:SER:HB2	4	0.57	0.0	0.57
(1,1045)	1:97:A:PHE:HD1	1:97:A:PHE:HB3	4	0.53	0.12	0.55

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,854)	1:14:A:PHE:HD1	1:14:A:PHE:HB3	4	0.37	0.03	0.38
(1,1505)	1:90:A:LYS:HB2	1:87:A:ILE:HA	4	0.32	0.16	0.28
(1,1626)	1:71:A:VAL:H	1:71:A:VAL:HB	4	0.32	0.1	0.36
(1,2242)	1:18:A:MET:H	1:18:A:MET:HG2	4	0.31	0.12	0.37
(1,1695)	1:97:A:PHE:H	1:97:A:PHE:HB3	4	0.31	0.06	0.28
(1,1566)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	4	0.28	0.17	0.29
(1,1893)	1:23:A:GLU:H	1:74:A:THR:HG21	4	0.28	0.09	0.28
(1,1893)	1:23:A:GLU:H	1:74:A:THR:HG22	4	0.28	0.09	0.28
(1,469)	1:14:A:PHE:H	1:14:A:PHE:HB3	4	0.26	0.03	0.27
(1,396)	1:90:A:LYS:HD3	1:90:A:LYS:HG2	4	0.22	0.01	0.22
(1,700)	1:119:A:VAL:HB	1:170:A:ILE:HG12	4	0.2	0.08	0.2
(1,895)	1:170:A:ILE:HD11	1:166:A:ALA:HB3	4	0.19	0.08	0.18
(1,895)	1:170:A:ILE:HD13	1:166:A:ALA:HB2	4	0.19	0.08	0.18
(1,895)	1:170:A:ILE:HD12	1:166:A:ALA:HB1	4	0.19	0.08	0.18
(1,2124)	1:158:A:GLY:H	1:105:A:LEU:H	4	0.19	0.02	0.19
(1,2248)	1:149:A:ASN:HD22	1:149:A:ASN:H	4	0.18	0.02	0.17
(1,240)	1:87:A:ILE:HD12	1:88:A:TYR:HA	4	0.18	0.04	0.18
(1,240)	1:87:A:ILE:HD13	1:88:A:TYR:HA	4	0.18	0.04	0.18
(1,1216)	1:170:A:ILE:HB	1:170:A:ILE:HD13	4	0.18	0.03	0.18
(1,1216)	1:170:A:ILE:HB	1:170:A:ILE:HD11	4	0.18	0.03	0.18
(1,1216)	1:170:A:ILE:HB	1:170:A:ILE:HD12	4	0.18	0.03	0.18
(1,550)	1:58:A:ILE:HA	1:58:A:ILE:HD13	4	0.17	0.04	0.16
(1,550)	1:58:A:ILE:HA	1:58:A:ILE:HD11	4	0.17	0.04	0.16
(1,550)	1:58:A:ILE:HA	1:58:A:ILE:HD12	4	0.17	0.04	0.16
(1,1444)	1:106:A:GLU:H	1:105:A:LEU:HB2	4	0.16	0.04	0.15
(1,2270)	1:84:A:GLN:HE21	1:84:A:GLN:HB3	4	0.16	0.02	0.16
(1,1117)	1:95:A:ASN:H	1:95:A:ASN:HB2	4	0.16	0.05	0.15
(1,269)	1:51:A:PHE:HD1	1:51:A:PHE:HB2	4	0.16	0.0	0.16
(1,358)	1:111:A:VAL:HA	1:112:A:PRO:HD2	4	0.16	0.02	0.15
(1,1688)	1:34:A:VAL:H	1:33:A:ALA:HB1	4	0.15	0.03	0.16
(1,1688)	1:34:A:VAL:H	1:33:A:ALA:HB2	4	0.15	0.03	0.16
(1,800)	1:67:A:LYS:HA	1:67:A:LYS:HG3	4	0.14	0.03	0.15
(1,1197)	1:172:A:ASP:HB3	1:169:A:LYS:HA	4	0.14	0.02	0.12
(1,1458)	1:110:A:ARG:HD3	1:110:A:ARG:H	4	0.14	0.01	0.14
(1,1605)	1:18:A:MET:HG2	1:18:A:MET:HB3	4	0.14	0.01	0.13
(1,636)	1:152:A:VAL:HB	1:152:A:VAL:HG12	4	0.13	0.02	0.14
(1,636)	1:152:A:VAL:HB	1:152:A:VAL:HG13	4	0.13	0.02	0.14
(1,636)	1:152:A:VAL:HB	1:152:A:VAL:HG11	4	0.13	0.02	0.14
(1,2121)	1:84:A:GLN:HE21	1:84:A:GLN:HG2	4	0.12	0.01	0.12
(1,1902)	1:69:A:ARG:H	1:28:A:PHE:HA	4	0.12	0.03	0.11
(1,2393)	1:166:A:ALA:H	1:167:A:GLN:H	4	0.12	0.02	0.12
(1,1170)	1:38:A:ILE:HA	1:38:A:ILE:HG12	4	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2298)	2:5:B:6MZ:H8	2:6:B:C:H6	4	0.12	0.0	0.12
(1,847)	1:102:A:GLU:HA	1:102:A:GLU:HG3	4	0.11	0.01	0.11
(1,2300)	2:5:B:6MZ:H8	2:4:B:G:H1'	4	0.11	0.01	0.11
(1,848)	1:34:A:VAL:HG11	1:69:A:ARG:HB2	3	2.26	0.46	2.06
(1,848)	1:34:A:VAL:HG12	1:69:A:ARG:HB2	3	2.26	0.46	2.06
(1,848)	1:34:A:VAL:HG13	1:69:A:ARG:HB2	3	2.26	0.46	2.06
(1,911)	1:176:A:GLN:HG3	1:175:A:ALA:HB1	3	1.33	0.03	1.32
(1,911)	1:176:A:GLN:HG3	1:175:A:ALA:HB2	3	1.33	0.03	1.32
(1,1804)	1:35:A:GLY:H	1:34:A:VAL:HG21	3	1.26	0.06	1.22
(1,438)	1:130:A:LEU:HA	1:130:A:LEU:HD11	3	1.22	0.59	1.56
(1,715)	1:25:A:VAL:HG23	1:25:A:VAL:HA	3	0.8	0.47	1.13
(1,715)	1:25:A:VAL:HG21	1:25:A:VAL:HA	3	0.8	0.47	1.13
(1,1399)	1:91:A:LEU:HD22	1:96:A:PHE:HE2	3	0.7	0.81	0.13
(1,1399)	1:91:A:LEU:HD22	1:96:A:PHE:HE1	3	0.7	0.81	0.13
(1,1835)	1:43:A:GLN:H	1:43:A:GLN:HB3	3	0.55	0.05	0.57
(1,1378)	1:174:A:LEU:HA	1:177:A:VAL:HG13	3	0.39	0.04	0.37
(1,1378)	1:174:A:LEU:HA	1:177:A:VAL:HG11	3	0.39	0.04	0.37
(1,500)	1:176:A:GLN:HE22	1:176:A:GLN:HG3	3	0.39	0.0	0.39
(1,470)	1:14:A:PHE:H	1:14:A:PHE:HB2	3	0.37	0.18	0.5
(1,381)	1:101:A:GLU:HB3	1:101:A:GLU:HA	3	0.35	0.12	0.43
(1,577)	1:176:A:GLN:HA	1:176:A:GLN:HG2	3	0.34	0.05	0.33
(1,287)	1:14:A:PHE:HA	1:14:A:PHE:HB2	3	0.32	0.0	0.32
(1,900)	1:90:A:LYS:HE2	1:36:A:ALA:HB3	3	0.3	0.14	0.24
(1,900)	1:90:A:LYS:HE2	1:36:A:ALA:HB1	3	0.3	0.14	0.24
(1,1272)	1:97:A:PHE:HE1	1:103:A:VAL:HG12	3	0.28	0.07	0.27
(1,1272)	1:97:A:PHE:HE1	1:103:A:VAL:HG11	3	0.28	0.07	0.27
(1,1813)	1:33:A:ALA:H	1:34:A:VAL:HG21	3	0.28	0.02	0.27
(1,609)	1:34:A:VAL:HA	1:34:A:VAL:HG12	3	0.25	0.02	0.25
(1,609)	1:34:A:VAL:HA	1:34:A:VAL:HG11	3	0.25	0.02	0.25
(1,1958)	1:95:A:ASN:H	1:91:A:LEU:HB3	3	0.23	0.02	0.24
(1,337)	1:23:A:GLU:H	1:23:A:GLU:HG2	3	0.2	0.0	0.2
(1,970)	1:33:A:ALA:HA	1:96:A:PHE:HE1	3	0.2	0.02	0.19
(1,970)	1:33:A:ALA:HA	1:96:A:PHE:HE2	3	0.2	0.02	0.19
(1,39)	1:119:A:VAL:H	1:119:A:VAL:HG12	3	0.15	0.06	0.11
(1,39)	1:119:A:VAL:H	1:119:A:VAL:HG13	3	0.15	0.06	0.11
(1,39)	1:119:A:VAL:H	1:119:A:VAL:HG11	3	0.15	0.06	0.11
(1,2097)	1:96:A:PHE:H	1:94:A:GLU:HB2	3	0.15	0.04	0.17
(1,1294)	1:57:A:LYS:HB3	1:72:A:VAL:HG22	3	0.15	0.05	0.12
(1,1294)	1:57:A:LYS:HB3	1:72:A:VAL:HG23	3	0.15	0.05	0.12
(1,1334)	1:156:A:ILE:HD13	1:107:A:THR:HB	3	0.14	0.0	0.14
(1,1334)	1:156:A:ILE:HD12	1:107:A:THR:HB	3	0.14	0.0	0.14
(1,152)	1:177:A:VAL:HA	1:177:A:VAL:HB	3	0.14	0.0	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1483)	1:33:A:ALA:HA	1:36:A:ALA:HB3	3	0.14	0.04	0.12
(1,1483)	1:33:A:ALA:HA	1:36:A:ALA:HB2	3	0.14	0.04	0.12
(1,637)	1:87:A:ILE:HB	1:87:A:ILE:HD11	3	0.13	0.01	0.12
(1,637)	1:87:A:ILE:HB	1:87:A:ILE:HD12	3	0.13	0.01	0.12
(1,977)	1:28:A:PHE:HA	1:68:A:VAL:HB	3	0.13	0.02	0.11
(1,1624)	1:72:A:VAL:H	1:58:A:ILE:HA	3	0.13	0.01	0.13
(1,1310)	1:136:A:ALA:H	1:135:A:ALA:HA	3	0.12	0.02	0.11
(1,456)	1:61:A:PRO:HD2	1:61:A:PRO:HG2	3	0.12	0.01	0.13
(1,1148)	1:140:A:VAL:HG23	1:140:A:VAL:HA	3	0.12	0.0	0.12
(1,1148)	1:140:A:VAL:HG22	1:140:A:VAL:HA	3	0.12	0.0	0.12
(1,2311)	2:5:B:6MZ:H3'	2:6:B:C:H5	3	0.11	0.0	0.11
(1,406)	1:103:A:VAL:H	1:103:A:VAL:HG11	2	1.76	0.09	1.76
(1,406)	1:103:A:VAL:H	1:103:A:VAL:HG12	2	1.76	0.09	1.76
(1,1364)	1:48:A:LEU:HD13	1:86:A:ARG:HD3	2	1.27	0.46	1.27
(1,1364)	1:48:A:LEU:HD12	1:86:A:ARG:HD3	2	1.27	0.46	1.27
(1,712)	1:88:A:TYR:HD1	1:103:A:VAL:HG23	2	1.23	0.09	1.23
(1,712)	1:88:A:TYR:HD1	1:103:A:VAL:HG22	2	1.23	0.09	1.23
(1,1611)	1:61:A:PRO:HD2	1:61:A:PRO:HB2	2	1.09	0.0	1.09
(1,1010)	1:127:A:VAL:HA	1:127:A:VAL:HG22	2	0.64	0.33	0.64
(1,2276)	1:63:A:THR:H	1:66:A:SER:HB2	2	0.63	0.02	0.63
(1,887)	1:29:A:ILE:HD11	1:37:A:ILE:HG13	2	0.62	0.42	0.62
(1,887)	1:29:A:ILE:HD13	1:37:A:ILE:HG13	2	0.62	0.42	0.62
(1,2175)	1:26:A:HIS:H	1:25:A:VAL:HG11	2	0.61	0.31	0.61
(1,2175)	1:26:A:HIS:H	1:25:A:VAL:HG13	2	0.61	0.31	0.61
(1,1673)	1:92:A:LYS:H	1:103:A:VAL:HG12	2	0.6	0.03	0.6
(1,1673)	1:92:A:LYS:H	1:103:A:VAL:HG11	2	0.6	0.03	0.6
(1,529)	1:167:A:GLN:HE22	1:25:A:VAL:HG13	2	0.58	0.46	0.58
(1,529)	1:167:A:GLN:HE22	1:25:A:VAL:HG11	2	0.58	0.46	0.58
(1,19)	1:56:A:ILE:H	1:56:A:ILE:HD12	2	0.55	0.02	0.55
(1,19)	1:56:A:ILE:H	1:56:A:ILE:HD13	2	0.55	0.02	0.55
(1,404)	1:102:A:GLU:H	1:101:A:GLU:HB2	2	0.5	0.14	0.5
(1,92)	1:48:A:LEU:HA	1:48:A:LEU:HG	2	0.48	0.03	0.48
(1,992)	1:142:A:ARG:HD2	1:142:A:ARG:HB2	2	0.46	0.03	0.46
(1,1533)	1:120:A:ILE:HG22	1:120:A:ILE:HA	2	0.39	0.04	0.39
(1,1533)	1:120:A:ILE:HG23	1:120:A:ILE:HA	2	0.39	0.04	0.39
(1,488)	1:100:A:LYS:HA	1:100:A:LYS:HB3	2	0.38	0.01	0.38
(1,1463)	1:148:A:GLU:H	1:148:A:GLU:HG3	2	0.32	0.01	0.32
(1,1914)	1:100:A:LYS:H	1:100:A:LYS:HG2	2	0.31	0.03	0.31
(1,1503)	1:78:A:GLU:H	1:78:A:GLU:HG2	2	0.29	0.0	0.29
(1,1570)	1:56:A:ILE:HD13	1:83:A:ALA:HB1	2	0.29	0.0	0.29
(1,1570)	1:56:A:ILE:HD11	1:83:A:ALA:HB2	2	0.29	0.0	0.29
(1,1072)	1:88:A:TYR:HE1	1:105:A:LEU:HB2	2	0.28	0.08	0.28

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,393)	1:79:A:ALA:H	1:78:A:GLU:HG2	2	0.27	0.03	0.27
(1,1)	1:108:A:HIS:H	1:107:A:THR:HG21	2	0.26	0.03	0.26
(1,2079)	1:143:A:ASP:H	1:143:A:ASP:HB3	2	0.25	0.13	0.25
(1,2208)	1:121:A:GLY:H	1:120:A:ILE:HB	2	0.25	0.13	0.25
(1,190)	1:151:A:GLN:HA	1:151:A:GLN:HG3	2	0.24	0.1	0.24
(1,724)	1:154:A:VAL:HA	1:154:A:VAL:HB	2	0.24	0.01	0.24
(1,40)	1:95:A:ASN:HD21	1:95:A:ASN:HB3	2	0.24	0.0	0.24
(1,1443)	1:104:A:LYS:HB2	1:104:A:LYS:HE3	2	0.24	0.08	0.24
(1,1694)	1:97:A:PHE:H	1:96:A:PHE:HB2	2	0.22	0.01	0.22
(1,1854)	1:171:A:ARG:H	1:171:A:ARG:HG3	2	0.22	0.02	0.22
(1,1839)	1:93:A:GLU:H	1:93:A:GLU:HG2	2	0.22	0.02	0.22
(1,1839)	1:93:A:GLU:H	1:93:A:GLU:HG3	2	0.22	0.02	0.22
(1,2011)	1:12:A:ALA:H	1:12:A:ALA:HB2	2	0.21	0.06	0.21
(1,2011)	1:12:A:ALA:H	1:12:A:ALA:HB3	2	0.21	0.06	0.21
(1,402)	1:167:A:GLN:HG3	1:156:A:ILE:HD12	2	0.2	0.06	0.2
(1,1705)	1:66:A:SER:H	1:66:A:SER:HB2	2	0.2	0.0	0.2
(1,426)	1:87:A:ILE:HA	1:87:A:ILE:HG22	2	0.19	0.04	0.19
(1,426)	1:87:A:ILE:HA	1:87:A:ILE:HG23	2	0.19	0.04	0.19
(1,773)	1:167:A:GLN:HG2	1:156:A:ILE:HD13	2	0.19	0.06	0.19
(1,1082)	1:25:A:VAL:H	1:25:A:VAL:HB	2	0.19	0.06	0.19
(1,2307)	2:1:B:U:H6	2:2:B:C:H5	2	0.19	0.05	0.19
(1,2325)	1:120:A:ILE:HG21	2:3:B:G:H4'	2	0.19	0.05	0.19
(1,2325)	1:120:A:ILE:HG22	2:3:B:G:H4'	2	0.19	0.05	0.19
(1,2325)	1:120:A:ILE:HG23	2:3:B:G:H4'	2	0.19	0.05	0.19
(1,236)	1:174:A:LEU:HD23	1:115:A:ALA:HB1	2	0.17	0.0	0.17
(1,236)	1:174:A:LEU:HD21	1:115:A:ALA:HB1	2	0.17	0.0	0.17
(1,1023)	1:161:A:TYR:HD1	1:161:A:TYR:HA	2	0.17	0.05	0.17
(1,351)	1:59:A:ALA:HB3	1:60:A:PRO:HD2	2	0.16	0.02	0.16
(1,351)	1:59:A:ALA:HB1	1:60:A:PRO:HD2	2	0.16	0.02	0.16
(1,508)	1:100:A:LYS:H	1:100:A:LYS:HA	2	0.16	0.01	0.16
(1,2361)	1:138:A:VAL:HA	1:156:A:ILE:HA	2	0.16	0.04	0.16
(1,431)	1:139:A:VAL:H	1:139:A:VAL:HG23	2	0.15	0.03	0.15
(1,431)	1:139:A:VAL:H	1:139:A:VAL:HG22	2	0.15	0.03	0.15
(1,1741)	1:98:A:GLY:H	1:98:A:GLY:HA3	2	0.15	0.0	0.15
(1,931)	1:157:A:ILE:HD13	1:106:A:GLU:HA	2	0.14	0.0	0.14
(1,931)	1:157:A:ILE:HD11	1:106:A:GLU:HA	2	0.14	0.0	0.14
(1,1442)	1:104:A:LYS:HB3	1:104:A:LYS:HE3	2	0.14	0.02	0.14
(1,2209)	1:119:A:VAL:H	1:116:A:ALA:HA	2	0.14	0.02	0.14
(1,2228)	1:128:A:ASN:H	1:125:A:LYS:HA	2	0.14	0.02	0.14
(1,2344)	2:2:B:C:H6	2:1:B:U:H3'	2	0.13	0.03	0.13
(1,387)	1:173:A:ILE:HA	1:173:A:ILE:HG22	2	0.12	0.02	0.12
(1,806)	1:93:A:GLU:HB3	1:93:A:GLU:HA	2	0.12	0.01	0.12

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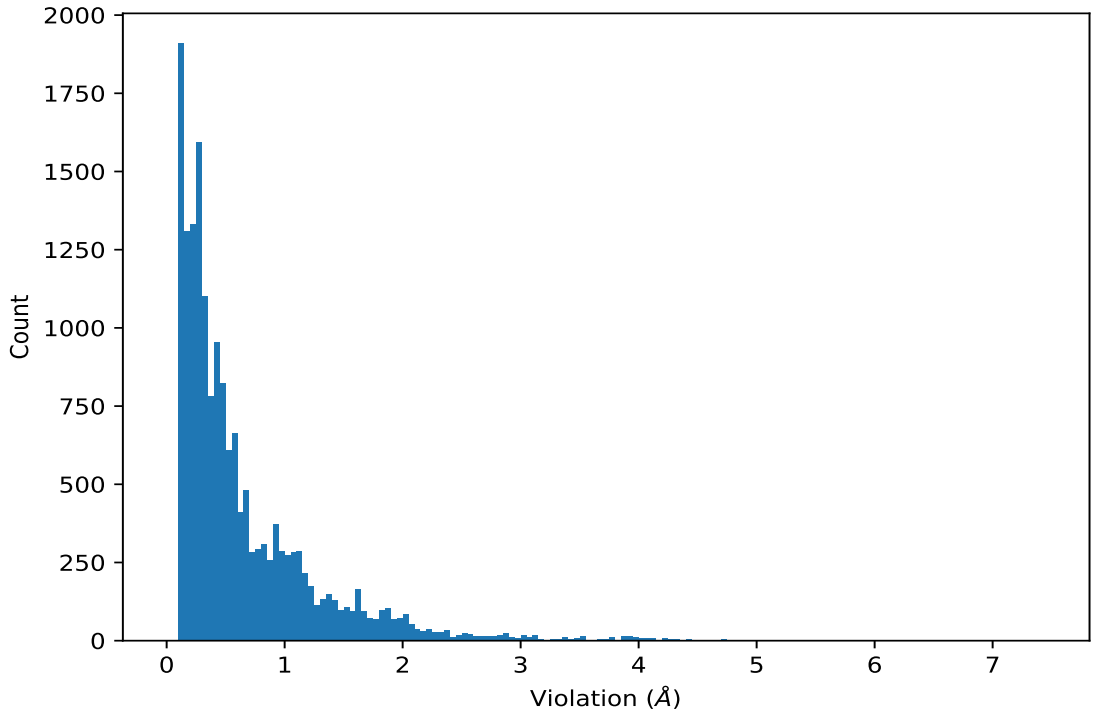
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,430)	1:93:A:GLU:HG2	1:93:A:GLU:HB2	2	0.12	0.02	0.12
(1,2342)	2:2:B:C:H6	2:2:B:C:H5'	2	0.12	0.02	0.12
(1,679)	1:58:A:ILE:HG13	1:58:A:ILE:HD12	2	0.12	0.01	0.12
(1,679)	1:58:A:ILE:HG13	1:58:A:ILE:HD11	2	0.12	0.01	0.12
(1,1092)	1:154:A:VAL:H	1:154:A:VAL:HB	2	0.12	0.0	0.12
(1,1460)	1:154:A:VAL:H	1:153:A:ILE:HB	2	0.12	0.01	0.12
(1,1798)	1:148:A:GLU:H	1:147:A:ASP:HB3	2	0.12	0.02	0.12
(1,1267)	1:172:A:ASP:HB2	1:169:A:LYS:HA	2	0.12	0.0	0.12
(1,2379)	1:168:A:ARG:HA	1:171:A:ARG:H	2	0.12	0.0	0.12
(1,2140)	1:149:A:ASN:H	1:150:A:GLU:H	2	0.11	0.01	0.11
(1,2367)	1:26:A:HIS:HA	1:72:A:VAL:HA	2	0.11	0.0	0.11
(1,952)	1:131:A:GLN:HB2	1:128:A:ASN:HA	2	0.11	0.0	0.11
(1,1913)	1:151:A:GLN:H	1:151:A:GLN:HG3	2	0.11	0.0	0.11
(1,2134)	1:63:A:THR:H	1:63:A:THR:HG22	2	0.11	0.0	0.11
(1,2134)	1:63:A:THR:H	1:63:A:THR:HG23	2	0.11	0.0	0.11
(1,1928)	1:96:A:PHE:H	1:91:A:LEU:HB3	2	0.1	0.0	0.1
(1,2380)	1:169:A:LYS:HA	1:172:A:ASP:H	2	0.1	0.0	0.1

[1]Number of violated models, [2]Standard deviation

9.5 All violated distance restraints (i)

9.5.1 Histogram : Distribution of distance violations (i)

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



9.5.2 Table : All distance violations (i)

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	16	7.44
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	11	7.11
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	10	7.05
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	20	6.93
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	13	6.2
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	12	6.12
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	8	6.04
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	14	6.02
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	7	6.02
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	15	5.97
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	17	5.94
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	15	5.86
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	1	5.85
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	19	5.69
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	14	5.68
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	9	5.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	6	5.61
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	3	5.6
(1,886)	1:27:A:VAL:HG11	1:73:A:ILE:HG23	17	5.56
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	4	5.56
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	17	5.54
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	2	5.48
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	1	5.42
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	10	5.41
(1,886)	1:27:A:VAL:HG11	1:73:A:ILE:HG21	19	5.33
(1,886)	1:27:A:VAL:HG11	1:73:A:ILE:HG22	12	5.27
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	5	5.27
(1,400)	1:138:A:VAL:HG22	1:154:A:VAL:HG21	6	5.26
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	18	5.19
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	3	5.15
(1,528)	1:103:A:VAL:HG21	1:159:A:HIS:HD2	16	5.11
(1,886)	1:27:A:VAL:HG13	1:73:A:ILE:HG21	15	5.1
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	6	5.08
(1,886)	1:27:A:VAL:HG12	1:73:A:ILE:HG21	16	5.05
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	20	5.04
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	20	5.02
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	19	4.94
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	14	4.9
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	18	4.9
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	13	4.89
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	17	4.87
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	16	4.85
(1,886)	1:27:A:VAL:HG12	1:73:A:ILE:HG21	20	4.82
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	18	4.79
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	15	4.75
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	16	4.73
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	14	4.72
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	6	4.71
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	11	4.7
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	12	4.7
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	10	4.7
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	5	4.68
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	2	4.65
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	8	4.64
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD11	17	4.6
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD13	18	4.59
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD11	19	4.59
(1,710)	1:94:A:GLU:HA	1:90:A:LYS:HB2	20	4.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	11	4.49
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	1	4.45
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD13	13	4.43
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD12	15	4.43
(1,690)	1:38:A:ILE:HG23	1:58:A:ILE:HD12	5	4.43
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD13	14	4.4
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD13	16	4.4
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	13	4.39
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	4	4.37
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD13	17	4.36
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD11	20	4.35
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	14	4.35
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD13	12	4.34
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	7	4.34
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	12	4.29
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	18	4.26
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	13	4.26
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	9	4.26
(1,690)	1:38:A:ILE:HG23	1:58:A:ILE:HD11	1	4.24
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	19	4.24
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD11	12	4.23
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	11	4.21
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	19	4.21
(1,690)	1:38:A:ILE:HG23	1:58:A:ILE:HD13	19	4.2
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG22	16	4.2
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD11	13	4.18
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	2	4.18
(1,1555)	1:48:A:LEU:HD23	1:87:A:ILE:HG21	12	4.17
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	12	4.14
(1,690)	1:38:A:ILE:HG21	1:58:A:ILE:HD13	13	4.14
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	14	4.14
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD12	20	4.13
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	15	4.13
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	4	4.13
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG13	11	4.13
(1,1555)	1:48:A:LEU:HD22	1:87:A:ILE:HG23	19	4.12
(1,1555)	1:48:A:LEU:HD21	1:87:A:ILE:HG21	20	4.1
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	12	4.1
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	12	4.08
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	16	4.07
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	8	4.06
(1,690)	1:38:A:ILE:HG23	1:58:A:ILE:HD11	17	4.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	17	4.06
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	17	4.05
(1,1555)	1:48:A:LEU:HD21	1:87:A:ILE:HG22	14	4.04
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	15	4.04
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	20	4.04
(1,1555)	1:48:A:LEU:HD22	1:87:A:ILE:HG23	15	4.03
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	19	4.03
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	18	4.03
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	7	4.02
(1,690)	1:38:A:ILE:HG22	1:58:A:ILE:HD11	20	4.02
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	4	3.99
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	7	3.99
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD13	15	3.98
(1,528)	1:103:A:VAL:HG23	1:159:A:HIS:HD2	18	3.98
(1,1555)	1:48:A:LEU:HD21	1:87:A:ILE:HG22	16	3.97
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	15	3.97
(1,690)	1:38:A:ILE:HG23	1:58:A:ILE:HD11	11	3.97
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG11	10	3.97
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	12	3.96
(1,690)	1:38:A:ILE:HG21	1:58:A:ILE:HD11	8	3.96
(1,690)	1:38:A:ILE:HG23	1:58:A:ILE:HD11	12	3.96
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG12	4	3.96
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	16	3.94
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG12	17	3.94
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG12	19	3.94
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	2	3.93
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG13	15	3.93
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG13	5	3.93
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG11	9	3.93
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG11	18	3.93
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD12	19	3.92
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG11	19	3.92
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	9	3.91
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	17	3.91
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG11	2	3.91
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG12	8	3.9
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG11	14	3.9
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG13	15	3.9
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG11	16	3.9
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG11	20	3.9
(1,886)	1:27:A:VAL:HG12	1:73:A:ILE:HG21	11	3.89
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG12	3	3.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG11	13	3.89
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	5	3.88
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG11	17	3.88
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG13	1	3.87
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG13	6	3.87
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG12	7	3.87
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG13	11	3.86
(1,1555)	1:48:A:LEU:HD22	1:87:A:ILE:HG21	17	3.85
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	1	3.83
(1,690)	1:38:A:ILE:HG23	1:58:A:ILE:HD13	10	3.82
(1,60)	1:153:A:ILE:HA	1:152:A:VAL:HG13	12	3.82
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	18	3.8
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	3	3.79
(1,690)	1:38:A:ILE:HG22	1:58:A:ILE:HD13	7	3.79
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	10	3.77
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	11	3.77
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	14	3.77
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	9	3.77
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	1	3.76
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG13	16	3.76
(1,690)	1:38:A:ILE:HG23	1:58:A:ILE:HD12	2	3.75
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	9	3.74
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	8	3.74
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	6	3.71
(1,690)	1:38:A:ILE:HG21	1:58:A:ILE:HD12	3	3.7
(1,690)	1:38:A:ILE:HG22	1:58:A:ILE:HD13	6	3.7
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	6	3.69
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD13	16	3.67
(1,713)	1:94:A:GLU:HG2	1:97:A:PHE:HE1	3	3.66
(1,690)	1:38:A:ILE:HG21	1:58:A:ILE:HD13	4	3.66
(1,690)	1:38:A:ILE:HG23	1:58:A:ILE:HD13	9	3.66
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	5	3.63
(1,690)	1:38:A:ILE:HG21	1:58:A:ILE:HD11	15	3.56
(1,239)	1:58:A:ILE:HD13	1:45:A:ILE:HG22	16	3.55
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	2	3.54
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	10	3.53
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	5	3.53
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	17	3.53
(1,1555)	1:48:A:LEU:HD22	1:87:A:ILE:HG21	13	3.52
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	7	3.52
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	16	3.52
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	13	3.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	17	3.5
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	8	3.5
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	8	3.5
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	14	3.5
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	19	3.49
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	20	3.49
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	11	3.48
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	15	3.47
(1,239)	1:58:A:ILE:HD12	1:45:A:ILE:HG22	1	3.46
(1,881)	1:112:A:PRO:HB3	1:178:A:LYS:HG3	3	3.45
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	19	3.45
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	4	3.44
(1,318)	1:112:A:PRO:HG2	1:150:A:GLU:HG2	18	3.44
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	10	3.43
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG13	8	3.41
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	5	3.4
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD12	18	3.4
(1,239)	1:58:A:ILE:HD11	1:45:A:ILE:HG23	9	3.4
(1,239)	1:58:A:ILE:HD11	1:45:A:ILE:HG23	10	3.4
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD11	14	3.39
(1,690)	1:38:A:ILE:HG21	1:58:A:ILE:HD11	14	3.39
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG13	7	3.38
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	13	3.37
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	3	3.37
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG11	12	3.36
(1,1600)	1:138:A:VAL:HG13	1:127:A:VAL:HG23	5	3.32
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	20	3.31
(1,239)	1:58:A:ILE:HD11	1:45:A:ILE:HG21	6	3.31
(1,239)	1:58:A:ILE:HD11	1:45:A:ILE:HG21	8	3.31
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	12	3.3
(1,729)	1:29:A:ILE:HD12	1:34:A:VAL:HG12	18	3.27
(1,239)	1:58:A:ILE:HD13	1:45:A:ILE:HG23	2	3.27
(1,239)	1:58:A:ILE:HD11	1:45:A:ILE:HG21	4	3.27
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	13	3.24
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG11	5	3.23
(1,239)	1:58:A:ILE:HD13	1:45:A:ILE:HG22	5	3.21
(1,1555)	1:48:A:LEU:HD21	1:87:A:ILE:HG22	18	3.19
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG21	14	3.19
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG21	17	3.19
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	18	3.19
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	16	3.15
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG23	20	3.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1041)	1:91:A:LEU:HD23	1:96:A:PHE:HD1	6	3.14
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	13	3.14
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	11	3.13
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD12	11	3.13
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG23	9	3.13
(1,239)	1:58:A:ILE:HD13	1:45:A:ILE:HG23	3	3.13
(1,1308)	1:154:A:VAL:HG11	1:153:A:ILE:HA	8	3.12
(1,1036)	1:88:A:TYR:HD1	1:84:A:GLN:HB2	20	3.12
(1,239)	1:58:A:ILE:HD13	1:45:A:ILE:HG21	7	3.12
(1,1441)	1:154:A:VAL:HG21	1:140:A:VAL:HA	12	3.11
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG22	2	3.11
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	14	3.1
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	15	3.1
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	20	3.1
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	1	3.1
(1,1041)	1:91:A:LEU:HD23	1:96:A:PHE:HD1	9	3.09
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	6	3.08
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG22	13	3.08
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG22	5	3.08
(1,1041)	1:91:A:LEU:HD22	1:96:A:PHE:HD1	3	3.08
(1,1041)	1:91:A:LEU:HD23	1:96:A:PHE:HD1	4	3.08
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG21	7	3.06
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG23	15	3.06
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	20	3.06
(1,400)	1:138:A:VAL:HG22	1:154:A:VAL:HG21	14	3.06
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	19	3.05
(1,1041)	1:91:A:LEU:HD22	1:96:A:PHE:HD1	13	3.05
(1,886)	1:27:A:VAL:HG13	1:73:A:ILE:HG23	5	3.05
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD13	18	3.04
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG21	6	3.04
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	11	3.04
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	13	3.03
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG21	7	3.03
(1,690)	1:38:A:ILE:HG22	1:58:A:ILE:HD12	16	3.03
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	14	3.03
(1,1242)	1:25:A:VAL:HG13	1:26:A:HIS:HA	10	3.02
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	15	3.02
(1,691)	1:103:A:VAL:HG21	1:105:A:LEU:HD23	20	3.02
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	12	3.02
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD12	14	3.01
(1,1308)	1:154:A:VAL:HG11	1:153:A:ILE:HA	6	3.01
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG23	3	3.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	17	3.0
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	12	3.0
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG12	20	2.99
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	7	2.97
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG23	8	2.97
(1,886)	1:27:A:VAL:HG12	1:73:A:ILE:HG22	8	2.96
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG23	19	2.96
(1,238)	1:48:A:LEU:HD23	1:83:A:ALA:HB3	9	2.96
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	20	2.95
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	19	2.94
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	19	2.94
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	19	2.94
(1,932)	1:109:A:ILE:HD13	1:107:A:THR:HG23	7	2.94
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	19	2.93
(1,239)	1:58:A:ILE:HD12	1:45:A:ILE:HG21	18	2.92
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG22	1	2.91
(1,1041)	1:91:A:LEU:HD22	1:96:A:PHE:HD1	5	2.91
(1,1041)	1:91:A:LEU:HD22	1:96:A:PHE:HD1	18	2.91
(1,932)	1:109:A:ILE:HD12	1:107:A:THR:HG21	8	2.91
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	12	2.9
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG22	4	2.9
(1,848)	1:34:A:VAL:HG12	1:69:A:ARG:HB2	18	2.9
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB3	9	2.9
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	6	2.89
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	20	2.89
(1,1041)	1:91:A:LEU:HD23	1:96:A:PHE:HD1	2	2.89
(1,932)	1:109:A:ILE:HD11	1:107:A:THR:HG23	5	2.89
(1,1426)	1:56:A:ILE:HD13	1:48:A:LEU:HB2	2	2.88
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	12	2.88
(1,400)	1:138:A:VAL:HG23	1:154:A:VAL:HG23	16	2.88
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG3	15	2.87
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	12	2.87
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	15	2.87
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	9	2.87
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	11	2.87
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	18	2.86
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	3	2.86
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	3	2.86
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	6	2.86
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	17	2.85
(1,1041)	1:91:A:LEU:HD23	1:96:A:PHE:HD1	19	2.85
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	16	2.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1041)	1:91:A:LEU:HD21	1:96:A:PHE:HD1	20	2.84
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	4	2.84
(1,239)	1:58:A:ILE:HD12	1:45:A:ILE:HG21	14	2.84
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG12	13	2.84
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	18	2.83
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB2	3	2.83
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB1	4	2.83
(1,239)	1:58:A:ILE:HD12	1:45:A:ILE:HG22	11	2.83
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	1	2.82
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	13	2.82
(1,1441)	1:154:A:VAL:HG23	1:140:A:VAL:HA	15	2.82
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	1	2.82
(1,932)	1:109:A:ILE:HD11	1:107:A:THR:HG22	17	2.82
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB1	6	2.82
(1,1041)	1:91:A:LEU:HD22	1:96:A:PHE:HD1	7	2.81
(1,1041)	1:91:A:LEU:HD23	1:96:A:PHE:HD1	8	2.81
(1,932)	1:109:A:ILE:HD12	1:107:A:THR:HG21	13	2.81
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	19	2.8
(1,1041)	1:91:A:LEU:HD22	1:96:A:PHE:HD1	12	2.8
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	20	2.79
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	11	2.79
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	4	2.79
(1,886)	1:27:A:VAL:HG11	1:73:A:ILE:HG22	13	2.79
(1,932)	1:109:A:ILE:HD13	1:107:A:THR:HG22	14	2.78
(1,400)	1:138:A:VAL:HG22	1:154:A:VAL:HG23	8	2.78
(1,932)	1:109:A:ILE:HD11	1:107:A:THR:HG22	11	2.77
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG13	18	2.77
(1,729)	1:29:A:ILE:HD13	1:34:A:VAL:HG11	13	2.76
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD11	11	2.75
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	2	2.75
(1,1041)	1:91:A:LEU:HD23	1:96:A:PHE:HD1	10	2.74
(1,1041)	1:91:A:LEU:HD23	1:96:A:PHE:HD1	14	2.73
(1,1017)	1:173:A:ILE:HG21	1:126:A:THR:HG23	20	2.73
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB2	18	2.73
(1,1041)	1:91:A:LEU:HD23	1:96:A:PHE:HD1	1	2.72
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	17	2.72
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	4	2.71
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	17	2.71
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD11	15	2.7
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD13	19	2.7
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG21	10	2.7
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	5	2.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,932)	1:109:A:ILE:HD11	1:107:A:THR:HG21	12	2.7
(1,932)	1:109:A:ILE:HD13	1:107:A:THR:HG22	19	2.7
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	8	2.69
(1,1041)	1:91:A:LEU:HD21	1:96:A:PHE:HD1	15	2.69
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	9	2.69
(1,979)	1:32:A:GLN:HG2	1:96:A:PHE:HD1	17	2.69
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	18	2.69
(1,239)	1:58:A:ILE:HD12	1:45:A:ILE:HG21	20	2.69
(1,1015)	1:170:A:ILE:HD11	1:130:A:LEU:HD13	1	2.68
(1,239)	1:58:A:ILE:HD11	1:45:A:ILE:HG23	12	2.68
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	14	2.67
(1,1242)	1:25:A:VAL:HG11	1:26:A:HIS:HA	16	2.67
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	7	2.67
(1,932)	1:109:A:ILE:HD11	1:107:A:THR:HG21	20	2.67
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	2	2.66
(1,1041)	1:91:A:LEU:HD22	1:96:A:PHE:HD1	11	2.66
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	5	2.66
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	2	2.65
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	6	2.65
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	9	2.64
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG13	16	2.64
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	5	2.64
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	9	2.64
(1,921)	1:105:A:LEU:HD11	1:97:A:PHE:HE1	6	2.63
(1,239)	1:58:A:ILE:HD12	1:45:A:ILE:HG21	15	2.62
(1,1041)	1:91:A:LEU:HD23	1:96:A:PHE:HD1	16	2.61
(1,239)	1:58:A:ILE:HD13	1:45:A:ILE:HG22	13	2.61
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG23	16	2.6
(1,239)	1:58:A:ILE:HD13	1:45:A:ILE:HG22	19	2.6
(1,226)	1:48:A:LEU:HD11	1:87:A:ILE:HA	11	2.6
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG22	18	2.59
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG21	12	2.59
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	14	2.59
(1,597)	1:54:A:ALA:HB1	1:55:A:SER:HB2	16	2.59
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	8	2.58
(1,1015)	1:170:A:ILE:HD13	1:130:A:LEU:HD11	20	2.58
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB3	2	2.58
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	3	2.57
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	14	2.57
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	16	2.57
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	1	2.57
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG13	10	2.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	7	2.56
(1,932)	1:109:A:ILE:HD11	1:107:A:THR:HG22	15	2.56
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	11	2.56
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	13	2.56
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	18	2.56
(1,886)	1:27:A:VAL:HG11	1:73:A:ILE:HG21	14	2.56
(1,597)	1:54:A:ALA:HB2	1:55:A:SER:HB2	9	2.56
(1,597)	1:54:A:ALA:HB2	1:55:A:SER:HB2	10	2.56
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	1	2.56
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	13	2.55
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	12	2.55
(1,597)	1:54:A:ALA:HB1	1:55:A:SER:HB2	6	2.55
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	16	2.54
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	16	2.54
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	16	2.54
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	20	2.54
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	20	2.54
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	20	2.54
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	5	2.54
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD13	20	2.54
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	13	2.54
(1,1017)	1:173:A:ILE:HG22	1:126:A:THR:HG23	7	2.54
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	17	2.54
(1,597)	1:54:A:ALA:HB1	1:55:A:SER:HB2	5	2.54
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	15	2.53
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	8	2.52
(1,597)	1:54:A:ALA:HB3	1:55:A:SER:HB2	7	2.52
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	10	2.51
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	18	2.51
(1,729)	1:29:A:ILE:HD11	1:34:A:VAL:HG12	10	2.51
(1,525)	1:105:A:LEU:HD12	1:97:A:PHE:HD1	20	2.51
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	11	2.5
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	16	2.49
(1,2000)	1:31:A:ALA:H	1:29:A:ILE:HG13	10	2.49
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	4	2.49
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB2	5	2.49
(1,597)	1:54:A:ALA:HB1	1:55:A:SER:HB2	2	2.49
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	19	2.48
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG13	13	2.48
(1,597)	1:54:A:ALA:HB3	1:55:A:SER:HB2	13	2.48
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	15	2.47
(1,528)	1:103:A:VAL:HG23	1:159:A:HIS:HD2	15	2.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG13	8	2.47
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	9	2.47
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	2	2.46
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG23	5	2.46
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	6	2.45
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	13	2.45
(1,1664)	1:101:A:GLU:H	1:100:A:LYS:HG2	13	2.44
(1,921)	1:105:A:LEU:HD11	1:97:A:PHE:HE1	3	2.44
(1,597)	1:54:A:ALA:HB1	1:55:A:SER:HB2	20	2.44
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG23	13	2.43
(1,1017)	1:173:A:ILE:HG21	1:126:A:THR:HG21	1	2.42
(1,239)	1:58:A:ILE:HD11	1:45:A:ILE:HG21	17	2.42
(1,238)	1:48:A:LEU:HD21	1:83:A:ALA:HB3	11	2.42
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	5	2.41
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	12	2.41
(1,226)	1:48:A:LEU:HD12	1:87:A:ILE:HA	19	2.41
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	11	2.4
(1,1015)	1:170:A:ILE:HD13	1:130:A:LEU:HD13	2	2.4
(1,686)	1:174:A:LEU:HD22	1:171:A:ARG:HA	18	2.4
(1,226)	1:48:A:LEU:HD13	1:87:A:ILE:HA	14	2.4
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG11	18	2.39
(1,1015)	1:170:A:ILE:HD12	1:130:A:LEU:HD13	12	2.39
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	12	2.39
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	13	2.39
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	14	2.39
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	17	2.39
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	18	2.39
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	19	2.39
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG12	1	2.39
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG12	13	2.39
(1,686)	1:174:A:LEU:HD22	1:171:A:ARG:HA	11	2.38
(1,686)	1:174:A:LEU:HD22	1:171:A:ARG:HA	13	2.38
(1,597)	1:54:A:ALA:HB3	1:55:A:SER:HB2	3	2.38
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG13	19	2.38
(1,1574)	1:103:A:VAL:HG12	1:92:A:LYS:HA	16	2.37
(1,1017)	1:173:A:ILE:HG21	1:126:A:THR:HG22	13	2.37
(1,686)	1:174:A:LEU:HD21	1:171:A:ARG:HA	3	2.37
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG11	6	2.37
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG11	7	2.37
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD13	20	2.36
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	2	2.36
(1,932)	1:109:A:ILE:HD13	1:107:A:THR:HG22	16	2.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,686)	1:174:A:LEU:HD21	1:171:A:ARG:HA	9	2.36
(1,686)	1:174:A:LEU:HD23	1:171:A:ARG:HA	17	2.36
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG23	2	2.36
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG12	16	2.36
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG11	17	2.36
(1,686)	1:174:A:LEU:HD21	1:171:A:ARG:HA	12	2.35
(1,407)	1:120:A:ILE:HG21	1:117:A:GLY:HA3	13	2.35
(1,1574)	1:103:A:VAL:HG11	1:92:A:LYS:HA	18	2.34
(1,1535)	1:170:A:ILE:HD11	1:170:A:ILE:HG22	4	2.34
(1,1063)	1:103:A:VAL:HG22	1:97:A:PHE:HE1	3	2.34
(1,1017)	1:173:A:ILE:HG21	1:126:A:THR:HG23	11	2.34
(1,686)	1:174:A:LEU:HD22	1:171:A:ARG:HA	15	2.34
(1,226)	1:48:A:LEU:HD12	1:87:A:ILE:HA	1	2.34
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	1	2.33
(1,893)	1:48:A:LEU:HD12	1:86:A:ARG:HG2	11	2.33
(1,690)	1:38:A:ILE:HG22	1:58:A:ILE:HD11	18	2.33
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG22	1	2.33
(1,407)	1:120:A:ILE:HG22	1:117:A:GLY:HA3	17	2.33
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG13	2	2.33
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG12	11	2.33
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG12	15	2.33
(1,1537)	1:91:A:LEU:HD23	1:96:A:PHE:HB2	17	2.32
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	11	2.32
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	15	2.32
(1,226)	1:48:A:LEU:HD13	1:87:A:ILE:HA	4	2.32
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG12	4	2.32
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG13	14	2.32
(1,1386)	1:87:A:ILE:HD12	1:105:A:LEU:HD22	20	2.31
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	18	2.31
(1,1017)	1:173:A:ILE:HG22	1:126:A:THR:HG21	12	2.31
(1,827)	1:91:A:LEU:HD23	1:30:A:PRO:HG3	17	2.31
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG21	18	2.31
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG12	5	2.31
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	13	2.3
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	8	2.3
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	16	2.3
(1,686)	1:174:A:LEU:HD21	1:171:A:ARG:HA	19	2.3
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG13	18	2.3
(1,686)	1:174:A:LEU:HD21	1:171:A:ARG:HA	20	2.29
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG11	20	2.29
(1,686)	1:174:A:LEU:HD22	1:171:A:ARG:HA	2	2.28
(1,686)	1:174:A:LEU:HD21	1:171:A:ARG:HA	14	2.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG21	3	2.28
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG22	4	2.28
(1,597)	1:54:A:ALA:HB1	1:55:A:SER:HB2	11	2.28
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	11	2.27
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD11	11	2.27
(1,1015)	1:170:A:ILE:HD13	1:130:A:LEU:HD12	16	2.27
(1,407)	1:120:A:ILE:HG23	1:117:A:GLY:HA3	18	2.27
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG11	9	2.27
(1,1664)	1:101:A:GLU:H	1:100:A:LYS:HG2	20	2.26
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB3	13	2.26
(1,686)	1:174:A:LEU:HD23	1:171:A:ARG:HA	16	2.26
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG12	3	2.26
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	16	2.25
(1,1581)	1:48:A:LEU:HG	1:56:A:ILE:HD11	15	2.25
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	10	2.25
(1,1040)	1:96:A:PHE:HD1	1:91:A:LEU:HA	20	2.25
(1,686)	1:174:A:LEU:HD22	1:171:A:ARG:HA	7	2.25
(1,226)	1:48:A:LEU:HD13	1:87:A:ILE:HA	15	2.25
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	12	2.24
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	12	2.24
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	12	2.24
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD12	12	2.24
(1,1539)	1:90:A:LYS:HG3	1:91:A:LEU:HD23	19	2.24
(1,226)	1:48:A:LEU:HD12	1:87:A:ILE:HA	3	2.24
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG13	12	2.24
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	18	2.23
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	18	2.23
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	18	2.23
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	16	2.23
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG21	19	2.23
(1,1017)	1:173:A:ILE:HG23	1:126:A:THR:HG22	6	2.23
(1,691)	1:103:A:VAL:HG23	1:105:A:LEU:HD22	16	2.23
(1,686)	1:174:A:LEU:HD22	1:171:A:ARG:HA	1	2.23
(1,686)	1:174:A:LEU:HD21	1:171:A:ARG:HA	5	2.23
(1,686)	1:174:A:LEU:HD22	1:171:A:ARG:HA	10	2.23
(1,597)	1:54:A:ALA:HB1	1:55:A:SER:HB2	12	2.23
(1,597)	1:54:A:ALA:HB1	1:55:A:SER:HB2	19	2.23
(1,407)	1:120:A:ILE:HG21	1:117:A:GLY:HA3	14	2.23
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	15	2.22
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	15	2.22
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	15	2.22
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	10	2.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD11	17	2.22
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB3	7	2.22
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB2	8	2.22
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG23	9	2.22
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG22	11	2.22
(1,407)	1:120:A:ILE:HG22	1:117:A:GLY:HA3	15	2.22
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	6	2.22
(1,226)	1:48:A:LEU:HD12	1:87:A:ILE:HA	12	2.22
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	19	2.21
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG11	18	2.21
(1,1063)	1:103:A:VAL:HG23	1:97:A:PHE:HE1	9	2.21
(1,686)	1:174:A:LEU:HD21	1:171:A:ARG:HA	6	2.2
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG23	15	2.2
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	12	2.19
(1,1581)	1:48:A:LEU:HG	1:56:A:ILE:HD13	18	2.19
(1,1535)	1:170:A:ILE:HD13	1:170:A:ILE:HG21	8	2.19
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD12	8	2.19
(1,1063)	1:103:A:VAL:HG21	1:97:A:PHE:HE1	7	2.19
(1,691)	1:103:A:VAL:HG23	1:105:A:LEU:HD21	5	2.19
(1,686)	1:174:A:LEU:HD22	1:171:A:ARG:HA	4	2.19
(1,686)	1:174:A:LEU:HD21	1:171:A:ARG:HA	8	2.19
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	10	2.18
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	10	2.18
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	10	2.18
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	6	2.18
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	16	2.18
(1,677)	1:94:A:GLU:HG2	1:90:A:LYS:HG2	13	2.18
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB1	14	2.18
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB2	16	2.18
(1,102)	1:112:A:PRO:HD2	1:111:A:VAL:HG13	10	2.18
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	20	2.17
(1,886)	1:27:A:VAL:HG12	1:73:A:ILE:HG21	18	2.17
(1,407)	1:120:A:ILE:HG22	1:117:A:GLY:HA3	3	2.17
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD1	14	2.16
(1,1535)	1:170:A:ILE:HD12	1:170:A:ILE:HG23	7	2.16
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB2	15	2.16
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB3	17	2.16
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	14	2.15
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG12	18	2.15
(1,1581)	1:48:A:LEU:HG	1:56:A:ILE:HD12	17	2.15
(1,677)	1:94:A:GLU:HG2	1:90:A:LYS:HG2	18	2.15
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG22	6	2.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	4	2.15
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	5	2.15
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	9	2.14
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	9	2.14
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	9	2.14
(1,1581)	1:48:A:LEU:HG	1:56:A:ILE:HD12	19	2.14
(1,1063)	1:103:A:VAL:HG21	1:97:A:PHE:HE1	6	2.14
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	12	2.14
(1,1017)	1:173:A:ILE:HG21	1:126:A:THR:HG21	8	2.14
(1,1017)	1:173:A:ILE:HG21	1:126:A:THR:HG23	19	2.14
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB1	4	2.14
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	8	2.14
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	15	2.13
(1,1581)	1:48:A:LEU:HG	1:56:A:ILE:HD11	12	2.13
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	8	2.13
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	14	2.13
(1,1006)	1:83:A:ALA:HB2	1:73:A:ILE:HB	19	2.13
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG23	11	2.13
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG22	15	2.13
(1,291)	1:152:A:VAL:HG11	1:144:A:GLN:HG2	10	2.13
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	9	2.12
(1,1539)	1:90:A:LYS:HG2	1:91:A:LEU:HD22	12	2.12
(1,1539)	1:90:A:LYS:HG3	1:91:A:LEU:HD23	14	2.12
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	5	2.12
(1,1017)	1:173:A:ILE:HG22	1:126:A:THR:HG21	17	2.12
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	7	2.12
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	1	2.11
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	13	2.11
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB3	10	2.11
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB3	18	2.11
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	3	2.1
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	6	2.1
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	7	2.1
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	9	2.1
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	10	2.1
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB3	19	2.1
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	3	2.1
(1,291)	1:152:A:VAL:HG12	1:144:A:GLN:HG2	4	2.1
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	2	2.1
(1,1664)	1:101:A:GLU:H	1:100:A:LYS:HG2	17	2.09
(1,1559)	1:37:A:ILE:HD12	1:37:A:ILE:HG23	15	2.09
(1,1063)	1:103:A:VAL:HG23	1:97:A:PHE:HE1	8	2.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	16	2.09
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG23	17	2.09
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB1	1	2.09
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	1	2.08
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	1	2.08
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	1	2.08
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	13	2.08
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	13	2.08
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	13	2.08
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	4	2.08
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD12	13	2.08
(1,1535)	1:170:A:ILE:HD11	1:170:A:ILE:HG22	17	2.08
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	17	2.08
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	19	2.08
(1,1301)	1:105:A:LEU:HD13	1:88:A:TYR:HE1	2	2.08
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	6	2.08
(1,716)	1:153:A:ILE:HD11	1:153:A:ILE:HA	2	2.08
(1,716)	1:153:A:ILE:HD11	1:153:A:ILE:HA	4	2.08
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB3	2	2.08
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG21	20	2.08
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	13	2.08
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	16	2.08
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	17	2.08
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	16	2.07
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	10	2.07
(1,1063)	1:103:A:VAL:HG23	1:97:A:PHE:HE1	10	2.07
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	19	2.07
(1,716)	1:153:A:ILE:HD11	1:153:A:ILE:HA	10	2.07
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG21	13	2.07
(1,528)	1:103:A:VAL:HG21	1:159:A:HIS:HD2	20	2.07
(1,407)	1:120:A:ILE:HG22	1:117:A:GLY:HA3	5	2.07
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	14	2.07
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	2	2.06
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	2	2.06
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	2	2.06
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	3	2.06
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	3	2.06
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	3	2.06
(1,1539)	1:90:A:LYS:HG2	1:91:A:LEU:HD21	15	2.06
(1,848)	1:34:A:VAL:HG13	1:69:A:ARG:HB2	13	2.06
(1,716)	1:153:A:ILE:HD13	1:153:A:ILE:HA	1	2.06
(1,716)	1:153:A:ILE:HD13	1:153:A:ILE:HA	9	2.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,716)	1:153:A:ILE:HD13	1:153:A:ILE:HA	11	2.06
(1,716)	1:153:A:ILE:HD12	1:153:A:ILE:HA	16	2.06
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB2	5	2.06
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG11	13	2.06
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG11	14	2.06
(1,226)	1:48:A:LEU:HD12	1:87:A:ILE:HA	16	2.06
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	19	2.06
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	20	2.06
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	7	2.05
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	7	2.05
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	7	2.05
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	4	2.05
(1,1426)	1:56:A:ILE:HD12	1:48:A:LEU:HB2	6	2.05
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	18	2.05
(1,1071)	1:105:A:LEU:HD13	1:88:A:TYR:HE1	2	2.05
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	8	2.05
(1,716)	1:153:A:ILE:HD12	1:153:A:ILE:HA	3	2.05
(1,716)	1:153:A:ILE:HD11	1:153:A:ILE:HA	5	2.05
(1,716)	1:153:A:ILE:HD11	1:153:A:ILE:HA	13	2.05
(1,716)	1:153:A:ILE:HD13	1:153:A:ILE:HA	18	2.05
(1,716)	1:153:A:ILE:HD12	1:153:A:ILE:HA	19	2.05
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG22	14	2.05
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB3	6	2.05
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG22	6	2.05
(1,228)	1:109:A:ILE:HG23	1:171:A:ARG:HD2	2	2.05
(1,1581)	1:48:A:LEU:HG	1:56:A:ILE:HD12	20	2.04
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	20	2.04
(1,1063)	1:103:A:VAL:HG22	1:97:A:PHE:HE1	2	2.04
(1,1063)	1:103:A:VAL:HG22	1:97:A:PHE:HE1	5	2.04
(1,922)	1:88:A:TYR:HB2	1:103:A:VAL:HG23	16	2.04
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	19	2.04
(1,766)	1:157:A:ILE:HD11	1:106:A:GLU:HB3	6	2.04
(1,766)	1:157:A:ILE:HD11	1:106:A:GLU:HB3	8	2.04
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	7	2.04
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	13	2.04
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB3	8	2.04
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	11	2.03
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	11	2.03
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	11	2.03
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	17	2.03
(1,1539)	1:90:A:LYS:HG2	1:91:A:LEU:HD23	16	2.03
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	7	2.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1006)	1:83:A:ALA:HB2	1:73:A:ILE:HB	15	2.03
(1,894)	1:54:A:ALA:HB2	1:56:A:ILE:HD13	16	2.03
(1,766)	1:157:A:ILE:HD12	1:106:A:GLU:HB3	4	2.03
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	17	2.03
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	20	2.03
(1,716)	1:153:A:ILE:HD12	1:153:A:ILE:HA	7	2.03
(1,716)	1:153:A:ILE:HD13	1:153:A:ILE:HA	14	2.03
(1,716)	1:153:A:ILE:HD12	1:153:A:ILE:HA	17	2.03
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB1	1	2.03
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	15	2.03
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG21	12	2.03
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	19	2.03
(1,1581)	1:48:A:LEU:HG	1:56:A:ILE:HD11	13	2.02
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	9	2.02
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	11	2.02
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	18	2.02
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG23	11	2.02
(1,1006)	1:83:A:ALA:HB2	1:73:A:ILE:HB	17	2.02
(1,716)	1:153:A:ILE:HD11	1:153:A:ILE:HA	8	2.02
(1,716)	1:153:A:ILE:HD13	1:153:A:ILE:HA	15	2.02
(1,691)	1:103:A:VAL:HG22	1:105:A:LEU:HD23	18	2.02
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG23	19	2.02
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG12	16	2.01
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	3	2.01
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	5	2.01
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	6	2.01
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	8	2.01
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	12	2.01
(1,1006)	1:83:A:ALA:HB2	1:73:A:ILE:HB	14	2.01
(1,886)	1:27:A:VAL:HG12	1:73:A:ILE:HG21	7	2.01
(1,766)	1:157:A:ILE:HD12	1:106:A:GLU:HB3	10	2.01
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	5	2.01
(1,716)	1:153:A:ILE:HD12	1:153:A:ILE:HA	6	2.01
(1,716)	1:153:A:ILE:HD12	1:153:A:ILE:HA	20	2.01
(1,691)	1:103:A:VAL:HG23	1:105:A:LEU:HD23	6	2.01
(1,597)	1:54:A:ALA:HB2	1:55:A:SER:HB2	18	2.01
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG21	1	2.01
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG11	18	2.01
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD13	16	2.0
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	2	2.0
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	10	2.0
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	13	2.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	4	2.0
(1,766)	1:157:A:ILE:HD11	1:106:A:GLU:HB3	9	2.0
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB3	11	2.0
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB1	3	2.0
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB1	7	2.0
(1,528)	1:103:A:VAL:HG22	1:159:A:HIS:HD2	17	2.0
(1,345)	1:177:A:VAL:H	1:177:A:VAL:HG13	7	2.0
(1,345)	1:177:A:VAL:H	1:177:A:VAL:HG13	13	2.0
(1,226)	1:48:A:LEU:HD13	1:87:A:ILE:HA	9	2.0
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD1	17	1.99
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	15	1.99
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	13	1.99
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	19	1.99
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	2	1.99
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	8	1.99
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	9	1.99
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	13	1.99
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	14	1.99
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB2	15	1.99
(1,698)	1:25:A:VAL:HG11	1:107:A:THR:HB	10	1.99
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	16	1.99
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG23	2	1.99
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG23	3	1.99
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG23	5	1.99
(1,345)	1:177:A:VAL:H	1:177:A:VAL:HG12	20	1.99
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	3	1.99
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	17	1.98
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	17	1.98
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	17	1.98
(1,1301)	1:105:A:LEU:HD13	1:88:A:TYR:HE1	4	1.98
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	19	1.98
(1,921)	1:105:A:LEU:HD11	1:97:A:PHE:HE1	8	1.98
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	4	1.98
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	13	1.98
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	20	1.98
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	4	1.98
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	19	1.98
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	3	1.98
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG21	16	1.98
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	11	1.98
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	1	1.98
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	6	1.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	10	1.98
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	3	1.97
(1,1535)	1:170:A:ILE:HD11	1:170:A:ILE:HG21	13	1.97
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	16	1.97
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	4	1.97
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	6	1.97
(1,849)	1:34:A:VAL:HG13	1:69:A:ARG:HB3	13	1.97
(1,766)	1:157:A:ILE:HD13	1:106:A:GLU:HB3	1	1.97
(1,766)	1:157:A:ILE:HD11	1:106:A:GLU:HB3	5	1.97
(1,766)	1:157:A:ILE:HD12	1:106:A:GLU:HB3	7	1.97
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	2	1.97
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	9	1.97
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	2	1.97
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	7	1.97
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB3	20	1.97
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	14	1.97
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG21	4	1.97
(1,407)	1:120:A:ILE:HG22	1:117:A:GLY:HA3	6	1.97
(1,226)	1:48:A:LEU:HD12	1:87:A:ILE:HA	13	1.97
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	4	1.96
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	4	1.96
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	4	1.96
(1,1581)	1:48:A:LEU:HG	1:56:A:ILE:HD11	14	1.96
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	11	1.96
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	17	1.96
(1,1071)	1:105:A:LEU:HD13	1:88:A:TYR:HE1	4	1.96
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	9	1.96
(1,849)	1:34:A:VAL:HG11	1:69:A:ARG:HB3	10	1.96
(1,766)	1:157:A:ILE:HD11	1:106:A:GLU:HB3	18	1.96
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	10	1.96
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	16	1.96
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG21	5	1.96
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	4	1.96
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB1	9	1.96
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	15	1.96
(1,407)	1:120:A:ILE:HG22	1:117:A:GLY:HA3	1	1.96
(1,407)	1:120:A:ILE:HG21	1:117:A:GLY:HA3	8	1.96
(1,407)	1:120:A:ILE:HG23	1:117:A:GLY:HA3	12	1.96
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	18	1.95
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	7	1.95
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	10	1.95
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	2	1.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	3	1.95
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	7	1.95
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	19	1.95
(1,922)	1:88:A:TYR:HB2	1:103:A:VAL:HG22	18	1.95
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	3	1.95
(1,407)	1:120:A:ILE:HG21	1:117:A:GLY:HA3	4	1.95
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	8	1.94
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	8	1.94
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	8	1.94
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	7	1.94
(1,1619)	1:157:A:ILE:HG22	1:104:A:LYS:HD2	3	1.94
(1,1301)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	8	1.94
(1,1301)	1:105:A:LEU:HD12	1:88:A:TYR:HE1	9	1.94
(1,1278)	1:173:A:ILE:HD11	1:173:A:ILE:HA	16	1.94
(1,1017)	1:173:A:ILE:HG22	1:126:A:THR:HG21	18	1.94
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	1	1.94
(1,849)	1:34:A:VAL:HG11	1:69:A:ARG:HB3	18	1.94
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	3	1.94
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	6	1.94
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB3	20	1.94
(1,543)	1:105:A:LEU:HD11	1:105:A:LEU:HA	20	1.94
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG22	9	1.94
(1,226)	1:48:A:LEU:HD12	1:87:A:ILE:HA	20	1.94
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD13	15	1.93
(1,1278)	1:173:A:ILE:HD13	1:173:A:ILE:HA	11	1.93
(1,1278)	1:173:A:ILE:HD11	1:173:A:ILE:HA	12	1.93
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	11	1.93
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	15	1.93
(1,797)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	16	1.93
(1,766)	1:157:A:ILE:HD13	1:106:A:GLU:HB3	2	1.93
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	5	1.93
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	15	1.93
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	12	1.93
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG21	20	1.93
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	17	1.93
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG21	10	1.93
(1,226)	1:48:A:LEU:HD11	1:87:A:ILE:HA	17	1.93
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	9	1.92
(1,1278)	1:173:A:ILE:HD13	1:173:A:ILE:HA	14	1.92
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	16	1.92
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	20	1.92
(1,893)	1:48:A:LEU:HD12	1:86:A:ARG:HG2	7	1.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,802)	1:50:A:ARG:HD2	1:50:A:ARG:HB2	10	1.92
(1,802)	1:50:A:ARG:HD2	1:50:A:ARG:HB2	12	1.92
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB3	19	1.92
(1,400)	1:138:A:VAL:HG21	1:154:A:VAL:HG21	15	1.92
(1,370)	1:154:A:VAL:HG22	1:119:A:VAL:HG22	12	1.92
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	9	1.91
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD11	12	1.91
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	20	1.91
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	4	1.91
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	19	1.91
(1,1071)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	8	1.91
(1,1071)	1:105:A:LEU:HD12	1:88:A:TYR:HE1	9	1.91
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	12	1.91
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	13	1.91
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	14	1.91
(1,766)	1:157:A:ILE:HD11	1:106:A:GLU:HB3	16	1.91
(1,766)	1:157:A:ILE:HD11	1:106:A:GLU:HB3	17	1.91
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	19	1.91
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	1	1.91
(1,691)	1:103:A:VAL:HG22	1:105:A:LEU:HD23	8	1.91
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	19	1.91
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	9	1.91
(1,228)	1:109:A:ILE:HG22	1:171:A:ARG:HD2	13	1.91
(1,228)	1:109:A:ILE:HG22	1:171:A:ARG:HD2	17	1.91
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	6	1.9
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	13	1.9
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	9	1.9
(1,1278)	1:173:A:ILE:HD12	1:173:A:ILE:HA	2	1.9
(1,1278)	1:173:A:ILE:HD13	1:173:A:ILE:HA	18	1.9
(1,1278)	1:173:A:ILE:HD13	1:173:A:ILE:HA	19	1.9
(1,1278)	1:173:A:ILE:HD13	1:173:A:ILE:HA	20	1.9
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	14	1.89
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	8	1.89
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	16	1.89
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	19	1.89
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	5	1.89
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	2	1.89
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	6	1.89
(1,1582)	1:59:A:ALA:HB1	1:70:A:MET:HG3	10	1.89
(1,1426)	1:56:A:ILE:HD13	1:48:A:LEU:HB2	4	1.89
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	12	1.89
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	13	1.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1301)	1:105:A:LEU:HD12	1:88:A:TYR:HE1	7	1.89
(1,1278)	1:173:A:ILE:HD13	1:173:A:ILE:HA	1	1.89
(1,1278)	1:173:A:ILE:HD13	1:173:A:ILE:HA	4	1.89
(1,1278)	1:173:A:ILE:HD13	1:173:A:ILE:HA	8	1.89
(1,1278)	1:173:A:ILE:HD11	1:173:A:ILE:HA	10	1.89
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD12	8	1.89
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD13	18	1.89
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	16	1.89
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	11	1.89
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	15	1.89
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	5	1.89
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	10	1.89
(1,407)	1:120:A:ILE:HG21	1:117:A:GLY:HA3	7	1.89
(1,370)	1:154:A:VAL:HG21	1:119:A:VAL:HG22	15	1.89
(1,228)	1:109:A:ILE:HG21	1:171:A:ARG:HD2	15	1.89
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	11	1.88
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	1	1.88
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	11	1.88
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	15	1.88
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	8	1.88
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	9	1.88
(1,1539)	1:90:A:LYS:HG2	1:91:A:LEU:HD21	13	1.88
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	14	1.88
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	15	1.88
(1,1278)	1:173:A:ILE:HD11	1:173:A:ILE:HA	6	1.88
(1,1278)	1:173:A:ILE:HD13	1:173:A:ILE:HA	13	1.88
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD12	6	1.88
(1,1006)	1:83:A:ALA:HB2	1:73:A:ILE:HB	18	1.88
(1,917)	1:74:A:THR:HG22	1:24:A:THR:HA	20	1.88
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	2	1.88
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	4	1.88
(1,766)	1:157:A:ILE:HD12	1:106:A:GLU:HB3	19	1.88
(1,597)	1:54:A:ALA:HB1	1:55:A:SER:HB2	17	1.88
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG23	11	1.88
(1,407)	1:120:A:ILE:HG21	1:117:A:GLY:HA3	9	1.88
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	9	1.87
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	17	1.87
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	1	1.87
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	6	1.87
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	16	1.87
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	14	1.87
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	18	1.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1071)	1:105:A:LEU:HD12	1:88:A:TYR:HE1	7	1.87
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	5	1.87
(1,766)	1:157:A:ILE:HD13	1:106:A:GLU:HB3	12	1.87
(1,766)	1:157:A:ILE:HD11	1:106:A:GLU:HB3	13	1.87
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB2	12	1.87
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB2	13	1.87
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	2	1.86
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	15	1.86
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD12	17	1.86
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	10	1.86
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	17	1.86
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	13	1.86
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	12	1.86
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	18	1.86
(1,1322)	1:155:A:LYS:H	1:154:A:VAL:HG22	8	1.86
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	11	1.86
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD12	15	1.86
(1,1278)	1:173:A:ILE:HD12	1:173:A:ILE:HA	7	1.86
(1,1278)	1:173:A:ILE:HD13	1:173:A:ILE:HA	17	1.86
(1,917)	1:74:A:THR:HG21	1:24:A:THR:HA	18	1.86
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	3	1.86
(1,717)	1:151:A:GLN:HA	1:146:A:PRO:HB2	18	1.86
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB3	10	1.86
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB3	14	1.86
(1,597)	1:54:A:ALA:HB3	1:55:A:SER:HB2	14	1.86
(1,597)	1:54:A:ALA:HB1	1:55:A:SER:HB2	15	1.86
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	13	1.86
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	9	1.86
(1,228)	1:109:A:ILE:HG22	1:171:A:ARG:HD2	3	1.86
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	16	1.85
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	9	1.85
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	18	1.85
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	20	1.85
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	15	1.85
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	3	1.85
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	13	1.85
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	17	1.85
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	20	1.85
(1,1278)	1:173:A:ILE:HD11	1:173:A:ILE:HA	5	1.85
(1,1278)	1:173:A:ILE:HD13	1:173:A:ILE:HA	15	1.85
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	18	1.85
(1,944)	1:138:A:VAL:HG12	1:127:A:VAL:HA	14	1.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,921)	1:105:A:LEU:HD12	1:97:A:PHE:HE1	7	1.85
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	4	1.85
(1,406)	1:103:A:VAL:H	1:103:A:VAL:HG11	16	1.85
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	6	1.84
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	6	1.84
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	6	1.84
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	11	1.84
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	16	1.84
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	15	1.84
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	4	1.84
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	14	1.84
(1,1399)	1:91:A:LEU:HD22	1:96:A:PHE:HE1	17	1.84
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	19	1.84
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD11	13	1.84
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD11	7	1.84
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	7	1.84
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	8	1.84
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	13	1.84
(1,691)	1:103:A:VAL:HG21	1:105:A:LEU:HD22	2	1.84
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	6	1.84
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	9	1.84
(1,615)	1:113:A:ALA:HB3	1:112:A:PRO:HB2	10	1.84
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	5	1.84
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG22	16	1.84
(1,407)	1:120:A:ILE:HG22	1:117:A:GLY:HA3	11	1.84
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	1	1.83
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	3	1.83
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	7	1.83
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	14	1.83
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD12	19	1.83
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB2	17	1.83
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	2	1.83
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	5	1.83
(1,1426)	1:56:A:ILE:HD12	1:48:A:LEU:HB2	10	1.83
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD11	16	1.83
(1,1063)	1:103:A:VAL:HG22	1:97:A:PHE:HE1	4	1.83
(1,1050)	1:97:A:PHE:HD1	1:103:A:VAL:HG23	20	1.83
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	20	1.83
(1,848)	1:34:A:VAL:HG11	1:69:A:ARG:HB2	10	1.83
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG11	18	1.83
(1,766)	1:157:A:ILE:HD11	1:106:A:GLU:HB3	20	1.83
(1,716)	1:153:A:ILE:HD12	1:153:A:ILE:HA	12	1.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,691)	1:103:A:VAL:HG23	1:105:A:LEU:HD23	7	1.83
(1,597)	1:54:A:ALA:HB3	1:55:A:SER:HB2	1	1.83
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	9	1.83
(1,220)	1:74:A:THR:HG23	1:55:A:SER:HB2	7	1.83
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	2	1.82
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	4	1.82
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	5	1.82
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	6	1.82
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	8	1.82
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	19	1.82
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	20	1.82
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	15	1.82
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	6	1.82
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	18	1.82
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	3	1.82
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	16	1.82
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	18	1.82
(1,1301)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	6	1.82
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD11	2	1.82
(1,921)	1:105:A:LEU:HD13	1:97:A:PHE:HE1	18	1.82
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG22	5	1.82
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB1	16	1.82
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	4	1.82
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	7	1.82
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG21	15	1.82
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	3	1.81
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	12	1.81
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	2	1.81
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	4	1.81
(1,1583)	1:59:A:ALA:HB1	1:70:A:MET:HB2	10	1.81
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD11	3	1.81
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	16	1.81
(1,1278)	1:173:A:ILE:HD12	1:173:A:ILE:HA	3	1.81
(1,827)	1:91:A:LEU:HD23	1:30:A:PRO:HG3	1	1.81
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	3	1.81
(1,597)	1:54:A:ALA:HB3	1:55:A:SER:HB2	4	1.81
(1,597)	1:54:A:ALA:HB2	1:55:A:SER:HB2	8	1.81
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	3	1.81
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG13	8	1.81
(1,291)	1:152:A:VAL:HG11	1:144:A:GLN:HG2	20	1.81
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	10	1.8
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	13	1.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	12	1.8
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	5	1.8
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	8	1.8
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	9	1.8
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	11	1.8
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	1	1.8
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG12	16	1.8
(1,1278)	1:173:A:ILE:HD12	1:173:A:ILE:HA	9	1.8
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD12	9	1.8
(1,1017)	1:173:A:ILE:HG22	1:126:A:THR:HG21	9	1.8
(1,1011)	1:127:A:VAL:HG21	1:138:A:VAL:HB	5	1.8
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	11	1.8
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG11	10	1.8
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	4	1.8
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	9	1.8
(1,2195)	1:147:A:ASP:H	1:146:A:PRO:HD3	17	1.79
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	8	1.79
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	20	1.79
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	7	1.79
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	11	1.79
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	3	1.79
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	15	1.79
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	19	1.79
(1,1532)	1:177:A:VAL:HG12	1:178:A:LYS:HG2	20	1.79
(1,1071)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	6	1.79
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	14	1.79
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	2	1.79
(1,691)	1:103:A:VAL:HG23	1:105:A:LEU:HD21	10	1.79
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG22	8	1.79
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	1	1.79
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG21	15	1.79
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD12	14	1.78
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD13	20	1.78
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	12	1.78
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	13	1.78
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	20	1.78
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD11	3	1.78
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	15	1.78
(1,615)	1:113:A:ALA:HB1	1:112:A:PRO:HB2	4	1.78
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	4	1.78
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	10	1.78
(1,228)	1:109:A:ILE:HG21	1:171:A:ARG:HD2	5	1.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2274)	1:22:A:GLN:HE22	1:21:A:GLU:HB2	18	1.77
(1,1874)	1:72:A:VAL:H	1:58:A:ILE:HG13	2	1.77
(1,1539)	1:90:A:LYS:HG2	1:91:A:LEU:HD22	17	1.77
(1,1426)	1:56:A:ILE:HD11	1:48:A:LEU:HB2	1	1.77
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	17	1.77
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG23	6	1.77
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	2	1.77
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	6	1.77
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	10	1.76
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	11	1.76
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	19	1.76
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	20	1.76
(1,1935)	1:66:A:SER:H	1:63:A:THR:HG23	16	1.76
(1,1619)	1:157:A:ILE:HG23	1:104:A:LYS:HD2	17	1.76
(1,1582)	1:59:A:ALA:HB1	1:70:A:MET:HG3	20	1.76
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD12	4	1.76
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	3	1.76
(1,1006)	1:83:A:ALA:HB3	1:73:A:ILE:HB	12	1.76
(1,1006)	1:83:A:ALA:HB2	1:73:A:ILE:HB	13	1.76
(1,917)	1:74:A:THR:HG21	1:24:A:THR:HA	19	1.76
(1,707)	1:48:A:LEU:HD11	1:48:A:LEU:HA	20	1.76
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	1	1.76
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	8	1.76
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD12	13	1.75
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	2	1.75
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	1	1.75
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	3	1.75
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	4	1.75
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	6	1.75
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	9	1.75
(1,1322)	1:155:A:LYS:H	1:154:A:VAL:HG23	6	1.75
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD12	10	1.75
(1,944)	1:138:A:VAL:HG12	1:127:A:VAL:HA	16	1.75
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG22	4	1.75
(1,615)	1:113:A:ALA:HB3	1:112:A:PRO:HB2	2	1.75
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	8	1.75
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG21	5	1.75
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG23	13	1.75
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG11	1	1.75
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG11	7	1.75
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	5	1.75
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	14	1.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	14	1.74
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	14	1.74
(1,2274)	1:22:A:GLN:HE22	1:21:A:GLU:HB2	7	1.74
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	11	1.74
(1,1539)	1:90:A:LYS:HG2	1:91:A:LEU:HD22	11	1.74
(1,1063)	1:103:A:VAL:HG22	1:97:A:PHE:HE1	1	1.74
(1,1015)	1:170:A:ILE:HD13	1:130:A:LEU:HD11	5	1.74
(1,901)	1:90:A:LYS:HE2	1:94:A:GLU:HG3	19	1.74
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG21	7	1.74
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG21	10	1.74
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG23	11	1.74
(1,615)	1:113:A:ALA:HB2	1:112:A:PRO:HB2	3	1.74
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	9	1.74
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG21	14	1.74
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	10	1.74
(1,2274)	1:22:A:GLN:HE22	1:21:A:GLU:HB2	8	1.73
(1,2274)	1:22:A:GLN:HE22	1:21:A:GLU:HB2	9	1.73
(1,2274)	1:22:A:GLN:HE22	1:21:A:GLU:HB2	11	1.73
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	18	1.73
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB2	16	1.73
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	18	1.73
(1,1364)	1:48:A:LEU:HD12	1:86:A:ARG:HD3	11	1.73
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD11	5	1.73
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD11	6	1.73
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	7	1.73
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	19	1.73
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	16	1.73
(1,220)	1:74:A:THR:HG22	1:55:A:SER:HB2	5	1.73
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG23	20	1.73
(1,2274)	1:22:A:GLN:HE22	1:21:A:GLU:HB2	2	1.72
(1,2274)	1:22:A:GLN:HE22	1:21:A:GLU:HB2	6	1.72
(1,2274)	1:22:A:GLN:HE22	1:21:A:GLU:HB2	10	1.72
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	9	1.72
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	12	1.72
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	11	1.72
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	17	1.72
(1,1954)	1:89:A:GLY:H	1:87:A:ILE:HG12	14	1.72
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	15	1.72
(1,1426)	1:56:A:ILE:HD13	1:48:A:LEU:HB2	5	1.72
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	16	1.72
(1,874)	1:104:A:LYS:HE2	1:104:A:LYS:HB3	16	1.72
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG22	1	1.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG22	2	1.72
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG22	9	1.72
(1,707)	1:48:A:LEU:HD11	1:48:A:LEU:HA	12	1.72
(1,691)	1:103:A:VAL:HG21	1:105:A:LEU:HD22	19	1.72
(1,615)	1:113:A:ALA:HB2	1:112:A:PRO:HB2	6	1.72
(1,615)	1:113:A:ALA:HB2	1:112:A:PRO:HB2	13	1.72
(1,615)	1:113:A:ALA:HB3	1:112:A:PRO:HB2	20	1.72
(1,407)	1:120:A:ILE:HG22	1:117:A:GLY:HA3	2	1.72
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG23	12	1.72
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG23	13	1.72
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG22	14	1.72
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	2	1.71
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	4	1.71
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	7	1.71
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB1	13	1.71
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	1	1.71
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	4	1.71
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	4	1.71
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD11	20	1.71
(1,1017)	1:173:A:ILE:HG22	1:126:A:THR:HG23	4	1.71
(1,939)	1:153:A:ILE:HD13	1:108:A:HIS:HB2	18	1.71
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	15	1.71
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG22	3	1.71
(1,707)	1:48:A:LEU:HD13	1:48:A:LEU:HA	17	1.71
(1,528)	1:103:A:VAL:HG23	1:159:A:HIS:HD2	13	1.71
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	10	1.71
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	8	1.71
(1,438)	1:130:A:LEU:HA	1:130:A:LEU:HD11	11	1.71
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	5	1.71
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG22	19	1.71
(1,2274)	1:22:A:GLN:HE22	1:21:A:GLU:HB2	5	1.7
(1,2274)	1:22:A:GLN:HE22	1:21:A:GLU:HB2	14	1.7
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	3	1.7
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	14	1.7
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	16	1.7
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB2	19	1.7
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	15	1.7
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	19	1.7
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	11	1.7
(1,939)	1:153:A:ILE:HD13	1:108:A:HIS:HB2	11	1.7
(1,879)	1:110:A:ARG:HD3	1:151:A:GLN:HB2	10	1.7
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD11	16	1.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG23	6	1.7
(1,707)	1:48:A:LEU:HD12	1:48:A:LEU:HA	15	1.7
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	7	1.7
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	8	1.7
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	10	1.7
(1,691)	1:103:A:VAL:HG22	1:105:A:LEU:HD23	9	1.7
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	5	1.7
(1,615)	1:113:A:ALA:HB3	1:112:A:PRO:HB2	8	1.7
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD13	4	1.7
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD13	3	1.7
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG13	3	1.7
(1,220)	1:74:A:THR:HG22	1:55:A:SER:HB2	10	1.7
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG23	17	1.7
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	16	1.69
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	18	1.69
(1,1131)	1:34:A:VAL:H	1:34:A:VAL:HG13	18	1.69
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	8	1.69
(1,1017)	1:173:A:ILE:HG22	1:126:A:THR:HG22	15	1.69
(1,939)	1:153:A:ILE:HD11	1:108:A:HIS:HB2	5	1.69
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	20	1.69
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG22	17	1.69
(1,691)	1:103:A:VAL:HG21	1:105:A:LEU:HD22	4	1.69
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD12	8	1.69
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG13	11	1.69
(1,1426)	1:56:A:ILE:HD13	1:48:A:LEU:HB2	8	1.68
(1,939)	1:153:A:ILE:HD13	1:108:A:HIS:HB2	1	1.68
(1,939)	1:153:A:ILE:HD12	1:108:A:HIS:HB2	3	1.68
(1,939)	1:153:A:ILE:HD11	1:108:A:HIS:HB2	19	1.68
(1,874)	1:104:A:LYS:HE2	1:104:A:LYS:HB3	12	1.68
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG22	8	1.68
(1,615)	1:113:A:ALA:HB3	1:112:A:PRO:HB2	1	1.68
(1,615)	1:113:A:ALA:HB3	1:112:A:PRO:HB2	5	1.68
(1,615)	1:113:A:ALA:HB3	1:112:A:PRO:HB2	16	1.68
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD11	9	1.68
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD13	15	1.68
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG21	1	1.68
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG12	2	1.68
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG13	5	1.68
(1,406)	1:103:A:VAL:H	1:103:A:VAL:HG12	18	1.68
(1,220)	1:74:A:THR:HG22	1:55:A:SER:HB2	6	1.68
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	17	1.67
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD11	8	1.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	6	1.67
(1,1029)	1:28:A:PHE:HD1	1:106:A:GLU:HG2	11	1.67
(1,1017)	1:173:A:ILE:HG22	1:126:A:THR:HG21	2	1.67
(1,707)	1:48:A:LEU:HD11	1:48:A:LEU:HA	19	1.67
(1,635)	1:25:A:VAL:HB	1:107:A:THR:HG21	7	1.67
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	5	1.67
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	6	1.67
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD12	1	1.67
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD12	5	1.67
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD13	8	1.67
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD12	14	1.67
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD11	17	1.67
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD11	18	1.67
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD12	19	1.67
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG12	4	1.67
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG23	10	1.67
(1,2274)	1:22:A:GLN:HE22	1:21:A:GLU:HB2	15	1.66
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	13	1.66
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	19	1.66
(1,1426)	1:56:A:ILE:HD12	1:48:A:LEU:HB2	11	1.66
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	12	1.66
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	15	1.66
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD13	12	1.66
(1,939)	1:153:A:ILE:HD12	1:108:A:HIS:HB2	6	1.66
(1,939)	1:153:A:ILE:HD13	1:108:A:HIS:HB2	9	1.66
(1,921)	1:105:A:LEU:HD12	1:97:A:PHE:HE1	9	1.66
(1,893)	1:48:A:LEU:HD13	1:86:A:ARG:HG2	9	1.66
(1,797)	1:48:A:LEU:HD11	1:51:A:PHE:HD1	9	1.66
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD11	6	1.66
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	6	1.66
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD12	2	1.66
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD11	4	1.66
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD11	7	1.66
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD11	12	1.66
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD11	20	1.66
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	16	1.66
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG11	6	1.66
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD12	11	1.66
(1,300)	1:74:A:THR:H	1:55:A:SER:HB2	2	1.66
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG22	6	1.66
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	2	1.65
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	13	1.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	8	1.65
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD11	11	1.65
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	18	1.65
(1,921)	1:105:A:LEU:HD13	1:97:A:PHE:HE1	4	1.65
(1,893)	1:48:A:LEU:HD12	1:86:A:ARG:HG2	18	1.65
(1,827)	1:91:A:LEU:HD22	1:30:A:PRO:HG3	3	1.65
(1,827)	1:91:A:LEU:HD23	1:30:A:PRO:HG3	9	1.65
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	15	1.65
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	15	1.65
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	6	1.65
(1,615)	1:113:A:ALA:HB3	1:112:A:PRO:HB2	9	1.65
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD13	5	1.65
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD13	7	1.65
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD13	9	1.65
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD12	6	1.65
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD12	11	1.65
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD11	13	1.65
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	2	1.65
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG21	9	1.65
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG12	10	1.65
(1,437)	1:130:A:LEU:HA	1:130:A:LEU:HD23	2	1.65
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	2	1.65
(1,307)	1:91:A:LEU:HG	1:105:A:LEU:HG	16	1.65
(1,300)	1:74:A:THR:H	1:55:A:SER:HB2	3	1.65
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB2	12	1.64
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	7	1.64
(1,1964)	1:108:A:HIS:H	1:28:A:PHE:HB3	6	1.64
(1,1816)	1:68:A:VAL:H	1:66:A:SER:HB3	14	1.64
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	10	1.64
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD12	4	1.64
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD11	6	1.64
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	1	1.64
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	10	1.64
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	1	1.64
(1,1131)	1:34:A:VAL:H	1:34:A:VAL:HG12	13	1.64
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD13	3	1.64
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD13	17	1.64
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	1	1.64
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	7	1.64
(1,939)	1:153:A:ILE:HD11	1:108:A:HIS:HB2	2	1.64
(1,827)	1:91:A:LEU:HD22	1:30:A:PRO:HG3	7	1.64
(1,809)	1:73:A:ILE:HD11	1:80:A:GLN:HA	16	1.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,615)	1:113:A:ALA:HB3	1:112:A:PRO:HB2	14	1.64
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD11	1	1.64
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD12	3	1.64
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD12	10	1.64
(1,540)	1:156:A:ILE:HA	1:156:A:ILE:HD12	16	1.64
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	20	1.64
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG11	9	1.64
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG21	19	1.64
(1,300)	1:74:A:THR:H	1:55:A:SER:HB2	9	1.64
(1,228)	1:109:A:ILE:HG23	1:171:A:ARG:HD2	8	1.64
(1,226)	1:48:A:LEU:HD12	1:87:A:ILE:HA	18	1.64
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG22	9	1.64
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	9	1.63
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	16	1.63
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD13	3	1.63
(1,1582)	1:59:A:ALA:HB1	1:70:A:MET:HG3	6	1.63
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	7	1.63
(1,1135)	1:80:A:GLN:HE22	1:25:A:VAL:HG22	10	1.63
(1,939)	1:153:A:ILE:HD11	1:108:A:HIS:HB2	13	1.63
(1,921)	1:105:A:LEU:HD13	1:97:A:PHE:HE1	1	1.63
(1,917)	1:74:A:THR:HG22	1:24:A:THR:HA	16	1.63
(1,830)	1:72:A:VAL:HG22	1:57:A:LYS:HE2	16	1.63
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD13	16	1.63
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	1	1.63
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	1	1.63
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	6	1.63
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG22	8	1.63
(1,437)	1:130:A:LEU:HA	1:130:A:LEU:HD21	1	1.63
(1,437)	1:130:A:LEU:HA	1:130:A:LEU:HD21	12	1.63
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	16	1.63
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG21	1	1.63
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG22	4	1.63
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG23	5	1.63
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG22	7	1.63
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG21	10	1.63
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG23	11	1.63
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	5	1.63
(1,291)	1:152:A:VAL:HG11	1:144:A:GLN:HG2	2	1.63
(1,220)	1:74:A:THR:HG22	1:55:A:SER:HB2	9	1.63
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG21	4	1.63
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG22	5	1.63
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG23	8	1.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1964)	1:108:A:HIS:H	1:28:A:PHE:HB3	7	1.62
(1,1964)	1:108:A:HIS:H	1:28:A:PHE:HB3	8	1.62
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	16	1.62
(1,1816)	1:68:A:VAL:H	1:66:A:SER:HB3	20	1.62
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	5	1.62
(1,1600)	1:138:A:VAL:HG12	1:127:A:VAL:HG23	16	1.62
(1,1426)	1:56:A:ILE:HD13	1:48:A:LEU:HB2	7	1.62
(1,1131)	1:34:A:VAL:H	1:34:A:VAL:HG13	10	1.62
(1,921)	1:105:A:LEU:HD13	1:97:A:PHE:HE1	2	1.62
(1,917)	1:74:A:THR:HG21	1:24:A:THR:HA	14	1.62
(1,827)	1:91:A:LEU:HD23	1:30:A:PRO:HG3	4	1.62
(1,827)	1:91:A:LEU:HD23	1:30:A:PRO:HG3	6	1.62
(1,827)	1:91:A:LEU:HD23	1:30:A:PRO:HG3	8	1.62
(1,707)	1:48:A:LEU:HD11	1:48:A:LEU:HA	16	1.62
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	11	1.62
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD12	2	1.62
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD12	10	1.62
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD13	13	1.62
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD12	15	1.62
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD13	20	1.62
(1,583)	1:53:A:SER:HA	1:54:A:ALA:HB2	11	1.62
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG11	15	1.62
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG23	20	1.62
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	9	1.62
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG21	3	1.62
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	7	1.61
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	8	1.61
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	10	1.61
(1,1539)	1:90:A:LYS:HG2	1:91:A:LEU:HD21	18	1.61
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD11	8	1.61
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	16	1.61
(1,939)	1:153:A:ILE:HD11	1:108:A:HIS:HB2	8	1.61
(1,939)	1:153:A:ILE:HD13	1:108:A:HIS:HB2	15	1.61
(1,827)	1:91:A:LEU:HD23	1:30:A:PRO:HG3	2	1.61
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	14	1.61
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	18	1.61
(1,615)	1:113:A:ALA:HB2	1:112:A:PRO:HB2	17	1.61
(1,615)	1:113:A:ALA:HB2	1:112:A:PRO:HB2	19	1.61
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD13	12	1.61
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD11	17	1.61
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD13	19	1.61
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG13	13	1.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,437)	1:130:A:LEU:HA	1:130:A:LEU:HD23	18	1.61
(1,437)	1:130:A:LEU:HA	1:130:A:LEU:HD21	20	1.61
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG22	2	1.61
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG21	9	1.61
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	8	1.61
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	10	1.61
(1,300)	1:74:A:THR:H	1:55:A:SER:HB2	5	1.61
(1,291)	1:152:A:VAL:HG11	1:144:A:GLN:HG2	19	1.61
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG21	2	1.61
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG22	10	1.61
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG23	11	1.61
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG22	16	1.61
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	19	1.6
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD11	18	1.6
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	19	1.6
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD11	1	1.6
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD13	2	1.6
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	13	1.6
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD13	2	1.6
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	7	1.6
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG23	12	1.6
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG23	15	1.6
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG21	20	1.6
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	12	1.6
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	14	1.6
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	17	1.6
(1,664)	1:53:A:SER:HB3	1:82:A:LYS:HD2	2	1.6
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD11	14	1.6
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	3	1.6
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG22	18	1.6
(1,437)	1:130:A:LEU:HA	1:130:A:LEU:HD22	16	1.6
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	7	1.6
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG23	13	1.6
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG21	14	1.6
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	1	1.6
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG12	16	1.6
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG21	1	1.6
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	13	1.59
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD13	1	1.59
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD13	4	1.59
(1,939)	1:153:A:ILE:HD12	1:108:A:HIS:HB2	7	1.59
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG23	19	1.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,707)	1:48:A:LEU:HD12	1:48:A:LEU:HA	14	1.59
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	13	1.59
(1,684)	1:25:A:VAL:HG11	1:107:A:THR:HG22	10	1.59
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD12	11	1.59
(1,587)	1:174:A:LEU:HA	1:174:A:LEU:HD12	18	1.59
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	7	1.59
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	10	1.59
(1,449)	1:71:A:VAL:H	1:71:A:VAL:HG22	18	1.59
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD12	3	1.59
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD11	8	1.59
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG23	3	1.59
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG23	17	1.59
(1,220)	1:74:A:THR:HG23	1:55:A:SER:HB2	3	1.59
(1,220)	1:74:A:THR:HG23	1:55:A:SER:HB2	16	1.59
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG11	7	1.59
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG21	7	1.59
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	15	1.58
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB2	14	1.58
(1,1816)	1:68:A:VAL:H	1:66:A:SER:HB3	18	1.58
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD11	14	1.58
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	5	1.58
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD12	18	1.58
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD12	12	1.58
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	1	1.58
(1,939)	1:153:A:ILE:HD12	1:108:A:HIS:HB2	16	1.58
(1,893)	1:48:A:LEU:HD13	1:86:A:ARG:HG2	5	1.58
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	6	1.58
(1,809)	1:73:A:ILE:HD13	1:80:A:GLN:HA	20	1.58
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG21	13	1.58
(1,664)	1:53:A:SER:HB3	1:82:A:LYS:HD2	9	1.58
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	6	1.58
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG12	13	1.58
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	15	1.58
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	12	1.57
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB2	15	1.57
(1,1666)	1:101:A:GLU:H	1:101:A:GLU:HG2	14	1.57
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	1	1.57
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	7	1.57
(1,1015)	1:170:A:ILE:HD11	1:130:A:LEU:HD12	18	1.57
(1,917)	1:74:A:THR:HG21	1:24:A:THR:HA	11	1.57
(1,917)	1:74:A:THR:HG21	1:24:A:THR:HA	13	1.57
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG21	14	1.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,707)	1:48:A:LEU:HD11	1:48:A:LEU:HA	13	1.57
(1,707)	1:48:A:LEU:HD11	1:48:A:LEU:HA	18	1.57
(1,622)	1:148:A:GLU:HG3	1:149:A:ASN:HA	6	1.57
(1,615)	1:113:A:ALA:HB2	1:112:A:PRO:HB2	7	1.57
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	6	1.57
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	16	1.57
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD13	16	1.56
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	5	1.56
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	3	1.56
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	2	1.56
(1,944)	1:138:A:VAL:HG12	1:127:A:VAL:HA	6	1.56
(1,939)	1:153:A:ILE:HD13	1:108:A:HIS:HB2	14	1.56
(1,921)	1:105:A:LEU:HD11	1:97:A:PHE:HE1	12	1.56
(1,921)	1:105:A:LEU:HD12	1:97:A:PHE:HE1	19	1.56
(1,827)	1:91:A:LEU:HD22	1:30:A:PRO:HG3	5	1.56
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	16	1.56
(1,664)	1:53:A:SER:HB3	1:82:A:LYS:HD2	20	1.56
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	7	1.56
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	4	1.56
(1,438)	1:130:A:LEU:HA	1:130:A:LEU:HD11	6	1.56
(1,437)	1:130:A:LEU:HA	1:130:A:LEU:HD23	5	1.56
(1,400)	1:138:A:VAL:HG22	1:154:A:VAL:HG22	12	1.56
(1,400)	1:138:A:VAL:HG23	1:154:A:VAL:HG21	20	1.56
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD12	6	1.56
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD13	7	1.56
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD11	10	1.56
(1,313)	1:154:A:VAL:H	1:154:A:VAL:HG11	6	1.56
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	12	1.56
(1,300)	1:74:A:THR:H	1:55:A:SER:HB2	6	1.56
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG12	11	1.56
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	20	1.55
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG22	9	1.55
(1,1301)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	1	1.55
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	8	1.55
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	9	1.55
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	18	1.55
(1,1030)	1:28:A:PHE:HD1	1:70:A:MET:HB3	18	1.55
(1,939)	1:153:A:ILE:HD11	1:108:A:HIS:HB2	4	1.55
(1,939)	1:153:A:ILE:HD12	1:108:A:HIS:HB2	20	1.55
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	11	1.55
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	15	1.55
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG23	16	1.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,749)	1:62:A:GLU:HB2	1:63:A:THR:HG23	18	1.55
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	16	1.55
(1,525)	1:105:A:LEU:HD12	1:97:A:PHE:HD1	11	1.55
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	3	1.55
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	4	1.55
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG13	18	1.55
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	5	1.54
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	9	1.54
(1,1970)	1:131:A:GLN:H	1:137:A:GLU:HB3	14	1.54
(1,1583)	1:59:A:ALA:HB2	1:70:A:MET:HB2	9	1.54
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	5	1.54
(1,939)	1:153:A:ILE:HD12	1:108:A:HIS:HB2	17	1.54
(1,917)	1:74:A:THR:HG21	1:24:A:THR:HA	17	1.54
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	20	1.54
(1,525)	1:105:A:LEU:HD13	1:97:A:PHE:HD1	16	1.54
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	7	1.54
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	4	1.54
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	8	1.54
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	11	1.54
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG22	16	1.54
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	7	1.54
(1,300)	1:74:A:THR:H	1:55:A:SER:HB2	10	1.54
(1,226)	1:48:A:LEU:HD11	1:87:A:ILE:HA	7	1.54
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG11	17	1.54
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG11	20	1.54
(1,86)	1:90:A:LYS:HA	1:93:A:GLU:HB2	1	1.54
(1,86)	1:90:A:LYS:HA	1:93:A:GLU:HB2	4	1.54
(1,1964)	1:108:A:HIS:H	1:28:A:PHE:HB3	1	1.53
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG22	16	1.53
(1,1583)	1:59:A:ALA:HB1	1:70:A:MET:HB2	2	1.53
(1,1583)	1:59:A:ALA:HB2	1:70:A:MET:HB2	4	1.53
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	6	1.53
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	4	1.53
(1,1017)	1:173:A:ILE:HG21	1:126:A:THR:HG22	10	1.53
(1,830)	1:72:A:VAL:HG22	1:57:A:LYS:HE3	13	1.53
(1,664)	1:53:A:SER:HB3	1:82:A:LYS:HD2	5	1.53
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	5	1.53
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	8	1.53
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	1	1.53
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD11	4	1.53
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	2	1.53
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	14	1.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	3	1.53
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	10	1.53
(1,1666)	1:101:A:GLU:H	1:101:A:GLU:HG2	16	1.52
(1,1619)	1:157:A:ILE:HG23	1:104:A:LYS:HD2	12	1.52
(1,1583)	1:59:A:ALA:HB3	1:70:A:MET:HB2	18	1.52
(1,1426)	1:56:A:ILE:HD11	1:48:A:LEU:HB2	18	1.52
(1,1071)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	1	1.52
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	11	1.52
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD12	7	1.52
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	10	1.52
(1,893)	1:48:A:LEU:HD12	1:86:A:ARG:HG2	13	1.52
(1,831)	1:28:A:PHE:HB2	1:106:A:GLU:HB2	17	1.52
(1,831)	1:28:A:PHE:HB2	1:106:A:GLU:HB2	19	1.52
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG23	7	1.52
(1,698)	1:25:A:VAL:HG12	1:107:A:THR:HB	6	1.52
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	2	1.52
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	16	1.52
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD13	5	1.52
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD11	9	1.52
(1,313)	1:154:A:VAL:H	1:154:A:VAL:HG11	8	1.52
(1,291)	1:152:A:VAL:HG13	1:144:A:GLN:HG2	6	1.52
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG13	14	1.52
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG13	14	1.52
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG13	19	1.52
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG22	1	1.51
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG23	6	1.51
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	1	1.51
(1,1532)	1:177:A:VAL:HG13	1:178:A:LYS:HG2	13	1.51
(1,1426)	1:56:A:ILE:HD11	1:48:A:LEU:HB2	14	1.51
(1,1307)	1:107:A:THR:HG22	1:27:A:VAL:H	6	1.51
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	3	1.51
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD13	1	1.51
(1,984)	1:48:A:LEU:HD21	1:48:A:LEU:HA	8	1.51
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	16	1.51
(1,831)	1:28:A:PHE:HB2	1:106:A:GLU:HB2	12	1.51
(1,831)	1:28:A:PHE:HB2	1:106:A:GLU:HB2	13	1.51
(1,831)	1:28:A:PHE:HB2	1:106:A:GLU:HB2	18	1.51
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB3	12	1.51
(1,664)	1:53:A:SER:HB3	1:82:A:LYS:HD2	4	1.51
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	14	1.51
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	11	1.51
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG22	7	1.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	7	1.51
(1,314)	1:154:A:VAL:H	1:154:A:VAL:HG21	18	1.51
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	18	1.51
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB1	11	1.5
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG23	19	1.5
(1,1666)	1:101:A:GLU:H	1:101:A:GLU:HG2	15	1.5
(1,1555)	1:48:A:LEU:HD22	1:87:A:ILE:HG23	11	1.5
(1,1539)	1:90:A:LYS:HG2	1:91:A:LEU:HD21	20	1.5
(1,1426)	1:56:A:ILE:HD11	1:48:A:LEU:HB2	9	1.5
(1,1370)	1:68:A:VAL:HG22	1:28:A:PHE:HB3	10	1.5
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD13	9	1.5
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	6	1.5
(1,984)	1:48:A:LEU:HD21	1:48:A:LEU:HA	5	1.5
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	12	1.5
(1,827)	1:91:A:LEU:HD23	1:30:A:PRO:HG3	10	1.5
(1,619)	1:78:A:GLU:HG2	1:79:A:ALA:HB1	20	1.5
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	9	1.5
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	17	1.5
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	18	1.5
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	16	1.5
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	14	1.5
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	18	1.5
(1,300)	1:74:A:THR:H	1:55:A:SER:HB2	7	1.5
(1,300)	1:74:A:THR:H	1:55:A:SER:HB2	16	1.5
(1,220)	1:74:A:THR:HG22	1:55:A:SER:HB2	2	1.5
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG13	2	1.5
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG13	12	1.5
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	15	1.5
(1,10)	1:58:A:ILE:H	1:58:A:ILE:HG23	18	1.5
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	17	1.49
(1,1816)	1:68:A:VAL:H	1:66:A:SER:HB3	11	1.49
(1,1816)	1:68:A:VAL:H	1:66:A:SER:HB3	15	1.49
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	20	1.49
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG21	2	1.49
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG22	8	1.49
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG21	10	1.49
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG22	18	1.49
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	5	1.49
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG23	12	1.49
(1,1300)	1:105:A:LEU:HD13	1:29:A:ILE:HG21	15	1.49
(1,1127)	1:94:A:GLU:H	1:93:A:GLU:HG3	8	1.49
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD12	14	1.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	17	1.49
(1,984)	1:48:A:LEU:HD21	1:48:A:LEU:HA	2	1.49
(1,830)	1:72:A:VAL:HG23	1:57:A:LYS:HE3	19	1.49
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG22	18	1.49
(1,691)	1:103:A:VAL:HG21	1:105:A:LEU:HD22	11	1.49
(1,664)	1:53:A:SER:HB3	1:82:A:LYS:HD2	13	1.49
(1,622)	1:148:A:GLU:HG3	1:149:A:ASN:HA	5	1.49
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	17	1.49
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	19	1.49
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	17	1.49
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG11	9	1.49
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG12	15	1.49
(1,86)	1:90:A:LYS:HA	1:93:A:GLU:HB2	12	1.49
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	18	1.48
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	11	1.48
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG22	3	1.48
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG22	5	1.48
(1,1664)	1:101:A:GLU:H	1:100:A:LYS:HG2	7	1.48
(1,1600)	1:138:A:VAL:HG12	1:127:A:VAL:HG22	14	1.48
(1,1583)	1:59:A:ALA:HB1	1:70:A:MET:HB2	16	1.48
(1,1581)	1:48:A:LEU:HG	1:56:A:ILE:HD13	16	1.48
(1,1322)	1:155:A:LYS:H	1:154:A:VAL:HG22	15	1.48
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	14	1.48
(1,1127)	1:94:A:GLU:H	1:93:A:GLU:HG3	7	1.48
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD13	15	1.48
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	10	1.48
(1,933)	1:109:A:ILE:HD13	1:109:A:ILE:HA	3	1.48
(1,921)	1:105:A:LEU:HD12	1:97:A:PHE:HE1	13	1.48
(1,831)	1:28:A:PHE:HB2	1:106:A:GLU:HB2	16	1.48
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	20	1.48
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	6	1.48
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	18	1.48
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	15	1.48
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	20	1.48
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	8	1.48
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG23	20	1.48
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	3	1.48
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD11	2	1.48
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	15	1.48
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	11	1.48
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG21	5	1.47
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG23	6	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG21	8	1.47
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	3	1.47
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	16	1.47
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG22	4	1.47
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	7	1.47
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG23	11	1.47
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG23	15	1.47
(1,1426)	1:56:A:ILE:HD12	1:48:A:LEU:HB2	3	1.47
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD12	10	1.47
(1,1322)	1:155:A:LYS:H	1:154:A:VAL:HG23	12	1.47
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD11	4	1.47
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	12	1.47
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	13	1.47
(1,984)	1:48:A:LEU:HD21	1:48:A:LEU:HA	10	1.47
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG22	8	1.47
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	1	1.47
(1,602)	1:144:A:GLN:HG2	1:141:A:PRO:HD2	12	1.47
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD11	1	1.47
(1,291)	1:152:A:VAL:HG12	1:144:A:GLN:HG2	8	1.47
(1,244)	1:29:A:ILE:HD12	1:29:A:ILE:HG22	8	1.47
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG12	5	1.47
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG13	8	1.47
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG13	15	1.47
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG13	17	1.47
(1,86)	1:90:A:LYS:HA	1:93:A:GLU:HB2	5	1.47
(1,86)	1:90:A:LYS:HA	1:93:A:GLU:HB2	15	1.47
(1,1919)	1:55:A:SER:H	1:73:A:ILE:HD13	7	1.46
(1,1816)	1:68:A:VAL:H	1:66:A:SER:HB3	13	1.46
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD12	11	1.46
(1,1300)	1:105:A:LEU:HD12	1:29:A:ILE:HG23	13	1.46
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD13	16	1.46
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	2	1.46
(1,984)	1:48:A:LEU:HD21	1:48:A:LEU:HA	6	1.46
(1,933)	1:109:A:ILE:HD12	1:109:A:ILE:HA	1	1.46
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	4	1.46
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	9	1.46
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG12	3	1.46
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG11	3	1.46
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG11	5	1.46
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG11	11	1.46
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG11	12	1.46
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG11	18	1.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG13	19	1.46
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG22	1	1.45
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	19	1.45
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD13	10	1.45
(1,1619)	1:157:A:ILE:HG23	1:104:A:LYS:HD2	19	1.45
(1,1593)	1:58:A:ILE:HD13	1:71:A:VAL:HA	18	1.45
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG23	18	1.45
(1,1349)	1:34:A:VAL:HG12	1:58:A:ILE:HG21	18	1.45
(1,1307)	1:107:A:THR:HG23	1:27:A:VAL:H	9	1.45
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD12	2	1.45
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	19	1.45
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD12	3	1.45
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	19	1.45
(1,933)	1:109:A:ILE:HD12	1:109:A:ILE:HA	15	1.45
(1,933)	1:109:A:ILE:HD13	1:109:A:ILE:HA	18	1.45
(1,830)	1:72:A:VAL:HG22	1:57:A:LYS:HE3	12	1.45
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	2	1.45
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	5	1.45
(1,619)	1:78:A:GLU:HG2	1:79:A:ALA:HB1	10	1.45
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	13	1.45
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	3	1.45
(1,335)	1:24:A:THR:H	1:24:A:THR:HG23	20	1.45
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	13	1.45
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG13	2	1.45
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG12	4	1.45
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG11	8	1.45
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	8	1.44
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	4	1.44
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG23	19	1.44
(1,1821)	1:165:A:MET:H	1:164:A:GLN:HG2	14	1.44
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG22	15	1.44
(1,1582)	1:59:A:ALA:HB3	1:70:A:MET:HG3	8	1.44
(1,1410)	1:104:A:LYS:HB2	1:157:A:ILE:HG23	12	1.44
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD13	9	1.44
(1,1370)	1:68:A:VAL:HG22	1:28:A:PHE:HB3	2	1.44
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD12	11	1.44
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD12	9	1.44
(1,933)	1:109:A:ILE:HD12	1:109:A:ILE:HA	4	1.44
(1,933)	1:109:A:ILE:HD12	1:109:A:ILE:HA	9	1.44
(1,933)	1:109:A:ILE:HD12	1:109:A:ILE:HA	10	1.44
(1,921)	1:105:A:LEU:HD13	1:97:A:PHE:HE1	5	1.44
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	3	1.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	6	1.44
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	12	1.44
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	11	1.44
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	18	1.44
(1,335)	1:24:A:THR:H	1:24:A:THR:HG21	12	1.44
(1,335)	1:24:A:THR:H	1:24:A:THR:HG21	14	1.44
(1,335)	1:24:A:THR:H	1:24:A:THR:HG23	16	1.44
(1,335)	1:24:A:THR:H	1:24:A:THR:HG22	18	1.44
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG21	2	1.44
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG23	12	1.44
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG23	16	1.44
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG12	10	1.44
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG11	14	1.44
(1,86)	1:90:A:LYS:HA	1:93:A:GLU:HB2	13	1.44
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	7	1.43
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG22	3	1.43
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	4	1.43
(1,1816)	1:68:A:VAL:H	1:66:A:SER:HB3	12	1.43
(1,1816)	1:68:A:VAL:H	1:66:A:SER:HB3	17	1.43
(1,1426)	1:56:A:ILE:HD11	1:48:A:LEU:HB2	15	1.43
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD13	6	1.43
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD13	8	1.43
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD11	10	1.43
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD11	14	1.43
(1,984)	1:48:A:LEU:HD21	1:48:A:LEU:HA	4	1.43
(1,984)	1:48:A:LEU:HD23	1:48:A:LEU:HA	7	1.43
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	16	1.43
(1,933)	1:109:A:ILE:HD12	1:109:A:ILE:HA	6	1.43
(1,874)	1:104:A:LYS:HE2	1:104:A:LYS:HB3	13	1.43
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	11	1.43
(1,335)	1:24:A:THR:H	1:24:A:THR:HG23	4	1.43
(1,335)	1:24:A:THR:H	1:24:A:THR:HG21	13	1.43
(1,335)	1:24:A:THR:H	1:24:A:THR:HG23	19	1.43
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG21	3	1.43
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG22	6	1.43
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG13	6	1.43
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	18	1.43
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG23	11	1.42
(1,1821)	1:165:A:MET:H	1:164:A:GLN:HG2	6	1.42
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG21	17	1.42
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	19	1.42
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG21	19	1.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1370)	1:68:A:VAL:HG23	1:28:A:PHE:HB3	4	1.42
(1,1370)	1:68:A:VAL:HG23	1:28:A:PHE:HB3	9	1.42
(1,1307)	1:107:A:THR:HG21	1:27:A:VAL:H	3	1.42
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD11	19	1.42
(1,1017)	1:173:A:ILE:HG23	1:126:A:THR:HG23	14	1.42
(1,939)	1:153:A:ILE:HD13	1:108:A:HIS:HB2	10	1.42
(1,933)	1:109:A:ILE:HD12	1:109:A:ILE:HA	12	1.42
(1,933)	1:109:A:ILE:HD11	1:109:A:ILE:HA	19	1.42
(1,698)	1:25:A:VAL:HG11	1:107:A:THR:HB	9	1.42
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	14	1.42
(1,602)	1:144:A:GLN:HG2	1:141:A:PRO:HD2	11	1.42
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG13	14	1.42
(1,335)	1:24:A:THR:H	1:24:A:THR:HG23	1	1.42
(1,335)	1:24:A:THR:H	1:24:A:THR:HG23	15	1.42
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG21	1	1.42
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG21	7	1.42
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG23	8	1.42
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG11	1	1.42
(1,86)	1:90:A:LYS:HA	1:93:A:GLU:HB2	18	1.42
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	10	1.42
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	14	1.41
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG22	15	1.41
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG22	12	1.41
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG22	17	1.41
(1,1583)	1:59:A:ALA:HB1	1:70:A:MET:HB2	14	1.41
(1,1471)	1:161:A:TYR:HB3	1:161:A:TYR:HE1	14	1.41
(1,1370)	1:68:A:VAL:HG22	1:28:A:PHE:HB3	5	1.41
(1,1307)	1:107:A:THR:HG22	1:27:A:VAL:H	4	1.41
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD11	7	1.41
(1,1006)	1:83:A:ALA:HB2	1:73:A:ILE:HB	20	1.41
(1,830)	1:72:A:VAL:HG23	1:57:A:LYS:HE3	17	1.41
(1,698)	1:25:A:VAL:HG13	1:107:A:THR:HB	18	1.41
(1,664)	1:53:A:SER:HB3	1:82:A:LYS:HD2	15	1.41
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	15	1.41
(1,615)	1:113:A:ALA:HB3	1:112:A:PRO:HB2	12	1.41
(1,615)	1:113:A:ALA:HB3	1:112:A:PRO:HB2	18	1.41
(1,594)	1:88:A:TYR:HA	1:105:A:LEU:HD23	20	1.41
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD12	20	1.41
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG21	19	1.41
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	2	1.41
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD11	9	1.41
(1,335)	1:24:A:THR:H	1:24:A:THR:HG23	11	1.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,335)	1:24:A:THR:H	1:24:A:THR:HG23	17	1.41
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG21	5	1.41
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG21	9	1.41
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG23	18	1.41
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG11	9	1.41
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	19	1.4
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	1	1.4
(1,2172)	1:100:A:LYS:H	1:100:A:LYS:HD2	10	1.4
(1,2112)	1:75:A:GLY:H	1:80:A:GLN:HE22	11	1.4
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB3	20	1.4
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG21	3	1.4
(1,1821)	1:165:A:MET:H	1:164:A:GLN:HG2	7	1.4
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	2	1.4
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD11	5	1.4
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG22	11	1.4
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	14	1.4
(1,1594)	1:27:A:VAL:H	1:71:A:VAL:HB	13	1.4
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD12	19	1.4
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD13	5	1.4
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD11	5	1.4
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	2	1.4
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	3	1.4
(1,830)	1:72:A:VAL:HG21	1:57:A:LYS:HE3	15	1.4
(1,830)	1:72:A:VAL:HG21	1:57:A:LYS:HE3	18	1.4
(1,728)	1:88:A:TYR:HA	1:103:A:VAL:HG12	20	1.4
(1,698)	1:25:A:VAL:HG12	1:107:A:THR:HB	2	1.4
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	14	1.4
(1,619)	1:78:A:GLU:HG2	1:79:A:ALA:HB3	3	1.4
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD11	10	1.4
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	19	1.4
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD12	16	1.4
(1,335)	1:24:A:THR:H	1:24:A:THR:HG21	6	1.4
(1,335)	1:24:A:THR:H	1:24:A:THR:HG23	7	1.4
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG21	7	1.4
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG22	19	1.4
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG12	15	1.4
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB3	3	1.39
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB1	6	1.39
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG22	4	1.39
(1,1307)	1:107:A:THR:HG21	1:27:A:VAL:H	18	1.39
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD13	18	1.39
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	8	1.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,933)	1:109:A:ILE:HD13	1:109:A:ILE:HA	2	1.39
(1,933)	1:109:A:ILE:HD12	1:109:A:ILE:HA	17	1.39
(1,917)	1:74:A:THR:HG23	1:24:A:THR:HA	12	1.39
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	2	1.39
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	4	1.39
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	9	1.39
(1,874)	1:104:A:LYS:HE2	1:104:A:LYS:HB3	19	1.39
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	1	1.39
(1,615)	1:113:A:ALA:HB3	1:112:A:PRO:HB2	15	1.39
(1,525)	1:105:A:LEU:HD11	1:97:A:PHE:HD1	6	1.39
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	12	1.39
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG21	2	1.39
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	5	1.39
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG21	4	1.39
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG21	11	1.39
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG21	15	1.39
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG11	6	1.39
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG12	16	1.39
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	2	1.38
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	1	1.38
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	3	1.38
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	13	1.38
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG21	9	1.38
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG22	14	1.38
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG22	17	1.38
(1,1687)	1:177:A:VAL:H	1:177:A:VAL:HG22	14	1.38
(1,1532)	1:177:A:VAL:HG13	1:178:A:LYS:HG2	7	1.38
(1,984)	1:48:A:LEU:HD22	1:48:A:LEU:HA	1	1.38
(1,984)	1:48:A:LEU:HD22	1:48:A:LEU:HA	3	1.38
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	13	1.38
(1,933)	1:109:A:ILE:HD11	1:109:A:ILE:HA	16	1.38
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	6	1.38
(1,893)	1:48:A:LEU:HD13	1:86:A:ARG:HG2	14	1.38
(1,698)	1:25:A:VAL:HG11	1:107:A:THR:HB	3	1.38
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	11	1.38
(1,615)	1:113:A:ALA:HB1	1:112:A:PRO:HB2	11	1.38
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD11	13	1.38
(1,561)	1:76:A:PRO:HG3	1:79:A:ALA:HA	12	1.38
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG21	8	1.38
(1,335)	1:24:A:THR:H	1:24:A:THR:HG23	8	1.38
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG21	13	1.38
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG22	14	1.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,291)	1:152:A:VAL:HG11	1:144:A:GLN:HG2	16	1.38
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG13	10	1.38
(1,86)	1:90:A:LYS:HA	1:93:A:GLU:HB2	11	1.38
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	4	1.37
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	13	1.37
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	6	1.37
(1,1403)	1:37:A:ILE:HG23	1:29:A:ILE:HD13	20	1.37
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD12	1	1.37
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD13	13	1.37
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD12	14	1.37
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	17	1.37
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	19	1.37
(1,933)	1:109:A:ILE:HD11	1:109:A:ILE:HA	14	1.37
(1,911)	1:176:A:GLN:HG3	1:175:A:ALA:HB1	10	1.37
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	1	1.37
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	5	1.37
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	9	1.37
(1,798)	1:48:A:LEU:HD11	1:48:A:LEU:HB3	4	1.37
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	7	1.37
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	8	1.37
(1,664)	1:53:A:SER:HB3	1:82:A:LYS:HD2	19	1.37
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	7	1.37
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	5	1.37
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG23	7	1.37
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD13	16	1.37
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG23	2	1.37
(1,86)	1:90:A:LYS:HA	1:93:A:GLU:HB2	16	1.37
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	8	1.36
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG23	14	1.36
(1,1488)	1:45:A:ILE:HD13	1:45:A:ILE:HG22	11	1.36
(1,1426)	1:56:A:ILE:HD11	1:48:A:LEU:HB2	13	1.36
(1,1110)	1:158:A:GLY:H	1:157:A:ILE:HD13	20	1.36
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD13	11	1.36
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	5	1.36
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	9	1.36
(1,933)	1:109:A:ILE:HD11	1:109:A:ILE:HA	7	1.36
(1,933)	1:109:A:ILE:HD13	1:109:A:ILE:HA	13	1.36
(1,925)	1:107:A:THR:HA	1:27:A:VAL:HG11	13	1.36
(1,830)	1:72:A:VAL:HG22	1:57:A:LYS:HE3	20	1.36
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	6	1.36
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	12	1.36
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	20	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	12	1.36
(1,335)	1:24:A:THR:H	1:24:A:THR:HG22	5	1.36
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG21	10	1.36
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	11	1.36
(1,228)	1:109:A:ILE:HG23	1:171:A:ARG:HD2	9	1.36
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	20	1.35
(1,1821)	1:165:A:MET:H	1:164:A:GLN:HG2	1	1.35
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	19	1.35
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD13	9	1.35
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	16	1.35
(1,1426)	1:56:A:ILE:HD13	1:48:A:LEU:HB2	20	1.35
(1,1301)	1:105:A:LEU:HD12	1:88:A:TYR:HE1	3	1.35
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD12	8	1.35
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	6	1.35
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD11	17	1.35
(1,939)	1:153:A:ILE:HD12	1:108:A:HIS:HB2	12	1.35
(1,830)	1:72:A:VAL:HG22	1:57:A:LYS:HE3	14	1.35
(1,798)	1:48:A:LEU:HD12	1:48:A:LEU:HB3	7	1.35
(1,728)	1:88:A:TYR:HA	1:103:A:VAL:HG11	14	1.35
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	13	1.35
(1,698)	1:25:A:VAL:HG12	1:107:A:THR:HB	1	1.35
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG22	8	1.35
(1,335)	1:24:A:THR:H	1:24:A:THR:HG23	10	1.35
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG22	17	1.35
(1,215)	1:115:A:ALA:HB1	1:177:A:VAL:HG23	7	1.35
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG12	4	1.35
(1,86)	1:90:A:LYS:HA	1:93:A:GLU:HB2	10	1.35
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	4	1.34
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	9	1.34
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	20	1.34
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG21	7	1.34
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	8	1.34
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	10	1.34
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	10	1.34
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	12	1.34
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG22	18	1.34
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	10	1.34
(1,1804)	1:35:A:GLY:H	1:34:A:VAL:HG21	10	1.34
(1,1619)	1:157:A:ILE:HG22	1:104:A:LYS:HD2	13	1.34
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	16	1.34
(1,1557)	1:90:A:LYS:HB2	1:90:A:LYS:HD3	11	1.34
(1,1410)	1:104:A:LYS:HB2	1:157:A:ILE:HG23	8	1.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	14	1.34
(1,1300)	1:105:A:LEU:HD11	1:29:A:ILE:HG22	12	1.34
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD12	14	1.34
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	20	1.34
(1,966)	1:91:A:LEU:HG	1:97:A:PHE:HE1	4	1.34
(1,798)	1:48:A:LEU:HD13	1:48:A:LEU:HB3	3	1.34
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG23	17	1.34
(1,400)	1:138:A:VAL:HG22	1:154:A:VAL:HG21	11	1.34
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	6	1.34
(1,335)	1:24:A:THR:H	1:24:A:THR:HG23	9	1.34
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	18	1.34
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD22	16	1.34
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	7	1.33
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	10	1.33
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	15	1.33
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	16	1.33
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	18	1.33
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	2	1.33
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	7	1.33
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG23	13	1.33
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	20	1.33
(1,1557)	1:90:A:LYS:HB2	1:90:A:LYS:HD3	16	1.33
(1,1426)	1:56:A:ILE:HD12	1:48:A:LEU:HB2	12	1.33
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	17	1.33
(1,1307)	1:107:A:THR:HG23	1:27:A:VAL:H	2	1.33
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	14	1.33
(1,933)	1:109:A:ILE:HD12	1:109:A:ILE:HA	11	1.33
(1,933)	1:109:A:ILE:HD12	1:109:A:ILE:HA	20	1.33
(1,917)	1:74:A:THR:HG22	1:24:A:THR:HA	15	1.33
(1,827)	1:91:A:LEU:HD22	1:30:A:PRO:HG3	20	1.33
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	4	1.33
(1,698)	1:25:A:VAL:HG11	1:107:A:THR:HB	4	1.33
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	16	1.33
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	18	1.33
(1,525)	1:105:A:LEU:HD13	1:97:A:PHE:HD1	10	1.33
(1,519)	1:142:A:ARG:H	1:141:A:PRO:HG2	18	1.33
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG21	10	1.33
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD13	18	1.33
(1,321)	1:153:A:ILE:H	1:153:A:ILE:HG21	20	1.33
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	1	1.32
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	3	1.32
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	5	1.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	8	1.32
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	14	1.32
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	5	1.32
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG21	2	1.32
(1,2112)	1:75:A:GLY:H	1:80:A:GLN:HE22	5	1.32
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB1	8	1.32
(1,1964)	1:108:A:HIS:H	1:28:A:PHE:HB3	3	1.32
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	8	1.32
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	11	1.32
(1,1557)	1:90:A:LYS:HB2	1:90:A:LYS:HD3	12	1.32
(1,1557)	1:90:A:LYS:HB2	1:90:A:LYS:HD3	13	1.32
(1,1557)	1:90:A:LYS:HB2	1:90:A:LYS:HD3	15	1.32
(1,1557)	1:90:A:LYS:HB2	1:90:A:LYS:HD3	18	1.32
(1,1545)	1:166:A:ALA:HB2	1:130:A:LEU:HD22	17	1.32
(1,1436)	1:130:A:LEU:H	1:130:A:LEU:HD23	6	1.32
(1,1305)	1:63:A:THR:HG22	1:64:A:PRO:HD2	6	1.32
(1,1305)	1:63:A:THR:HG21	1:64:A:PRO:HD2	8	1.32
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	13	1.32
(1,1192)	1:181:A:HIS:HB3	1:178:A:LYS:HA	7	1.32
(1,1071)	1:105:A:LEU:HD12	1:88:A:TYR:HE1	3	1.32
(1,911)	1:176:A:GLN:HG3	1:175:A:ALA:HB2	18	1.32
(1,802)	1:50:A:ARG:HD2	1:50:A:ARG:HB2	7	1.32
(1,802)	1:50:A:ARG:HD2	1:50:A:ARG:HB2	15	1.32
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	11	1.32
(1,664)	1:53:A:SER:HB3	1:82:A:LYS:HD2	16	1.32
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD12	12	1.32
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD13	13	1.32
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD13	20	1.32
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	10	1.32
(1,449)	1:71:A:VAL:H	1:71:A:VAL:HG22	14	1.32
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG22	1	1.32
(1,335)	1:24:A:THR:H	1:24:A:THR:HG23	2	1.32
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	6	1.31
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	11	1.31
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	9	1.31
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	16	1.31
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG22	5	1.31
(1,1755)	1:21:A:GLU:H	1:21:A:GLU:HG2	2	1.31
(1,1632)	1:139:A:VAL:H	1:138:A:VAL:HG22	14	1.31
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	6	1.31
(1,1557)	1:90:A:LYS:HB2	1:90:A:LYS:HD3	14	1.31
(1,1557)	1:90:A:LYS:HB2	1:90:A:LYS:HD3	17	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1557)	1:90:A:LYS:HB2	1:90:A:LYS:HD3	20	1.31
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	18	1.31
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD11	17	1.31
(1,933)	1:109:A:ILE:HD12	1:109:A:ILE:HA	5	1.31
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	14	1.31
(1,712)	1:88:A:TYR:HD1	1:103:A:VAL:HG23	16	1.31
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	7	1.31
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD13	15	1.31
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD12	17	1.31
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG22	6	1.31
(1,221)	1:104:A:LYS:HE2	1:104:A:LYS:HG3	13	1.31
(1,221)	1:104:A:LYS:HE2	1:104:A:LYS:HG3	19	1.31
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	14	1.31
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	2	1.3
(1,2172)	1:100:A:LYS:H	1:100:A:LYS:HD2	11	1.3
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	14	1.3
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG22	2	1.3
(1,1583)	1:59:A:ALA:HB1	1:70:A:MET:HB2	6	1.3
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD13	13	1.3
(1,1300)	1:105:A:LEU:HD12	1:29:A:ILE:HG21	5	1.3
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	1	1.3
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD13	10	1.3
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	15	1.3
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	4	1.3
(1,933)	1:109:A:ILE:HD13	1:109:A:ILE:HA	8	1.3
(1,911)	1:176:A:GLN:HG3	1:175:A:ALA:HB2	12	1.3
(1,856)	1:56:A:ILE:HD12	1:49:A:SER:HA	16	1.3
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD11	19	1.3
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD11	12	1.3
(1,335)	1:24:A:THR:H	1:24:A:THR:HG23	3	1.3
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	9	1.3
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	20	1.3
(1,86)	1:90:A:LYS:HA	1:93:A:GLU:HB2	17	1.3
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	20	1.3
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	12	1.29
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	13	1.29
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB3	14	1.29
(1,1816)	1:68:A:VAL:H	1:66:A:SER:HB3	19	1.29
(1,1755)	1:21:A:GLU:H	1:21:A:GLU:HG2	16	1.29
(1,1632)	1:139:A:VAL:H	1:138:A:VAL:HG22	6	1.29
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG23	4	1.29
(1,1583)	1:59:A:ALA:HB2	1:70:A:MET:HB2	5	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1426)	1:56:A:ILE:HD13	1:48:A:LEU:HB2	17	1.29
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD12	6	1.29
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	12	1.29
(1,1053)	1:108:A:HIS:HD2	1:106:A:GLU:HG2	11	1.29
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	17	1.29
(1,982)	1:48:A:LEU:HD21	1:48:A:LEU:HB3	9	1.29
(1,798)	1:48:A:LEU:HD13	1:48:A:LEU:HB3	1	1.29
(1,798)	1:48:A:LEU:HD12	1:48:A:LEU:HB3	10	1.29
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG23	6	1.29
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG21	20	1.29
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG23	8	1.29
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG13	17	1.29
(1,2196)	1:147:A:ASP:H	1:146:A:PRO:HG2	17	1.28
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG21	12	1.28
(1,1821)	1:165:A:MET:H	1:164:A:GLN:HG2	17	1.28
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	7	1.28
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD11	17	1.28
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	14	1.28
(1,830)	1:72:A:VAL:HG23	1:57:A:LYS:HE3	11	1.28
(1,827)	1:91:A:LEU:HD22	1:30:A:PRO:HG3	18	1.28
(1,802)	1:50:A:ARG:HD2	1:50:A:ARG:HB2	11	1.28
(1,798)	1:48:A:LEU:HD12	1:48:A:LEU:HB3	5	1.28
(1,677)	1:94:A:GLU:HG2	1:90:A:LYS:HG2	17	1.28
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD21	9	1.28
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG22	8	1.28
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD21	5	1.28
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG23	3	1.28
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG23	4	1.28
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	12	1.28
(1,126)	1:112:A:PRO:HD3	1:111:A:VAL:HG12	1	1.28
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	19	1.28
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	17	1.27
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB2	7	1.27
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG21	10	1.27
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG23	16	1.27
(1,1742)	1:98:A:GLY:H	1:99:A:PRO:HD2	5	1.27
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	15	1.27
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG23	5	1.27
(1,1530)	1:174:A:LEU:HD21	1:177:A:VAL:HG11	7	1.27
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	14	1.27
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	19	1.27
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	9	1.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,889)	1:96:A:PHE:HE1	1:36:A:ALA:HB3	9	1.27
(1,817)	1:130:A:LEU:HD21	1:130:A:LEU:HB3	9	1.27
(1,817)	1:130:A:LEU:HD22	1:130:A:LEU:HB3	10	1.27
(1,817)	1:130:A:LEU:HD21	1:130:A:LEU:HB3	13	1.27
(1,817)	1:130:A:LEU:HD23	1:130:A:LEU:HB3	15	1.27
(1,798)	1:48:A:LEU:HD11	1:48:A:LEU:HB3	6	1.27
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	8	1.27
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	12	1.27
(1,698)	1:25:A:VAL:HG12	1:107:A:THR:HB	16	1.27
(1,602)	1:144:A:GLN:HG2	1:141:A:PRO:HD2	7	1.27
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD12	16	1.27
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD13	17	1.27
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG22	3	1.27
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG23	6	1.27
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG21	7	1.27
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG21	10	1.27
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG22	19	1.27
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	12	1.27
(1,2172)	1:100:A:LYS:H	1:100:A:LYS:HD2	3	1.26
(1,2172)	1:100:A:LYS:H	1:100:A:LYS:HD2	8	1.26
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	5	1.26
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB1	9	1.26
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	4	1.26
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	2	1.26
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	20	1.26
(1,1308)	1:154:A:VAL:HG12	1:153:A:ILE:HA	15	1.26
(1,1307)	1:107:A:THR:HG22	1:27:A:VAL:H	1	1.26
(1,1305)	1:63:A:THR:HG21	1:64:A:PRO:HD2	1	1.26
(1,1305)	1:63:A:THR:HG21	1:64:A:PRO:HD2	2	1.26
(1,1305)	1:63:A:THR:HG21	1:64:A:PRO:HD2	9	1.26
(1,1250)	1:58:A:ILE:HD13	1:58:A:ILE:HB	17	1.26
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD11	15	1.26
(1,827)	1:91:A:LEU:HD21	1:30:A:PRO:HG3	16	1.26
(1,817)	1:130:A:LEU:HD21	1:130:A:LEU:HB3	17	1.26
(1,809)	1:73:A:ILE:HD11	1:80:A:GLN:HA	12	1.26
(1,802)	1:50:A:ARG:HD2	1:50:A:ARG:HB2	17	1.26
(1,798)	1:48:A:LEU:HD11	1:48:A:LEU:HB3	8	1.26
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG22	2	1.26
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG22	4	1.26
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	16	1.26
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG23	5	1.26
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG21	19	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	16	1.26
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	15	1.26
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG23	5	1.25
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG21	10	1.25
(1,1742)	1:98:A:GLY:H	1:99:A:PRO:HD2	6	1.25
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG23	3	1.25
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG23	8	1.25
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG22	10	1.25
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	11	1.25
(1,1426)	1:56:A:ILE:HD13	1:48:A:LEU:HB2	19	1.25
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD13	3	1.25
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	7	1.25
(1,925)	1:107:A:THR:HA	1:27:A:VAL:HG11	14	1.25
(1,802)	1:50:A:ARG:HD2	1:50:A:ARG:HB2	13	1.25
(1,799)	1:48:A:LEU:HD13	1:48:A:LEU:HB2	11	1.25
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD12	16	1.25
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD12	20	1.25
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG22	9	1.25
(1,441)	1:173:A:ILE:HG22	1:118:A:ARG:HB2	16	1.25
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	7	1.25
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	20	1.25
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	17	1.25
(1,2349)	1:127:A:VAL:HG11	2:4:B:G:H1'	5	1.24
(1,2349)	1:127:A:VAL:HG12	2:4:B:G:H1'	5	1.24
(1,2349)	1:127:A:VAL:HG13	2:4:B:G:H1'	5	1.24
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG22	17	1.24
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	15	1.24
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	16	1.24
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	9	1.24
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	13	1.24
(1,1594)	1:27:A:VAL:H	1:71:A:VAL:HB	19	1.24
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	15	1.24
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	18	1.24
(1,1305)	1:63:A:THR:HG23	1:64:A:PRO:HD2	7	1.24
(1,1301)	1:105:A:LEU:HD12	1:88:A:TYR:HE1	14	1.24
(1,1250)	1:58:A:ILE:HD12	1:58:A:ILE:HB	19	1.24
(1,1063)	1:103:A:VAL:HG22	1:97:A:PHE:HE1	15	1.24
(1,971)	1:52:A:ALA:HB2	1:56:A:ILE:HD13	16	1.24
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	15	1.24
(1,961)	1:178:A:LYS:HE2	1:178:A:LYS:HB2	15	1.24
(1,889)	1:96:A:PHE:HE1	1:36:A:ALA:HB1	4	1.24
(1,802)	1:50:A:ARG:HD2	1:50:A:ARG:HB2	1	1.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD22	1	1.24
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD21	6	1.24
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD21	8	1.24
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD22	11	1.24
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD22	13	1.24
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD23	16	1.24
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD23	17	1.24
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD21	19	1.24
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD21	20	1.24
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG22	1	1.24
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG22	5	1.24
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD11	6	1.24
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD11	12	1.24
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD13	15	1.24
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG23	17	1.24
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG21	18	1.24
(1,302)	1:56:A:ILE:H	1:55:A:SER:HB2	19	1.24
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	11	1.24
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	15	1.24
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG22	10	1.23
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	11	1.23
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	12	1.23
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	14	1.23
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	18	1.23
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	6	1.23
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG22	7	1.23
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG22	20	1.23
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	10	1.23
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	16	1.23
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	17	1.23
(1,1755)	1:21:A:GLU:H	1:21:A:GLU:HG2	5	1.23
(1,1755)	1:21:A:GLU:H	1:21:A:GLU:HG2	11	1.23
(1,1742)	1:98:A:GLY:H	1:99:A:PRO:HD2	1	1.23
(1,1742)	1:98:A:GLY:H	1:99:A:PRO:HD2	8	1.23
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	18	1.23
(1,1545)	1:166:A:ALA:HB3	1:130:A:LEU:HD21	15	1.23
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	16	1.23
(1,1250)	1:58:A:ILE:HD13	1:58:A:ILE:HB	10	1.23
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	18	1.23
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	4	1.23
(1,966)	1:91:A:LEU:HG	1:97:A:PHE:HE1	3	1.23
(1,966)	1:91:A:LEU:HG	1:97:A:PHE:HE1	9	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,893)	1:48:A:LEU:HD13	1:86:A:ARG:HG2	10	1.23
(1,889)	1:96:A:PHE:HE1	1:36:A:ALA:HB2	3	1.23
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	8	1.23
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	9	1.23
(1,834)	1:45:A:ILE:HD12	1:57:A:LYS:HA	14	1.23
(1,827)	1:91:A:LEU:HD23	1:30:A:PRO:HG3	11	1.23
(1,809)	1:73:A:ILE:HD12	1:80:A:GLN:HA	13	1.23
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG22	9	1.23
(1,705)	1:96:A:PHE:HD1	1:36:A:ALA:HB2	17	1.23
(1,691)	1:103:A:VAL:HG21	1:105:A:LEU:HD21	1	1.23
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD22	2	1.23
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD22	4	1.23
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD22	7	1.23
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD22	10	1.23
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD21	12	1.23
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD21	14	1.23
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD22	15	1.23
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD22	18	1.23
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD13	1	1.23
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD13	6	1.23
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD13	7	1.23
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD13	20	1.23
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG23	3	1.23
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG23	14	1.23
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	18	1.23
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	14	1.23
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	17	1.23
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	13	1.23
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG23	4	1.22
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG21	18	1.22
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	20	1.22
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB1	1	1.22
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	9	1.22
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG22	8	1.22
(1,1804)	1:35:A:GLY:H	1:34:A:VAL:HG21	13	1.22
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	3	1.22
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	11	1.22
(1,1632)	1:139:A:VAL:H	1:138:A:VAL:HG23	16	1.22
(1,1600)	1:138:A:VAL:HG12	1:127:A:VAL:HG22	6	1.22
(1,1557)	1:90:A:LYS:HB2	1:90:A:LYS:HD3	19	1.22
(1,1555)	1:48:A:LEU:HD23	1:87:A:ILE:HG21	9	1.22
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	6	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	12	1.22
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	13	1.22
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	20	1.22
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	16	1.22
(1,1305)	1:63:A:THR:HG21	1:64:A:PRO:HD2	3	1.22
(1,1305)	1:63:A:THR:HG21	1:64:A:PRO:HD2	4	1.22
(1,1305)	1:63:A:THR:HG23	1:64:A:PRO:HD2	10	1.22
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	17	1.22
(1,1250)	1:58:A:ILE:HD12	1:58:A:ILE:HB	13	1.22
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	5	1.22
(1,966)	1:91:A:LEU:HG	1:97:A:PHE:HE1	2	1.22
(1,966)	1:91:A:LEU:HG	1:97:A:PHE:HE1	6	1.22
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	18	1.22
(1,893)	1:48:A:LEU:HD12	1:86:A:ARG:HG2	6	1.22
(1,889)	1:96:A:PHE:HE1	1:36:A:ALA:HB1	6	1.22
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	2	1.22
(1,827)	1:91:A:LEU:HD21	1:30:A:PRO:HG3	14	1.22
(1,798)	1:48:A:LEU:HD11	1:48:A:LEU:HB3	2	1.22
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	17	1.22
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD21	3	1.22
(1,643)	1:174:A:LEU:HB2	1:174:A:LEU:HD21	5	1.22
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD13	2	1.22
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD13	3	1.22
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD11	4	1.22
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD13	5	1.22
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD12	8	1.22
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD12	9	1.22
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD13	10	1.22
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD11	11	1.22
(1,441)	1:173:A:ILE:HG22	1:118:A:ARG:HB2	14	1.22
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	8	1.22
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG23	17	1.22
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	3	1.22
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	19	1.22
(1,210)	1:45:A:ILE:HG12	1:56:A:ILE:HG22	16	1.22
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	12	1.22
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	18	1.22
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	13	1.21
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG23	1	1.21
(1,1804)	1:35:A:GLY:H	1:34:A:VAL:HG21	18	1.21
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	13	1.21
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	14	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	16	1.21
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	7	1.21
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	17	1.21
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD13	7	1.21
(1,1370)	1:68:A:VAL:HG21	1:28:A:PHE:HB3	18	1.21
(1,1250)	1:58:A:ILE:HD13	1:58:A:ILE:HB	4	1.21
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	10	1.21
(1,1071)	1:105:A:LEU:HD12	1:88:A:TYR:HE1	14	1.21
(1,831)	1:28:A:PHE:HB2	1:106:A:GLU:HB2	2	1.21
(1,827)	1:91:A:LEU:HD22	1:30:A:PRO:HG3	15	1.21
(1,827)	1:91:A:LEU:HD21	1:30:A:PRO:HG3	19	1.21
(1,799)	1:48:A:LEU:HD11	1:48:A:LEU:HB2	9	1.21
(1,797)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	19	1.21
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG22	6	1.21
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG22	10	1.21
(1,757)	1:79:A:ALA:HB3	1:53:A:SER:HB2	3	1.21
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD11	14	1.21
(1,602)	1:144:A:GLN:HG2	1:141:A:PRO:HD2	1	1.21
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG22	12	1.21
(1,441)	1:173:A:ILE:HG23	1:118:A:ARG:HB2	13	1.21
(1,441)	1:173:A:ILE:HG21	1:118:A:ARG:HB2	18	1.21
(1,440)	1:120:A:ILE:HD12	1:120:A:ILE:HG21	16	1.21
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD11	18	1.21
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG21	20	1.21
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	7	1.21
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	8	1.21
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	17	1.21
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	14	1.21
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG21	14	1.2
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	17	1.2
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	12	1.2
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	10	1.2
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG21	2	1.2
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	20	1.2
(1,1755)	1:21:A:GLU:H	1:21:A:GLU:HG2	19	1.2
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	9	1.2
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD11	15	1.2
(1,1359)	1:27:A:VAL:H	1:27:A:VAL:HG12	5	1.2
(1,1359)	1:27:A:VAL:H	1:27:A:VAL:HG12	12	1.2
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD13	1	1.2
(1,1250)	1:58:A:ILE:HD11	1:58:A:ILE:HB	1	1.2
(1,1250)	1:58:A:ILE:HD13	1:58:A:ILE:HB	9	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	6	1.2
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	14	1.2
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	9	1.2
(1,1063)	1:103:A:VAL:HG21	1:97:A:PHE:HE1	17	1.2
(1,982)	1:48:A:LEU:HD23	1:48:A:LEU:HB3	11	1.2
(1,966)	1:91:A:LEU:HG	1:97:A:PHE:HE1	5	1.2
(1,966)	1:91:A:LEU:HG	1:97:A:PHE:HE1	8	1.2
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG22	14	1.2
(1,757)	1:79:A:ALA:HB1	1:53:A:SER:HB2	11	1.2
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	1	1.2
(1,525)	1:105:A:LEU:HD11	1:97:A:PHE:HD1	3	1.2
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	11	1.2
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	19	1.2
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD12	13	1.2
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	2	1.2
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG22	13	1.2
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG21	13	1.2
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	6	1.2
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	10	1.2
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	12	1.2
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	15	1.2
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	20	1.2
(1,221)	1:104:A:LYS:HE2	1:104:A:LYS:HG3	17	1.2
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	16	1.2
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	19	1.19
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG22	9	1.19
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB1	4	1.19
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	2	1.19
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	19	1.19
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD13	11	1.19
(1,1594)	1:27:A:VAL:H	1:71:A:VAL:HB	17	1.19
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	14	1.19
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG23	1	1.19
(1,1583)	1:59:A:ALA:HB1	1:70:A:MET:HB2	17	1.19
(1,1436)	1:130:A:LEU:H	1:130:A:LEU:HD23	16	1.19
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD12	19	1.19
(1,1359)	1:27:A:VAL:H	1:27:A:VAL:HG11	7	1.19
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD13	9	1.19
(1,1250)	1:58:A:ILE:HD12	1:58:A:ILE:HB	3	1.19
(1,1250)	1:58:A:ILE:HD13	1:58:A:ILE:HB	12	1.19
(1,1250)	1:58:A:ILE:HD13	1:58:A:ILE:HB	14	1.19
(1,1063)	1:103:A:VAL:HG21	1:97:A:PHE:HE1	14	1.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD2	17	1.19
(1,954)	1:119:A:VAL:HB	1:120:A:ILE:HD13	16	1.19
(1,757)	1:79:A:ALA:HB2	1:53:A:SER:HB2	1	1.19
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	15	1.19
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	18	1.19
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	18	1.19
(1,641)	1:38:A:ILE:HB	1:38:A:ILE:HD11	18	1.19
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	2	1.19
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	7	1.19
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	8	1.19
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	9	1.19
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	17	1.19
(1,441)	1:173:A:ILE:HG23	1:118:A:ARG:HB2	8	1.19
(1,441)	1:173:A:ILE:HG21	1:118:A:ARG:HB2	12	1.19
(1,440)	1:120:A:ILE:HD13	1:120:A:ILE:HG23	11	1.19
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD13	14	1.19
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG23	12	1.19
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG23	16	1.19
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB2	3	1.19
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	5	1.19
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	16	1.19
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	20	1.19
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	4	1.19
(1,2172)	1:100:A:LYS:H	1:100:A:LYS:HD2	15	1.18
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	10	1.18
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD11	13	1.18
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	11	1.18
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	17	1.18
(1,1522)	1:33:A:ALA:HB3	1:30:A:PRO:HG3	7	1.18
(1,1305)	1:63:A:THR:HG21	1:64:A:PRO:HD2	5	1.18
(1,1300)	1:105:A:LEU:HD13	1:29:A:ILE:HG21	10	1.18
(1,1300)	1:105:A:LEU:HD11	1:29:A:ILE:HG23	19	1.18
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	15	1.18
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD11	14	1.18
(1,893)	1:48:A:LEU:HD12	1:86:A:ARG:HG2	2	1.18
(1,834)	1:45:A:ILE:HD12	1:57:A:LYS:HA	11	1.18
(1,831)	1:28:A:PHE:HB2	1:106:A:GLU:HB2	5	1.18
(1,797)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	13	1.18
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG22	17	1.18
(1,757)	1:79:A:ALA:HB2	1:53:A:SER:HB2	6	1.18
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	1	1.18
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	3	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	4	1.18
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	9	1.18
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	10	1.18
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	13	1.18
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	14	1.18
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	16	1.18
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	17	1.18
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	19	1.18
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	20	1.18
(1,441)	1:173:A:ILE:HG21	1:118:A:ARG:HB2	17	1.18
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	13	1.18
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	19	1.18
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG21	10	1.18
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB1	1	1.18
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB1	20	1.18
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	2	1.18
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	13	1.18
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	14	1.18
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	14	1.18
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG21	13	1.17
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG21	16	1.17
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	17	1.17
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB1	16	1.17
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	13	1.17
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	16	1.17
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB3	20	1.17
(1,1841)	1:47:A:GLN:H	1:45:A:ILE:HG22	6	1.17
(1,1816)	1:68:A:VAL:H	1:66:A:SER:HB3	16	1.17
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD13	5	1.17
(1,1755)	1:21:A:GLU:H	1:21:A:GLU:HG2	4	1.17
(1,1742)	1:98:A:GLY:H	1:99:A:PRO:HD2	13	1.17
(1,1664)	1:101:A:GLU:H	1:100:A:LYS:HG2	12	1.17
(1,1554)	1:113:A:ALA:HB1	1:152:A:VAL:HG23	20	1.17
(1,1522)	1:33:A:ALA:HB3	1:30:A:PRO:HG3	1	1.17
(1,1370)	1:68:A:VAL:HG23	1:28:A:PHE:HB3	13	1.17
(1,1359)	1:27:A:VAL:H	1:27:A:VAL:HG11	8	1.17
(1,1359)	1:27:A:VAL:H	1:27:A:VAL:HG13	20	1.17
(1,1300)	1:105:A:LEU:HD13	1:29:A:ILE:HG21	18	1.17
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	3	1.17
(1,1250)	1:58:A:ILE:HD12	1:58:A:ILE:HB	5	1.17
(1,1250)	1:58:A:ILE:HD13	1:58:A:ILE:HB	6	1.17
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD13	12	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD13	14	1.17
(1,1063)	1:103:A:VAL:HG22	1:97:A:PHE:HE1	19	1.17
(1,1059)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	16	1.17
(1,1031)	1:68:A:VAL:HG12	1:28:A:PHE:HD1	8	1.17
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG22	11	1.17
(1,757)	1:79:A:ALA:HB1	1:53:A:SER:HB2	2	1.17
(1,757)	1:79:A:ALA:HB2	1:53:A:SER:HB2	5	1.17
(1,757)	1:79:A:ALA:HB3	1:53:A:SER:HB2	9	1.17
(1,728)	1:88:A:TYR:HA	1:103:A:VAL:HG13	15	1.17
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	11	1.17
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	12	1.17
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	15	1.17
(1,621)	1:148:A:GLU:HG3	1:148:A:GLU:HA	18	1.17
(1,617)	1:98:A:GLY:HA3	1:99:A:PRO:HB2	10	1.17
(1,441)	1:173:A:ILE:HG21	1:118:A:ARG:HB2	2	1.17
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD11	2	1.17
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD12	5	1.17
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD12	17	1.17
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD13	19	1.17
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	3	1.17
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	7	1.17
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD11	20	1.17
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG22	7	1.17
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB2	13	1.17
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	1	1.17
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	9	1.17
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	11	1.17
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	2	1.17
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	9	1.17
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	13	1.17
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	19	1.17
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	3	1.17
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG22	11	1.16
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	10	1.16
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	20	1.16
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	8	1.16
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	12	1.16
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	17	1.16
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	18	1.16
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	18	1.16
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG23	9	1.16
(1,1664)	1:101:A:GLU:H	1:100:A:LYS:HG2	15	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1619)	1:157:A:ILE:HG22	1:104:A:LYS:HD2	14	1.16
(1,1554)	1:113:A:ALA:HB3	1:152:A:VAL:HG23	13	1.16
(1,1370)	1:68:A:VAL:HG21	1:28:A:PHE:HB3	11	1.16
(1,1250)	1:58:A:ILE:HD12	1:58:A:ILE:HB	2	1.16
(1,1250)	1:58:A:ILE:HD11	1:58:A:ILE:HB	11	1.16
(1,1250)	1:58:A:ILE:HD13	1:58:A:ILE:HB	15	1.16
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	19	1.16
(1,1063)	1:103:A:VAL:HG21	1:97:A:PHE:HE1	13	1.16
(1,966)	1:91:A:LEU:HG	1:97:A:PHE:HE1	1	1.16
(1,893)	1:48:A:LEU:HD12	1:86:A:ARG:HG2	8	1.16
(1,813)	1:58:A:ILE:HG21	1:69:A:ARG:HB2	16	1.16
(1,797)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	20	1.16
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG22	2	1.16
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG22	5	1.16
(1,757)	1:79:A:ALA:HB1	1:53:A:SER:HB2	10	1.16
(1,757)	1:79:A:ALA:HB1	1:53:A:SER:HB2	18	1.16
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	12	1.16
(1,441)	1:173:A:ILE:HG23	1:118:A:ARG:HB2	11	1.16
(1,441)	1:173:A:ILE:HG21	1:118:A:ARG:HB2	15	1.16
(1,441)	1:173:A:ILE:HG23	1:118:A:ARG:HB2	20	1.16
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG21	5	1.16
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG23	7	1.16
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG21	11	1.16
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG21	1	1.16
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB3	16	1.16
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	1	1.16
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	5	1.16
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	6	1.16
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	8	1.16
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	11	1.16
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	17	1.16
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	20	1.16
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	14	1.16
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	16	1.16
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG21	15	1.15
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	7	1.15
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	20	1.15
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	20	1.15
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD11	12	1.15
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD13	15	1.15
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD13	17	1.15
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD13	20	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	10	1.15
(1,1619)	1:157:A:ILE:HG23	1:104:A:LYS:HD2	7	1.15
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	17	1.15
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG21	6	1.15
(1,1583)	1:59:A:ALA:HB1	1:70:A:MET:HB2	13	1.15
(1,1554)	1:113:A:ALA:HB1	1:152:A:VAL:HG22	14	1.15
(1,1488)	1:45:A:ILE:HD13	1:45:A:ILE:HG21	14	1.15
(1,1488)	1:45:A:ILE:HD11	1:45:A:ILE:HG21	18	1.15
(1,1441)	1:154:A:VAL:HG22	1:140:A:VAL:HA	8	1.15
(1,1370)	1:68:A:VAL:HG22	1:28:A:PHE:HB3	19	1.15
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	5	1.15
(1,1250)	1:58:A:ILE:HD13	1:58:A:ILE:HB	20	1.15
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD12	16	1.15
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD12	17	1.15
(1,1063)	1:103:A:VAL:HG22	1:97:A:PHE:HE1	12	1.15
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	15	1.15
(1,1031)	1:68:A:VAL:HG13	1:28:A:PHE:HD1	6	1.15
(1,966)	1:91:A:LEU:HG	1:97:A:PHE:HE1	7	1.15
(1,831)	1:28:A:PHE:HB2	1:106:A:GLU:HB2	10	1.15
(1,797)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	12	1.15
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG21	1	1.15
(1,757)	1:79:A:ALA:HB1	1:53:A:SER:HB2	8	1.15
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	3	1.15
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	13	1.15
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	12	1.15
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	11	1.15
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	4	1.15
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB3	14	1.15
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB2	19	1.15
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	13	1.15
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG21	20	1.14
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	18	1.14
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	5	1.14
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	9	1.14
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB1	19	1.14
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD13	4	1.14
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD11	8	1.14
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD12	14	1.14
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	5	1.14
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG21	16	1.14
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	15	1.14
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	17	1.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1619)	1:157:A:ILE:HG23	1:104:A:LYS:HD2	1	1.14
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	10	1.14
(1,1583)	1:59:A:ALA:HB1	1:70:A:MET:HB2	3	1.14
(1,1554)	1:113:A:ALA:HB1	1:152:A:VAL:HG23	16	1.14
(1,1554)	1:113:A:ALA:HB3	1:152:A:VAL:HG23	17	1.14
(1,1522)	1:33:A:ALA:HB2	1:30:A:PRO:HG3	10	1.14
(1,1370)	1:68:A:VAL:HG22	1:28:A:PHE:HB3	12	1.14
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	15	1.14
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD12	2	1.14
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	18	1.14
(1,1127)	1:94:A:GLU:H	1:93:A:GLU:HG3	2	1.14
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	5	1.14
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	18	1.14
(1,874)	1:104:A:LYS:HE2	1:104:A:LYS:HB3	6	1.14
(1,836)	1:45:A:ILE:HG23	1:46:A:LYS:HG2	1	1.14
(1,813)	1:58:A:ILE:HG21	1:69:A:ARG:HB2	9	1.14
(1,757)	1:79:A:ALA:HB1	1:53:A:SER:HB2	14	1.14
(1,757)	1:79:A:ALA:HB1	1:53:A:SER:HB2	20	1.14
(1,715)	1:25:A:VAL:HG23	1:25:A:VAL:HA	16	1.14
(1,712)	1:88:A:TYR:HD1	1:103:A:VAL:HG22	18	1.14
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	8	1.14
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	9	1.14
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	10	1.14
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	11	1.14
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	14	1.14
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	17	1.14
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	19	1.14
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG13	10	1.14
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG22	12	1.14
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	4	1.14
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	11	1.14
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	15	1.14
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	16	1.14
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	1	1.14
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	19	1.14
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	3	1.13
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	5	1.13
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD12	19	1.13
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	1	1.13
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	1	1.13
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	4	1.13
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	12	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	12	1.13
(1,1522)	1:33:A:ALA:HB3	1:30:A:PRO:HG3	5	1.13
(1,1441)	1:154:A:VAL:HG23	1:140:A:VAL:HA	6	1.13
(1,1403)	1:37:A:ILE:HG22	1:29:A:ILE:HD13	16	1.13
(1,1370)	1:68:A:VAL:HG23	1:28:A:PHE:HB3	17	1.13
(1,1359)	1:27:A:VAL:H	1:27:A:VAL:HG11	15	1.13
(1,1298)	1:105:A:LEU:HG	1:30:A:PRO:HD3	20	1.13
(1,1250)	1:58:A:ILE:HD13	1:58:A:ILE:HB	8	1.13
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	5	1.13
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	9	1.13
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD12	19	1.13
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	11	1.13
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	16	1.13
(1,1031)	1:68:A:VAL:HG13	1:28:A:PHE:HD1	1	1.13
(1,1031)	1:68:A:VAL:HG11	1:28:A:PHE:HD1	7	1.13
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	5	1.13
(1,831)	1:28:A:PHE:HB2	1:106:A:GLU:HB2	9	1.13
(1,813)	1:58:A:ILE:HG21	1:69:A:ARG:HB2	14	1.13
(1,797)	1:48:A:LEU:HD11	1:51:A:PHE:HD1	17	1.13
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG23	15	1.13
(1,715)	1:25:A:VAL:HG21	1:25:A:VAL:HA	10	1.13
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	19	1.13
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	16	1.13
(1,441)	1:173:A:ILE:HG21	1:118:A:ARG:HB2	4	1.13
(1,441)	1:173:A:ILE:HG22	1:118:A:ARG:HB2	6	1.13
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG21	2	1.13
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG23	6	1.13
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG21	9	1.13
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD11	16	1.13
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD11	12	1.13
(1,295)	1:20:A:PRO:HG2	1:20:A:PRO:HA	4	1.13
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	1	1.13
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	2	1.13
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	3	1.13
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	7	1.13
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	8	1.13
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	9	1.13
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	10	1.13
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	12	1.13
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	13	1.13
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	14	1.13
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	17	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	18	1.13
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	19	1.13
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	20	1.13
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	10	1.13
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	3	1.13
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	7	1.13
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	13	1.12
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	7	1.12
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG22	9	1.12
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD12	16	1.12
(1,1742)	1:98:A:GLY:H	1:99:A:PRO:HD2	19	1.12
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG21	18	1.12
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	7	1.12
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	12	1.12
(1,1664)	1:101:A:GLU:H	1:100:A:LYS:HG2	1	1.12
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG22	18	1.12
(1,1599)	1:127:A:VAL:HA	1:138:A:VAL:HB	12	1.12
(1,1554)	1:113:A:ALA:HB2	1:152:A:VAL:HG23	11	1.12
(1,1522)	1:33:A:ALA:HB2	1:30:A:PRO:HG3	2	1.12
(1,1522)	1:33:A:ALA:HB2	1:30:A:PRO:HG3	8	1.12
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD12	1	1.12
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	8	1.12
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	13	1.12
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD12	2	1.12
(1,1250)	1:58:A:ILE:HD12	1:58:A:ILE:HB	7	1.12
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	14	1.12
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	16	1.12
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	19	1.12
(1,1105)	1:56:A:ILE:H	1:56:A:ILE:HG12	11	1.12
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	7	1.12
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	9	1.12
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	3	1.12
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	6	1.12
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	7	1.12
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	8	1.12
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	12	1.12
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	13	1.12
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	15	1.12
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	17	1.12
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	19	1.12
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	19	1.12
(1,836)	1:45:A:ILE:HG22	1:46:A:LYS:HG2	6	1.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,834)	1:45:A:ILE:HD13	1:57:A:LYS:HA	18	1.12
(1,797)	1:48:A:LEU:HD13	1:51:A:PHE:HD1	15	1.12
(1,757)	1:79:A:ALA:HB3	1:53:A:SER:HB2	7	1.12
(1,757)	1:79:A:ALA:HB2	1:53:A:SER:HB2	19	1.12
(1,619)	1:78:A:GLU:HG2	1:79:A:ALA:HB3	9	1.12
(1,619)	1:78:A:GLU:HG2	1:79:A:ALA:HB3	16	1.12
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	14	1.12
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	20	1.12
(1,441)	1:173:A:ILE:HG23	1:118:A:ARG:HB2	1	1.12
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD11	20	1.12
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG22	8	1.12
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG22	11	1.12
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD13	15	1.12
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD12	17	1.12
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD12	19	1.12
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG21	3	1.12
(1,280)	1:168:A:ARG:HD2	1:168:A:ARG:HB2	1	1.12
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	5	1.12
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	18	1.12
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	2	1.12
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	5	1.12
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	6	1.12
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	20	1.12
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	16	1.11
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	11	1.11
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB1	13	1.11
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	1	1.11
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD12	3	1.11
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG21	13	1.11
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	13	1.11
(1,1618)	1:146:A:PRO:HG2	1:113:A:ALA:HA	4	1.11
(1,1554)	1:113:A:ALA:HB3	1:152:A:VAL:HG23	4	1.11
(1,1403)	1:37:A:ILE:HG21	1:29:A:ILE:HD13	19	1.11
(1,1390)	1:105:A:LEU:HD22	1:29:A:ILE:HG22	17	1.11
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	12	1.11
(1,1250)	1:58:A:ILE:HD12	1:58:A:ILE:HB	16	1.11
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	4	1.11
(1,1127)	1:94:A:GLU:H	1:93:A:GLU:HG3	6	1.11
(1,1127)	1:94:A:GLU:H	1:93:A:GLU:HG3	9	1.11
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	4	1.11
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	1	1.11
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	2	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	4	1.11
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	9	1.11
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	10	1.11
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	11	1.11
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	20	1.11
(1,901)	1:90:A:LYS:HE2	1:94:A:GLU:HG3	7	1.11
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG21	13	1.11
(1,831)	1:28:A:PHE:HB2	1:106:A:GLU:HB2	4	1.11
(1,818)	1:130:A:LEU:HD13	1:130:A:LEU:HB2	3	1.11
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	15	1.11
(1,441)	1:173:A:ILE:HG22	1:118:A:ARG:HB2	5	1.11
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	17	1.11
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD12	14	1.11
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG21	6	1.11
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG22	9	1.11
(1,278)	1:100:A:LYS:HE2	1:100:A:LYS:HG2	14	1.11
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	3	1.11
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	6	1.11
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	9	1.11
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	13	1.11
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	11	1.11
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	15	1.11
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	18	1.11
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	9	1.11
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	4	1.1
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	14	1.1
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB2	11	1.1
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD12	18	1.1
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG23	12	1.1
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG22	14	1.1
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG22	20	1.1
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	7	1.1
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG23	3	1.1
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG21	8	1.1
(1,1619)	1:157:A:ILE:HG23	1:104:A:LYS:HD2	11	1.1
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG23	9	1.1
(1,1554)	1:113:A:ALA:HB3	1:152:A:VAL:HG22	19	1.1
(1,1403)	1:37:A:ILE:HG21	1:29:A:ILE:HD11	14	1.1
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD13	18	1.1
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD13	16	1.1
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD12	13	1.1
(1,1127)	1:94:A:GLU:H	1:93:A:GLU:HG3	3	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	3	1.1
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	13	1.1
(1,1063)	1:103:A:VAL:HG21	1:97:A:PHE:HE1	11	1.1
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	14	1.1
(1,987)	1:59:A:ALA:HA	1:60:A:PRO:HG2	16	1.1
(1,901)	1:90:A:LYS:HE2	1:94:A:GLU:HG3	14	1.1
(1,874)	1:104:A:LYS:HE2	1:104:A:LYS:HB3	2	1.1
(1,836)	1:45:A:ILE:HG22	1:46:A:LYS:HG2	4	1.1
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG22	11	1.1
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG23	12	1.1
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG22	16	1.1
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG23	17	1.1
(1,757)	1:79:A:ALA:HB2	1:53:A:SER:HB2	4	1.1
(1,757)	1:79:A:ALA:HB3	1:53:A:SER:HB2	13	1.1
(1,757)	1:79:A:ALA:HB1	1:53:A:SER:HB2	17	1.1
(1,441)	1:173:A:ILE:HG22	1:118:A:ARG:HB2	3	1.1
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD12	1	1.1
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD12	4	1.1
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD12	8	1.1
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD11	9	1.1
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	12	1.1
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	15	1.1
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD11	18	1.1
(1,278)	1:100:A:LYS:HE2	1:100:A:LYS:HG2	2	1.1
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	2	1.1
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	8	1.1
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	19	1.1
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	20	1.09
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB1	11	1.09
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	3	1.09
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	4	1.09
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB1	15	1.09
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD12	2	1.09
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	15	1.09
(1,1742)	1:98:A:GLY:H	1:99:A:PRO:HD2	7	1.09
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG23	17	1.09
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG23	19	1.09
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	1	1.09
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	20	1.09
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	20	1.09
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG21	9	1.09
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG12	5	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1611)	1:61:A:PRO:HD2	1:61:A:PRO:HB2	3	1.09
(1,1611)	1:61:A:PRO:HD2	1:61:A:PRO:HB2	8	1.09
(1,1608)	1:103:A:VAL:H	1:102:A:GLU:HG2	12	1.09
(1,1584)	1:178:A:LYS:HA	1:177:A:VAL:HG23	16	1.09
(1,1583)	1:59:A:ALA:HB3	1:70:A:MET:HB2	7	1.09
(1,1583)	1:59:A:ALA:HB3	1:70:A:MET:HB2	8	1.09
(1,1545)	1:166:A:ALA:HB2	1:130:A:LEU:HD21	9	1.09
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	5	1.09
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	17	1.09
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD12	6	1.09
(1,818)	1:130:A:LEU:HD13	1:130:A:LEU:HB2	7	1.09
(1,818)	1:130:A:LEU:HD12	1:130:A:LEU:HB2	19	1.09
(1,813)	1:58:A:ILE:HG23	1:69:A:ARG:HB2	2	1.09
(1,813)	1:58:A:ILE:HG22	1:69:A:ARG:HB2	17	1.09
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG22	4	1.09
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG22	6	1.09
(1,757)	1:79:A:ALA:HB3	1:53:A:SER:HB2	16	1.09
(1,619)	1:78:A:GLU:HG2	1:79:A:ALA:HB2	15	1.09
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG23	11	1.09
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	13	1.09
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	4	1.09
(1,441)	1:173:A:ILE:HG23	1:118:A:ARG:HB2	10	1.09
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	9	1.09
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG21	20	1.09
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD12	13	1.09
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD13	20	1.09
(1,310)	1:145:A:THR:H	1:145:A:THR:HG21	12	1.09
(1,294)	1:130:A:LEU:HD21	1:169:A:LYS:HB2	18	1.09
(1,211)	1:45:A:ILE:HG12	1:45:A:ILE:HG21	4	1.09
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	2	1.09
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	7	1.09
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	9	1.09
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	19	1.09
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	1	1.09
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	4	1.09
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	14	1.09
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	17	1.09
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	7	1.09
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	1	1.08
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD12	10	1.08
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	1	1.08
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	9	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1742)	1:98:A:GLY:H	1:99:A:PRO:HD2	3	1.08
(1,1742)	1:98:A:GLY:H	1:99:A:PRO:HD2	4	1.08
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG21	1	1.08
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG21	2	1.08
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG21	15	1.08
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG23	17	1.08
(1,1554)	1:113:A:ALA:HB1	1:152:A:VAL:HG23	12	1.08
(1,1554)	1:113:A:ALA:HB1	1:152:A:VAL:HG23	15	1.08
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	5	1.08
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	1	1.08
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	7	1.08
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	8	1.08
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	9	1.08
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD13	10	1.08
(1,891)	1:45:A:ILE:HG21	1:45:A:ILE:HG13	17	1.08
(1,813)	1:58:A:ILE:HG21	1:69:A:ARG:HB2	6	1.08
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	17	1.08
(1,797)	1:48:A:LEU:HD11	1:51:A:PHE:HD1	18	1.08
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG23	3	1.08
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG21	9	1.08
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG23	19	1.08
(1,757)	1:79:A:ALA:HB3	1:53:A:SER:HB2	15	1.08
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG22	17	1.08
(1,400)	1:138:A:VAL:HG23	1:154:A:VAL:HG23	4	1.08
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	15	1.08
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD11	12	1.08
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB3	6	1.08
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB2	17	1.08
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	12	1.08
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	6	1.08
(1,72)	1:99:A:PRO:HA	1:99:A:PRO:HG2	9	1.08
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	13	1.08
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	2	1.08
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	9	1.07
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	11	1.07
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	20	1.07
(1,1935)	1:66:A:SER:H	1:63:A:THR:HG21	20	1.07
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	14	1.07
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB2	16	1.07
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	11	1.07
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	6	1.07
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	8	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG21	11	1.07
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG22	6	1.07
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG21	10	1.07
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG21	14	1.07
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG21	19	1.07
(1,1585)	1:177:A:VAL:HG22	1:118:A:ARG:HD3	16	1.07
(1,1554)	1:113:A:ALA:HB2	1:152:A:VAL:HG22	10	1.07
(1,1554)	1:113:A:ALA:HB1	1:152:A:VAL:HG22	18	1.07
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	2	1.07
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	4	1.07
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	9	1.07
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	10	1.07
(1,1390)	1:105:A:LEU:HD21	1:29:A:ILE:HG23	9	1.07
(1,1359)	1:27:A:VAL:H	1:27:A:VAL:HG11	11	1.07
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	12	1.07
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	2	1.07
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	3	1.07
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	6	1.07
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	16	1.07
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	18	1.07
(1,1192)	1:181:A:HIS:HB3	1:178:A:LYS:HA	17	1.07
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD11	18	1.07
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	1	1.07
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	4	1.07
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	17	1.07
(1,891)	1:45:A:ILE:HG22	1:45:A:ILE:HG13	13	1.07
(1,836)	1:45:A:ILE:HG21	1:46:A:LYS:HG2	2	1.07
(1,836)	1:45:A:ILE:HG21	1:46:A:LYS:HG2	9	1.07
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	13	1.07
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG22	14	1.07
(1,757)	1:79:A:ALA:HB3	1:53:A:SER:HB2	12	1.07
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG23	12	1.07
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG21	13	1.07
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	17	1.07
(1,441)	1:173:A:ILE:HG21	1:118:A:ARG:HB2	7	1.07
(1,441)	1:173:A:ILE:HG23	1:118:A:ARG:HB2	19	1.07
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD12	11	1.07
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	11	1.07
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	14	1.07
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD13	13	1.07
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG21	15	1.07
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG23	4	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB1	5	1.07
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB3	7	1.07
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	13	1.07
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	4	1.07
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	9	1.07
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	12	1.07
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	16	1.07
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	5	1.07
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG23	19	1.06
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	17	1.06
(1,1935)	1:66:A:SER:H	1:63:A:THR:HG23	12	1.06
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	11	1.06
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	1	1.06
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	2	1.06
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	6	1.06
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB2	17	1.06
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB2	18	1.06
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	15	1.06
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD11	1	1.06
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG22	1	1.06
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG23	4	1.06
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	8	1.06
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG23	4	1.06
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG22	12	1.06
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG23	20	1.06
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG12	2	1.06
(1,1569)	1:37:A:ILE:HG22	1:58:A:ILE:HG12	1	1.06
(1,1554)	1:113:A:ALA:HB1	1:152:A:VAL:HG22	1	1.06
(1,1554)	1:113:A:ALA:HB3	1:152:A:VAL:HG22	3	1.06
(1,1554)	1:113:A:ALA:HB3	1:152:A:VAL:HG23	6	1.06
(1,1554)	1:113:A:ALA:HB1	1:152:A:VAL:HG23	8	1.06
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	20	1.06
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	1	1.06
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	3	1.06
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	6	1.06
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	7	1.06
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	8	1.06
(1,1390)	1:105:A:LEU:HD23	1:29:A:ILE:HG23	2	1.06
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD13	16	1.06
(1,1359)	1:27:A:VAL:H	1:27:A:VAL:HG13	19	1.06
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	4	1.06
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	10	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD12	12	1.06
(1,1241)	1:34:A:VAL:HG12	1:37:A:ILE:HB	10	1.06
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD11	5	1.06
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	20	1.06
(1,961)	1:178:A:LYS:HE2	1:178:A:LYS:HB2	20	1.06
(1,891)	1:45:A:ILE:HG23	1:45:A:ILE:HG13	12	1.06
(1,891)	1:45:A:ILE:HG22	1:45:A:ILE:HG13	16	1.06
(1,817)	1:130:A:LEU:HD22	1:130:A:LEU:HB3	14	1.06
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG23	7	1.06
(1,728)	1:88:A:TYR:HA	1:103:A:VAL:HG12	19	1.06
(1,677)	1:94:A:GLU:HG2	1:90:A:LYS:HG2	16	1.06
(1,619)	1:78:A:GLU:HG2	1:79:A:ALA:HB1	18	1.06
(1,602)	1:144:A:GLN:HG2	1:141:A:PRO:HD2	19	1.06
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG21	14	1.06
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG23	15	1.06
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG23	19	1.06
(1,528)	1:103:A:VAL:HG21	1:159:A:HIS:HD2	12	1.06
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	12	1.06
(1,440)	1:120:A:ILE:HD12	1:120:A:ILE:HG23	1	1.06
(1,440)	1:120:A:ILE:HD12	1:120:A:ILE:HG23	2	1.06
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	8	1.06
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	9	1.06
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	4	1.06
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD13	12	1.06
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD13	13	1.06
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG22	1	1.06
(1,310)	1:145:A:THR:H	1:145:A:THR:HG23	11	1.06
(1,310)	1:145:A:THR:H	1:145:A:THR:HG22	19	1.06
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	2	1.06
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	3	1.06
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	4	1.06
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	5	1.06
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	6	1.06
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	7	1.06
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	8	1.06
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	14	1.06
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	16	1.06
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	19	1.06
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	20	1.06
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	1	1.06
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	15	1.06
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	16	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	10	1.06
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	2	1.06
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	2	1.06
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	5	1.06
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	10	1.06
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	1	1.05
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	8	1.05
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB2	12	1.05
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	2	1.05
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	9	1.05
(1,1742)	1:98:A:GLY:H	1:99:A:PRO:HD2	9	1.05
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG23	7	1.05
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	14	1.05
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	15	1.05
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	20	1.05
(1,1608)	1:103:A:VAL:H	1:102:A:GLU:HG2	17	1.05
(1,1564)	1:92:A:LYS:HD3	1:103:A:VAL:HG11	18	1.05
(1,1554)	1:113:A:ALA:HB1	1:152:A:VAL:HG22	2	1.05
(1,1554)	1:113:A:ALA:HB1	1:152:A:VAL:HG21	5	1.05
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	11	1.05
(1,1308)	1:154:A:VAL:HG11	1:153:A:ILE:HA	12	1.05
(1,1299)	1:88:A:TYR:HE1	1:105:A:LEU:HG	3	1.05
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD13	20	1.05
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD12	16	1.05
(1,1192)	1:181:A:HIS:HB3	1:178:A:LYS:HA	13	1.05
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD11	5	1.05
(1,1041)	1:91:A:LEU:HD22	1:96:A:PHE:HD1	17	1.05
(1,883)	1:133:A:LEU:HD12	1:133:A:LEU:HB2	9	1.05
(1,836)	1:45:A:ILE:HG21	1:46:A:LYS:HG2	10	1.05
(1,813)	1:58:A:ILE:HG23	1:69:A:ARG:HB2	3	1.05
(1,691)	1:103:A:VAL:HG22	1:105:A:LEU:HD23	14	1.05
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD11	16	1.05
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG23	18	1.05
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG21	20	1.05
(1,449)	1:71:A:VAL:H	1:71:A:VAL:HG22	20	1.05
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG13	1	1.05
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD12	7	1.05
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	17	1.05
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG23	15	1.05
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD12	14	1.05
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD12	15	1.05
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG21	14	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG22	18	1.05
(1,310)	1:145:A:THR:H	1:145:A:THR:HG22	17	1.05
(1,211)	1:45:A:ILE:HG12	1:45:A:ILE:HG21	6	1.05
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	1	1.05
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	10	1.05
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	13	1.05
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	17	1.05
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	5	1.05
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	6	1.05
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	18	1.05
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	20	1.05
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	6	1.05
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	7	1.05
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	1	1.05
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	3	1.05
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	6	1.05
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	10	1.04
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	16	1.04
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	3	1.04
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	15	1.04
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD12	7	1.04
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG23	2	1.04
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	2	1.04
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	2	1.04
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG22	16	1.04
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG12	10	1.04
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	5	1.04
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	17	1.04
(1,1583)	1:59:A:ALA:HB3	1:70:A:MET:HB2	15	1.04
(1,1545)	1:166:A:ALA:HB1	1:130:A:LEU:HD22	7	1.04
(1,1530)	1:174:A:LEU:HD21	1:177:A:VAL:HG11	13	1.04
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	16	1.04
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	7	1.04
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	8	1.04
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	10	1.04
(1,1105)	1:56:A:ILE:H	1:56:A:ILE:HG12	19	1.04
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	12	1.04
(1,1015)	1:170:A:ILE:HD13	1:130:A:LEU:HD13	8	1.04
(1,887)	1:29:A:ILE:HD13	1:37:A:ILE:HG13	15	1.04
(1,836)	1:45:A:ILE:HG23	1:46:A:LYS:HG2	5	1.04
(1,813)	1:58:A:ILE:HG23	1:69:A:ARG:HB2	7	1.04
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG21	8	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG22	20	1.04
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	3	1.04
(1,529)	1:167:A:GLN:HE22	1:25:A:VAL:HG11	10	1.04
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	20	1.04
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD13	10	1.04
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	19	1.04
(1,368)	1:130:A:LEU:HD11	1:130:A:LEU:HB3	1	1.04
(1,368)	1:130:A:LEU:HD13	1:130:A:LEU:HB3	18	1.04
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG23	3	1.04
(1,326)	1:111:A:VAL:HG22	1:116:A:ALA:HB2	12	1.04
(1,310)	1:145:A:THR:H	1:145:A:THR:HG22	13	1.04
(1,211)	1:45:A:ILE:HG12	1:45:A:ILE:HG23	2	1.04
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG22	4	1.04
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	2	1.04
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	5	1.04
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	6	1.04
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	7	1.04
(1,66)	1:30:A:PRO:HA	1:30:A:PRO:HG2	8	1.04
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	10	1.04
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	7	1.03
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	11	1.03
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	12	1.03
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	19	1.03
(1,1935)	1:66:A:SER:H	1:63:A:THR:HG21	13	1.03
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	16	1.03
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	12	1.03
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	12	1.03
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	14	1.03
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	16	1.03
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG13	4	1.03
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG11	8	1.03
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG11	9	1.03
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	11	1.03
(1,1608)	1:103:A:VAL:H	1:102:A:GLU:HG2	18	1.03
(1,1583)	1:59:A:ALA:HB1	1:70:A:MET:HB2	1	1.03
(1,1569)	1:37:A:ILE:HG23	1:58:A:ILE:HG12	4	1.03
(1,1538)	1:91:A:LEU:HD22	1:96:A:PHE:HD1	17	1.03
(1,1522)	1:33:A:ALA:HB1	1:30:A:PRO:HG3	6	1.03
(1,1403)	1:37:A:ILE:HG22	1:29:A:ILE:HD11	12	1.03
(1,1301)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	17	1.03
(1,874)	1:104:A:LYS:HE2	1:104:A:LYS:HB3	8	1.03
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG22	12	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG21	19	1.03
(1,797)	1:48:A:LEU:HD13	1:51:A:PHE:HD1	14	1.03
(1,545)	1:63:A:THR:HA	1:63:A:THR:HG23	16	1.03
(1,440)	1:120:A:ILE:HD11	1:120:A:ILE:HG22	7	1.03
(1,440)	1:120:A:ILE:HD12	1:120:A:ILE:HG22	9	1.03
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	12	1.03
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD12	17	1.03
(1,368)	1:130:A:LEU:HD11	1:130:A:LEU:HB3	12	1.03
(1,368)	1:130:A:LEU:HD12	1:130:A:LEU:HB3	20	1.03
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG21	12	1.03
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD13	17	1.03
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG23	2	1.03
(1,310)	1:145:A:THR:H	1:145:A:THR:HG22	14	1.03
(1,250)	1:56:A:ILE:HD11	1:56:A:ILE:HB	1	1.03
(1,211)	1:45:A:ILE:HG12	1:45:A:ILE:HG23	3	1.03
(1,114)	1:52:A:ALA:HA	1:82:A:LYS:HD2	2	1.03
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	8	1.03
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	9	1.03
(1,85)	1:148:A:GLU:HA	1:148:A:GLU:HG2	5	1.03
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	2	1.02
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	13	1.02
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	16	1.02
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	17	1.02
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB2	10	1.02
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB2	12	1.02
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB1	17	1.02
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB3	19	1.02
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	14	1.02
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB1	14	1.02
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	13	1.02
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	6	1.02
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	19	1.02
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	20	1.02
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG22	3	1.02
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG21	6	1.02
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	17	1.02
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	9	1.02
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	20	1.02
(1,1678)	1:24:A:THR:H	1:23:A:GLU:HB2	2	1.02
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG23	5	1.02
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG23	13	1.02
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	16	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1554)	1:113:A:ALA:HB3	1:152:A:VAL:HG23	7	1.02
(1,1554)	1:113:A:ALA:HB1	1:152:A:VAL:HG21	9	1.02
(1,1536)	1:48:A:LEU:HB2	1:48:A:LEU:HD21	12	1.02
(1,1536)	1:48:A:LEU:HB2	1:48:A:LEU:HD23	15	1.02
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	9	1.02
(1,1347)	1:99:A:PRO:HD2	1:98:A:GLY:HA3	20	1.02
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	13	1.02
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	20	1.02
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD13	11	1.02
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD11	18	1.02
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD12	11	1.02
(1,1127)	1:94:A:GLU:H	1:93:A:GLU:HG3	14	1.02
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	2	1.02
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	3	1.02
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	10	1.02
(1,1015)	1:170:A:ILE:HD11	1:130:A:LEU:HD13	4	1.02
(1,1015)	1:170:A:ILE:HD13	1:130:A:LEU:HD11	19	1.02
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	11	1.02
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG22	20	1.02
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG22	12	1.02
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD11	6	1.02
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	10	1.02
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	11	1.02
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	15	1.02
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	12	1.02
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	6	1.02
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	1	1.02
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	18	1.02
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG23	4	1.02
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG23	10	1.02
(1,211)	1:45:A:ILE:HG12	1:45:A:ILE:HG22	1	1.02
(1,211)	1:45:A:ILE:HG12	1:45:A:ILE:HG21	8	1.02
(1,211)	1:45:A:ILE:HG12	1:45:A:ILE:HG23	9	1.02
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG21	3	1.02
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	13	1.02
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB1	5	1.01
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	1	1.01
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	16	1.01
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD12	6	1.01
(1,1794)	1:109:A:ILE:H	1:109:A:ILE:HD12	9	1.01
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	6	1.01
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	8	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	15	1.01
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	18	1.01
(1,1742)	1:98:A:GLY:H	1:99:A:PRO:HD2	2	1.01
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	12	1.01
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	13	1.01
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	15	1.01
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	18	1.01
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	19	1.01
(1,1648)	1:156:A:ILE:H	1:156:A:ILE:HG23	11	1.01
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG12	1	1.01
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	13	1.01
(1,1583)	1:59:A:ALA:HB1	1:70:A:MET:HB2	19	1.01
(1,1545)	1:166:A:ALA:HB3	1:130:A:LEU:HD22	3	1.01
(1,1536)	1:48:A:LEU:HB2	1:48:A:LEU:HD23	17	1.01
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB1	20	1.01
(1,1370)	1:68:A:VAL:HG22	1:28:A:PHE:HB3	16	1.01
(1,1359)	1:27:A:VAL:H	1:27:A:VAL:HG13	17	1.01
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	14	1.01
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	15	1.01
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	17	1.01
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	18	1.01
(1,1105)	1:56:A:ILE:H	1:56:A:ILE:HG12	18	1.01
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	6	1.01
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	1	1.01
(1,1015)	1:170:A:ILE:HD12	1:130:A:LEU:HD12	7	1.01
(1,949)	1:111:A:VAL:HG21	1:112:A:PRO:HD3	5	1.01
(1,891)	1:45:A:ILE:HG21	1:45:A:ILE:HG13	20	1.01
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG23	16	1.01
(1,818)	1:130:A:LEU:HD11	1:130:A:LEU:HB2	8	1.01
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG22	17	1.01
(1,813)	1:58:A:ILE:HG22	1:69:A:ARG:HB2	12	1.01
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	5	1.01
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	19	1.01
(1,677)	1:94:A:GLU:HG2	1:90:A:LYS:HG2	15	1.01
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	18	1.01
(1,524)	1:105:A:LEU:HD23	1:88:A:TYR:HD1	20	1.01
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG21	2	1.01
(1,427)	1:87:A:ILE:HA	1:87:A:ILE:HD12	3	1.01
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	6	1.01
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	20	1.01
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG21	16	1.01
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG21	5	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,339)	1:56:A:ILE:H	1:56:A:ILE:HG22	9	1.01
(1,326)	1:111:A:VAL:HG22	1:116:A:ALA:HB3	7	1.01
(1,326)	1:111:A:VAL:HG21	1:116:A:ALA:HB3	13	1.01
(1,310)	1:145:A:THR:H	1:145:A:THR:HG22	15	1.01
(1,250)	1:56:A:ILE:HD13	1:56:A:ILE:HB	6	1.01
(1,211)	1:45:A:ILE:HG12	1:45:A:ILE:HG22	5	1.01
(1,211)	1:45:A:ILE:HG12	1:45:A:ILE:HG23	10	1.01
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG21	9	1.01
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	7	1.01
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	8	1.01
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	8	1.01
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	6	1.0
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB1	2	1.0
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	14	1.0
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	8	1.0
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG21	1	1.0
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	17	1.0
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG23	11	1.0
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	3	1.0
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	16	1.0
(1,1678)	1:24:A:THR:H	1:23:A:GLU:HB2	3	1.0
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	13	1.0
(1,1583)	1:59:A:ALA:HB1	1:70:A:MET:HB2	11	1.0
(1,1536)	1:48:A:LEU:HB2	1:48:A:LEU:HD21	19	1.0
(1,1536)	1:48:A:LEU:HB2	1:48:A:LEU:HD23	20	1.0
(1,1530)	1:174:A:LEU:HD23	1:177:A:VAL:HG13	20	1.0
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	12	1.0
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	14	1.0
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	15	1.0
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	18	1.0
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	20	1.0
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB3	13	1.0
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	12	1.0
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	19	1.0
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	12	1.0
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	15	1.0
(1,1246)	1:45:A:ILE:HD12	1:45:A:ILE:HB	1	1.0
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD11	19	1.0
(1,1105)	1:56:A:ILE:H	1:56:A:ILE:HG12	20	1.0
(1,1071)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	17	1.0
(1,1011)	1:127:A:VAL:HG23	1:138:A:VAL:HB	19	1.0
(1,983)	1:48:A:LEU:HD22	1:83:A:ALA:HA	9	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,836)	1:45:A:ILE:HG22	1:46:A:LYS:HG2	8	1.0
(1,818)	1:130:A:LEU:HD12	1:130:A:LEU:HB2	17	1.0
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG22	13	1.0
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG23	15	1.0
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG23	1	1.0
(1,728)	1:88:A:TYR:HA	1:103:A:VAL:HG13	11	1.0
(1,727)	1:178:A:LYS:HG3	1:178:A:LYS:HE2	15	1.0
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD11	1	1.0
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD13	8	1.0
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	1	1.0
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	2	1.0
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	4	1.0
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	12	1.0
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	20	1.0
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG13	19	1.0
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG21	4	1.0
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG21	9	1.0
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG23	16	1.0
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG21	17	1.0
(1,517)	1:142:A:ARG:HD2	1:142:A:ARG:HA	3	1.0
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	13	1.0
(1,433)	1:90:A:LYS:HA	1:90:A:LYS:HD3	18	1.0
(1,433)	1:90:A:LYS:HA	1:90:A:LYS:HD3	20	1.0
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	1	1.0
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG22	13	1.0
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG21	17	1.0
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG21	15	1.0
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	9	1.0
(1,250)	1:56:A:ILE:HD11	1:56:A:ILE:HB	4	1.0
(1,211)	1:45:A:ILE:HG12	1:45:A:ILE:HG21	7	1.0
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG23	11	1.0
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG23	17	1.0
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG23	19	1.0
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG23	20	1.0
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG21	2	1.0
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	17	1.0
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	20	1.0
(1,12)	1:150:A:GLU:H	1:150:A:GLU:HG2	12	1.0
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	2	0.99
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	4	0.99
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	11	0.99
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	20	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	3	0.99
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	18	0.99
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	5	0.99
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	18	0.99
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	10	0.99
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	20	0.99
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	4	0.99
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	5	0.99
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	5	0.99
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	5	0.99
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	9	0.99
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG11	3	0.99
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG11	6	0.99
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	12	0.99
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	13	0.99
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	1	0.99
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	10	0.99
(1,1522)	1:33:A:ALA:HB3	1:30:A:PRO:HG3	9	0.99
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	13	0.99
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	19	0.99
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB1	15	0.99
(1,1390)	1:105:A:LEU:HD23	1:29:A:ILE:HG21	3	0.99
(1,1359)	1:27:A:VAL:H	1:27:A:VAL:HG11	16	0.99
(1,1328)	1:141:A:PRO:HD2	1:141:A:PRO:HB3	11	0.99
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	11	0.99
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	19	0.99
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD13	19	0.99
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	14	0.99
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	7	0.99
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	8	0.99
(1,874)	1:104:A:LYS:HE2	1:104:A:LYS:HB3	9	0.99
(1,836)	1:45:A:ILE:HG21	1:46:A:LYS:HG2	3	0.99
(1,836)	1:45:A:ILE:HG22	1:46:A:LYS:HG2	7	0.99
(1,818)	1:130:A:LEU:HD11	1:130:A:LEU:HB2	4	0.99
(1,813)	1:58:A:ILE:HG23	1:69:A:ARG:HB2	1	0.99
(1,813)	1:58:A:ILE:HG22	1:69:A:ARG:HB2	13	0.99
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG22	5	0.99
(1,721)	1:168:A:ARG:HA	1:168:A:ARG:HD2	4	0.99
(1,721)	1:168:A:ARG:HA	1:168:A:ARG:HD2	17	0.99
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD13	4	0.99
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD12	13	0.99
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD11	18	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	8	0.99
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG23	2	0.99
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG23	12	0.99
(1,496)	1:58:A:ILE:HG12	1:38:A:ILE:HG12	15	0.99
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	16	0.99
(1,449)	1:71:A:VAL:H	1:71:A:VAL:HG23	12	0.99
(1,433)	1:90:A:LYS:HA	1:90:A:LYS:HD3	15	0.99
(1,371)	1:119:A:VAL:HG22	1:119:A:VAL:HA	17	0.99
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG23	14	0.99
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG21	19	0.99
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD11	19	0.99
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB1	8	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	1	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	2	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	3	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	4	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	7	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	8	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	10	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	11	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	12	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	13	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	14	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	15	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	16	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	17	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	18	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	19	0.99
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	20	0.99
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG23	12	0.99
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG21	13	0.99
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG22	6	0.99
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG21	10	0.99
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	7	0.99
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	11	0.99
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	1	0.98
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	7	0.98
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	8	0.98
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	9	0.98
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	12	0.98
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	15	0.98
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	17	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	19	0.98
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	5	0.98
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB3	17	0.98
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	17	0.98
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	8	0.98
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	16	0.98
(1,1583)	1:59:A:ALA:HB1	1:70:A:MET:HB2	12	0.98
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	5	0.98
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	6	0.98
(1,1522)	1:33:A:ALA:HB1	1:30:A:PRO:HG3	3	0.98
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	11	0.98
(1,1502)	1:64:A:PRO:HB3	1:64:A:PRO:HD2	17	0.98
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB2	11	0.98
(1,1403)	1:37:A:ILE:HG23	1:29:A:ILE:HD13	13	0.98
(1,1390)	1:105:A:LEU:HD23	1:29:A:ILE:HG22	4	0.98
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	14	0.98
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	17	0.98
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD13	5	0.98
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD13	15	0.98
(1,1250)	1:58:A:ILE:HD11	1:58:A:ILE:HB	18	0.98
(1,1127)	1:94:A:GLU:H	1:93:A:GLU:HG3	19	0.98
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	11	0.98
(1,962)	1:178:A:LYS:HE2	1:175:A:ALA:HA	15	0.98
(1,874)	1:104:A:LYS:HE2	1:104:A:LYS:HB3	17	0.98
(1,813)	1:58:A:ILE:HG23	1:69:A:ARG:HB2	4	0.98
(1,813)	1:58:A:ILE:HG21	1:69:A:ARG:HB2	19	0.98
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	9	0.98
(1,721)	1:168:A:ARG:HA	1:168:A:ARG:HD2	8	0.98
(1,721)	1:168:A:ARG:HA	1:168:A:ARG:HD2	12	0.98
(1,691)	1:103:A:VAL:HG21	1:105:A:LEU:HD21	3	0.98
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD11	3	0.98
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD11	7	0.98
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG23	19	0.98
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	5	0.98
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	11	0.98
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	18	0.98
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	3	0.98
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD13	15	0.98
(1,366)	1:38:A:ILE:H	1:38:A:ILE:HG21	18	0.98
(1,326)	1:111:A:VAL:HG21	1:116:A:ALA:HB1	15	0.98
(1,326)	1:111:A:VAL:HG23	1:116:A:ALA:HB2	17	0.98
(1,310)	1:145:A:THR:H	1:145:A:THR:HG21	16	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG21	8	0.98
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG21	14	0.98
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG21	15	0.98
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG22	18	0.98
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG23	1	0.98
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG22	15	0.98
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG23	16	0.98
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG22	17	0.98
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG23	19	0.98
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	4	0.98
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	13	0.98
(1,83)	1:90:A:LYS:HA	1:90:A:LYS:HD2	3	0.98
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	6	0.98
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	11	0.98
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	16	0.98
(1,2449)	2:6:B:C:H5	2:6:B:C:H4’	10	0.97
(1,2449)	2:6:B:C:H5	2:6:B:C:H4’	13	0.97
(1,2449)	2:6:B:C:H5	2:6:B:C:H4’	14	0.97
(1,2449)	2:6:B:C:H5	2:6:B:C:H4’	18	0.97
(1,2432)	2:6:B:C:H1’	2:5:B:6MZ:H1’	6	0.97
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	12	0.97
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	19	0.97
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB1	9	0.97
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG12	15	0.97
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB3	16	0.97
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	2	0.97
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	1	0.97
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	5	0.97
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	7	0.97
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	11	0.97
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	17	0.97
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	17	0.97
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	19	0.97
(1,1678)	1:24:A:THR:H	1:23:A:GLU:HB2	9	0.97
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	14	0.97
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG12	7	0.97
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	8	0.97
(1,1545)	1:166:A:ALA:HB2	1:130:A:LEU:HD23	19	0.97
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	13	0.97
(1,1246)	1:45:A:ILE:HD12	1:45:A:ILE:HB	2	0.97
(1,1246)	1:45:A:ILE:HD13	1:45:A:ILE:HB	3	0.97
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	8	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	18	0.97
(1,1031)	1:68:A:VAL:HG12	1:28:A:PHE:HD1	3	0.97
(1,1010)	1:127:A:VAL:HA	1:127:A:VAL:HG22	5	0.97
(1,818)	1:130:A:LEU:HD11	1:130:A:LEU:HB2	15	0.97
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG21	18	0.97
(1,813)	1:58:A:ILE:HG21	1:69:A:ARG:HB2	10	0.97
(1,813)	1:58:A:ILE:HG22	1:69:A:ARG:HB2	20	0.97
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	2	0.97
(1,677)	1:94:A:GLU:HG2	1:90:A:LYS:HG2	11	0.97
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD13	15	0.97
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	5	0.97
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG23	6	0.97
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG23	8	0.97
(1,433)	1:90:A:LYS:HA	1:90:A:LYS:HD3	11	0.97
(1,433)	1:90:A:LYS:HA	1:90:A:LYS:HD3	13	0.97
(1,368)	1:130:A:LEU:HD12	1:130:A:LEU:HB3	5	0.97
(1,310)	1:145:A:THR:H	1:145:A:THR:HG21	20	0.97
(1,250)	1:56:A:ILE:HD11	1:56:A:ILE:HB	2	0.97
(1,215)	1:115:A:ALA:HB2	1:177:A:VAL:HG21	13	0.97
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG23	5	0.97
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG22	7	0.97
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG22	8	0.97
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG21	12	0.97
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG22	14	0.97
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	11	0.97
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	12	0.97
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	14	0.97
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	17	0.97
(1,90)	1:78:A:GLU:HA	1:78:A:GLU:HG2	19	0.97
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	12	0.97
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	1	0.97
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	3	0.97
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	4	0.97
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	12	0.97
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	20	0.97
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	3	0.96
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	5	0.96
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	4	0.96
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	15	0.96
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	19	0.96
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	11	0.96
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	12	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	18	0.96
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB2	18	0.96
(1,1935)	1:66:A:SER:H	1:63:A:THR:HG23	19	0.96
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	20	0.96
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	17	0.96
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	19	0.96
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	4	0.96
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	10	0.96
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG21	3	0.96
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	5	0.96
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	11	0.96
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	13	0.96
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	18	0.96
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	14	0.96
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	7	0.96
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG13	16	0.96
(1,1583)	1:59:A:ALA:HB1	1:70:A:MET:HB2	20	0.96
(1,1581)	1:48:A:LEU:HG	1:56:A:ILE:HD12	11	0.96
(1,1569)	1:37:A:ILE:HG21	1:58:A:ILE:HG12	19	0.96
(1,1552)	1:57:A:LYS:HG3	1:57:A:LYS:HE2	13	0.96
(1,1536)	1:48:A:LEU:HB2	1:48:A:LEU:HD23	14	0.96
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	19	0.96
(1,1390)	1:105:A:LEU:HD22	1:29:A:ILE:HG22	1	0.96
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	16	0.96
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	13	0.96
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	17	0.96
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	2	0.96
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	4	0.96
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	5	0.96
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	11	0.96
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	16	0.96
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	19	0.96
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	20	0.96
(1,904)	1:92:A:LYS:HE2	1:92:A:LYS:HB2	10	0.96
(1,830)	1:72:A:VAL:HG23	1:57:A:LYS:HE3	6	0.96
(1,813)	1:58:A:ILE:HG21	1:69:A:ARG:HB2	5	0.96
(1,813)	1:58:A:ILE:HG22	1:69:A:ARG:HB2	8	0.96
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	3	0.96
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	1	0.96
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	2	0.96
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	4	0.96
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	5	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	6	0.96
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	12	0.96
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	1	0.96
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG21	9	0.96
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	3	0.96
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	6	0.96
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	8	0.96
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	9	0.96
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	10	0.96
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	13	0.96
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	16	0.96
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG11	12	0.96
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG13	18	0.96
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG22	1	0.96
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG23	7	0.96
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG23	10	0.96
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG22	11	0.96
(1,433)	1:90:A:LYS:HA	1:90:A:LYS:HD3	12	0.96
(1,371)	1:119:A:VAL:HG21	1:119:A:VAL:HA	3	0.96
(1,371)	1:119:A:VAL:HG21	1:119:A:VAL:HA	14	0.96
(1,371)	1:119:A:VAL:HG21	1:119:A:VAL:HA	18	0.96
(1,310)	1:145:A:THR:H	1:145:A:THR:HG22	18	0.96
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB1	10	0.96
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	7	0.96
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG23	13	0.96
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	8	0.96
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	8	0.96
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	15	0.96
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	17	0.96
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	18	0.96
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	8	0.95
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	17	0.95
(1,2194)	1:150:A:GLU:H	1:151:A:GLN:HG3	19	0.95
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	13	0.95
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	8	0.95
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB1	10	0.95
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB3	15	0.95
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	17	0.95
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	4	0.95
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	20	0.95
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB2	13	0.95
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	6	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG23	13	0.95
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG22	14	0.95
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG21	18	0.95
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	6	0.95
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	9	0.95
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	12	0.95
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	18	0.95
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	13	0.95
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	14	0.95
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	19	0.95
(1,1601)	1:134:A:THR:HG23	1:165:A:MET:HG2	4	0.95
(1,1552)	1:57:A:LYS:HG3	1:57:A:LYS:HE2	12	0.95
(1,1552)	1:57:A:LYS:HG3	1:57:A:LYS:HE2	17	0.95
(1,1552)	1:57:A:LYS:HG3	1:57:A:LYS:HE2	19	0.95
(1,1545)	1:166:A:ALA:HB3	1:130:A:LEU:HD21	4	0.95
(1,1436)	1:130:A:LEU:H	1:130:A:LEU:HD23	2	0.95
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	4	0.95
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	7	0.95
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	20	0.95
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD11	6	0.95
(1,1274)	1:170:A:ILE:HA	1:170:A:ILE:HD12	3	0.95
(1,1246)	1:45:A:ILE:HD12	1:45:A:ILE:HB	4	0.95
(1,1246)	1:45:A:ILE:HD12	1:45:A:ILE:HB	8	0.95
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	20	0.95
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD13	10	0.95
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	13	0.95
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	14	0.95
(1,949)	1:111:A:VAL:HG21	1:112:A:PRO:HD3	2	0.95
(1,897)	1:173:A:ILE:HG23	1:173:A:ILE:HG13	7	0.95
(1,836)	1:45:A:ILE:HG21	1:46:A:LYS:HG2	12	0.95
(1,836)	1:45:A:ILE:HG22	1:46:A:LYS:HG2	14	0.95
(1,836)	1:45:A:ILE:HG23	1:46:A:LYS:HG2	16	0.95
(1,836)	1:45:A:ILE:HG22	1:46:A:LYS:HG2	20	0.95
(1,725)	1:121:A:GLY:HA2	1:126:A:THR:HB	10	0.95
(1,721)	1:168:A:ARG:HA	1:168:A:ARG:HD2	11	0.95
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	7	0.95
(1,698)	1:25:A:VAL:HG11	1:107:A:THR:HB	5	0.95
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	15	0.95
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG21	4	0.95
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	11	0.95
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	14	0.95
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	15	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	17	0.95
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	19	0.95
(1,619)	1:78:A:GLU:HG2	1:79:A:ALA:HB3	8	0.95
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG21	13	0.95
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG22	18	0.95
(1,440)	1:120:A:ILE:HD12	1:120:A:ILE:HG23	20	0.95
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	14	0.95
(1,368)	1:130:A:LEU:HD11	1:130:A:LEU:HB3	2	0.95
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD11	16	0.95
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG22	4	0.95
(1,114)	1:52:A:ALA:HA	1:82:A:LYS:HD2	9	0.95
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG23	11	0.95
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG22	18	0.95
(1,83)	1:90:A:LYS:HA	1:90:A:LYS:HD2	6	0.95
(1,83)	1:90:A:LYS:HA	1:90:A:LYS:HD2	9	0.95
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	7	0.95
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	19	0.95
(1,2449)	2:6:B:C:H5	2:6:B:C:H4'	16	0.94
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	13	0.94
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	19	0.94
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	12	0.94
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	15	0.94
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	13	0.94
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB3	12	0.94
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB3	19	0.94
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	10	0.94
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	3	0.94
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	9	0.94
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG23	15	0.94
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	2	0.94
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	13	0.94
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	12	0.94
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	15	0.94
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	19	0.94
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	19	0.94
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG21	10	0.94
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG22	15	0.94
(1,1569)	1:37:A:ILE:HG23	1:58:A:ILE:HG12	11	0.94
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	16	0.94
(1,1552)	1:57:A:LYS:HG3	1:57:A:LYS:HE2	18	0.94
(1,1545)	1:166:A:ALA:HB1	1:130:A:LEU:HD22	10	0.94
(1,1522)	1:33:A:ALA:HB3	1:30:A:PRO:HG3	16	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB1	14	0.94
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	8	0.94
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	12	0.94
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	15	0.94
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	17	0.94
(1,1403)	1:37:A:ILE:HG22	1:29:A:ILE:HD13	17	0.94
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD11	3	0.94
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD13	9	0.94
(1,1246)	1:45:A:ILE:HD13	1:45:A:ILE:HB	7	0.94
(1,1246)	1:45:A:ILE:HD11	1:45:A:ILE:HB	10	0.94
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD13	1	0.94
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD11	9	0.94
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	19	0.94
(1,949)	1:111:A:VAL:HG23	1:112:A:PRO:HD3	3	0.94
(1,836)	1:45:A:ILE:HG22	1:46:A:LYS:HG2	15	0.94
(1,831)	1:28:A:PHE:HB2	1:106:A:GLU:HB2	20	0.94
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG23	1	0.94
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG21	5	0.94
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG23	7	0.94
(1,813)	1:58:A:ILE:HG23	1:69:A:ARG:HB2	15	0.94
(1,709)	1:86:A:ARG:HB2	1:48:A:LEU:HD12	11	0.94
(1,698)	1:25:A:VAL:HG11	1:107:A:THR:HB	7	0.94
(1,677)	1:94:A:GLU:HG2	1:90:A:LYS:HG2	14	0.94
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	18	0.94
(1,517)	1:142:A:ARG:HD2	1:142:A:ARG:HA	15	0.94
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	19	0.94
(1,433)	1:90:A:LYS:HA	1:90:A:LYS:HD3	10	0.94
(1,433)	1:90:A:LYS:HA	1:90:A:LYS:HD3	14	0.94
(1,368)	1:130:A:LEU:HD13	1:130:A:LEU:HB3	16	0.94
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	3	0.94
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	5	0.94
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	8	0.94
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG23	5	0.94
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG22	16	0.94
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	15	0.93
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	2	0.93
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	18	0.93
(1,1868)	1:59:A:ALA:H	1:58:A:ILE:HG13	15	0.93
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	6	0.93
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	3	0.93
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	5	0.93
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	14	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG21	17	0.93
(1,1757)	1:21:A:GLU:H	1:21:A:GLU:HB3	4	0.93
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	12	0.93
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	15	0.93
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG11	11	0.93
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG11	12	0.93
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	18	0.93
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	19	0.93
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	14	0.93
(1,1552)	1:57:A:LYS:HG3	1:57:A:LYS:HE2	14	0.93
(1,1545)	1:166:A:ALA:HB3	1:130:A:LEU:HD21	13	0.93
(1,1536)	1:48:A:LEU:HB2	1:48:A:LEU:HD21	13	0.93
(1,1522)	1:33:A:ALA:HB2	1:30:A:PRO:HG3	4	0.93
(1,1513)	1:157:A:ILE:HD13	1:139:A:VAL:HB	12	0.93
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	3	0.93
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	6	0.93
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	9	0.93
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	11	0.93
(1,1397)	1:91:A:LEU:HA	1:91:A:LEU:HD22	17	0.93
(1,1390)	1:105:A:LEU:HD21	1:29:A:ILE:HG23	13	0.93
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD12	4	0.93
(1,1246)	1:45:A:ILE:HD13	1:45:A:ILE:HB	6	0.93
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	1	0.93
(1,1111)	1:169:A:LYS:H	1:169:A:LYS:HG2	18	0.93
(1,925)	1:107:A:THR:HA	1:27:A:VAL:HG13	11	0.93
(1,918)	1:102:A:GLU:HA	1:102:A:GLU:HG2	1	0.93
(1,918)	1:102:A:GLU:HA	1:102:A:GLU:HG2	2	0.93
(1,918)	1:102:A:GLU:HA	1:102:A:GLU:HG2	4	0.93
(1,918)	1:102:A:GLU:HA	1:102:A:GLU:HG2	6	0.93
(1,897)	1:173:A:ILE:HG21	1:173:A:ILE:HG13	16	0.93
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	9	0.93
(1,836)	1:45:A:ILE:HG23	1:46:A:LYS:HG2	11	0.93
(1,836)	1:45:A:ILE:HG22	1:46:A:LYS:HG2	17	0.93
(1,836)	1:45:A:ILE:HG23	1:46:A:LYS:HG2	19	0.93
(1,817)	1:130:A:LEU:HD23	1:130:A:LEU:HB3	3	0.93
(1,817)	1:130:A:LEU:HD23	1:130:A:LEU:HB3	7	0.93
(1,817)	1:130:A:LEU:HD21	1:130:A:LEU:HB3	19	0.93
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	10	0.93
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	16	0.93
(1,698)	1:25:A:VAL:HG13	1:107:A:THR:HB	8	0.93
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	8	0.93
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	9	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	13	0.93
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	14	0.93
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	17	0.93
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	18	0.93
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG21	6	0.93
(1,677)	1:94:A:GLU:HG2	1:90:A:LYS:HG2	12	0.93
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG21	3	0.93
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG23	5	0.93
(1,433)	1:90:A:LYS:HA	1:90:A:LYS:HD3	16	0.93
(1,433)	1:90:A:LYS:HA	1:90:A:LYS:HD3	17	0.93
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD11	11	0.93
(1,326)	1:111:A:VAL:HG23	1:116:A:ALA:HB1	18	0.93
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG21	1	0.93
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG22	3	0.93
(1,111)	1:45:A:ILE:HA	1:45:A:ILE:HG22	20	0.93
(1,83)	1:90:A:LYS:HA	1:90:A:LYS:HD2	4	0.93
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	5	0.93
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	6	0.93
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	10	0.93
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	14	0.93
(1,2175)	1:26:A:HIS:H	1:25:A:VAL:HG13	10	0.92
(1,2133)	1:98:A:GLY:H	1:99:A:PRO:HG2	10	0.92
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG12	20	0.92
(1,1935)	1:66:A:SER:H	1:63:A:THR:HG21	14	0.92
(1,1935)	1:66:A:SER:H	1:63:A:THR:HG23	15	0.92
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG12	11	0.92
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	19	0.92
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	2	0.92
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	16	0.92
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB3	14	0.92
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	7	0.92
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	8	0.92
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	4	0.92
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	3	0.92
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	7	0.92
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	13	0.92
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG23	7	0.92
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG21	8	0.92
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD12	1	0.92
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	19	0.92
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG12	15	0.92
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	3	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	8	0.92
(1,1592)	1:142:A:ARG:HD2	1:142:A:ARG:HB2	9	0.92
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	2	0.92
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	16	0.92
(1,1390)	1:105:A:LEU:HD21	1:29:A:ILE:HG21	14	0.92
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	19	0.92
(1,1246)	1:45:A:ILE:HD13	1:45:A:ILE:HB	5	0.92
(1,1246)	1:45:A:ILE:HD11	1:45:A:ILE:HB	9	0.92
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD13	4	0.92
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD11	16	0.92
(1,918)	1:102:A:GLU:HA	1:102:A:GLU:HG2	9	0.92
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG22	2	0.92
(1,786)	1:34:A:VAL:HA	1:34:A:VAL:HG21	15	0.92
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	2	0.92
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	3	0.92
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	5	0.92
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	6	0.92
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	7	0.92
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	10	0.92
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	12	0.92
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	16	0.92
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	20	0.92
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	20	0.92
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG13	15	0.92
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG22	15	0.92
(1,326)	1:111:A:VAL:HG22	1:116:A:ALA:HB2	20	0.92
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB1	2	0.92
(1,215)	1:115:A:ALA:HB1	1:177:A:VAL:HG22	20	0.92
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG22	6	0.92
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	2	0.92
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	9	0.92
(1,21)	1:22:A:GLN:H	1:21:A:GLU:HA	11	0.92
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB3	5	0.91
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB1	6	0.91
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB1	8	0.91
(1,1877)	1:113:A:ALA:H	1:151:A:GLN:HG2	19	0.91
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	7	0.91
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB3	15	0.91
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	14	0.91
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	20	0.91
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	6	0.91
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG23	10	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG23	19	0.91
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	18	0.91
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	1	0.91
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	14	0.91
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	7	0.91
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	10	0.91
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	1	0.91
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	2	0.91
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	4	0.91
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	6	0.91
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	9	0.91
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	14	0.91
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	1	0.91
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG11	18	0.91
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG12	20	0.91
(1,1601)	1:134:A:THR:HG21	1:165:A:MET:HG2	15	0.91
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	11	0.91
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	18	0.91
(1,1532)	1:177:A:VAL:HG13	1:178:A:LYS:HG2	12	0.91
(1,1522)	1:33:A:ALA:HB3	1:30:A:PRO:HG3	17	0.91
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB1	16	0.91
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	14	0.91
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD11	7	0.91
(1,1281)	1:29:A:ILE:HD13	1:34:A:VAL:HA	16	0.91
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	13	0.91
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	15	0.91
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	11	0.91
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	1	0.91
(1,949)	1:111:A:VAL:HG22	1:112:A:PRO:HD3	9	0.91
(1,949)	1:111:A:VAL:HG22	1:112:A:PRO:HD3	19	0.91
(1,897)	1:173:A:ILE:HG23	1:173:A:ILE:HG13	9	0.91
(1,891)	1:45:A:ILE:HG22	1:45:A:ILE:HG13	15	0.91
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	18	0.91
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	4	0.91
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	11	0.91
(1,694)	1:21:A:GLU:HA	1:21:A:GLU:HB2	19	0.91
(1,691)	1:103:A:VAL:HG23	1:105:A:LEU:HD22	13	0.91
(1,677)	1:94:A:GLU:HG2	1:90:A:LYS:HG2	7	0.91
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG23	4	0.91
(1,527)	1:96:A:PHE:HD1	1:96:A:PHE:HA	17	0.91
(1,520)	1:127:A:VAL:HG12	1:137:A:GLU:HA	5	0.91
(1,504)	1:122:A:LYS:H	1:122:A:LYS:HG2	14	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,460)	1:158:A:GLY:HA2	1:156:A:ILE:HG23	4	0.91
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	3	0.91
(1,440)	1:120:A:ILE:HD12	1:120:A:ILE:HG22	10	0.91
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD11	18	0.91
(1,326)	1:111:A:VAL:HG22	1:116:A:ALA:HB3	11	0.91
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	10	0.91
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG23	9	0.91
(1,192)	1:50:A:ARG:HG2	1:50:A:ARG:HA	4	0.91
(1,192)	1:50:A:ARG:HG2	1:50:A:ARG:HA	5	0.91
(1,192)	1:50:A:ARG:HG2	1:50:A:ARG:HA	6	0.91
(1,192)	1:50:A:ARG:HG2	1:50:A:ARG:HA	16	0.91
(1,2432)	2:6:B:C:H1'	2:5:B:6MZ:H1'	14	0.9
(1,2252)	1:65:A:ASP:H	1:63:A:THR:HG23	16	0.9
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB2	1	0.9
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB1	2	0.9
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB3	3	0.9
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG12	10	0.9
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	8	0.9
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	11	0.9
(1,1815)	1:91:A:LEU:H	1:90:A:LYS:HD2	4	0.9
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG21	16	0.9
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD22	14	0.9
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	16	0.9
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	18	0.9
(1,1758)	1:62:A:GLU:H	1:62:A:GLU:HG2	3	0.9
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	6	0.9
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	20	0.9
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	3	0.9
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	1	0.9
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	12	0.9
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	20	0.9
(1,1545)	1:166:A:ALA:HB2	1:130:A:LEU:HD21	8	0.9
(1,1536)	1:48:A:LEU:HB2	1:48:A:LEU:HD21	16	0.9
(1,1536)	1:48:A:LEU:HB2	1:48:A:LEU:HD23	18	0.9
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB1	18	0.9
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD11	2	0.9
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD11	15	0.9
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD12	13	0.9
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	11	0.9
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	14	0.9
(1,1059)	1:48:A:LEU:HD11	1:51:A:PHE:HD1	9	0.9
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	4	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,949)	1:111:A:VAL:HG23	1:112:A:PRO:HD3	17	0.9
(1,925)	1:107:A:THR:HA	1:27:A:VAL:HG13	16	0.9
(1,897)	1:173:A:ILE:HG21	1:173:A:ILE:HG13	14	0.9
(1,897)	1:173:A:ILE:HG23	1:173:A:ILE:HG13	18	0.9
(1,897)	1:173:A:ILE:HG22	1:173:A:ILE:HG13	20	0.9
(1,891)	1:45:A:ILE:HG23	1:45:A:ILE:HG13	19	0.9
(1,836)	1:45:A:ILE:HG22	1:46:A:LYS:HG2	18	0.9
(1,830)	1:72:A:VAL:HG21	1:57:A:LYS:HE3	7	0.9
(1,827)	1:91:A:LEU:HD22	1:30:A:PRO:HG3	13	0.9
(1,809)	1:73:A:ILE:HD12	1:80:A:GLN:HA	17	0.9
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	12	0.9
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG21	2	0.9
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG23	7	0.9
(1,677)	1:94:A:GLU:HG2	1:90:A:LYS:HG2	8	0.9
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	8	0.9
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG23	16	0.9
(1,326)	1:111:A:VAL:HG23	1:116:A:ALA:HB1	1	0.9
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	1	0.9
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	4	0.9
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	6	0.9
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG23	10	0.9
(1,192)	1:50:A:ARG:HG2	1:50:A:ARG:HA	8	0.9
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	16	0.9
(1,82)	1:154:A:VAL:HA	1:154:A:VAL:HG21	12	0.9
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	15	0.89
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	19	0.89
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD12	5	0.89
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD11	10	0.89
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG13	13	0.89
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG13	14	0.89
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	13	0.89
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	19	0.89
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB2	11	0.89
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB1	20	0.89
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	17	0.89
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	1	0.89
(1,1792)	1:100:A:LYS:H	1:100:A:LYS:HG2	12	0.89
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	20	0.89
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	9	0.89
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	10	0.89
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG22	2	0.89
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG21	5	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG23	6	0.89
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG11	14	0.89
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG13	17	0.89
(1,1619)	1:157:A:ILE:HG23	1:104:A:LYS:HD2	10	0.89
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	6	0.89
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	8	0.89
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	10	0.89
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	11	0.89
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	13	0.89
(1,1569)	1:37:A:ILE:HG22	1:58:A:ILE:HG12	16	0.89
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	2	0.89
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	4	0.89
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	15	0.89
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	17	0.89
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	6	0.89
(1,1532)	1:177:A:VAL:HG13	1:178:A:LYS:HG2	18	0.89
(1,1441)	1:154:A:VAL:HG23	1:140:A:VAL:HA	17	0.89
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	1	0.89
(1,1422)	1:34:A:VAL:H	1:34:A:VAL:HB	5	0.89
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG21	16	0.89
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD11	3	0.89
(1,1127)	1:94:A:GLU:H	1:93:A:GLU:HG3	20	0.89
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	17	0.89
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	20	0.89
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	1	0.89
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	4	0.89
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	10	0.89
(1,949)	1:111:A:VAL:HG23	1:112:A:PRO:HD3	13	0.89
(1,949)	1:111:A:VAL:HG21	1:112:A:PRO:HD3	15	0.89
(1,925)	1:107:A:THR:HA	1:27:A:VAL:HG12	17	0.89
(1,897)	1:173:A:ILE:HG22	1:173:A:ILE:HG13	10	0.89
(1,897)	1:173:A:ILE:HG22	1:173:A:ILE:HG13	13	0.89
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG23	3	0.89
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG22	11	0.89
(1,809)	1:73:A:ILE:HD12	1:80:A:GLN:HA	19	0.89
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG22	8	0.89
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	13	0.89
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG21	20	0.89
(1,504)	1:122:A:LYS:H	1:122:A:LYS:HG2	19	0.89
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	4	0.89
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	7	0.89
(1,310)	1:145:A:THR:H	1:145:A:THR:HG23	7	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB1	9	0.89
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	16	0.89
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	11	0.88
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	12	0.88
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	13	0.88
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	14	0.88
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	16	0.88
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	4	0.88
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	7	0.88
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB1	4	0.88
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG11	19	0.88
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	1	0.88
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	2	0.88
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	16	0.88
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	17	0.88
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	18	0.88
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	17	0.88
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG21	2	0.88
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG21	4	0.88
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	6	0.88
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	8	0.88
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	2	0.88
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	8	0.88
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	6	0.88
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG23	9	0.88
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD13	8	0.88
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	6	0.88
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG13	13	0.88
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	6	0.88
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	7	0.88
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	20	0.88
(1,1569)	1:37:A:ILE:HG21	1:58:A:ILE:HG12	14	0.88
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	3	0.88
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	7	0.88
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	9	0.88
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	13	0.88
(1,1560)	1:99:A:PRO:HD2	1:99:A:PRO:HB3	19	0.88
(1,1537)	1:91:A:LEU:HD21	1:96:A:PHE:HB2	15	0.88
(1,1532)	1:177:A:VAL:HG13	1:178:A:LYS:HG2	11	0.88
(1,1513)	1:157:A:ILE:HD12	1:139:A:VAL:HB	8	0.88
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB3	17	0.88
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD11	10	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD11	11	0.88
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	13	0.88
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	15	0.88
(1,1063)	1:103:A:VAL:HG21	1:97:A:PHE:HE1	20	0.88
(1,949)	1:111:A:VAL:HG22	1:112:A:PRO:HD3	12	0.88
(1,949)	1:111:A:VAL:HG21	1:112:A:PRO:HD3	20	0.88
(1,897)	1:173:A:ILE:HG22	1:173:A:ILE:HG13	8	0.88
(1,836)	1:45:A:ILE:HG23	1:46:A:LYS:HG2	13	0.88
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG23	4	0.88
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG22	8	0.88
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG21	10	0.88
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG23	1	0.88
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	3	0.88
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	6	0.88
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	7	0.88
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	8	0.88
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	9	0.88
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	10	0.88
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	12	0.88
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	14	0.88
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	17	0.88
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	18	0.88
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	20	0.88
(1,504)	1:122:A:LYS:H	1:122:A:LYS:HG2	17	0.88
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	9	0.88
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD11	14	0.88
(1,371)	1:119:A:VAL:HG21	1:119:A:VAL:HA	15	0.88
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	2	0.88
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	11	0.88
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	17	0.88
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	19	0.88
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	10	0.88
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	20	0.87
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG11	12	0.87
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG13	16	0.87
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB1	3	0.87
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	19	0.87
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	13	0.87
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG22	12	0.87
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD23	16	0.87
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	20	0.87
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	1	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	7	0.87
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG21	1	0.87
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD11	7	0.87
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	8	0.87
(1,1625)	1:72:A:VAL:H	1:72:A:VAL:HG12	19	0.87
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	2	0.87
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	4	0.87
(1,1569)	1:37:A:ILE:HG22	1:58:A:ILE:HG12	3	0.87
(1,1513)	1:157:A:ILE:HD13	1:139:A:VAL:HB	17	0.87
(1,1390)	1:105:A:LEU:HD21	1:29:A:ILE:HG22	12	0.87
(1,1390)	1:105:A:LEU:HD21	1:29:A:ILE:HG21	15	0.87
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG23	11	0.87
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG21	12	0.87
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG21	13	0.87
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD11	5	0.87
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD13	14	0.87
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	1	0.87
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	9	0.87
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	12	0.87
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	17	0.87
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	19	0.87
(1,1009)	1:160:A:PHE:HA	1:163:A:SER:HB2	14	0.87
(1,949)	1:111:A:VAL:HG22	1:112:A:PRO:HD3	14	0.87
(1,897)	1:173:A:ILE:HG23	1:173:A:ILE:HG13	2	0.87
(1,897)	1:173:A:ILE:HG21	1:173:A:ILE:HG13	5	0.87
(1,897)	1:173:A:ILE:HG22	1:173:A:ILE:HG13	11	0.87
(1,897)	1:173:A:ILE:HG23	1:173:A:ILE:HG13	12	0.87
(1,897)	1:173:A:ILE:HG22	1:173:A:ILE:HG13	19	0.87
(1,809)	1:73:A:ILE:HD11	1:80:A:GLN:HA	18	0.87
(1,728)	1:88:A:TYR:HA	1:103:A:VAL:HG11	17	0.87
(1,698)	1:25:A:VAL:HG12	1:107:A:THR:HB	20	0.87
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG23	3	0.87
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG23	5	0.87
(1,677)	1:94:A:GLU:HG2	1:90:A:LYS:HG2	20	0.87
(1,673)	1:104:A:LYS:HG2	1:104:A:LYS:HE2	18	0.87
(1,673)	1:104:A:LYS:HG2	1:104:A:LYS:HE2	20	0.87
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	7	0.87
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	8	0.87
(1,440)	1:120:A:ILE:HD12	1:120:A:ILE:HG22	19	0.87
(1,408)	1:120:A:ILE:HG22	1:117:A:GLY:HA2	13	0.87
(1,408)	1:120:A:ILE:HG21	1:117:A:GLY:HA2	18	0.87
(1,377)	1:45:A:ILE:H	1:45:A:ILE:HD11	19	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,371)	1:119:A:VAL:HG21	1:119:A:VAL:HA	13	0.87
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG21	11	0.87
(1,326)	1:111:A:VAL:HG23	1:116:A:ALA:HB1	8	0.87
(1,326)	1:111:A:VAL:HG22	1:116:A:ALA:HB1	16	0.87
(1,310)	1:145:A:THR:H	1:145:A:THR:HG21	1	0.87
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG22	7	0.87
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	13	0.87
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	14	0.87
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	15	0.87
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	16	0.87
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	18	0.87
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	20	0.87
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	17	0.87
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	17	0.86
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	18	0.86
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG12	13	0.86
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG13	20	0.86
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	13	0.86
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	15	0.86
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD22	12	0.86
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD23	19	0.86
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG21	8	0.86
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	3	0.86
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG22	3	0.86
(1,1714)	1:37:A:ILE:H	1:37:A:ILE:HG22	4	0.86
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD11	10	0.86
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	9	0.86
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	2	0.86
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	9	0.86
(1,1610)	1:61:A:PRO:HD3	1:61:A:PRO:HB2	10	0.86
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	1	0.86
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	16	0.86
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG21	18	0.86
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD13	8	0.86
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG23	15	0.86
(1,1192)	1:181:A:HIS:HB3	1:178:A:LYS:HA	18	0.86
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	3	0.86
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD13	2	0.86
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	13	0.86
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	12	0.86
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	9	0.86
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	2	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	6	0.86
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	9	0.86
(1,897)	1:173:A:ILE:HG22	1:173:A:ILE:HG13	1	0.86
(1,897)	1:173:A:ILE:HG23	1:173:A:ILE:HG13	4	0.86
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG21	9	0.86
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG21	14	0.86
(1,802)	1:50:A:ARG:HD2	1:50:A:ARG:HB2	5	0.86
(1,802)	1:50:A:ARG:HD2	1:50:A:ARG:HB2	16	0.86
(1,784)	1:34:A:VAL:HG11	1:58:A:ILE:HD12	13	0.86
(1,698)	1:25:A:VAL:HG13	1:107:A:THR:HB	19	0.86
(1,676)	1:90:A:LYS:HG2	1:90:A:LYS:HE2	13	0.86
(1,676)	1:90:A:LYS:HG2	1:90:A:LYS:HE2	15	0.86
(1,676)	1:90:A:LYS:HG2	1:90:A:LYS:HE2	17	0.86
(1,676)	1:90:A:LYS:HG2	1:90:A:LYS:HE2	18	0.86
(1,676)	1:90:A:LYS:HG2	1:90:A:LYS:HE2	20	0.86
(1,673)	1:104:A:LYS:HG2	1:104:A:LYS:HE2	5	0.86
(1,673)	1:104:A:LYS:HG2	1:104:A:LYS:HE2	15	0.86
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG23	2	0.86
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG23	3	0.86
(1,525)	1:105:A:LEU:HD13	1:97:A:PHE:HD1	5	0.86
(1,504)	1:122:A:LYS:H	1:122:A:LYS:HG2	6	0.86
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	8	0.86
(1,408)	1:120:A:ILE:HG22	1:117:A:GLY:HA2	14	0.86
(1,326)	1:111:A:VAL:HG23	1:116:A:ALA:HB3	6	0.86
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG22	2	0.86
(1,310)	1:145:A:THR:H	1:145:A:THR:HG23	9	0.86
(1,300)	1:74:A:THR:H	1:55:A:SER:HB2	11	0.86
(1,195)	1:38:A:ILE:HG12	1:38:A:ILE:HG23	2	0.86
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	12	0.86
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	18	0.86
(1,2163)	1:102:A:GLU:H	1:102:A:GLU:HB3	19	0.85
(1,2073)	1:34:A:VAL:H	1:31:A:ALA:HB1	18	0.85
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB2	2	0.85
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	7	0.85
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	5	0.85
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD22	11	0.85
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	10	0.85
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD12	4	0.85
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	3	0.85
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	6	0.85
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	17	0.85
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	14	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	17	0.85
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	20	0.85
(1,1513)	1:157:A:ILE:HD13	1:139:A:VAL:HB	6	0.85
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	11	0.85
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	4	0.85
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	7	0.85
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	18	0.85
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	20	0.85
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	16	0.85
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD12	6	0.85
(1,925)	1:107:A:THR:HA	1:27:A:VAL:HG13	15	0.85
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	1	0.85
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	3	0.85
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	7	0.85
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	10	0.85
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	11	0.85
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	14	0.85
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	16	0.85
(1,897)	1:173:A:ILE:HG21	1:173:A:ILE:HG13	6	0.85
(1,897)	1:173:A:ILE:HG23	1:173:A:ILE:HG13	17	0.85
(1,817)	1:130:A:LEU:HD22	1:130:A:LEU:HB3	8	0.85
(1,813)	1:58:A:ILE:HG22	1:69:A:ARG:HB2	11	0.85
(1,775)	1:113:A:ALA:HB3	1:152:A:VAL:HG13	4	0.85
(1,676)	1:90:A:LYS:HG2	1:90:A:LYS:HE2	12	0.85
(1,655)	1:50:A:ARG:HG3	1:50:A:ARG:HA	10	0.85
(1,536)	1:68:A:VAL:HA	1:68:A:VAL:HG22	14	0.85
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	3	0.85
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	11	0.85
(1,392)	1:74:A:THR:H	1:73:A:ILE:HD12	17	0.85
(1,371)	1:119:A:VAL:HG21	1:119:A:VAL:HA	20	0.85
(1,326)	1:111:A:VAL:HG22	1:116:A:ALA:HB1	14	0.85
(1,326)	1:111:A:VAL:HG22	1:116:A:ALA:HB1	19	0.85
(1,310)	1:145:A:THR:H	1:145:A:THR:HG22	10	0.85
(1,213)	1:36:A:ALA:HB2	1:37:A:ILE:HD12	1	0.85
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	5	0.85
(1,82)	1:154:A:VAL:HA	1:154:A:VAL:HG23	15	0.85
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	17	0.84
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	18	0.84
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	12	0.84
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG11	20	0.84
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG12	12	0.84
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	4	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	19	0.84
(1,1800)	1:170:A:ILE:H	1:170:A:ILE:HG12	9	0.84
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	2	0.84
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	4	0.84
(1,1601)	1:134:A:THR:HG22	1:165:A:MET:HG2	2	0.84
(1,1569)	1:37:A:ILE:HG21	1:58:A:ILE:HG12	5	0.84
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	13	0.84
(1,1532)	1:177:A:VAL:HG12	1:178:A:LYS:HG2	17	0.84
(1,1532)	1:177:A:VAL:HG12	1:178:A:LYS:HG2	19	0.84
(1,1522)	1:33:A:ALA:HB2	1:30:A:PRO:HG3	20	0.84
(1,1513)	1:157:A:ILE:HD11	1:139:A:VAL:HB	4	0.84
(1,1403)	1:37:A:ILE:HG23	1:29:A:ILE:HD12	15	0.84
(1,1366)	1:48:A:LEU:HD22	1:86:A:ARG:HD3	1	0.84
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	9	0.84
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	2	0.84
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	8	0.84
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	10	0.84
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	6	0.84
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	14	0.84
(1,1009)	1:160:A:PHE:HA	1:163:A:SER:HB2	7	0.84
(1,961)	1:178:A:LYS:HE2	1:178:A:LYS:HB2	18	0.84
(1,949)	1:111:A:VAL:HG22	1:112:A:PRO:HD3	7	0.84
(1,897)	1:173:A:ILE:HG23	1:173:A:ILE:HG13	15	0.84
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG23	2	0.84
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG21	6	0.84
(1,809)	1:73:A:ILE:HD13	1:80:A:GLN:HA	15	0.84
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG23	4	0.84
(1,782)	1:105:A:LEU:HD11	1:105:A:LEU:HB3	5	0.84
(1,691)	1:103:A:VAL:HG22	1:105:A:LEU:HD21	17	0.84
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG23	13	0.84
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD22	18	0.84
(1,504)	1:122:A:LYS:H	1:122:A:LYS:HG2	9	0.84
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD11	2	0.84
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	14	0.84
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG13	14	0.84
(1,392)	1:74:A:THR:H	1:73:A:ILE:HD11	12	0.84
(1,371)	1:119:A:VAL:HG23	1:119:A:VAL:HA	4	0.84
(1,371)	1:119:A:VAL:HG21	1:119:A:VAL:HA	12	0.84
(1,371)	1:119:A:VAL:HG23	1:119:A:VAL:HA	19	0.84
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG22	13	0.84
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG22	5	0.84
(1,221)	1:104:A:LYS:HE2	1:104:A:LYS:HG3	7	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,221)	1:104:A:LYS:HE2	1:104:A:LYS:HG3	11	0.84
(1,221)	1:104:A:LYS:HE2	1:104:A:LYS:HG3	14	0.84
(1,198)	1:133:A:LEU:HB3	1:133:A:LEU:HD22	9	0.84
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	13	0.84
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	17	0.83
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	16	0.83
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB3	13	0.83
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG11	13	0.83
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG13	17	0.83
(1,1899)	1:83:A:ALA:H	1:73:A:ILE:HD13	20	0.83
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB3	1	0.83
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	12	0.83
(1,1792)	1:100:A:LYS:H	1:100:A:LYS:HG2	15	0.83
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	16	0.83
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	4	0.83
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	7	0.83
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	12	0.83
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	17	0.83
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	4	0.83
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	8	0.83
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	12	0.83
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG12	11	0.83
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	20	0.83
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	10	0.83
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	5	0.83
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	6	0.83
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	2	0.83
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD12	7	0.83
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD12	3	0.83
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	7	0.83
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	12	0.83
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	11	0.83
(1,1009)	1:160:A:PHE:HA	1:163:A:SER:HB2	18	0.83
(1,949)	1:111:A:VAL:HG22	1:112:A:PRO:HD3	11	0.83
(1,949)	1:111:A:VAL:HG22	1:112:A:PRO:HD3	16	0.83
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	12	0.83
(1,817)	1:130:A:LEU:HD22	1:130:A:LEU:HB3	4	0.83
(1,673)	1:104:A:LYS:HG2	1:104:A:LYS:HE2	4	0.83
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG21	7	0.83
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG22	8	0.83
(1,371)	1:119:A:VAL:HG22	1:119:A:VAL:HA	9	0.83
(1,371)	1:119:A:VAL:HG21	1:119:A:VAL:HA	10	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,310)	1:145:A:THR:H	1:145:A:THR:HG21	4	0.83
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB1	11	0.83
(1,248)	1:37:A:ILE:HD11	1:37:A:ILE:HB	2	0.83
(1,248)	1:37:A:ILE:HD13	1:37:A:ILE:HB	3	0.83
(1,248)	1:37:A:ILE:HD11	1:37:A:ILE:HB	5	0.83
(1,248)	1:37:A:ILE:HD13	1:37:A:ILE:HB	6	0.83
(1,248)	1:37:A:ILE:HD11	1:37:A:ILE:HB	16	0.83
(1,221)	1:104:A:LYS:HE2	1:104:A:LYS:HG3	1	0.83
(1,221)	1:104:A:LYS:HE2	1:104:A:LYS:HG3	10	0.83
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	14	0.82
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	1	0.82
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG13	11	0.82
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG13	19	0.82
(1,1899)	1:83:A:ALA:H	1:73:A:ILE:HD11	16	0.82
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB2	4	0.82
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	9	0.82
(1,1846)	1:119:A:VAL:H	1:117:A:GLY:HA3	11	0.82
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	12	0.82
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	7	0.82
(1,1734)	1:53:A:SER:H	1:53:A:SER:HB3	11	0.82
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD12	18	0.82
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	15	0.82
(1,1564)	1:92:A:LYS:HD3	1:103:A:VAL:HG12	16	0.82
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	2	0.82
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	10	0.82
(1,1532)	1:177:A:VAL:HG13	1:178:A:LYS:HG2	14	0.82
(1,1522)	1:33:A:ALA:HB3	1:30:A:PRO:HG3	12	0.82
(1,1513)	1:157:A:ILE:HD13	1:139:A:VAL:HB	20	0.82
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG23	14	0.82
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD12	14	0.82
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG21	14	0.82
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG22	20	0.82
(1,1307)	1:107:A:THR:HG21	1:27:A:VAL:H	14	0.82
(1,1281)	1:29:A:ILE:HD13	1:34:A:VAL:HA	13	0.82
(1,1281)	1:29:A:ILE:HD11	1:34:A:VAL:HA	14	0.82
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	7	0.82
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	2	0.82
(1,1182)	1:87:A:ILE:HA	1:87:A:ILE:HG12	16	0.82
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	18	0.82
(1,961)	1:178:A:LYS:HE2	1:178:A:LYS:HB2	16	0.82
(1,949)	1:111:A:VAL:HG21	1:112:A:PRO:HD3	10	0.82
(1,827)	1:91:A:LEU:HD23	1:30:A:PRO:HG3	12	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,818)	1:130:A:LEU:HD11	1:130:A:LEU:HB2	13	0.82
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG23	16	0.82
(1,784)	1:34:A:VAL:HG12	1:58:A:ILE:HD13	10	0.82
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG22	18	0.82
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG22	1	0.82
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG21	6	0.82
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG21	9	0.82
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG22	10	0.82
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB1	18	0.82
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD13	4	0.82
(1,435)	1:100:A:LYS:H	1:100:A:LYS:HB3	10	0.82
(1,434)	1:100:A:LYS:H	1:100:A:LYS:HB2	16	0.82
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	17	0.82
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	20	0.82
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	5	0.82
(1,371)	1:119:A:VAL:HG23	1:119:A:VAL:HA	2	0.82
(1,371)	1:119:A:VAL:HG22	1:119:A:VAL:HA	6	0.82
(1,371)	1:119:A:VAL:HG23	1:119:A:VAL:HA	7	0.82
(1,371)	1:119:A:VAL:HG23	1:119:A:VAL:HA	8	0.82
(1,310)	1:145:A:THR:H	1:145:A:THR:HG23	3	0.82
(1,310)	1:145:A:THR:H	1:145:A:THR:HG23	8	0.82
(1,248)	1:37:A:ILE:HD11	1:37:A:ILE:HB	4	0.82
(1,248)	1:37:A:ILE:HD13	1:37:A:ILE:HB	9	0.82
(1,248)	1:37:A:ILE:HD13	1:37:A:ILE:HB	10	0.82
(1,248)	1:37:A:ILE:HD13	1:37:A:ILE:HB	18	0.82
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	11	0.82
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	7	0.81
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	12	0.81
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	20	0.81
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	18	0.81
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	1	0.81
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	5	0.81
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB1	5	0.81
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	8	0.81
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	10	0.81
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	16	0.81
(1,1601)	1:134:A:THR:HG21	1:165:A:MET:HG2	7	0.81
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	3	0.81
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	11	0.81
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	14	0.81
(1,1390)	1:105:A:LEU:HD21	1:29:A:ILE:HG21	7	0.81
(1,1366)	1:48:A:LEU:HD22	1:86:A:ARG:HD3	3	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1364)	1:48:A:LEU:HD13	1:86:A:ARG:HD3	9	0.81
(1,1281)	1:29:A:ILE:HD12	1:34:A:VAL:HA	19	0.81
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD12	18	0.81
(1,1135)	1:80:A:GLN:HE22	1:25:A:VAL:HG22	8	0.81
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD13	10	0.81
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD12	17	0.81
(1,1053)	1:108:A:HIS:HD2	1:106:A:GLU:HG2	3	0.81
(1,1009)	1:160:A:PHE:HA	1:163:A:SER:HB2	15	0.81
(1,949)	1:111:A:VAL:HG23	1:112:A:PRO:HD3	18	0.81
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	16	0.81
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	18	0.81
(1,698)	1:25:A:VAL:HG12	1:107:A:THR:HB	12	0.81
(1,691)	1:103:A:VAL:HG21	1:105:A:LEU:HD22	12	0.81
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG21	19	0.81
(1,673)	1:104:A:LYS:HG2	1:104:A:LYS:HE2	13	0.81
(1,673)	1:104:A:LYS:HG2	1:104:A:LYS:HE2	19	0.81
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG22	5	0.81
(1,655)	1:50:A:ARG:HG3	1:50:A:ARG:HA	11	0.81
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB2	13	0.81
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD22	11	0.81
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	11	0.81
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	17	0.81
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	2	0.81
(1,408)	1:120:A:ILE:HG22	1:117:A:GLY:HA2	17	0.81
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	16	0.81
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	2	0.81
(1,371)	1:119:A:VAL:HG21	1:119:A:VAL:HA	1	0.81
(1,371)	1:119:A:VAL:HG23	1:119:A:VAL:HA	5	0.81
(1,371)	1:119:A:VAL:HG21	1:119:A:VAL:HA	16	0.81
(1,310)	1:145:A:THR:H	1:145:A:THR:HG22	5	0.81
(1,248)	1:37:A:ILE:HD12	1:37:A:ILE:HB	1	0.81
(1,248)	1:37:A:ILE:HD13	1:37:A:ILE:HB	8	0.81
(1,164)	1:73:A:ILE:HB	1:84:A:GLN:HG2	11	0.81
(1,164)	1:73:A:ILE:HB	1:84:A:GLN:HG2	14	0.81
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	1	0.81
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	4	0.81
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	10	0.81
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	12	0.81
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	16	0.81
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	1	0.81
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	16	0.81
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	16	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	11	0.8
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	13	0.8
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	15	0.8
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	3	0.8
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	6	0.8
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB2	20	0.8
(1,2025)	1:90:A:LYS:H	1:90:A:LYS:HG2	7	0.8
(1,2025)	1:90:A:LYS:H	1:90:A:LYS:HG2	8	0.8
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD13	1	0.8
(1,1935)	1:66:A:SER:H	1:63:A:THR:HG23	18	0.8
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG12	15	0.8
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB1	10	0.8
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB2	9	0.8
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG23	6	0.8
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	3	0.8
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	11	0.8
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	10	0.8
(1,1601)	1:134:A:THR:HG22	1:165:A:MET:HG2	18	0.8
(1,1441)	1:154:A:VAL:HG23	1:140:A:VAL:HA	13	0.8
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	4	0.8
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	18	0.8
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	11	0.8
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	18	0.8
(1,1192)	1:181:A:HIS:HB3	1:178:A:LYS:HA	11	0.8
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	7	0.8
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	8	0.8
(1,1146)	1:174:A:LEU:HD22	1:111:A:VAL:HA	14	0.8
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	2	0.8
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	3	0.8
(1,1009)	1:160:A:PHE:HA	1:163:A:SER:HB2	19	0.8
(1,897)	1:173:A:ILE:HG21	1:173:A:ILE:HG13	3	0.8
(1,886)	1:27:A:VAL:HG11	1:73:A:ILE:HG21	9	0.8
(1,830)	1:72:A:VAL:HG21	1:57:A:LYS:HE3	9	0.8
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	1	0.8
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG23	10	0.8
(1,655)	1:50:A:ARG:HG3	1:50:A:ARG:HA	12	0.8
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	19	0.8
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD21	10	0.8
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	12	0.8
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG12	3	0.8
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	9	0.8
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	10	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,371)	1:119:A:VAL:HG22	1:119:A:VAL:HA	11	0.8
(1,248)	1:37:A:ILE:HD11	1:37:A:ILE:HB	7	0.8
(1,248)	1:37:A:ILE:HD13	1:37:A:ILE:HB	11	0.8
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	4	0.8
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	19	0.79
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD11	3	0.79
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG12	1	0.79
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG12	12	0.79
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD1	15	0.79
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB2	6	0.79
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB2	7	0.79
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB2	8	0.79
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG22	20	0.79
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	15	0.79
(1,1762)	1:93:A:GLU:H	1:93:A:GLU:HB3	20	0.79
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD11	2	0.79
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD13	5	0.79
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD11	9	0.79
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	13	0.79
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	3	0.79
(1,1601)	1:134:A:THR:HG22	1:165:A:MET:HG2	12	0.79
(1,1593)	1:58:A:ILE:HD13	1:71:A:VAL:HA	14	0.79
(1,1569)	1:37:A:ILE:HG22	1:58:A:ILE:HG12	2	0.79
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	15	0.79
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	18	0.79
(1,1537)	1:91:A:LEU:HD21	1:96:A:PHE:HB2	14	0.79
(1,1532)	1:177:A:VAL:HG12	1:178:A:LYS:HG2	15	0.79
(1,1532)	1:177:A:VAL:HG11	1:178:A:LYS:HG2	16	0.79
(1,1513)	1:157:A:ILE:HD11	1:139:A:VAL:HB	7	0.79
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB1	12	0.79
(1,1390)	1:105:A:LEU:HD21	1:29:A:ILE:HG21	8	0.79
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD11	8	0.79
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG21	19	0.79
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG12	15	0.79
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	5	0.79
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD12	20	0.79
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD13	14	0.79
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	15	0.79
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	16	0.79
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	17	0.79
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	4	0.79
(1,830)	1:72:A:VAL:HG22	1:57:A:LYS:HE3	2	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,830)	1:72:A:VAL:HG23	1:57:A:LYS:HE3	8	0.79
(1,818)	1:130:A:LEU:HD11	1:130:A:LEU:HB2	9	0.79
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG21	12	0.79
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	1	0.79
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	2	0.79
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	4	0.79
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	5	0.79
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	6	0.79
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	7	0.79
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	12	0.79
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG21	14	0.79
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD13	9	0.79
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	8	0.79
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	4	0.79
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	8	0.79
(1,310)	1:145:A:THR:H	1:145:A:THR:HG22	6	0.79
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	11	0.79
(1,248)	1:37:A:ILE:HD13	1:37:A:ILE:HB	14	0.79
(1,248)	1:37:A:ILE:HD11	1:37:A:ILE:HB	19	0.79
(1,244)	1:29:A:ILE:HD11	1:29:A:ILE:HG22	7	0.79
(1,2025)	1:90:A:LYS:H	1:90:A:LYS:HG2	1	0.78
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG12	15	0.78
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG11	19	0.78
(1,1935)	1:66:A:SER:H	1:63:A:THR:HG22	17	0.78
(1,1899)	1:83:A:ALA:H	1:73:A:ILE:HD12	13	0.78
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB1	3	0.78
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB2	6	0.78
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG23	11	0.78
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	9	0.78
(1,1762)	1:93:A:GLU:H	1:93:A:GLU:HB3	14	0.78
(1,1601)	1:134:A:THR:HG23	1:165:A:MET:HG2	17	0.78
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	5	0.78
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	7	0.78
(1,1549)	1:118:A:ARG:HB2	1:118:A:ARG:HD3	19	0.78
(1,1513)	1:157:A:ILE:HD13	1:139:A:VAL:HB	5	0.78
(1,1513)	1:157:A:ILE:HD12	1:139:A:VAL:HB	10	0.78
(1,1441)	1:154:A:VAL:HG23	1:140:A:VAL:HA	11	0.78
(1,1377)	1:73:A:ILE:HG21	1:73:A:ILE:HA	8	0.78
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG12	12	0.78
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG13	18	0.78
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD12	10	0.78
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD13	10	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD13	5	0.78
(1,1146)	1:174:A:LEU:HD22	1:111:A:VAL:HA	19	0.78
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD11	9	0.78
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	19	0.78
(1,1053)	1:108:A:HIS:HD2	1:106:A:GLU:HG2	15	0.78
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	2	0.78
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	1	0.78
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	2	0.78
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	3	0.78
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	4	0.78
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	5	0.78
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	6	0.78
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	9	0.78
(1,818)	1:130:A:LEU:HD13	1:130:A:LEU:HB2	10	0.78
(1,814)	1:58:A:ILE:HG12	1:58:A:ILE:HG21	16	0.78
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG23	20	0.78
(1,775)	1:113:A:ALA:HB1	1:152:A:VAL:HG13	10	0.78
(1,698)	1:25:A:VAL:HG13	1:107:A:THR:HB	13	0.78
(1,698)	1:25:A:VAL:HG12	1:107:A:THR:HB	15	0.78
(1,698)	1:25:A:VAL:HG12	1:107:A:THR:HB	17	0.78
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG23	20	0.78
(1,526)	1:17:A:PHE:HD1	1:17:A:PHE:HB2	3	0.78
(1,526)	1:17:A:PHE:HD1	1:17:A:PHE:HB2	15	0.78
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	9	0.78
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	15	0.78
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	16	0.78
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	18	0.78
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	19	0.78
(1,392)	1:74:A:THR:H	1:73:A:ILE:HD12	13	0.78
(1,392)	1:74:A:THR:H	1:73:A:ILE:HD13	16	0.78
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	1	0.78
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	3	0.78
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG22	8	0.78
(1,310)	1:145:A:THR:H	1:145:A:THR:HG23	2	0.78
(1,300)	1:74:A:THR:H	1:55:A:SER:HB2	19	0.78
(1,248)	1:37:A:ILE:HD12	1:37:A:ILE:HB	20	0.78
(1,221)	1:104:A:LYS:HE2	1:104:A:LYS:HG3	3	0.78
(1,114)	1:52:A:ALA:HA	1:82:A:LYS:HD2	4	0.78
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	1	0.77
(1,2174)	1:116:A:ALA:H	1:119:A:VAL:HG21	12	0.77
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG22	2	0.77
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG22	16	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG12	20	0.77
(1,1855)	1:174:A:LEU:H	1:175:A:ALA:HB2	9	0.77
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB2	4	0.77
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	1	0.77
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	6	0.77
(1,1762)	1:93:A:GLU:H	1:93:A:GLU:HB3	19	0.77
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	14	0.77
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	4	0.77
(1,1569)	1:37:A:ILE:HG23	1:58:A:ILE:HG12	7	0.77
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG23	20	0.77
(1,1513)	1:157:A:ILE:HD12	1:139:A:VAL:HB	1	0.77
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	10	0.77
(1,1377)	1:73:A:ILE:HG23	1:73:A:ILE:HA	5	0.77
(1,1307)	1:107:A:THR:HG21	1:27:A:VAL:H	11	0.77
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD13	4	0.77
(1,1281)	1:29:A:ILE:HD13	1:34:A:VAL:HA	12	0.77
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	13	0.77
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	14	0.77
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	20	0.77
(1,1146)	1:174:A:LEU:HD23	1:111:A:VAL:HA	11	0.77
(1,1146)	1:174:A:LEU:HD22	1:111:A:VAL:HA	12	0.77
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD12	11	0.77
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD13	19	0.77
(1,834)	1:45:A:ILE:HD13	1:57:A:LYS:HA	19	0.77
(1,797)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	11	0.77
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG22	19	0.77
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG12	16	0.77
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG23	15	0.77
(1,677)	1:94:A:GLU:HG2	1:90:A:LYS:HG2	1	0.77
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG22	16	0.77
(1,526)	1:17:A:PHE:HD1	1:17:A:PHE:HB2	7	0.77
(1,526)	1:17:A:PHE:HD1	1:17:A:PHE:HB2	16	0.77
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD12	7	0.77
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD11	8	0.77
(1,408)	1:120:A:ILE:HG22	1:117:A:GLY:HA2	15	0.77
(1,398)	1:100:A:LYS:H	1:99:A:PRO:HB3	10	0.77
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	6	0.77
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG21	17	0.77
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG22	19	0.77
(1,280)	1:168:A:ARG:HD2	1:168:A:ARG:HB2	19	0.77
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	16	0.77
(1,248)	1:37:A:ILE:HD12	1:37:A:ILE:HB	12	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,241)	1:152:A:VAL:HG22	1:116:A:ALA:HA	16	0.77
(1,192)	1:50:A:ARG:HG2	1:50:A:ARG:HA	1	0.77
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG23	11	0.77
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG23	16	0.77
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG22	18	0.77
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	10	0.76
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	8	0.76
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	15	0.76
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD13	9	0.76
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD12	11	0.76
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	10	0.76
(1,2072)	1:177:A:VAL:H	1:175:A:ALA:HB1	7	0.76
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG23	3	0.76
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG23	5	0.76
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG23	20	0.76
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	12	0.76
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD13	3	0.76
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD11	6	0.76
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	12	0.76
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	19	0.76
(1,1556)	1:87:A:ILE:HG21	1:87:A:ILE:HG13	13	0.76
(1,1537)	1:91:A:LEU:HD23	1:96:A:PHE:HB2	11	0.76
(1,1513)	1:157:A:ILE:HD13	1:139:A:VAL:HB	13	0.76
(1,1513)	1:157:A:ILE:HD11	1:139:A:VAL:HB	15	0.76
(1,1513)	1:157:A:ILE:HD13	1:139:A:VAL:HB	18	0.76
(1,1390)	1:105:A:LEU:HD21	1:29:A:ILE:HG21	6	0.76
(1,1390)	1:105:A:LEU:HD22	1:29:A:ILE:HG21	16	0.76
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD11	9	0.76
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	15	0.76
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	17	0.76
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	4	0.76
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	5	0.76
(1,1146)	1:174:A:LEU:HD22	1:111:A:VAL:HA	10	0.76
(1,1146)	1:174:A:LEU:HD21	1:111:A:VAL:HA	16	0.76
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD12	7	0.76
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	6	0.76
(1,826)	1:91:A:LEU:HD23	1:105:A:LEU:HD12	5	0.76
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG22	13	0.76
(1,721)	1:168:A:ARG:HA	1:168:A:ARG:HD2	13	0.76
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG22	18	0.76
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	9	0.76
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	11	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	2	0.76
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	11	0.76
(1,526)	1:17:A:PHE:HD1	1:17:A:PHE:HB2	8	0.76
(1,526)	1:17:A:PHE:HD1	1:17:A:PHE:HB2	17	0.76
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG12	16	0.76
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	13	0.76
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	7	0.76
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	16	0.76
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	7	0.76
(1,241)	1:152:A:VAL:HG21	1:116:A:ALA:HA	18	0.76
(1,192)	1:50:A:ARG:HG2	1:50:A:ARG:HA	19	0.76
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG23	12	0.76
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG22	14	0.76
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG23	15	0.76
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG23	20	0.76
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	2	0.75
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	6	0.75
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	7	0.75
(1,2059)	1:179:A:GLN:H	1:179:A:GLN:HG2	18	0.75
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG23	4	0.75
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG22	10	0.75
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	19	0.75
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG11	12	0.75
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG13	15	0.75
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB2	1	0.75
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB2	5	0.75
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB3	7	0.75
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB2	8	0.75
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	7	0.75
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD13	18	0.75
(1,1762)	1:93:A:GLU:H	1:93:A:GLU:HB3	3	0.75
(1,1762)	1:93:A:GLU:H	1:93:A:GLU:HB3	6	0.75
(1,1762)	1:93:A:GLU:H	1:93:A:GLU:HB3	9	0.75
(1,1678)	1:24:A:THR:H	1:23:A:GLU:HB2	5	0.75
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	1	0.75
(1,1556)	1:87:A:ILE:HG22	1:87:A:ILE:HG13	14	0.75
(1,1532)	1:177:A:VAL:HG11	1:178:A:LYS:HG2	4	0.75
(1,1396)	1:91:A:LEU:HD23	1:30:A:PRO:HD3	17	0.75
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG21	19	0.75
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD11	1	0.75
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	11	0.75
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG13	16	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1307)	1:107:A:THR:HG22	1:27:A:VAL:H	12	0.75
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD12	4	0.75
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	12	0.75
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	16	0.75
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	19	0.75
(1,1243)	1:120:A:ILE:HD12	1:120:A:ILE:HB	4	0.75
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	3	0.75
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	9	0.75
(1,1146)	1:174:A:LEU:HD21	1:111:A:VAL:HA	17	0.75
(1,1146)	1:174:A:LEU:HD23	1:111:A:VAL:HA	18	0.75
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD13	20	0.75
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	13	0.75
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD12	12	0.75
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	5	0.75
(1,925)	1:107:A:THR:HA	1:27:A:VAL:HG11	18	0.75
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	5	0.75
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	16	0.75
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG23	11	0.75
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG21	17	0.75
(1,676)	1:90:A:LYS:HG2	1:90:A:LYS:HE2	11	0.75
(1,676)	1:90:A:LYS:HG2	1:90:A:LYS:HE2	16	0.75
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB3	12	0.75
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	3	0.75
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	15	0.75
(1,541)	1:73:A:ILE:HA	1:73:A:ILE:HD13	7	0.75
(1,526)	1:17:A:PHE:HD1	1:17:A:PHE:HB2	13	0.75
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG12	15	0.75
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG21	16	0.75
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB3	18	0.75
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	3	0.75
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	5	0.75
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	8	0.75
(1,280)	1:168:A:ARG:HD2	1:168:A:ARG:HB2	16	0.75
(1,248)	1:37:A:ILE:HD11	1:37:A:ILE:HB	13	0.75
(1,241)	1:152:A:VAL:HG22	1:116:A:ALA:HA	11	0.75
(1,241)	1:152:A:VAL:HG21	1:116:A:ALA:HA	14	0.75
(1,241)	1:152:A:VAL:HG21	1:116:A:ALA:HA	19	0.75
(1,114)	1:52:A:ALA:HA	1:82:A:LYS:HD2	5	0.75
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG23	8	0.75
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG21	9	0.75
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG23	13	0.75
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG23	17	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG22	19	0.75
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	16	0.74
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	8	0.74
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	3	0.74
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	5	0.74
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	9	0.74
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	10	0.74
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	20	0.74
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG13	17	0.74
(1,1935)	1:66:A:SER:H	1:63:A:THR:HG23	11	0.74
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG13	18	0.74
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB2	2	0.74
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB3	10	0.74
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG22	5	0.74
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD21	13	0.74
(1,1532)	1:177:A:VAL:HG12	1:178:A:LYS:HG2	2	0.74
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD11	5	0.74
(1,1365)	1:48:A:LEU:HD22	1:86:A:ARG:HB3	8	0.74
(1,1345)	1:110:A:ARG:HD2	1:110:A:ARG:HB3	12	0.74
(1,1307)	1:107:A:THR:HG23	1:27:A:VAL:H	20	0.74
(1,1300)	1:105:A:LEU:HD12	1:29:A:ILE:HG22	17	0.74
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD11	18	0.74
(1,1281)	1:29:A:ILE:HD12	1:34:A:VAL:HA	18	0.74
(1,1243)	1:120:A:ILE:HD12	1:120:A:ILE:HB	6	0.74
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD12	13	0.74
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	1	0.74
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	1	0.74
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	2	0.74
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	10	0.74
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	11	0.74
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	12	0.74
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	13	0.74
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	17	0.74
(1,1146)	1:174:A:LEU:HD22	1:111:A:VAL:HA	7	0.74
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	1	0.74
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	3	0.74
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	8	0.74
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	2	0.74
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	10	0.74
(1,925)	1:107:A:THR:HA	1:27:A:VAL:HG12	19	0.74
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	7	0.74
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	11	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	12	0.74
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	13	0.74
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	14	0.74
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	17	0.74
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG12	12	0.74
(1,676)	1:90:A:LYS:HG2	1:90:A:LYS:HE2	14	0.74
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	14	0.74
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB2	17	0.74
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	6	0.74
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG12	20	0.74
(1,434)	1:100:A:LYS:H	1:100:A:LYS:HB2	18	0.74
(1,326)	1:111:A:VAL:HG21	1:116:A:ALA:HB2	2	0.74
(1,326)	1:111:A:VAL:HG21	1:116:A:ALA:HB2	4	0.74
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB2	4	0.74
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB3	15	0.74
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	1	0.74
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	2	0.74
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	6	0.74
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	10	0.74
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG22	2	0.74
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG22	4	0.74
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG21	5	0.74
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG23	6	0.74
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG23	7	0.74
(1,2252)	1:65:A:ASP:H	1:63:A:THR:HG21	20	0.73
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	1	0.73
(1,2213)	1:32:A:GLN:H	1:32:A:GLN:HG3	4	0.73
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	14	0.73
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	1	0.73
(1,2059)	1:179:A:GLN:H	1:179:A:GLN:HG2	14	0.73
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG11	13	0.73
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD13	2	0.73
(1,1848)	1:33:A:ALA:H	1:31:A:ALA:HB2	18	0.73
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG22	7	0.73
(1,1795)	1:170:A:ILE:H	1:170:A:ILE:HG23	8	0.73
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD22	4	0.73
(1,1762)	1:93:A:GLU:H	1:93:A:GLU:HB3	2	0.73
(1,1678)	1:24:A:THR:H	1:23:A:GLU:HB2	8	0.73
(1,1678)	1:24:A:THR:H	1:23:A:GLU:HB2	14	0.73
(1,1539)	1:90:A:LYS:HG2	1:91:A:LEU:HD22	10	0.73
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG22	11	0.73
(1,1377)	1:73:A:ILE:HG21	1:73:A:ILE:HA	6	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1349)	1:34:A:VAL:HG12	1:58:A:ILE:HG21	8	0.73
(1,1281)	1:29:A:ILE:HD13	1:34:A:VAL:HA	17	0.73
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	15	0.73
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	18	0.73
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	19	0.73
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	20	0.73
(1,1146)	1:174:A:LEU:HD22	1:111:A:VAL:HA	2	0.73
(1,1146)	1:174:A:LEU:HD23	1:111:A:VAL:HA	13	0.73
(1,1146)	1:174:A:LEU:HD23	1:111:A:VAL:HA	15	0.73
(1,1146)	1:174:A:LEU:HD22	1:111:A:VAL:HA	20	0.73
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD12	4	0.73
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD11	12	0.73
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD12	13	0.73
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD22	16	0.73
(1,1105)	1:56:A:ILE:H	1:56:A:ILE:HG12	7	0.73
(1,1105)	1:56:A:ILE:H	1:56:A:ILE:HG12	15	0.73
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	14	0.73
(1,1064)	1:97:A:PHE:HE1	1:91:A:LEU:HD11	17	0.73
(1,1053)	1:108:A:HIS:HD2	1:106:A:GLU:HG2	14	0.73
(1,962)	1:178:A:LYS:HE2	1:175:A:ALA:HA	16	0.73
(1,942)	1:153:A:ILE:HG22	1:108:A:HIS:HD2	11	0.73
(1,918)	1:102:A:GLU:HA	1:102:A:GLU:HG2	12	0.73
(1,918)	1:102:A:GLU:HA	1:102:A:GLU:HG2	18	0.73
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	4	0.73
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	19	0.73
(1,809)	1:73:A:ILE:HD12	1:80:A:GLN:HA	14	0.73
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG23	20	0.73
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG11	3	0.73
(1,526)	1:17:A:PHE:HD1	1:17:A:PHE:HB2	1	0.73
(1,434)	1:100:A:LYS:H	1:100:A:LYS:HB2	4	0.73
(1,392)	1:74:A:THR:H	1:73:A:ILE:HD12	14	0.73
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	1	0.73
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	3	0.73
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	4	0.73
(1,300)	1:74:A:THR:H	1:55:A:SER:HB2	20	0.73
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	4	0.73
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	9	0.73
(1,266)	1:47:A:GLN:HG3	1:47:A:GLN:HB2	1	0.73
(1,266)	1:47:A:GLN:HG3	1:47:A:GLN:HB2	4	0.73
(1,266)	1:47:A:GLN:HG3	1:47:A:GLN:HB2	5	0.73
(1,266)	1:47:A:GLN:HG3	1:47:A:GLN:HB2	8	0.73
(1,266)	1:47:A:GLN:HG3	1:47:A:GLN:HB2	10	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,266)	1:47:A:GLN:HG3	1:47:A:GLN:HB2	13	0.73
(1,244)	1:29:A:ILE:HD11	1:29:A:ILE:HG22	6	0.73
(1,241)	1:152:A:VAL:HG21	1:116:A:ALA:HA	2	0.73
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG22	1	0.73
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG21	10	0.73
(1,2252)	1:65:A:ASP:H	1:63:A:THR:HG23	18	0.72
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	4	0.72
(1,2059)	1:179:A:GLN:H	1:179:A:GLN:HG2	11	0.72
(1,2059)	1:179:A:GLN:H	1:179:A:GLN:HG2	15	0.72
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG23	12	0.72
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD2	2	0.72
(1,1747)	1:63:A:THR:H	1:62:A:GLU:HB2	5	0.72
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD11	16	0.72
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD11	4	0.72
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG21	17	0.72
(1,1377)	1:73:A:ILE:HG22	1:73:A:ILE:HA	10	0.72
(1,1377)	1:73:A:ILE:HG23	1:73:A:ILE:HA	11	0.72
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD11	2	0.72
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD13	2	0.72
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD12	13	0.72
(1,1281)	1:29:A:ILE:HD13	1:34:A:VAL:HA	11	0.72
(1,1243)	1:120:A:ILE:HD12	1:120:A:ILE:HB	8	0.72
(1,1178)	1:30:A:PRO:HD2	1:29:A:ILE:HA	20	0.72
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	7	0.72
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD12	1	0.72
(1,1105)	1:56:A:ILE:H	1:56:A:ILE:HG12	12	0.72
(1,1105)	1:56:A:ILE:H	1:56:A:ILE:HG12	13	0.72
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	18	0.72
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	14	0.72
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	16	0.72
(1,1009)	1:160:A:PHE:HA	1:163:A:SER:HB2	12	0.72
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	3	0.72
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	5	0.72
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	6	0.72
(1,918)	1:102:A:GLU:HA	1:102:A:GLU:HG2	17	0.72
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	20	0.72
(1,891)	1:45:A:ILE:HG22	1:45:A:ILE:HG13	18	0.72
(1,698)	1:25:A:VAL:HG12	1:107:A:THR:HB	14	0.72
(1,682)	1:153:A:ILE:HG13	1:153:A:ILE:HG22	16	0.72
(1,673)	1:104:A:LYS:HG2	1:104:A:LYS:HE2	2	0.72
(1,673)	1:104:A:LYS:HG2	1:104:A:LYS:HE2	6	0.72
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG21	14	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG21	19	0.72
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB3	16	0.72
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG12	19	0.72
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG13	13	0.72
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG11	18	0.72
(1,408)	1:120:A:ILE:HG22	1:117:A:GLY:HA2	3	0.72
(1,392)	1:74:A:THR:H	1:73:A:ILE:HD13	15	0.72
(1,392)	1:74:A:THR:H	1:73:A:ILE:HD11	18	0.72
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	10	0.72
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	11	0.72
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	15	0.72
(1,326)	1:111:A:VAL:HG21	1:116:A:ALA:HB2	5	0.72
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	14	0.72
(1,266)	1:47:A:GLN:HG3	1:47:A:GLN:HB2	6	0.72
(1,266)	1:47:A:GLN:HG3	1:47:A:GLN:HB2	9	0.72
(1,266)	1:47:A:GLN:HG3	1:47:A:GLN:HB2	14	0.72
(1,266)	1:47:A:GLN:HG3	1:47:A:GLN:HB2	16	0.72
(1,266)	1:47:A:GLN:HG3	1:47:A:GLN:HB2	18	0.72
(1,266)	1:47:A:GLN:HG3	1:47:A:GLN:HB2	19	0.72
(1,248)	1:37:A:ILE:HD13	1:37:A:ILE:HB	17	0.72
(1,241)	1:152:A:VAL:HG23	1:116:A:ALA:HA	9	0.72
(1,241)	1:152:A:VAL:HG22	1:116:A:ALA:HA	12	0.72
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	3	0.72
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	6	0.72
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	8	0.72
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	19	0.72
(1,61)	1:152:A:VAL:HA	1:152:A:VAL:HG22	3	0.72
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	16	0.71
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	3	0.71
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	14	0.71
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	16	0.71
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	20	0.71
(1,2059)	1:179:A:GLN:H	1:179:A:GLN:HG2	16	0.71
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG23	1	0.71
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG22	13	0.71
(1,2025)	1:90:A:LYS:H	1:90:A:LYS:HG2	2	0.71
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG13	14	0.71
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD21	20	0.71
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG22	7	0.71
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	11	0.71
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	12	0.71
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	13	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	17	0.71
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	18	0.71
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	19	0.71
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD12	12	0.71
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	1	0.71
(1,1597)	1:57:A:LYS:HE2	1:72:A:VAL:HG13	1	0.71
(1,1597)	1:57:A:LYS:HE2	1:72:A:VAL:HG12	3	0.71
(1,1597)	1:57:A:LYS:HE2	1:72:A:VAL:HG11	4	0.71
(1,1556)	1:87:A:ILE:HG21	1:87:A:ILE:HG13	20	0.71
(1,1436)	1:130:A:LEU:H	1:130:A:LEU:HD23	5	0.71
(1,1377)	1:73:A:ILE:HG22	1:73:A:ILE:HA	1	0.71
(1,1366)	1:48:A:LEU:HD22	1:86:A:ARG:HD3	4	0.71
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG21	17	0.71
(1,1301)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	16	0.71
(1,1243)	1:120:A:ILE:HD12	1:120:A:ILE:HB	5	0.71
(1,1243)	1:120:A:ILE:HD12	1:120:A:ILE:HB	14	0.71
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD12	8	0.71
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD23	3	0.71
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD23	14	0.71
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD22	17	0.71
(1,1105)	1:56:A:ILE:H	1:56:A:ILE:HG12	3	0.71
(1,1105)	1:56:A:ILE:H	1:56:A:ILE:HG12	9	0.71
(1,1105)	1:56:A:ILE:H	1:56:A:ILE:HG12	14	0.71
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	20	0.71
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	20	0.71
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	11	0.71
(1,1015)	1:170:A:ILE:HD13	1:130:A:LEU:HD11	11	0.71
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	7	0.71
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	7	0.71
(1,942)	1:153:A:ILE:HG22	1:108:A:HIS:HD2	3	0.71
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	19	0.71
(1,894)	1:54:A:ALA:HB2	1:56:A:ILE:HD12	19	0.71
(1,891)	1:45:A:ILE:HG22	1:45:A:ILE:HG13	14	0.71
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	9	0.71
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	14	0.71
(1,787)	1:22:A:GLN:HG2	1:74:A:THR:HG23	3	0.71
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	4	0.71
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG13	2	0.71
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG13	7	0.71
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD22	19	0.71
(1,526)	1:17:A:PHE:HD1	1:17:A:PHE:HB2	9	0.71
(1,409)	1:146:A:PRO:HB2	1:150:A:GLU:HA	20	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	19	0.71
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	12	0.71
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	13	0.71
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	14	0.71
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	17	0.71
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	18	0.71
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	19	0.71
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	3	0.71
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	5	0.71
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	6	0.71
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	8	0.71
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	9	0.71
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	10	0.71
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	11	0.71
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	13	0.71
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	14	0.71
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	15	0.71
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	16	0.71
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	17	0.71
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	18	0.71
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	19	0.71
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	18	0.71
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	20	0.71
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	1	0.71
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	4	0.71
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	5	0.71
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	7	0.71
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	9	0.71
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	10	0.71
(1,129)	1:103:A:VAL:HG22	1:103:A:VAL:HA	2	0.71
(1,129)	1:103:A:VAL:HG23	1:103:A:VAL:HA	6	0.71
(1,2252)	1:65:A:ASP:H	1:63:A:THR:HG21	13	0.7
(1,2239)	1:25:A:VAL:H	1:80:A:GLN:HB2	8	0.7
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	6	0.7
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	3	0.7
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	13	0.7
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG22	1	0.7
(1,2059)	1:179:A:GLN:H	1:179:A:GLN:HG2	17	0.7
(1,2059)	1:179:A:GLN:H	1:179:A:GLN:HG2	19	0.7
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG23	11	0.7
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG23	15	0.7
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	5	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	12	0.7
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	13	0.7
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	20	0.7
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD22	2	0.7
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD22	8	0.7
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD22	9	0.7
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	5	0.7
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	17	0.7
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	15	0.7
(1,1678)	1:24:A:THR:H	1:23:A:GLU:HB2	17	0.7
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	10	0.7
(1,1569)	1:37:A:ILE:HG23	1:58:A:ILE:HG12	20	0.7
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG11	17	0.7
(1,1556)	1:87:A:ILE:HG23	1:87:A:ILE:HG13	11	0.7
(1,1556)	1:87:A:ILE:HG23	1:87:A:ILE:HG13	19	0.7
(1,1555)	1:48:A:LEU:HD23	1:87:A:ILE:HG22	7	0.7
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG23	1	0.7
(1,1537)	1:91:A:LEU:HD22	1:96:A:PHE:HB2	20	0.7
(1,1532)	1:177:A:VAL:HG13	1:178:A:LYS:HG2	1	0.7
(1,1513)	1:157:A:ILE:HD11	1:139:A:VAL:HB	16	0.7
(1,1513)	1:157:A:ILE:HD12	1:139:A:VAL:HB	19	0.7
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG21	12	0.7
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG22	13	0.7
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG23	15	0.7
(1,1380)	1:58:A:ILE:HG12	1:38:A:ILE:HD12	11	0.7
(1,1346)	1:153:A:ILE:HG21	1:110:A:ARG:HD2	10	0.7
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD12	3	0.7
(1,1243)	1:120:A:ILE:HD13	1:120:A:ILE:HB	18	0.7
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	8	0.7
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	15	0.7
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD21	15	0.7
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD21	18	0.7
(1,1105)	1:56:A:ILE:H	1:56:A:ILE:HG12	17	0.7
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD12	18	0.7
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	15	0.7
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	8	0.7
(1,962)	1:178:A:LYS:HE2	1:175:A:ALA:HA	18	0.7
(1,932)	1:109:A:ILE:HD11	1:107:A:THR:HG23	1	0.7
(1,932)	1:109:A:ILE:HD12	1:107:A:THR:HG23	6	0.7
(1,833)	1:37:A:ILE:HD11	1:87:A:ILE:HA	11	0.7
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	11	0.7
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	19	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG11	14	0.7
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB3	11	0.7
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	4	0.7
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	17	0.7
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG11	3	0.7
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG13	9	0.7
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG11	14	0.7
(1,526)	1:17:A:PHE:HD1	1:17:A:PHE:HB2	11	0.7
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG11	11	0.7
(1,435)	1:100:A:LYS:H	1:100:A:LYS:HB3	3	0.7
(1,435)	1:100:A:LYS:H	1:100:A:LYS:HB3	8	0.7
(1,434)	1:100:A:LYS:H	1:100:A:LYS:HB2	9	0.7
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	20	0.7
(1,379)	1:57:A:LYS:HA	1:57:A:LYS:HG3	20	0.7
(1,370)	1:154:A:VAL:HG21	1:119:A:VAL:HG23	6	0.7
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB3	16	0.7
(1,306)	1:112:A:PRO:HA	1:113:A:ALA:HB3	12	0.7
(1,192)	1:50:A:ARG:HG2	1:50:A:ARG:HA	17	0.7
(1,162)	1:64:A:PRO:HG2	1:64:A:PRO:HA	2	0.7
(1,129)	1:103:A:VAL:HG22	1:103:A:VAL:HA	3	0.7
(1,129)	1:103:A:VAL:HG21	1:103:A:VAL:HA	7	0.7
(1,129)	1:103:A:VAL:HG22	1:103:A:VAL:HA	8	0.7
(1,2252)	1:65:A:ASP:H	1:63:A:THR:HG23	12	0.69
(1,2252)	1:65:A:ASP:H	1:63:A:THR:HG21	14	0.69
(1,2163)	1:102:A:GLU:H	1:102:A:GLU:HB3	12	0.69
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	6	0.69
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD12	4	0.69
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	17	0.69
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	1	0.69
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	3	0.69
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	4	0.69
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	5	0.69
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	7	0.69
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	8	0.69
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	9	0.69
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	10	0.69
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	11	0.69
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	14	0.69
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	15	0.69
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	16	0.69
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	17	0.69
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	18	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	20	0.69
(1,2075)	1:143:A:ASP:H	1:142:A:ARG:HA	1	0.69
(1,2075)	1:143:A:ASP:H	1:142:A:ARG:HA	7	0.69
(1,2075)	1:143:A:ASP:H	1:142:A:ARG:HA	8	0.69
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG13	1	0.69
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB2	12	0.69
(1,1919)	1:55:A:SER:H	1:73:A:ILE:HD11	18	0.69
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD21	3	0.69
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD22	6	0.69
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	11	0.69
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	10	0.69
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	14	0.69
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	20	0.69
(1,1678)	1:24:A:THR:H	1:23:A:GLU:HB2	6	0.69
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	12	0.69
(1,1569)	1:37:A:ILE:HG21	1:58:A:ILE:HG12	12	0.69
(1,1555)	1:48:A:LEU:HD23	1:87:A:ILE:HG21	3	0.69
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG22	6	0.69
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG23	13	0.69
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	11	0.69
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	13	0.69
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	20	0.69
(1,1513)	1:157:A:ILE:HD13	1:139:A:VAL:HB	2	0.69
(1,1441)	1:154:A:VAL:HG23	1:140:A:VAL:HA	20	0.69
(1,1377)	1:73:A:ILE:HG23	1:73:A:ILE:HA	2	0.69
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG13	14	0.69
(1,1307)	1:107:A:THR:HG21	1:27:A:VAL:H	17	0.69
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD12	17	0.69
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD13	20	0.69
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	3	0.69
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	6	0.69
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	20	0.69
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD13	15	0.69
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD23	6	0.69
(1,971)	1:52:A:ALA:HB2	1:56:A:ILE:HD11	9	0.69
(1,942)	1:153:A:ILE:HG22	1:108:A:HIS:HD2	4	0.69
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	2	0.69
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	3	0.69
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	18	0.69
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	20	0.69
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG23	11	0.69
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	5	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG11	4	0.69
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG12	5	0.69
(1,564)	1:71:A:VAL:HA	1:71:A:VAL:HG13	18	0.69
(1,434)	1:100:A:LYS:H	1:100:A:LYS:HB2	5	0.69
(1,434)	1:100:A:LYS:H	1:100:A:LYS:HB2	7	0.69
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	2	0.69
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	9	0.69
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	11	0.69
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	17	0.69
(1,307)	1:91:A:LEU:HG	1:105:A:LEU:HG	19	0.69
(1,278)	1:100:A:LYS:HE2	1:100:A:LYS:HG2	9	0.69
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	15	0.69
(1,241)	1:152:A:VAL:HG23	1:116:A:ALA:HA	10	0.69
(1,192)	1:50:A:ARG:HG2	1:50:A:ARG:HA	13	0.69
(1,129)	1:103:A:VAL:HG22	1:103:A:VAL:HA	5	0.69
(1,129)	1:103:A:VAL:HG23	1:103:A:VAL:HA	10	0.69
(1,2252)	1:65:A:ASP:H	1:63:A:THR:HG23	15	0.68
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG12	11	0.68
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	2	0.68
(1,2075)	1:143:A:ASP:H	1:142:A:ARG:HA	17	0.68
(1,2059)	1:179:A:GLN:H	1:179:A:GLN:HG2	13	0.68
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG21	7	0.68
(1,2025)	1:90:A:LYS:H	1:90:A:LYS:HG2	5	0.68
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG21	18	0.68
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG12	5	0.68
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB2	14	0.68
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB2	20	0.68
(1,1899)	1:83:A:ALA:H	1:73:A:ILE:HD12	14	0.68
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	11	0.68
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	11	0.68
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD21	5	0.68
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	13	0.68
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	5	0.68
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	15	0.68
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	19	0.68
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	20	0.68
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD12	13	0.68
(1,1578)	1:30:A:PRO:HD2	1:29:A:ILE:HG22	20	0.68
(1,1569)	1:37:A:ILE:HG21	1:58:A:ILE:HG12	17	0.68
(1,1556)	1:87:A:ILE:HG23	1:87:A:ILE:HG13	15	0.68
(1,1537)	1:91:A:LEU:HD21	1:96:A:PHE:HB2	16	0.68
(1,1532)	1:177:A:VAL:HG11	1:178:A:LYS:HG2	10	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1436)	1:130:A:LEU:H	1:130:A:LEU:HD21	1	0.68
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG23	18	0.68
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG13	20	0.68
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD12	19	0.68
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD23	5	0.68
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	13	0.68
(1,1071)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	16	0.68
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	19	0.68
(1,1016)	1:126:A:THR:HG23	1:173:A:ILE:HD12	20	0.68
(1,804)	1:50:A:ARG:HD2	1:50:A:ARG:HG3	4	0.68
(1,804)	1:50:A:ARG:HD2	1:50:A:ARG:HG3	6	0.68
(1,804)	1:50:A:ARG:HD2	1:50:A:ARG:HG3	8	0.68
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG11	15	0.68
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG13	17	0.68
(1,745)	1:145:A:THR:HG23	1:146:A:PRO:HD3	18	0.68
(1,684)	1:25:A:VAL:HG12	1:107:A:THR:HG23	16	0.68
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG12	1	0.68
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG12	7	0.68
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG12	10	0.68
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG11	16	0.68
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG12	18	0.68
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG13	9	0.68
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	20	0.68
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG13	12	0.68
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG11	17	0.68
(1,434)	1:100:A:LYS:H	1:100:A:LYS:HB2	19	0.68
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	4	0.68
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	7	0.68
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	13	0.68
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	16	0.68
(1,326)	1:111:A:VAL:HG23	1:116:A:ALA:HB1	3	0.68
(1,326)	1:111:A:VAL:HG22	1:116:A:ALA:HB1	9	0.68
(1,326)	1:111:A:VAL:HG21	1:116:A:ALA:HB3	10	0.68
(1,278)	1:100:A:LYS:HE2	1:100:A:LYS:HG2	4	0.68
(1,278)	1:100:A:LYS:HE2	1:100:A:LYS:HG2	11	0.68
(1,241)	1:152:A:VAL:HG21	1:116:A:ALA:HA	4	0.68
(1,192)	1:50:A:ARG:HG2	1:50:A:ARG:HA	2	0.68
(1,192)	1:50:A:ARG:HG2	1:50:A:ARG:HA	3	0.68
(1,192)	1:50:A:ARG:HG2	1:50:A:ARG:HA	18	0.68
(1,192)	1:50:A:ARG:HG2	1:50:A:ARG:HA	20	0.68
(1,2252)	1:65:A:ASP:H	1:63:A:THR:HG23	19	0.67
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	12	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG23	16	0.67
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG13	17	0.67
(1,2163)	1:102:A:GLU:H	1:102:A:GLU:HB3	15	0.67
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD12	1	0.67
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	19	0.67
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG23	3	0.67
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG22	13	0.67
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	18	0.67
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG23	14	0.67
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG21	19	0.67
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB3	1	0.67
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB3	16	0.67
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	4	0.67
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	14	0.67
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	17	0.67
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD21	7	0.67
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD22	10	0.67
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD23	15	0.67
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	14	0.67
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	6	0.67
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	5	0.67
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	8	0.67
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	11	0.67
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	15	0.67
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	16	0.67
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	17	0.67
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	15	0.67
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	9	0.67
(1,1601)	1:134:A:THR:HG22	1:165:A:MET:HG2	9	0.67
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	7	0.67
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD13	19	0.67
(1,1545)	1:166:A:ALA:HB1	1:130:A:LEU:HD22	14	0.67
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	7	0.67
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	8	0.67
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	10	0.67
(1,1513)	1:157:A:ILE:HD11	1:139:A:VAL:HB	9	0.67
(1,1436)	1:130:A:LEU:H	1:130:A:LEU:HD21	12	0.67
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG21	20	0.67
(1,1377)	1:73:A:ILE:HG22	1:73:A:ILE:HA	3	0.67
(1,1377)	1:73:A:ILE:HG23	1:73:A:ILE:HA	4	0.67
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	6	0.67
(1,1349)	1:34:A:VAL:HG11	1:58:A:ILE:HG23	3	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1346)	1:153:A:ILE:HG23	1:110:A:ARG:HD2	11	0.67
(1,1346)	1:153:A:ILE:HG23	1:110:A:ARG:HD2	20	0.67
(1,1335)	1:157:A:ILE:HD13	1:137:A:GLU:H	16	0.67
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG13	13	0.67
(1,1307)	1:107:A:THR:HG23	1:27:A:VAL:H	8	0.67
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD12	8	0.67
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD13	12	0.67
(1,1284)	1:29:A:ILE:HD11	1:30:A:PRO:HD2	17	0.67
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD13	15	0.67
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	3	0.67
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD21	1	0.67
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD21	4	0.67
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD21	11	0.67
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	1	0.67
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	2	0.67
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	3	0.67
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	5	0.67
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	6	0.67
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	7	0.67
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	8	0.67
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	9	0.67
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	10	0.67
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	13	0.67
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	16	0.67
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	17	0.67
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	18	0.67
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	19	0.67
(1,745)	1:145:A:THR:HG23	1:146:A:PRO:HD3	15	0.67
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	16	0.67
(1,525)	1:105:A:LEU:HD13	1:97:A:PHE:HD1	18	0.67
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG21	19	0.67
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	3	0.67
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	16	0.67
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG12	10	0.67
(1,392)	1:74:A:THR:H	1:73:A:ILE:HD13	20	0.67
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	5	0.67
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	6	0.67
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	12	0.67
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG22	10	0.67
(1,307)	1:91:A:LEU:HG	1:105:A:LEU:HG	11	0.67
(1,300)	1:74:A:THR:H	1:55:A:SER:HB2	18	0.67
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	9	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:100:A:LYS:HE2	1:100:A:LYS:HG2	20	0.67
(1,241)	1:152:A:VAL:HG22	1:116:A:ALA:HA	15	0.67
(1,241)	1:152:A:VAL:HG22	1:116:A:ALA:HA	20	0.67
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	11	0.67
(1,129)	1:103:A:VAL:HG22	1:103:A:VAL:HA	4	0.67
(1,94)	1:82:A:LYS:HA	1:82:A:LYS:HD2	17	0.67
(1,41)	1:51:A:PHE:HE1	1:86:A:ARG:HD2	8	0.67
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD11	6	0.66
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD12	8	0.66
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG21	12	0.66
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	15	0.66
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG22	17	0.66
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG23	18	0.66
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG13	14	0.66
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD13	14	0.66
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	2	0.66
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	9	0.66
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	11	0.66
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD13	20	0.66
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	2	0.66
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	4	0.66
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	6	0.66
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	10	0.66
(1,1603)	1:134:A:THR:HG22	1:165:A:MET:HG3	14	0.66
(1,1597)	1:57:A:LYS:HE2	1:72:A:VAL:HG13	5	0.66
(1,1597)	1:57:A:LYS:HE2	1:72:A:VAL:HG13	10	0.66
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	8	0.66
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	9	0.66
(1,1569)	1:37:A:ILE:HG22	1:58:A:ILE:HG12	13	0.66
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG11	15	0.66
(1,1556)	1:87:A:ILE:HG23	1:87:A:ILE:HG13	9	0.66
(1,1556)	1:87:A:ILE:HG21	1:87:A:ILE:HG13	17	0.66
(1,1532)	1:177:A:VAL:HG12	1:178:A:LYS:HG2	6	0.66
(1,1532)	1:177:A:VAL:HG13	1:178:A:LYS:HG2	8	0.66
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	14	0.66
(1,1377)	1:73:A:ILE:HG23	1:73:A:ILE:HA	9	0.66
(1,1346)	1:153:A:ILE:HG21	1:110:A:ARG:HD2	19	0.66
(1,1307)	1:107:A:THR:HG22	1:27:A:VAL:H	5	0.66
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD13	14	0.66
(1,1243)	1:120:A:ILE:HD11	1:120:A:ILE:HB	13	0.66
(1,1243)	1:120:A:ILE:HD11	1:120:A:ILE:HB	15	0.66
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	14	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD23	8	0.66
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD21	13	0.66
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD23	19	0.66
(1,1089)	1:59:A:ALA:H	1:58:A:ILE:HB	15	0.66
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	10	0.66
(1,1045)	1:97:A:PHE:HD1	1:97:A:PHE:HB3	10	0.66
(1,1006)	1:83:A:ALA:HB2	1:73:A:ILE:HB	16	0.66
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	13	0.66
(1,932)	1:109:A:ILE:HD13	1:107:A:THR:HG21	2	0.66
(1,874)	1:104:A:LYS:HE2	1:104:A:LYS:HB3	3	0.66
(1,856)	1:56:A:ILE:HD13	1:49:A:SER:HA	17	0.66
(1,826)	1:91:A:LEU:HD21	1:105:A:LEU:HD13	1	0.66
(1,804)	1:50:A:ARG:HD2	1:50:A:ARG:HG3	7	0.66
(1,804)	1:50:A:ARG:HD2	1:50:A:ARG:HG3	15	0.66
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	4	0.66
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	11	0.66
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	12	0.66
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	14	0.66
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	15	0.66
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD11	19	0.66
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG13	19	0.66
(1,745)	1:145:A:THR:HG21	1:146:A:PRO:HD3	11	0.66
(1,745)	1:145:A:THR:HG22	1:146:A:PRO:HD3	12	0.66
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG22	12	0.66
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD13	8	0.66
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB1	15	0.66
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG11	20	0.66
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG23	17	0.66
(1,435)	1:100:A:LYS:H	1:100:A:LYS:HB3	2	0.66
(1,434)	1:100:A:LYS:H	1:100:A:LYS:HB2	6	0.66
(1,408)	1:120:A:ILE:HG22	1:117:A:GLY:HA2	1	0.66
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	10	0.66
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	8	0.66
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD13	1	0.66
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	3	0.66
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	6	0.66
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	9	0.66
(1,241)	1:152:A:VAL:HG21	1:116:A:ALA:HA	3	0.66
(1,129)	1:103:A:VAL:HG22	1:103:A:VAL:HA	1	0.66
(1,129)	1:103:A:VAL:HG23	1:103:A:VAL:HA	9	0.66
(1,129)	1:103:A:VAL:HG23	1:103:A:VAL:HA	13	0.66
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	9	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2276)	1:63:A:THR:H	1:66:A:SER:HB2	8	0.65
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG21	1	0.65
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	11	0.65
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB1	10	0.65
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG12	13	0.65
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	8	0.65
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	10	0.65
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	2	0.65
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG23	4	0.65
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	5	0.65
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	6	0.65
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	11	0.65
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	15	0.65
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	19	0.65
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	20	0.65
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG21	2	0.65
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG13	7	0.65
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB2	13	0.65
(1,1899)	1:83:A:ALA:H	1:73:A:ILE:HD13	15	0.65
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	14	0.65
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	19	0.65
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	14	0.65
(1,1762)	1:93:A:GLU:H	1:93:A:GLU:HB3	7	0.65
(1,1762)	1:93:A:GLU:H	1:93:A:GLU:HB3	8	0.65
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD13	7	0.65
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD11	11	0.65
(1,1658)	1:93:A:GLU:H	1:93:A:GLU:HB2	1	0.65
(1,1593)	1:58:A:ILE:HD12	1:71:A:VAL:HA	20	0.65
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	5	0.65
(1,1556)	1:87:A:ILE:HG23	1:87:A:ILE:HG13	10	0.65
(1,1556)	1:87:A:ILE:HG21	1:87:A:ILE:HG13	12	0.65
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG21	7	0.65
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	16	0.65
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	18	0.65
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB3	19	0.65
(1,1436)	1:130:A:LEU:H	1:130:A:LEU:HD23	18	0.65
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	10	0.65
(1,1349)	1:34:A:VAL:HG12	1:58:A:ILE:HG23	1	0.65
(1,1349)	1:34:A:VAL:HG12	1:58:A:ILE:HG21	6	0.65
(1,1335)	1:157:A:ILE:HD11	1:137:A:GLU:H	7	0.65
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG13	17	0.65
(1,1307)	1:107:A:THR:HG23	1:27:A:VAL:H	15	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD12	7	0.65
(1,1281)	1:29:A:ILE:HD13	1:34:A:VAL:HA	20	0.65
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD12	19	0.65
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	3	0.65
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	5	0.65
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	7	0.65
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	10	0.65
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	11	0.65
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	13	0.65
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	15	0.65
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	17	0.65
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	18	0.65
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	19	0.65
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	12	0.65
(1,1146)	1:174:A:LEU:HD21	1:111:A:VAL:HA	3	0.65
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD11	2	0.65
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD21	10	0.65
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD23	12	0.65
(1,1105)	1:56:A:ILE:H	1:56:A:ILE:HG12	8	0.65
(1,1068)	1:88:A:TYR:HE1	1:88:A:TYR:HA	12	0.65
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	20	0.65
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD13	13	0.65
(1,1009)	1:160:A:PHE:HA	1:163:A:SER:HB2	2	0.65
(1,896)	1:170:A:ILE:HG22	1:171:A:ARG:HA	6	0.65
(1,886)	1:27:A:VAL:HG11	1:73:A:ILE:HG21	4	0.65
(1,795)	1:178:A:LYS:HB2	1:178:A:LYS:HG2	20	0.65
(1,759)	1:79:A:ALA:HB3	1:76:A:PRO:HG3	13	0.65
(1,756)	1:92:A:LYS:HG2	1:103:A:VAL:HG23	19	0.65
(1,745)	1:145:A:THR:HG23	1:146:A:PRO:HD3	19	0.65
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG22	17	0.65
(1,655)	1:50:A:ARG:HG3	1:50:A:ARG:HA	7	0.65
(1,655)	1:50:A:ARG:HG3	1:50:A:ARG:HA	15	0.65
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB2	5	0.65
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	5	0.65
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	8	0.65
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	1	0.65
(1,525)	1:105:A:LEU:HD11	1:97:A:PHE:HD1	8	0.65
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	9	0.65
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	17	0.65
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG11	18	0.65
(1,434)	1:100:A:LYS:H	1:100:A:LYS:HB2	1	0.65
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	12	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	7	0.65
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	8	0.65
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	15	0.65
(1,241)	1:152:A:VAL:HG23	1:116:A:ALA:HA	5	0.65
(1,241)	1:152:A:VAL:HG22	1:116:A:ALA:HA	7	0.65
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	15	0.65
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	18	0.65
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD22	8	0.65
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	14	0.64
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	18	0.64
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG11	5	0.64
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG13	20	0.64
(1,2155)	1:25:A:VAL:H	1:73:A:ILE:HD13	2	0.64
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	7	0.64
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG23	8	0.64
(1,2018)	1:18:A:MET:H	1:18:A:MET:HB3	2	0.64
(1,2018)	1:18:A:MET:H	1:18:A:MET:HB3	5	0.64
(1,2018)	1:18:A:MET:H	1:18:A:MET:HB3	7	0.64
(1,2018)	1:18:A:MET:H	1:18:A:MET:HB3	16	0.64
(1,2018)	1:18:A:MET:H	1:18:A:MET:HB3	20	0.64
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG21	19	0.64
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG13	11	0.64
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB2	11	0.64
(1,1919)	1:55:A:SER:H	1:73:A:ILE:HD12	19	0.64
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD2	7	0.64
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD2	8	0.64
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	20	0.64
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	16	0.64
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD12	19	0.64
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	16	0.64
(1,1601)	1:134:A:THR:HG21	1:165:A:MET:HG2	1	0.64
(1,1597)	1:57:A:LYS:HE2	1:72:A:VAL:HG12	8	0.64
(1,1597)	1:57:A:LYS:HE2	1:72:A:VAL:HG12	9	0.64
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	10	0.64
(1,1569)	1:37:A:ILE:HG21	1:58:A:ILE:HG12	8	0.64
(1,1556)	1:87:A:ILE:HG21	1:87:A:ILE:HG13	3	0.64
(1,1555)	1:48:A:LEU:HD22	1:87:A:ILE:HG23	4	0.64
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	7	0.64
(1,1346)	1:153:A:ILE:HG23	1:110:A:ARG:HD2	1	0.64
(1,1335)	1:157:A:ILE:HD13	1:137:A:GLU:H	6	0.64
(1,1307)	1:107:A:THR:HG21	1:27:A:VAL:H	19	0.64
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD12	18	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD12	20	0.64
(1,1243)	1:120:A:ILE:HD12	1:120:A:ILE:HB	3	0.64
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	1	0.64
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	2	0.64
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	4	0.64
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	6	0.64
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	8	0.64
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	9	0.64
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	12	0.64
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	16	0.64
(1,1208)	1:176:A:GLN:HA	1:176:A:GLN:HB2	20	0.64
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	13	0.64
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	17	0.64
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD21	2	0.64
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD23	20	0.64
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	5	0.64
(1,1017)	1:173:A:ILE:HG23	1:126:A:THR:HG22	16	0.64
(1,944)	1:138:A:VAL:HG11	1:127:A:VAL:HA	4	0.64
(1,942)	1:153:A:ILE:HG23	1:108:A:HIS:HD2	6	0.64
(1,942)	1:153:A:ILE:HG22	1:108:A:HIS:HD2	10	0.64
(1,896)	1:170:A:ILE:HG22	1:171:A:ARG:HA	7	0.64
(1,871)	1:136:A:ALA:HB3	1:162:A:ALA:HA	3	0.64
(1,871)	1:136:A:ALA:HB2	1:162:A:ALA:HA	13	0.64
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG21	19	0.64
(1,832)	1:28:A:PHE:HB3	1:106:A:GLU:HB2	8	0.64
(1,756)	1:92:A:LYS:HG2	1:103:A:VAL:HG23	12	0.64
(1,745)	1:145:A:THR:HG23	1:146:A:PRO:HD3	14	0.64
(1,745)	1:145:A:THR:HG23	1:146:A:PRO:HD3	17	0.64
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG13	2	0.64
(1,692)	1:115:A:ALA:HB2	1:111:A:VAL:HG23	6	0.64
(1,663)	1:37:A:ILE:HG12	1:37:A:ILE:HG23	13	0.64
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD11	19	0.64
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG12	1	0.64
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD22	13	0.64
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG12	19	0.64
(1,434)	1:100:A:LYS:H	1:100:A:LYS:HB2	14	0.64
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	2	0.64
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	4	0.64
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	5	0.64
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	11	0.64
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	14	0.64
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	16	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	20	0.64
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG22	9	0.64
(1,278)	1:100:A:LYS:HE2	1:100:A:LYS:HG2	16	0.64
(1,241)	1:152:A:VAL:HG22	1:116:A:ALA:HA	6	0.64
(1,129)	1:103:A:VAL:HG21	1:103:A:VAL:HA	12	0.64
(1,94)	1:82:A:LYS:HA	1:82:A:LYS:HD2	14	0.64
(1,2239)	1:25:A:VAL:H	1:80:A:GLN:HB3	20	0.63
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	19	0.63
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB1	4	0.63
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG11	7	0.63
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	9	0.63
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	19	0.63
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG21	16	0.63
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG21	19	0.63
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	14	0.63
(1,2018)	1:18:A:MET:H	1:18:A:MET:HB3	1	0.63
(1,2018)	1:18:A:MET:H	1:18:A:MET:HB3	4	0.63
(1,2018)	1:18:A:MET:H	1:18:A:MET:HB3	9	0.63
(1,2018)	1:18:A:MET:H	1:18:A:MET:HB3	11	0.63
(1,2018)	1:18:A:MET:H	1:18:A:MET:HB3	13	0.63
(1,2018)	1:18:A:MET:H	1:18:A:MET:HB3	15	0.63
(1,2018)	1:18:A:MET:H	1:18:A:MET:HB3	17	0.63
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG22	19	0.63
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG21	4	0.63
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG13	17	0.63
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD2	5	0.63
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	18	0.63
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD21	18	0.63
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	3	0.63
(1,1678)	1:24:A:THR:H	1:23:A:GLU:HB2	15	0.63
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	3	0.63
(1,1658)	1:93:A:GLU:H	1:93:A:GLU:HB2	5	0.63
(1,1603)	1:134:A:THR:HG22	1:165:A:MET:HG3	16	0.63
(1,1569)	1:37:A:ILE:HG21	1:58:A:ILE:HG12	10	0.63
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG12	14	0.63
(1,1557)	1:90:A:LYS:HB2	1:90:A:LYS:HD3	3	0.63
(1,1556)	1:87:A:ILE:HG23	1:87:A:ILE:HG13	4	0.63
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	8	0.63
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	9	0.63
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	10	0.63
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	13	0.63
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	14	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	17	0.63
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	19	0.63
(1,1532)	1:177:A:VAL:HG13	1:178:A:LYS:HG2	3	0.63
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	3	0.63
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	5	0.63
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	19	0.63
(1,1522)	1:33:A:ALA:HB1	1:30:A:PRO:HG3	11	0.63
(1,1522)	1:33:A:ALA:HB2	1:30:A:PRO:HG3	13	0.63
(1,1522)	1:33:A:ALA:HB2	1:30:A:PRO:HG3	18	0.63
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	14	0.63
(1,1365)	1:48:A:LEU:HD22	1:86:A:ARG:HB3	5	0.63
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	1	0.63
(1,1349)	1:34:A:VAL:HG11	1:58:A:ILE:HG23	4	0.63
(1,1346)	1:153:A:ILE:HG23	1:110:A:ARG:HD2	5	0.63
(1,1346)	1:153:A:ILE:HG21	1:110:A:ARG:HD2	14	0.63
(1,1335)	1:157:A:ILE:HD13	1:137:A:GLU:H	5	0.63
(1,1335)	1:157:A:ILE:HD11	1:137:A:GLU:H	10	0.63
(1,1307)	1:107:A:THR:HG23	1:27:A:VAL:H	13	0.63
(1,1301)	1:105:A:LEU:HD13	1:88:A:TYR:HE1	5	0.63
(1,1300)	1:105:A:LEU:HD12	1:29:A:ILE:HG22	1	0.63
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD12	20	0.63
(1,1284)	1:29:A:ILE:HD12	1:30:A:PRO:HD2	12	0.63
(1,1284)	1:29:A:ILE:HD11	1:30:A:PRO:HD2	16	0.63
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD12	12	0.63
(1,1262)	1:48:A:LEU:HA	1:51:A:PHE:HB3	18	0.63
(1,1105)	1:56:A:ILE:H	1:56:A:ILE:HG12	5	0.63
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD13	19	0.63
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	10	0.63
(1,1011)	1:127:A:VAL:HG22	1:138:A:VAL:HB	18	0.63
(1,971)	1:52:A:ALA:HB3	1:56:A:ILE:HD13	7	0.63
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD23	6	0.63
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD21	7	0.63
(1,932)	1:109:A:ILE:HD12	1:107:A:THR:HG22	10	0.63
(1,922)	1:88:A:TYR:HB2	1:103:A:VAL:HG23	5	0.63
(1,891)	1:45:A:ILE:HG23	1:45:A:ILE:HG13	11	0.63
(1,871)	1:136:A:ALA:HB2	1:162:A:ALA:HA	11	0.63
(1,832)	1:28:A:PHE:HB3	1:106:A:GLU:HB2	1	0.63
(1,830)	1:72:A:VAL:HG21	1:57:A:LYS:HE2	5	0.63
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	12	0.63
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	18	0.63
(1,745)	1:145:A:THR:HG23	1:146:A:PRO:HD3	13	0.63
(1,745)	1:145:A:THR:HG22	1:146:A:PRO:HD3	16	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,691)	1:103:A:VAL:HG23	1:105:A:LEU:HD22	15	0.63
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	5	0.63
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	11	0.63
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	16	0.63
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD12	19	0.63
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG13	11	0.63
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG11	17	0.63
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD12	2	0.63
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD13	5	0.63
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD13	11	0.63
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD12	12	0.63
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD12	14	0.63
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD12	17	0.63
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD22	12	0.63
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	7	0.63
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG13	12	0.63
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG11	5	0.63
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG11	6	0.63
(1,409)	1:146:A:PRO:HB2	1:150:A:GLU:HA	16	0.63
(1,404)	1:102:A:GLU:H	1:101:A:GLU:HB2	16	0.63
(1,370)	1:154:A:VAL:HG22	1:119:A:VAL:HG22	8	0.63
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	10	0.63
(1,325)	1:159:A:HIS:HD2	1:159:A:HIS:HA	4	0.63
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG23	4	0.63
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG22	6	0.63
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB3	19	0.63
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	17	0.63
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	19	0.63
(1,244)	1:29:A:ILE:HD13	1:29:A:ILE:HG22	3	0.63
(1,241)	1:152:A:VAL:HG22	1:116:A:ALA:HA	17	0.63
(1,237)	1:37:A:ILE:HG22	1:34:A:VAL:HA	3	0.63
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB2	8	0.63
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	12	0.63
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	20	0.62
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG13	14	0.62
(1,2163)	1:102:A:GLU:H	1:102:A:GLU:HB3	17	0.62
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	18	0.62
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	5	0.62
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	13	0.62
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG21	17	0.62
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	14	0.62
(1,2075)	1:143:A:ASP:H	1:142:A:ARG:HA	16	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2075)	1:143:A:ASP:H	1:142:A:ARG:HA	20	0.62
(1,2059)	1:179:A:GLN:H	1:179:A:GLN:HG2	3	0.62
(1,2059)	1:179:A:GLN:H	1:179:A:GLN:HG2	8	0.62
(1,2059)	1:179:A:GLN:H	1:179:A:GLN:HG2	9	0.62
(1,2059)	1:179:A:GLN:H	1:179:A:GLN:HG2	10	0.62
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG22	8	0.62
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG11	5	0.62
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG21	13	0.62
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD2	3	0.62
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	4	0.62
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	7	0.62
(1,1673)	1:92:A:LYS:H	1:103:A:VAL:HG11	18	0.62
(1,1597)	1:57:A:LYS:HE2	1:72:A:VAL:HG13	2	0.62
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG11	11	0.62
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG12	13	0.62
(1,1557)	1:90:A:LYS:HB2	1:90:A:LYS:HD3	4	0.62
(1,1557)	1:90:A:LYS:HB2	1:90:A:LYS:HD3	6	0.62
(1,1557)	1:90:A:LYS:HB2	1:90:A:LYS:HD3	9	0.62
(1,1555)	1:48:A:LEU:HD23	1:87:A:ILE:HG22	1	0.62
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	3	0.62
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	11	0.62
(1,1532)	1:177:A:VAL:HG13	1:178:A:LYS:HG2	9	0.62
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	15	0.62
(1,1522)	1:33:A:ALA:HB1	1:30:A:PRO:HG3	15	0.62
(1,1441)	1:154:A:VAL:HG21	1:140:A:VAL:HA	19	0.62
(1,1436)	1:130:A:LEU:H	1:130:A:LEU:HD21	11	0.62
(1,1349)	1:34:A:VAL:HG13	1:58:A:ILE:HG23	7	0.62
(1,1346)	1:153:A:ILE:HG23	1:110:A:ARG:HD2	3	0.62
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG13	19	0.62
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD11	9	0.62
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD13	1	0.62
(1,1284)	1:29:A:ILE:HD12	1:30:A:PRO:HD2	13	0.62
(1,1284)	1:29:A:ILE:HD12	1:30:A:PRO:HD2	19	0.62
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	1	0.62
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	5	0.62
(1,1243)	1:120:A:ILE:HD12	1:120:A:ILE:HB	17	0.62
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD13	12	0.62
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	8	0.62
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	19	0.62
(1,1144)	1:29:A:ILE:HA	1:29:A:ILE:HD13	8	0.62
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	2	0.62
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	4	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	9	0.62
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	17	0.62
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	4	0.62
(1,978)	1:29:A:ILE:HA	1:105:A:LEU:HD12	18	0.62
(1,942)	1:153:A:ILE:HG22	1:108:A:HIS:HD2	1	0.62
(1,932)	1:109:A:ILE:HD13	1:107:A:THR:HG22	3	0.62
(1,932)	1:109:A:ILE:HD13	1:107:A:THR:HG22	18	0.62
(1,922)	1:88:A:TYR:HB2	1:103:A:VAL:HG21	14	0.62
(1,896)	1:170:A:ILE:HG23	1:171:A:ARG:HA	8	0.62
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	11	0.62
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	13	0.62
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	14	0.62
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	15	0.62
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	17	0.62
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	19	0.62
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	20	0.62
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD12	18	0.62
(1,759)	1:79:A:ALA:HB1	1:76:A:PRO:HG3	20	0.62
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG12	6	0.62
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG13	7	0.62
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	8	0.62
(1,698)	1:25:A:VAL:HG13	1:107:A:THR:HB	11	0.62
(1,692)	1:115:A:ALA:HB3	1:111:A:VAL:HG21	10	0.62
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD11	1	0.62
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB1	10	0.62
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB2	14	0.62
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	1	0.62
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	2	0.62
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	12	0.62
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	14	0.62
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD12	20	0.62
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG13	17	0.62
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD13	3	0.62
(1,525)	1:105:A:LEU:HD12	1:97:A:PHE:HD1	7	0.62
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	1	0.62
(1,435)	1:100:A:LYS:H	1:100:A:LYS:HB3	11	0.62
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	3	0.62
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG21	1	0.62
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG23	3	0.62
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB3	6	0.62
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB3	15	0.62
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	13	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,237)	1:37:A:ILE:HG22	1:34:A:VAL:HA	5	0.62
(1,213)	1:36:A:ALA:HB2	1:37:A:ILE:HD11	7	0.62
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	4	0.62
(1,129)	1:103:A:VAL:HG22	1:103:A:VAL:HA	17	0.62
(1,129)	1:103:A:VAL:HG21	1:103:A:VAL:HA	19	0.62
(1,2276)	1:63:A:THR:H	1:66:A:SER:HB2	6	0.61
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	17	0.61
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	5	0.61
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	4	0.61
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	10	0.61
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG11	1	0.61
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG13	3	0.61
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	8	0.61
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	12	0.61
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG21	18	0.61
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	2	0.61
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	16	0.61
(1,2075)	1:143:A:ASP:H	1:142:A:ARG:HA	5	0.61
(1,2059)	1:179:A:GLN:H	1:179:A:GLN:HG2	6	0.61
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG21	6	0.61
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG21	10	0.61
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG13	2	0.61
(1,1919)	1:55:A:SER:H	1:73:A:ILE:HD12	17	0.61
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	1	0.61
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB2	6	0.61
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	15	0.61
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	16	0.61
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	12	0.61
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	1	0.61
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	8	0.61
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD11	14	0.61
(1,1678)	1:24:A:THR:H	1:23:A:GLU:HB2	11	0.61
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	5	0.61
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	16	0.61
(1,1658)	1:93:A:GLU:H	1:93:A:GLU:HB2	4	0.61
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD12	17	0.61
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	15	0.61
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	18	0.61
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD13	13	0.61
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG12	12	0.61
(1,1546)	1:166:A:ALA:HB3	1:130:A:LEU:HD11	5	0.61
(1,1539)	1:90:A:LYS:HG3	1:91:A:LEU:HD22	6	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1532)	1:177:A:VAL:HG13	1:178:A:LYS:HG2	5	0.61
(1,1522)	1:33:A:ALA:HB1	1:30:A:PRO:HG3	19	0.61
(1,1495)	1:174:A:LEU:HD23	1:118:A:ARG:HG3	20	0.61
(1,1346)	1:153:A:ILE:HG21	1:110:A:ARG:HD2	17	0.61
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD12	16	0.61
(1,1284)	1:29:A:ILE:HD13	1:30:A:PRO:HD2	14	0.61
(1,1281)	1:29:A:ILE:HD11	1:34:A:VAL:HA	4	0.61
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	10	0.61
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	2	0.61
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	3	0.61
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	4	0.61
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	6	0.61
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	9	0.61
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD11	15	0.61
(1,1146)	1:174:A:LEU:HD22	1:111:A:VAL:HA	1	0.61
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	1	0.61
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD12	1	0.61
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	9	0.61
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD11	15	0.61
(1,990)	1:110:A:ARG:HD3	1:153:A:ILE:HD12	18	0.61
(1,894)	1:54:A:ALA:HB1	1:56:A:ILE:HD13	4	0.61
(1,871)	1:136:A:ALA:HB3	1:162:A:ALA:HA	20	0.61
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG23	15	0.61
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG23	17	0.61
(1,832)	1:28:A:PHE:HB3	1:106:A:GLU:HB2	7	0.61
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	20	0.61
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD11	17	0.61
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD11	20	0.61
(1,748)	1:62:A:GLU:HG2	1:63:A:THR:HG22	5	0.61
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG12	8	0.61
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG12	9	0.61
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG12	14	0.61
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	16	0.61
(1,692)	1:115:A:ALA:HB1	1:111:A:VAL:HG23	1	0.61
(1,673)	1:104:A:LYS:HG2	1:104:A:LYS:HE2	17	0.61
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD13	7	0.61
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB1	19	0.61
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	3	0.61
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	4	0.61
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	6	0.61
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	7	0.61
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	9	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	10	0.61
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	15	0.61
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	17	0.61
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	18	0.61
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	19	0.61
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	6	0.61
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	8	0.61
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	9	0.61
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG12	13	0.61
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	8	0.61
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG12	1	0.61
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG11	3	0.61
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG12	6	0.61
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG11	8	0.61
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG13	2	0.61
(1,407)	1:120:A:ILE:HG21	1:117:A:GLY:HA3	10	0.61
(1,407)	1:120:A:ILE:HG23	1:117:A:GLY:HA3	16	0.61
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	7	0.61
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	9	0.61
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	12	0.61
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	1	0.61
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	18	0.61
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB2	12	0.61
(1,307)	1:91:A:LEU:HG	1:105:A:LEU:HG	12	0.61
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	11	0.61
(1,268)	1:50:A:ARG:HB2	1:50:A:ARG:HG3	4	0.61
(1,268)	1:50:A:ARG:HB2	1:50:A:ARG:HG3	5	0.61
(1,268)	1:50:A:ARG:HB2	1:50:A:ARG:HG3	6	0.61
(1,268)	1:50:A:ARG:HB2	1:50:A:ARG:HG3	8	0.61
(1,268)	1:50:A:ARG:HB2	1:50:A:ARG:HG3	16	0.61
(1,241)	1:152:A:VAL:HG21	1:116:A:ALA:HA	1	0.61
(1,237)	1:37:A:ILE:HG22	1:34:A:VAL:HA	1	0.61
(1,213)	1:36:A:ALA:HB1	1:37:A:ILE:HD13	8	0.61
(1,129)	1:103:A:VAL:HG22	1:103:A:VAL:HA	14	0.61
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD22	1	0.61
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD22	4	0.61
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD23	6	0.61
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD23	7	0.61
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD23	13	0.61
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD21	15	0.61
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD23	18	0.61
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	13	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	16	0.6
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG23	15	0.6
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	1	0.6
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	11	0.6
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG23	4	0.6
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG23	16	0.6
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB1	2	0.6
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG12	9	0.6
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG13	16	0.6
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG11	18	0.6
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	11	0.6
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG23	14	0.6
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	13	0.6
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	17	0.6
(1,2075)	1:143:A:ASP:H	1:142:A:ARG:HA	18	0.6
(1,2059)	1:179:A:GLN:H	1:179:A:GLN:HG2	5	0.6
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG12	1	0.6
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG21	9	0.6
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG23	20	0.6
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG13	8	0.6
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG11	14	0.6
(1,1919)	1:55:A:SER:H	1:73:A:ILE:HD13	20	0.6
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD2	9	0.6
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	8	0.6
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	9	0.6
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD11	16	0.6
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	12	0.6
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	13	0.6
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	1	0.6
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	2	0.6
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	5	0.6
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	6	0.6
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	7	0.6
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	9	0.6
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	10	0.6
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	12	0.6
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	13	0.6
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	18	0.6
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	19	0.6
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD13	4	0.6
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD11	6	0.6
(1,1585)	1:177:A:VAL:HG23	1:118:A:ARG:HD3	6	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1569)	1:37:A:ILE:HG23	1:58:A:ILE:HG12	9	0.6
(1,1556)	1:87:A:ILE:HG22	1:87:A:ILE:HG13	1	0.6
(1,1539)	1:90:A:LYS:HG3	1:91:A:LEU:HD21	3	0.6
(1,1522)	1:33:A:ALA:HB2	1:30:A:PRO:HG3	14	0.6
(1,1436)	1:130:A:LEU:H	1:130:A:LEU:HD21	20	0.6
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	3	0.6
(1,1335)	1:157:A:ILE:HD13	1:137:A:GLU:H	8	0.6
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG11	8	0.6
(1,1281)	1:29:A:ILE:HD12	1:34:A:VAL:HA	5	0.6
(1,1241)	1:34:A:VAL:HG12	1:37:A:ILE:HB	18	0.6
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD13	14	0.6
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD12	5	0.6
(1,1101)	1:93:A:GLU:H	1:92:A:LYS:HG2	16	0.6
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	3	0.6
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	6	0.6
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD12	20	0.6
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	16	0.6
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	19	0.6
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	8	0.6
(1,1071)	1:105:A:LEU:HD13	1:88:A:TYR:HE1	5	0.6
(1,1031)	1:68:A:VAL:HG13	1:28:A:PHE:HD1	16	0.6
(1,1015)	1:170:A:ILE:HD12	1:130:A:LEU:HD13	14	0.6
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	9	0.6
(1,942)	1:153:A:ILE:HG22	1:108:A:HIS:HD2	15	0.6
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD21	1	0.6
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD23	9	0.6
(1,894)	1:54:A:ALA:HB2	1:56:A:ILE:HD13	15	0.6
(1,889)	1:96:A:PHE:HE1	1:36:A:ALA:HB3	2	0.6
(1,774)	1:150:A:GLU:HG2	1:113:A:ALA:HB1	11	0.6
(1,756)	1:92:A:LYS:HG2	1:103:A:VAL:HG22	13	0.6
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG12	3	0.6
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	2	0.6
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	7	0.6
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	20	0.6
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD13	15	0.6
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD22	15	0.6
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	13	0.6
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG11	2	0.6
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG23	14	0.6
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	5	0.6
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	15	0.6
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	1	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	20	0.6
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG23	16	0.6
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	12	0.6
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	13	0.6
(1,330)	1:96:A:PHE:HD1	1:96:A:PHE:HB2	19	0.6
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG23	7	0.6
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB2	17	0.6
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB1	18	0.6
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG23	17	0.6
(1,237)	1:37:A:ILE:HG23	1:34:A:VAL:HA	11	0.6
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	1	0.6
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	5	0.6
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	9	0.6
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	11	0.6
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	13	0.6
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	14	0.6
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	2	0.59
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	10	0.59
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG22	14	0.59
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	7	0.59
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	8	0.59
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	13	0.59
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	18	0.59
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG21	12	0.59
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	6	0.59
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB2	5	0.59
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB2	9	0.59
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG12	2	0.59
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	14	0.59
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	17	0.59
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	18	0.59
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG23	9	0.59
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG22	5	0.59
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG23	20	0.59
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG11	6	0.59
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG13	5	0.59
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG11	17	0.59
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB1	15	0.59
(1,1919)	1:55:A:SER:H	1:73:A:ILE:HD13	15	0.59
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	18	0.59
(1,1869)	1:59:A:ALA:H	1:69:A:ARG:HB2	11	0.59
(1,1858)	1:139:A:VAL:H	1:138:A:VAL:HG13	19	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1835)	1:43:A:GLN:H	1:43:A:GLN:HB3	7	0.59
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD22	1	0.59
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	1	0.59
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	5	0.59
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	8	0.59
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	13	0.59
(1,1678)	1:24:A:THR:H	1:23:A:GLU:HB2	19	0.59
(1,1658)	1:93:A:GLU:H	1:93:A:GLU:HB2	10	0.59
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD11	19	0.59
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	4	0.59
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	11	0.59
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	14	0.59
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	15	0.59
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	16	0.59
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	17	0.59
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	20	0.59
(1,1603)	1:134:A:THR:HG22	1:165:A:MET:HG3	3	0.59
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD13	2	0.59
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD12	9	0.59
(1,1513)	1:157:A:ILE:HD11	1:139:A:VAL:HB	3	0.59
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	17	0.59
(1,1390)	1:105:A:LEU:HD21	1:29:A:ILE:HG23	19	0.59
(1,1346)	1:153:A:ILE:HG23	1:110:A:ARG:HD2	15	0.59
(1,1335)	1:157:A:ILE:HD12	1:137:A:GLU:H	1	0.59
(1,1335)	1:157:A:ILE:HD13	1:137:A:GLU:H	3	0.59
(1,1335)	1:157:A:ILE:HD11	1:137:A:GLU:H	4	0.59
(1,1335)	1:157:A:ILE:HD13	1:137:A:GLU:H	18	0.59
(1,1307)	1:107:A:THR:HG22	1:27:A:VAL:H	7	0.59
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD11	3	0.59
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	5	0.59
(1,1146)	1:174:A:LEU:HD21	1:111:A:VAL:HA	5	0.59
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD21	7	0.59
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	5	0.59
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	20	0.59
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	1	0.59
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	6	0.59
(1,1045)	1:97:A:PHE:HD1	1:97:A:PHE:HB3	20	0.59
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	5	0.59
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	6	0.59
(1,1011)	1:127:A:VAL:HG23	1:138:A:VAL:HB	15	0.59
(1,949)	1:111:A:VAL:HG21	1:112:A:PRO:HD3	4	0.59
(1,894)	1:54:A:ALA:HB2	1:56:A:ILE:HD12	17	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,886)	1:27:A:VAL:HG13	1:73:A:ILE:HG22	6	0.59
(1,882)	1:133:A:LEU:HD23	1:133:A:LEU:HB2	10	0.59
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	16	0.59
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD13	11	0.59
(1,762)	1:135:A:ALA:HB1	1:162:A:ALA:HB2	11	0.59
(1,762)	1:135:A:ALA:HB2	1:162:A:ALA:HB3	12	0.59
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG12	11	0.59
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	6	0.59
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	20	0.59
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	8	0.59
(1,568)	1:154:A:VAL:HA	1:154:A:VAL:HG13	13	0.59
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	2	0.59
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG12	4	0.59
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG12	4	0.59
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	13	0.59
(1,392)	1:74:A:THR:H	1:73:A:ILE:HD12	19	0.59
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	18	0.59
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB2	4	0.59
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG13	16	0.59
(1,241)	1:152:A:VAL:HG22	1:116:A:ALA:HA	13	0.59
(1,237)	1:37:A:ILE:HG21	1:34:A:VAL:HA	7	0.59
(1,237)	1:37:A:ILE:HG23	1:34:A:VAL:HA	9	0.59
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	7	0.59
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	20	0.59
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	2	0.59
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	6	0.59
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	7	0.59
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	8	0.59
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	10	0.59
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	12	0.59
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	16	0.59
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	19	0.59
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	20	0.59
(1,129)	1:103:A:VAL:HG21	1:103:A:VAL:HA	11	0.59
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	15	0.59
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD23	3	0.59
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	6	0.58
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	10	0.58
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB2	1	0.58
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB3	3	0.58
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	11	0.58
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	4	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	15	0.58
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	16	0.58
(1,2112)	1:75:A:GLY:H	1:80:A:GLN:HE22	16	0.58
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	5	0.58
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	12	0.58
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	13	0.58
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG22	10	0.58
(1,2018)	1:18:A:MET:H	1:18:A:MET:HB3	8	0.58
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG22	2	0.58
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG12	2	0.58
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG11	3	0.58
(1,1981)	1:176:A:GLN:HE22	1:176:A:GLN:HB2	20	0.58
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG22	6	0.58
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG11	19	0.58
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB1	18	0.58
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD1	4	0.58
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	3	0.58
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	3	0.58
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB2	1	0.58
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	16	0.58
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	3	0.58
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	4	0.58
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	6	0.58
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	10	0.58
(1,1678)	1:24:A:THR:H	1:23:A:GLU:HB2	18	0.58
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	8	0.58
(1,1658)	1:93:A:GLU:H	1:93:A:GLU:HB2	11	0.58
(1,1603)	1:134:A:THR:HG21	1:165:A:MET:HG3	13	0.58
(1,1582)	1:59:A:ALA:HB1	1:70:A:MET:HG3	16	0.58
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG13	20	0.58
(1,1539)	1:90:A:LYS:HG3	1:91:A:LEU:HD22	9	0.58
(1,1537)	1:91:A:LEU:HD23	1:96:A:PHE:HB2	10	0.58
(1,1505)	1:90:A:LYS:HB2	1:87:A:ILE:HA	20	0.58
(1,1488)	1:45:A:ILE:HD11	1:45:A:ILE:HG22	19	0.58
(1,1349)	1:34:A:VAL:HG12	1:58:A:ILE:HG21	9	0.58
(1,1346)	1:153:A:ILE:HG21	1:110:A:ARG:HD2	6	0.58
(1,1335)	1:157:A:ILE:HD12	1:137:A:GLU:H	2	0.58
(1,1325)	1:145:A:THR:HG23	1:146:A:PRO:HB2	5	0.58
(1,1325)	1:145:A:THR:HG21	1:146:A:PRO:HB2	7	0.58
(1,1325)	1:145:A:THR:HG21	1:146:A:PRO:HB2	8	0.58
(1,1301)	1:105:A:LEU:HD12	1:88:A:TYR:HE1	12	0.58
(1,1300)	1:105:A:LEU:HD11	1:29:A:ILE:HG22	11	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1281)	1:29:A:ILE:HD11	1:34:A:VAL:HA	10	0.58
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	1	0.58
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	4	0.58
(1,1105)	1:56:A:ILE:H	1:56:A:ILE:HG12	10	0.58
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	11	0.58
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	15	0.58
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	2	0.58
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	7	0.58
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	6	0.58
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	2	0.58
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	3	0.58
(1,942)	1:153:A:ILE:HG22	1:108:A:HIS:HD2	7	0.58
(1,942)	1:153:A:ILE:HG23	1:108:A:HIS:HD2	19	0.58
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	12	0.58
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	16	0.58
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	17	0.58
(1,886)	1:27:A:VAL:HG12	1:73:A:ILE:HG21	2	0.58
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG23	14	0.58
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	10	0.58
(1,774)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	15	0.58
(1,774)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	18	0.58
(1,748)	1:62:A:GLU:HG2	1:63:A:THR:HG22	9	0.58
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG13	1	0.58
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG11	4	0.58
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	1	0.58
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	3	0.58
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	4	0.58
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB1	2	0.58
(1,599)	1:76:A:PRO:HB3	1:77:A:PRO:HD3	13	0.58
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	7	0.58
(1,584)	1:114:A:SER:HA	1:114:A:SER:HB2	3	0.58
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG13	7	0.58
(1,447)	1:69:A:ARG:H	1:68:A:VAL:HG12	9	0.58
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG12	9	0.58
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	6	0.58
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG22	13	0.58
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB2	2	0.58
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB1	9	0.58
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB3	10	0.58
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB3	11	0.58
(1,278)	1:100:A:LYS:HE2	1:100:A:LYS:HG2	15	0.58
(1,268)	1:50:A:ARG:HB2	1:50:A:ARG:HG3	13	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,268)	1:50:A:ARG:HB2	1:50:A:ARG:HG3	17	0.58
(1,244)	1:29:A:ILE:HD12	1:29:A:ILE:HG21	2	0.58
(1,241)	1:152:A:VAL:HG22	1:116:A:ALA:HA	8	0.58
(1,237)	1:37:A:ILE:HG23	1:34:A:VAL:HA	2	0.58
(1,237)	1:37:A:ILE:HG22	1:34:A:VAL:HA	16	0.58
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG21	15	0.58
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	1	0.58
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	2	0.58
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	3	0.58
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	4	0.58
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	5	0.58
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	6	0.58
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	8	0.58
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	9	0.58
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	10	0.58
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	13	0.58
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	15	0.58
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	18	0.58
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	3	0.58
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	15	0.58
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	17	0.58
(1,146)	1:20:A:PRO:HA	1:20:A:PRO:HB2	18	0.58
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB2	1	0.58
(1,96)	1:93:A:GLU:HA	1:93:A:GLU:HG3	12	0.58
(1,19)	1:56:A:ILE:H	1:56:A:ILE:HD13	1	0.58
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG22	11	0.57
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	15	0.57
(1,2239)	1:25:A:VAL:H	1:80:A:GLN:HB3	11	0.57
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG23	3	0.57
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	14	0.57
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	11	0.57
(1,2163)	1:102:A:GLU:H	1:102:A:GLU:HB3	18	0.57
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	20	0.57
(1,2112)	1:75:A:GLY:H	1:80:A:GLN:HE22	17	0.57
(1,2112)	1:75:A:GLY:H	1:80:A:GLN:HE22	19	0.57
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	6	0.57
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	8	0.57
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	19	0.57
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	20	0.57
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG22	18	0.57
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG21	14	0.57
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD11	4	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD13	8	0.57
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB2	8	0.57
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD1	1	0.57
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	9	0.57
(1,1858)	1:139:A:VAL:H	1:138:A:VAL:HG11	12	0.57
(1,1835)	1:43:A:GLN:H	1:43:A:GLN:HB3	15	0.57
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD13	4	0.57
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	7	0.57
(1,1704)	1:91:A:LEU:H	1:91:A:LEU:HD12	15	0.57
(1,1673)	1:92:A:LYS:H	1:103:A:VAL:HG12	16	0.57
(1,1658)	1:93:A:GLU:H	1:93:A:GLU:HB2	13	0.57
(1,1658)	1:93:A:GLU:H	1:93:A:GLU:HB2	18	0.57
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	11	0.57
(1,1582)	1:59:A:ALA:HB1	1:70:A:MET:HG3	11	0.57
(1,1539)	1:90:A:LYS:HG3	1:91:A:LEU:HD22	4	0.57
(1,1495)	1:174:A:LEU:HD21	1:118:A:ARG:HG3	13	0.57
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	20	0.57
(1,1403)	1:37:A:ILE:HG23	1:29:A:ILE:HD13	11	0.57
(1,1390)	1:105:A:LEU:HD22	1:29:A:ILE:HG21	10	0.57
(1,1346)	1:153:A:ILE:HG21	1:110:A:ARG:HD2	4	0.57
(1,1346)	1:153:A:ILE:HG22	1:110:A:ARG:HD2	16	0.57
(1,1284)	1:29:A:ILE:HD11	1:30:A:PRO:HD2	11	0.57
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	3	0.57
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	7	0.57
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	9	0.57
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD11	6	0.57
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	10	0.57
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	14	0.57
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	5	0.57
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	19	0.57
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	20	0.57
(1,1051)	1:97:A:PHE:HD1	1:101:A:GLU:HG2	16	0.57
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	7	0.57
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	8	0.57
(1,978)	1:29:A:ILE:HA	1:105:A:LEU:HD13	19	0.57
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG13	16	0.57
(1,944)	1:138:A:VAL:HG13	1:127:A:VAL:HA	2	0.57
(1,942)	1:153:A:ILE:HG23	1:108:A:HIS:HD2	2	0.57
(1,942)	1:153:A:ILE:HG22	1:108:A:HIS:HD2	5	0.57
(1,942)	1:153:A:ILE:HG21	1:108:A:HIS:HD2	8	0.57
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	6	0.57
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	7	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	11	0.57
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	13	0.57
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	14	0.57
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	15	0.57
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	18	0.57
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	19	0.57
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	20	0.57
(1,896)	1:170:A:ILE:HG21	1:171:A:ARG:HA	16	0.57
(1,871)	1:136:A:ALA:HB2	1:162:A:ALA:HA	15	0.57
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	4	0.57
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG13	10	0.57
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG13	15	0.57
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG13	20	0.57
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	5	0.57
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	9	0.57
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	14	0.57
(1,584)	1:114:A:SER:HA	1:114:A:SER:HB2	1	0.57
(1,584)	1:114:A:SER:HA	1:114:A:SER:HB2	8	0.57
(1,584)	1:114:A:SER:HA	1:114:A:SER:HB2	16	0.57
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD11	6	0.57
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG13	20	0.57
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG12	1	0.57
(1,409)	1:146:A:PRO:HB2	1:150:A:GLU:HA	19	0.57
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	2	0.57
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	8	0.57
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	19	0.57
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD12	7	0.57
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG21	12	0.57
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB3	13	0.57
(1,307)	1:91:A:LEU:HG	1:105:A:LEU:HG	15	0.57
(1,294)	1:130:A:LEU:HD21	1:169:A:LYS:HB2	2	0.57
(1,280)	1:168:A:ARG:HD2	1:168:A:ARG:HB2	13	0.57
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	12	0.57
(1,268)	1:50:A:ARG:HB2	1:50:A:ARG:HG3	2	0.57
(1,268)	1:50:A:ARG:HB2	1:50:A:ARG:HG3	3	0.57
(1,268)	1:50:A:ARG:HB2	1:50:A:ARG:HG3	18	0.57
(1,268)	1:50:A:ARG:HB2	1:50:A:ARG:HG3	20	0.57
(1,237)	1:37:A:ILE:HG22	1:34:A:VAL:HA	10	0.57
(1,226)	1:48:A:LEU:HD11	1:87:A:ILE:HA	5	0.57
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	11	0.57
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	12	0.57
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	14	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	16	0.57
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	17	0.57
(1,185)	1:178:A:LYS:HA	1:178:A:LYS:HB2	19	0.57
(1,133)	1:165:A:MET:HG2	1:165:A:MET:HA	6	0.57
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB2	6	0.57
(1,114)	1:52:A:ALA:HA	1:82:A:LYS:HD2	20	0.57
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG11	14	0.57
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	14	0.56
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	9	0.56
(1,2239)	1:25:A:VAL:H	1:80:A:GLN:HB2	1	0.56
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	3	0.56
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	1	0.56
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	1	0.56
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	2	0.56
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	3	0.56
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	7	0.56
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	8	0.56
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	12	0.56
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG13	4	0.56
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	17	0.56
(1,2112)	1:75:A:GLY:H	1:80:A:GLN:HE22	4	0.56
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	1	0.56
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	2	0.56
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	7	0.56
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	9	0.56
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	10	0.56
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	16	0.56
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG21	15	0.56
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG23	18	0.56
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	10	0.56
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG22	6	0.56
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG23	7	0.56
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG22	10	0.56
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG22	11	0.56
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG22	14	0.56
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG21	4	0.56
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG12	11	0.56
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG23	7	0.56
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG13	3	0.56
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG13	9	0.56
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	15	0.56
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	12	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	18	0.56
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB2	8	0.56
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD13	11	0.56
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD11	17	0.56
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	20	0.56
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD13	18	0.56
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	2	0.56
(1,1746)	1:63:A:THR:H	1:62:A:GLU:HA	9	0.56
(1,1718)	1:49:A:SER:H	1:49:A:SER:HB2	14	0.56
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	11	0.56
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	11	0.56
(1,1658)	1:93:A:GLU:H	1:93:A:GLU:HB2	17	0.56
(1,1593)	1:58:A:ILE:HD11	1:71:A:VAL:HA	16	0.56
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD13	8	0.56
(1,1537)	1:91:A:LEU:HD22	1:96:A:PHE:HB2	3	0.56
(1,1537)	1:91:A:LEU:HD22	1:96:A:PHE:HB2	5	0.56
(1,1537)	1:91:A:LEU:HD23	1:96:A:PHE:HB2	6	0.56
(1,1537)	1:91:A:LEU:HD23	1:96:A:PHE:HB2	12	0.56
(1,1535)	1:170:A:ILE:HD12	1:170:A:ILE:HG21	15	0.56
(1,1510)	1:93:A:GLU:HG2	1:94:A:GLU:H	8	0.56
(1,1410)	1:104:A:LYS:HB2	1:157:A:ILE:HG22	9	0.56
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG23	4	0.56
(1,1366)	1:48:A:LEU:HD22	1:86:A:ARG:HD2	5	0.56
(1,1366)	1:48:A:LEU:HD23	1:86:A:ARG:HD2	7	0.56
(1,1360)	1:130:A:LEU:HD22	1:166:A:ALA:HA	3	0.56
(1,1346)	1:153:A:ILE:HG21	1:110:A:ARG:HD2	2	0.56
(1,1335)	1:157:A:ILE:HD13	1:137:A:GLU:H	20	0.56
(1,1325)	1:145:A:THR:HG22	1:146:A:PRO:HB2	1	0.56
(1,1325)	1:145:A:THR:HG21	1:146:A:PRO:HB2	2	0.56
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG22	1	0.56
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG22	3	0.56
(1,1301)	1:105:A:LEU:HD13	1:88:A:TYR:HE1	13	0.56
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	2	0.56
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	6	0.56
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD13	18	0.56
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	8	0.56
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD13	11	0.56
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	3	0.56
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	11	0.56
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	15	0.56
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	17	0.56
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	18	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	9	0.56
(1,1009)	1:160:A:PHE:HA	1:163:A:SER:HB2	20	0.56
(1,978)	1:29:A:ILE:HA	1:105:A:LEU:HD12	15	0.56
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG11	2	0.56
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG12	3	0.56
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG12	5	0.56
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG12	14	0.56
(1,949)	1:111:A:VAL:HG23	1:112:A:PRO:HD3	8	0.56
(1,944)	1:138:A:VAL:HG11	1:127:A:VAL:HA	7	0.56
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD23	8	0.56
(1,902)	1:92:A:LYS:HA	1:92:A:LYS:HD3	1	0.56
(1,902)	1:92:A:LYS:HA	1:92:A:LYS:HD3	4	0.56
(1,902)	1:92:A:LYS:HA	1:92:A:LYS:HD3	7	0.56
(1,902)	1:92:A:LYS:HA	1:92:A:LYS:HD3	8	0.56
(1,871)	1:136:A:ALA:HB2	1:162:A:ALA:HA	7	0.56
(1,830)	1:72:A:VAL:HG21	1:57:A:LYS:HE2	10	0.56
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	17	0.56
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD13	12	0.56
(1,748)	1:62:A:GLU:HG2	1:63:A:THR:HG22	2	0.56
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG12	18	0.56
(1,708)	1:83:A:ALA:HA	1:48:A:LEU:HD12	16	0.56
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	1	0.56
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	14	0.56
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	17	0.56
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	19	0.56
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	20	0.56
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	12	0.56
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD12	6	0.56
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD13	9	0.56
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD13	15	0.56
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD13	17	0.56
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG22	13	0.56
(1,465)	1:120:A:ILE:HD13	1:120:A:ILE:HA	12	0.56
(1,409)	1:146:A:PRO:HB2	1:150:A:GLU:HA	17	0.56
(1,370)	1:154:A:VAL:HG22	1:119:A:VAL:HG23	13	0.56
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB1	3	0.56
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB2	5	0.56
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB2	20	0.56
(1,268)	1:50:A:ARG:HB2	1:50:A:ARG:HG3	1	0.56
(1,229)	1:119:A:VAL:HG12	1:116:A:ALA:HA	4	0.56
(1,138)	1:150:A:GLU:HB2	1:150:A:GLU:HG2	9	0.56
(1,129)	1:103:A:VAL:HG21	1:103:A:VAL:HA	20	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG11	15	0.56
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	5	0.55
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	8	0.55
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG22	5	0.55
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG22	9	0.55
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG22	10	0.55
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	8	0.55
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB3	6	0.55
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	4	0.55
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	9	0.55
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	13	0.55
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	14	0.55
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	15	0.55
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	16	0.55
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	17	0.55
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	19	0.55
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG22	9	0.55
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	12	0.55
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	4	0.55
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	10	0.55
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	17	0.55
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	20	0.55
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	8	0.55
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG21	1	0.55
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG21	12	0.55
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG22	13	0.55
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG23	15	0.55
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG13	4	0.55
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG11	9	0.55
(1,1981)	1:176:A:GLN:HE22	1:176:A:GLN:HB2	11	0.55
(1,1981)	1:176:A:GLN:HE22	1:176:A:GLN:HB2	19	0.55
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG21	1	0.55
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD12	3	0.55
(1,1919)	1:55:A:SER:H	1:73:A:ILE:HD11	12	0.55
(1,1919)	1:55:A:SER:H	1:73:A:ILE:HD12	13	0.55
(1,1919)	1:55:A:SER:H	1:73:A:ILE:HD12	14	0.55
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	14	0.55
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	16	0.55
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD12	15	0.55
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD13	19	0.55
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD12	15	0.55
(1,1718)	1:49:A:SER:H	1:49:A:SER:HB2	1	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1718)	1:49:A:SER:H	1:49:A:SER:HB2	12	0.55
(1,1718)	1:49:A:SER:H	1:49:A:SER:HB2	15	0.55
(1,1718)	1:49:A:SER:H	1:49:A:SER:HB2	16	0.55
(1,1718)	1:49:A:SER:H	1:49:A:SER:HB2	20	0.55
(1,1658)	1:93:A:GLU:H	1:93:A:GLU:HB2	16	0.55
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	4	0.55
(1,1556)	1:87:A:ILE:HG22	1:87:A:ILE:HG13	18	0.55
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG23	10	0.55
(1,1537)	1:91:A:LEU:HD23	1:96:A:PHE:HB2	2	0.55
(1,1537)	1:91:A:LEU:HD23	1:96:A:PHE:HB2	9	0.55
(1,1510)	1:93:A:GLU:HG2	1:94:A:GLU:H	7	0.55
(1,1403)	1:37:A:ILE:HG23	1:29:A:ILE:HD11	4	0.55
(1,1346)	1:153:A:ILE:HG23	1:110:A:ARG:HD2	7	0.55
(1,1346)	1:153:A:ILE:HG23	1:110:A:ARG:HD2	13	0.55
(1,1335)	1:157:A:ILE:HD13	1:137:A:GLU:H	9	0.55
(1,1335)	1:157:A:ILE:HD12	1:137:A:GLU:H	12	0.55
(1,1325)	1:145:A:THR:HG21	1:146:A:PRO:HB2	3	0.55
(1,1325)	1:145:A:THR:HG23	1:146:A:PRO:HB2	18	0.55
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG22	8	0.55
(1,1300)	1:105:A:LEU:HD11	1:29:A:ILE:HG21	14	0.55
(1,1280)	1:145:A:THR:HB	1:146:A:PRO:HD3	8	0.55
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD11	17	0.55
(1,1256)	1:111:A:VAL:HG23	1:111:A:VAL:HA	11	0.55
(1,1256)	1:111:A:VAL:HG21	1:111:A:VAL:HA	18	0.55
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD12	17	0.55
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD13	9	0.55
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	12	0.55
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	16	0.55
(1,1071)	1:105:A:LEU:HD12	1:88:A:TYR:HE1	12	0.55
(1,1039)	1:105:A:LEU:HD23	1:88:A:TYR:HD1	20	0.55
(1,1016)	1:126:A:THR:HG23	1:173:A:ILE:HD12	11	0.55
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD21	4	0.55
(1,902)	1:92:A:LYS:HA	1:92:A:LYS:HD3	9	0.55
(1,902)	1:92:A:LYS:HA	1:92:A:LYS:HD3	10	0.55
(1,871)	1:136:A:ALA:HB3	1:162:A:ALA:HA	17	0.55
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	9	0.55
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	12	0.55
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	13	0.55
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	19	0.55
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD12	13	0.55
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD12	15	0.55
(1,762)	1:135:A:ALA:HB1	1:162:A:ALA:HB1	20	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,748)	1:62:A:GLU:HG2	1:63:A:THR:HG22	1	0.55
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG13	5	0.55
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG11	17	0.55
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	15	0.55
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	2	0.55
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	3	0.55
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	6	0.55
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	7	0.55
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	8	0.55
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	10	0.55
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	11	0.55
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	15	0.55
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	16	0.55
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD11	2	0.55
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB2	7	0.55
(1,528)	1:103:A:VAL:HG21	1:159:A:HIS:HD2	4	0.55
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD12	3	0.55
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB3	11	0.55
(1,409)	1:146:A:PRO:HB2	1:150:A:GLU:HA	13	0.55
(1,408)	1:120:A:ILE:HG21	1:117:A:GLY:HA2	8	0.55
(1,400)	1:138:A:VAL:HG22	1:154:A:VAL:HG21	17	0.55
(1,307)	1:91:A:LEU:HG	1:105:A:LEU:HG	14	0.55
(1,268)	1:50:A:ARG:HB2	1:50:A:ARG:HG3	19	0.55
(1,244)	1:29:A:ILE:HD11	1:29:A:ILE:HG23	20	0.55
(1,238)	1:48:A:LEU:HD22	1:83:A:ALA:HB1	12	0.55
(1,238)	1:48:A:LEU:HD21	1:83:A:ALA:HB3	15	0.55
(1,237)	1:37:A:ILE:HG22	1:34:A:VAL:HA	8	0.55
(1,133)	1:165:A:MET:HG2	1:165:A:MET:HA	13	0.55
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	2	0.55
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	8	0.55
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	9	0.55
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB3	13	0.55
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB2	20	0.55
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	3	0.54
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	19	0.54
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG22	2	0.54
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG22	6	0.54
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	12	0.54
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG23	20	0.54
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB2	7	0.54
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB1	8	0.54
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB1	18	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	10	0.54
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	18	0.54
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	20	0.54
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG11	10	0.54
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG23	19	0.54
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG22	9	0.54
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG22	17	0.54
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG21	5	0.54
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG22	9	0.54
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG21	11	0.54
(1,1959)	1:95:A:ASN:H	1:103:A:VAL:HG13	4	0.54
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG11	4	0.54
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB3	19	0.54
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	8	0.54
(1,1858)	1:139:A:VAL:H	1:138:A:VAL:HG13	18	0.54
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD12	2	0.54
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD12	3	0.54
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD12	13	0.54
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	4	0.54
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	19	0.54
(1,1718)	1:49:A:SER:H	1:49:A:SER:HB2	2	0.54
(1,1718)	1:49:A:SER:H	1:49:A:SER:HB2	3	0.54
(1,1718)	1:49:A:SER:H	1:49:A:SER:HB2	5	0.54
(1,1718)	1:49:A:SER:H	1:49:A:SER:HB2	7	0.54
(1,1593)	1:58:A:ILE:HD11	1:71:A:VAL:HA	7	0.54
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB1	3	0.54
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD12	1	0.54
(1,1582)	1:59:A:ALA:HB1	1:70:A:MET:HG3	1	0.54
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG22	3	0.54
(1,1537)	1:91:A:LEU:HD21	1:96:A:PHE:HB2	19	0.54
(1,1535)	1:170:A:ILE:HD12	1:170:A:ILE:HG21	19	0.54
(1,1513)	1:157:A:ILE:HD12	1:139:A:VAL:HB	14	0.54
(1,1403)	1:37:A:ILE:HG21	1:29:A:ILE:HD12	9	0.54
(1,1386)	1:87:A:ILE:HD12	1:105:A:LEU:HD23	1	0.54
(1,1365)	1:48:A:LEU:HD22	1:86:A:ARG:HB3	10	0.54
(1,1360)	1:130:A:LEU:HD21	1:166:A:ALA:HA	8	0.54
(1,1335)	1:157:A:ILE:HD11	1:137:A:GLU:H	19	0.54
(1,1325)	1:145:A:THR:HG23	1:146:A:PRO:HB2	6	0.54
(1,1325)	1:145:A:THR:HG21	1:146:A:PRO:HB2	9	0.54
(1,1307)	1:107:A:THR:HG21	1:27:A:VAL:H	10	0.54
(1,1300)	1:105:A:LEU:HD11	1:29:A:ILE:HG21	3	0.54
(1,1281)	1:29:A:ILE:HD12	1:34:A:VAL:HA	9	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1273)	1:96:A:PHE:HZ	1:94:A:GLU:HG2	13	0.54
(1,1256)	1:111:A:VAL:HG21	1:111:A:VAL:HA	1	0.54
(1,1256)	1:111:A:VAL:HG22	1:111:A:VAL:HA	14	0.54
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	14	0.54
(1,1146)	1:174:A:LEU:HD22	1:111:A:VAL:HA	4	0.54
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	12	0.54
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD11	13	0.54
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	13	0.54
(1,1084)	1:152:A:VAL:H	1:152:A:VAL:HB	14	0.54
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	16	0.54
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD11	10	0.54
(1,1016)	1:126:A:THR:HG23	1:173:A:ILE:HD11	7	0.54
(1,1011)	1:127:A:VAL:HG22	1:138:A:VAL:HB	12	0.54
(1,944)	1:138:A:VAL:HG11	1:127:A:VAL:HA	1	0.54
(1,932)	1:109:A:ILE:HD12	1:107:A:THR:HG21	9	0.54
(1,902)	1:92:A:LYS:HA	1:92:A:LYS:HD3	2	0.54
(1,902)	1:92:A:LYS:HA	1:92:A:LYS:HD3	3	0.54
(1,871)	1:136:A:ALA:HB2	1:162:A:ALA:HA	9	0.54
(1,871)	1:136:A:ALA:HB3	1:162:A:ALA:HA	18	0.54
(1,856)	1:56:A:ILE:HD13	1:49:A:SER:HA	2	0.54
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG22	12	0.54
(1,818)	1:130:A:LEU:HD12	1:130:A:LEU:HB2	14	0.54
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	1	0.54
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	2	0.54
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	3	0.54
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	6	0.54
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	7	0.54
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	8	0.54
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	11	0.54
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	14	0.54
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	16	0.54
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	11	0.54
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	18	0.54
(1,673)	1:104:A:LYS:HG2	1:104:A:LYS:HE2	9	0.54
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	4	0.54
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	5	0.54
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	9	0.54
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	12	0.54
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD12	5	0.54
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	15	0.54
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB1	8	0.54
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	2	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD11	4	0.54
(1,578)	1:176:A:GLN:HA	1:176:A:GLN:HG3	14	0.54
(1,564)	1:71:A:VAL:HA	1:71:A:VAL:HG13	14	0.54
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG13	11	0.54
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD21	16	0.54
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD12	14	0.54
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG23	9	0.54
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG22	18	0.54
(1,408)	1:120:A:ILE:HG22	1:117:A:GLY:HA2	5	0.54
(1,370)	1:154:A:VAL:HG22	1:119:A:VAL:HG23	17	0.54
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	2	0.54
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG23	16	0.54
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG22	17	0.54
(1,307)	1:91:A:LEU:HG	1:105:A:LEU:HG	17	0.54
(1,294)	1:130:A:LEU:HD22	1:169:A:LYS:HB2	1	0.54
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG11	12	0.54
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG11	19	0.54
(1,226)	1:48:A:LEU:HD13	1:87:A:ILE:HA	2	0.54
(1,213)	1:36:A:ALA:HB2	1:37:A:ILE:HD13	9	0.54
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	10	0.54
(1,133)	1:165:A:MET:HG2	1:165:A:MET:HA	11	0.54
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	6	0.54
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	7	0.54
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	11	0.54
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	15	0.54
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	20	0.54
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB1	4	0.54
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB1	9	0.54
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB3	10	0.54
(1,94)	1:82:A:LYS:HA	1:82:A:LYS:HD2	11	0.54
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG12	12	0.54
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	1	0.53
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	15	0.53
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	17	0.53
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	12	0.53
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG3	10	0.53
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG22	2	0.53
(1,2167)	1:80:A:GLN:HE21	1:80:A:GLN:HB2	7	0.53
(1,2167)	1:80:A:GLN:HE21	1:80:A:GLN:HB2	10	0.53
(1,2167)	1:80:A:GLN:HE21	1:80:A:GLN:HB2	14	0.53
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	7	0.53
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	3	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	6	0.53
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	12	0.53
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	6	0.53
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG21	2	0.53
(1,1981)	1:176:A:GLN:HE22	1:176:A:GLN:HB2	15	0.53
(1,1981)	1:176:A:GLN:HE22	1:176:A:GLN:HB2	16	0.53
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD12	6	0.53
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB3	7	0.53
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	2	0.53
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	14	0.53
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	17	0.53
(1,1858)	1:139:A:VAL:H	1:138:A:VAL:HG13	15	0.53
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	5	0.53
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD11	12	0.53
(1,1783)	1:151:A:GLN:H	1:151:A:GLN:HB2	19	0.53
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	5	0.53
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD11	19	0.53
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD12	20	0.53
(1,1603)	1:134:A:THR:HG23	1:165:A:MET:HG3	5	0.53
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD11	3	0.53
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD12	14	0.53
(1,1576)	1:29:A:ILE:HD12	1:33:A:ALA:HB3	19	0.53
(1,1553)	1:87:A:ILE:HD12	1:29:A:ILE:HG23	16	0.53
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	7	0.53
(1,1535)	1:170:A:ILE:HD11	1:170:A:ILE:HG22	3	0.53
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	13	0.53
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	19	0.53
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD13	9	0.53
(1,1410)	1:104:A:LYS:HB2	1:157:A:ILE:HG23	4	0.53
(1,1403)	1:37:A:ILE:HG22	1:29:A:ILE:HD12	5	0.53
(1,1396)	1:91:A:LEU:HD23	1:30:A:PRO:HD3	1	0.53
(1,1391)	1:29:A:ILE:H	1:29:A:ILE:HG23	16	0.53
(1,1386)	1:87:A:ILE:HD13	1:105:A:LEU:HD22	14	0.53
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG23	3	0.53
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	16	0.53
(1,1349)	1:34:A:VAL:HG12	1:58:A:ILE:HG23	2	0.53
(1,1346)	1:153:A:ILE:HG22	1:110:A:ARG:HD2	8	0.53
(1,1335)	1:157:A:ILE:HD11	1:137:A:GLU:H	14	0.53
(1,1325)	1:145:A:THR:HG22	1:146:A:PRO:HB2	4	0.53
(1,1325)	1:145:A:THR:HG23	1:146:A:PRO:HB2	15	0.53
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG12	1	0.53
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD13	6	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1256)	1:111:A:VAL:HG23	1:111:A:VAL:HA	7	0.53
(1,1256)	1:111:A:VAL:HG21	1:111:A:VAL:HA	13	0.53
(1,1256)	1:111:A:VAL:HG21	1:111:A:VAL:HA	17	0.53
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	7	0.53
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	18	0.53
(1,1071)	1:105:A:LEU:HD13	1:88:A:TYR:HE1	13	0.53
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	1	0.53
(1,1017)	1:173:A:ILE:HG23	1:126:A:THR:HG23	3	0.53
(1,1017)	1:173:A:ILE:HG23	1:126:A:THR:HG22	5	0.53
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	11	0.53
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	13	0.53
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	14	0.53
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	17	0.53
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	19	0.53
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG11	19	0.53
(1,942)	1:153:A:ILE:HG21	1:108:A:HIS:HD2	12	0.53
(1,942)	1:153:A:ILE:HG23	1:108:A:HIS:HD2	14	0.53
(1,941)	1:153:A:ILE:HG23	1:155:A:LYS:HA	16	0.53
(1,932)	1:109:A:ILE:HD11	1:107:A:THR:HG23	4	0.53
(1,929)	1:27:A:VAL:HA	1:27:A:VAL:HG23	18	0.53
(1,902)	1:92:A:LYS:HA	1:92:A:LYS:HD3	5	0.53
(1,902)	1:92:A:LYS:HA	1:92:A:LYS:HD3	6	0.53
(1,871)	1:136:A:ALA:HB3	1:162:A:ALA:HA	10	0.53
(1,871)	1:136:A:ALA:HB3	1:162:A:ALA:HA	19	0.53
(1,856)	1:56:A:ILE:HD12	1:49:A:SER:HA	12	0.53
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG21	11	0.53
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG23	18	0.53
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG23	20	0.53
(1,830)	1:72:A:VAL:HG21	1:57:A:LYS:HE2	1	0.53
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	5	0.53
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	15	0.53
(1,798)	1:48:A:LEU:HD11	1:48:A:LEU:HB3	9	0.53
(1,775)	1:113:A:ALA:HB1	1:152:A:VAL:HG13	9	0.53
(1,762)	1:135:A:ALA:HB2	1:162:A:ALA:HB3	17	0.53
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG12	12	0.53
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG13	19	0.53
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	10	0.53
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	13	0.53
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	19	0.53
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	19	0.53
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB3	6	0.53
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB2	9	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG11	10	0.53
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD11	4	0.53
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD11	10	0.53
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD13	16	0.53
(1,424)	1:57:A:LYS:HA	1:57:A:LYS:HD2	16	0.53
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB2	6	0.53
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	16	0.53
(1,400)	1:138:A:VAL:HG23	1:154:A:VAL:HG23	2	0.53
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD13	3	0.53
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG23	15	0.53
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB1	1	0.53
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB1	8	0.53
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB1	14	0.53
(1,294)	1:130:A:LEU:HD22	1:169:A:LYS:HB2	3	0.53
(1,237)	1:37:A:ILE:HG23	1:34:A:VAL:HA	6	0.53
(1,237)	1:37:A:ILE:HG22	1:34:A:VAL:HA	18	0.53
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG21	11	0.53
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG21	14	0.53
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG22	16	0.53
(1,213)	1:36:A:ALA:HB3	1:37:A:ILE:HD11	4	0.53
(1,133)	1:165:A:MET:HG2	1:165:A:MET:HA	8	0.53
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	16	0.53
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB2	2	0.53
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB2	14	0.53
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB1	18	0.53
(1,116)	1:80:A:GLN:HA	1:83:A:ALA:HB3	10	0.53
(1,94)	1:82:A:LYS:HA	1:82:A:LYS:HD2	3	0.53
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG13	2	0.53
(1,19)	1:56:A:ILE:H	1:56:A:ILE:HD12	16	0.53
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG23	15	0.52
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	15	0.52
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG22	4	0.52
(1,2167)	1:80:A:GLN:HE21	1:80:A:GLN:HB2	6	0.52
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	1	0.52
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	5	0.52
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	6	0.52
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	7	0.52
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	8	0.52
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	9	0.52
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	13	0.52
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	19	0.52
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	6	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	9	0.52
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG21	11	0.52
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG21	12	0.52
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG23	4	0.52
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG12	10	0.52
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG13	16	0.52
(1,1981)	1:176:A:GLN:HE22	1:176:A:GLN:HB2	5	0.52
(1,1981)	1:176:A:GLN:HE22	1:176:A:GLN:HB2	17	0.52
(1,1899)	1:83:A:ALA:H	1:73:A:ILE:HD12	19	0.52
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	10	0.52
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG21	3	0.52
(1,1792)	1:100:A:LYS:H	1:100:A:LYS:HG2	13	0.52
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD12	6	0.52
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	10	0.52
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	16	0.52
(1,1631)	1:138:A:VAL:H	1:138:A:VAL:HG13	16	0.52
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD13	5	0.52
(1,1582)	1:59:A:ALA:HB1	1:70:A:MET:HG3	14	0.52
(1,1582)	1:59:A:ALA:HB1	1:70:A:MET:HG3	15	0.52
(1,1569)	1:37:A:ILE:HG22	1:58:A:ILE:HG12	15	0.52
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG12	19	0.52
(1,1556)	1:87:A:ILE:HG21	1:87:A:ILE:HG13	7	0.52
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG21	17	0.52
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	1	0.52
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	2	0.52
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	4	0.52
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	5	0.52
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	6	0.52
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	12	0.52
(1,1546)	1:166:A:ALA:HB2	1:130:A:LEU:HD11	20	0.52
(1,1537)	1:91:A:LEU:HD23	1:96:A:PHE:HB2	4	0.52
(1,1488)	1:45:A:ILE:HD12	1:45:A:ILE:HG21	15	0.52
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	4	0.52
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD11	10	0.52
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	8	0.52
(1,1325)	1:145:A:THR:HG22	1:146:A:PRO:HB2	16	0.52
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG11	7	0.52
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD12	11	0.52
(1,1256)	1:111:A:VAL:HG23	1:111:A:VAL:HA	12	0.52
(1,1256)	1:111:A:VAL:HG22	1:111:A:VAL:HA	15	0.52
(1,1241)	1:34:A:VAL:HG11	1:37:A:ILE:HB	1	0.52
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	5	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1107)	1:174:A:LEU:H	1:174:A:LEU:HD23	9	0.52
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD12	15	0.52
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD11	4	0.52
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD12	16	0.52
(1,1058)	1:26:A:HIS:HD2	1:72:A:VAL:HG12	16	0.52
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	7	0.52
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	18	0.52
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	12	0.52
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	15	0.52
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	16	0.52
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	20	0.52
(1,954)	1:119:A:VAL:HB	1:120:A:ILE:HD12	6	0.52
(1,953)	1:138:A:VAL:HG11	1:120:A:ILE:HD11	12	0.52
(1,944)	1:138:A:VAL:HG13	1:127:A:VAL:HA	8	0.52
(1,941)	1:153:A:ILE:HG22	1:155:A:LYS:HA	9	0.52
(1,896)	1:170:A:ILE:HG22	1:171:A:ARG:HA	5	0.52
(1,871)	1:136:A:ALA:HB2	1:162:A:ALA:HA	14	0.52
(1,832)	1:28:A:PHE:HB3	1:106:A:GLU:HB2	6	0.52
(1,801)	1:146:A:PRO:HG2	1:145:A:THR:HA	18	0.52
(1,756)	1:92:A:LYS:HG2	1:103:A:VAL:HG23	20	0.52
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	12	0.52
(1,692)	1:115:A:ALA:HB1	1:111:A:VAL:HG21	4	0.52
(1,688)	1:155:A:LYS:HG3	1:155:A:LYS:HE2	13	0.52
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	1	0.52
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB2	1	0.52
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD11	2	0.52
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	5	0.52
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD13	5	0.52
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	3	0.52
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG11	14	0.52
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG13	7	0.52
(1,400)	1:138:A:VAL:HG22	1:154:A:VAL:HG22	1	0.52
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	1	0.52
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	5	0.52
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	9	0.52
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	17	0.52
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	14	0.52
(1,307)	1:91:A:LEU:HG	1:105:A:LEU:HG	18	0.52
(1,280)	1:168:A:ARG:HD2	1:168:A:ARG:HB2	4	0.52
(1,280)	1:168:A:ARG:HD2	1:168:A:ARG:HB2	8	0.52
(1,280)	1:168:A:ARG:HD2	1:168:A:ARG:HB2	11	0.52
(1,280)	1:168:A:ARG:HD2	1:168:A:ARG:HB2	12	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,244)	1:29:A:ILE:HD12	1:29:A:ILE:HG23	1	0.52
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB2	3	0.52
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB2	5	0.52
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB1	11	0.52
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB3	12	0.52
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB2	15	0.52
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB2	17	0.52
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB2	19	0.52
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB1	16	0.52
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG11	20	0.52
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	18	0.51
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG21	9	0.51
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	3	0.51
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB2	16	0.51
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB1	20	0.51
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	4	0.51
(1,2171)	1:152:A:VAL:H	1:151:A:GLN:HG3	19	0.51
(1,2167)	1:80:A:GLN:HE21	1:80:A:GLN:HB2	3	0.51
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	4	0.51
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	18	0.51
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	3	0.51
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	9	0.51
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	12	0.51
(1,2040)	1:178:A:LYS:H	1:177:A:VAL:HG23	16	0.51
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG23	14	0.51
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG23	3	0.51
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG23	6	0.51
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG23	7	0.51
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG22	8	0.51
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG12	19	0.51
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG21	8	0.51
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	19	0.51
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	18	0.51
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG23	10	0.51
(1,1792)	1:100:A:LYS:H	1:100:A:LYS:HG2	20	0.51
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	2	0.51
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	7	0.51
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	8	0.51
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD11	9	0.51
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD12	20	0.51
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	1	0.51
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	14	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	17	0.51
(1,1766)	1:22:A:GLN:H	1:22:A:GLN:HB3	18	0.51
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD11	17	0.51
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	18	0.51
(1,1603)	1:134:A:THR:HG21	1:165:A:MET:HG3	8	0.51
(1,1585)	1:177:A:VAL:HG22	1:118:A:ARG:HD3	1	0.51
(1,1582)	1:59:A:ALA:HB2	1:70:A:MET:HG3	5	0.51
(1,1569)	1:37:A:ILE:HG22	1:58:A:ILE:HG12	18	0.51
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD3	15	0.51
(1,1537)	1:91:A:LEU:HD23	1:96:A:PHE:HB2	8	0.51
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG22	5	0.51
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB3	14	0.51
(1,1495)	1:174:A:LEU:HD21	1:118:A:ARG:HG3	10	0.51
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	10	0.51
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	16	0.51
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	12	0.51
(1,1410)	1:104:A:LYS:HB2	1:157:A:ILE:HG22	5	0.51
(1,1410)	1:104:A:LYS:HB2	1:157:A:ILE:HG22	17	0.51
(1,1391)	1:29:A:ILE:H	1:29:A:ILE:HG21	12	0.51
(1,1349)	1:34:A:VAL:HG13	1:58:A:ILE:HG21	5	0.51
(1,1335)	1:157:A:ILE:HD13	1:137:A:GLU:H	17	0.51
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG12	6	0.51
(1,1284)	1:29:A:ILE:HD11	1:30:A:PRO:HD2	15	0.51
(1,1281)	1:29:A:ILE:HD12	1:34:A:VAL:HA	3	0.51
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD13	9	0.51
(1,1256)	1:111:A:VAL:HG22	1:111:A:VAL:HA	16	0.51
(1,1256)	1:111:A:VAL:HG22	1:111:A:VAL:HA	20	0.51
(1,1241)	1:34:A:VAL:HG13	1:37:A:ILE:HB	5	0.51
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	15	0.51
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD12	12	0.51
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD11	19	0.51
(1,1045)	1:97:A:PHE:HD1	1:97:A:PHE:HB3	11	0.51
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	4	0.51
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	18	0.51
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG12	18	0.51
(1,944)	1:138:A:VAL:HG12	1:127:A:VAL:HA	3	0.51
(1,917)	1:74:A:THR:HG21	1:24:A:THR:HA	5	0.51
(1,876)	1:109:A:ILE:HG21	1:107:A:THR:HG23	20	0.51
(1,856)	1:56:A:ILE:HD13	1:49:A:SER:HA	6	0.51
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG11	20	0.51
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	2	0.51
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	3	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	4	0.51
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	6	0.51
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	9	0.51
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	11	0.51
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	12	0.51
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	13	0.51
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	14	0.51
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	15	0.51
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	18	0.51
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	19	0.51
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	20	0.51
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG11	13	0.51
(1,729)	1:29:A:ILE:HD11	1:34:A:VAL:HG11	1	0.51
(1,701)	1:146:A:PRO:HA	1:146:A:PRO:HG2	17	0.51
(1,684)	1:25:A:VAL:HG12	1:107:A:THR:HG23	6	0.51
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD11	16	0.51
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	14	0.51
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB1	4	0.51
(1,564)	1:71:A:VAL:HA	1:71:A:VAL:HG12	20	0.51
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD12	2	0.51
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD12	12	0.51
(1,525)	1:105:A:LEU:HD13	1:97:A:PHE:HD1	2	0.51
(1,525)	1:105:A:LEU:HD12	1:97:A:PHE:HD1	9	0.51
(1,517)	1:142:A:ARG:HD2	1:142:A:ARG:HA	9	0.51
(1,408)	1:120:A:ILE:HG22	1:117:A:GLY:HA2	6	0.51
(1,408)	1:120:A:ILE:HG21	1:117:A:GLY:HA2	7	0.51
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	8	0.51
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	10	0.51
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	15	0.51
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	15	0.51
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD11	4	0.51
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	5	0.51
(1,294)	1:130:A:LEU:HD21	1:169:A:LYS:HB2	5	0.51
(1,294)	1:130:A:LEU:HD23	1:169:A:LYS:HB2	19	0.51
(1,244)	1:29:A:ILE:HD12	1:29:A:ILE:HG23	4	0.51
(1,237)	1:37:A:ILE:HG23	1:34:A:VAL:HA	13	0.51
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG23	18	0.51
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG21	20	0.51
(1,210)	1:45:A:ILE:HG12	1:56:A:ILE:HG22	19	0.51
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	11	0.51
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	12	0.51
(1,133)	1:165:A:MET:HG2	1:165:A:MET:HA	10	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,129)	1:103:A:VAL:HG23	1:103:A:VAL:HA	15	0.51
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB2	7	0.51
(1,127)	1:112:A:PRO:HD3	1:115:A:ALA:HB2	16	0.51
(1,92)	1:48:A:LEU:HA	1:48:A:LEU:HG	11	0.51
(1,81)	1:131:A:GLN:HA	1:131:A:GLN:HG3	16	0.51
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG13	1	0.51
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	4	0.5
(1,2327)	1:140:A:VAL:HG21	2:4:B:G:H1'	15	0.5
(1,2327)	1:140:A:VAL:HG22	2:4:B:G:H1'	15	0.5
(1,2327)	1:140:A:VAL:HG23	2:4:B:G:H1'	15	0.5
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG23	17	0.5
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	4	0.5
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	1	0.5
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG21	3	0.5
(1,2179)	1:155:A:LYS:H	1:154:A:VAL:HG11	19	0.5
(1,2149)	1:150:A:GLU:H	1:149:A:ASN:HB3	10	0.5
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	3	0.5
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	7	0.5
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG21	7	0.5
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG21	17	0.5
(1,2025)	1:90:A:LYS:H	1:90:A:LYS:HG2	10	0.5
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG21	1	0.5
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	10	0.5
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	14	0.5
(1,1981)	1:176:A:GLN:HE22	1:176:A:GLN:HB2	8	0.5
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG23	3	0.5
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	20	0.5
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD1	20	0.5
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	7	0.5
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	2	0.5
(1,1792)	1:100:A:LYS:H	1:100:A:LYS:HG2	17	0.5
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	5	0.5
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	9	0.5
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD12	1	0.5
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	19	0.5
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	9	0.5
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	11	0.5
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	15	0.5
(1,1764)	1:51:A:PHE:H	1:50:A:ARG:HB2	15	0.5
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD11	14	0.5
(1,1711)	1:37:A:ILE:H	1:37:A:ILE:HG12	15	0.5
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	14	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB2	1	0.5
(1,1582)	1:59:A:ALA:HB1	1:70:A:MET:HG3	17	0.5
(1,1581)	1:48:A:LEU:HG	1:56:A:ILE:HD11	9	0.5
(1,1576)	1:29:A:ILE:HD12	1:33:A:ALA:HB2	17	0.5
(1,1569)	1:37:A:ILE:HG23	1:58:A:ILE:HG12	6	0.5
(1,1553)	1:87:A:ILE:HD12	1:29:A:ILE:HG21	20	0.5
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG21	4	0.5
(1,1537)	1:91:A:LEU:HD22	1:96:A:PHE:HB2	7	0.5
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG22	9	0.5
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG22	10	0.5
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	7	0.5
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	8	0.5
(1,1403)	1:37:A:ILE:HG23	1:29:A:ILE:HD11	2	0.5
(1,1403)	1:37:A:ILE:HG22	1:29:A:ILE:HD11	10	0.5
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	5	0.5
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	9	0.5
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	17	0.5
(1,1346)	1:153:A:ILE:HG21	1:110:A:ARG:HD2	9	0.5
(1,1335)	1:157:A:ILE:HD13	1:137:A:GLU:H	15	0.5
(1,1325)	1:145:A:THR:HG21	1:146:A:PRO:HB2	11	0.5
(1,1325)	1:145:A:THR:HG23	1:146:A:PRO:HB2	14	0.5
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG13	2	0.5
(1,1301)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	15	0.5
(1,1289)	1:31:A:ALA:HB2	1:67:A:LYS:HA	5	0.5
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD12	6	0.5
(1,1281)	1:29:A:ILE:HD11	1:34:A:VAL:HA	15	0.5
(1,1273)	1:96:A:PHE:HZ	1:94:A:GLU:HG2	18	0.5
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	11	0.5
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	17	0.5
(1,1007)	1:151:A:GLN:HG2	1:112:A:PRO:HA	19	0.5
(1,965)	1:97:A:PHE:HA	1:97:A:PHE:HD1	20	0.5
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG12	12	0.5
(1,954)	1:119:A:VAL:HB	1:120:A:ILE:HD13	12	0.5
(1,944)	1:138:A:VAL:HG13	1:127:A:VAL:HA	5	0.5
(1,941)	1:153:A:ILE:HG22	1:155:A:LYS:HA	2	0.5
(1,941)	1:153:A:ILE:HG21	1:155:A:LYS:HA	3	0.5
(1,941)	1:153:A:ILE:HG21	1:155:A:LYS:HA	5	0.5
(1,941)	1:153:A:ILE:HG23	1:155:A:LYS:HA	12	0.5
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD23	3	0.5
(1,894)	1:54:A:ALA:HB3	1:56:A:ILE:HD13	18	0.5
(1,871)	1:136:A:ALA:HB1	1:162:A:ALA:HA	2	0.5
(1,834)	1:45:A:ILE:HD13	1:57:A:LYS:HA	16	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,833)	1:37:A:ILE:HD12	1:87:A:ILE:HA	18	0.5
(1,830)	1:72:A:VAL:HG21	1:57:A:LYS:HE2	4	0.5
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD12	14	0.5
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	4	0.5
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	18	0.5
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	1	0.5
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	5	0.5
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	7	0.5
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	8	0.5
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	16	0.5
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	17	0.5
(1,728)	1:88:A:TYR:HA	1:103:A:VAL:HG12	12	0.5
(1,728)	1:88:A:TYR:HA	1:103:A:VAL:HG12	13	0.5
(1,692)	1:115:A:ALA:HB2	1:111:A:VAL:HG21	2	0.5
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB3	3	0.5
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD22	4	0.5
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD23	8	0.5
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD23	9	0.5
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD12	11	0.5
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	12	0.5
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	19	0.5
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	14	0.5
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	15	0.5
(1,470)	1:14:A:PHE:H	1:14:A:PHE:HB2	12	0.5
(1,470)	1:14:A:PHE:H	1:14:A:PHE:HB2	13	0.5
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG12	10	0.5
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG23	7	0.5
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB1	2	0.5
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB1	5	0.5
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	1	0.5
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	6	0.5
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	16	0.5
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	18	0.5
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	19	0.5
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	16	0.5
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	17	0.5
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG23	6	0.5
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG13	19	0.5
(1,307)	1:91:A:LEU:HG	1:105:A:LEU:HG	13	0.5
(1,294)	1:130:A:LEU:HD22	1:169:A:LYS:HB2	12	0.5
(1,288)	1:111:A:VAL:HG22	1:174:A:LEU:HD22	14	0.5
(1,288)	1:111:A:VAL:HG22	1:174:A:LEU:HD22	19	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,237)	1:37:A:ILE:HG23	1:34:A:VAL:HA	4	0.5
(1,237)	1:37:A:ILE:HG22	1:34:A:VAL:HA	17	0.5
(1,229)	1:119:A:VAL:HG12	1:116:A:ALA:HA	10	0.5
(1,226)	1:48:A:LEU:HD13	1:87:A:ILE:HA	6	0.5
(1,213)	1:36:A:ALA:HB2	1:37:A:ILE:HD11	2	0.5
(1,213)	1:36:A:ALA:HB1	1:37:A:ILE:HD13	3	0.5
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	9	0.5
(1,164)	1:73:A:ILE:HB	1:84:A:GLN:HG2	7	0.5
(1,116)	1:80:A:GLN:HA	1:83:A:ALA:HB3	8	0.5
(1,94)	1:82:A:LYS:HA	1:82:A:LYS:HD2	1	0.5
(1,94)	1:82:A:LYS:HA	1:82:A:LYS:HD2	8	0.5
(1,94)	1:82:A:LYS:HA	1:82:A:LYS:HD2	12	0.5
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	16	0.5
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	2	0.49
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	6	0.49
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	8	0.49
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	10	0.49
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	14	0.49
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	12	0.49
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG21	10	0.49
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	3	0.49
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	7	0.49
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB1	16	0.49
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG22	19	0.49
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	19	0.49
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG21	5	0.49
(1,2167)	1:80:A:GLN:HE21	1:80:A:GLN:HB2	9	0.49
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	5	0.49
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	17	0.49
(1,2112)	1:75:A:GLY:H	1:80:A:GLN:HE22	18	0.49
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	4	0.49
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	12	0.49
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	14	0.49
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG23	3	0.49
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG21	8	0.49
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG22	9	0.49
(1,2004)	1:74:A:THR:H	1:74:A:THR:HG23	16	0.49
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG11	6	0.49
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG12	20	0.49
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	18	0.49
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG22	12	0.49
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	5	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1919)	1:55:A:SER:H	1:73:A:ILE:HD11	16	0.49
(1,1899)	1:83:A:ALA:H	1:73:A:ILE:HD11	18	0.49
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD2	6	0.49
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	16	0.49
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG22	16	0.49
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	15	0.49
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB2	7	0.49
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	4	0.49
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	13	0.49
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	20	0.49
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	11	0.49
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	12	0.49
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	17	0.49
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	18	0.49
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	19	0.49
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	13	0.49
(1,1631)	1:138:A:VAL:H	1:138:A:VAL:HG13	14	0.49
(1,1593)	1:58:A:ILE:HD12	1:71:A:VAL:HA	15	0.49
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB3	11	0.49
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD11	7	0.49
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD12	10	0.49
(1,1556)	1:87:A:ILE:HG23	1:87:A:ILE:HG13	6	0.49
(1,1556)	1:87:A:ILE:HG21	1:87:A:ILE:HG13	8	0.49
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG23	19	0.49
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG21	1	0.49
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG22	2	0.49
(1,1495)	1:174:A:LEU:HD23	1:118:A:ARG:HG3	14	0.49
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	2	0.49
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	5	0.49
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	6	0.49
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	9	0.49
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	13	0.49
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	14	0.49
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	19	0.49
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	7	0.49
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	8	0.49
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	9	0.49
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	11	0.49
(1,1366)	1:48:A:LEU:HD22	1:86:A:ARG:HD2	6	0.49
(1,1360)	1:130:A:LEU:HD21	1:166:A:ALA:HA	4	0.49
(1,1360)	1:130:A:LEU:HD22	1:166:A:ALA:HA	7	0.49
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	13	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG23	5	0.49
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	20	0.49
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG21	5	0.49
(1,1301)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	10	0.49
(1,1281)	1:29:A:ILE:HD11	1:34:A:VAL:HA	2	0.49
(1,1256)	1:111:A:VAL:HG22	1:111:A:VAL:HA	19	0.49
(1,1242)	1:25:A:VAL:HG13	1:26:A:HIS:HA	7	0.49
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	2	0.49
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	4	0.49
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	8	0.49
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	9	0.49
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB2	12	0.49
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	18	0.49
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD12	15	0.49
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	3	0.49
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	8	0.49
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	14	0.49
(1,992)	1:142:A:ARG:HD2	1:142:A:ARG:HB2	9	0.49
(1,983)	1:48:A:LEU:HD23	1:83:A:ALA:HA	6	0.49
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG13	4	0.49
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG13	10	0.49
(1,954)	1:119:A:VAL:HB	1:120:A:ILE:HD12	8	0.49
(1,942)	1:153:A:ILE:HG23	1:108:A:HIS:HD2	9	0.49
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD21	10	0.49
(1,900)	1:90:A:LYS:HE2	1:36:A:ALA:HB1	19	0.49
(1,896)	1:170:A:ILE:HG22	1:171:A:ARG:HA	12	0.49
(1,882)	1:133:A:LEU:HD22	1:133:A:LEU:HB2	5	0.49
(1,882)	1:133:A:LEU:HD22	1:133:A:LEU:HB2	11	0.49
(1,882)	1:133:A:LEU:HD21	1:133:A:LEU:HB2	12	0.49
(1,882)	1:133:A:LEU:HD23	1:133:A:LEU:HB2	17	0.49
(1,882)	1:133:A:LEU:HD21	1:133:A:LEU:HB2	19	0.49
(1,882)	1:133:A:LEU:HD23	1:133:A:LEU:HB2	20	0.49
(1,871)	1:136:A:ALA:HB3	1:162:A:ALA:HA	6	0.49
(1,871)	1:136:A:ALA:HB3	1:162:A:ALA:HA	8	0.49
(1,856)	1:56:A:ILE:HD11	1:49:A:SER:HA	19	0.49
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG21	5	0.49
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG21	13	0.49
(1,784)	1:34:A:VAL:HG12	1:58:A:ILE:HD11	18	0.49
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	1	0.49
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	2	0.49
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	3	0.49
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	5	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	6	0.49
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	7	0.49
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	8	0.49
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	12	0.49
(1,774)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	16	0.49
(1,762)	1:135:A:ALA:HB1	1:162:A:ALA:HB1	4	0.49
(1,762)	1:135:A:ALA:HB3	1:162:A:ALA:HB2	15	0.49
(1,751)	1:32:A:GLN:HA	1:32:A:GLN:HB3	10	0.49
(1,737)	1:57:A:LYS:HB3	1:72:A:VAL:HG11	16	0.49
(1,692)	1:115:A:ALA:HB2	1:111:A:VAL:HG23	3	0.49
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	18	0.49
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	4	0.49
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	13	0.49
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	17	0.49
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG11	2	0.49
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG11	20	0.49
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD23	6	0.49
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD11	14	0.49
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	6	0.49
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	11	0.49
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG21	11	0.49
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB1	1	0.49
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB3	7	0.49
(1,407)	1:120:A:ILE:HG22	1:117:A:GLY:HA3	20	0.49
(1,309)	1:115:A:ALA:H	1:116:A:ALA:HB3	7	0.49
(1,297)	1:148:A:GLU:HB2	1:148:A:GLU:HG2	6	0.49
(1,286)	1:45:A:ILE:HG13	1:56:A:ILE:HG22	1	0.49
(1,244)	1:29:A:ILE:HD12	1:29:A:ILE:HG22	10	0.49
(1,237)	1:37:A:ILE:HG21	1:34:A:VAL:HA	14	0.49
(1,229)	1:119:A:VAL:HG13	1:116:A:ALA:HA	9	0.49
(1,205)	1:105:A:LEU:HB2	1:105:A:LEU:HD22	20	0.49
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	1	0.49
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	2	0.49
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	3	0.49
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	4	0.49
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	5	0.49
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	6	0.49
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	7	0.49
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	8	0.49
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	10	0.49
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	13	0.49
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	14	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	19	0.49
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	14	0.49
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG23	9	0.49
(1,94)	1:82:A:LYS:HA	1:82:A:LYS:HD2	10	0.49
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	16	0.49
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	18	0.49
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG12	5	0.49
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	19	0.49
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG22	1	0.48
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG23	11	0.48
(1,2252)	1:65:A:ASP:H	1:63:A:THR:HG22	17	0.48
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	13	0.48
(1,2236)	1:118:A:ARG:H	1:118:A:ARG:HB2	9	0.48
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG22	10	0.48
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	9	0.48
(1,2094)	1:96:A:PHE:H	1:94:A:GLU:HA	3	0.48
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	3	0.48
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG23	1	0.48
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG23	2	0.48
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG21	6	0.48
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG21	20	0.48
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG21	3	0.48
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG13	13	0.48
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG23	17	0.48
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	4	0.48
(1,1899)	1:83:A:ALA:H	1:73:A:ILE:HD11	12	0.48
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	6	0.48
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	20	0.48
(1,1835)	1:43:A:GLN:H	1:43:A:GLN:HB3	8	0.48
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	2	0.48
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	17	0.48
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	3	0.48
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	6	0.48
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	10	0.48
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD12	7	0.48
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD11	8	0.48
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD12	10	0.48
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	11	0.48
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	16	0.48
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD11	13	0.48
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	7	0.48
(1,1715)	1:37:A:ILE:H	1:37:A:ILE:HD13	3	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1715)	1:37:A:ILE:H	1:37:A:ILE:HD13	9	0.48
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	5	0.48
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	14	0.48
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	7	0.48
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	20	0.48
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB2	5	0.48
(1,1559)	1:37:A:ILE:HD13	1:37:A:ILE:HG23	17	0.48
(1,1556)	1:87:A:ILE:HG22	1:87:A:ILE:HG13	16	0.48
(1,1553)	1:87:A:ILE:HD12	1:29:A:ILE:HG23	15	0.48
(1,1546)	1:166:A:ALA:HB1	1:130:A:LEU:HD13	6	0.48
(1,1546)	1:166:A:ALA:HB1	1:130:A:LEU:HD12	16	0.48
(1,1535)	1:170:A:ILE:HD13	1:170:A:ILE:HG22	18	0.48
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG22	6	0.48
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG22	17	0.48
(1,1488)	1:45:A:ILE:HD13	1:45:A:ILE:HG22	7	0.48
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	1	0.48
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	3	0.48
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	17	0.48
(1,1441)	1:154:A:VAL:HG21	1:140:A:VAL:HA	9	0.48
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	1	0.48
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	2	0.48
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	3	0.48
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	4	0.48
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	5	0.48
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	6	0.48
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	16	0.48
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD12	5	0.48
(1,1426)	1:56:A:ILE:HD12	1:48:A:LEU:HB2	16	0.48
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG22	1	0.48
(1,1365)	1:48:A:LEU:HD23	1:86:A:ARG:HB3	7	0.48
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	4	0.48
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	12	0.48
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	14	0.48
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	18	0.48
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG22	8	0.48
(1,1335)	1:157:A:ILE:HD13	1:137:A:GLU:H	13	0.48
(1,1325)	1:145:A:THR:HG22	1:146:A:PRO:HB2	12	0.48
(1,1325)	1:145:A:THR:HG23	1:146:A:PRO:HB2	13	0.48
(1,1325)	1:145:A:THR:HG23	1:146:A:PRO:HB2	19	0.48
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG22	4	0.48
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD12	8	0.48
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	2	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	6	0.48
(1,1247)	1:58:A:ILE:HD11	1:58:A:ILE:HG23	2	0.48
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	9	0.48
(1,1181)	1:173:A:ILE:HD11	1:119:A:VAL:HA	16	0.48
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	1	0.48
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	3	0.48
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	6	0.48
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	7	0.48
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	10	0.48
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	16	0.48
(1,1146)	1:174:A:LEU:HD21	1:111:A:VAL:HA	6	0.48
(1,1146)	1:174:A:LEU:HD21	1:111:A:VAL:HA	8	0.48
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	17	0.48
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	2	0.48
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	8	0.48
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	9	0.48
(1,1015)	1:170:A:ILE:HD13	1:130:A:LEU:HD13	15	0.48
(1,1009)	1:160:A:PHE:HA	1:163:A:SER:HB2	17	0.48
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	16	0.48
(1,954)	1:119:A:VAL:HB	1:120:A:ILE:HD12	3	0.48
(1,944)	1:138:A:VAL:HG13	1:127:A:VAL:HA	10	0.48
(1,942)	1:153:A:ILE:HG22	1:108:A:HIS:HD2	13	0.48
(1,942)	1:153:A:ILE:HG22	1:108:A:HIS:HD2	20	0.48
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD21	15	0.48
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD22	17	0.48
(1,925)	1:107:A:THR:HA	1:27:A:VAL:HG13	20	0.48
(1,890)	1:45:A:ILE:HG23	1:46:A:LYS:HB2	11	0.48
(1,882)	1:133:A:LEU:HD22	1:133:A:LEU:HB2	2	0.48
(1,882)	1:133:A:LEU:HD22	1:133:A:LEU:HB2	14	0.48
(1,871)	1:136:A:ALA:HB1	1:162:A:ALA:HA	1	0.48
(1,867)	1:119:A:VAL:HG23	1:120:A:ILE:HD13	16	0.48
(1,856)	1:56:A:ILE:HD12	1:49:A:SER:HA	13	0.48
(1,830)	1:72:A:VAL:HG21	1:57:A:LYS:HE2	3	0.48
(1,820)	1:119:A:VAL:HG13	1:119:A:VAL:HG22	15	0.48
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	9	0.48
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	13	0.48
(1,774)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	20	0.48
(1,762)	1:135:A:ALA:HB3	1:162:A:ALA:HB1	13	0.48
(1,762)	1:135:A:ALA:HB1	1:162:A:ALA:HB3	18	0.48
(1,692)	1:115:A:ALA:HB2	1:111:A:VAL:HG21	5	0.48
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD11	3	0.48
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD12	11	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD13	13	0.48
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	3	0.48
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	6	0.48
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	9	0.48
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	18	0.48
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD13	15	0.48
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD11	1	0.48
(1,564)	1:71:A:VAL:HA	1:71:A:VAL:HG12	12	0.48
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG12	5	0.48
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD13	18	0.48
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD11	19	0.48
(1,495)	1:131:A:GLN:HA	1:131:A:GLN:HG2	16	0.48
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG12	2	0.48
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG21	1	0.48
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG23	4	0.48
(1,437)	1:130:A:LEU:HA	1:130:A:LEU:HD23	4	0.48
(1,409)	1:146:A:PRO:HB2	1:150:A:GLU:HA	14	0.48
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	20	0.48
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG22	2	0.48
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG23	9	0.48
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG22	14	0.48
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG23	20	0.48
(1,244)	1:29:A:ILE:HD13	1:29:A:ILE:HG21	9	0.48
(1,244)	1:29:A:ILE:HD11	1:29:A:ILE:HG23	11	0.48
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	11	0.48
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	12	0.48
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	15	0.48
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	17	0.48
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	20	0.48
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	14	0.48
(1,133)	1:165:A:MET:HG2	1:165:A:MET:HA	20	0.48
(1,94)	1:82:A:LYS:HA	1:82:A:LYS:HD2	7	0.48
(1,94)	1:82:A:LYS:HA	1:82:A:LYS:HD2	18	0.48
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	8	0.48
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	10	0.48
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG12	16	0.48
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	6	0.48
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	14	0.48
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	15	0.48
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	16	0.47
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	6	0.47
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG23	7	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG22	19	0.47
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	19	0.47
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB1	18	0.47
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB1	14	0.47
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG21	1	0.47
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG22	19	0.47
(1,2167)	1:80:A:GLN:HE21	1:80:A:GLN:HB2	5	0.47
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	15	0.47
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	20	0.47
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	10	0.47
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	1	0.47
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	6	0.47
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG22	5	0.47
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG21	13	0.47
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG12	10	0.47
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG22	18	0.47
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	1	0.47
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	10	0.47
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	12	0.47
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	11	0.47
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	12	0.47
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	13	0.47
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	20	0.47
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB3	10	0.47
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	1	0.47
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	20	0.47
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	2	0.47
(1,1715)	1:37:A:ILE:H	1:37:A:ILE:HD11	4	0.47
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	7	0.47
(1,1659)	1:178:A:LYS:H	1:177:A:VAL:HB	15	0.47
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	1	0.47
(1,1603)	1:134:A:THR:HG21	1:165:A:MET:HG3	6	0.47
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB2	20	0.47
(1,1582)	1:59:A:ALA:HB1	1:70:A:MET:HG3	2	0.47
(1,1582)	1:59:A:ALA:HB2	1:70:A:MET:HG3	4	0.47
(1,1582)	1:59:A:ALA:HB1	1:70:A:MET:HG3	12	0.47
(1,1582)	1:59:A:ALA:HB1	1:70:A:MET:HG3	13	0.47
(1,1556)	1:87:A:ILE:HG22	1:87:A:ILE:HG13	2	0.47
(1,1556)	1:87:A:ILE:HG22	1:87:A:ILE:HG13	5	0.47
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG22	5	0.47
(1,1546)	1:166:A:ALA:HB2	1:130:A:LEU:HD13	1	0.47
(1,1537)	1:91:A:LEU:HD22	1:96:A:PHE:HB2	18	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG21	7	0.47
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG23	3	0.47
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG22	16	0.47
(1,1488)	1:45:A:ILE:HD12	1:45:A:ILE:HG22	1	0.47
(1,1488)	1:45:A:ILE:HD12	1:45:A:ILE:HG23	2	0.47
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	10	0.47
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	20	0.47
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	2	0.47
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	20	0.47
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG22	7	0.47
(1,1325)	1:145:A:THR:HG23	1:146:A:PRO:HB2	10	0.47
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG13	9	0.47
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	11	0.47
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	11	0.47
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	9	0.47
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	18	0.47
(1,1126)	1:87:A:ILE:H	1:87:A:ILE:HD13	16	0.47
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	19	0.47
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD11	2	0.47
(1,1071)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	15	0.47
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	16	0.47
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	5	0.47
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	9	0.47
(1,1015)	1:170:A:ILE:HD11	1:130:A:LEU:HD13	17	0.47
(1,994)	1:18:A:MET:HA	1:18:A:MET:HG2	3	0.47
(1,990)	1:110:A:ARG:HD3	1:153:A:ILE:HD12	12	0.47
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	14	0.47
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG12	11	0.47
(1,949)	1:111:A:VAL:HG23	1:112:A:PRO:HD3	6	0.47
(1,941)	1:153:A:ILE:HG21	1:155:A:LYS:HA	1	0.47
(1,941)	1:153:A:ILE:HG22	1:155:A:LYS:HA	6	0.47
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD21	18	0.47
(1,929)	1:27:A:VAL:HA	1:27:A:VAL:HG21	1	0.47
(1,929)	1:27:A:VAL:HA	1:27:A:VAL:HG22	2	0.47
(1,929)	1:27:A:VAL:HA	1:27:A:VAL:HG22	13	0.47
(1,922)	1:88:A:TYR:HB2	1:103:A:VAL:HG23	20	0.47
(1,917)	1:74:A:THR:HG21	1:24:A:THR:HA	10	0.47
(1,782)	1:105:A:LEU:HD12	1:105:A:LEU:HB3	18	0.47
(1,775)	1:113:A:ALA:HB3	1:152:A:VAL:HG13	13	0.47
(1,774)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	14	0.47
(1,762)	1:135:A:ALA:HB1	1:162:A:ALA:HB1	1	0.47
(1,762)	1:135:A:ALA:HB3	1:162:A:ALA:HB2	8	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,762)	1:135:A:ALA:HB3	1:162:A:ALA:HB3	9	0.47
(1,721)	1:168:A:ARG:HA	1:168:A:ARG:HD2	1	0.47
(1,633)	1:100:A:LYS:HB2	1:100:A:LYS:HA	3	0.47
(1,633)	1:100:A:LYS:HB2	1:100:A:LYS:HA	8	0.47
(1,633)	1:100:A:LYS:HB2	1:100:A:LYS:HA	11	0.47
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	2	0.47
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	11	0.47
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD13	19	0.47
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	13	0.47
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD22	2	0.47
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD13	6	0.47
(1,520)	1:127:A:VAL:HG11	1:137:A:GLU:HA	10	0.47
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	15	0.47
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	18	0.47
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	1	0.47
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	2	0.47
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	5	0.47
(1,448)	1:158:A:GLY:HA3	1:156:A:ILE:HG22	16	0.47
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG13	6	0.47
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG23	13	0.47
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB2	9	0.47
(1,407)	1:120:A:ILE:HG21	1:117:A:GLY:HA3	19	0.47
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	11	0.47
(1,370)	1:154:A:VAL:HG22	1:119:A:VAL:HG21	11	0.47
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	5	0.47
(1,288)	1:111:A:VAL:HG22	1:174:A:LEU:HD21	16	0.47
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG22	15	0.47
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG21	7	0.47
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG21	10	0.47
(1,220)	1:74:A:THR:HG22	1:55:A:SER:HB2	17	0.47
(1,213)	1:36:A:ALA:HB1	1:37:A:ILE:HD11	5	0.47
(1,213)	1:36:A:ALA:HB3	1:37:A:ILE:HD13	6	0.47
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	18	0.47
(1,114)	1:52:A:ALA:HA	1:82:A:LYS:HD2	13	0.47
(1,94)	1:82:A:LYS:HA	1:82:A:LYS:HD2	6	0.47
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	1	0.47
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	2	0.47
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	5	0.47
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG12	11	0.47
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	4	0.47
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	3	0.46
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	20	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG21	5	0.46
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG23	20	0.46
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	16	0.46
(1,2245)	1:100:A:LYS:H	1:99:A:PRO:HA	2	0.46
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB3	13	0.46
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB3	11	0.46
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG21	7	0.46
(1,2172)	1:100:A:LYS:H	1:100:A:LYS:HD2	12	0.46
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	19	0.46
(1,2123)	1:179:A:GLN:HE21	1:179:A:GLN:HG2	5	0.46
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	11	0.46
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	20	0.46
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	8	0.46
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	1	0.46
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	4	0.46
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	13	0.46
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG23	4	0.46
(1,1984)	1:179:A:GLN:HE21	1:175:A:ALA:HB1	7	0.46
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	4	0.46
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	16	0.46
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	9	0.46
(1,1885)	1:155:A:LYS:H	1:139:A:VAL:HG13	12	0.46
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	12	0.46
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	13	0.46
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	8	0.46
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB2	3	0.46
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB1	7	0.46
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB3	8	0.46
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	17	0.46
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	14	0.46
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	15	0.46
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	17	0.46
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	3	0.46
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	6	0.46
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	8	0.46
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	17	0.46
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	19	0.46
(1,1767)	1:151:A:GLN:H	1:151:A:GLN:HG2	4	0.46
(1,1715)	1:37:A:ILE:H	1:37:A:ILE:HD13	6	0.46
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	18	0.46
(1,1658)	1:93:A:GLU:H	1:93:A:GLU:HB2	15	0.46
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	2	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	4	0.46
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	16	0.46
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD12	13	0.46
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB2	14	0.46
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD12	11	0.46
(1,1582)	1:59:A:ALA:HB3	1:70:A:MET:HG3	18	0.46
(1,1566)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	13	0.46
(1,1550)	1:178:A:LYS:HG3	1:178:A:LYS:HD2	20	0.46
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG21	14	0.46
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	17	0.46
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	12	0.46
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	15	0.46
(1,1441)	1:154:A:VAL:HG23	1:140:A:VAL:HA	14	0.46
(1,1441)	1:154:A:VAL:HG23	1:140:A:VAL:HA	18	0.46
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD13	1	0.46
(1,1386)	1:87:A:ILE:HD12	1:105:A:LEU:HD23	3	0.46
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD11	16	0.46
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG21	10	0.46
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG11	3	0.46
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	13	0.46
(1,1301)	1:105:A:LEU:HD12	1:88:A:TYR:HE1	19	0.46
(1,1281)	1:29:A:ILE:HD12	1:34:A:VAL:HA	8	0.46
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	7	0.46
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	8	0.46
(1,1181)	1:173:A:ILE:HD13	1:119:A:VAL:HA	18	0.46
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	2	0.46
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	4	0.46
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	10	0.46
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	17	0.46
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	20	0.46
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB3	8	0.46
(1,1111)	1:169:A:LYS:H	1:169:A:LYS:HG2	19	0.46
(1,1095)	1:103:A:VAL:H	1:102:A:GLU:HB2	10	0.46
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD12	10	0.46
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD13	12	0.46
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	5	0.46
(1,1071)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	10	0.46
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	7	0.46
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD12	11	0.46
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	16	0.46
(1,1016)	1:126:A:THR:HG21	1:173:A:ILE:HD13	12	0.46
(1,1012)	1:136:A:ALA:HA	1:162:A:ALA:HB1	1	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,999)	1:157:A:ILE:HG22	1:104:A:LYS:HA	12	0.46
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	11	0.46
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	8	0.46
(1,949)	1:111:A:VAL:HG23	1:112:A:PRO:HD3	1	0.46
(1,941)	1:153:A:ILE:HG23	1:155:A:LYS:HA	18	0.46
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD23	12	0.46
(1,929)	1:27:A:VAL:HA	1:27:A:VAL:HG23	3	0.46
(1,929)	1:27:A:VAL:HA	1:27:A:VAL:HG23	9	0.46
(1,929)	1:27:A:VAL:HA	1:27:A:VAL:HG21	10	0.46
(1,925)	1:107:A:THR:HA	1:27:A:VAL:HG11	12	0.46
(1,890)	1:45:A:ILE:HG21	1:46:A:LYS:HB2	3	0.46
(1,890)	1:45:A:ILE:HG21	1:46:A:LYS:HB2	9	0.46
(1,876)	1:109:A:ILE:HG23	1:107:A:THR:HG23	12	0.46
(1,871)	1:136:A:ALA:HB3	1:162:A:ALA:HA	12	0.46
(1,856)	1:56:A:ILE:HD11	1:49:A:SER:HA	4	0.46
(1,820)	1:119:A:VAL:HG12	1:119:A:VAL:HG21	19	0.46
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD13	3	0.46
(1,774)	1:150:A:GLU:HG2	1:113:A:ALA:HB2	13	0.46
(1,671)	1:116:A:ALA:HB2	1:140:A:VAL:HG21	16	0.46
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	7	0.46
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	15	0.46
(1,652)	1:94:A:GLU:HB3	1:94:A:GLU:HG2	13	0.46
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD12	4	0.46
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD13	9	0.46
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD11	13	0.46
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	16	0.46
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	19	0.46
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG22	11	0.46
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD23	14	0.46
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	10	0.46
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	3	0.46
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	5	0.46
(1,492)	1:103:A:VAL:HG12	1:103:A:VAL:HG23	9	0.46
(1,449)	1:71:A:VAL:H	1:71:A:VAL:HG21	17	0.46
(1,449)	1:71:A:VAL:H	1:71:A:VAL:HG22	19	0.46
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG11	3	0.46
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	5	0.46
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG21	15	0.46
(1,435)	1:100:A:LYS:H	1:100:A:LYS:HB3	13	0.46
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB1	4	0.46
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB1	10	0.46
(1,408)	1:120:A:ILE:HG21	1:117:A:GLY:HA2	9	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,400)	1:138:A:VAL:HG23	1:154:A:VAL:HG21	5	0.46
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	13	0.46
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	9	0.46
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG21	8	0.46
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG23	10	0.46
(1,313)	1:154:A:VAL:H	1:154:A:VAL:HG12	15	0.46
(1,294)	1:130:A:LEU:HD21	1:169:A:LYS:HB2	8	0.46
(1,288)	1:111:A:VAL:HG22	1:174:A:LEU:HD22	6	0.46
(1,288)	1:111:A:VAL:HG22	1:174:A:LEU:HD23	7	0.46
(1,286)	1:45:A:ILE:HG13	1:56:A:ILE:HG21	2	0.46
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	16	0.46
(1,210)	1:45:A:ILE:HG12	1:56:A:ILE:HG21	15	0.46
(1,201)	1:92:A:LYS:HG2	1:92:A:LYS:HB3	16	0.46
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	1	0.46
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	2	0.46
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	3	0.46
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	4	0.46
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	5	0.46
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	6	0.46
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	7	0.46
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	8	0.46
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	9	0.46
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	11	0.46
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	13	0.46
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	15	0.46
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	16	0.46
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	17	0.46
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	19	0.46
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG22	6	0.46
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	3	0.46
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	6	0.46
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	7	0.46
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	9	0.46
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	11	0.46
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	17	0.46
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	20	0.46
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	1	0.46
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	2	0.46
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	7	0.46
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	12	0.46
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	13	0.46
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	17	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	1	0.45
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	12	0.45
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	20	0.45
(1,2327)	1:140:A:VAL:HG21	2:4:B:G:H1'	17	0.45
(1,2327)	1:140:A:VAL:HG22	2:4:B:G:H1'	17	0.45
(1,2327)	1:140:A:VAL:HG23	2:4:B:G:H1'	17	0.45
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG22	3	0.45
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG22	4	0.45
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG23	12	0.45
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG23	13	0.45
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	6	0.45
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	8	0.45
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB1	15	0.45
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	11	0.45
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG23	12	0.45
(1,2123)	1:179:A:GLN:HE21	1:179:A:GLN:HG2	6	0.45
(1,2123)	1:179:A:GLN:HE21	1:179:A:GLN:HG2	8	0.45
(1,2123)	1:179:A:GLN:HE21	1:179:A:GLN:HG2	9	0.45
(1,2123)	1:179:A:GLN:HE21	1:179:A:GLN:HG2	10	0.45
(1,2123)	1:179:A:GLN:HE21	1:179:A:GLN:HG2	13	0.45
(1,2123)	1:179:A:GLN:HE21	1:179:A:GLN:HG2	16	0.45
(1,2123)	1:179:A:GLN:HE21	1:179:A:GLN:HG2	17	0.45
(1,2123)	1:179:A:GLN:HE21	1:179:A:GLN:HG2	18	0.45
(1,2123)	1:179:A:GLN:HE21	1:179:A:GLN:HG2	19	0.45
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	18	0.45
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	13	0.45
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	3	0.45
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	7	0.45
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	18	0.45
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	16	0.45
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	18	0.45
(1,2033)	1:116:A:ALA:H	1:152:A:VAL:HG21	16	0.45
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG11	11	0.45
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	1	0.45
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG22	16	0.45
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB2	5	0.45
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	2	0.45
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	3	0.45
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	7	0.45
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	10	0.45
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	12	0.45
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB3	6	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB1	4	0.45
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	13	0.45
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	14	0.45
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	16	0.45
(1,1787)	1:38:A:ILE:H	1:38:A:ILE:HD12	5	0.45
(1,1778)	1:92:A:LYS:H	1:91:A:LEU:HD21	17	0.45
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	10	0.45
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	3	0.45
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	5	0.45
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	6	0.45
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	9	0.45
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	10	0.45
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	10	0.45
(1,1601)	1:134:A:THR:HG21	1:165:A:MET:HG2	19	0.45
(1,1593)	1:58:A:ILE:HD13	1:71:A:VAL:HA	8	0.45
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB1	7	0.45
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB2	16	0.45
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	3	0.45
(1,1585)	1:177:A:VAL:HG21	1:118:A:ARG:HD3	17	0.45
(1,1582)	1:59:A:ALA:HB1	1:70:A:MET:HG3	19	0.45
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG21	2	0.45
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG23	8	0.45
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG22	16	0.45
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG23	4	0.45
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG23	12	0.45
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG22	15	0.45
(1,1495)	1:174:A:LEU:HD21	1:118:A:ARG:HG3	4	0.45
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	11	0.45
(1,1466)	1:146:A:PRO:HB2	1:146:A:PRO:HD3	18	0.45
(1,1391)	1:29:A:ILE:H	1:29:A:ILE:HG21	17	0.45
(1,1391)	1:29:A:ILE:H	1:29:A:ILE:HG22	19	0.45
(1,1378)	1:174:A:LEU:HA	1:177:A:VAL:HG11	13	0.45
(1,1360)	1:130:A:LEU:HD23	1:166:A:ALA:HA	19	0.45
(1,1325)	1:145:A:THR:HG23	1:146:A:PRO:HB2	17	0.45
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG13	10	0.45
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	7	0.45
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	14	0.45
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	15	0.45
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	16	0.45
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	18	0.45
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	19	0.45
(1,1312)	1:119:A:VAL:HA	1:126:A:THR:HG23	14	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1308)	1:154:A:VAL:HG12	1:153:A:ILE:HA	10	0.45
(1,1301)	1:105:A:LEU:HD12	1:88:A:TYR:HE1	11	0.45
(1,1300)	1:105:A:LEU:HD13	1:29:A:ILE:HG21	16	0.45
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG22	13	0.45
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG21	18	0.45
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	14	0.45
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	1	0.45
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	3	0.45
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	4	0.45
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	5	0.45
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	18	0.45
(1,1256)	1:111:A:VAL:HG21	1:111:A:VAL:HA	4	0.45
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD13	16	0.45
(1,1181)	1:173:A:ILE:HD13	1:119:A:VAL:HA	14	0.45
(1,1173)	1:45:A:ILE:HA	1:45:A:ILE:HG12	11	0.45
(1,1173)	1:45:A:ILE:HA	1:45:A:ILE:HG12	14	0.45
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	3	0.45
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	5	0.45
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	6	0.45
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	7	0.45
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	8	0.45
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	14	0.45
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	15	0.45
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	16	0.45
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB1	16	0.45
(1,1090)	1:58:A:ILE:H	1:58:A:ILE:HD11	13	0.45
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD12	17	0.45
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	1	0.45
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	4	0.45
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	7	0.45
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	13	0.45
(1,1059)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	19	0.45
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	2	0.45
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	6	0.45
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	15	0.45
(1,1016)	1:126:A:THR:HG21	1:173:A:ILE:HD13	1	0.45
(1,1009)	1:160:A:PHE:HA	1:163:A:SER:HB2	16	0.45
(1,1006)	1:83:A:ALA:HB2	1:73:A:ILE:HB	2	0.45
(1,994)	1:18:A:MET:HA	1:18:A:MET:HG2	19	0.45
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	17	0.45
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	20	0.45
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	2	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	3	0.45
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG11	15	0.45
(1,944)	1:138:A:VAL:HG12	1:127:A:VAL:HA	9	0.45
(1,944)	1:138:A:VAL:HG13	1:127:A:VAL:HA	20	0.45
(1,938)	1:24:A:THR:HG23	1:26:A:HIS:HD2	10	0.45
(1,896)	1:170:A:ILE:HG21	1:171:A:ARG:HA	3	0.45
(1,896)	1:170:A:ILE:HG23	1:171:A:ARG:HA	11	0.45
(1,886)	1:27:A:VAL:HG11	1:73:A:ILE:HG23	10	0.45
(1,876)	1:109:A:ILE:HG21	1:107:A:THR:HG23	7	0.45
(1,874)	1:104:A:LYS:HE2	1:104:A:LYS:HB3	18	0.45
(1,784)	1:34:A:VAL:HG12	1:58:A:ILE:HD13	7	0.45
(1,775)	1:113:A:ALA:HB1	1:152:A:VAL:HG13	2	0.45
(1,775)	1:113:A:ALA:HB1	1:152:A:VAL:HG13	14	0.45
(1,759)	1:79:A:ALA:HB3	1:76:A:PRO:HG3	7	0.45
(1,748)	1:62:A:GLU:HG2	1:63:A:THR:HG23	6	0.45
(1,742)	1:156:A:ILE:HD11	1:166:A:ALA:HB2	10	0.45
(1,709)	1:86:A:ARG:HB2	1:48:A:LEU:HD12	8	0.45
(1,709)	1:86:A:ARG:HB2	1:48:A:LEU:HD13	10	0.45
(1,692)	1:115:A:ALA:HB2	1:111:A:VAL:HG23	8	0.45
(1,671)	1:116:A:ALA:HB2	1:140:A:VAL:HG23	3	0.45
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD13	8	0.45
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD11	14	0.45
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD12	17	0.45
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD12	13	0.45
(1,633)	1:100:A:LYS:HB2	1:100:A:LYS:HA	2	0.45
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	5	0.45
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	10	0.45
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	16	0.45
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	17	0.45
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	14	0.45
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	20	0.45
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD23	7	0.45
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD11	7	0.45
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	5	0.45
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	18	0.45
(1,518)	1:142:A:ARG:HA	1:142:A:ARG:HB2	3	0.45
(1,518)	1:142:A:ARG:HA	1:142:A:ARG:HB2	15	0.45
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	7	0.45
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	11	0.45
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	20	0.45
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD11	1	0.45
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD11	17	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	3	0.45
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	4	0.45
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	10	0.45
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	6	0.45
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG11	9	0.45
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG23	17	0.45
(1,409)	1:146:A:PRO:HB2	1:150:A:GLU:HA	2	0.45
(1,408)	1:120:A:ILE:HG21	1:117:A:GLY:HA2	4	0.45
(1,405)	1:102:A:GLU:H	1:101:A:GLU:HB3	10	0.45
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	13	0.45
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG23	14	0.45
(1,336)	1:23:A:GLU:HA	1:23:A:GLU:HG2	16	0.45
(1,294)	1:130:A:LEU:HD21	1:169:A:LYS:HB2	16	0.45
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	8	0.45
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	15	0.45
(1,288)	1:111:A:VAL:HG22	1:174:A:LEU:HD22	12	0.45
(1,286)	1:45:A:ILE:HG13	1:56:A:ILE:HG21	6	0.45
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	1	0.45
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	5	0.45
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	6	0.45
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	8	0.45
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	9	0.45
(1,220)	1:74:A:THR:HG23	1:55:A:SER:HB2	14	0.45
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	13	0.45
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	17	0.45
(1,134)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	20	0.45
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG22	3	0.45
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG22	4	0.45
(1,92)	1:48:A:LEU:HA	1:48:A:LEU:HG	9	0.45
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	4	0.45
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	19	0.45
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG13	8	0.45
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	3	0.45
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	8	0.45
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	10	0.45
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	11	0.45
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	18	0.45
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	6	0.44
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	7	0.44
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	7	0.44
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	17	0.44
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG23	7	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG23	6	0.44
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG22	14	0.44
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	1	0.44
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	5	0.44
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	12	0.44
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	13	0.44
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	18	0.44
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	19	0.44
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	20	0.44
(1,2239)	1:25:A:VAL:H	1:80:A:GLN:HB3	9	0.44
(1,2123)	1:179:A:GLN:HE21	1:179:A:GLN:HG2	3	0.44
(1,2123)	1:179:A:GLN:HE21	1:179:A:GLN:HG2	11	0.44
(1,2123)	1:179:A:GLN:HE21	1:179:A:GLN:HG2	14	0.44
(1,2123)	1:179:A:GLN:HE21	1:179:A:GLN:HG2	15	0.44
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	12	0.44
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	2	0.44
(1,2082)	1:151:A:GLN:H	1:152:A:VAL:H	5	0.44
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	20	0.44
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	11	0.44
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	2	0.44
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	6	0.44
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	7	0.44
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	2	0.44
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	5	0.44
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	9	0.44
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG21	20	0.44
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG11	3	0.44
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG22	11	0.44
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	19	0.44
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	17	0.44
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	19	0.44
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	20	0.44
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD13	12	0.44
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	2	0.44
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	8	0.44
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	9	0.44
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	11	0.44
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	12	0.44
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	17	0.44
(1,1658)	1:93:A:GLU:H	1:93:A:GLU:HB2	12	0.44
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	11	0.44
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	12	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	14	0.44
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	15	0.44
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	17	0.44
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	19	0.44
(1,1631)	1:138:A:VAL:H	1:138:A:VAL:HG13	6	0.44
(1,1603)	1:134:A:THR:HG23	1:165:A:MET:HG3	10	0.44
(1,1603)	1:134:A:THR:HG23	1:165:A:MET:HG3	20	0.44
(1,1585)	1:177:A:VAL:HG22	1:118:A:ARG:HD3	8	0.44
(1,1582)	1:59:A:ALA:HB2	1:70:A:MET:HG3	9	0.44
(1,1566)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	18	0.44
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG21	12	0.44
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG22	14	0.44
(1,1546)	1:166:A:ALA:HB3	1:130:A:LEU:HD13	2	0.44
(1,1537)	1:91:A:LEU:HD23	1:96:A:PHE:HB2	1	0.44
(1,1537)	1:91:A:LEU:HD22	1:96:A:PHE:HB2	13	0.44
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG22	8	0.44
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG22	11	0.44
(1,1495)	1:174:A:LEU:HD21	1:118:A:ARG:HG3	1	0.44
(1,1495)	1:174:A:LEU:HD21	1:118:A:ARG:HG3	2	0.44
(1,1488)	1:45:A:ILE:HD12	1:45:A:ILE:HG21	8	0.44
(1,1386)	1:87:A:ILE:HD12	1:105:A:LEU:HD22	7	0.44
(1,1386)	1:87:A:ILE:HD12	1:105:A:LEU:HD21	8	0.44
(1,1366)	1:48:A:LEU:HD22	1:86:A:ARG:HD2	2	0.44
(1,1365)	1:48:A:LEU:HD22	1:86:A:ARG:HB3	2	0.44
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG22	6	0.44
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG11	4	0.44
(1,1318)	1:147:A:ASP:H	1:152:A:VAL:HG12	5	0.44
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	1	0.44
(1,1312)	1:119:A:VAL:HA	1:126:A:THR:HG23	4	0.44
(1,1308)	1:154:A:VAL:HG11	1:153:A:ILE:HA	4	0.44
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG23	6	0.44
(1,1281)	1:29:A:ILE:HD13	1:34:A:VAL:HA	6	0.44
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	9	0.44
(1,1269)	1:45:A:ILE:H	1:45:A:ILE:HG12	10	0.44
(1,1256)	1:111:A:VAL:HG22	1:111:A:VAL:HA	9	0.44
(1,1256)	1:111:A:VAL:HG21	1:111:A:VAL:HA	10	0.44
(1,1247)	1:58:A:ILE:HD11	1:58:A:ILE:HG23	3	0.44
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	15	0.44
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	1	0.44
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	11	0.44
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	13	0.44
(1,1137)	1:110:A:ARG:HA	1:110:A:ARG:HG3	19	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB1	9	0.44
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB1	18	0.44
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD12	8	0.44
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	3	0.44
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	8	0.44
(1,1064)	1:97:A:PHE:HE1	1:91:A:LEU:HD12	18	0.44
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD12	19	0.44
(1,1012)	1:136:A:ALA:HA	1:162:A:ALA:HB3	18	0.44
(1,999)	1:157:A:ILE:HG22	1:104:A:LYS:HA	8	0.44
(1,994)	1:18:A:MET:HA	1:18:A:MET:HG2	14	0.44
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	10	0.44
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	1	0.44
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	4	0.44
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	6	0.44
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	9	0.44
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	10	0.44
(1,942)	1:153:A:ILE:HG21	1:108:A:HIS:HD2	16	0.44
(1,941)	1:153:A:ILE:HG21	1:155:A:LYS:HA	15	0.44
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD21	13	0.44
(1,929)	1:27:A:VAL:HA	1:27:A:VAL:HG22	4	0.44
(1,929)	1:27:A:VAL:HA	1:27:A:VAL:HG23	6	0.44
(1,929)	1:27:A:VAL:HA	1:27:A:VAL:HG22	14	0.44
(1,896)	1:170:A:ILE:HG23	1:171:A:ARG:HA	4	0.44
(1,896)	1:170:A:ILE:HG22	1:171:A:ARG:HA	14	0.44
(1,889)	1:96:A:PHE:HE1	1:36:A:ALA:HB2	5	0.44
(1,871)	1:136:A:ALA:HB1	1:162:A:ALA:HA	4	0.44
(1,863)	1:87:A:ILE:HG23	1:84:A:GLN:HA	4	0.44
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG21	10	0.44
(1,775)	1:113:A:ALA:HB1	1:152:A:VAL:HG12	15	0.44
(1,774)	1:113:A:ALA:HB3	1:150:A:GLU:HG3	12	0.44
(1,774)	1:150:A:GLU:HG2	1:113:A:ALA:HB2	19	0.44
(1,762)	1:135:A:ALA:HB3	1:162:A:ALA:HB2	6	0.44
(1,742)	1:156:A:ILE:HD12	1:166:A:ALA:HB3	14	0.44
(1,677)	1:94:A:GLU:HG2	1:90:A:LYS:HG2	19	0.44
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD12	20	0.44
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	7	0.44
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	12	0.44
(1,633)	1:100:A:LYS:HB2	1:100:A:LYS:HA	10	0.44
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	20	0.44
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD13	16	0.44
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD12	5	0.44
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD13	9	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	14	0.44
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	1	0.44
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	12	0.44
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	13	0.44
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	16	0.44
(1,492)	1:103:A:VAL:HG12	1:103:A:VAL:HG22	3	0.44
(1,443)	1:26:A:HIS:H	1:27:A:VAL:HG11	4	0.44
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	1	0.44
(1,424)	1:57:A:LYS:HA	1:57:A:LYS:HD2	6	0.44
(1,408)	1:120:A:ILE:HG23	1:117:A:GLY:HA2	12	0.44
(1,400)	1:138:A:VAL:HG21	1:154:A:VAL:HG22	9	0.44
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	11	0.44
(1,392)	1:74:A:THR:H	1:73:A:ILE:HD13	7	0.44
(1,381)	1:101:A:GLU:HB3	1:101:A:GLU:HA	14	0.44
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG22	3	0.44
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG22	4	0.44
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG21	18	0.44
(1,336)	1:23:A:GLU:HA	1:23:A:GLU:HG2	1	0.44
(1,336)	1:23:A:GLU:HA	1:23:A:GLU:HG2	4	0.44
(1,336)	1:23:A:GLU:HA	1:23:A:GLU:HG2	7	0.44
(1,336)	1:23:A:GLU:HA	1:23:A:GLU:HG2	10	0.44
(1,336)	1:23:A:GLU:HA	1:23:A:GLU:HG2	12	0.44
(1,336)	1:23:A:GLU:HA	1:23:A:GLU:HG2	13	0.44
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	6	0.44
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG22	18	0.44
(1,296)	1:138:A:VAL:HG12	1:138:A:VAL:HG23	14	0.44
(1,294)	1:130:A:LEU:HD21	1:169:A:LYS:HB2	4	0.44
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	19	0.44
(1,288)	1:111:A:VAL:HG23	1:174:A:LEU:HD23	1	0.44
(1,286)	1:45:A:ILE:HG13	1:56:A:ILE:HG23	3	0.44
(1,286)	1:45:A:ILE:HG13	1:56:A:ILE:HG21	4	0.44
(1,286)	1:45:A:ILE:HG13	1:56:A:ILE:HG23	10	0.44
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	11	0.44
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	4	0.44
(1,226)	1:48:A:LEU:HD13	1:87:A:ILE:HA	8	0.44
(1,226)	1:48:A:LEU:HD11	1:87:A:ILE:HA	10	0.44
(1,220)	1:74:A:THR:HG23	1:55:A:SER:HB2	15	0.44
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	2	0.44
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	3	0.44
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	18	0.44
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	20	0.44
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	16	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG21	1	0.44
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	12	0.44
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	16	0.44
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG12	4	0.44
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG11	7	0.44
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	5	0.44
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	20	0.44
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	8	0.43
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	9	0.43
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	13	0.43
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	15	0.43
(1,2327)	1:140:A:VAL:HG21	2:4:B:G:H1'	6	0.43
(1,2327)	1:140:A:VAL:HG22	2:4:B:G:H1'	6	0.43
(1,2327)	1:140:A:VAL:HG23	2:4:B:G:H1'	6	0.43
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	4	0.43
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG22	18	0.43
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG22	2	0.43
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG23	16	0.43
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	2	0.43
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	3	0.43
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	4	0.43
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	7	0.43
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	9	0.43
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	11	0.43
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	14	0.43
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	15	0.43
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	17	0.43
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB1	2	0.43
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB1	8	0.43
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB1	9	0.43
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB1	10	0.43
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB2	12	0.43
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB1	13	0.43
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB3	15	0.43
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB3	19	0.43
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	6	0.43
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG22	17	0.43
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	13	0.43
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	11	0.43
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	14	0.43
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	2	0.43
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	4	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	5	0.43
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	19	0.43
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	8	0.43
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG11	18	0.43
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	6	0.43
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	12	0.43
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	17	0.43
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG11	2	0.43
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	8	0.43
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	15	0.43
(1,1873)	1:113:A:ALA:H	1:151:A:GLN:H	11	0.43
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	14	0.43
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG21	2	0.43
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	12	0.43
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	20	0.43
(1,1821)	1:165:A:MET:H	1:164:A:GLN:HG2	16	0.43
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB2	2	0.43
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB2	17	0.43
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB1	18	0.43
(1,1761)	1:73:A:ILE:H	1:73:A:ILE:HD13	16	0.43
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	10	0.43
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	1	0.43
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	3	0.43
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	4	0.43
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	5	0.43
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	6	0.43
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	16	0.43
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	18	0.43
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	8	0.43
(1,1656)	1:178:A:LYS:H	1:177:A:VAL:HA	18	0.43
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	20	0.43
(1,1603)	1:134:A:THR:HG21	1:165:A:MET:HG3	11	0.43
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB2	18	0.43
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	1	0.43
(1,1585)	1:177:A:VAL:HG23	1:118:A:ARG:HD3	13	0.43
(1,1582)	1:59:A:ALA:HB1	1:70:A:MET:HG3	3	0.43
(1,1574)	1:103:A:VAL:HG12	1:92:A:LYS:HA	12	0.43
(1,1553)	1:87:A:ILE:HD12	1:29:A:ILE:HG23	14	0.43
(1,1553)	1:87:A:ILE:HD12	1:29:A:ILE:HG22	19	0.43
(1,1533)	1:120:A:ILE:HG22	1:120:A:ILE:HA	16	0.43
(1,1530)	1:174:A:LEU:HD23	1:177:A:VAL:HG12	9	0.43
(1,1530)	1:174:A:LEU:HD21	1:177:A:VAL:HG13	10	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG23	7	0.43
(1,1501)	1:59:A:ALA:HB2	1:72:A:VAL:HG23	14	0.43
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	12	0.43
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	16	0.43
(1,1440)	1:103:A:VAL:H	1:103:A:VAL:HB	15	0.43
(1,1391)	1:29:A:ILE:H	1:29:A:ILE:HG21	11	0.43
(1,1391)	1:29:A:ILE:H	1:29:A:ILE:HG23	14	0.43
(1,1391)	1:29:A:ILE:H	1:29:A:ILE:HG23	15	0.43
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG21	5	0.43
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG23	7	0.43
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	19	0.43
(1,1325)	1:145:A:THR:HG22	1:146:A:PRO:HB2	20	0.43
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	2	0.43
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	5	0.43
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	6	0.43
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	8	0.43
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	10	0.43
(1,1308)	1:154:A:VAL:HG12	1:153:A:ILE:HA	1	0.43
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG23	20	0.43
(1,1289)	1:31:A:ALA:HB3	1:67:A:LYS:HA	17	0.43
(1,1284)	1:29:A:ILE:HD11	1:30:A:PRO:HD2	18	0.43
(1,1277)	1:169:A:LYS:HB2	1:130:A:LEU:HD12	9	0.43
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD11	7	0.43
(1,1256)	1:111:A:VAL:HG23	1:111:A:VAL:HA	3	0.43
(1,1256)	1:111:A:VAL:HG23	1:111:A:VAL:HA	8	0.43
(1,1242)	1:25:A:VAL:HG12	1:26:A:HIS:HA	8	0.43
(1,1241)	1:34:A:VAL:HG13	1:37:A:ILE:HB	3	0.43
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD13	11	0.43
(1,1222)	1:48:A:LEU:HG	1:48:A:LEU:HB2	5	0.43
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	19	0.43
(1,1173)	1:45:A:ILE:HA	1:45:A:ILE:HG12	18	0.43
(1,1151)	1:58:A:ILE:HA	1:58:A:ILE:HG13	18	0.43
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	2	0.43
(1,1071)	1:105:A:LEU:HD12	1:88:A:TYR:HE1	19	0.43
(1,1059)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	13	0.43
(1,1006)	1:83:A:ALA:HB1	1:73:A:ILE:HB	4	0.43
(1,994)	1:18:A:MET:HA	1:18:A:MET:HG2	10	0.43
(1,992)	1:142:A:ARG:HD2	1:142:A:ARG:HB2	20	0.43
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	19	0.43
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	7	0.43
(1,954)	1:119:A:VAL:HB	1:120:A:ILE:HD12	4	0.43
(1,944)	1:138:A:VAL:HG12	1:127:A:VAL:HA	11	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD21	2	0.43
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD23	5	0.43
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD21	11	0.43
(1,917)	1:74:A:THR:HG21	1:24:A:THR:HA	8	0.43
(1,896)	1:170:A:ILE:HG21	1:171:A:ARG:HA	1	0.43
(1,896)	1:170:A:ILE:HG23	1:171:A:ARG:HA	10	0.43
(1,890)	1:45:A:ILE:HG21	1:46:A:LYS:HB2	10	0.43
(1,886)	1:27:A:VAL:HG12	1:73:A:ILE:HG23	1	0.43
(1,876)	1:109:A:ILE:HG23	1:107:A:THR:HG22	14	0.43
(1,856)	1:56:A:ILE:HD12	1:49:A:SER:HA	1	0.43
(1,840)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	2	0.43
(1,840)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	9	0.43
(1,797)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	8	0.43
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD11	8	0.43
(1,775)	1:113:A:ALA:HB3	1:152:A:VAL:HG13	19	0.43
(1,774)	1:113:A:ALA:HB3	1:150:A:GLU:HG3	2	0.43
(1,748)	1:62:A:GLU:HG2	1:63:A:THR:HG23	11	0.43
(1,684)	1:25:A:VAL:HG12	1:107:A:THR:HG21	2	0.43
(1,684)	1:25:A:VAL:HG11	1:107:A:THR:HG21	9	0.43
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD12	1	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	1	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	2	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	3	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	4	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	5	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	6	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	8	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	9	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	10	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	11	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	13	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	14	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	15	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	16	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	17	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	18	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	19	0.43
(1,645)	1:46:A:LYS:HB2	1:46:A:LYS:HG2	20	0.43
(1,633)	1:100:A:LYS:HB2	1:100:A:LYS:HA	13	0.43
(1,633)	1:100:A:LYS:HB2	1:100:A:LYS:HA	17	0.43
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD11	11	0.43
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD13	17	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD11	8	0.43
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	13	0.43
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	20	0.43
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD21	3	0.43
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD13	8	0.43
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	16	0.43
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	2	0.43
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	4	0.43
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	8	0.43
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	10	0.43
(1,498)	1:147:A:ASP:HB3	1:147:A:ASP:HA	11	0.43
(1,498)	1:147:A:ASP:HB3	1:147:A:ASP:HA	14	0.43
(1,435)	1:100:A:LYS:H	1:100:A:LYS:HB3	17	0.43
(1,409)	1:146:A:PRO:HB2	1:150:A:GLU:HA	8	0.43
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	12	0.43
(1,381)	1:101:A:GLU:HB3	1:101:A:GLU:HA	16	0.43
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG21	11	0.43
(1,336)	1:23:A:GLU:HA	1:23:A:GLU:HG2	20	0.43
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG13	10	0.43
(1,294)	1:130:A:LEU:HD22	1:169:A:LYS:HB2	20	0.43
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG22	11	0.43
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG23	18	0.43
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG22	19	0.43
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	2	0.43
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	3	0.43
(1,238)	1:48:A:LEU:HD21	1:83:A:ALA:HB1	14	0.43
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG22	6	0.43
(1,209)	1:52:A:ALA:HB2	1:54:A:ALA:HB2	12	0.43
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	11	0.43
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	13	0.43
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	15	0.43
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	16	0.43
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	18	0.43
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	20	0.43
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	11	0.43
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	14	0.43
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	20	0.43
(1,116)	1:80:A:GLN:HA	1:83:A:ALA:HB1	1	0.43
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG13	9	0.43
(1,7)	1:57:A:LYS:H	1:57:A:LYS:HB3	9	0.43
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	11	0.42
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	17	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	18	0.42
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	19	0.42
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	13	0.42
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG22	8	0.42
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG23	8	0.42
(1,2251)	1:65:A:ASP:H	1:64:A:PRO:HB3	10	0.42
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB2	4	0.42
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB1	14	0.42
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB3	17	0.42
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	10	0.42
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	4	0.42
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	3	0.42
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	9	0.42
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	16	0.42
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	20	0.42
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	1	0.42
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	3	0.42
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	8	0.42
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	15	0.42
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	8	0.42
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	11	0.42
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	15	0.42
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	11	0.42
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	14	0.42
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	17	0.42
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	19	0.42
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	1	0.42
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	3	0.42
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	7	0.42
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG11	8	0.42
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG13	17	0.42
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	8	0.42
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	19	0.42
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG21	15	0.42
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG12	6	0.42
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB3	10	0.42
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	6	0.42
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	13	0.42
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	19	0.42
(1,1920)	1:55:A:SER:H	1:56:A:ILE:H	11	0.42
(1,1871)	1:157:A:ILE:H	1:156:A:ILE:HG12	4	0.42
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG22	6	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	11	0.42
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	14	0.42
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB3	1	0.42
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB1	10	0.42
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB2	3	0.42
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	10	0.42
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	7	0.42
(1,1764)	1:51:A:PHE:H	1:50:A:ARG:HB2	7	0.42
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	20	0.42
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	1	0.42
(1,1664)	1:101:A:GLU:H	1:100:A:LYS:HG2	11	0.42
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	19	0.42
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD13	12	0.42
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	3	0.42
(1,1599)	1:127:A:VAL:HA	1:138:A:VAL:HB	15	0.42
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB2	12	0.42
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB2	15	0.42
(1,1559)	1:37:A:ILE:HD11	1:37:A:ILE:HG22	6	0.42
(1,1553)	1:87:A:ILE:HD13	1:29:A:ILE:HG21	12	0.42
(1,1546)	1:166:A:ALA:HB2	1:130:A:LEU:HD13	12	0.42
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG22	18	0.42
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	3	0.42
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	4	0.42
(1,1495)	1:174:A:LEU:HD23	1:118:A:ARG:HG3	3	0.42
(1,1495)	1:174:A:LEU:HD23	1:118:A:ARG:HG3	6	0.42
(1,1495)	1:174:A:LEU:HD23	1:118:A:ARG:HG3	8	0.42
(1,1495)	1:174:A:LEU:HD23	1:118:A:ARG:HG3	12	0.42
(1,1495)	1:174:A:LEU:HD23	1:118:A:ARG:HG3	19	0.42
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	1	0.42
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	2	0.42
(1,1441)	1:154:A:VAL:HG22	1:140:A:VAL:HA	2	0.42
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG21	2	0.42
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG23	6	0.42
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG21	9	0.42
(1,1366)	1:48:A:LEU:HD22	1:86:A:ARG:HD2	10	0.42
(1,1357)	1:53:A:SER:HB2	1:54:A:ALA:H	15	0.42
(1,1343)	1:110:A:ARG:HD3	1:110:A:ARG:HB3	12	0.42
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	12	0.42
(1,1308)	1:154:A:VAL:HG12	1:153:A:ILE:HA	5	0.42
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG21	9	0.42
(1,1281)	1:29:A:ILE:HD11	1:34:A:VAL:HA	1	0.42
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	1	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1273)	1:96:A:PHE:HZ	1:94:A:GLU:HG2	3	0.42
(1,1273)	1:96:A:PHE:HZ	1:94:A:GLU:HG2	6	0.42
(1,1273)	1:96:A:PHE:HZ	1:94:A:GLU:HG2	9	0.42
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	11	0.42
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	16	0.42
(1,1256)	1:111:A:VAL:HG21	1:111:A:VAL:HA	2	0.42
(1,1256)	1:111:A:VAL:HG21	1:111:A:VAL:HA	5	0.42
(1,1256)	1:111:A:VAL:HG23	1:111:A:VAL:HA	6	0.42
(1,1242)	1:25:A:VAL:HG12	1:26:A:HIS:HA	5	0.42
(1,1241)	1:34:A:VAL:HG13	1:37:A:ILE:HB	4	0.42
(1,1222)	1:48:A:LEU:HG	1:48:A:LEU:HB2	2	0.42
(1,1222)	1:48:A:LEU:HG	1:48:A:LEU:HB2	3	0.42
(1,1222)	1:48:A:LEU:HG	1:48:A:LEU:HB2	7	0.42
(1,1222)	1:48:A:LEU:HG	1:48:A:LEU:HB2	8	0.42
(1,1222)	1:48:A:LEU:HG	1:48:A:LEU:HB2	10	0.42
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	7	0.42
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	8	0.42
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	9	0.42
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	13	0.42
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB1	17	0.42
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	6	0.42
(1,1071)	1:105:A:LEU:HD12	1:88:A:TYR:HE1	11	0.42
(1,1044)	1:96:A:PHE:HB2	1:97:A:PHE:HD1	3	0.42
(1,1031)	1:68:A:VAL:HG13	1:28:A:PHE:HD1	10	0.42
(1,1006)	1:83:A:ALA:HB1	1:73:A:ILE:HB	6	0.42
(1,999)	1:157:A:ILE:HG21	1:104:A:LYS:HA	10	0.42
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	15	0.42
(1,983)	1:48:A:LEU:HD23	1:83:A:ALA:HA	2	0.42
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG11	17	0.42
(1,941)	1:153:A:ILE:HG21	1:155:A:LYS:HA	7	0.42
(1,941)	1:153:A:ILE:HG22	1:155:A:LYS:HA	17	0.42
(1,922)	1:88:A:TYR:HB2	1:103:A:VAL:HG22	15	0.42
(1,917)	1:74:A:THR:HG21	1:24:A:THR:HA	6	0.42
(1,917)	1:74:A:THR:HG22	1:24:A:THR:HA	7	0.42
(1,901)	1:90:A:LYS:HE2	1:94:A:GLU:HG3	16	0.42
(1,890)	1:45:A:ILE:HG22	1:46:A:LYS:HB2	15	0.42
(1,886)	1:27:A:VAL:HG11	1:73:A:ILE:HG23	3	0.42
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG22	2	0.42
(1,840)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	8	0.42
(1,797)	1:48:A:LEU:HD11	1:51:A:PHE:HD1	3	0.42
(1,774)	1:113:A:ALA:HB2	1:150:A:GLU:HG3	7	0.42
(1,774)	1:150:A:GLU:HG2	1:113:A:ALA:HB2	17	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,759)	1:79:A:ALA:HB2	1:76:A:PRO:HG3	6	0.42
(1,711)	1:178:A:LYS:HG2	1:178:A:LYS:HE2	20	0.42
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	19	0.42
(1,644)	1:102:A:GLU:HB2	1:102:A:GLU:HA	17	0.42
(1,644)	1:102:A:GLU:HB2	1:102:A:GLU:HA	18	0.42
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD13	12	0.42
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	4	0.42
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	18	0.42
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	19	0.42
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	1	0.42
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	2	0.42
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	4	0.42
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	6	0.42
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	7	0.42
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	8	0.42
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	10	0.42
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	11	0.42
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	12	0.42
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	13	0.42
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	14	0.42
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	15	0.42
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	16	0.42
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	17	0.42
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	18	0.42
(1,498)	1:147:A:ASP:HB3	1:147:A:ASP:HA	1	0.42
(1,498)	1:147:A:ASP:HB3	1:147:A:ASP:HA	2	0.42
(1,498)	1:147:A:ASP:HB3	1:147:A:ASP:HA	3	0.42
(1,498)	1:147:A:ASP:HB3	1:147:A:ASP:HA	7	0.42
(1,498)	1:147:A:ASP:HB3	1:147:A:ASP:HA	8	0.42
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	4	0.42
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG21	6	0.42
(1,437)	1:130:A:LEU:HA	1:130:A:LEU:HD23	8	0.42
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	20	0.42
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	10	0.42
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG23	15	0.42
(1,325)	1:159:A:HIS:HD2	1:159:A:HIS:HA	12	0.42
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	5	0.42
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	12	0.42
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	15	0.42
(1,290)	1:91:A:LEU:HD22	1:91:A:LEU:HB3	11	0.42
(1,288)	1:111:A:VAL:HG23	1:174:A:LEU:HD23	10	0.42
(1,288)	1:111:A:VAL:HG22	1:174:A:LEU:HD23	11	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,288)	1:111:A:VAL:HG23	1:174:A:LEU:HD23	18	0.42
(1,288)	1:111:A:VAL:HG21	1:174:A:LEU:HD22	20	0.42
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	14	0.42
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	18	0.42
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	20	0.42
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG23	4	0.42
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG21	5	0.42
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG21	20	0.42
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	7	0.42
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	13	0.42
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	18	0.42
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	19	0.42
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	15	0.42
(1,237)	1:37:A:ILE:HG23	1:34:A:VAL:HA	15	0.42
(1,237)	1:37:A:ILE:HG21	1:34:A:VAL:HA	19	0.42
(1,220)	1:74:A:THR:HG22	1:55:A:SER:HB2	8	0.42
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	1	0.42
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	2	0.42
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	5	0.42
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	6	0.42
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	7	0.42
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	8	0.42
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	10	0.42
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	12	0.42
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	14	0.42
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	17	0.42
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	19	0.42
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	4	0.42
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	10	0.42
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	12	0.42
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	13	0.42
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	15	0.42
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	17	0.42
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	18	0.42
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	19	0.42
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG23	5	0.42
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	13	0.42
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	14	0.42
(1,91)	1:91:A:LEU:HA	1:91:A:LEU:HG	15	0.42
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	17	0.42
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	1	0.42
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG13	19	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	4	0.41
(3,2)	1:140:A:VAL:N	2:5:B:6MZ:N1	5	0.41
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	1	0.41
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	10	0.41
(1,2250)	1:65:A:ASP:H	1:64:A:PRO:HD3	2	0.41
(1,2250)	1:65:A:ASP:H	1:64:A:PRO:HD3	5	0.41
(1,2250)	1:65:A:ASP:H	1:64:A:PRO:HD3	9	0.41
(1,2250)	1:65:A:ASP:H	1:64:A:PRO:HD3	10	0.41
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB1	20	0.41
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	2	0.41
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	1	0.41
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	2	0.41
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	4	0.41
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	16	0.41
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG22	6	0.41
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG23	18	0.41
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	15	0.41
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	12	0.41
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	14	0.41
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	17	0.41
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	13	0.41
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	7	0.41
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	5	0.41
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	19	0.41
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB3	11	0.41
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	9	0.41
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	13	0.41
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	6	0.41
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	13	0.41
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	15	0.41
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG11	8	0.41
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD13	10	0.41
(1,1922)	1:149:A:ASN:HD22	1:149:A:ASN:HA	2	0.41
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG11	7	0.41
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	13	0.41
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG21	1	0.41
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG23	5	0.41
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG22	15	0.41
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	4	0.41
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	7	0.41
(1,1821)	1:165:A:MET:H	1:164:A:GLN:HG2	2	0.41
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB2	5	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB2	15	0.41
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	12	0.41
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	13	0.41
(1,1626)	1:71:A:VAL:H	1:71:A:VAL:HB	13	0.41
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	16	0.41
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	6	0.41
(1,1568)	1:37:A:ILE:HG12	1:29:A:ILE:HD11	20	0.41
(1,1559)	1:37:A:ILE:HD11	1:37:A:ILE:HG22	9	0.41
(1,1559)	1:37:A:ILE:HD12	1:37:A:ILE:HG23	12	0.41
(1,1559)	1:37:A:ILE:HD11	1:37:A:ILE:HG21	13	0.41
(1,1553)	1:87:A:ILE:HD11	1:29:A:ILE:HG23	5	0.41
(1,1530)	1:174:A:LEU:HD21	1:177:A:VAL:HG11	2	0.41
(1,1530)	1:174:A:LEU:HD23	1:177:A:VAL:HG12	3	0.41
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG23	20	0.41
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	1	0.41
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	7	0.41
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	10	0.41
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	13	0.41
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB1	5	0.41
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB3	7	0.41
(1,1441)	1:154:A:VAL:HG21	1:140:A:VAL:HA	1	0.41
(1,1441)	1:154:A:VAL:HG22	1:140:A:VAL:HA	4	0.41
(1,1441)	1:154:A:VAL:HG21	1:140:A:VAL:HA	10	0.41
(1,1403)	1:37:A:ILE:HG21	1:29:A:ILE:HD13	6	0.41
(1,1382)	1:42:A:GLY:H	1:38:A:ILE:HG22	8	0.41
(1,1335)	1:157:A:ILE:HD12	1:137:A:GLU:H	11	0.41
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	3	0.41
(1,1308)	1:154:A:VAL:HG11	1:153:A:ILE:HA	3	0.41
(1,1308)	1:154:A:VAL:HG13	1:153:A:ILE:HA	13	0.41
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG21	10	0.41
(1,1286)	1:29:A:ILE:H	1:29:A:ILE:HD12	7	0.41
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	10	0.41
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	12	0.41
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	14	0.41
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	17	0.41
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	19	0.41
(1,1247)	1:58:A:ILE:HD12	1:58:A:ILE:HG23	4	0.41
(1,1241)	1:34:A:VAL:HG13	1:37:A:ILE:HB	12	0.41
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	3	0.41
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	6	0.41
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	9	0.41
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	10	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	12	0.41
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	14	0.41
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	17	0.41
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	18	0.41
(1,1206)	1:21:A:GLU:HG2	1:21:A:GLU:HB2	20	0.41
(1,1181)	1:173:A:ILE:HD11	1:119:A:VAL:HA	12	0.41
(1,1181)	1:173:A:ILE:HD12	1:119:A:VAL:HA	13	0.41
(1,1181)	1:173:A:ILE:HD13	1:119:A:VAL:HA	19	0.41
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	12	0.41
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	3	0.41
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB2	11	0.41
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD13	3	0.41
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	18	0.41
(1,1031)	1:68:A:VAL:HG12	1:28:A:PHE:HD1	2	0.41
(1,1031)	1:68:A:VAL:HG13	1:28:A:PHE:HD1	9	0.41
(1,1016)	1:126:A:THR:HG22	1:173:A:ILE:HD12	13	0.41
(1,969)	1:33:A:ALA:HA	1:96:A:PHE:HD2	7	0.41
(1,968)	1:33:A:ALA:HB1	1:96:A:PHE:HE1	17	0.41
(1,954)	1:119:A:VAL:HB	1:120:A:ILE:HD12	14	0.41
(1,896)	1:170:A:ILE:HG22	1:171:A:ARG:HA	20	0.41
(1,890)	1:45:A:ILE:HG22	1:46:A:LYS:HB2	14	0.41
(1,890)	1:45:A:ILE:HG23	1:46:A:LYS:HB2	19	0.41
(1,856)	1:56:A:ILE:HD11	1:49:A:SER:HA	5	0.41
(1,854)	1:14:A:PHE:HD1	1:14:A:PHE:HB3	14	0.41
(1,849)	1:34:A:VAL:HG12	1:69:A:ARG:HB3	1	0.41
(1,784)	1:34:A:VAL:HG12	1:58:A:ILE:HD13	15	0.41
(1,782)	1:105:A:LEU:HD12	1:105:A:LEU:HB3	10	0.41
(1,775)	1:113:A:ALA:HB1	1:152:A:VAL:HG12	5	0.41
(1,775)	1:113:A:ALA:HB3	1:152:A:VAL:HG13	17	0.41
(1,756)	1:92:A:LYS:HG2	1:103:A:VAL:HG21	14	0.41
(1,756)	1:92:A:LYS:HG2	1:103:A:VAL:HG22	15	0.41
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	1	0.41
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD13	10	0.41
(1,644)	1:102:A:GLU:HB2	1:102:A:GLU:HA	12	0.41
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD13	20	0.41
(1,633)	1:100:A:LYS:HB2	1:100:A:LYS:HA	20	0.41
(1,619)	1:78:A:GLU:HG2	1:79:A:ALA:HB2	6	0.41
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD12	18	0.41
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD12	7	0.41
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	9	0.41
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	11	0.41
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	16	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	20	0.41
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	3	0.41
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	5	0.41
(1,570)	1:118:A:ARG:HB2	1:118:A:ARG:HA	19	0.41
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD21	1	0.41
(1,542)	1:105:A:LEU:HA	1:105:A:LEU:HD21	17	0.41
(1,520)	1:127:A:VAL:HG13	1:137:A:GLU:HA	2	0.41
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	1	0.41
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	2	0.41
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	6	0.41
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	7	0.41
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	9	0.41
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	10	0.41
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	14	0.41
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	20	0.41
(1,448)	1:158:A:GLY:HA3	1:156:A:ILE:HG23	11	0.41
(1,424)	1:57:A:LYS:HA	1:57:A:LYS:HD2	13	0.41
(1,416)	1:27:A:VAL:HG23	1:27:A:VAL:HG13	15	0.41
(1,400)	1:138:A:VAL:HG22	1:154:A:VAL:HG22	10	0.41
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	9	0.41
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	17	0.41
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG22	7	0.41
(1,325)	1:159:A:HIS:HD2	1:159:A:HIS:HA	13	0.41
(1,325)	1:159:A:HIS:HD2	1:159:A:HIS:HA	18	0.41
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	11	0.41
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	18	0.41
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG13	9	0.41
(1,294)	1:130:A:LEU:HD22	1:169:A:LYS:HB2	7	0.41
(1,290)	1:91:A:LEU:HD23	1:91:A:LEU:HB3	16	0.41
(1,288)	1:111:A:VAL:HG22	1:174:A:LEU:HD22	8	0.41
(1,288)	1:111:A:VAL:HG21	1:174:A:LEU:HD23	15	0.41
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	12	0.41
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	13	0.41
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG21	7	0.41
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	11	0.41
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	12	0.41
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	14	0.41
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	15	0.41
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	3	0.41
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	6	0.41
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG21	19	0.41
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	3	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	4	0.41
(1,178)	1:46:A:LYS:HB2	1:46:A:LYS:HA	9	0.41
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	1	0.41
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	2	0.41
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	3	0.41
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	5	0.41
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	6	0.41
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	9	0.41
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB3	6	0.41
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB3	13	0.41
(1,88)	1:86:A:ARG:HA	1:86:A:ARG:HG3	11	0.41
(1,74)	1:144:A:GLN:HA	1:144:A:GLN:HG2	20	0.41
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG22	17	0.41
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	2	0.4
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	14	0.4
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	16	0.4
(1,2327)	1:140:A:VAL:HG21	2:4:B:G:H1'	18	0.4
(1,2327)	1:140:A:VAL:HG22	2:4:B:G:H1'	18	0.4
(1,2327)	1:140:A:VAL:HG23	2:4:B:G:H1'	18	0.4
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	4	0.4
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	5	0.4
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	6	0.4
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	9	0.4
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	15	0.4
(1,2256)	1:111:A:VAL:H	1:152:A:VAL:HG22	18	0.4
(1,2250)	1:65:A:ASP:H	1:64:A:PRO:HD3	7	0.4
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB1	5	0.4
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB3	6	0.4
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB3	7	0.4
(1,2215)	1:32:A:GLN:H	1:33:A:ALA:HB2	17	0.4
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	9	0.4
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	2	0.4
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	3	0.4
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	8	0.4
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	13	0.4
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	15	0.4
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	12	0.4
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	6	0.4
(1,2059)	1:179:A:GLN:H	1:179:A:GLN:HG2	7	0.4
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	15	0.4
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	13	0.4
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	15	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	5	0.4
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	4	0.4
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG22	16	0.4
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG11	12	0.4
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG12	15	0.4
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	3	0.4
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	11	0.4
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	14	0.4
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	17	0.4
(1,1893)	1:23:A:GLU:H	1:74:A:THR:HG21	19	0.4
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB3	20	0.4
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG22	7	0.4
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	15	0.4
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB3	12	0.4
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB3	13	0.4
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB2	16	0.4
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	3	0.4
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	1	0.4
(1,1720)	1:149:A:ASN:HD22	1:149:A:ASN:HB2	2	0.4
(1,1715)	1:37:A:ILE:H	1:37:A:ILE:HD11	2	0.4
(1,1695)	1:97:A:PHE:H	1:97:A:PHE:HB3	16	0.4
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB1	19	0.4
(1,1585)	1:177:A:VAL:HG22	1:118:A:ARG:HD3	4	0.4
(1,1582)	1:59:A:ALA:HB3	1:70:A:MET:HG3	7	0.4
(1,1576)	1:29:A:ILE:HD12	1:33:A:ALA:HB2	7	0.4
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG21	15	0.4
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG22	19	0.4
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB3	5	0.4
(1,1488)	1:45:A:ILE:HD12	1:45:A:ILE:HG22	4	0.4
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	5	0.4
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	6	0.4
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	9	0.4
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	19	0.4
(1,1441)	1:154:A:VAL:HG22	1:140:A:VAL:HA	7	0.4
(1,1403)	1:37:A:ILE:HG22	1:29:A:ILE:HD11	8	0.4
(1,1366)	1:48:A:LEU:HD22	1:86:A:ARG:HD2	8	0.4
(1,1358)	1:54:A:ALA:HB1	1:75:A:GLY:HA3	20	0.4
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG23	16	0.4
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	4	0.4
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	17	0.4
(1,1308)	1:154:A:VAL:HG13	1:153:A:ILE:HA	2	0.4
(1,1308)	1:154:A:VAL:HG13	1:153:A:ILE:HA	9	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG23	7	0.4
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG21	11	0.4
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG22	5	0.4
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG21	12	0.4
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	11	0.4
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	12	0.4
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	16	0.4
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	13	0.4
(1,1242)	1:25:A:VAL:HG13	1:26:A:HIS:HA	20	0.4
(1,1241)	1:34:A:VAL:HG11	1:37:A:ILE:HB	9	0.4
(1,1241)	1:34:A:VAL:HG11	1:37:A:ILE:HB	19	0.4
(1,1222)	1:48:A:LEU:HG	1:48:A:LEU:HB2	4	0.4
(1,1222)	1:48:A:LEU:HG	1:48:A:LEU:HB2	6	0.4
(1,1181)	1:173:A:ILE:HD12	1:119:A:VAL:HA	2	0.4
(1,1181)	1:173:A:ILE:HD13	1:119:A:VAL:HA	11	0.4
(1,1181)	1:173:A:ILE:HD12	1:119:A:VAL:HA	17	0.4
(1,1181)	1:173:A:ILE:HD13	1:119:A:VAL:HA	20	0.4
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB2	19	0.4
(1,1111)	1:169:A:LYS:H	1:169:A:LYS:HG2	11	0.4
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD13	7	0.4
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	9	0.4
(1,1073)	1:88:A:TYR:HE1	1:103:A:VAL:HB	16	0.4
(1,1059)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	20	0.4
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	1	0.4
(1,1031)	1:68:A:VAL:HG13	1:28:A:PHE:HD1	4	0.4
(1,971)	1:52:A:ALA:HB1	1:56:A:ILE:HD12	10	0.4
(1,954)	1:119:A:VAL:HB	1:120:A:ILE:HD12	5	0.4
(1,942)	1:153:A:ILE:HG23	1:108:A:HIS:HD2	17	0.4
(1,941)	1:153:A:ILE:HG23	1:155:A:LYS:HA	8	0.4
(1,938)	1:24:A:THR:HG23	1:26:A:HIS:HD2	1	0.4
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD23	14	0.4
(1,925)	1:107:A:THR:HA	1:27:A:VAL:HG13	8	0.4
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	17	0.4
(1,896)	1:170:A:ILE:HG23	1:171:A:ARG:HA	15	0.4
(1,896)	1:170:A:ILE:HG23	1:171:A:ARG:HA	19	0.4
(1,890)	1:45:A:ILE:HG22	1:46:A:LYS:HB2	8	0.4
(1,775)	1:113:A:ALA:HB1	1:152:A:VAL:HG13	20	0.4
(1,762)	1:135:A:ALA:HB1	1:162:A:ALA:HB1	7	0.4
(1,748)	1:62:A:GLU:HG2	1:63:A:THR:HG22	8	0.4
(1,745)	1:145:A:THR:HG21	1:146:A:PRO:HD3	20	0.4
(1,671)	1:116:A:ALA:HB2	1:140:A:VAL:HG22	8	0.4
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD11	18	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,644)	1:102:A:GLU:HB2	1:102:A:GLU:HA	15	0.4
(1,644)	1:102:A:GLU:HB2	1:102:A:GLU:HA	19	0.4
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD13	16	0.4
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	8	0.4
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	15	0.4
(1,619)	1:78:A:GLU:HG2	1:79:A:ALA:HB2	5	0.4
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD13	14	0.4
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD11	20	0.4
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD13	10	0.4
(1,585)	1:22:A:GLN:HA	1:22:A:GLN:HG2	3	0.4
(1,577)	1:176:A:GLN:HA	1:176:A:GLN:HG2	12	0.4
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	1	0.4
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	7	0.4
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	10	0.4
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	12	0.4
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	15	0.4
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG12	8	0.4
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD12	1	0.4
(1,492)	1:103:A:VAL:HG12	1:103:A:VAL:HG21	7	0.4
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	11	0.4
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	15	0.4
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	16	0.4
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	17	0.4
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG11	16	0.4
(1,448)	1:158:A:GLY:HA3	1:156:A:ILE:HG21	15	0.4
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG11	6	0.4
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG13	8	0.4
(1,438)	1:130:A:LEU:HA	1:130:A:LEU:HD11	14	0.4
(1,424)	1:57:A:LYS:HA	1:57:A:LYS:HD2	7	0.4
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB2	20	0.4
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	15	0.4
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD11	2	0.4
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	1	0.4
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	3	0.4
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	13	0.4
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	19	0.4
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG22	19	0.4
(1,290)	1:91:A:LEU:HD22	1:91:A:LEU:HB3	12	0.4
(1,290)	1:91:A:LEU:HD22	1:91:A:LEU:HB3	14	0.4
(1,288)	1:111:A:VAL:HG22	1:174:A:LEU:HD22	3	0.4
(1,288)	1:111:A:VAL:HG23	1:174:A:LEU:HD23	13	0.4
(1,288)	1:111:A:VAL:HG23	1:174:A:LEU:HD21	17	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	17	0.4
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	1	0.4
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	2	0.4
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	4	0.4
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	12	0.4
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	20	0.4
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	16	0.4
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	17	0.4
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	20	0.4
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	1	0.4
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG21	1	0.4
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG22	8	0.4
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD23	17	0.4
(1,174)	1:164:A:GLN:HG2	1:164:A:GLN:HA	14	0.4
(1,161)	1:101:A:GLU:HA	1:101:A:GLU:HB2	18	0.4
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	7	0.4
(1,141)	1:94:A:GLU:HA	1:94:A:GLU:HB2	8	0.4
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG21	2	0.4
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG23	19	0.4
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB2	5	0.4
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB1	15	0.4
(1,74)	1:144:A:GLN:HA	1:144:A:GLN:HG2	4	0.4
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG12	3	0.4
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG13	6	0.4
(1,34)	1:33:A:ALA:H	1:34:A:VAL:HG13	17	0.4
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	3	0.39
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	10	0.39
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	16	0.39
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	16	0.39
(1,2327)	1:140:A:VAL:HG21	2:4:B:G:H1'	11	0.39
(1,2327)	1:140:A:VAL:HG22	2:4:B:G:H1'	11	0.39
(1,2327)	1:140:A:VAL:HG23	2:4:B:G:H1'	11	0.39
(1,2327)	1:140:A:VAL:HG21	2:4:B:G:H1'	13	0.39
(1,2327)	1:140:A:VAL:HG22	2:4:B:G:H1'	13	0.39
(1,2327)	1:140:A:VAL:HG23	2:4:B:G:H1'	13	0.39
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	2	0.39
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	3	0.39
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	11	0.39
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	12	0.39
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	16	0.39
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	19	0.39
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	20	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2252)	1:65:A:ASP:H	1:63:A:THR:HG23	11	0.39
(1,2250)	1:65:A:ASP:H	1:64:A:PRO:HD3	1	0.39
(1,2250)	1:65:A:ASP:H	1:64:A:PRO:HD3	3	0.39
(1,2250)	1:65:A:ASP:H	1:64:A:PRO:HD3	4	0.39
(1,2242)	1:18:A:MET:H	1:18:A:MET:HG2	9	0.39
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	8	0.39
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	5	0.39
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	1	0.39
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	5	0.39
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	6	0.39
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	2	0.39
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	5	0.39
(1,2201)	1:148:A:GLU:H	1:148:A:GLU:HB2	6	0.39
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG21	13	0.39
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	19	0.39
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	1	0.39
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	8	0.39
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	10	0.39
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	18	0.39
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	8	0.39
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	8	0.39
(1,2023)	1:70:A:MET:H	1:70:A:MET:HB2	16	0.39
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	10	0.39
(1,1983)	1:179:A:GLN:HE21	1:176:A:GLN:HB3	20	0.39
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG23	14	0.39
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG11	7	0.39
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG11	9	0.39
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD12	7	0.39
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG13	2	0.39
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG11	4	0.39
(1,1899)	1:83:A:ALA:H	1:73:A:ILE:HD12	17	0.39
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD1	18	0.39
(1,1873)	1:113:A:ALA:H	1:151:A:GLN:H	15	0.39
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	5	0.39
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG21	14	0.39
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	6	0.39
(1,1821)	1:165:A:MET:H	1:164:A:GLN:HG2	5	0.39
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB2	14	0.39
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	11	0.39
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG23	18	0.39
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	12	0.39
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	3	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	9	0.39
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	15	0.39
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	19	0.39
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB1	13	0.39
(1,1585)	1:177:A:VAL:HG21	1:118:A:ARG:HD3	20	0.39
(1,1576)	1:29:A:ILE:HD11	1:33:A:ALA:HB2	11	0.39
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG23	11	0.39
(1,1535)	1:170:A:ILE:HD12	1:170:A:ILE:HG21	10	0.39
(1,1530)	1:174:A:LEU:HD21	1:177:A:VAL:HG12	1	0.39
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB1	8	0.39
(1,1501)	1:59:A:ALA:HB1	1:72:A:VAL:HG22	15	0.39
(1,1495)	1:174:A:LEU:HD21	1:118:A:ARG:HG3	11	0.39
(1,1488)	1:45:A:ILE:HD13	1:45:A:ILE:HG23	5	0.39
(1,1488)	1:45:A:ILE:HD13	1:45:A:ILE:HG21	6	0.39
(1,1488)	1:45:A:ILE:HD11	1:45:A:ILE:HG21	10	0.39
(1,1488)	1:45:A:ILE:HD11	1:45:A:ILE:HG21	20	0.39
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	8	0.39
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	11	0.39
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB3	3	0.39
(1,1410)	1:104:A:LYS:HB2	1:157:A:ILE:HG21	2	0.39
(1,1366)	1:48:A:LEU:HD22	1:86:A:ARG:HD3	18	0.39
(1,1365)	1:48:A:LEU:HD22	1:86:A:ARG:HB3	6	0.39
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG21	1	0.39
(1,1313)	1:157:A:ILE:HG12	1:106:A:GLU:HA	9	0.39
(1,1308)	1:154:A:VAL:HG12	1:153:A:ILE:HA	7	0.39
(1,1289)	1:31:A:ALA:HB2	1:67:A:LYS:HA	13	0.39
(1,1289)	1:31:A:ALA:HB3	1:67:A:LYS:HA	16	0.39
(1,1284)	1:29:A:ILE:HD12	1:30:A:PRO:HD2	8	0.39
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG22	1	0.39
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG23	6	0.39
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG21	8	0.39
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG22	11	0.39
(1,1277)	1:169:A:LYS:HB2	1:130:A:LEU:HD11	10	0.39
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	20	0.39
(1,1273)	1:96:A:PHE:HZ	1:94:A:GLU:HG2	17	0.39
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	20	0.39
(1,1247)	1:58:A:ILE:HD11	1:58:A:ILE:HG23	1	0.39
(1,1241)	1:34:A:VAL:HG12	1:37:A:ILE:HB	7	0.39
(1,1241)	1:34:A:VAL:HG11	1:37:A:ILE:HB	8	0.39
(1,1222)	1:48:A:LEU:HG	1:48:A:LEU:HB2	1	0.39
(1,1181)	1:173:A:ILE:HD12	1:119:A:VAL:HA	10	0.39
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	4	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB2	14	0.39
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD13	14	0.39
(1,1085)	1:153:A:ILE:H	1:153:A:ILE:HG12	12	0.39
(1,1059)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	12	0.39
(1,1031)	1:68:A:VAL:HG12	1:28:A:PHE:HD1	5	0.39
(1,1015)	1:170:A:ILE:HD11	1:130:A:LEU:HD11	10	0.39
(1,999)	1:157:A:ILE:HG21	1:104:A:LYS:HA	5	0.39
(1,983)	1:48:A:LEU:HD23	1:83:A:ALA:HA	10	0.39
(1,978)	1:29:A:ILE:HA	1:105:A:LEU:HD11	13	0.39
(1,967)	1:94:A:GLU:HB2	1:96:A:PHE:HD1	20	0.39
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG12	8	0.39
(1,938)	1:24:A:THR:HG23	1:26:A:HIS:HD2	15	0.39
(1,921)	1:105:A:LEU:HD13	1:97:A:PHE:HE1	15	0.39
(1,901)	1:90:A:LYS:HE2	1:94:A:GLU:HG3	11	0.39
(1,890)	1:45:A:ILE:HG22	1:46:A:LYS:HB2	4	0.39
(1,890)	1:45:A:ILE:HG23	1:46:A:LYS:HB2	5	0.39
(1,863)	1:87:A:ILE:HG22	1:84:A:GLN:HA	5	0.39
(1,863)	1:87:A:ILE:HG23	1:84:A:GLN:HA	6	0.39
(1,854)	1:14:A:PHE:HD1	1:14:A:PHE:HB3	2	0.39
(1,849)	1:34:A:VAL:HG12	1:69:A:ARG:HB3	2	0.39
(1,849)	1:34:A:VAL:HG12	1:69:A:ARG:HB3	8	0.39
(1,797)	1:48:A:LEU:HD11	1:51:A:PHE:HD1	1	0.39
(1,797)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	4	0.39
(1,797)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	5	0.39
(1,791)	1:54:A:ALA:HB2	1:83:A:ALA:HB2	11	0.39
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG21	11	0.39
(1,775)	1:113:A:ALA:HB3	1:152:A:VAL:HG11	3	0.39
(1,775)	1:113:A:ALA:HB3	1:152:A:VAL:HG12	6	0.39
(1,775)	1:113:A:ALA:HB1	1:152:A:VAL:HG13	18	0.39
(1,759)	1:79:A:ALA:HB1	1:76:A:PRO:HG3	10	0.39
(1,742)	1:156:A:ILE:HD11	1:166:A:ALA:HB1	20	0.39
(1,741)	1:156:A:ILE:HD11	1:156:A:ILE:HG22	5	0.39
(1,732)	1:153:A:ILE:HD12	1:153:A:ILE:HG13	10	0.39
(1,709)	1:86:A:ARG:HB2	1:48:A:LEU:HD12	6	0.39
(1,708)	1:83:A:ALA:HA	1:48:A:LEU:HD12	12	0.39
(1,708)	1:83:A:ALA:HA	1:48:A:LEU:HD12	13	0.39
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	20	0.39
(1,671)	1:116:A:ALA:HB2	1:140:A:VAL:HG22	1	0.39
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD13	12	0.39
(1,627)	1:93:A:GLU:HB3	1:93:A:GLU:HG3	7	0.39
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	17	0.39
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG23	1	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,546)	1:55:A:SER:HA	1:55:A:SER:HB2	4	0.39
(1,546)	1:55:A:SER:HA	1:55:A:SER:HB2	8	0.39
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD13	13	0.39
(1,500)	1:176:A:GLN:HE22	1:176:A:GLN:HG3	10	0.39
(1,500)	1:176:A:GLN:HE22	1:176:A:GLN:HG3	18	0.39
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	5	0.39
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	12	0.39
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	13	0.39
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	18	0.39
(1,448)	1:158:A:GLY:HA3	1:156:A:ILE:HG21	5	0.39
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB1	3	0.39
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG21	4	0.39
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG22	9	0.39
(1,360)	1:71:A:VAL:HA	1:71:A:VAL:HB	7	0.39
(1,360)	1:71:A:VAL:HA	1:71:A:VAL:HB	8	0.39
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	10	0.39
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	14	0.39
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	16	0.39
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	17	0.39
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	19	0.39
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	20	0.39
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	2	0.39
(1,290)	1:91:A:LEU:HD23	1:91:A:LEU:HB3	19	0.39
(1,288)	1:111:A:VAL:HG21	1:174:A:LEU:HD22	9	0.39
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG22	8	0.39
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG22	13	0.39
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	8	0.39
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	13	0.39
(1,243)	1:33:A:ALA:HB1	1:96:A:PHE:HB2	15	0.39
(1,229)	1:119:A:VAL:HG13	1:116:A:ALA:HA	2	0.39
(1,228)	1:109:A:ILE:HG23	1:171:A:ARG:HD2	6	0.39
(1,221)	1:104:A:LYS:HE2	1:104:A:LYS:HG3	8	0.39
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	1	0.39
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	2	0.39
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	3	0.39
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	4	0.39
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	5	0.39
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	6	0.39
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	7	0.39
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	8	0.39
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	9	0.39
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	10	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB1	1	0.39
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB1	3	0.39
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	3	0.39
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	4	0.39
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	1	0.38
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	7	0.38
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	6	0.38
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	6	0.38
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	16	0.38
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	1	0.38
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	6	0.38
(1,2293)	1:127:A:VAL:HG21	2:5:B:6MZ:H2	5	0.38
(1,2293)	1:127:A:VAL:HG22	2:5:B:6MZ:H2	5	0.38
(1,2293)	1:127:A:VAL:HG23	2:5:B:6MZ:H2	5	0.38
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG21	1	0.38
(1,2273)	1:22:A:GLN:HE22	1:22:A:GLN:HG2	14	0.38
(1,2269)	1:84:A:GLN:HE21	1:84:A:GLN:HB2	1	0.38
(1,2250)	1:65:A:ASP:H	1:64:A:PRO:HD3	6	0.38
(1,2250)	1:65:A:ASP:H	1:64:A:PRO:HD3	8	0.38
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB1	12	0.38
(1,2242)	1:18:A:MET:H	1:18:A:MET:HG2	20	0.38
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	13	0.38
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	8	0.38
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	4	0.38
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	7	0.38
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	17	0.38
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	18	0.38
(1,2208)	1:121:A:GLY:H	1:120:A:ILE:HB	16	0.38
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG21	10	0.38
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	14	0.38
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	16	0.38
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	3	0.38
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	7	0.38
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	14	0.38
(1,2079)	1:143:A:ASP:H	1:143:A:ASP:HB3	15	0.38
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	7	0.38
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	17	0.38
(1,2023)	1:70:A:MET:H	1:70:A:MET:HB2	18	0.38
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG21	7	0.38
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG22	15	0.38
(1,1955)	1:93:A:GLU:H	1:103:A:VAL:HG13	10	0.38
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG12	5	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	12	0.38
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	16	0.38
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	9	0.38
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB1	9	0.38
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB1	11	0.38
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB2	20	0.38
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	15	0.38
(1,1715)	1:37:A:ILE:H	1:37:A:ILE:HD11	5	0.38
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	2	0.38
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	6	0.38
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	7	0.38
(1,1664)	1:101:A:GLU:H	1:100:A:LYS:HG2	8	0.38
(1,1585)	1:177:A:VAL:HG21	1:118:A:ARG:HD3	10	0.38
(1,1535)	1:170:A:ILE:HD12	1:170:A:ILE:HG23	9	0.38
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG21	9	0.38
(1,1520)	1:22:A:GLN:HB3	1:74:A:THR:HG21	13	0.38
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB1	9	0.38
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB1	17	0.38
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	10	0.38
(1,1488)	1:45:A:ILE:HD13	1:45:A:ILE:HG21	3	0.38
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB1	1	0.38
(1,1441)	1:154:A:VAL:HG23	1:140:A:VAL:HA	5	0.38
(1,1403)	1:37:A:ILE:HG23	1:29:A:ILE:HD12	3	0.38
(1,1403)	1:37:A:ILE:HG22	1:29:A:ILE:HD12	18	0.38
(1,1391)	1:29:A:ILE:H	1:29:A:ILE:HG22	13	0.38
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	16	0.38
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG22	2	0.38
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG21	4	0.38
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG23	16	0.38
(1,1289)	1:31:A:ALA:HB2	1:67:A:LYS:HA	1	0.38
(1,1289)	1:31:A:ALA:HB3	1:67:A:LYS:HA	12	0.38
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG23	9	0.38
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG22	15	0.38
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG22	20	0.38
(1,1277)	1:169:A:LYS:HB2	1:130:A:LEU:HD12	13	0.38
(1,1273)	1:96:A:PHE:HZ	1:94:A:GLU:HG2	4	0.38
(1,1272)	1:97:A:PHE:HE1	1:103:A:VAL:HG11	20	0.38
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD13	4	0.38
(1,1242)	1:25:A:VAL:HG11	1:26:A:HIS:HA	19	0.38
(1,1241)	1:34:A:VAL:HG11	1:37:A:ILE:HB	6	0.38
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	7	0.38
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	8	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	8	0.38
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB2	13	0.38
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB1	20	0.38
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	3	0.38
(1,991)	1:142:A:ARG:HA	1:142:A:ARG:HD3	3	0.38
(1,990)	1:110:A:ARG:HD3	1:153:A:ILE:HD13	4	0.38
(1,990)	1:110:A:ARG:HD3	1:153:A:ILE:HD12	7	0.38
(1,990)	1:110:A:ARG:HD3	1:153:A:ILE:HD13	13	0.38
(1,969)	1:33:A:ALA:HA	1:96:A:PHE:HD1	8	0.38
(1,966)	1:91:A:LEU:HG	1:97:A:PHE:HE1	18	0.38
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG12	13	0.38
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD23	20	0.38
(1,925)	1:107:A:THR:HA	1:27:A:VAL:HG13	7	0.38
(1,917)	1:74:A:THR:HG21	1:24:A:THR:HA	9	0.38
(1,914)	1:68:A:VAL:HG22	1:28:A:PHE:HE1	8	0.38
(1,901)	1:90:A:LYS:HE2	1:94:A:GLU:HG3	2	0.38
(1,890)	1:45:A:ILE:HG23	1:46:A:LYS:HB2	1	0.38
(1,890)	1:45:A:ILE:HG22	1:46:A:LYS:HB2	7	0.38
(1,890)	1:45:A:ILE:HG23	1:46:A:LYS:HB2	13	0.38
(1,890)	1:45:A:ILE:HG22	1:46:A:LYS:HB2	18	0.38
(1,876)	1:109:A:ILE:HG21	1:107:A:THR:HG21	8	0.38
(1,854)	1:14:A:PHE:HD1	1:14:A:PHE:HB3	4	0.38
(1,849)	1:34:A:VAL:HG11	1:69:A:ARG:HB3	4	0.38
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG21	1	0.38
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG21	4	0.38
(1,833)	1:37:A:ILE:HD11	1:87:A:ILE:HA	14	0.38
(1,833)	1:37:A:ILE:HD13	1:87:A:ILE:HA	20	0.38
(1,832)	1:28:A:PHE:HB3	1:106:A:GLU:HB2	20	0.38
(1,812)	1:174:A:LEU:HD12	1:111:A:VAL:HG21	9	0.38
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG21	3	0.38
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG22	7	0.38
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG21	14	0.38
(1,765)	1:157:A:ILE:HD13	1:157:A:ILE:HB	8	0.38
(1,762)	1:135:A:ALA:HB3	1:162:A:ALA:HB1	10	0.38
(1,756)	1:92:A:LYS:HG2	1:103:A:VAL:HG21	17	0.38
(1,732)	1:153:A:ILE:HD11	1:153:A:ILE:HG13	1	0.38
(1,732)	1:153:A:ILE:HD12	1:153:A:ILE:HG13	5	0.38
(1,732)	1:153:A:ILE:HD13	1:153:A:ILE:HG13	8	0.38
(1,732)	1:153:A:ILE:HD12	1:153:A:ILE:HG13	14	0.38
(1,732)	1:153:A:ILE:HD12	1:153:A:ILE:HG13	15	0.38
(1,732)	1:153:A:ILE:HD13	1:153:A:ILE:HG13	16	0.38
(1,732)	1:153:A:ILE:HD13	1:153:A:ILE:HG13	17	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,732)	1:153:A:ILE:HD11	1:153:A:ILE:HG13	20	0.38
(1,692)	1:115:A:ALA:HB2	1:111:A:VAL:HG21	15	0.38
(1,684)	1:25:A:VAL:HG11	1:107:A:THR:HG22	15	0.38
(1,684)	1:25:A:VAL:HG13	1:107:A:THR:HG22	18	0.38
(1,671)	1:116:A:ALA:HB3	1:140:A:VAL:HG21	2	0.38
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD11	19	0.38
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG22	13	0.38
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG23	20	0.38
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	1	0.38
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	4	0.38
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	13	0.38
(1,619)	1:78:A:GLU:HG2	1:79:A:ALA:HB1	2	0.38
(1,610)	1:30:A:PRO:HD3	1:33:A:ALA:HB1	20	0.38
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD12	3	0.38
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	3	0.38
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	5	0.38
(1,546)	1:55:A:SER:HA	1:55:A:SER:HB2	13	0.38
(1,546)	1:55:A:SER:HA	1:55:A:SER:HB2	17	0.38
(1,525)	1:105:A:LEU:HD13	1:97:A:PHE:HD1	1	0.38
(1,525)	1:105:A:LEU:HD11	1:97:A:PHE:HD1	12	0.38
(1,518)	1:142:A:ARG:HA	1:142:A:ARG:HB2	20	0.38
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	5	0.38
(1,500)	1:176:A:GLN:HE22	1:176:A:GLN:HG3	12	0.38
(1,488)	1:100:A:LYS:HA	1:100:A:LYS:HB3	12	0.38
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	7	0.38
(1,455)	1:61:A:PRO:HD3	1:61:A:PRO:HG2	19	0.38
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	1	0.38
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG13	11	0.38
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG23	8	0.38
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG22	12	0.38
(1,435)	1:100:A:LYS:H	1:100:A:LYS:HB3	20	0.38
(1,424)	1:57:A:LYS:HA	1:57:A:LYS:HD2	11	0.38
(1,424)	1:57:A:LYS:HA	1:57:A:LYS:HD2	12	0.38
(1,424)	1:57:A:LYS:HA	1:57:A:LYS:HD2	19	0.38
(1,424)	1:57:A:LYS:HA	1:57:A:LYS:HD2	20	0.38
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB2	18	0.38
(1,416)	1:27:A:VAL:HG22	1:27:A:VAL:HG11	1	0.38
(1,408)	1:120:A:ILE:HG22	1:117:A:GLY:HA2	11	0.38
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	19	0.38
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG22	1	0.38
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG22	6	0.38
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	4	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG13	17	0.38
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	4	0.38
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	5	0.38
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	8	0.38
(1,313)	1:154:A:VAL:H	1:154:A:VAL:HG11	12	0.38
(1,312)	1:75:A:GLY:HA3	1:74:A:THR:HG22	11	0.38
(1,301)	1:55:A:SER:H	1:55:A:SER:HB2	7	0.38
(1,296)	1:138:A:VAL:HG12	1:138:A:VAL:HG22	7	0.38
(1,290)	1:91:A:LEU:HD21	1:91:A:LEU:HB3	20	0.38
(1,288)	1:111:A:VAL:HG23	1:174:A:LEU:HD23	2	0.38
(1,288)	1:111:A:VAL:HG23	1:174:A:LEU:HD23	4	0.38
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	15	0.38
(1,283)	1:45:A:ILE:H	1:45:A:ILE:HG13	19	0.38
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG22	6	0.38
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	6	0.38
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	7	0.38
(1,244)	1:29:A:ILE:HD13	1:29:A:ILE:HG22	5	0.38
(1,243)	1:33:A:ALA:HB3	1:96:A:PHE:HB2	5	0.38
(1,238)	1:48:A:LEU:HD22	1:83:A:ALA:HB1	13	0.38
(1,237)	1:37:A:ILE:HG22	1:34:A:VAL:HA	12	0.38
(1,232)	1:111:A:VAL:HG13	1:111:A:VAL:HG23	5	0.38
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG21	2	0.38
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG23	13	0.38
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG23	17	0.38
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB2	4	0.38
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB3	11	0.38
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB2	12	0.38
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB2	17	0.38
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB1	18	0.38
(1,88)	1:86:A:ARG:HA	1:86:A:ARG:HG3	8	0.38
(1,74)	1:144:A:GLN:HA	1:144:A:GLN:HG2	10	0.38
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG21	5	0.38
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG21	9	0.38
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	5	0.37
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	10	0.37
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	10	0.37
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	5	0.37
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	9	0.37
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	20	0.37
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	19	0.37
(1,2278)	1:139:A:VAL:H	1:156:A:ILE:HG13	11	0.37
(1,2269)	1:84:A:GLN:HE21	1:84:A:GLN:HB2	3	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2269)	1:84:A:GLN:HE21	1:84:A:GLN:HB2	8	0.37
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG23	18	0.37
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB3	3	0.37
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	2	0.37
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	7	0.37
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	10	0.37
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	13	0.37
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	14	0.37
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	15	0.37
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	20	0.37
(1,2172)	1:100:A:LYS:H	1:100:A:LYS:HD2	1	0.37
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG23	7	0.37
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	19	0.37
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	9	0.37
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG11	14	0.37
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	18	0.37
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG11	3	0.37
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG11	8	0.37
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG13	9	0.37
(1,1899)	1:83:A:ALA:H	1:73:A:ILE:HD12	7	0.37
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	14	0.37
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	19	0.37
(1,1873)	1:113:A:ALA:H	1:151:A:GLN:H	20	0.37
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	18	0.37
(1,1827)	1:119:A:VAL:H	1:118:A:ARG:HG2	1	0.37
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	11	0.37
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	13	0.37
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	18	0.37
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	10	0.37
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	4	0.37
(1,1661)	1:178:A:LYS:H	1:178:A:LYS:HG2	20	0.37
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	3	0.37
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	4	0.37
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	7	0.37
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	9	0.37
(1,1634)	1:18:A:MET:H	1:18:A:MET:HB2	6	0.37
(1,1634)	1:18:A:MET:H	1:18:A:MET:HB2	10	0.37
(1,1634)	1:18:A:MET:H	1:18:A:MET:HB2	12	0.37
(1,1634)	1:18:A:MET:H	1:18:A:MET:HB2	14	0.37
(1,1634)	1:18:A:MET:H	1:18:A:MET:HB2	19	0.37
(1,1606)	1:18:A:MET:HG2	1:18:A:MET:HB2	10	0.37
(1,1601)	1:134:A:THR:HG21	1:165:A:MET:HG2	20	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB2	8	0.37
(1,1585)	1:177:A:VAL:HG22	1:118:A:ARG:HD3	11	0.37
(1,1535)	1:170:A:ILE:HD12	1:170:A:ILE:HG22	1	0.37
(1,1535)	1:170:A:ILE:HD12	1:170:A:ILE:HG23	5	0.37
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB2	1	0.37
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB1	4	0.37
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB1	6	0.37
(1,1501)	1:59:A:ALA:HB2	1:72:A:VAL:HG23	16	0.37
(1,1501)	1:59:A:ALA:HB2	1:72:A:VAL:HG23	20	0.37
(1,1495)	1:174:A:LEU:HD22	1:118:A:ARG:HG3	16	0.37
(1,1495)	1:174:A:LEU:HD21	1:118:A:ARG:HG3	18	0.37
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	3	0.37
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD12	7	0.37
(1,1378)	1:174:A:LEU:HA	1:177:A:VAL:HG13	20	0.37
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	11	0.37
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	13	0.37
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	14	0.37
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	17	0.37
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	20	0.37
(1,1308)	1:154:A:VAL:HG12	1:153:A:ILE:HA	18	0.37
(1,1308)	1:154:A:VAL:HG12	1:153:A:ILE:HA	19	0.37
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG23	12	0.37
(1,1300)	1:105:A:LEU:HD13	1:29:A:ILE:HG21	6	0.37
(1,1289)	1:31:A:ALA:HB1	1:67:A:LYS:HA	3	0.37
(1,1289)	1:31:A:ALA:HB2	1:67:A:LYS:HA	9	0.37
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG23	14	0.37
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG23	19	0.37
(1,1241)	1:34:A:VAL:HG11	1:37:A:ILE:HB	2	0.37
(1,1181)	1:173:A:ILE:HD13	1:119:A:VAL:HA	8	0.37
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	14	0.37
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	17	0.37
(1,1146)	1:174:A:LEU:HD21	1:111:A:VAL:HA	9	0.37
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	9	0.37
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	6	0.37
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	11	0.37
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	15	0.37
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB1	6	0.37
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB3	10	0.37
(1,1059)	1:48:A:LEU:HD11	1:51:A:PHE:HD1	17	0.37
(1,1031)	1:68:A:VAL:HG12	1:28:A:PHE:HD1	18	0.37
(1,1029)	1:28:A:PHE:HD1	1:106:A:GLU:HG2	16	0.37
(1,1015)	1:170:A:ILE:HD13	1:130:A:LEU:HD12	3	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,999)	1:157:A:ILE:HG21	1:104:A:LYS:HA	15	0.37
(1,999)	1:157:A:ILE:HG22	1:104:A:LYS:HA	16	0.37
(1,986)	1:60:A:PRO:HD2	1:59:A:ALA:HA	5	0.37
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG11	20	0.37
(1,941)	1:153:A:ILE:HG21	1:155:A:LYS:HA	11	0.37
(1,917)	1:74:A:THR:HG23	1:24:A:THR:HA	1	0.37
(1,894)	1:54:A:ALA:HB1	1:56:A:ILE:HD13	12	0.37
(1,894)	1:54:A:ALA:HB1	1:56:A:ILE:HD13	13	0.37
(1,890)	1:45:A:ILE:HG22	1:46:A:LYS:HB2	17	0.37
(1,876)	1:109:A:ILE:HG23	1:107:A:THR:HG21	13	0.37
(1,863)	1:87:A:ILE:HG22	1:84:A:GLN:HA	16	0.37
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG21	3	0.37
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG21	9	0.37
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG22	16	0.37
(1,833)	1:37:A:ILE:HD12	1:87:A:ILE:HA	13	0.37
(1,826)	1:91:A:LEU:HD22	1:105:A:LEU:HD11	3	0.37
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG23	4	0.37
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG23	8	0.37
(1,784)	1:34:A:VAL:HG11	1:58:A:ILE:HD11	8	0.37
(1,765)	1:157:A:ILE:HD13	1:157:A:ILE:HB	13	0.37
(1,759)	1:79:A:ALA:HB1	1:76:A:PRO:HG3	11	0.37
(1,756)	1:92:A:LYS:HG2	1:103:A:VAL:HG22	18	0.37
(1,732)	1:153:A:ILE:HD12	1:153:A:ILE:HG13	2	0.37
(1,732)	1:153:A:ILE:HD13	1:153:A:ILE:HG13	3	0.37
(1,732)	1:153:A:ILE:HD11	1:153:A:ILE:HG13	6	0.37
(1,732)	1:153:A:ILE:HD11	1:153:A:ILE:HG13	7	0.37
(1,732)	1:153:A:ILE:HD12	1:153:A:ILE:HG13	11	0.37
(1,732)	1:153:A:ILE:HD12	1:153:A:ILE:HG13	18	0.37
(1,732)	1:153:A:ILE:HD13	1:153:A:ILE:HG13	19	0.37
(1,731)	1:153:A:ILE:HG21	1:153:A:ILE:HD12	12	0.37
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	15	0.37
(1,685)	1:116:A:ALA:HB3	1:140:A:VAL:HG11	17	0.37
(1,684)	1:25:A:VAL:HG11	1:107:A:THR:HG22	11	0.37
(1,676)	1:90:A:LYS:HG2	1:90:A:LYS:HE2	19	0.37
(1,671)	1:116:A:ALA:HB3	1:140:A:VAL:HG21	5	0.37
(1,671)	1:116:A:ALA:HB1	1:140:A:VAL:HG23	6	0.37
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	2	0.37
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	3	0.37
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	20	0.37
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG23	6	0.37
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG22	16	0.37
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	11	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	19	0.37
(1,571)	1:86:A:ARG:HA	1:86:A:ARG:HB2	11	0.37
(1,546)	1:55:A:SER:HA	1:55:A:SER:HB2	1	0.37
(1,546)	1:55:A:SER:HA	1:55:A:SER:HB2	14	0.37
(1,546)	1:55:A:SER:HA	1:55:A:SER:HB2	15	0.37
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	4	0.37
(1,492)	1:103:A:VAL:HG12	1:103:A:VAL:HG22	2	0.37
(1,492)	1:103:A:VAL:HG11	1:103:A:VAL:HG22	5	0.37
(1,488)	1:100:A:LYS:HA	1:100:A:LYS:HB3	15	0.37
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG11	1	0.37
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG12	7	0.37
(1,424)	1:57:A:LYS:HA	1:57:A:LYS:HD2	15	0.37
(1,424)	1:57:A:LYS:HA	1:57:A:LYS:HD2	18	0.37
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB1	8	0.37
(1,334)	1:26:A:HIS:H	1:25:A:VAL:HG21	10	0.37
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	2	0.37
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	7	0.37
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	8	0.37
(1,324)	1:149:A:ASN:H	1:148:A:GLU:HA	9	0.37
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG11	4	0.37
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG12	12	0.37
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	7	0.37
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	17	0.37
(1,301)	1:55:A:SER:H	1:55:A:SER:HB2	9	0.37
(1,301)	1:55:A:SER:H	1:55:A:SER:HB2	16	0.37
(1,286)	1:45:A:ILE:HG13	1:56:A:ILE:HG22	9	0.37
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	2	0.37
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	2	0.37
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	3	0.37
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	4	0.37
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	16	0.37
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	19	0.37
(1,238)	1:48:A:LEU:HD21	1:83:A:ALA:HB1	20	0.37
(1,213)	1:36:A:ALA:HB2	1:37:A:ILE:HD13	10	0.37
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD21	3	0.37
(1,210)	1:45:A:ILE:HG12	1:56:A:ILE:HG22	13	0.37
(1,174)	1:164:A:GLN:HG2	1:164:A:GLN:HA	17	0.37
(1,132)	1:32:A:GLN:HA	1:32:A:GLN:HG2	10	0.37
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG23	7	0.37
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG21	10	0.37
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG21	13	0.37
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB2	20	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,88)	1:86:A:ARG:HA	1:86:A:ARG:HG3	2	0.37
(1,88)	1:86:A:ARG:HA	1:86:A:ARG:HG3	5	0.37
(1,88)	1:86:A:ARG:HA	1:86:A:ARG:HG3	6	0.37
(1,88)	1:86:A:ARG:HA	1:86:A:ARG:HG3	10	0.37
(1,88)	1:86:A:ARG:HA	1:86:A:ARG:HG3	14	0.37
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	9	0.36
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	4	0.36
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	4	0.36
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	14	0.36
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	14	0.36
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	20	0.36
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	20	0.36
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	5	0.36
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	7	0.36
(1,2269)	1:84:A:GLN:HE21	1:84:A:GLN:HB2	5	0.36
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG22	4	0.36
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG22	8	0.36
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB1	1	0.36
(1,2242)	1:18:A:MET:H	1:18:A:MET:HG2	4	0.36
(1,2239)	1:25:A:VAL:H	1:80:A:GLN:HB3	3	0.36
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG23	8	0.36
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG21	20	0.36
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	9	0.36
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	17	0.36
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	14	0.36
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	9	0.36
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB2	4	0.36
(1,2023)	1:70:A:MET:H	1:70:A:MET:HB2	14	0.36
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	2	0.36
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	5	0.36
(1,1993)	1:71:A:VAL:H	1:28:A:PHE:HA	17	0.36
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG21	8	0.36
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG23	12	0.36
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG23	13	0.36
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG23	19	0.36
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD12	5	0.36
(1,1950)	1:56:A:ILE:H	1:45:A:ILE:HD13	9	0.36
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	9	0.36
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG12	1	0.36
(1,1873)	1:113:A:ALA:H	1:151:A:GLN:H	13	0.36
(1,1873)	1:113:A:ALA:H	1:151:A:GLN:H	18	0.36
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	9	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	10	0.36
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG22	17	0.36
(1,1821)	1:165:A:MET:H	1:164:A:GLN:HG2	18	0.36
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB3	2	0.36
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB3	5	0.36
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	3	0.36
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	2	0.36
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG22	17	0.36
(1,1775)	1:70:A:MET:H	1:69:A:ARG:HB3	18	0.36
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	8	0.36
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	18	0.36
(1,1657)	1:93:A:GLU:H	1:93:A:GLU:HG2	16	0.36
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	2	0.36
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	6	0.36
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	8	0.36
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	12	0.36
(1,1641)	1:36:A:ALA:H	1:33:A:ALA:HA	14	0.36
(1,1634)	1:18:A:MET:H	1:18:A:MET:HB2	3	0.36
(1,1634)	1:18:A:MET:H	1:18:A:MET:HB2	18	0.36
(1,1626)	1:71:A:VAL:H	1:71:A:VAL:HB	17	0.36
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD13	15	0.36
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD13	18	0.36
(1,1606)	1:18:A:MET:HG2	1:18:A:MET:HB2	1	0.36
(1,1606)	1:18:A:MET:HG2	1:18:A:MET:HB2	2	0.36
(1,1606)	1:18:A:MET:HG2	1:18:A:MET:HB2	3	0.36
(1,1606)	1:18:A:MET:HG2	1:18:A:MET:HB2	5	0.36
(1,1606)	1:18:A:MET:HG2	1:18:A:MET:HB2	7	0.36
(1,1606)	1:18:A:MET:HG2	1:18:A:MET:HB2	11	0.36
(1,1606)	1:18:A:MET:HG2	1:18:A:MET:HB2	13	0.36
(1,1606)	1:18:A:MET:HG2	1:18:A:MET:HB2	14	0.36
(1,1606)	1:18:A:MET:HG2	1:18:A:MET:HB2	15	0.36
(1,1606)	1:18:A:MET:HG2	1:18:A:MET:HB2	16	0.36
(1,1606)	1:18:A:MET:HG2	1:18:A:MET:HB2	17	0.36
(1,1606)	1:18:A:MET:HG2	1:18:A:MET:HB2	19	0.36
(1,1585)	1:177:A:VAL:HG22	1:118:A:ARG:HD3	3	0.36
(1,1585)	1:177:A:VAL:HG22	1:118:A:ARG:HD3	5	0.36
(1,1559)	1:37:A:ILE:HD12	1:37:A:ILE:HG21	20	0.36
(1,1546)	1:166:A:ALA:HB2	1:130:A:LEU:HD12	18	0.36
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB3	3	0.36
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB3	15	0.36
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	16	0.36
(1,1501)	1:59:A:ALA:HB2	1:72:A:VAL:HG23	2	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	5	0.36
(1,1487)	1:38:A:ILE:HD12	1:58:A:ILE:H	18	0.36
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	14	0.36
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	20	0.36
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	2	0.36
(1,1407)	1:33:A:ALA:HB2	1:30:A:PRO:HB3	10	0.36
(1,1397)	1:91:A:LEU:HA	1:91:A:LEU:HD21	15	0.36
(1,1378)	1:174:A:LEU:HA	1:177:A:VAL:HG11	7	0.36
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	2	0.36
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	5	0.36
(1,1363)	1:170:A:ILE:H	1:170:A:ILE:HD13	5	0.36
(1,1344)	1:153:A:ILE:HG23	1:110:A:ARG:HD3	10	0.36
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG21	3	0.36
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG22	9	0.36
(1,1340)	1:110:A:ARG:H	1:109:A:ILE:HG23	10	0.36
(1,1308)	1:154:A:VAL:HG11	1:153:A:ILE:HA	14	0.36
(1,1301)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	18	0.36
(1,1289)	1:31:A:ALA:HB3	1:67:A:LYS:HA	7	0.36
(1,1289)	1:31:A:ALA:HB3	1:67:A:LYS:HA	10	0.36
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG22	3	0.36
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG22	7	0.36
(1,1273)	1:96:A:PHE:HZ	1:94:A:GLU:HG2	5	0.36
(1,1247)	1:58:A:ILE:HD12	1:58:A:ILE:HG21	10	0.36
(1,1242)	1:25:A:VAL:HG11	1:26:A:HIS:HA	13	0.36
(1,1242)	1:25:A:VAL:HG13	1:26:A:HIS:HA	17	0.36
(1,1241)	1:34:A:VAL:HG12	1:37:A:ILE:HB	20	0.36
(1,1181)	1:173:A:ILE:HD13	1:119:A:VAL:HA	4	0.36
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	20	0.36
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	14	0.36
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	7	0.36
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	12	0.36
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB3	1	0.36
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB3	2	0.36
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB3	15	0.36
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	8	0.36
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	10	0.36
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	16	0.36
(1,1072)	1:88:A:TYR:HE1	1:105:A:LEU:HB2	16	0.36
(1,1059)	1:48:A:LEU:HD13	1:51:A:PHE:HD1	15	0.36
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	4	0.36
(1,990)	1:110:A:ARG:HD3	1:153:A:ILE:HD11	8	0.36
(1,978)	1:29:A:ILE:HA	1:105:A:LEU:HD12	5	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,967)	1:94:A:GLU:HB2	1:96:A:PHE:HD1	13	0.36
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	2	0.36
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	3	0.36
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	4	0.36
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	15	0.36
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD22	16	0.36
(1,936)	1:115:A:ALA:HA	1:174:A:LEU:HD23	19	0.36
(1,896)	1:170:A:ILE:HG21	1:171:A:ARG:HA	2	0.36
(1,876)	1:109:A:ILE:HG22	1:107:A:THR:HG23	5	0.36
(1,849)	1:34:A:VAL:HG11	1:69:A:ARG:HB3	5	0.36
(1,849)	1:34:A:VAL:HG13	1:69:A:ARG:HB3	7	0.36
(1,849)	1:34:A:VAL:HG11	1:69:A:ARG:HB3	11	0.36
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG22	13	0.36
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	5	0.36
(1,826)	1:91:A:LEU:HD21	1:105:A:LEU:HD13	10	0.36
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG23	6	0.36
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG22	9	0.36
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG21	20	0.36
(1,774)	1:113:A:ALA:HB3	1:150:A:GLU:HG3	5	0.36
(1,765)	1:157:A:ILE:HD12	1:157:A:ILE:HB	1	0.36
(1,765)	1:157:A:ILE:HD13	1:157:A:ILE:HB	20	0.36
(1,759)	1:79:A:ALA:HB3	1:76:A:PRO:HG3	12	0.36
(1,759)	1:79:A:ALA:HB3	1:76:A:PRO:HG3	16	0.36
(1,748)	1:62:A:GLU:HG2	1:63:A:THR:HG22	17	0.36
(1,732)	1:153:A:ILE:HD12	1:153:A:ILE:HG13	13	0.36
(1,708)	1:83:A:ALA:HA	1:48:A:LEU:HD13	15	0.36
(1,703)	1:92:A:LYS:HE2	1:92:A:LYS:HG2	19	0.36
(1,684)	1:25:A:VAL:HG11	1:107:A:THR:HG22	3	0.36
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	2	0.36
(1,671)	1:116:A:ALA:HB3	1:140:A:VAL:HG22	4	0.36
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	13	0.36
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	18	0.36
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	2	0.36
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	5	0.36
(1,623)	1:21:A:GLU:HG2	1:21:A:GLU:HB3	16	0.36
(1,619)	1:78:A:GLU:HG2	1:79:A:ALA:HB2	1	0.36
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	2	0.36
(1,571)	1:86:A:ARG:HA	1:86:A:ARG:HB2	14	0.36
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG21	16	0.36
(1,544)	1:138:A:VAL:HA	1:138:A:VAL:HG13	4	0.36
(1,538)	1:157:A:ILE:HA	1:157:A:ILE:HD13	20	0.36
(1,525)	1:105:A:LEU:HD13	1:97:A:PHE:HD1	4	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,525)	1:105:A:LEU:HD12	1:97:A:PHE:HD1	19	0.36
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	12	0.36
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	14	0.36
(1,492)	1:103:A:VAL:HG12	1:103:A:VAL:HG23	8	0.36
(1,492)	1:103:A:VAL:HG12	1:103:A:VAL:HG23	14	0.36
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG13	18	0.36
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	16	0.36
(1,424)	1:57:A:LYS:HA	1:57:A:LYS:HD2	17	0.36
(1,409)	1:146:A:PRO:HB2	1:150:A:GLU:HA	7	0.36
(1,404)	1:102:A:GLU:H	1:101:A:GLU:HB2	14	0.36
(1,403)	1:130:A:LEU:H	1:130:A:LEU:HB3	11	0.36
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	10	0.36
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	12	0.36
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	14	0.36
(1,365)	1:58:A:ILE:HG13	1:58:A:ILE:HG23	5	0.36
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG22	11	0.36
(1,360)	1:71:A:VAL:HA	1:71:A:VAL:HB	5	0.36
(1,325)	1:159:A:HIS:HD2	1:159:A:HIS:HA	20	0.36
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	13	0.36
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	16	0.36
(1,296)	1:138:A:VAL:HG12	1:138:A:VAL:HG23	6	0.36
(1,290)	1:91:A:LEU:HD22	1:91:A:LEU:HB3	10	0.36
(1,290)	1:91:A:LEU:HD21	1:91:A:LEU:HB3	13	0.36
(1,290)	1:91:A:LEU:HD23	1:91:A:LEU:HB3	15	0.36
(1,288)	1:111:A:VAL:HG23	1:174:A:LEU:HD22	5	0.36
(1,286)	1:45:A:ILE:HG13	1:56:A:ILE:HG22	8	0.36
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG11	13	0.36
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	1	0.36
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	4	0.36
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	9	0.36
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	10	0.36
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	16	0.36
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	20	0.36
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	5	0.36
(1,243)	1:33:A:ALA:HB2	1:96:A:PHE:HB2	2	0.36
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG22	12	0.36
(1,220)	1:74:A:THR:HG21	1:55:A:SER:HB2	1	0.36
(1,210)	1:45:A:ILE:HG12	1:56:A:ILE:HG21	18	0.36
(1,209)	1:52:A:ALA:HB1	1:54:A:ALA:HB2	16	0.36
(1,157)	1:94:A:GLU:HA	1:94:A:GLU:HG2	15	0.36
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG21	8	0.36
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG23	12	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG22	14	0.36
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG22	15	0.36
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB3	7	0.36
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB1	8	0.36
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB1	14	0.36
(1,88)	1:86:A:ARG:HA	1:86:A:ARG:HG3	7	0.36
(1,88)	1:86:A:ARG:HA	1:86:A:ARG:HG3	13	0.36
(1,88)	1:86:A:ARG:HA	1:86:A:ARG:HG3	18	0.36
(1,42)	1:51:A:PHE:HD1	1:51:A:PHE:HA	8	0.36
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	13	0.35
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	18	0.35
(1,2479)	2:1:B:U:H1'	2:2:B:C:H5	16	0.35
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	15	0.35
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG21	14	0.35
(1,2239)	1:25:A:VAL:H	1:80:A:GLN:HB3	2	0.35
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	9	0.35
(1,2219)	1:158:A:GLY:H	1:136:A:ALA:HA	3	0.35
(1,2214)	1:32:A:GLN:H	1:32:A:GLN:HG2	10	0.35
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	11	0.35
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	19	0.35
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	7	0.35
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG21	11	0.35
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG22	14	0.35
(1,2162)	1:101:A:GLU:H	1:100:A:LYS:HA	14	0.35
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	20	0.35
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	3	0.35
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	6	0.35
(1,2091)	1:96:A:PHE:H	1:96:A:PHE:HD1	16	0.35
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	15	0.35
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	7	0.35
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	12	0.35
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB3	13	0.35
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	15	0.35
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	7	0.35
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	18	0.35
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG23	10	0.35
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG23	17	0.35
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD11	4	0.35
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG12	6	0.35
(1,1915)	1:151:A:GLN:H	1:152:A:VAL:HG13	10	0.35
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD1	13	0.35
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	13	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	19	0.35
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	11	0.35
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	13	0.35
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG22	20	0.35
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	18	0.35
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	1	0.35
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	1	0.35
(1,1701)	1:91:A:LEU:H	1:91:A:LEU:HG	3	0.35
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	16	0.35
(1,1641)	1:36:A:ALA:H	1:33:A:ALA:HA	15	0.35
(1,1626)	1:71:A:VAL:H	1:71:A:VAL:HB	19	0.35
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD11	16	0.35
(1,1601)	1:134:A:THR:HG22	1:165:A:MET:HG2	6	0.35
(1,1585)	1:177:A:VAL:HG22	1:118:A:ARG:HD3	15	0.35
(1,1585)	1:177:A:VAL:HG22	1:118:A:ARG:HD3	18	0.35
(1,1555)	1:48:A:LEU:HD22	1:87:A:ILE:HG21	10	0.35
(1,1535)	1:170:A:ILE:HD11	1:170:A:ILE:HG22	2	0.35
(1,1535)	1:170:A:ILE:HD11	1:170:A:ILE:HG21	6	0.35
(1,1535)	1:170:A:ILE:HD11	1:170:A:ILE:HG23	12	0.35
(1,1533)	1:120:A:ILE:HG23	1:120:A:ILE:HA	19	0.35
(1,1530)	1:174:A:LEU:HD21	1:177:A:VAL:HG13	4	0.35
(1,1530)	1:174:A:LEU:HD23	1:177:A:VAL:HG12	5	0.35
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB1	11	0.35
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB3	13	0.35
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB1	16	0.35
(1,1501)	1:59:A:ALA:HB2	1:72:A:VAL:HG21	11	0.35
(1,1501)	1:59:A:ALA:HB1	1:72:A:VAL:HG22	18	0.35
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	8	0.35
(1,1495)	1:174:A:LEU:HD23	1:118:A:ARG:HG3	5	0.35
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	4	0.35
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB1	8	0.35
(1,1407)	1:33:A:ALA:HB3	1:30:A:PRO:HB3	1	0.35
(1,1407)	1:33:A:ALA:HB3	1:30:A:PRO:HB3	5	0.35
(1,1407)	1:33:A:ALA:HB3	1:30:A:PRO:HB3	7	0.35
(1,1391)	1:29:A:ILE:H	1:29:A:ILE:HG23	18	0.35
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	1	0.35
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	6	0.35
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	8	0.35
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	9	0.35
(1,1365)	1:48:A:LEU:HD22	1:86:A:ARG:HB2	14	0.35
(1,1324)	1:135:A:ALA:HB2	1:135:A:ALA:H	3	0.35
(1,1312)	1:119:A:VAL:HA	1:126:A:THR:HG22	6	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG21	13	0.35
(1,1289)	1:31:A:ALA:HB2	1:67:A:LYS:HA	11	0.35
(1,1284)	1:29:A:ILE:HD12	1:30:A:PRO:HD2	7	0.35
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG23	2	0.35
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG23	17	0.35
(1,1281)	1:29:A:ILE:HD13	1:34:A:VAL:HA	7	0.35
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD12	3	0.35
(1,1260)	1:92:A:LYS:HE2	1:92:A:LYS:HD3	15	0.35
(1,1242)	1:25:A:VAL:HG13	1:26:A:HIS:HA	15	0.35
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD13	6	0.35
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	2	0.35
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	1	0.35
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	4	0.35
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	14	0.35
(1,1134)	1:104:A:LYS:H	1:104:A:LYS:HB3	18	0.35
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	9	0.35
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	13	0.35
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB2	7	0.35
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	1	0.35
(1,1079)	1:27:A:VAL:H	1:27:A:VAL:HB	18	0.35
(1,1049)	1:97:A:PHE:HD1	1:91:A:LEU:HG	10	0.35
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	17	0.35
(1,1045)	1:97:A:PHE:HD1	1:97:A:PHE:HB3	16	0.35
(1,1029)	1:28:A:PHE:HD1	1:106:A:GLU:HG2	3	0.35
(1,1006)	1:83:A:ALA:HB3	1:73:A:ILE:HB	8	0.35
(1,999)	1:157:A:ILE:HG23	1:104:A:LYS:HA	18	0.35
(1,998)	1:157:A:ILE:HG22	1:104:A:LYS:HE3	2	0.35
(1,994)	1:18:A:MET:HA	1:18:A:MET:HG2	6	0.35
(1,994)	1:18:A:MET:HA	1:18:A:MET:HG2	18	0.35
(1,991)	1:142:A:ARG:HA	1:142:A:ARG:HD3	15	0.35
(1,971)	1:52:A:ALA:HB1	1:56:A:ILE:HD13	5	0.35
(1,971)	1:52:A:ALA:HB2	1:56:A:ILE:HD12	6	0.35
(1,969)	1:33:A:ALA:HA	1:96:A:PHE:HD2	1	0.35
(1,961)	1:178:A:LYS:HE2	1:178:A:LYS:HB2	2	0.35
(1,961)	1:178:A:LYS:HE2	1:178:A:LYS:HB2	4	0.35
(1,961)	1:178:A:LYS:HE2	1:178:A:LYS:HB2	6	0.35
(1,961)	1:178:A:LYS:HE2	1:178:A:LYS:HB2	7	0.35
(1,961)	1:178:A:LYS:HE2	1:178:A:LYS:HB2	12	0.35
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	1	0.35
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	6	0.35
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	9	0.35
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	10	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	11	0.35
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	12	0.35
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	16	0.35
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG12	1	0.35
(1,947)	1:63:A:THR:HB	1:62:A:GLU:HG3	11	0.35
(1,947)	1:63:A:THR:HB	1:62:A:GLU:HG3	20	0.35
(1,941)	1:153:A:ILE:HG22	1:155:A:LYS:HA	14	0.35
(1,941)	1:153:A:ILE:HG21	1:155:A:LYS:HA	20	0.35
(1,938)	1:24:A:THR:HG22	1:26:A:HIS:HD2	5	0.35
(1,938)	1:24:A:THR:HG21	1:26:A:HIS:HD2	6	0.35
(1,938)	1:24:A:THR:HG23	1:26:A:HIS:HD2	20	0.35
(1,917)	1:74:A:THR:HG22	1:24:A:THR:HA	3	0.35
(1,890)	1:45:A:ILE:HG21	1:46:A:LYS:HB2	2	0.35
(1,890)	1:45:A:ILE:HG23	1:46:A:LYS:HB2	16	0.35
(1,876)	1:109:A:ILE:HG22	1:107:A:THR:HG21	15	0.35
(1,876)	1:109:A:ILE:HG23	1:107:A:THR:HG22	19	0.35
(1,863)	1:87:A:ILE:HG21	1:84:A:GLN:HA	7	0.35
(1,849)	1:34:A:VAL:HG11	1:69:A:ARG:HB3	3	0.35
(1,849)	1:34:A:VAL:HG12	1:69:A:ARG:HB3	6	0.35
(1,834)	1:45:A:ILE:HD11	1:57:A:LYS:HA	15	0.35
(1,775)	1:113:A:ALA:HB1	1:152:A:VAL:HG13	16	0.35
(1,771)	1:156:A:ILE:HD12	1:163:A:SER:HA	3	0.35
(1,765)	1:157:A:ILE:HD13	1:157:A:ILE:HB	6	0.35
(1,765)	1:157:A:ILE:HD12	1:157:A:ILE:HB	12	0.35
(1,759)	1:79:A:ALA:HB2	1:76:A:PRO:HG3	1	0.35
(1,759)	1:79:A:ALA:HB3	1:76:A:PRO:HG3	9	0.35
(1,732)	1:153:A:ILE:HD12	1:153:A:ILE:HG13	4	0.35
(1,732)	1:153:A:ILE:HD11	1:153:A:ILE:HG13	9	0.35
(1,723)	1:14:A:PHE:HA	1:14:A:PHE:HB3	1	0.35
(1,723)	1:14:A:PHE:HA	1:14:A:PHE:HB3	3	0.35
(1,723)	1:14:A:PHE:HA	1:14:A:PHE:HB3	5	0.35
(1,723)	1:14:A:PHE:HA	1:14:A:PHE:HB3	6	0.35
(1,723)	1:14:A:PHE:HA	1:14:A:PHE:HB3	7	0.35
(1,723)	1:14:A:PHE:HA	1:14:A:PHE:HB3	8	0.35
(1,723)	1:14:A:PHE:HA	1:14:A:PHE:HB3	9	0.35
(1,723)	1:14:A:PHE:HA	1:14:A:PHE:HB3	10	0.35
(1,723)	1:14:A:PHE:HA	1:14:A:PHE:HB3	11	0.35
(1,723)	1:14:A:PHE:HA	1:14:A:PHE:HB3	15	0.35
(1,723)	1:14:A:PHE:HA	1:14:A:PHE:HB3	16	0.35
(1,723)	1:14:A:PHE:HA	1:14:A:PHE:HB3	17	0.35
(1,723)	1:14:A:PHE:HA	1:14:A:PHE:HB3	18	0.35
(1,723)	1:14:A:PHE:HA	1:14:A:PHE:HB3	19	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,723)	1:14:A:PHE:HA	1:14:A:PHE:HB3	20	0.35
(1,708)	1:83:A:ALA:HA	1:48:A:LEU:HD11	17	0.35
(1,708)	1:83:A:ALA:HA	1:48:A:LEU:HD12	18	0.35
(1,684)	1:25:A:VAL:HG12	1:107:A:THR:HG23	1	0.35
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	17	0.35
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD12	12	0.35
(1,585)	1:22:A:GLN:HA	1:22:A:GLN:HG2	13	0.35
(1,515)	1:122:A:LYS:H	1:122:A:LYS:HD3	1	0.35
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	7	0.35
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	9	0.35
(1,492)	1:103:A:VAL:HG11	1:103:A:VAL:HG23	4	0.35
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	3	0.35
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	17	0.35
(1,424)	1:57:A:LYS:HA	1:57:A:LYS:HD2	14	0.35
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB3	13	0.35
(1,416)	1:27:A:VAL:HG23	1:27:A:VAL:HG11	2	0.35
(1,400)	1:138:A:VAL:HG22	1:154:A:VAL:HG21	13	0.35
(1,400)	1:138:A:VAL:HG23	1:154:A:VAL:HG22	19	0.35
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG21	10	0.35
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG12	6	0.35
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG12	15	0.35
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG13	18	0.35
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB2	5	0.35
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	13	0.35
(1,290)	1:91:A:LEU:HD22	1:91:A:LEU:HB3	6	0.35
(1,286)	1:45:A:ILE:HG13	1:56:A:ILE:HG21	5	0.35
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	18	0.35
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG21	12	0.35
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	5	0.35
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	8	0.35
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	13	0.35
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	9	0.35
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	10	0.35
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	19	0.35
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	20	0.35
(1,244)	1:29:A:ILE:HD11	1:29:A:ILE:HG22	16	0.35
(1,244)	1:29:A:ILE:HD13	1:29:A:ILE:HG22	18	0.35
(1,243)	1:33:A:ALA:HB3	1:96:A:PHE:HB2	9	0.35
(1,237)	1:37:A:ILE:HG23	1:34:A:VAL:HA	20	0.35
(1,232)	1:111:A:VAL:HG11	1:111:A:VAL:HG23	2	0.35
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG22	4	0.35
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG22	17	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,220)	1:74:A:THR:HG23	1:55:A:SER:HB2	4	0.35
(1,220)	1:74:A:THR:HG22	1:55:A:SER:HB2	13	0.35
(1,210)	1:45:A:ILE:HG12	1:56:A:ILE:HG21	11	0.35
(1,174)	1:164:A:GLN:HG2	1:164:A:GLN:HA	1	0.35
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	4	0.35
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	5	0.35
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	7	0.35
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	12	0.35
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	13	0.35
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	14	0.35
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	15	0.35
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	18	0.35
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	20	0.35
(1,125)	1:112:A:PRO:HD3	1:174:A:LEU:HD21	19	0.35
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB1	9	0.35
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB1	19	0.35
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG22	4	0.35
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG22	12	0.35
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	11	0.34
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	12	0.34
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	15	0.34
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	20	0.34
(1,2479)	2:1:B:U:H1'	2:2:B:C:H5	18	0.34
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	2	0.34
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	2	0.34
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	13	0.34
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	13	0.34
(1,2455)	1:118:A:ARG:HD3	2:1:B:U:H1'	16	0.34
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	4	0.34
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	19	0.34
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	11	0.34
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	20	0.34
(1,2281)	1:50:A:ARG:H	1:49:A:SER:HB2	12	0.34
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	5	0.34
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	6	0.34
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	9	0.34
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	9	0.34
(1,2180)	1:155:A:LYS:H	1:153:A:ILE:HG21	15	0.34
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	11	0.34
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	14	0.34
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	15	0.34
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	20	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	4	0.34
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB1	9	0.34
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	1	0.34
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	3	0.34
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	15	0.34
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	17	0.34
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG22	7	0.34
(1,1993)	1:71:A:VAL:H	1:28:A:PHE:HA	14	0.34
(1,1920)	1:55:A:SER:H	1:56:A:ILE:H	19	0.34
(1,1914)	1:100:A:LYS:H	1:100:A:LYS:HG2	12	0.34
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	15	0.34
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD1	10	0.34
(1,1885)	1:155:A:LYS:H	1:139:A:VAL:HG12	19	0.34
(1,1873)	1:113:A:ALA:H	1:151:A:GLN:H	14	0.34
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	16	0.34
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	18	0.34
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	13	0.34
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	10	0.34
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG23	9	0.34
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	16	0.34
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB3	4	0.34
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	1	0.34
(1,1803)	1:116:A:ALA:H	1:115:A:ALA:HB2	19	0.34
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	5	0.34
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	15	0.34
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	2	0.34
(1,1619)	1:157:A:ILE:HG23	1:104:A:LYS:HD2	16	0.34
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	2	0.34
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	4	0.34
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	15	0.34
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	19	0.34
(1,1600)	1:138:A:VAL:HG13	1:127:A:VAL:HG21	17	0.34
(1,1576)	1:29:A:ILE:HD12	1:33:A:ALA:HB1	8	0.34
(1,1555)	1:48:A:LEU:HD22	1:87:A:ILE:HG22	8	0.34
(1,1553)	1:87:A:ILE:HD11	1:29:A:ILE:HG21	17	0.34
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG21	18	0.34
(1,1535)	1:170:A:ILE:HD12	1:170:A:ILE:HG22	16	0.34
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB1	2	0.34
(1,1501)	1:59:A:ALA:HB3	1:72:A:VAL:HG22	5	0.34
(1,1501)	1:59:A:ALA:HB2	1:72:A:VAL:HG21	6	0.34
(1,1501)	1:59:A:ALA:HB1	1:72:A:VAL:HG21	8	0.34
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	9	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1488)	1:45:A:ILE:HD13	1:45:A:ILE:HG23	12	0.34
(1,1488)	1:45:A:ILE:HD13	1:45:A:ILE:HG22	13	0.34
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	15	0.34
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	5	0.34
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	10	0.34
(1,1407)	1:33:A:ALA:HB2	1:30:A:PRO:HB3	2	0.34
(1,1407)	1:33:A:ALA:HB2	1:30:A:PRO:HB3	8	0.34
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD12	5	0.34
(1,1363)	1:170:A:ILE:H	1:170:A:ILE:HD13	11	0.34
(1,1308)	1:154:A:VAL:HG11	1:153:A:ILE:HA	17	0.34
(1,1289)	1:31:A:ALA:HB2	1:67:A:LYS:HA	2	0.34
(1,1289)	1:31:A:ALA:HB2	1:67:A:LYS:HA	4	0.34
(1,1289)	1:31:A:ALA:HB2	1:67:A:LYS:HA	6	0.34
(1,1289)	1:31:A:ALA:HB3	1:67:A:LYS:HA	19	0.34
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD12	20	0.34
(1,1284)	1:29:A:ILE:HD11	1:30:A:PRO:HD2	5	0.34
(1,1284)	1:29:A:ILE:HD12	1:30:A:PRO:HD2	6	0.34
(1,1284)	1:29:A:ILE:HD13	1:30:A:PRO:HD2	10	0.34
(1,1247)	1:58:A:ILE:HD12	1:58:A:ILE:HG21	9	0.34
(1,1242)	1:25:A:VAL:HG12	1:26:A:HIS:HA	3	0.34
(1,1242)	1:25:A:VAL:HG13	1:26:A:HIS:HA	14	0.34
(1,1241)	1:34:A:VAL:HG11	1:37:A:ILE:HB	17	0.34
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD13	3	0.34
(1,1181)	1:173:A:ILE:HD11	1:119:A:VAL:HA	1	0.34
(1,1181)	1:173:A:ILE:HD11	1:119:A:VAL:HA	6	0.34
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	10	0.34
(1,1175)	1:84:A:GLN:HA	1:87:A:ILE:HB	11	0.34
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD13	19	0.34
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	13	0.34
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	17	0.34
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	18	0.34
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	20	0.34
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	11	0.34
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	12	0.34
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	14	0.34
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	19	0.34
(1,1088)	1:106:A:GLU:H	1:105:A:LEU:HD12	6	0.34
(1,1031)	1:68:A:VAL:HG11	1:28:A:PHE:HD1	12	0.34
(1,1031)	1:68:A:VAL:HG12	1:28:A:PHE:HD1	17	0.34
(1,1006)	1:83:A:ALA:HB1	1:73:A:ILE:HB	3	0.34
(1,994)	1:18:A:MET:HA	1:18:A:MET:HG2	12	0.34
(1,990)	1:110:A:ARG:HD3	1:153:A:ILE:HD13	2	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,990)	1:110:A:ARG:HD3	1:153:A:ILE:HD13	5	0.34
(1,966)	1:91:A:LEU:HG	1:97:A:PHE:HE1	19	0.34
(1,961)	1:178:A:LYS:HE2	1:178:A:LYS:HB2	5	0.34
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	5	0.34
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	8	0.34
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	13	0.34
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	14	0.34
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	17	0.34
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	19	0.34
(1,947)	1:63:A:THR:HB	1:62:A:GLU:HG3	17	0.34
(1,941)	1:153:A:ILE:HG22	1:155:A:LYS:HA	19	0.34
(1,901)	1:90:A:LYS:HE2	1:94:A:GLU:HG3	3	0.34
(1,901)	1:90:A:LYS:HE2	1:94:A:GLU:HG3	5	0.34
(1,896)	1:170:A:ILE:HG21	1:171:A:ARG:HA	17	0.34
(1,890)	1:45:A:ILE:HG22	1:46:A:LYS:HB2	6	0.34
(1,890)	1:45:A:ILE:HG22	1:46:A:LYS:HB2	20	0.34
(1,876)	1:109:A:ILE:HG22	1:107:A:THR:HG22	11	0.34
(1,863)	1:87:A:ILE:HG22	1:84:A:GLN:HA	1	0.34
(1,856)	1:56:A:ILE:HD13	1:49:A:SER:HA	7	0.34
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG23	8	0.34
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG23	4	0.34
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG23	8	0.34
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG23	17	0.34
(1,820)	1:119:A:VAL:HG11	1:119:A:VAL:HG21	14	0.34
(1,820)	1:119:A:VAL:HG11	1:119:A:VAL:HG22	17	0.34
(1,820)	1:119:A:VAL:HG12	1:119:A:VAL:HG21	18	0.34
(1,812)	1:174:A:LEU:HD13	1:111:A:VAL:HG22	1	0.34
(1,775)	1:113:A:ALA:HB1	1:152:A:VAL:HG11	8	0.34
(1,765)	1:157:A:ILE:HD11	1:157:A:ILE:HB	4	0.34
(1,684)	1:25:A:VAL:HG11	1:107:A:THR:HG23	4	0.34
(1,673)	1:104:A:LYS:HG2	1:104:A:LYS:HE2	12	0.34
(1,671)	1:116:A:ALA:HB1	1:140:A:VAL:HG23	7	0.34
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD12	15	0.34
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG22	1	0.34
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	6	0.34
(1,573)	1:125:A:LYS:HA	1:128:A:ASN:HB3	8	0.34
(1,571)	1:86:A:ARG:HA	1:86:A:ARG:HB2	13	0.34
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG21	5	0.34
(1,546)	1:55:A:SER:HA	1:55:A:SER:HB2	12	0.34
(1,516)	1:122:A:LYS:H	1:122:A:LYS:HD2	10	0.34
(1,492)	1:103:A:VAL:HG11	1:103:A:VAL:HG22	11	0.34
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD12	12	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,448)	1:158:A:GLY:HA3	1:156:A:ILE:HG21	14	0.34
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG13	3	0.34
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	4	0.34
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	1	0.34
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	4	0.34
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	5	0.34
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	6	0.34
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	8	0.34
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	10	0.34
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	12	0.34
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	13	0.34
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	15	0.34
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	19	0.34
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	20	0.34
(1,403)	1:130:A:LEU:H	1:130:A:LEU:HB3	14	0.34
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG23	2	0.34
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG12	1	0.34
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG11	3	0.34
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG11	7	0.34
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG13	13	0.34
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG13	14	0.34
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	14	0.34
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	20	0.34
(1,307)	1:91:A:LEU:HG	1:105:A:LEU:HG	10	0.34
(1,301)	1:55:A:SER:H	1:55:A:SER:HB2	6	0.34
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	6	0.34
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	11	0.34
(1,290)	1:91:A:LEU:HD22	1:91:A:LEU:HB3	1	0.34
(1,290)	1:91:A:LEU:HD21	1:91:A:LEU:HB3	3	0.34
(1,290)	1:91:A:LEU:HD22	1:91:A:LEU:HB3	4	0.34
(1,290)	1:91:A:LEU:HD21	1:91:A:LEU:HB3	5	0.34
(1,290)	1:91:A:LEU:HD22	1:91:A:LEU:HB3	9	0.34
(1,286)	1:45:A:ILE:HG13	1:56:A:ILE:HG22	7	0.34
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG23	2	0.34
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	1	0.34
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	6	0.34
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	11	0.34
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	12	0.34
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	14	0.34
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	15	0.34
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	17	0.34
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	18	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	19	0.34
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	12	0.34
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	13	0.34
(1,232)	1:111:A:VAL:HG13	1:111:A:VAL:HG22	3	0.34
(1,229)	1:119:A:VAL:HG12	1:116:A:ALA:HA	11	0.34
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG21	9	0.34
(1,190)	1:151:A:GLN:HA	1:151:A:GLN:HG3	19	0.34
(1,183)	1:22:A:GLN:HB2	1:22:A:GLN:HG3	13	0.34
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	1	0.34
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	2	0.34
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	3	0.34
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	5	0.34
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	6	0.34
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	11	0.34
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	12	0.34
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	14	0.34
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	15	0.34
(1,164)	1:73:A:ILE:HB	1:84:A:GLN:HG2	17	0.34
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	3	0.34
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	10	0.34
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	4	0.34
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	9	0.34
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	16	0.34
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	11	0.34
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	17	0.34
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	19	0.34
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	15	0.34
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG23	20	0.34
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB2	2	0.34
(1,74)	1:144:A:GLN:HA	1:144:A:GLN:HG2	2	0.34
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	17	0.33
(1,2479)	2:1:B:U:H1'	2:2:B:C:H5	11	0.33
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	19	0.33
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	19	0.33
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	3	0.33
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG21	9	0.33
(1,2239)	1:25:A:VAL:H	1:80:A:GLN:HB3	5	0.33
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	2	0.33
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	7	0.33
(1,2211)	1:119:A:VAL:H	1:118:A:ARG:HB2	9	0.33
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	9	0.33
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	1	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	3	0.33
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	4	0.33
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	6	0.33
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	7	0.33
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	8	0.33
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	9	0.33
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	13	0.33
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	17	0.33
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	5	0.33
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	11	0.33
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	12	0.33
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	19	0.33
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG13	3	0.33
(1,1964)	1:108:A:HIS:H	1:28:A:PHE:HB3	20	0.33
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	11	0.33
(1,1885)	1:155:A:LYS:H	1:139:A:VAL:HG12	15	0.33
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB3	12	0.33
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	1	0.33
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	11	0.33
(1,1858)	1:139:A:VAL:H	1:138:A:VAL:HG12	20	0.33
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	7	0.33
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG21	4	0.33
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG21	18	0.33
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG21	19	0.33
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	10	0.33
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	1	0.33
(1,1791)	1:79:A:ALA:H	1:78:A:GLU:HB3	6	0.33
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	5	0.33
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	9	0.33
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	13	0.33
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	5	0.33
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	8	0.33
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	10	0.33
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	7	0.33
(1,1666)	1:101:A:GLU:H	1:101:A:GLU:HG2	12	0.33
(1,1664)	1:101:A:GLU:H	1:100:A:LYS:HG2	3	0.33
(1,1657)	1:93:A:GLU:H	1:93:A:GLU:HG2	17	0.33
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	11	0.33
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	17	0.33
(1,1632)	1:139:A:VAL:H	1:138:A:VAL:HG22	11	0.33
(1,1628)	1:74:A:THR:H	1:56:A:ILE:HA	16	0.33
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	7	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	9	0.33
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	17	0.33
(1,1600)	1:138:A:VAL:HG11	1:127:A:VAL:HG23	7	0.33
(1,1600)	1:138:A:VAL:HG12	1:127:A:VAL:HG23	9	0.33
(1,1600)	1:138:A:VAL:HG11	1:127:A:VAL:HG21	11	0.33
(1,1600)	1:138:A:VAL:HG12	1:127:A:VAL:HG21	13	0.33
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD12	18	0.33
(1,1585)	1:177:A:VAL:HG21	1:118:A:ARG:HD3	2	0.33
(1,1585)	1:177:A:VAL:HG22	1:118:A:ARG:HD3	12	0.33
(1,1576)	1:29:A:ILE:HD11	1:33:A:ALA:HB3	15	0.33
(1,1559)	1:37:A:ILE:HD12	1:37:A:ILE:HG23	5	0.33
(1,1555)	1:48:A:LEU:HD22	1:87:A:ILE:HG23	5	0.33
(1,1553)	1:87:A:ILE:HD13	1:29:A:ILE:HG22	9	0.33
(1,1553)	1:87:A:ILE:HD11	1:29:A:ILE:HG22	13	0.33
(1,1553)	1:87:A:ILE:HD12	1:29:A:ILE:HG23	18	0.33
(1,1551)	1:118:A:ARG:HD3	1:173:A:ILE:HG21	9	0.33
(1,1513)	1:157:A:ILE:HD13	1:139:A:VAL:HB	11	0.33
(1,1501)	1:59:A:ALA:HB2	1:72:A:VAL:HG23	12	0.33
(1,1501)	1:59:A:ALA:HB2	1:72:A:VAL:HG23	13	0.33
(1,1501)	1:59:A:ALA:HB2	1:72:A:VAL:HG21	17	0.33
(1,1495)	1:174:A:LEU:HD21	1:118:A:ARG:HG3	15	0.33
(1,1488)	1:45:A:ILE:HD11	1:45:A:ILE:HG21	9	0.33
(1,1488)	1:45:A:ILE:HD12	1:45:A:ILE:HG21	17	0.33
(1,1475)	1:31:A:ALA:H	1:30:A:PRO:HB2	18	0.33
(1,1463)	1:148:A:GLU:H	1:148:A:GLU:HG3	6	0.33
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	7	0.33
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	8	0.33
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	3	0.33
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	4	0.33
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD11	6	0.33
(1,1393)	1:90:A:LYS:HG2	1:90:A:LYS:HD2	8	0.33
(1,1386)	1:87:A:ILE:HD12	1:105:A:LEU:HD23	17	0.33
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD12	11	0.33
(1,1362)	1:170:A:ILE:HG12	1:170:A:ILE:HB	6	0.33
(1,1273)	1:96:A:PHE:HZ	1:94:A:GLU:HG2	2	0.33
(1,1249)	1:34:A:VAL:HA	1:58:A:ILE:HD12	18	0.33
(1,1249)	1:34:A:VAL:HA	1:58:A:ILE:HD13	19	0.33
(1,1242)	1:25:A:VAL:HG13	1:26:A:HIS:HA	6	0.33
(1,1242)	1:25:A:VAL:HG11	1:26:A:HIS:HA	11	0.33
(1,1242)	1:25:A:VAL:HG11	1:26:A:HIS:HA	18	0.33
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	6	0.33
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	2	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	5	0.33
(1,1134)	1:104:A:LYS:H	1:104:A:LYS:HB3	15	0.33
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	6	0.33
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	7	0.33
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	8	0.33
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	10	0.33
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	15	0.33
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	17	0.33
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	18	0.33
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB3	3	0.33
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	5	0.33
(1,1071)	1:105:A:LEU:HD11	1:88:A:TYR:HE1	18	0.33
(1,1042)	1:96:A:PHE:HD1	1:94:A:GLU:HB3	1	0.33
(1,1031)	1:68:A:VAL:HG13	1:28:A:PHE:HD1	19	0.33
(1,1015)	1:170:A:ILE:HD13	1:130:A:LEU:HD13	6	0.33
(1,1014)	1:166:A:ALA:HB3	1:134:A:THR:HG21	6	0.33
(1,999)	1:157:A:ILE:HG21	1:104:A:LYS:HA	11	0.33
(1,990)	1:110:A:ARG:HD3	1:153:A:ILE:HD11	3	0.33
(1,978)	1:29:A:ILE:HA	1:105:A:LEU:HD13	20	0.33
(1,967)	1:94:A:GLU:HB2	1:96:A:PHE:HD2	10	0.33
(1,961)	1:178:A:LYS:HE2	1:178:A:LYS:HB2	1	0.33
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	18	0.33
(1,958)	1:118:A:ARG:HD2	1:177:A:VAL:HG11	6	0.33
(1,947)	1:63:A:THR:HB	1:62:A:GLU:HG2	12	0.33
(1,947)	1:63:A:THR:HB	1:62:A:GLU:HG3	13	0.33
(1,938)	1:24:A:THR:HG23	1:26:A:HIS:HD2	7	0.33
(1,938)	1:24:A:THR:HG21	1:26:A:HIS:HD2	14	0.33
(1,938)	1:24:A:THR:HG21	1:26:A:HIS:HD2	19	0.33
(1,917)	1:74:A:THR:HG22	1:24:A:THR:HA	4	0.33
(1,914)	1:68:A:VAL:HG22	1:28:A:PHE:HE1	7	0.33
(1,890)	1:45:A:ILE:HG21	1:46:A:LYS:HB2	12	0.33
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	10	0.33
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	12	0.33
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	13	0.33
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB2	18	0.33
(1,849)	1:34:A:VAL:HG12	1:69:A:ARG:HB3	9	0.33
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG23	19	0.33
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD11	7	0.33
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG22	17	0.33
(1,775)	1:113:A:ALA:HB1	1:152:A:VAL:HG12	1	0.33
(1,765)	1:157:A:ILE:HD11	1:157:A:ILE:HB	7	0.33
(1,765)	1:157:A:ILE:HD13	1:157:A:ILE:HB	15	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,765)	1:157:A:ILE:HD13	1:157:A:ILE:HB	18	0.33
(1,765)	1:157:A:ILE:HD11	1:157:A:ILE:HB	19	0.33
(1,759)	1:79:A:ALA:HB2	1:76:A:PRO:HG3	5	0.33
(1,756)	1:92:A:LYS:HG2	1:103:A:VAL:HG23	11	0.33
(1,745)	1:145:A:THR:HG22	1:146:A:PRO:HD3	10	0.33
(1,742)	1:156:A:ILE:HD11	1:166:A:ALA:HB1	13	0.33
(1,734)	1:153:A:ILE:HD13	1:153:A:ILE:HB	12	0.33
(1,729)	1:29:A:ILE:HD11	1:34:A:VAL:HG12	5	0.33
(1,708)	1:83:A:ALA:HA	1:48:A:LEU:HD12	20	0.33
(1,671)	1:116:A:ALA:HB2	1:140:A:VAL:HG23	9	0.33
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	17	0.33
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD11	7	0.33
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG22	4	0.33
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG21	7	0.33
(1,577)	1:176:A:GLN:HA	1:176:A:GLN:HG2	18	0.33
(1,571)	1:86:A:ARG:HA	1:86:A:ARG:HB2	9	0.33
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG21	10	0.33
(1,516)	1:122:A:LYS:H	1:122:A:LYS:HD2	7	0.33
(1,516)	1:122:A:LYS:H	1:122:A:LYS:HD2	13	0.33
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	4	0.33
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	13	0.33
(1,449)	1:71:A:VAL:H	1:71:A:VAL:HG21	7	0.33
(1,448)	1:158:A:GLY:HA3	1:156:A:ILE:HG21	9	0.33
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG13	2	0.33
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG11	9	0.33
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG12	12	0.33
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	11	0.33
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB2	16	0.33
(1,409)	1:146:A:PRO:HB2	1:150:A:GLU:HA	4	0.33
(1,400)	1:138:A:VAL:HG22	1:154:A:VAL:HG23	7	0.33
(1,394)	1:87:A:ILE:H	1:84:A:GLN:HB3	13	0.33
(1,370)	1:154:A:VAL:HG22	1:119:A:VAL:HG22	18	0.33
(1,360)	1:71:A:VAL:HA	1:71:A:VAL:HB	1	0.33
(1,360)	1:71:A:VAL:HA	1:71:A:VAL:HB	2	0.33
(1,360)	1:71:A:VAL:HA	1:71:A:VAL:HB	15	0.33
(1,352)	1:59:A:ALA:HB1	1:60:A:PRO:HD3	5	0.33
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG12	5	0.33
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG12	11	0.33
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG13	20	0.33
(1,296)	1:138:A:VAL:HG11	1:138:A:VAL:HG23	13	0.33
(1,290)	1:91:A:LEU:HD22	1:91:A:LEU:HB3	2	0.33
(1,290)	1:91:A:LEU:HD21	1:91:A:LEU:HB3	7	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,290)	1:91:A:LEU:HD21	1:91:A:LEU:HB3	18	0.33
(1,287)	1:14:A:PHE:HA	1:14:A:PHE:HB2	2	0.33
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG23	16	0.33
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	2	0.33
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	11	0.33
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	17	0.33
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	20	0.33
(1,244)	1:29:A:ILE:HD11	1:29:A:ILE:HG21	13	0.33
(1,238)	1:48:A:LEU:HD21	1:83:A:ALA:HB1	16	0.33
(1,238)	1:48:A:LEU:HD21	1:83:A:ALA:HB3	17	0.33
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG23	3	0.33
(1,225)	1:157:A:ILE:HG13	1:157:A:ILE:HG21	5	0.33
(1,209)	1:52:A:ALA:HB2	1:54:A:ALA:HB3	9	0.33
(1,209)	1:52:A:ALA:HB2	1:54:A:ALA:HB3	18	0.33
(1,183)	1:22:A:GLN:HB2	1:22:A:GLN:HG3	3	0.33
(1,174)	1:164:A:GLN:HG2	1:164:A:GLN:HA	6	0.33
(1,174)	1:164:A:GLN:HG2	1:164:A:GLN:HA	7	0.33
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	4	0.33
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	9	0.33
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	10	0.33
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	16	0.33
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	17	0.33
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	18	0.33
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	19	0.33
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	1	0.33
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	2	0.33
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	6	0.33
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	8	0.33
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	9	0.33
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	1	0.33
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	2	0.33
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	3	0.33
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	7	0.33
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	8	0.33
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	10	0.33
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	11	0.33
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	12	0.33
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	13	0.33
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	14	0.33
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	15	0.33
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	17	0.33
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	18	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	19	0.33
(1,148)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	20	0.33
(1,139)	1:64:A:PRO:HA	1:64:A:PRO:HB2	16	0.33
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	11	0.33
(3,3)	1:140:A:VAL:H	2:5:B:6MZ:N1	19	0.32
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	10	0.32
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	13	0.32
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	19	0.32
(1,2341)	1:118:A:ARG:HB2	2:2:B:C:H5	5	0.32
(1,2341)	1:118:A:ARG:HB3	2:2:B:C:H5	5	0.32
(1,2281)	1:50:A:ARG:H	1:49:A:SER:HB2	14	0.32
(1,2281)	1:50:A:ARG:H	1:49:A:SER:HB2	15	0.32
(1,2281)	1:50:A:ARG:H	1:49:A:SER:HB2	20	0.32
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG22	6	0.32
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG21	15	0.32
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB2	11	0.32
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	10	0.32
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG21	20	0.32
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	11	0.32
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	12	0.32
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	5	0.32
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	5	0.32
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	13	0.32
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	20	0.32
(1,1993)	1:71:A:VAL:H	1:28:A:PHE:HA	13	0.32
(1,1973)	1:163:A:SER:H	1:156:A:ILE:HG21	5	0.32
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG21	6	0.32
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB1	4	0.32
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB2	17	0.32
(1,1920)	1:55:A:SER:H	1:56:A:ILE:H	18	0.32
(1,1920)	1:55:A:SER:H	1:56:A:ILE:H	20	0.32
(1,1873)	1:113:A:ALA:H	1:151:A:GLN:H	16	0.32
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	15	0.32
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	19	0.32
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	3	0.32
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB3	9	0.32
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	1	0.32
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	2	0.32
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	2	0.32
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	4	0.32
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	7	0.32
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	19	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1755)	1:21:A:GLU:H	1:21:A:GLU:HG2	13	0.32
(1,1755)	1:21:A:GLU:H	1:21:A:GLU:HG2	15	0.32
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	8	0.32
(1,1715)	1:37:A:ILE:H	1:37:A:ILE:HD12	1	0.32
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	13	0.32
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	15	0.32
(1,1600)	1:138:A:VAL:HG11	1:127:A:VAL:HG22	1	0.32
(1,1600)	1:138:A:VAL:HG12	1:127:A:VAL:HG23	3	0.32
(1,1600)	1:138:A:VAL:HG13	1:127:A:VAL:HG21	8	0.32
(1,1600)	1:138:A:VAL:HG12	1:127:A:VAL:HG21	10	0.32
(1,1600)	1:138:A:VAL:HG12	1:127:A:VAL:HG23	20	0.32
(1,1599)	1:127:A:VAL:HA	1:138:A:VAL:HB	18	0.32
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD12	15	0.32
(1,1559)	1:37:A:ILE:HD11	1:37:A:ILE:HG21	3	0.32
(1,1559)	1:37:A:ILE:HD11	1:37:A:ILE:HG23	10	0.32
(1,1559)	1:37:A:ILE:HD11	1:37:A:ILE:HG22	19	0.32
(1,1539)	1:90:A:LYS:HG3	1:91:A:LEU:HD22	8	0.32
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB3	19	0.32
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB2	20	0.32
(1,1514)	1:139:A:VAL:H	1:139:A:VAL:HG22	12	0.32
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	5	0.32
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	12	0.32
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	18	0.32
(1,1498)	1:57:A:LYS:H	1:57:A:LYS:HD2	2	0.32
(1,1463)	1:148:A:GLU:H	1:148:A:GLU:HG3	5	0.32
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB1	2	0.32
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB3	6	0.32
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	6	0.32
(1,1443)	1:104:A:LYS:HB2	1:104:A:LYS:HE3	17	0.32
(1,1428)	1:89:A:GLY:H	1:86:A:ARG:HA	15	0.32
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD12	4	0.32
(1,1407)	1:33:A:ALA:HB1	1:30:A:PRO:HB3	3	0.32
(1,1407)	1:33:A:ALA:HB1	1:30:A:PRO:HB3	6	0.32
(1,1407)	1:33:A:ALA:HB3	1:30:A:PRO:HB3	9	0.32
(1,1403)	1:37:A:ILE:HG22	1:29:A:ILE:HD11	1	0.32
(1,1393)	1:90:A:LYS:HG2	1:90:A:LYS:HD2	7	0.32
(1,1362)	1:170:A:ILE:HG12	1:170:A:ILE:HB	1	0.32
(1,1362)	1:170:A:ILE:HG12	1:170:A:ILE:HB	2	0.32
(1,1362)	1:170:A:ILE:HG12	1:170:A:ILE:HB	5	0.32
(1,1362)	1:170:A:ILE:HG12	1:170:A:ILE:HB	12	0.32
(1,1362)	1:170:A:ILE:HG12	1:170:A:ILE:HB	14	0.32
(1,1362)	1:170:A:ILE:HG12	1:170:A:ILE:HB	16	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1362)	1:170:A:ILE:HG12	1:170:A:ILE:HB	20	0.32
(1,1324)	1:135:A:ALA:HB2	1:135:A:ALA:H	2	0.32
(1,1324)	1:135:A:ALA:HB3	1:135:A:ALA:H	12	0.32
(1,1324)	1:135:A:ALA:HB1	1:135:A:ALA:H	15	0.32
(1,1324)	1:135:A:ALA:HB3	1:135:A:ALA:H	17	0.32
(1,1308)	1:154:A:VAL:HG13	1:153:A:ILE:HA	11	0.32
(1,1308)	1:154:A:VAL:HG11	1:153:A:ILE:HA	20	0.32
(1,1307)	1:107:A:THR:HG21	1:27:A:VAL:H	16	0.32
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG21	2	0.32
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG23	17	0.32
(1,1297)	1:105:A:LEU:HG	1:87:A:ILE:HD12	16	0.32
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD12	7	0.32
(1,1284)	1:29:A:ILE:HD11	1:30:A:PRO:HD2	3	0.32
(1,1247)	1:58:A:ILE:HD12	1:58:A:ILE:HG21	6	0.32
(1,1204)	1:93:A:GLU:HB2	1:93:A:GLU:HG3	10	0.32
(1,1204)	1:93:A:GLU:HB2	1:93:A:GLU:HG3	17	0.32
(1,1181)	1:173:A:ILE:HD12	1:119:A:VAL:HA	15	0.32
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	16	0.32
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	19	0.32
(1,1133)	1:104:A:LYS:H	1:104:A:LYS:HB2	10	0.32
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	2	0.32
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	5	0.32
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	16	0.32
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	20	0.32
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB3	5	0.32
(1,1111)	1:169:A:LYS:H	1:169:A:LYS:HG2	2	0.32
(1,1096)	1:110:A:ARG:H	1:110:A:ARG:HG2	12	0.32
(1,1059)	1:48:A:LEU:HD11	1:51:A:PHE:HD1	18	0.32
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	19	0.32
(1,1016)	1:126:A:THR:HG22	1:173:A:ILE:HD13	6	0.32
(1,1014)	1:166:A:ALA:HB2	1:134:A:THR:HG22	5	0.32
(1,999)	1:157:A:ILE:HG21	1:104:A:LYS:HA	9	0.32
(1,990)	1:110:A:ARG:HD3	1:153:A:ILE:HD12	1	0.32
(1,982)	1:48:A:LEU:HD21	1:48:A:LEU:HB3	14	0.32
(1,967)	1:94:A:GLU:HB2	1:96:A:PHE:HD1	11	0.32
(1,967)	1:94:A:GLU:HB2	1:96:A:PHE:HD1	16	0.32
(1,967)	1:94:A:GLU:HB2	1:96:A:PHE:HD1	19	0.32
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	7	0.32
(1,947)	1:63:A:THR:HB	1:62:A:GLU:HG3	14	0.32
(1,947)	1:63:A:THR:HB	1:62:A:GLU:HG2	15	0.32
(1,947)	1:63:A:THR:HB	1:62:A:GLU:HG2	19	0.32
(1,941)	1:153:A:ILE:HG22	1:155:A:LYS:HA	4	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	13	0.32
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	19	0.32
(1,894)	1:54:A:ALA:HB1	1:56:A:ILE:HD13	14	0.32
(1,876)	1:109:A:ILE:HG23	1:107:A:THR:HG22	17	0.32
(1,863)	1:87:A:ILE:HG21	1:84:A:GLN:HA	3	0.32
(1,854)	1:14:A:PHE:HD1	1:14:A:PHE:HB3	3	0.32
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	3	0.32
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	20	0.32
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG22	12	0.32
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG23	17	0.32
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	20	0.32
(1,833)	1:37:A:ILE:HD12	1:87:A:ILE:HA	19	0.32
(1,820)	1:119:A:VAL:HG13	1:119:A:VAL:HG22	16	0.32
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG22	12	0.32
(1,782)	1:105:A:LEU:HD11	1:105:A:LEU:HB3	2	0.32
(1,771)	1:156:A:ILE:HD11	1:163:A:SER:HA	2	0.32
(1,765)	1:157:A:ILE:HD12	1:157:A:ILE:HB	2	0.32
(1,765)	1:157:A:ILE:HD13	1:157:A:ILE:HB	5	0.32
(1,759)	1:79:A:ALA:HB3	1:76:A:PRO:HG3	3	0.32
(1,753)	1:107:A:THR:HG21	1:27:A:VAL:HA	3	0.32
(1,742)	1:156:A:ILE:HD11	1:166:A:ALA:HB1	12	0.32
(1,732)	1:153:A:ILE:HD11	1:153:A:ILE:HG13	12	0.32
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	5	0.32
(1,671)	1:116:A:ALA:HB1	1:140:A:VAL:HG22	10	0.32
(1,671)	1:116:A:ALA:HB3	1:140:A:VAL:HG21	12	0.32
(1,671)	1:116:A:ALA:HB2	1:140:A:VAL:HG23	14	0.32
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	13	0.32
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG22	8	0.32
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG22	9	0.32
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG21	14	0.32
(1,516)	1:122:A:LYS:H	1:122:A:LYS:HD2	3	0.32
(1,516)	1:122:A:LYS:H	1:122:A:LYS:HD2	12	0.32
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	18	0.32
(1,492)	1:103:A:VAL:HG11	1:103:A:VAL:HG21	10	0.32
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG11	15	0.32
(1,439)	1:127:A:VAL:HB	1:120:A:ILE:HG23	3	0.32
(1,433)	1:90:A:LYS:HA	1:90:A:LYS:HD3	5	0.32
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	16	0.32
(1,416)	1:27:A:VAL:HG22	1:27:A:VAL:HG13	8	0.32
(1,416)	1:27:A:VAL:HG23	1:27:A:VAL:HG11	12	0.32
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	14	0.32
(1,370)	1:154:A:VAL:HG22	1:119:A:VAL:HG23	20	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG23	3	0.32
(1,360)	1:71:A:VAL:HA	1:71:A:VAL:HB	11	0.32
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD11	8	0.32
(1,336)	1:23:A:GLU:HA	1:23:A:GLU:HG2	5	0.32
(1,336)	1:23:A:GLU:HA	1:23:A:GLU:HG2	14	0.32
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG13	2	0.32
(1,296)	1:138:A:VAL:HG12	1:138:A:VAL:HG21	4	0.32
(1,296)	1:138:A:VAL:HG11	1:138:A:VAL:HG22	10	0.32
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	1	0.32
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	2	0.32
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	20	0.32
(1,290)	1:91:A:LEU:HD22	1:91:A:LEU:HB3	8	0.32
(1,287)	1:14:A:PHE:HA	1:14:A:PHE:HB2	4	0.32
(1,287)	1:14:A:PHE:HA	1:14:A:PHE:HB2	14	0.32
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	13	0.32
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	9	0.32
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	3	0.32
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	15	0.32
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	18	0.32
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	9	0.32
(1,244)	1:29:A:ILE:HD11	1:29:A:ILE:HG21	19	0.32
(1,243)	1:33:A:ALA:HB1	1:96:A:PHE:HB2	11	0.32
(1,229)	1:119:A:VAL:HG11	1:116:A:ALA:HA	14	0.32
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	7	0.32
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	8	0.32
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	20	0.32
(1,132)	1:32:A:GLN:HA	1:32:A:GLN:HG2	7	0.32
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	3	0.32
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	10	0.32
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	14	0.32
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	16	0.32
(1,125)	1:112:A:PRO:HD3	1:174:A:LEU:HD23	16	0.32
(1,114)	1:52:A:ALA:HA	1:82:A:LYS:HD2	19	0.32
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG23	18	0.32
(1,74)	1:144:A:GLN:HA	1:144:A:GLN:HG2	6	0.32
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG21	3	0.32
(1,2480)	2:1:B:U:H1'	2:2:B:C:H3'	9	0.31
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	11	0.31
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	11	0.31
(1,2455)	1:118:A:ARG:HD3	2:1:B:U:H1'	11	0.31
(1,2441)	2:1:B:U:H5	2:1:B:U:H3'	15	0.31
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	7	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	8	0.31
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	2	0.31
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	14	0.31
(1,2321)	1:118:A:ARG:HD3	2:2:B:C:H2'	9	0.31
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	11	0.31
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	15	0.31
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG21	10	0.31
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG21	11	0.31
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG21	19	0.31
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	15	0.31
(1,2210)	1:119:A:VAL:H	1:119:A:VAL:HB	12	0.31
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	1	0.31
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	7	0.31
(1,2163)	1:102:A:GLU:H	1:102:A:GLU:HB3	14	0.31
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG21	5	0.31
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	2	0.31
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	18	0.31
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	9	0.31
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB1	20	0.31
(1,2023)	1:70:A:MET:H	1:70:A:MET:HB2	2	0.31
(1,2023)	1:70:A:MET:H	1:70:A:MET:HB2	5	0.31
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	11	0.31
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	13	0.31
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	16	0.31
(1,1993)	1:71:A:VAL:H	1:28:A:PHE:HA	19	0.31
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG22	5	0.31
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG22	18	0.31
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB2	3	0.31
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	4	0.31
(1,1917)	1:29:A:ILE:H	1:28:A:PHE:HB3	13	0.31
(1,1893)	1:23:A:GLU:H	1:74:A:THR:HG21	18	0.31
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	4	0.31
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	8	0.31
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	18	0.31
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	1	0.31
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	5	0.31
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	15	0.31
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	17	0.31
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	18	0.31
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG22	8	0.31
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	18	0.31
(1,1813)	1:33:A:ALA:H	1:34:A:VAL:HG21	18	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	3	0.31
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	6	0.31
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	7	0.31
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	3	0.31
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	18	0.31
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	3	0.31
(1,1715)	1:37:A:ILE:H	1:37:A:ILE:HD13	10	0.31
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	7	0.31
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	18	0.31
(1,1702)	1:91:A:LEU:H	1:90:A:LYS:HG2	5	0.31
(1,1657)	1:93:A:GLU:H	1:93:A:GLU:HG2	10	0.31
(1,1641)	1:36:A:ALA:H	1:33:A:ALA:HA	12	0.31
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD13	20	0.31
(1,1600)	1:138:A:VAL:HG13	1:127:A:VAL:HG23	2	0.31
(1,1600)	1:138:A:VAL:HG11	1:127:A:VAL:HG22	4	0.31
(1,1596)	1:72:A:VAL:HG13	1:72:A:VAL:HG21	14	0.31
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB1	17	0.31
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD11	20	0.31
(1,1585)	1:177:A:VAL:HG23	1:118:A:ARG:HD3	19	0.31
(1,1574)	1:103:A:VAL:HG13	1:92:A:LYS:HA	13	0.31
(1,1559)	1:37:A:ILE:HD12	1:37:A:ILE:HG22	7	0.31
(1,1555)	1:48:A:LEU:HD22	1:87:A:ILE:HG23	2	0.31
(1,1553)	1:87:A:ILE:HD11	1:29:A:ILE:HG21	1	0.31
(1,1553)	1:87:A:ILE:HD13	1:29:A:ILE:HG22	2	0.31
(1,1553)	1:87:A:ILE:HD11	1:29:A:ILE:HG21	4	0.31
(1,1544)	1:173:A:ILE:HG23	1:119:A:VAL:HA	16	0.31
(1,1535)	1:170:A:ILE:HD12	1:170:A:ILE:HG21	11	0.31
(1,1535)	1:170:A:ILE:HD13	1:170:A:ILE:HG23	14	0.31
(1,1530)	1:174:A:LEU:HD23	1:177:A:VAL:HG11	6	0.31
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG22	3	0.31
(1,1505)	1:90:A:LYS:HB2	1:87:A:ILE:HA	11	0.31
(1,1501)	1:59:A:ALA:HB3	1:72:A:VAL:HG22	9	0.31
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	9	0.31
(1,1441)	1:154:A:VAL:HG23	1:140:A:VAL:HA	3	0.31
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	11	0.31
(1,1428)	1:89:A:GLY:H	1:86:A:ARG:HA	14	0.31
(1,1428)	1:89:A:GLY:H	1:86:A:ARG:HA	17	0.31
(1,1403)	1:37:A:ILE:HG21	1:29:A:ILE:HD13	7	0.31
(1,1396)	1:91:A:LEU:HD23	1:30:A:PRO:HD3	9	0.31
(1,1393)	1:90:A:LYS:HG2	1:90:A:LYS:HD2	1	0.31
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD11	6	0.31
(1,1363)	1:170:A:ILE:H	1:170:A:ILE:HD13	20	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1362)	1:170:A:ILE:HG12	1:170:A:ILE:HB	9	0.31
(1,1362)	1:170:A:ILE:HG12	1:170:A:ILE:HB	11	0.31
(1,1344)	1:153:A:ILE:HG22	1:110:A:ARG:HD3	12	0.31
(1,1343)	1:110:A:ARG:HD3	1:110:A:ARG:HB3	11	0.31
(1,1343)	1:110:A:ARG:HD3	1:110:A:ARG:HB3	14	0.31
(1,1343)	1:110:A:ARG:HD3	1:110:A:ARG:HB3	15	0.31
(1,1343)	1:110:A:ARG:HD3	1:110:A:ARG:HB3	16	0.31
(1,1324)	1:135:A:ALA:HB2	1:135:A:ALA:H	4	0.31
(1,1324)	1:135:A:ALA:HB1	1:135:A:ALA:H	6	0.31
(1,1324)	1:135:A:ALA:HB1	1:135:A:ALA:H	10	0.31
(1,1324)	1:135:A:ALA:HB2	1:135:A:ALA:H	11	0.31
(1,1324)	1:135:A:ALA:HB2	1:135:A:ALA:H	20	0.31
(1,1300)	1:105:A:LEU:HD11	1:29:A:ILE:HG23	9	0.31
(1,1289)	1:31:A:ALA:HB3	1:67:A:LYS:HA	14	0.31
(1,1277)	1:169:A:LYS:HB2	1:130:A:LEU:HD13	15	0.31
(1,1242)	1:25:A:VAL:HG13	1:26:A:HIS:HA	1	0.31
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	6	0.31
(1,1204)	1:93:A:GLU:HB2	1:93:A:GLU:HG3	5	0.31
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	16	0.31
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	9	0.31
(1,1138)	1:157:A:ILE:HA	1:157:A:ILE:HG12	10	0.31
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	1	0.31
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	4	0.31
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	6	0.31
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	11	0.31
(1,1111)	1:169:A:LYS:H	1:169:A:LYS:HG2	7	0.31
(1,1075)	1:161:A:TYR:HE1	1:160:A:PHE:HE1	16	0.31
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD11	18	0.31
(1,1031)	1:68:A:VAL:HG11	1:28:A:PHE:HD1	14	0.31
(1,1031)	1:68:A:VAL:HG13	1:28:A:PHE:HD1	20	0.31
(1,1016)	1:126:A:THR:HG21	1:173:A:ILE:HD12	17	0.31
(1,1016)	1:126:A:THR:HG23	1:173:A:ILE:HD12	19	0.31
(1,1010)	1:127:A:VAL:HA	1:127:A:VAL:HG22	19	0.31
(1,999)	1:157:A:ILE:HG21	1:104:A:LYS:HA	1	0.31
(1,995)	1:18:A:MET:HA	1:18:A:MET:HB2	2	0.31
(1,995)	1:18:A:MET:HA	1:18:A:MET:HB2	5	0.31
(1,995)	1:18:A:MET:HA	1:18:A:MET:HB2	7	0.31
(1,995)	1:18:A:MET:HA	1:18:A:MET:HB2	9	0.31
(1,995)	1:18:A:MET:HA	1:18:A:MET:HB2	11	0.31
(1,995)	1:18:A:MET:HA	1:18:A:MET:HB2	16	0.31
(1,995)	1:18:A:MET:HA	1:18:A:MET:HB2	17	0.31
(1,994)	1:18:A:MET:HA	1:18:A:MET:HG2	20	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,971)	1:52:A:ALA:HB3	1:56:A:ILE:HD13	13	0.31
(1,942)	1:153:A:ILE:HG21	1:108:A:HIS:HD2	18	0.31
(1,941)	1:153:A:ILE:HG21	1:155:A:LYS:HA	13	0.31
(1,938)	1:24:A:THR:HG23	1:26:A:HIS:HD2	4	0.31
(1,938)	1:24:A:THR:HG23	1:26:A:HIS:HD2	8	0.31
(1,938)	1:24:A:THR:HG23	1:26:A:HIS:HD2	11	0.31
(1,938)	1:24:A:THR:HG22	1:26:A:HIS:HD2	13	0.31
(1,914)	1:68:A:VAL:HG21	1:28:A:PHE:HE1	1	0.31
(1,914)	1:68:A:VAL:HG22	1:28:A:PHE:HE1	6	0.31
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	13	0.31
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	17	0.31
(1,901)	1:90:A:LYS:HE2	1:94:A:GLU:HG3	6	0.31
(1,901)	1:90:A:LYS:HE2	1:94:A:GLU:HG3	9	0.31
(1,896)	1:170:A:ILE:HG23	1:171:A:ARG:HA	13	0.31
(1,874)	1:104:A:LYS:HE2	1:104:A:LYS:HB3	15	0.31
(1,863)	1:87:A:ILE:HG22	1:84:A:GLN:HA	2	0.31
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	2	0.31
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	7	0.31
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	14	0.31
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG22	14	0.31
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG21	15	0.31
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG21	18	0.31
(1,840)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	1	0.31
(1,840)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	3	0.31
(1,840)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	4	0.31
(1,840)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	5	0.31
(1,840)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	10	0.31
(1,812)	1:174:A:LEU:HD12	1:111:A:VAL:HG21	7	0.31
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD12	9	0.31
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG22	1	0.31
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG22	19	0.31
(1,782)	1:105:A:LEU:HD12	1:105:A:LEU:HB3	16	0.31
(1,775)	1:113:A:ALA:HB2	1:152:A:VAL:HG12	11	0.31
(1,775)	1:113:A:ALA:HB1	1:152:A:VAL:HG12	12	0.31
(1,771)	1:156:A:ILE:HD11	1:163:A:SER:HA	1	0.31
(1,771)	1:156:A:ILE:HD12	1:163:A:SER:HA	6	0.31
(1,771)	1:156:A:ILE:HD13	1:163:A:SER:HA	15	0.31
(1,765)	1:157:A:ILE:HD13	1:157:A:ILE:HB	9	0.31
(1,765)	1:157:A:ILE:HD11	1:157:A:ILE:HB	14	0.31
(1,765)	1:157:A:ILE:HD12	1:157:A:ILE:HB	17	0.31
(1,759)	1:79:A:ALA:HB1	1:76:A:PRO:HG3	4	0.31
(1,759)	1:79:A:ALA:HB2	1:76:A:PRO:HG3	19	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,708)	1:83:A:ALA:HA	1:48:A:LEU:HD13	14	0.31
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	4	0.31
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG21	10	0.31
(1,614)	1:103:A:VAL:HG12	1:103:A:VAL:HA	15	0.31
(1,553)	1:23:A:GLU:HA	1:23:A:GLU:HG3	12	0.31
(1,553)	1:23:A:GLU:HA	1:23:A:GLU:HG3	13	0.31
(1,553)	1:23:A:GLU:HA	1:23:A:GLU:HG3	20	0.31
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG23	2	0.31
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	1	0.31
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	2	0.31
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	20	0.31
(1,492)	1:103:A:VAL:HG12	1:103:A:VAL:HG23	20	0.31
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG11	4	0.31
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG12	17	0.31
(1,416)	1:27:A:VAL:HG23	1:27:A:VAL:HG11	5	0.31
(1,416)	1:27:A:VAL:HG22	1:27:A:VAL:HG13	7	0.31
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	1	0.31
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	6	0.31
(1,409)	1:146:A:PRO:HB2	1:150:A:GLU:HA	9	0.31
(1,400)	1:138:A:VAL:HG22	1:154:A:VAL:HG22	18	0.31
(1,360)	1:71:A:VAL:HA	1:71:A:VAL:HB	4	0.31
(1,360)	1:71:A:VAL:HA	1:71:A:VAL:HB	9	0.31
(1,360)	1:71:A:VAL:HA	1:71:A:VAL:HB	10	0.31
(1,348)	1:51:A:PHE:H	1:51:A:PHE:HB3	18	0.31
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG11	8	0.31
(1,320)	1:152:A:VAL:H	1:152:A:VAL:HG13	16	0.31
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	18	0.31
(1,296)	1:138:A:VAL:HG11	1:138:A:VAL:HG23	20	0.31
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG13	4	0.31
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG22	10	0.31
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	7	0.31
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	14	0.31
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	4	0.31
(1,244)	1:29:A:ILE:HD12	1:29:A:ILE:HG22	14	0.31
(1,243)	1:33:A:ALA:HB1	1:96:A:PHE:HB2	6	0.31
(1,243)	1:33:A:ALA:HB1	1:96:A:PHE:HB2	19	0.31
(1,238)	1:48:A:LEU:HD21	1:83:A:ALA:HB3	19	0.31
(1,228)	1:109:A:ILE:HG21	1:171:A:ARG:HD2	10	0.31
(1,228)	1:109:A:ILE:HG21	1:171:A:ARG:HD2	18	0.31
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD23	1	0.31
(1,209)	1:52:A:ALA:HB2	1:54:A:ALA:HB2	20	0.31
(1,169)	1:76:A:PRO:HG3	1:76:A:PRO:HA	13	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	12	0.31
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	15	0.31
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	18	0.31
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	19	0.31
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	20	0.31
(1,132)	1:32:A:GLN:HA	1:32:A:GLN:HG2	8	0.31
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	1	0.31
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	2	0.31
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	4	0.31
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	5	0.31
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	6	0.31
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	7	0.31
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	8	0.31
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	9	0.31
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	17	0.31
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	20	0.31
(1,116)	1:80:A:GLN:HA	1:83:A:ALA:HB2	16	0.31
(1,116)	1:80:A:GLN:HA	1:83:A:ALA:HB2	20	0.31
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG11	20	0.31
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	8	0.3
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	8	0.3
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	10	0.3
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	17	0.3
(1,2346)	2:2:B:C:H5	2:1:B:U:H5”	15	0.3
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	18	0.3
(1,2269)	1:84:A:GLN:HE21	1:84:A:GLN:HB2	9	0.3
(1,2269)	1:84:A:GLN:HE21	1:84:A:GLN:HB2	15	0.3
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG21	2	0.3
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG21	5	0.3
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG22	16	0.3
(1,2237)	1:25:A:VAL:H	1:73:A:ILE:HA	1	0.3
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	4	0.3
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	17	0.3
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	19	0.3
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	20	0.3
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	3	0.3
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	8	0.3
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	10	0.3
(1,2175)	1:26:A:HIS:H	1:25:A:VAL:HG11	16	0.3
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	18	0.3
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG21	2	0.3
(1,2131)	1:131:A:GLN:HE22	1:131:A:GLN:HB2	4	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	5	0.3
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	10	0.3
(1,2111)	1:94:A:GLU:H	1:94:A:GLU:HB3	17	0.3
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	19	0.3
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	2	0.3
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	4	0.3
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	17	0.3
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	18	0.3
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	19	0.3
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	2	0.3
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	6	0.3
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	10	0.3
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	20	0.3
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	4	0.3
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	9	0.3
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	11	0.3
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	14	0.3
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG12	1	0.3
(1,1993)	1:71:A:VAL:H	1:28:A:PHE:HA	12	0.3
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG21	9	0.3
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD12	6	0.3
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	3	0.3
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	16	0.3
(1,1885)	1:155:A:LYS:H	1:139:A:VAL:HG13	4	0.3
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	2	0.3
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	15	0.3
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	3	0.3
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	10	0.3
(1,1821)	1:165:A:MET:H	1:164:A:GLN:HG2	12	0.3
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	1	0.3
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	4	0.3
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	6	0.3
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	18	0.3
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	5	0.3
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	17	0.3
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	9	0.3
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	14	0.3
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG23	13	0.3
(1,1764)	1:51:A:PHE:H	1:50:A:ARG:HB2	19	0.3
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	10	0.3
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	8	0.3
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	19	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	14	0.3
(1,1657)	1:93:A:GLU:H	1:93:A:GLU:HG2	18	0.3
(1,1641)	1:36:A:ALA:H	1:33:A:ALA:HA	11	0.3
(1,1628)	1:74:A:THR:H	1:56:A:ILE:HA	14	0.3
(1,1600)	1:138:A:VAL:HG13	1:127:A:VAL:HG23	19	0.3
(1,1593)	1:58:A:ILE:HD12	1:71:A:VAL:HA	12	0.3
(1,1585)	1:177:A:VAL:HG22	1:118:A:ARG:HD3	14	0.3
(1,1555)	1:48:A:LEU:HD22	1:87:A:ILE:HG21	6	0.3
(1,1553)	1:87:A:ILE:HD11	1:29:A:ILE:HG21	11	0.3
(1,1539)	1:90:A:LYS:HG3	1:91:A:LEU:HD21	7	0.3
(1,1535)	1:170:A:ILE:HD12	1:170:A:ILE:HG23	20	0.3
(1,1530)	1:174:A:LEU:HD23	1:177:A:VAL:HG12	8	0.3
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG23	20	0.3
(1,1517)	1:176:A:GLN:HG2	1:175:A:ALA:HB1	7	0.3
(1,1501)	1:59:A:ALA:HB1	1:72:A:VAL:HG22	7	0.3
(1,1495)	1:174:A:LEU:HD21	1:118:A:ARG:HG3	7	0.3
(1,1495)	1:174:A:LEU:HD22	1:118:A:ARG:HG3	17	0.3
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	4	0.3
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	14	0.3
(1,1414)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	4	0.3
(1,1410)	1:104:A:LYS:HB2	1:157:A:ILE:HG22	6	0.3
(1,1407)	1:33:A:ALA:HB2	1:30:A:PRO:HB3	4	0.3
(1,1407)	1:33:A:ALA:HB3	1:30:A:PRO:HB3	16	0.3
(1,1397)	1:91:A:LEU:HA	1:91:A:LEU:HD22	12	0.3
(1,1397)	1:91:A:LEU:HA	1:91:A:LEU:HD21	13	0.3
(1,1396)	1:91:A:LEU:HD22	1:30:A:PRO:HD3	3	0.3
(1,1393)	1:90:A:LYS:HG2	1:90:A:LYS:HD2	2	0.3
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	7	0.3
(1,1371)	1:68:A:VAL:HG22	1:69:A:ARG:H	7	0.3
(1,1363)	1:170:A:ILE:H	1:170:A:ILE:HD12	6	0.3
(1,1362)	1:170:A:ILE:HG12	1:170:A:ILE:HB	10	0.3
(1,1343)	1:110:A:ARG:HD3	1:110:A:ARG:HB3	17	0.3
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	12	0.3
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	13	0.3
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	14	0.3
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	15	0.3
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	16	0.3
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	18	0.3
(1,1324)	1:135:A:ALA:HB2	1:135:A:ALA:H	7	0.3
(1,1324)	1:135:A:ALA:HB1	1:135:A:ALA:H	8	0.3
(1,1324)	1:135:A:ALA:HB1	1:135:A:ALA:H	9	0.3
(1,1324)	1:135:A:ALA:HB1	1:135:A:ALA:H	13	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1324)	1:135:A:ALA:HB1	1:135:A:ALA:H	14	0.3
(1,1324)	1:135:A:ALA:HB2	1:135:A:ALA:H	19	0.3
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD13	1	0.3
(1,1277)	1:169:A:LYS:HB2	1:130:A:LEU:HD13	17	0.3
(1,1270)	1:86:A:ARG:H	1:48:A:LEU:HD12	1	0.3
(1,1247)	1:58:A:ILE:HD12	1:58:A:ILE:HG21	5	0.3
(1,1247)	1:58:A:ILE:HD11	1:58:A:ILE:HG21	18	0.3
(1,1242)	1:25:A:VAL:HG13	1:26:A:HIS:HA	12	0.3
(1,1241)	1:34:A:VAL:HG11	1:37:A:ILE:HB	13	0.3
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD13	17	0.3
(1,1204)	1:93:A:GLU:HB2	1:93:A:GLU:HG3	18	0.3
(1,1173)	1:45:A:ILE:HA	1:45:A:ILE:HG12	15	0.3
(1,1173)	1:45:A:ILE:HA	1:45:A:ILE:HG12	19	0.3
(1,1134)	1:104:A:LYS:H	1:104:A:LYS:HB3	20	0.3
(1,1124)	1:87:A:ILE:H	1:87:A:ILE:HB	3	0.3
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	20	0.3
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD13	11	0.3
(1,1079)	1:27:A:VAL:H	1:27:A:VAL:HB	1	0.3
(1,1079)	1:27:A:VAL:H	1:27:A:VAL:HB	3	0.3
(1,1073)	1:88:A:TYR:HE1	1:103:A:VAL:HB	17	0.3
(1,1061)	1:97:A:PHE:HE1	1:91:A:LEU:HB2	16	0.3
(1,1031)	1:68:A:VAL:HG12	1:28:A:PHE:HD1	11	0.3
(1,1031)	1:68:A:VAL:HG11	1:28:A:PHE:HD1	13	0.3
(1,999)	1:157:A:ILE:HG22	1:104:A:LYS:HA	4	0.3
(1,998)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	5	0.3
(1,995)	1:18:A:MET:HA	1:18:A:MET:HB2	1	0.3
(1,995)	1:18:A:MET:HA	1:18:A:MET:HB2	4	0.3
(1,995)	1:18:A:MET:HA	1:18:A:MET:HB2	13	0.3
(1,995)	1:18:A:MET:HA	1:18:A:MET:HB2	15	0.3
(1,995)	1:18:A:MET:HA	1:18:A:MET:HB2	20	0.3
(1,994)	1:18:A:MET:HA	1:18:A:MET:HG2	4	0.3
(1,994)	1:18:A:MET:HA	1:18:A:MET:HG2	9	0.3
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	18	0.3
(1,983)	1:48:A:LEU:HD23	1:83:A:ALA:HA	5	0.3
(1,982)	1:48:A:LEU:HD21	1:48:A:LEU:HB3	20	0.3
(1,966)	1:91:A:LEU:HG	1:97:A:PHE:HE1	13	0.3
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	5	0.3
(1,938)	1:24:A:THR:HG22	1:26:A:HIS:HD2	18	0.3
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	12	0.3
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	14	0.3
(1,896)	1:170:A:ILE:HG22	1:171:A:ARG:HA	9	0.3
(1,889)	1:96:A:PHE:HE1	1:36:A:ALA:HB3	7	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,863)	1:87:A:ILE:HG22	1:84:A:GLN:HA	18	0.3
(1,856)	1:56:A:ILE:HD11	1:49:A:SER:HA	15	0.3
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	4	0.3
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	19	0.3
(1,833)	1:37:A:ILE:HD11	1:87:A:ILE:HA	15	0.3
(1,820)	1:119:A:VAL:HG13	1:119:A:VAL:HG22	13	0.3
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG21	5	0.3
(1,782)	1:105:A:LEU:HD13	1:105:A:LEU:HB3	11	0.3
(1,782)	1:105:A:LEU:HD13	1:105:A:LEU:HB3	12	0.3
(1,782)	1:105:A:LEU:HD11	1:105:A:LEU:HB3	13	0.3
(1,771)	1:156:A:ILE:HD12	1:163:A:SER:HA	16	0.3
(1,765)	1:157:A:ILE:HD11	1:157:A:ILE:HB	10	0.3
(1,765)	1:157:A:ILE:HD13	1:157:A:ILE:HB	16	0.3
(1,753)	1:107:A:THR:HG22	1:27:A:VAL:HA	4	0.3
(1,753)	1:107:A:THR:HG23	1:27:A:VAL:HA	9	0.3
(1,742)	1:156:A:ILE:HD13	1:166:A:ALA:HB3	9	0.3
(1,731)	1:153:A:ILE:HG21	1:153:A:ILE:HD12	16	0.3
(1,700)	1:119:A:VAL:HB	1:170:A:ILE:HG12	13	0.3
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	19	0.3
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	10	0.3
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	11	0.3
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	12	0.3
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD12	18	0.3
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG21	2	0.3
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG21	17	0.3
(1,608)	1:174:A:LEU:HD12	1:112:A:PRO:HD3	3	0.3
(1,585)	1:22:A:GLN:HA	1:22:A:GLN:HG2	4	0.3
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG23	16	0.3
(1,571)	1:86:A:ARG:HA	1:86:A:ARG:HB2	18	0.3
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD12	3	0.3
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD12	18	0.3
(1,553)	1:23:A:GLU:HA	1:23:A:GLU:HG3	1	0.3
(1,553)	1:23:A:GLU:HA	1:23:A:GLU:HG3	4	0.3
(1,553)	1:23:A:GLU:HA	1:23:A:GLU:HG3	7	0.3
(1,516)	1:122:A:LYS:H	1:122:A:LYS:HD2	8	0.3
(1,516)	1:122:A:LYS:H	1:122:A:LYS:HD2	11	0.3
(1,516)	1:122:A:LYS:H	1:122:A:LYS:HD2	20	0.3
(1,515)	1:122:A:LYS:H	1:122:A:LYS:HD3	9	0.3
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	10	0.3
(1,492)	1:103:A:VAL:HG11	1:103:A:VAL:HG21	17	0.3
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	7	0.3
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	14	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	1	0.3
(1,416)	1:27:A:VAL:HG21	1:27:A:VAL:HG13	3	0.3
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	4	0.3
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	10	0.3
(1,400)	1:138:A:VAL:HG23	1:154:A:VAL:HG21	3	0.3
(1,393)	1:79:A:ALA:H	1:78:A:GLU:HG2	10	0.3
(1,336)	1:23:A:GLU:HA	1:23:A:GLU:HG2	9	0.3
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB1	3	0.3
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB3	6	0.3
(1,301)	1:55:A:SER:H	1:55:A:SER:HB2	3	0.3
(1,296)	1:138:A:VAL:HG13	1:138:A:VAL:HG23	3	0.3
(1,296)	1:138:A:VAL:HG12	1:138:A:VAL:HG22	17	0.3
(1,294)	1:130:A:LEU:HD23	1:169:A:LYS:HB2	10	0.3
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	3	0.3
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	17	0.3
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG13	9	0.3
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	14	0.3
(1,253)	1:116:A:ALA:H	1:114:A:SER:HA	16	0.3
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	5	0.3
(1,244)	1:29:A:ILE:HD12	1:29:A:ILE:HG23	12	0.3
(1,244)	1:29:A:ILE:HD11	1:29:A:ILE:HG23	17	0.3
(1,238)	1:48:A:LEU:HD23	1:83:A:ALA:HB3	3	0.3
(1,232)	1:111:A:VAL:HG12	1:111:A:VAL:HG21	9	0.3
(1,229)	1:119:A:VAL:HG13	1:116:A:ALA:HA	12	0.3
(1,229)	1:119:A:VAL:HG13	1:116:A:ALA:HA	16	0.3
(1,210)	1:45:A:ILE:HG12	1:56:A:ILE:HG23	17	0.3
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	11	0.3
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	17	0.3
(1,158)	1:102:A:GLU:HG2	1:102:A:GLU:HB3	16	0.3
(1,157)	1:94:A:GLU:HA	1:94:A:GLU:HG2	14	0.3
(1,157)	1:94:A:GLU:HA	1:94:A:GLU:HG2	19	0.3
(1,132)	1:32:A:GLN:HA	1:32:A:GLN:HG2	5	0.3
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	12	0.3
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	13	0.3
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	18	0.3
(1,131)	1:96:A:PHE:HA	1:96:A:PHE:HB2	19	0.3
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	6	0.3
(1,41)	1:51:A:PHE:HE1	1:86:A:ARG:HD2	2	0.3
(1,41)	1:51:A:PHE:HE1	1:86:A:ARG:HD2	10	0.3
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG23	13	0.3
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	1	0.29
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	1	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	20	0.29
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG21	7	0.29
(1,2243)	1:147:A:ASP:H	1:113:A:ALA:HB3	19	0.29
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	10	0.29
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	13	0.29
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB3	19	0.29
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	4	0.29
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	6	0.29
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG22	11	0.29
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	12	0.29
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	17	0.29
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	11	0.29
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	20	0.29
(1,2074)	1:143:A:ASP:H	1:143:A:ASP:HA	8	0.29
(1,2060)	1:22:A:GLN:H	1:22:A:GLN:HG2	9	0.29
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB1	10	0.29
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG22	8	0.29
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	15	0.29
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	19	0.29
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG13	4	0.29
(1,1993)	1:71:A:VAL:H	1:28:A:PHE:HA	18	0.29
(1,1991)	1:73:A:ILE:H	1:72:A:VAL:HG12	7	0.29
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG23	3	0.29
(1,1964)	1:108:A:HIS:H	1:28:A:PHE:HB3	15	0.29
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB3	2	0.29
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	1	0.29
(1,1917)	1:29:A:ILE:H	1:28:A:PHE:HB3	11	0.29
(1,1917)	1:29:A:ILE:H	1:28:A:PHE:HB3	17	0.29
(1,1917)	1:29:A:ILE:H	1:28:A:PHE:HB3	18	0.29
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	20	0.29
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD1	19	0.29
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB3	13	0.29
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB2	15	0.29
(1,1873)	1:113:A:ALA:H	1:151:A:GLN:H	12	0.29
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	3	0.29
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	11	0.29
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	14	0.29
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	15	0.29
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	17	0.29
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	17	0.29
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	8	0.29
(1,1859)	1:84:A:GLN:HE22	1:84:A:GLN:HG2	9	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	17	0.29
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	19	0.29
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG22	13	0.29
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	2	0.29
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	7	0.29
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	6	0.29
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	10	0.29
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	10	0.29
(1,1736)	1:176:A:GLN:HE22	1:176:A:GLN:HG2	12	0.29
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	2	0.29
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	5	0.29
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	20	0.29
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	14	0.29
(1,1641)	1:36:A:ALA:H	1:33:A:ALA:HA	13	0.29
(1,1641)	1:36:A:ALA:H	1:33:A:ALA:HA	16	0.29
(1,1641)	1:36:A:ALA:H	1:33:A:ALA:HA	19	0.29
(1,1632)	1:139:A:VAL:H	1:138:A:VAL:HG23	4	0.29
(1,1601)	1:134:A:THR:HG23	1:165:A:MET:HG2	10	0.29
(1,1600)	1:138:A:VAL:HG13	1:127:A:VAL:HG23	15	0.29
(1,1594)	1:27:A:VAL:H	1:71:A:VAL:HB	16	0.29
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD11	16	0.29
(1,1575)	1:168:A:ARG:HA	1:171:A:ARG:HG3	7	0.29
(1,1570)	1:56:A:ILE:HD11	1:83:A:ALA:HB2	11	0.29
(1,1565)	1:93:A:GLU:HA	1:93:A:GLU:HB2	2	0.29
(1,1565)	1:93:A:GLU:HA	1:93:A:GLU:HB2	3	0.29
(1,1565)	1:93:A:GLU:HA	1:93:A:GLU:HB2	6	0.29
(1,1565)	1:93:A:GLU:HA	1:93:A:GLU:HB2	7	0.29
(1,1565)	1:93:A:GLU:HA	1:93:A:GLU:HB2	8	0.29
(1,1565)	1:93:A:GLU:HA	1:93:A:GLU:HB2	9	0.29
(1,1559)	1:37:A:ILE:HD13	1:37:A:ILE:HG23	1	0.29
(1,1559)	1:37:A:ILE:HD12	1:37:A:ILE:HG21	2	0.29
(1,1559)	1:37:A:ILE:HD11	1:37:A:ILE:HG23	8	0.29
(1,1559)	1:37:A:ILE:HD13	1:37:A:ILE:HG21	11	0.29
(1,1553)	1:87:A:ILE:HD13	1:29:A:ILE:HG23	6	0.29
(1,1544)	1:173:A:ILE:HG21	1:119:A:VAL:HA	13	0.29
(1,1544)	1:173:A:ILE:HG21	1:119:A:VAL:HA	20	0.29
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG23	13	0.29
(1,1518)	1:22:A:GLN:HB3	1:22:A:GLN:HG3	15	0.29
(1,1510)	1:93:A:GLU:HG2	1:94:A:GLU:H	2	0.29
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	1	0.29
(1,1503)	1:78:A:GLU:H	1:78:A:GLU:HG2	3	0.29
(1,1503)	1:78:A:GLU:H	1:78:A:GLU:HG2	10	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1501)	1:59:A:ALA:HB2	1:72:A:VAL:HG22	3	0.29
(1,1487)	1:38:A:ILE:HD12	1:58:A:ILE:H	4	0.29
(1,1487)	1:38:A:ILE:HD12	1:58:A:ILE:H	14	0.29
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	5	0.29
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	15	0.29
(1,1414)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	1	0.29
(1,1414)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	3	0.29
(1,1414)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	5	0.29
(1,1414)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	10	0.29
(1,1397)	1:91:A:LEU:HA	1:91:A:LEU:HD23	14	0.29
(1,1393)	1:90:A:LYS:HG2	1:90:A:LYS:HD2	5	0.29
(1,1386)	1:87:A:ILE:HD11	1:105:A:LEU:HD21	6	0.29
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	2	0.29
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	3	0.29
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	4	0.29
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	6	0.29
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	9	0.29
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	10	0.29
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	13	0.29
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	16	0.29
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	17	0.29
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	19	0.29
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	20	0.29
(1,1362)	1:170:A:ILE:HG12	1:170:A:ILE:HB	18	0.29
(1,1360)	1:130:A:LEU:HD21	1:166:A:ALA:HA	15	0.29
(1,1358)	1:54:A:ALA:HB3	1:75:A:GLY:HA3	16	0.29
(1,1343)	1:110:A:ARG:HD3	1:110:A:ARG:HB3	19	0.29
(1,1343)	1:110:A:ARG:HD3	1:110:A:ARG:HB3	20	0.29
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	11	0.29
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	17	0.29
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	19	0.29
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	20	0.29
(1,1324)	1:135:A:ALA:HB2	1:135:A:ALA:H	1	0.29
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB1	4	0.29
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD11	5	0.29
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG21	16	0.29
(1,1277)	1:169:A:LYS:HB2	1:130:A:LEU:HD12	3	0.29
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	1	0.29
(1,1247)	1:58:A:ILE:HD13	1:58:A:ILE:HG22	20	0.29
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD13	9	0.29
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	7	0.29
(1,1178)	1:30:A:PRO:HD2	1:29:A:ILE:HA	1	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	16	0.29
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	19	0.29
(1,1134)	1:104:A:LYS:H	1:104:A:LYS:HB3	2	0.29
(1,1134)	1:104:A:LYS:H	1:104:A:LYS:HB3	5	0.29
(1,1134)	1:104:A:LYS:H	1:104:A:LYS:HB3	6	0.29
(1,1111)	1:169:A:LYS:H	1:169:A:LYS:HG2	20	0.29
(1,1079)	1:27:A:VAL:H	1:27:A:VAL:HB	6	0.29
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD13	16	0.29
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG22	8	0.29
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	12	0.29
(1,1022)	1:155:A:LYS:HE2	1:155:A:LYS:HG2	13	0.29
(1,1006)	1:83:A:ALA:HB1	1:73:A:ILE:HB	1	0.29
(1,991)	1:142:A:ARG:HD2	1:142:A:ARG:HA	14	0.29
(1,982)	1:48:A:LEU:HD21	1:48:A:LEU:HB3	4	0.29
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	10	0.29
(1,978)	1:29:A:ILE:HA	1:105:A:LEU:HD13	12	0.29
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	6	0.29
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	10	0.29
(1,945)	1:139:A:VAL:HG12	1:141:A:PRO:HD3	8	0.29
(1,938)	1:24:A:THR:HG21	1:26:A:HIS:HD2	3	0.29
(1,922)	1:88:A:TYR:HB2	1:103:A:VAL:HG21	9	0.29
(1,917)	1:74:A:THR:HG21	1:24:A:THR:HA	2	0.29
(1,896)	1:170:A:ILE:HG21	1:171:A:ARG:HA	18	0.29
(1,895)	1:170:A:ILE:HD13	1:166:A:ALA:HB2	11	0.29
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	11	0.29
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG23	6	0.29
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG23	8	0.29
(1,833)	1:37:A:ILE:HD13	1:87:A:ILE:HA	12	0.29
(1,832)	1:28:A:PHE:HB3	1:106:A:GLU:HB2	13	0.29
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	3	0.29
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	5	0.29
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	6	0.29
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	10	0.29
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	12	0.29
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG21	13	0.29
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG21	16	0.29
(1,775)	1:113:A:ALA:HB3	1:152:A:VAL:HG11	7	0.29
(1,771)	1:156:A:ILE:HD11	1:163:A:SER:HA	10	0.29
(1,771)	1:156:A:ILE:HD12	1:163:A:SER:HA	14	0.29
(1,759)	1:79:A:ALA:HB1	1:76:A:PRO:HG3	2	0.29
(1,753)	1:107:A:THR:HG22	1:27:A:VAL:HA	6	0.29
(1,741)	1:156:A:ILE:HD13	1:156:A:ILE:HG23	18	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,731)	1:153:A:ILE:HG23	1:153:A:ILE:HD12	17	0.29
(1,721)	1:168:A:ARG:HA	1:168:A:ARG:HD2	20	0.29
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	5	0.29
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	11	0.29
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	16	0.29
(1,684)	1:25:A:VAL:HG11	1:107:A:THR:HG21	12	0.29
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG22	5	0.29
(1,614)	1:103:A:VAL:HG11	1:103:A:VAL:HA	19	0.29
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD13	4	0.29
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG21	13	0.29
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG21	14	0.29
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG21	17	0.29
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG21	19	0.29
(1,577)	1:176:A:GLN:HA	1:176:A:GLN:HG2	10	0.29
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD12	1	0.29
(1,553)	1:23:A:GLU:HA	1:23:A:GLU:HG3	10	0.29
(1,553)	1:23:A:GLU:HA	1:23:A:GLU:HG3	16	0.29
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG21	14	0.29
(1,516)	1:122:A:LYS:H	1:122:A:LYS:HD2	2	0.29
(1,516)	1:122:A:LYS:H	1:122:A:LYS:HD2	15	0.29
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	11	0.29
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	19	0.29
(1,492)	1:103:A:VAL:HG13	1:103:A:VAL:HG21	6	0.29
(1,492)	1:103:A:VAL:HG13	1:103:A:VAL:HG22	15	0.29
(1,450)	1:71:A:VAL:H	1:71:A:VAL:HG11	18	0.29
(1,448)	1:158:A:GLY:HA3	1:156:A:ILE:HG23	13	0.29
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG13	5	0.29
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	2	0.29
(1,436)	1:118:A:ARG:HD2	1:118:A:ARG:HG2	18	0.29
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB3	12	0.29
(1,416)	1:27:A:VAL:HG22	1:27:A:VAL:HG12	11	0.29
(1,416)	1:27:A:VAL:HG22	1:27:A:VAL:HG11	17	0.29
(1,416)	1:27:A:VAL:HG21	1:27:A:VAL:HG11	19	0.29
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	6	0.29
(1,360)	1:71:A:VAL:HA	1:71:A:VAL:HB	3	0.29
(1,360)	1:71:A:VAL:HA	1:71:A:VAL:HB	6	0.29
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	11	0.29
(1,307)	1:91:A:LEU:HG	1:105:A:LEU:HG	6	0.29
(1,296)	1:138:A:VAL:HG13	1:138:A:VAL:HG22	11	0.29
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	10	0.29
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG13	2	0.29
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG21	14	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:100:A:LYS:HE2	1:100:A:LYS:HG2	18	0.29
(1,277)	1:99:A:PRO:HB2	1:99:A:PRO:HA	10	0.29
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	10	0.29
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	2	0.29
(1,243)	1:33:A:ALA:HB2	1:96:A:PHE:HB2	4	0.29
(1,243)	1:33:A:ALA:HB3	1:96:A:PHE:HB2	7	0.29
(1,243)	1:33:A:ALA:HB2	1:96:A:PHE:HB2	8	0.29
(1,232)	1:111:A:VAL:HG11	1:111:A:VAL:HG23	10	0.29
(1,229)	1:119:A:VAL:HG11	1:116:A:ALA:HA	7	0.29
(1,215)	1:115:A:ALA:HB3	1:177:A:VAL:HG23	17	0.29
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	13	0.29
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	14	0.29
(1,132)	1:32:A:GLN:HA	1:32:A:GLN:HG2	1	0.29
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	5	0.29
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	7	0.29
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	9	0.29
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	11	0.29
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	13	0.29
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	14	0.29
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	15	0.29
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	18	0.29
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	20	0.29
(1,114)	1:52:A:ALA:HA	1:82:A:LYS:HD2	15	0.29
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG12	13	0.29
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG21	11	0.29
(1,110)	1:38:A:ILE:HA	1:38:A:ILE:HG23	16	0.29
(1,82)	1:154:A:VAL:HA	1:154:A:VAL:HG23	6	0.29
(1,1)	1:108:A:HIS:H	1:107:A:THR:HG21	3	0.29
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	16	0.28
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	3	0.28
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	3	0.28
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	6	0.28
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	16	0.28
(1,2281)	1:50:A:ARG:H	1:49:A:SER:HB2	16	0.28
(1,2237)	1:25:A:VAL:H	1:73:A:ILE:HA	6	0.28
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	13	0.28
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	17	0.28
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	3	0.28
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	13	0.28
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	2	0.28
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	9	0.28
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	16	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG21	9	0.28
(1,2131)	1:131:A:GLN:HE22	1:131:A:GLN:HB2	12	0.28
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	13	0.28
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	2	0.28
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	2	0.28
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	14	0.28
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	18	0.28
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG22	4	0.28
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG23	19	0.28
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	17	0.28
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG22	11	0.28
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	11	0.28
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD12	7	0.28
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD13	9	0.28
(1,1917)	1:29:A:ILE:H	1:28:A:PHE:HB3	16	0.28
(1,1917)	1:29:A:ILE:H	1:28:A:PHE:HB3	19	0.28
(1,1914)	1:100:A:LYS:H	1:100:A:LYS:HG2	15	0.28
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD1	11	0.28
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	2	0.28
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	4	0.28
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	6	0.28
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	8	0.28
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	10	0.28
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	13	0.28
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	19	0.28
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	6	0.28
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	8	0.28
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	9	0.28
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	11	0.28
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	12	0.28
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	16	0.28
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	1	0.28
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	3	0.28
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	16	0.28
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	1	0.28
(1,1830)	1:153:A:ILE:H	1:152:A:VAL:HG22	12	0.28
(1,1821)	1:165:A:MET:H	1:164:A:GLN:HG2	3	0.28
(1,1821)	1:165:A:MET:H	1:164:A:GLN:HG2	11	0.28
(1,1821)	1:165:A:MET:H	1:164:A:GLN:HG2	20	0.28
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	5	0.28
(1,1819)	1:88:A:TYR:H	1:86:A:ARG:H	8	0.28
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	2	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	5	0.28
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	8	0.28
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	12	0.28
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	13	0.28
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	14	0.28
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	16	0.28
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	19	0.28
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	20	0.28
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	2	0.28
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	4	0.28
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	8	0.28
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	12	0.28
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	15	0.28
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	19	0.28
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	8	0.28
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	6	0.28
(1,1774)	1:69:A:ARG:H	1:69:A:ARG:HB3	20	0.28
(1,1764)	1:51:A:PHE:H	1:50:A:ARG:HB2	16	0.28
(1,1737)	1:176:A:GLN:HE21	1:176:A:GLN:HG2	7	0.28
(1,1737)	1:176:A:GLN:HE21	1:176:A:GLN:HG2	13	0.28
(1,1715)	1:37:A:ILE:H	1:37:A:ILE:HD13	8	0.28
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	11	0.28
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	13	0.28
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	14	0.28
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	16	0.28
(1,1695)	1:97:A:PHE:H	1:97:A:PHE:HB3	20	0.28
(1,1657)	1:93:A:GLU:H	1:93:A:GLU:HG2	11	0.28
(1,1657)	1:93:A:GLU:H	1:93:A:GLU:HG2	13	0.28
(1,1657)	1:93:A:GLU:H	1:93:A:GLU:HG2	15	0.28
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	1	0.28
(1,1644)	1:70:A:MET:H	1:69:A:ARG:HB2	5	0.28
(1,1600)	1:138:A:VAL:HG11	1:127:A:VAL:HG22	12	0.28
(1,1600)	1:138:A:VAL:HG13	1:127:A:VAL:HG22	18	0.28
(1,1596)	1:72:A:VAL:HG12	1:72:A:VAL:HG21	18	0.28
(1,1576)	1:29:A:ILE:HD12	1:33:A:ALA:HB2	16	0.28
(1,1570)	1:56:A:ILE:HD13	1:83:A:ALA:HB1	16	0.28
(1,1565)	1:93:A:GLU:HA	1:93:A:GLU:HB2	14	0.28
(1,1565)	1:93:A:GLU:HA	1:93:A:GLU:HB2	19	0.28
(1,1559)	1:37:A:ILE:HD13	1:37:A:ILE:HG22	14	0.28
(1,1553)	1:87:A:ILE:HD11	1:29:A:ILE:HG23	3	0.28
(1,1553)	1:87:A:ILE:HD11	1:29:A:ILE:HG23	7	0.28
(1,1553)	1:87:A:ILE:HD11	1:29:A:ILE:HG23	8	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	16	0.28
(1,1518)	1:22:A:GLN:HB3	1:22:A:GLN:HG3	2	0.28
(1,1518)	1:22:A:GLN:HB3	1:22:A:GLN:HG3	5	0.28
(1,1518)	1:22:A:GLN:HB3	1:22:A:GLN:HG3	6	0.28
(1,1518)	1:22:A:GLN:HB3	1:22:A:GLN:HG3	7	0.28
(1,1518)	1:22:A:GLN:HB3	1:22:A:GLN:HG3	8	0.28
(1,1518)	1:22:A:GLN:HB3	1:22:A:GLN:HG3	9	0.28
(1,1518)	1:22:A:GLN:HB3	1:22:A:GLN:HG3	10	0.28
(1,1518)	1:22:A:GLN:HB3	1:22:A:GLN:HG3	11	0.28
(1,1518)	1:22:A:GLN:HB3	1:22:A:GLN:HG3	14	0.28
(1,1518)	1:22:A:GLN:HB3	1:22:A:GLN:HG3	18	0.28
(1,1510)	1:93:A:GLU:HG2	1:94:A:GLU:H	6	0.28
(1,1510)	1:93:A:GLU:HG2	1:94:A:GLU:H	9	0.28
(1,1501)	1:59:A:ALA:HB2	1:72:A:VAL:HG21	19	0.28
(1,1495)	1:174:A:LEU:HD23	1:118:A:ARG:HG3	9	0.28
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB1	9	0.28
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	1	0.28
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	1	0.28
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	7	0.28
(1,1407)	1:33:A:ALA:HB3	1:30:A:PRO:HB3	12	0.28
(1,1396)	1:91:A:LEU:HD23	1:30:A:PRO:HD3	4	0.28
(1,1396)	1:91:A:LEU:HD22	1:30:A:PRO:HD3	7	0.28
(1,1386)	1:87:A:ILE:HD12	1:105:A:LEU:HD21	4	0.28
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	1	0.28
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	5	0.28
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	8	0.28
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	12	0.28
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	14	0.28
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	15	0.28
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	18	0.28
(1,1373)	1:94:A:GLU:HB2	1:96:A:PHE:HZ	17	0.28
(1,1371)	1:68:A:VAL:HG22	1:69:A:ARG:H	6	0.28
(1,1371)	1:68:A:VAL:HG22	1:69:A:ARG:H	18	0.28
(1,1366)	1:48:A:LEU:HD22	1:86:A:ARG:HD3	9	0.28
(1,1362)	1:170:A:ILE:HG12	1:170:A:ILE:HB	15	0.28
(1,1362)	1:170:A:ILE:HG12	1:170:A:ILE:HB	19	0.28
(1,1360)	1:130:A:LEU:HD22	1:166:A:ALA:HA	10	0.28
(1,1360)	1:130:A:LEU:HD22	1:166:A:ALA:HA	17	0.28
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	10	0.28
(1,1324)	1:135:A:ALA:HB3	1:135:A:ALA:H	5	0.28
(1,1324)	1:135:A:ALA:HB1	1:135:A:ALA:H	16	0.28
(1,1324)	1:135:A:ALA:HB2	1:135:A:ALA:H	18	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG23	19	0.28
(1,1300)	1:105:A:LEU:HD12	1:29:A:ILE:HG23	2	0.28
(1,1289)	1:31:A:ALA:HB2	1:67:A:LYS:HA	8	0.28
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	6	0.28
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	2	0.28
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	3	0.28
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	5	0.28
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	7	0.28
(1,1261)	1:104:A:LYS:HG3	1:104:A:LYS:HD2	5	0.28
(1,1261)	1:104:A:LYS:HG3	1:104:A:LYS:HD2	20	0.28
(1,1247)	1:58:A:ILE:HD13	1:58:A:ILE:HG22	17	0.28
(1,1247)	1:58:A:ILE:HD12	1:58:A:ILE:HG21	19	0.28
(1,1204)	1:93:A:GLU:HB2	1:93:A:GLU:HG3	13	0.28
(1,1204)	1:93:A:GLU:HB2	1:93:A:GLU:HG3	16	0.28
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD13	4	0.28
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD11	6	0.28
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	1	0.28
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	3	0.28
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	12	0.28
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	13	0.28
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	19	0.28
(1,1134)	1:104:A:LYS:H	1:104:A:LYS:HB3	4	0.28
(1,1133)	1:104:A:LYS:H	1:104:A:LYS:HB2	16	0.28
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD11	12	0.28
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	12	0.28
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD12	13	0.28
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG21	2	0.28
(1,1014)	1:166:A:ALA:HB1	1:134:A:THR:HG22	17	0.28
(1,998)	1:104:A:LYS:HE2	1:157:A:ILE:HG23	4	0.28
(1,998)	1:104:A:LYS:HE2	1:157:A:ILE:HG23	8	0.28
(1,995)	1:18:A:MET:HA	1:18:A:MET:HB2	8	0.28
(1,990)	1:110:A:ARG:HD3	1:153:A:ILE:HD12	6	0.28
(1,982)	1:48:A:LEU:HD21	1:48:A:LEU:HB3	13	0.28
(1,971)	1:52:A:ALA:HB3	1:56:A:ILE:HD11	12	0.28
(1,960)	1:178:A:LYS:HG2	1:178:A:LYS:HB3	20	0.28
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	2	0.28
(1,938)	1:24:A:THR:HG21	1:26:A:HIS:HD2	17	0.28
(1,922)	1:88:A:TYR:HB2	1:103:A:VAL:HG22	10	0.28
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	8	0.28
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	11	0.28
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	16	0.28
(1,871)	1:136:A:ALA:HB1	1:162:A:ALA:HA	16	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,855)	1:25:A:VAL:HG22	1:25:A:VAL:HB	2	0.28
(1,855)	1:25:A:VAL:HG22	1:25:A:VAL:HB	7	0.28
(1,855)	1:25:A:VAL:HG23	1:25:A:VAL:HB	12	0.28
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	5	0.28
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	15	0.28
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	16	0.28
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	17	0.28
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	10	0.28
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	2	0.28
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	9	0.28
(1,820)	1:119:A:VAL:HG11	1:119:A:VAL:HG22	20	0.28
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	13	0.28
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	17	0.28
(1,782)	1:105:A:LEU:HD13	1:105:A:LEU:HB3	9	0.28
(1,771)	1:156:A:ILE:HD11	1:163:A:SER:HA	7	0.28
(1,771)	1:156:A:ILE:HD11	1:163:A:SER:HA	12	0.28
(1,771)	1:156:A:ILE:HD13	1:163:A:SER:HA	18	0.28
(1,765)	1:157:A:ILE:HD11	1:157:A:ILE:HB	11	0.28
(1,759)	1:79:A:ALA:HB3	1:76:A:PRO:HG3	14	0.28
(1,745)	1:145:A:THR:HG22	1:146:A:PRO:HD3	4	0.28
(1,741)	1:156:A:ILE:HD12	1:156:A:ILE:HG21	3	0.28
(1,741)	1:156:A:ILE:HD11	1:156:A:ILE:HG22	19	0.28
(1,731)	1:153:A:ILE:HG23	1:153:A:ILE:HD13	10	0.28
(1,708)	1:83:A:ALA:HA	1:48:A:LEU:HD12	19	0.28
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	3	0.28
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	7	0.28
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	8	0.28
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	10	0.28
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	17	0.28
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	18	0.28
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	20	0.28
(1,692)	1:115:A:ALA:HB2	1:111:A:VAL:HG23	17	0.28
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	4	0.28
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	10	0.28
(1,671)	1:116:A:ALA:HB2	1:140:A:VAL:HG21	15	0.28
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD11	20	0.28
(1,651)	1:100:A:LYS:HA	1:100:A:LYS:HD2	20	0.28
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG22	3	0.28
(1,608)	1:174:A:LEU:HD13	1:112:A:PRO:HD3	19	0.28
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD11	9	0.28
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD11	10	0.28
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG23	2	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG21	3	0.28
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG22	5	0.28
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG22	8	0.28
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG22	1	0.28
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG23	5	0.28
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG23	12	0.28
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG21	15	0.28
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG22	20	0.28
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD12	7	0.28
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD13	13	0.28
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD11	15	0.28
(1,565)	1:92:A:LYS:HA	1:92:A:LYS:HG2	12	0.28
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG23	4	0.28
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG21	9	0.28
(1,516)	1:122:A:LYS:H	1:122:A:LYS:HD2	4	0.28
(1,516)	1:122:A:LYS:H	1:122:A:LYS:HD2	5	0.28
(1,492)	1:103:A:VAL:HG13	1:103:A:VAL:HG23	1	0.28
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	11	0.28
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	14	0.28
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	15	0.28
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	17	0.28
(1,469)	1:14:A:PHE:H	1:14:A:PHE:HB3	2	0.28
(1,469)	1:14:A:PHE:H	1:14:A:PHE:HB3	4	0.28
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	3	0.28
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG11	10	0.28
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG13	11	0.28
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG11	15	0.28
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG11	19	0.28
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG11	20	0.28
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG12	19	0.28
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG13	20	0.28
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	3	0.28
(1,416)	1:27:A:VAL:HG21	1:27:A:VAL:HG13	9	0.28
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	7	0.28
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	11	0.28
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	15	0.28
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	18	0.28
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	15	0.28
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	3	0.28
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	9	0.28
(1,370)	1:154:A:VAL:HG23	1:119:A:VAL:HG21	9	0.28
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	15	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB2	17	0.28
(1,301)	1:55:A:SER:H	1:55:A:SER:HB2	5	0.28
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	3	0.28
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	7	0.28
(1,296)	1:138:A:VAL:HG12	1:138:A:VAL:HG22	15	0.28
(1,296)	1:138:A:VAL:HG12	1:138:A:VAL:HG21	19	0.28
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	18	0.28
(1,291)	1:152:A:VAL:HG12	1:144:A:GLN:HG2	3	0.28
(1,291)	1:152:A:VAL:HG11	1:144:A:GLN:HG2	13	0.28
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	12	0.28
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	5	0.28
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	7	0.28
(1,263)	1:47:A:GLN:HA	1:47:A:GLN:HB3	7	0.28
(1,243)	1:33:A:ALA:HB1	1:96:A:PHE:HB2	3	0.28
(1,228)	1:109:A:ILE:HG22	1:171:A:ARG:HD2	1	0.28
(1,228)	1:109:A:ILE:HG22	1:171:A:ARG:HD2	14	0.28
(1,210)	1:45:A:ILE:HG12	1:56:A:ILE:HG23	12	0.28
(1,210)	1:45:A:ILE:HG12	1:56:A:ILE:HG21	14	0.28
(1,210)	1:45:A:ILE:HG12	1:56:A:ILE:HG21	20	0.28
(1,209)	1:52:A:ALA:HB1	1:54:A:ALA:HB2	5	0.28
(1,209)	1:52:A:ALA:HB2	1:54:A:ALA:HB2	13	0.28
(1,157)	1:94:A:GLU:HA	1:94:A:GLU:HG2	20	0.28
(1,125)	1:112:A:PRO:HD3	1:174:A:LEU:HD21	14	0.28
(1,125)	1:112:A:PRO:HD3	1:174:A:LEU:HD21	20	0.28
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD21	2	0.28
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD21	5	0.28
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD21	11	0.28
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD21	14	0.28
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD22	17	0.28
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD23	19	0.28
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD22	20	0.28
(1,74)	1:144:A:GLN:HA	1:144:A:GLN:HG2	8	0.28
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG21	2	0.28
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	19	0.27
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	9	0.27
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	9	0.27
(1,2441)	2:1:B:U:H5	2:1:B:U:H3'	11	0.27
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	5	0.27
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	13	0.27
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	13	0.27
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	12	0.27
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	20	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	16	0.27
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB1	12	0.27
(1,2131)	1:131:A:GLN:HE22	1:131:A:GLN:HB2	7	0.27
(1,2131)	1:131:A:GLN:HE22	1:131:A:GLN:HB2	9	0.27
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	1	0.27
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	2	0.27
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	5	0.27
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	6	0.27
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	8	0.27
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	9	0.27
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	10	0.27
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	11	0.27
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	13	0.27
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	14	0.27
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	15	0.27
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	16	0.27
(1,2129)	1:151:A:GLN:HE22	1:151:A:GLN:HG3	20	0.27
(1,2120)	1:128:A:ASN:HD22	1:128:A:ASN:HB2	4	0.27
(1,2120)	1:128:A:ASN:HD22	1:128:A:ASN:HB2	6	0.27
(1,2120)	1:128:A:ASN:HD22	1:128:A:ASN:HB2	7	0.27
(1,2120)	1:128:A:ASN:HD22	1:128:A:ASN:HB2	9	0.27
(1,2120)	1:128:A:ASN:HD22	1:128:A:ASN:HB2	10	0.27
(1,2120)	1:128:A:ASN:HD22	1:128:A:ASN:HB2	11	0.27
(1,2120)	1:128:A:ASN:HD22	1:128:A:ASN:HB2	12	0.27
(1,2120)	1:128:A:ASN:HD22	1:128:A:ASN:HB2	13	0.27
(1,2120)	1:128:A:ASN:HD22	1:128:A:ASN:HB2	14	0.27
(1,2120)	1:128:A:ASN:HD22	1:128:A:ASN:HB2	19	0.27
(1,2120)	1:128:A:ASN:HD22	1:128:A:ASN:HB2	20	0.27
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	13	0.27
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	18	0.27
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	16	0.27
(1,2074)	1:143:A:ASP:H	1:143:A:ASP:HA	1	0.27
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	1	0.27
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	3	0.27
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB3	2	0.27
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB1	17	0.27
(1,2023)	1:70:A:MET:H	1:70:A:MET:HB2	17	0.27
(1,2011)	1:12:A:ALA:H	1:12:A:ALA:HB2	16	0.27
(1,1999)	1:31:A:ALA:H	1:68:A:VAL:HB	12	0.27
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG22	17	0.27
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG11	6	0.27
(1,1981)	1:176:A:GLN:HE22	1:176:A:GLN:HB3	12	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG23	1	0.27
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB3	9	0.27
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	17	0.27
(1,1917)	1:29:A:ILE:H	1:28:A:PHE:HB3	12	0.27
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	18	0.27
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	18	0.27
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	6	0.27
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	7	0.27
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	9	0.27
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	12	0.27
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	7	0.27
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	12	0.27
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	20	0.27
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	3	0.27
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	5	0.27
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	14	0.27
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	3	0.27
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	6	0.27
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	15	0.27
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	1	0.27
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	3	0.27
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	4	0.27
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	9	0.27
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	11	0.27
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	15	0.27
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	17	0.27
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB2	20	0.27
(1,1816)	1:68:A:VAL:H	1:66:A:SER:HB3	8	0.27
(1,1813)	1:33:A:ALA:H	1:34:A:VAL:HG21	10	0.27
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	9	0.27
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	16	0.27
(1,1797)	1:148:A:GLU:H	1:147:A:ASP:HB2	14	0.27
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	7	0.27
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG23	20	0.27
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	13	0.27
(1,1755)	1:21:A:GLU:H	1:21:A:GLU:HG2	1	0.27
(1,1737)	1:176:A:GLN:HE21	1:176:A:GLN:HG2	1	0.27
(1,1737)	1:176:A:GLN:HE21	1:176:A:GLN:HG2	2	0.27
(1,1737)	1:176:A:GLN:HE21	1:176:A:GLN:HG2	3	0.27
(1,1737)	1:176:A:GLN:HE21	1:176:A:GLN:HG2	4	0.27
(1,1737)	1:176:A:GLN:HE21	1:176:A:GLN:HG2	6	0.27
(1,1737)	1:176:A:GLN:HE21	1:176:A:GLN:HG2	9	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1715)	1:37:A:ILE:H	1:37:A:ILE:HD11	7	0.27
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	5	0.27
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	12	0.27
(1,1695)	1:97:A:PHE:H	1:97:A:PHE:HB3	10	0.27
(1,1695)	1:97:A:PHE:H	1:97:A:PHE:HB3	11	0.27
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	16	0.27
(1,1666)	1:101:A:GLU:H	1:101:A:GLU:HG2	11	0.27
(1,1632)	1:139:A:VAL:H	1:138:A:VAL:HG23	20	0.27
(1,1628)	1:74:A:THR:H	1:56:A:ILE:HA	15	0.27
(1,1628)	1:74:A:THR:H	1:56:A:ILE:HA	17	0.27
(1,1608)	1:103:A:VAL:H	1:102:A:GLU:HG2	15	0.27
(1,1603)	1:134:A:THR:HG22	1:165:A:MET:HG3	15	0.27
(1,1599)	1:127:A:VAL:HA	1:138:A:VAL:HB	19	0.27
(1,1596)	1:72:A:VAL:HG13	1:72:A:VAL:HG21	15	0.27
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB1	6	0.27
(1,1578)	1:30:A:PRO:HD2	1:29:A:ILE:HG23	2	0.27
(1,1576)	1:29:A:ILE:HD13	1:33:A:ALA:HB1	10	0.27
(1,1568)	1:37:A:ILE:HG12	1:29:A:ILE:HD11	16	0.27
(1,1565)	1:93:A:GLU:HA	1:93:A:GLU:HB2	20	0.27
(1,1559)	1:37:A:ILE:HD12	1:37:A:ILE:HG23	16	0.27
(1,1559)	1:37:A:ILE:HD11	1:37:A:ILE:HG23	18	0.27
(1,1544)	1:173:A:ILE:HG21	1:119:A:VAL:HA	8	0.27
(1,1544)	1:173:A:ILE:HG22	1:119:A:VAL:HA	12	0.27
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG22	5	0.27
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG22	14	0.27
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	17	0.27
(1,1514)	1:139:A:VAL:H	1:139:A:VAL:HG23	18	0.27
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	8	0.27
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	14	0.27
(1,1501)	1:59:A:ALA:HB2	1:72:A:VAL:HG22	1	0.27
(1,1487)	1:38:A:ILE:HD11	1:58:A:ILE:H	1	0.27
(1,1487)	1:38:A:ILE:HD13	1:58:A:ILE:H	16	0.27
(1,1428)	1:89:A:GLY:H	1:86:A:ARG:HA	12	0.27
(1,1407)	1:33:A:ALA:HB3	1:30:A:PRO:HB3	17	0.27
(1,1397)	1:91:A:LEU:HA	1:91:A:LEU:HD23	19	0.27
(1,1396)	1:91:A:LEU:HD23	1:30:A:PRO:HD3	6	0.27
(1,1393)	1:90:A:LYS:HG2	1:90:A:LYS:HD2	4	0.27
(1,1374)	1:77:A:PRO:HD2	1:77:A:PRO:HB2	11	0.27
(1,1371)	1:68:A:VAL:HG21	1:69:A:ARG:H	20	0.27
(1,1362)	1:170:A:ILE:HG12	1:170:A:ILE:HB	3	0.27
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	1	0.27
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	3	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	6	0.27
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	9	0.27
(1,1298)	1:105:A:LEU:HG	1:30:A:PRO:HD3	2	0.27
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD12	11	0.27
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD11	18	0.27
(1,1284)	1:29:A:ILE:HD13	1:30:A:PRO:HD2	4	0.27
(1,1283)	1:108:A:HIS:HB2	1:153:A:ILE:HG23	4	0.27
(1,1272)	1:97:A:PHE:HE1	1:103:A:VAL:HG12	11	0.27
(1,1261)	1:104:A:LYS:HG3	1:104:A:LYS:HD2	2	0.27
(1,1261)	1:104:A:LYS:HG3	1:104:A:LYS:HD2	4	0.27
(1,1261)	1:104:A:LYS:HG3	1:104:A:LYS:HD2	6	0.27
(1,1261)	1:104:A:LYS:HG3	1:104:A:LYS:HD2	15	0.27
(1,1261)	1:104:A:LYS:HG3	1:104:A:LYS:HD2	18	0.27
(1,1242)	1:25:A:VAL:HG12	1:26:A:HIS:HA	4	0.27
(1,1241)	1:34:A:VAL:HG12	1:37:A:ILE:HB	14	0.27
(1,1241)	1:34:A:VAL:HG13	1:37:A:ILE:HB	16	0.27
(1,1236)	1:90:A:LYS:HG2	1:37:A:ILE:HD11	4	0.27
(1,1204)	1:93:A:GLU:HB2	1:93:A:GLU:HG3	11	0.27
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD12	15	0.27
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	11	0.27
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	14	0.27
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	15	0.27
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	16	0.27
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	17	0.27
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	18	0.27
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	20	0.27
(1,1134)	1:104:A:LYS:H	1:104:A:LYS:HB3	9	0.27
(1,1133)	1:104:A:LYS:H	1:104:A:LYS:HB2	7	0.27
(1,1122)	1:82:A:LYS:H	1:52:A:ALA:HB3	4	0.27
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	4	0.27
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	9	0.27
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD12	14	0.27
(1,1079)	1:27:A:VAL:H	1:27:A:VAL:HB	4	0.27
(1,1079)	1:27:A:VAL:H	1:27:A:VAL:HB	10	0.27
(1,1079)	1:27:A:VAL:H	1:27:A:VAL:HB	14	0.27
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	17	0.27
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG21	1	0.27
(1,1064)	1:97:A:PHE:HE1	1:91:A:LEU:HD13	12	0.27
(1,1059)	1:48:A:LEU:HD13	1:51:A:PHE:HD1	14	0.27
(1,1014)	1:166:A:ALA:HB2	1:134:A:THR:HG21	15	0.27
(1,999)	1:157:A:ILE:HG22	1:104:A:LYS:HA	6	0.27
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	7	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	8	0.27
(1,945)	1:139:A:VAL:HG12	1:141:A:PRO:HD3	18	0.27
(1,944)	1:138:A:VAL:HG13	1:127:A:VAL:HA	13	0.27
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD3	2	0.27
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	18	0.27
(1,865)	1:116:A:ALA:HB3	1:140:A:VAL:HB	2	0.27
(1,863)	1:87:A:ILE:HG21	1:84:A:GLN:HA	8	0.27
(1,855)	1:25:A:VAL:HG22	1:25:A:VAL:HB	13	0.27
(1,855)	1:25:A:VAL:HG21	1:25:A:VAL:HB	14	0.27
(1,855)	1:25:A:VAL:HG22	1:25:A:VAL:HB	15	0.27
(1,855)	1:25:A:VAL:HG21	1:25:A:VAL:HB	17	0.27
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	1	0.27
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	6	0.27
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	9	0.27
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG22	20	0.27
(1,832)	1:28:A:PHE:HB3	1:106:A:GLU:HB2	19	0.27
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	4	0.27
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	7	0.27
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	8	0.27
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	10	0.27
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	1	0.27
(1,782)	1:105:A:LEU:HD12	1:105:A:LEU:HB3	1	0.27
(1,782)	1:105:A:LEU:HD13	1:105:A:LEU:HB3	19	0.27
(1,771)	1:156:A:ILE:HD11	1:163:A:SER:HA	20	0.27
(1,759)	1:79:A:ALA:HB2	1:76:A:PRO:HG3	15	0.27
(1,759)	1:79:A:ALA:HB1	1:76:A:PRO:HG3	18	0.27
(1,742)	1:156:A:ILE:HD11	1:166:A:ALA:HB1	2	0.27
(1,742)	1:156:A:ILE:HD12	1:166:A:ALA:HB2	16	0.27
(1,741)	1:156:A:ILE:HD11	1:156:A:ILE:HG21	4	0.27
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	2	0.27
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	6	0.27
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	12	0.27
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	14	0.27
(1,684)	1:25:A:VAL:HG13	1:107:A:THR:HG22	17	0.27
(1,684)	1:25:A:VAL:HG11	1:107:A:THR:HG21	20	0.27
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	2	0.27
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	9	0.27
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	14	0.27
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	16	0.27
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	20	0.27
(1,671)	1:116:A:ALA:HB2	1:140:A:VAL:HG22	19	0.27
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD11	2	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD12	5	0.27
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD12	11	0.27
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD11	12	0.27
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD11	14	0.27
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD11	17	0.27
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD13	19	0.27
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG22	11	0.27
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG22	12	0.27
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG22	15	0.27
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG22	18	0.27
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG23	19	0.27
(1,609)	1:34:A:VAL:HA	1:34:A:VAL:HG11	13	0.27
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	10	0.27
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG21	4	0.27
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG22	11	0.27
(1,585)	1:22:A:GLN:HA	1:22:A:GLN:HG2	12	0.27
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG21	2	0.27
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG21	3	0.27
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG23	6	0.27
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG21	7	0.27
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG21	8	0.27
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG21	9	0.27
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG22	11	0.27
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG21	18	0.27
(1,565)	1:92:A:LYS:HA	1:92:A:LYS:HG2	16	0.27
(1,565)	1:92:A:LYS:HA	1:92:A:LYS:HG2	20	0.27
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG23	3	0.27
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG23	7	0.27
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG22	13	0.27
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG22	15	0.27
(1,525)	1:105:A:LEU:HD12	1:97:A:PHE:HD1	14	0.27
(1,520)	1:127:A:VAL:HG11	1:137:A:GLU:HA	12	0.27
(1,520)	1:127:A:VAL:HG13	1:137:A:GLU:HA	13	0.27
(1,516)	1:122:A:LYS:H	1:122:A:LYS:HD2	18	0.27
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG21	12	0.27
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	1	0.27
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	5	0.27
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	6	0.27
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	7	0.27
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	12	0.27
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	19	0.27
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	18	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG13	17	0.27
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	4	0.27
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	9	0.27
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB1	15	0.27
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB3	19	0.27
(1,416)	1:27:A:VAL:HG23	1:27:A:VAL:HG13	4	0.27
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	2	0.27
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	3	0.27
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	8	0.27
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	12	0.27
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	16	0.27
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	17	0.27
(1,370)	1:154:A:VAL:HG23	1:119:A:VAL:HG22	19	0.27
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB1	4	0.27
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB3	8	0.27
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB3	15	0.27
(1,301)	1:55:A:SER:H	1:55:A:SER:HB2	10	0.27
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	9	0.27
(1,291)	1:152:A:VAL:HG11	1:144:A:GLN:HG2	9	0.27
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG13	8	0.27
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG23	3	0.27
(1,228)	1:109:A:ILE:HG21	1:171:A:ARG:HD2	11	0.27
(1,228)	1:109:A:ILE:HG23	1:171:A:ARG:HD2	20	0.27
(1,215)	1:115:A:ALA:HB3	1:177:A:VAL:HG22	6	0.27
(1,209)	1:52:A:ALA:HB1	1:54:A:ALA:HB2	2	0.27
(1,183)	1:22:A:GLN:HB2	1:22:A:GLN:HG3	12	0.27
(1,160)	1:62:A:GLU:HA	1:62:A:GLU:HB2	16	0.27
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG12	20	0.27
(1,132)	1:32:A:GLN:HA	1:32:A:GLN:HG2	9	0.27
(1,114)	1:52:A:ALA:HA	1:82:A:LYS:HD2	16	0.27
(1,113)	1:177:A:VAL:HA	1:177:A:VAL:HG12	7	0.27
(1,82)	1:154:A:VAL:HA	1:154:A:VAL:HG22	8	0.27
(1,80)	1:133:A:LEU:HA	1:133:A:LEU:HD23	12	0.27
(1,74)	1:144:A:GLN:HA	1:144:A:GLN:HG2	3	0.27
(1,74)	1:144:A:GLN:HA	1:144:A:GLN:HG2	16	0.27
(1,23)	1:165:A:MET:H	1:162:A:ALA:HA	5	0.27
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	7	0.26
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	7	0.26
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	15	0.26
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	15	0.26
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	3	0.26
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	10	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2365)	1:71:A:VAL:HA	1:58:A:ILE:HA	2	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	1	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	2	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	3	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	4	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	5	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	6	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	7	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	8	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	9	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	10	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	11	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	12	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	13	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	14	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	15	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	16	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	17	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	18	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	19	0.26
(1,2266)	1:32:A:GLN:HE22	1:32:A:GLN:HG3	20	0.26
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	1	0.26
(1,2237)	1:25:A:VAL:H	1:73:A:ILE:HA	10	0.26
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	9	0.26
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	12	0.26
(1,2219)	1:158:A:GLY:H	1:136:A:ALA:HA	11	0.26
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	5	0.26
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	6	0.26
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB1	18	0.26
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG23	6	0.26
(1,2131)	1:131:A:GLN:HE22	1:131:A:GLN:HB2	14	0.26
(1,2120)	1:128:A:ASN:HD22	1:128:A:ASN:HB2	17	0.26
(1,2096)	1:29:A:ILE:H	1:28:A:PHE:HB2	10	0.26
(1,2074)	1:143:A:ASP:H	1:143:A:ASP:HA	7	0.26
(1,2074)	1:143:A:ASP:H	1:143:A:ASP:HA	16	0.26
(1,2074)	1:143:A:ASP:H	1:143:A:ASP:HA	18	0.26
(1,2074)	1:143:A:ASP:H	1:143:A:ASP:HA	20	0.26
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB2	1	0.26
(1,1990)	1:73:A:ILE:H	1:73:A:ILE:HB	7	0.26
(1,1981)	1:176:A:GLN:HE22	1:176:A:GLN:HB3	18	0.26
(1,1964)	1:108:A:HIS:H	1:28:A:PHE:HB3	14	0.26
(1,1934)	1:66:A:SER:H	1:62:A:GLU:HB3	11	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	12	0.26
(1,1885)	1:155:A:LYS:H	1:139:A:VAL:HG12	10	0.26
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB3	17	0.26
(1,1873)	1:113:A:ALA:H	1:151:A:GLN:H	17	0.26
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	20	0.26
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	10	0.26
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	4	0.26
(1,1818)	1:68:A:VAL:H	1:68:A:VAL:HB	7	0.26
(1,1813)	1:33:A:ALA:H	1:34:A:VAL:HG21	13	0.26
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	10	0.26
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	11	0.26
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	13	0.26
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	14	0.26
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	4	0.26
(1,1764)	1:51:A:PHE:H	1:50:A:ARG:HB2	4	0.26
(1,1764)	1:51:A:PHE:H	1:50:A:ARG:HB2	6	0.26
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	18	0.26
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	10	0.26
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	18	0.26
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	11	0.26
(1,1664)	1:101:A:GLU:H	1:100:A:LYS:HG2	2	0.26
(1,1641)	1:36:A:ALA:H	1:33:A:ALA:HA	18	0.26
(1,1628)	1:74:A:THR:H	1:56:A:ILE:HA	19	0.26
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	2	0.26
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	4	0.26
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	9	0.26
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	10	0.26
(1,1596)	1:72:A:VAL:HG11	1:72:A:VAL:HG23	17	0.26
(1,1581)	1:48:A:LEU:HG	1:56:A:ILE:HD13	2	0.26
(1,1578)	1:30:A:PRO:HD2	1:29:A:ILE:HG21	10	0.26
(1,1576)	1:29:A:ILE:HD13	1:33:A:ALA:HB1	2	0.26
(1,1576)	1:29:A:ILE:HD12	1:33:A:ALA:HB1	12	0.26
(1,1568)	1:37:A:ILE:HG12	1:29:A:ILE:HD12	12	0.26
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG11	1	0.26
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG12	4	0.26
(1,1559)	1:37:A:ILE:HD12	1:37:A:ILE:HG21	4	0.26
(1,1553)	1:87:A:ILE:HD12	1:29:A:ILE:HG23	10	0.26
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	18	0.26
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	2	0.26
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	4	0.26
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	5	0.26
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	7	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	8	0.26
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	13	0.26
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	19	0.26
(1,1510)	1:93:A:GLU:HG2	1:94:A:GLU:H	3	0.26
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	7	0.26
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	13	0.26
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	19	0.26
(1,1407)	1:33:A:ALA:HB2	1:30:A:PRO:HB3	20	0.26
(1,1393)	1:90:A:LYS:HG2	1:90:A:LYS:HD2	3	0.26
(1,1393)	1:90:A:LYS:HG2	1:90:A:LYS:HD2	6	0.26
(1,1393)	1:90:A:LYS:HG2	1:90:A:LYS:HD2	9	0.26
(1,1363)	1:170:A:ILE:H	1:170:A:ILE:HD13	16	0.26
(1,1360)	1:130:A:LEU:HD21	1:166:A:ALA:HA	13	0.26
(1,1358)	1:54:A:ALA:HB1	1:75:A:GLY:HA3	5	0.26
(1,1346)	1:153:A:ILE:HG22	1:110:A:ARG:HD2	18	0.26
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	4	0.26
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	7	0.26
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	8	0.26
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB1	11	0.26
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD11	9	0.26
(1,1273)	1:96:A:PHE:HZ	1:94:A:GLU:HG2	1	0.26
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	16	0.26
(1,1249)	1:34:A:VAL:HA	1:58:A:ILE:HD12	5	0.26
(1,1249)	1:34:A:VAL:HA	1:58:A:ILE:HD13	17	0.26
(1,1241)	1:34:A:VAL:HG12	1:37:A:ILE:HB	15	0.26
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	15	0.26
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	8	0.26
(1,1204)	1:93:A:GLU:HB2	1:93:A:GLU:HG3	4	0.26
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD11	17	0.26
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	11	0.26
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	15	0.26
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	17	0.26
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	1	0.26
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	3	0.26
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	4	0.26
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	6	0.26
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	7	0.26
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	8	0.26
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	9	0.26
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	10	0.26
(1,1133)	1:104:A:LYS:H	1:104:A:LYS:HB2	1	0.26
(1,1133)	1:104:A:LYS:H	1:104:A:LYS:HB2	11	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	17	0.26
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD11	16	0.26
(1,1079)	1:27:A:VAL:H	1:27:A:VAL:HB	2	0.26
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD13	6	0.26
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD12	17	0.26
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG23	7	0.26
(1,1043)	1:97:A:PHE:HD1	1:97:A:PHE:HB2	13	0.26
(1,1012)	1:136:A:ALA:HA	1:162:A:ALA:HB3	20	0.26
(1,999)	1:157:A:ILE:HG21	1:104:A:LYS:HA	7	0.26
(1,999)	1:157:A:ILE:HG21	1:104:A:LYS:HA	14	0.26
(1,999)	1:157:A:ILE:HG21	1:104:A:LYS:HA	20	0.26
(1,998)	1:157:A:ILE:HG21	1:104:A:LYS:HE3	13	0.26
(1,998)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	20	0.26
(1,983)	1:48:A:LEU:HD21	1:83:A:ALA:HA	7	0.26
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	5	0.26
(1,971)	1:52:A:ALA:HB2	1:56:A:ILE:HD13	18	0.26
(1,967)	1:94:A:GLU:HB2	1:96:A:PHE:HD1	12	0.26
(1,967)	1:94:A:GLU:HB2	1:96:A:PHE:HD1	15	0.26
(1,954)	1:119:A:VAL:HB	1:120:A:ILE:HD11	17	0.26
(1,954)	1:119:A:VAL:HB	1:120:A:ILE:HD13	19	0.26
(1,945)	1:139:A:VAL:HG11	1:141:A:PRO:HD3	7	0.26
(1,941)	1:153:A:ILE:HG22	1:155:A:LYS:HA	10	0.26
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD3	6	0.26
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	4	0.26
(1,901)	1:90:A:LYS:HE2	1:94:A:GLU:HG3	10	0.26
(1,889)	1:96:A:PHE:HE1	1:36:A:ALA:HB1	1	0.26
(1,889)	1:96:A:PHE:HE1	1:36:A:ALA:HB2	8	0.26
(1,865)	1:116:A:ALA:HB3	1:140:A:VAL:HB	12	0.26
(1,855)	1:25:A:VAL:HG22	1:25:A:VAL:HB	4	0.26
(1,855)	1:25:A:VAL:HG21	1:25:A:VAL:HB	5	0.26
(1,855)	1:25:A:VAL:HG23	1:25:A:VAL:HB	10	0.26
(1,855)	1:25:A:VAL:HG23	1:25:A:VAL:HB	11	0.26
(1,855)	1:25:A:VAL:HG23	1:25:A:VAL:HB	18	0.26
(1,855)	1:25:A:VAL:HG22	1:25:A:VAL:HB	19	0.26
(1,855)	1:25:A:VAL:HG22	1:25:A:VAL:HB	20	0.26
(1,853)	1:176:A:GLN:HG2	1:176:A:GLN:HB3	8	0.26
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG23	12	0.26
(1,837)	1:141:A:PRO:HD2	1:140:A:VAL:HA	10	0.26
(1,837)	1:141:A:PRO:HD2	1:140:A:VAL:HA	20	0.26
(1,832)	1:28:A:PHE:HB3	1:106:A:GLU:HB2	12	0.26
(1,832)	1:28:A:PHE:HB3	1:106:A:GLU:HB2	17	0.26
(1,824)	1:92:A:LYS:HG2	1:92:A:LYS:HD2	1	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,798)	1:48:A:LEU:HD13	1:48:A:LEU:HB3	11	0.26
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD13	10	0.26
(1,784)	1:34:A:VAL:HG12	1:58:A:ILE:HD11	20	0.26
(1,782)	1:105:A:LEU:HD12	1:105:A:LEU:HB3	15	0.26
(1,771)	1:156:A:ILE:HD13	1:163:A:SER:HA	9	0.26
(1,766)	1:157:A:ILE:HD11	1:106:A:GLU:HB3	3	0.26
(1,765)	1:157:A:ILE:HD13	1:157:A:ILE:HB	3	0.26
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG22	5	0.26
(1,741)	1:156:A:ILE:HD11	1:156:A:ILE:HG22	1	0.26
(1,741)	1:156:A:ILE:HD11	1:156:A:ILE:HG22	2	0.26
(1,741)	1:156:A:ILE:HD11	1:156:A:ILE:HG22	10	0.26
(1,731)	1:153:A:ILE:HG22	1:153:A:ILE:HD13	15	0.26
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	11	0.26
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	17	0.26
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	20	0.26
(1,700)	1:119:A:VAL:HB	1:170:A:ILE:HG12	17	0.26
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	9	0.26
(1,692)	1:115:A:ALA:HB1	1:111:A:VAL:HG22	9	0.26
(1,685)	1:116:A:ALA:HB2	1:140:A:VAL:HG11	3	0.26
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	1	0.26
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	3	0.26
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	7	0.26
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	11	0.26
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	13	0.26
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	15	0.26
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	18	0.26
(1,671)	1:116:A:ALA:HB3	1:140:A:VAL:HG23	17	0.26
(1,644)	1:102:A:GLU:HB2	1:102:A:GLU:HA	14	0.26
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG23	9	0.26
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG23	10	0.26
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG22	12	0.26
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG23	13	0.26
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG23	20	0.26
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD11	4	0.26
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD12	6	0.26
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG21	6	0.26
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG22	8	0.26
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG22	18	0.26
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG22	16	0.26
(1,520)	1:127:A:VAL:HG12	1:137:A:GLU:HA	9	0.26
(1,520)	1:127:A:VAL:HG11	1:137:A:GLU:HA	11	0.26
(1,516)	1:122:A:LYS:H	1:122:A:LYS:HD2	16	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	3	0.26
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	6	0.26
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	13	0.26
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	15	0.26
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	17	0.26
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	2	0.26
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	4	0.26
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	8	0.26
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	9	0.26
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	10	0.26
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	13	0.26
(1,478)	1:65:A:ASP:HA	1:65:A:ASP:HB2	18	0.26
(1,469)	1:14:A:PHE:H	1:14:A:PHE:HB3	14	0.26
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD12	19	0.26
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	2	0.26
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	14	0.26
(1,448)	1:158:A:GLY:HA3	1:156:A:ILE:HG21	1	0.26
(1,440)	1:120:A:ILE:HD13	1:120:A:ILE:HG23	3	0.26
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	5	0.26
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	9	0.26
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	14	0.26
(1,408)	1:120:A:ILE:HG22	1:117:A:GLY:HA2	2	0.26
(1,402)	1:167:A:GLN:HG3	1:156:A:ILE:HD12	3	0.26
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	16	0.26
(1,370)	1:154:A:VAL:HG21	1:119:A:VAL:HG22	7	0.26
(1,370)	1:154:A:VAL:HG22	1:119:A:VAL:HG22	14	0.26
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD12	9	0.26
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB1	2	0.26
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	6	0.26
(1,296)	1:138:A:VAL:HG13	1:138:A:VAL:HG22	12	0.26
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	8	0.26
(1,238)	1:48:A:LEU:HD23	1:83:A:ALA:HB3	1	0.26
(1,229)	1:119:A:VAL:HG12	1:116:A:ALA:HA	1	0.26
(1,229)	1:119:A:VAL:HG11	1:116:A:ALA:HA	15	0.26
(1,228)	1:109:A:ILE:HG22	1:171:A:ARG:HD2	19	0.26
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD21	4	0.26
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD22	6	0.26
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD22	7	0.26
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD22	8	0.26
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD22	14	0.26
(1,209)	1:52:A:ALA:HB1	1:54:A:ALA:HB1	4	0.26
(1,209)	1:52:A:ALA:HB2	1:54:A:ALA:HB2	6	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,183)	1:22:A:GLN:HB2	1:22:A:GLN:HG3	16	0.26
(1,157)	1:94:A:GLU:HA	1:94:A:GLU:HG2	12	0.26
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG13	13	0.26
(1,132)	1:32:A:GLN:HA	1:32:A:GLN:HG2	2	0.26
(1,116)	1:80:A:GLN:HA	1:83:A:ALA:HB1	3	0.26
(1,109)	1:113:A:ALA:HA	1:116:A:ALA:HB3	10	0.26
(1,74)	1:144:A:GLN:HA	1:144:A:GLN:HG2	15	0.26
(1,41)	1:51:A:PHE:HE1	1:86:A:ARG:HD2	6	0.26
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG22	6	0.26
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG21	19	0.26
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	17	0.25
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	17	0.25
(1,2406)	1:179:A:GLN:H	1:180:A:GLN:H	7	0.25
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	1	0.25
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	2	0.25
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	7	0.25
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	8	0.25
(1,2369)	1:28:A:PHE:HA	1:70:A:MET:HA	1	0.25
(1,2365)	1:71:A:VAL:HA	1:58:A:ILE:HA	8	0.25
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	2	0.25
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	10	0.25
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	15	0.25
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	14	0.25
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	11	0.25
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	14	0.25
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG21	1	0.25
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	5	0.25
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	16	0.25
(1,2203)	1:98:A:GLY:H	1:101:A:GLU:HG2	8	0.25
(1,2194)	1:150:A:GLU:H	1:151:A:GLN:HG3	16	0.25
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB2	11	0.25
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB1	20	0.25
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG22	8	0.25
(1,2074)	1:143:A:ASP:H	1:143:A:ASP:HA	5	0.25
(1,2074)	1:143:A:ASP:H	1:143:A:ASP:HA	17	0.25
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB1	6	0.25
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB1	14	0.25
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB1	18	0.25
(1,2026)	1:70:A:MET:H	1:70:A:MET:HG3	16	0.25
(1,2025)	1:90:A:LYS:H	1:90:A:LYS:HG2	4	0.25
(1,2025)	1:90:A:LYS:H	1:90:A:LYS:HG2	9	0.25
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG22	2	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG23	6	0.25
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG22	20	0.25
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG21	19	0.25
(1,1958)	1:95:A:ASN:H	1:91:A:LEU:HB3	11	0.25
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	6	0.25
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	8	0.25
(1,1917)	1:29:A:ILE:H	1:28:A:PHE:HB3	5	0.25
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB3	19	0.25
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	1	0.25
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	10	0.25
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	20	0.25
(1,1797)	1:148:A:GLU:H	1:147:A:ASP:HB2	2	0.25
(1,1797)	1:148:A:GLU:H	1:147:A:ASP:HB2	7	0.25
(1,1793)	1:102:A:GLU:H	1:102:A:GLU:HG2	15	0.25
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	13	0.25
(1,1764)	1:51:A:PHE:H	1:50:A:ARG:HB2	5	0.25
(1,1764)	1:51:A:PHE:H	1:50:A:ARG:HB2	8	0.25
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	11	0.25
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	12	0.25
(1,1737)	1:176:A:GLN:HE21	1:176:A:GLN:HG2	14	0.25
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	14	0.25
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	2	0.25
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	17	0.25
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	12	0.25
(1,1665)	1:101:A:GLU:H	1:101:A:GLU:HA	8	0.25
(1,1664)	1:101:A:GLU:H	1:100:A:LYS:HG2	10	0.25
(1,1657)	1:93:A:GLU:H	1:93:A:GLU:HG2	5	0.25
(1,1641)	1:36:A:ALA:H	1:33:A:ALA:HA	20	0.25
(1,1628)	1:74:A:THR:H	1:56:A:ILE:HA	20	0.25
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	1	0.25
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	6	0.25
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	7	0.25
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	1	0.25
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	12	0.25
(1,1593)	1:58:A:ILE:HD12	1:71:A:VAL:HA	6	0.25
(1,1581)	1:48:A:LEU:HG	1:56:A:ILE:HD13	8	0.25
(1,1578)	1:30:A:PRO:HD2	1:29:A:ILE:HG22	4	0.25
(1,1576)	1:29:A:ILE:HD11	1:33:A:ALA:HB2	5	0.25
(1,1564)	1:92:A:LYS:HD3	1:103:A:VAL:HG12	4	0.25
(1,1544)	1:173:A:ILE:HG21	1:119:A:VAL:HA	11	0.25
(1,1544)	1:173:A:ILE:HG23	1:119:A:VAL:HA	14	0.25
(1,1539)	1:90:A:LYS:HG3	1:91:A:LEU:HD21	5	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG23	10	0.25
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	9	0.25
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	13	0.25
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	14	0.25
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	16	0.25
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	17	0.25
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	19	0.25
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	20	0.25
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	20	0.25
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	19	0.25
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB1	10	0.25
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	2	0.25
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	3	0.25
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	18	0.25
(1,1428)	1:89:A:GLY:H	1:86:A:ARG:HA	19	0.25
(1,1425)	1:56:A:ILE:HD13	1:56:A:ILE:HG12	8	0.25
(1,1425)	1:56:A:ILE:HD13	1:56:A:ILE:HG12	14	0.25
(1,1397)	1:91:A:LEU:HA	1:91:A:LEU:HD21	18	0.25
(1,1396)	1:91:A:LEU:HD23	1:30:A:PRO:HD3	8	0.25
(1,1396)	1:91:A:LEU:HD22	1:30:A:PRO:HD3	18	0.25
(1,1391)	1:29:A:ILE:H	1:29:A:ILE:HG21	20	0.25
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	5	0.25
(1,1366)	1:48:A:LEU:HD23	1:86:A:ARG:HD3	13	0.25
(1,1349)	1:34:A:VAL:HG12	1:58:A:ILE:HG23	10	0.25
(1,1331)	1:149:A:ASN:H	1:149:A:ASN:HB3	5	0.25
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG22	15	0.25
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG23	18	0.25
(1,1298)	1:105:A:LEU:HG	1:30:A:PRO:HD3	4	0.25
(1,1289)	1:31:A:ALA:HB3	1:67:A:LYS:HA	15	0.25
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD13	2	0.25
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD13	4	0.25
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	12	0.25
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	15	0.25
(1,1247)	1:58:A:ILE:HD13	1:58:A:ILE:HG22	12	0.25
(1,1247)	1:58:A:ILE:HD11	1:58:A:ILE:HG21	16	0.25
(1,1242)	1:25:A:VAL:HG13	1:26:A:HIS:HA	2	0.25
(1,1242)	1:25:A:VAL:HG12	1:26:A:HIS:HA	9	0.25
(1,1241)	1:34:A:VAL:HG13	1:37:A:ILE:HB	11	0.25
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	4	0.25
(1,1204)	1:93:A:GLU:HB2	1:93:A:GLU:HG3	1	0.25
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	14	0.25
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD12	18	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	13	0.25
(1,1141)	1:149:A:ASN:HB2	1:149:A:ASN:HA	5	0.25
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	14	0.25
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD13	18	0.25
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	18	0.25
(1,1082)	1:25:A:VAL:H	1:25:A:VAL:HB	10	0.25
(1,1079)	1:27:A:VAL:H	1:27:A:VAL:HB	9	0.25
(1,1079)	1:27:A:VAL:H	1:27:A:VAL:HB	13	0.25
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD11	8	0.25
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD12	20	0.25
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG22	9	0.25
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	12	0.25
(1,1042)	1:96:A:PHE:HD1	1:94:A:GLU:HB3	17	0.25
(1,1031)	1:68:A:VAL:HG13	1:28:A:PHE:HD1	15	0.25
(1,1016)	1:126:A:THR:HG23	1:173:A:ILE:HD12	4	0.25
(1,1012)	1:136:A:ALA:HA	1:162:A:ALA:HB2	13	0.25
(1,999)	1:157:A:ILE:HG22	1:104:A:LYS:HA	17	0.25
(1,998)	1:157:A:ILE:HG23	1:104:A:LYS:HE3	6	0.25
(1,998)	1:157:A:ILE:HG22	1:104:A:LYS:HE3	19	0.25
(1,982)	1:48:A:LEU:HD22	1:48:A:LEU:HB3	12	0.25
(1,981)	1:48:A:LEU:HD21	1:48:A:LEU:HD11	14	0.25
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	1	0.25
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	2	0.25
(1,967)	1:94:A:GLU:HB2	1:96:A:PHE:HD1	14	0.25
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	9	0.25
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	16	0.25
(1,947)	1:63:A:THR:HB	1:62:A:GLU:HG3	16	0.25
(1,945)	1:139:A:VAL:HG13	1:141:A:PRO:HD3	12	0.25
(1,945)	1:139:A:VAL:HG13	1:141:A:PRO:HD3	17	0.25
(1,914)	1:68:A:VAL:HG23	1:28:A:PHE:HE1	3	0.25
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	5	0.25
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	15	0.25
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	18	0.25
(1,908)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	20	0.25
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	15	0.25
(1,901)	1:90:A:LYS:HE2	1:94:A:GLU:HG3	4	0.25
(1,895)	1:170:A:ILE:HD13	1:166:A:ALA:HB2	9	0.25
(1,855)	1:25:A:VAL:HG22	1:25:A:VAL:HB	3	0.25
(1,855)	1:25:A:VAL:HG22	1:25:A:VAL:HB	6	0.25
(1,855)	1:25:A:VAL:HG21	1:25:A:VAL:HB	8	0.25
(1,855)	1:25:A:VAL:HG23	1:25:A:VAL:HB	9	0.25
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG22	2	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG23	4	0.25
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD11	5	0.25
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	10	0.25
(1,774)	1:113:A:ALA:HB3	1:150:A:GLU:HG3	8	0.25
(1,773)	1:167:A:GLN:HG2	1:156:A:ILE:HD13	3	0.25
(1,771)	1:156:A:ILE:HD11	1:163:A:SER:HA	13	0.25
(1,771)	1:156:A:ILE:HD11	1:163:A:SER:HA	17	0.25
(1,759)	1:79:A:ALA:HB3	1:76:A:PRO:HG3	17	0.25
(1,753)	1:107:A:THR:HG23	1:27:A:VAL:HA	2	0.25
(1,742)	1:156:A:ILE:HD11	1:166:A:ALA:HB1	5	0.25
(1,741)	1:156:A:ILE:HD13	1:156:A:ILE:HG22	9	0.25
(1,741)	1:156:A:ILE:HD12	1:156:A:ILE:HG21	11	0.25
(1,741)	1:156:A:ILE:HD11	1:156:A:ILE:HG23	12	0.25
(1,734)	1:153:A:ILE:HD11	1:153:A:ILE:HB	9	0.25
(1,731)	1:153:A:ILE:HG22	1:153:A:ILE:HD13	11	0.25
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	3	0.25
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	8	0.25
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	9	0.25
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	10	0.25
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	13	0.25
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	14	0.25
(1,726)	1:178:A:LYS:HD2	1:178:A:LYS:HE2	19	0.25
(1,724)	1:154:A:VAL:HA	1:154:A:VAL:HB	6	0.25
(1,685)	1:116:A:ALA:HB2	1:140:A:VAL:HG12	1	0.25
(1,684)	1:25:A:VAL:HG12	1:107:A:THR:HG23	5	0.25
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	5	0.25
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	6	0.25
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	12	0.25
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	17	0.25
(1,678)	1:37:A:ILE:HG12	1:90:A:LYS:HG2	10	0.25
(1,671)	1:116:A:ALA:HB1	1:140:A:VAL:HG23	13	0.25
(1,625)	1:177:A:VAL:HB	1:177:A:VAL:HG22	14	0.25
(1,609)	1:34:A:VAL:HA	1:34:A:VAL:HG12	10	0.25
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	3	0.25
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG22	1	0.25
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG23	6	0.25
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG21	16	0.25
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG23	17	0.25
(1,575)	1:36:A:ALA:HA	1:36:A:ALA:HB2	15	0.25
(1,555)	1:95:A:ASN:HA	1:95:A:ASN:HB3	15	0.25
(1,520)	1:127:A:VAL:HG13	1:137:A:GLU:HA	1	0.25
(1,515)	1:122:A:LYS:H	1:122:A:LYS:HD3	19	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,511)	1:131:A:GLN:HE21	1:131:A:GLN:HA	8	0.25
(1,492)	1:103:A:VAL:HG12	1:103:A:VAL:HG23	16	0.25
(1,480)	1:72:A:VAL:H	1:71:A:VAL:HG23	20	0.25
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD12	11	0.25
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	15	0.25
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG12	14	0.25
(1,416)	1:27:A:VAL:HG21	1:27:A:VAL:HG12	6	0.25
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	19	0.25
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	20	0.25
(1,403)	1:130:A:LEU:H	1:130:A:LEU:HB3	9	0.25
(1,403)	1:130:A:LEU:H	1:130:A:LEU:HB3	10	0.25
(1,403)	1:130:A:LEU:H	1:130:A:LEU:HB3	13	0.25
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	15	0.25
(1,370)	1:154:A:VAL:HG21	1:119:A:VAL:HG22	4	0.25
(1,368)	1:130:A:LEU:HD12	1:130:A:LEU:HB3	4	0.25
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD12	5	0.25
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD11	6	0.25
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB3	12	0.25
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB1	20	0.25
(1,319)	1:112:A:PRO:HB3	1:150:A:GLU:HG2	18	0.25
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB1	1	0.25
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB1	7	0.25
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB2	12	0.25
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB1	20	0.25
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	15	0.25
(1,291)	1:152:A:VAL:HG11	1:144:A:GLN:HG2	17	0.25
(1,290)	1:91:A:LEU:HD21	1:91:A:LEU:HB3	17	0.25
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG11	6	0.25
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG13	7	0.25
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	20	0.25
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG23	1	0.25
(1,278)	1:100:A:LYS:HE2	1:100:A:LYS:HG2	12	0.25
(1,243)	1:33:A:ALA:HB2	1:96:A:PHE:HB2	13	0.25
(1,243)	1:33:A:ALA:HB2	1:96:A:PHE:HB2	14	0.25
(1,243)	1:33:A:ALA:HB2	1:96:A:PHE:HB2	18	0.25
(1,243)	1:33:A:ALA:HB2	1:96:A:PHE:HB2	20	0.25
(1,228)	1:109:A:ILE:HG22	1:171:A:ARG:HD2	4	0.25
(1,228)	1:109:A:ILE:HG22	1:171:A:ARG:HD2	12	0.25
(1,215)	1:115:A:ALA:HB3	1:177:A:VAL:HG22	19	0.25
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD22	9	0.25
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD22	19	0.25
(1,209)	1:52:A:ALA:HB1	1:54:A:ALA:HB3	10	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,183)	1:22:A:GLN:HB2	1:22:A:GLN:HG3	4	0.25
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	7	0.25
(1,164)	1:73:A:ILE:HB	1:84:A:GLN:HG2	19	0.25
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG13	7	0.25
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	18	0.25
(1,132)	1:32:A:GLN:HA	1:32:A:GLN:HG2	3	0.25
(1,132)	1:32:A:GLN:HA	1:32:A:GLN:HG2	4	0.25
(1,74)	1:144:A:GLN:HA	1:144:A:GLN:HG2	5	0.25
(1,74)	1:144:A:GLN:HA	1:144:A:GLN:HG2	13	0.25
(1,74)	1:144:A:GLN:HA	1:144:A:GLN:HG2	17	0.25
(1,74)	1:144:A:GLN:HA	1:144:A:GLN:HG2	18	0.25
(1,62)	1:181:A:HIS:HA	1:181:A:HIS:HB2	7	0.25
(1,62)	1:181:A:HIS:HA	1:181:A:HIS:HB2	11	0.25
(1,62)	1:181:A:HIS:HA	1:181:A:HIS:HB2	13	0.25
(1,62)	1:181:A:HIS:HA	1:181:A:HIS:HB2	17	0.25
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD11	1	0.25
(1,2479)	2:1:B:U:H1'	2:2:B:C:H5	9	0.24
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	18	0.24
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	18	0.24
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	4	0.24
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	6	0.24
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	9	0.24
(1,2359)	1:106:A:GLU:HA	1:157:A:ILE:HA	11	0.24
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	12	0.24
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	4	0.24
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	8	0.24
(1,2331)	2:3:B:G:H8	2:3:B:G:H2'	6	0.24
(1,2325)	1:120:A:ILE:HG21	2:3:B:G:H4'	10	0.24
(1,2325)	1:120:A:ILE:HG22	2:3:B:G:H4'	10	0.24
(1,2325)	1:120:A:ILE:HG23	2:3:B:G:H4'	10	0.24
(1,2307)	2:1:B:U:H6	2:2:B:C:H5	16	0.24
(1,2268)	1:128:A:ASN:HD22	1:128:A:ASN:HB3	16	0.24
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG23	13	0.24
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG22	17	0.24
(1,2239)	1:25:A:VAL:H	1:80:A:GLN:HB3	4	0.24
(1,2237)	1:25:A:VAL:H	1:73:A:ILE:HA	8	0.24
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	14	0.24
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	15	0.24
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	18	0.24
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG22	9	0.24
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB1	15	0.24
(1,2136)	1:39:A:GLY:H	1:38:A:ILE:HG23	15	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	16	0.24
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	9	0.24
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB1	8	0.24
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB3	15	0.24
(1,2023)	1:70:A:MET:H	1:70:A:MET:HB2	12	0.24
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG23	3	0.24
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG23	12	0.24
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG23	14	0.24
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG23	13	0.24
(1,1981)	1:176:A:GLN:HE22	1:176:A:GLN:HB3	10	0.24
(1,1958)	1:95:A:ASN:H	1:91:A:LEU:HB3	20	0.24
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	2	0.24
(1,1917)	1:29:A:ILE:H	1:28:A:PHE:HB3	2	0.24
(1,1917)	1:29:A:ILE:H	1:28:A:PHE:HB3	4	0.24
(1,1893)	1:23:A:GLU:H	1:74:A:THR:HG22	20	0.24
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	1	0.24
(1,1864)	1:38:A:ILE:H	1:38:A:ILE:HG13	5	0.24
(1,1858)	1:139:A:VAL:H	1:138:A:VAL:HG11	3	0.24
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	20	0.24
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	8	0.24
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	10	0.24
(1,1839)	1:93:A:GLU:H	1:93:A:GLU:HG3	15	0.24
(1,1821)	1:165:A:MET:H	1:164:A:GLN:HG2	8	0.24
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB3	11	0.24
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	4	0.24
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	11	0.24
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	14	0.24
(1,1797)	1:148:A:GLU:H	1:147:A:ASP:HB2	8	0.24
(1,1797)	1:148:A:GLU:H	1:147:A:ASP:HB2	11	0.24
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	9	0.24
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	10	0.24
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	10	0.24
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	17	0.24
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	19	0.24
(1,1665)	1:101:A:GLU:H	1:101:A:GLU:HA	2	0.24
(1,1665)	1:101:A:GLU:H	1:101:A:GLU:HA	6	0.24
(1,1657)	1:93:A:GLU:H	1:93:A:GLU:HG2	4	0.24
(1,1645)	1:156:A:ILE:H	1:156:A:ILE:HG12	16	0.24
(1,1596)	1:72:A:VAL:HG13	1:72:A:VAL:HG22	20	0.24
(1,1592)	1:142:A:ARG:HD2	1:142:A:ARG:HB2	8	0.24
(1,1575)	1:168:A:ARG:HA	1:171:A:ARG:HG3	6	0.24
(1,1568)	1:37:A:ILE:HG12	1:29:A:ILE:HD13	5	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1544)	1:173:A:ILE:HG22	1:119:A:VAL:HA	4	0.24
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG21	18	0.24
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	6	0.24
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	10	0.24
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	14	0.24
(1,1505)	1:90:A:LYS:HB2	1:87:A:ILE:HA	17	0.24
(1,1461)	1:151:A:GLN:H	1:113:A:ALA:HB2	4	0.24
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	8	0.24
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	17	0.24
(1,1428)	1:89:A:GLY:H	1:86:A:ARG:HA	3	0.24
(1,1425)	1:56:A:ILE:HD11	1:56:A:ILE:HG12	11	0.24
(1,1425)	1:56:A:ILE:HD13	1:56:A:ILE:HG12	13	0.24
(1,1393)	1:90:A:LYS:HG2	1:90:A:LYS:HD2	10	0.24
(1,1383)	1:130:A:LEU:H	1:130:A:LEU:HD11	2	0.24
(1,1371)	1:68:A:VAL:HG23	1:69:A:ARG:H	3	0.24
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	15	0.24
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	18	0.24
(1,1308)	1:154:A:VAL:HG11	1:153:A:ILE:HA	16	0.24
(1,1302)	1:42:A:GLY:HA3	1:38:A:ILE:HG22	14	0.24
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD11	3	0.24
(1,1284)	1:29:A:ILE:HD11	1:30:A:PRO:HD2	9	0.24
(1,1277)	1:169:A:LYS:HB2	1:130:A:LEU:HD13	14	0.24
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	14	0.24
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	20	0.24
(1,1247)	1:58:A:ILE:HD12	1:58:A:ILE:HG22	13	0.24
(1,1244)	1:91:A:LEU:HD11	1:91:A:LEU:HB2	11	0.24
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	1	0.24
(1,1178)	1:30:A:PRO:HD2	1:29:A:ILE:HA	2	0.24
(1,1161)	1:51:A:PHE:HA	1:51:A:PHE:HB2	18	0.24
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD13	16	0.24
(1,1133)	1:104:A:LYS:H	1:104:A:LYS:HB2	13	0.24
(1,1133)	1:104:A:LYS:H	1:104:A:LYS:HB2	19	0.24
(1,1121)	1:87:A:ILE:H	1:86:A:ARG:HB2	10	0.24
(1,1117)	1:95:A:ASN:H	1:95:A:ASN:HB2	19	0.24
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD13	15	0.24
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD13	11	0.24
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD12	12	0.24
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD13	14	0.24
(1,1058)	1:26:A:HIS:HD2	1:72:A:VAL:HG11	2	0.24
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	10	0.24
(1,1016)	1:126:A:THR:HG21	1:173:A:ILE:HD12	8	0.24
(1,1014)	1:166:A:ALA:HB2	1:134:A:THR:HG23	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1014)	1:166:A:ALA:HB2	1:134:A:THR:HG23	4	0.24
(1,1012)	1:136:A:ALA:HA	1:162:A:ALA:HB1	11	0.24
(1,983)	1:48:A:LEU:HD21	1:83:A:ALA:HA	11	0.24
(1,982)	1:48:A:LEU:HD23	1:48:A:LEU:HB3	18	0.24
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	4	0.24
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	9	0.24
(1,945)	1:139:A:VAL:HG12	1:141:A:PRO:HD3	5	0.24
(1,921)	1:105:A:LEU:HD13	1:97:A:PHE:HE1	17	0.24
(1,910)	1:139:A:VAL:HG22	1:139:A:VAL:HB	4	0.24
(1,910)	1:139:A:VAL:HG22	1:139:A:VAL:HB	13	0.24
(1,900)	1:90:A:LYS:HE2	1:36:A:ALA:HB3	17	0.24
(1,894)	1:54:A:ALA:HB1	1:56:A:ILE:HD11	3	0.24
(1,856)	1:56:A:ILE:HD13	1:49:A:SER:HA	10	0.24
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG22	9	0.24
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG21	16	0.24
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG21	10	0.24
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	14	0.24
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	17	0.24
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	19	0.24
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	20	0.24
(1,771)	1:156:A:ILE:HD11	1:163:A:SER:HA	19	0.24
(1,756)	1:92:A:LYS:HG2	1:103:A:VAL:HG21	8	0.24
(1,753)	1:107:A:THR:HG22	1:27:A:VAL:HA	1	0.24
(1,748)	1:62:A:GLU:HG2	1:63:A:THR:HG23	16	0.24
(1,742)	1:156:A:ILE:HD13	1:166:A:ALA:HB3	18	0.24
(1,741)	1:156:A:ILE:HD12	1:156:A:ILE:HG22	14	0.24
(1,741)	1:156:A:ILE:HD13	1:156:A:ILE:HG22	15	0.24
(1,741)	1:156:A:ILE:HD12	1:156:A:ILE:HG23	16	0.24
(1,741)	1:156:A:ILE:HD11	1:156:A:ILE:HG21	17	0.24
(1,731)	1:153:A:ILE:HG22	1:153:A:ILE:HD12	20	0.24
(1,728)	1:88:A:TYR:HA	1:103:A:VAL:HG13	10	0.24
(1,724)	1:154:A:VAL:HA	1:154:A:VAL:HB	8	0.24
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	17	0.24
(1,709)	1:86:A:ARG:HB2	1:48:A:LEU:HD12	2	0.24
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	8	0.24
(1,673)	1:104:A:LYS:HG2	1:104:A:LYS:HE2	16	0.24
(1,671)	1:116:A:ALA:HB2	1:140:A:VAL:HG21	18	0.24
(1,671)	1:116:A:ALA:HB3	1:140:A:VAL:HG21	20	0.24
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	4	0.24
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	5	0.24
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	8	0.24
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	16	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,622)	1:148:A:GLU:HG3	1:149:A:ASN:HA	11	0.24
(1,622)	1:148:A:GLU:HG3	1:149:A:ASN:HA	15	0.24
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	6	0.24
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG22	19	0.24
(1,575)	1:36:A:ALA:HA	1:36:A:ALA:HB1	1	0.24
(1,572)	1:90:A:LYS:HA	1:90:A:LYS:HG2	2	0.24
(1,565)	1:92:A:LYS:HA	1:92:A:LYS:HG2	13	0.24
(1,555)	1:95:A:ASN:HA	1:95:A:ASN:HB3	1	0.24
(1,555)	1:95:A:ASN:HA	1:95:A:ASN:HB3	4	0.24
(1,555)	1:95:A:ASN:HA	1:95:A:ASN:HB3	5	0.24
(1,555)	1:95:A:ASN:HA	1:95:A:ASN:HB3	8	0.24
(1,555)	1:95:A:ASN:HA	1:95:A:ASN:HB3	9	0.24
(1,555)	1:95:A:ASN:HA	1:95:A:ASN:HB3	10	0.24
(1,555)	1:95:A:ASN:HA	1:95:A:ASN:HB3	11	0.24
(1,555)	1:95:A:ASN:HA	1:95:A:ASN:HB3	12	0.24
(1,555)	1:95:A:ASN:HA	1:95:A:ASN:HB3	14	0.24
(1,555)	1:95:A:ASN:HA	1:95:A:ASN:HB3	16	0.24
(1,555)	1:95:A:ASN:HA	1:95:A:ASN:HB3	17	0.24
(1,555)	1:95:A:ASN:HA	1:95:A:ASN:HB3	18	0.24
(1,555)	1:95:A:ASN:HA	1:95:A:ASN:HB3	20	0.24
(1,550)	1:58:A:ILE:HA	1:58:A:ILE:HD13	18	0.24
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG22	17	0.24
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG21	19	0.24
(1,546)	1:55:A:SER:HA	1:55:A:SER:HB2	11	0.24
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG23	12	0.24
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG21	13	0.24
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG21	17	0.24
(1,520)	1:127:A:VAL:HG12	1:137:A:GLU:HA	17	0.24
(1,459)	1:178:A:LYS:H	1:175:A:ALA:HA	20	0.24
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG12	13	0.24
(1,446)	1:68:A:VAL:H	1:68:A:VAL:HG11	16	0.24
(1,411)	1:112:A:PRO:HB3	1:112:A:PRO:HG2	13	0.24
(1,395)	1:87:A:ILE:H	1:84:A:GLN:HB2	20	0.24
(1,393)	1:79:A:ALA:H	1:78:A:GLU:HG2	3	0.24
(1,378)	1:57:A:LYS:H	1:57:A:LYS:HG3	19	0.24
(1,370)	1:154:A:VAL:HG21	1:119:A:VAL:HG22	2	0.24
(1,370)	1:154:A:VAL:HG22	1:119:A:VAL:HG22	5	0.24
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB3	14	0.24
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB3	16	0.24
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB3	17	0.24
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB3	10	0.24
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB1	18	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	8	0.24
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	10	0.24
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	13	0.24
(1,296)	1:138:A:VAL:HG11	1:138:A:VAL:HG23	2	0.24
(1,291)	1:152:A:VAL:HG13	1:144:A:GLN:HG2	5	0.24
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG12	5	0.24
(1,281)	1:170:A:ILE:HA	1:170:A:ILE:HG21	9	0.24
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	3	0.24
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	14	0.24
(1,238)	1:48:A:LEU:HD23	1:83:A:ALA:HB3	5	0.24
(1,232)	1:111:A:VAL:HG12	1:111:A:VAL:HG22	6	0.24
(1,229)	1:119:A:VAL:HG12	1:116:A:ALA:HA	18	0.24
(1,215)	1:115:A:ALA:HB3	1:177:A:VAL:HG21	1	0.24
(1,183)	1:22:A:GLN:HB2	1:22:A:GLN:HG3	20	0.24
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	15	0.24
(1,164)	1:73:A:ILE:HB	1:84:A:GLN:HG2	20	0.24
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	5	0.24
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	15	0.24
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	19	0.24
(1,125)	1:112:A:PRO:HD3	1:174:A:LEU:HD22	11	0.24
(1,74)	1:144:A:GLN:HA	1:144:A:GLN:HG2	9	0.24
(1,74)	1:144:A:GLN:HA	1:144:A:GLN:HG2	14	0.24
(1,62)	1:181:A:HIS:HA	1:181:A:HIS:HB2	18	0.24
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	16	0.24
(1,41)	1:51:A:PHE:HE1	1:86:A:ARG:HD2	7	0.24
(1,40)	1:95:A:ASN:HD21	1:95:A:ASN:HB3	5	0.24
(1,40)	1:95:A:ASN:HD21	1:95:A:ASN:HB3	6	0.24
(1,39)	1:119:A:VAL:H	1:119:A:VAL:HG13	12	0.24
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD13	11	0.24
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG21	1	0.24
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	3	0.23
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	20	0.23
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	14	0.23
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	13	0.23
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	18	0.23
(1,2369)	1:28:A:PHE:HA	1:70:A:MET:HA	7	0.23
(1,2365)	1:71:A:VAL:HA	1:58:A:ILE:HA	6	0.23
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	9	0.23
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	18	0.23
(1,2341)	1:118:A:ARG:HB2	2:2:B:C:H5	18	0.23
(1,2341)	1:118:A:ARG:HB3	2:2:B:C:H5	18	0.23
(1,2331)	2:3:B:G:H8	2:3:B:G:H2'	2	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	3	0.23
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	6	0.23
(1,2268)	1:128:A:ASN:HD22	1:128:A:ASN:HB3	1	0.23
(1,2268)	1:128:A:ASN:HD22	1:128:A:ASN:HB3	2	0.23
(1,2268)	1:128:A:ASN:HD22	1:128:A:ASN:HB3	3	0.23
(1,2268)	1:128:A:ASN:HD22	1:128:A:ASN:HB3	5	0.23
(1,2268)	1:128:A:ASN:HD22	1:128:A:ASN:HB3	8	0.23
(1,2268)	1:128:A:ASN:HD22	1:128:A:ASN:HB3	15	0.23
(1,2268)	1:128:A:ASN:HD22	1:128:A:ASN:HB3	18	0.23
(1,2247)	1:105:A:LEU:H	1:157:A:ILE:HG22	12	0.23
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	11	0.23
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	1	0.23
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	3	0.23
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	6	0.23
(1,2048)	1:131:A:GLN:H	1:131:A:GLN:HG3	16	0.23
(1,2025)	1:90:A:LYS:H	1:90:A:LYS:HG2	6	0.23
(1,2023)	1:70:A:MET:H	1:70:A:MET:HB2	13	0.23
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG21	13	0.23
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG23	17	0.23
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG21	18	0.23
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG13	7	0.23
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG21	2	0.23
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD11	2	0.23
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD12	5	0.23
(1,1939)	1:89:A:GLY:H	1:86:A:ARG:H	10	0.23
(1,1917)	1:29:A:ILE:H	1:28:A:PHE:HB3	10	0.23
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	2	0.23
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	3	0.23
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	8	0.23
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	9	0.23
(1,1854)	1:171:A:ARG:H	1:171:A:ARG:HG3	9	0.23
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	2	0.23
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	2	0.23
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	4	0.23
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	7	0.23
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	15	0.23
(1,1821)	1:165:A:MET:H	1:164:A:GLN:HG2	19	0.23
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	7	0.23
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	9	0.23
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	19	0.23
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	20	0.23
(1,1782)	1:111:A:VAL:H	1:110:A:ARG:HB2	18	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG23	12	0.23
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG22	15	0.23
(1,1764)	1:51:A:PHE:H	1:50:A:ARG:HB2	9	0.23
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	13	0.23
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	3	0.23
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	4	0.23
(1,1694)	1:97:A:PHE:H	1:96:A:PHE:HB2	20	0.23
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	1	0.23
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	2	0.23
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	4	0.23
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	9	0.23
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	15	0.23
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	18	0.23
(1,1665)	1:101:A:GLU:H	1:101:A:GLU:HA	3	0.23
(1,1665)	1:101:A:GLU:H	1:101:A:GLU:HA	7	0.23
(1,1665)	1:101:A:GLU:H	1:101:A:GLU:HA	9	0.23
(1,1665)	1:101:A:GLU:H	1:101:A:GLU:HA	16	0.23
(1,1665)	1:101:A:GLU:H	1:101:A:GLU:HA	19	0.23
(1,1664)	1:101:A:GLU:H	1:100:A:LYS:HG2	14	0.23
(1,1631)	1:138:A:VAL:H	1:138:A:VAL:HG11	4	0.23
(1,1631)	1:138:A:VAL:H	1:138:A:VAL:HG12	5	0.23
(1,1631)	1:138:A:VAL:H	1:138:A:VAL:HG11	11	0.23
(1,1628)	1:74:A:THR:H	1:56:A:ILE:HA	12	0.23
(1,1628)	1:74:A:THR:H	1:56:A:ILE:HA	13	0.23
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD11	5	0.23
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	18	0.23
(1,1599)	1:127:A:VAL:HA	1:138:A:VAL:HB	6	0.23
(1,1593)	1:58:A:ILE:HD12	1:71:A:VAL:HA	9	0.23
(1,1592)	1:142:A:ARG:HD2	1:142:A:ARG:HB2	7	0.23
(1,1592)	1:142:A:ARG:HD2	1:142:A:ARG:HB2	17	0.23
(1,1578)	1:30:A:PRO:HD2	1:29:A:ILE:HG22	1	0.23
(1,1578)	1:30:A:PRO:HD2	1:29:A:ILE:HG21	5	0.23
(1,1578)	1:30:A:PRO:HD2	1:29:A:ILE:HG23	9	0.23
(1,1576)	1:29:A:ILE:HD12	1:33:A:ALA:HB3	6	0.23
(1,1568)	1:37:A:ILE:HG12	1:29:A:ILE:HD12	2	0.23
(1,1544)	1:173:A:ILE:HG23	1:119:A:VAL:HA	6	0.23
(1,1544)	1:173:A:ILE:HG22	1:119:A:VAL:HA	7	0.23
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG23	8	0.23
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG21	17	0.23
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	12	0.23
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	1	0.23
(1,1525)	1:150:A:GLU:HB3	1:150:A:GLU:HA	3	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	16	0.23
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	17	0.23
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	2	0.23
(1,1444)	1:106:A:GLU:H	1:105:A:LEU:HB2	3	0.23
(1,1437)	1:159:A:HIS:HB2	1:159:A:HIS:HD2	13	0.23
(1,1428)	1:89:A:GLY:H	1:86:A:ARG:HA	20	0.23
(1,1407)	1:33:A:ALA:HB2	1:30:A:PRO:HB3	18	0.23
(1,1371)	1:68:A:VAL:HG22	1:69:A:ARG:H	8	0.23
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG3	4	0.23
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG3	18	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	1	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	2	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	3	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	4	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	5	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	6	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	7	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	8	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	9	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	10	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	11	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	12	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	13	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	14	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	15	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	16	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	17	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	18	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	19	0.23
(1,1311)	1:19:A:PRO:HD3	1:19:A:PRO:HD2	20	0.23
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD12	6	0.23
(1,1277)	1:169:A:LYS:HB2	1:130:A:LEU:HD11	19	0.23
(1,1247)	1:58:A:ILE:HD13	1:58:A:ILE:HG21	14	0.23
(1,1244)	1:91:A:LEU:HD11	1:91:A:LEU:HB2	17	0.23
(1,1181)	1:173:A:ILE:HD12	1:119:A:VAL:HA	7	0.23
(1,1178)	1:30:A:PRO:HD2	1:29:A:ILE:HA	9	0.23
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD12	10	0.23
(1,1111)	1:169:A:LYS:H	1:169:A:LYS:HG2	8	0.23
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD12	17	0.23
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD11	20	0.23
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	1	0.23
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	5	0.23
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	7	0.23
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	8	0.23
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD12	7	0.23
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG23	6	0.23
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG23	10	0.23
(1,1058)	1:26:A:HIS:HD2	1:72:A:VAL:HG13	9	0.23
(1,1049)	1:97:A:PHE:HD1	1:91:A:LEU:HG	6	0.23
(1,1038)	1:88:A:TYR:HD1	1:105:A:LEU:HD13	5	0.23
(1,1006)	1:83:A:ALA:HB3	1:73:A:ILE:HB	9	0.23
(1,983)	1:48:A:LEU:HD23	1:83:A:ALA:HA	8	0.23
(1,982)	1:48:A:LEU:HD21	1:48:A:LEU:HB3	15	0.23
(1,982)	1:48:A:LEU:HD21	1:48:A:LEU:HB3	17	0.23
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	3	0.23
(1,980)	1:32:A:GLN:HG3	1:96:A:PHE:HD1	6	0.23
(1,970)	1:33:A:ALA:HA	1:96:A:PHE:HE2	1	0.23
(1,969)	1:33:A:ALA:HA	1:96:A:PHE:HD2	5	0.23
(1,947)	1:63:A:THR:HB	1:62:A:GLU:HG2	18	0.23
(1,934)	1:111:A:VAL:HG12	1:111:A:VAL:HB	3	0.23
(1,910)	1:139:A:VAL:HG21	1:139:A:VAL:HB	2	0.23
(1,910)	1:139:A:VAL:HG21	1:139:A:VAL:HB	3	0.23
(1,910)	1:139:A:VAL:HG22	1:139:A:VAL:HB	6	0.23
(1,910)	1:139:A:VAL:HG23	1:139:A:VAL:HB	7	0.23
(1,910)	1:139:A:VAL:HG22	1:139:A:VAL:HB	8	0.23
(1,910)	1:139:A:VAL:HG22	1:139:A:VAL:HB	9	0.23
(1,910)	1:139:A:VAL:HG21	1:139:A:VAL:HB	10	0.23
(1,910)	1:139:A:VAL:HG23	1:139:A:VAL:HB	11	0.23
(1,910)	1:139:A:VAL:HG22	1:139:A:VAL:HB	14	0.23
(1,910)	1:139:A:VAL:HG23	1:139:A:VAL:HB	15	0.23
(1,910)	1:139:A:VAL:HG23	1:139:A:VAL:HB	17	0.23
(1,910)	1:139:A:VAL:HG23	1:139:A:VAL:HB	19	0.23
(1,910)	1:139:A:VAL:HG22	1:139:A:VAL:HB	20	0.23
(1,899)	1:72:A:VAL:HG11	1:72:A:VAL:HB	16	0.23
(1,875)	1:105:A:LEU:HD13	1:91:A:LEU:HG	16	0.23
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	8	0.23
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	9	0.23
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	3	0.23
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG23	11	0.23
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	11	0.23
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	15	0.23
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG21	18	0.23
(1,837)	1:141:A:PRO:HD2	1:140:A:VAL:HA	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG22	3	0.23
(1,820)	1:119:A:VAL:HG11	1:119:A:VAL:HG22	3	0.23
(1,808)	1:71:A:VAL:HG22	1:71:A:VAL:HB	3	0.23
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	4	0.23
(1,782)	1:105:A:LEU:HD12	1:105:A:LEU:HB3	17	0.23
(1,774)	1:113:A:ALA:HB3	1:150:A:GLU:HG3	9	0.23
(1,771)	1:156:A:ILE:HD13	1:163:A:SER:HA	8	0.23
(1,759)	1:79:A:ALA:HB3	1:76:A:PRO:HG3	8	0.23
(1,742)	1:156:A:ILE:HD13	1:166:A:ALA:HB3	8	0.23
(1,741)	1:156:A:ILE:HD11	1:156:A:ILE:HG21	7	0.23
(1,741)	1:156:A:ILE:HD13	1:156:A:ILE:HG22	8	0.23
(1,741)	1:156:A:ILE:HD11	1:156:A:ILE:HG21	20	0.23
(1,731)	1:153:A:ILE:HG22	1:153:A:ILE:HD11	13	0.23
(1,731)	1:153:A:ILE:HG23	1:153:A:ILE:HD13	14	0.23
(1,731)	1:153:A:ILE:HG21	1:153:A:ILE:HD13	18	0.23
(1,692)	1:115:A:ALA:HB2	1:111:A:VAL:HG22	7	0.23
(1,685)	1:116:A:ALA:HB2	1:140:A:VAL:HG12	14	0.23
(1,680)	1:155:A:LYS:HG2	1:155:A:LYS:HD2	19	0.23
(1,653)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	6	0.23
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD11	14	0.23
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD11	17	0.23
(1,632)	1:179:A:GLN:HB2	1:179:A:GLN:HA	7	0.23
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG12	9	0.23
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG12	10	0.23
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG13	14	0.23
(1,622)	1:148:A:GLU:HG3	1:149:A:ASN:HA	18	0.23
(1,609)	1:34:A:VAL:HA	1:34:A:VAL:HG12	18	0.23
(1,608)	1:174:A:LEU:HD11	1:112:A:PRO:HD3	17	0.23
(1,598)	1:150:A:GLU:HA	1:150:A:GLU:HG2	1	0.23
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG21	7	0.23
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG21	15	0.23
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG23	18	0.23
(1,585)	1:22:A:GLN:HA	1:22:A:GLN:HG2	16	0.23
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG22	4	0.23
(1,575)	1:36:A:ALA:HA	1:36:A:ALA:HB2	16	0.23
(1,572)	1:90:A:LYS:HA	1:90:A:LYS:HG2	5	0.23
(1,566)	1:133:A:LEU:HA	1:133:A:LEU:HD11	8	0.23
(1,565)	1:92:A:LYS:HA	1:92:A:LYS:HG2	11	0.23
(1,565)	1:92:A:LYS:HA	1:92:A:LYS:HG2	14	0.23
(1,565)	1:92:A:LYS:HA	1:92:A:LYS:HG2	18	0.23
(1,555)	1:95:A:ASN:HA	1:95:A:ASN:HB3	6	0.23
(1,554)	1:95:A:ASN:HA	1:95:A:ASN:HB2	19	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,546)	1:55:A:SER:HA	1:55:A:SER:HB2	18	0.23
(1,520)	1:127:A:VAL:HG12	1:137:A:GLU:HA	15	0.23
(1,515)	1:122:A:LYS:H	1:122:A:LYS:HD3	14	0.23
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	20	0.23
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	9	0.23
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	7	0.23
(1,426)	1:87:A:ILE:HA	1:87:A:ILE:HG23	14	0.23
(1,370)	1:154:A:VAL:HG23	1:119:A:VAL:HG23	1	0.23
(1,370)	1:154:A:VAL:HG23	1:119:A:VAL:HG23	16	0.23
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD11	11	0.23
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB2	13	0.23
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB3	15	0.23
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB2	18	0.23
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB3	9	0.23
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB1	11	0.23
(1,296)	1:138:A:VAL:HG11	1:138:A:VAL:HG23	8	0.23
(1,291)	1:152:A:VAL:HG11	1:144:A:GLN:HG2	14	0.23
(1,291)	1:152:A:VAL:HG13	1:144:A:GLN:HG2	15	0.23
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG13	3	0.23
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	19	0.23
(1,244)	1:29:A:ILE:HD13	1:29:A:ILE:HG22	15	0.23
(1,243)	1:33:A:ALA:HB2	1:96:A:PHE:HB2	10	0.23
(1,232)	1:111:A:VAL:HG13	1:111:A:VAL:HG23	4	0.23
(1,228)	1:109:A:ILE:HG21	1:171:A:ARG:HD2	16	0.23
(1,215)	1:115:A:ALA:HB2	1:177:A:VAL:HG21	9	0.23
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD21	2	0.23
(1,209)	1:52:A:ALA:HB1	1:54:A:ALA:HB3	8	0.23
(1,183)	1:22:A:GLN:HB2	1:22:A:GLN:HG3	19	0.23
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	11	0.23
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	12	0.23
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	19	0.23
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	12	0.23
(1,132)	1:32:A:GLN:HA	1:32:A:GLN:HG2	6	0.23
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	3	0.23
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	7	0.23
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	11	0.23
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	12	0.23
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	15	0.23
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	16	0.23
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	17	0.23
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	20	0.23
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG22	8	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2479)	2:1:B:U:H1'	2:2:B:C:H5	15	0.22
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	1	0.22
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	2	0.22
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	9	0.22
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	18	0.22
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	15	0.22
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	19	0.22
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	14	0.22
(1,2352)	1:139:A:VAL:HA	2:5:B:6MZ:H2	12	0.22
(1,2341)	1:118:A:ARG:HB2	2:2:B:C:H5	19	0.22
(1,2341)	1:118:A:ARG:HB3	2:2:B:C:H5	19	0.22
(1,2331)	2:3:B:G:H8	2:3:B:G:H2'	16	0.22
(1,2248)	1:149:A:ASN:HD22	1:149:A:ASN:H	6	0.22
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	5	0.22
(1,2239)	1:25:A:VAL:H	1:80:A:GLN:HB3	10	0.22
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	6	0.22
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG22	11	0.22
(1,2222)	1:102:A:GLU:H	1:101:A:GLU:H	14	0.22
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG11	10	0.22
(1,2194)	1:150:A:GLU:H	1:151:A:GLN:HG3	20	0.22
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB3	17	0.22
(1,2132)	1:98:A:GLY:H	1:97:A:PHE:HA	5	0.22
(1,2132)	1:98:A:GLY:H	1:97:A:PHE:HA	6	0.22
(1,2132)	1:98:A:GLY:H	1:97:A:PHE:HA	7	0.22
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	5	0.22
(1,2070)	1:149:A:ASN:H	1:149:A:ASN:HB2	2	0.22
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	6	0.22
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB3	7	0.22
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG22	1	0.22
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG13	9	0.22
(1,1922)	1:149:A:ASN:HD22	1:149:A:ASN:HA	12	0.22
(1,1922)	1:149:A:ASN:HD22	1:149:A:ASN:HA	13	0.22
(1,1922)	1:149:A:ASN:HD22	1:149:A:ASN:HA	19	0.22
(1,1920)	1:55:A:SER:H	1:56:A:ILE:H	2	0.22
(1,1917)	1:29:A:ILE:H	1:28:A:PHE:HB3	9	0.22
(1,1899)	1:83:A:ALA:H	1:73:A:ILE:HD12	9	0.22
(1,1894)	1:173:A:ILE:H	1:176:A:GLN:HG2	10	0.22
(1,1887)	1:103:A:VAL:H	1:97:A:PHE:HD1	12	0.22
(1,1885)	1:155:A:LYS:H	1:139:A:VAL:HG13	13	0.22
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	7	0.22
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	12	0.22
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	5	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1858)	1:139:A:VAL:H	1:138:A:VAL:HG13	17	0.22
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	7	0.22
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	8	0.22
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	10	0.22
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	20	0.22
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	7	0.22
(1,1831)	1:93:A:GLU:H	1:90:A:LYS:HD2	8	0.22
(1,1816)	1:68:A:VAL:H	1:66:A:SER:HB3	6	0.22
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	3	0.22
(1,1797)	1:148:A:GLU:H	1:147:A:ASP:HB2	1	0.22
(1,1797)	1:148:A:GLU:H	1:147:A:ASP:HB2	3	0.22
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	12	0.22
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	1	0.22
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	4	0.22
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	17	0.22
(1,1742)	1:98:A:GLY:H	1:99:A:PRO:HD2	16	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	1	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	2	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	3	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	4	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	5	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	6	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	7	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	8	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	9	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	10	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	11	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	12	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	13	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	14	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	15	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	16	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	17	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	18	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	19	0.22
(1,1735)	1:176:A:GLN:HE22	1:176:A:GLN:HE21	20	0.22
(1,1729)	1:95:A:ASN:H	1:94:A:GLU:HA	12	0.22
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	6	0.22
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	9	0.22
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	3	0.22
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	6	0.22
(1,1665)	1:101:A:GLU:H	1:101:A:GLU:HA	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1665)	1:101:A:GLU:H	1:101:A:GLU:HA	5	0.22
(1,1665)	1:101:A:GLU:H	1:101:A:GLU:HA	13	0.22
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	19	0.22
(1,1599)	1:127:A:VAL:HA	1:138:A:VAL:HB	14	0.22
(1,1596)	1:72:A:VAL:HG12	1:72:A:VAL:HG23	11	0.22
(1,1596)	1:72:A:VAL:HG12	1:72:A:VAL:HG22	12	0.22
(1,1596)	1:72:A:VAL:HG11	1:72:A:VAL:HG22	13	0.22
(1,1596)	1:72:A:VAL:HG13	1:72:A:VAL:HG23	19	0.22
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB2	2	0.22
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG12	8	0.22
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG12	9	0.22
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG21	2	0.22
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG21	15	0.22
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	11	0.22
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	12	0.22
(1,1514)	1:139:A:VAL:H	1:139:A:VAL:HG21	2	0.22
(1,1487)	1:38:A:ILE:HD11	1:58:A:ILE:H	3	0.22
(1,1487)	1:38:A:ILE:HD13	1:58:A:ILE:H	9	0.22
(1,1437)	1:159:A:HIS:HB2	1:159:A:HIS:HD2	18	0.22
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	6	0.22
(1,1428)	1:89:A:GLY:H	1:86:A:ARG:HA	1	0.22
(1,1425)	1:56:A:ILE:HD13	1:56:A:ILE:HG12	7	0.22
(1,1407)	1:33:A:ALA:HB1	1:30:A:PRO:HB3	11	0.22
(1,1407)	1:33:A:ALA:HB2	1:30:A:PRO:HB3	13	0.22
(1,1377)	1:73:A:ILE:HG22	1:73:A:ILE:HA	18	0.22
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG3	10	0.22
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG3	12	0.22
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG3	15	0.22
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG3	19	0.22
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	4	0.22
(1,1300)	1:105:A:LEU:HD12	1:29:A:ILE:HG22	4	0.22
(1,1298)	1:105:A:LEU:HG	1:30:A:PRO:HD3	9	0.22
(1,1294)	1:57:A:LYS:HB3	1:72:A:VAL:HG22	16	0.22
(1,1282)	1:110:A:ARG:HA	1:153:A:ILE:HG22	18	0.22
(1,1258)	1:147:A:ASP:H	1:147:A:ASP:HB3	20	0.22
(1,1244)	1:91:A:LEU:HD13	1:91:A:LEU:HB2	13	0.22
(1,1244)	1:91:A:LEU:HD13	1:91:A:LEU:HB2	19	0.22
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	11	0.22
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	14	0.22
(1,1178)	1:30:A:PRO:HD2	1:29:A:ILE:HA	7	0.22
(1,1163)	1:126:A:THR:HB	1:126:A:THR:HA	4	0.22
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD12	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD13	20	0.22
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	12	0.22
(1,1135)	1:80:A:GLN:HE22	1:25:A:VAL:HG23	20	0.22
(1,1133)	1:104:A:LYS:H	1:104:A:LYS:HB2	14	0.22
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	15	0.22
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD11	9	0.22
(1,1102)	1:93:A:GLU:H	1:93:A:GLU:HG3	12	0.22
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	3	0.22
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD12	4	0.22
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD11	18	0.22
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG21	4	0.22
(1,1069)	1:88:A:TYR:HE1	1:105:A:LEU:HD21	20	0.22
(1,1064)	1:97:A:PHE:HE1	1:91:A:LEU:HD13	13	0.22
(1,1058)	1:26:A:HIS:HD2	1:72:A:VAL:HG13	18	0.22
(1,1057)	1:17:A:PHE:HD1	1:17:A:PHE:HA	20	0.22
(1,1023)	1:161:A:TYR:HD1	1:161:A:TYR:HA	16	0.22
(1,1014)	1:166:A:ALA:HB1	1:134:A:THR:HG21	11	0.22
(1,999)	1:157:A:ILE:HG21	1:104:A:LYS:HA	2	0.22
(1,999)	1:157:A:ILE:HG21	1:104:A:LYS:HA	19	0.22
(1,998)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	10	0.22
(1,993)	1:18:A:MET:HA	1:19:A:PRO:HD2	9	0.22
(1,985)	1:47:A:GLN:HB3	1:47:A:GLN:HG2	7	0.22
(1,983)	1:48:A:LEU:HD22	1:83:A:ALA:HA	4	0.22
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	4	0.22
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	7	0.22
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	8	0.22
(1,954)	1:119:A:VAL:HB	1:120:A:ILE:HD13	13	0.22
(1,945)	1:139:A:VAL:HG13	1:141:A:PRO:HD3	4	0.22
(1,934)	1:111:A:VAL:HG12	1:111:A:VAL:HB	5	0.22
(1,910)	1:139:A:VAL:HG23	1:139:A:VAL:HB	1	0.22
(1,899)	1:72:A:VAL:HG12	1:72:A:VAL:HB	1	0.22
(1,899)	1:72:A:VAL:HG13	1:72:A:VAL:HB	4	0.22
(1,899)	1:72:A:VAL:HG13	1:72:A:VAL:HB	7	0.22
(1,899)	1:72:A:VAL:HG11	1:72:A:VAL:HB	8	0.22
(1,889)	1:96:A:PHE:HE1	1:36:A:ALA:HB2	18	0.22
(1,865)	1:116:A:ALA:HB1	1:140:A:VAL:HB	10	0.22
(1,852)	1:174:A:LEU:HD13	1:174:A:LEU:HD22	14	0.22
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	1	0.22
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	4	0.22
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	10	0.22
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	7	0.22
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG23	7	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,834)	1:45:A:ILE:HD12	1:57:A:LYS:HA	13	0.22
(1,833)	1:37:A:ILE:HD13	1:87:A:ILE:HA	16	0.22
(1,832)	1:28:A:PHE:HB3	1:106:A:GLU:HB2	18	0.22
(1,828)	1:91:A:LEU:HD22	1:91:A:LEU:HB2	2	0.22
(1,828)	1:91:A:LEU:HD21	1:91:A:LEU:HB2	3	0.22
(1,828)	1:91:A:LEU:HD22	1:91:A:LEU:HB2	4	0.22
(1,828)	1:91:A:LEU:HD21	1:91:A:LEU:HB2	18	0.22
(1,826)	1:91:A:LEU:HD21	1:105:A:LEU:HD11	9	0.22
(1,823)	1:29:A:ILE:HG21	1:30:A:PRO:HD3	6	0.22
(1,820)	1:119:A:VAL:HG13	1:119:A:VAL:HG21	12	0.22
(1,812)	1:174:A:LEU:HD11	1:111:A:VAL:HG22	8	0.22
(1,812)	1:174:A:LEU:HD12	1:111:A:VAL:HG21	12	0.22
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	14	0.22
(1,804)	1:50:A:ARG:HD2	1:50:A:ARG:HG3	11	0.22
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	6	0.22
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	7	0.22
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	15	0.22
(1,802)	1:50:A:ARG:HD2	1:50:A:ARG:HB2	3	0.22
(1,802)	1:50:A:ARG:HD2	1:50:A:ARG:HB2	20	0.22
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG21	2	0.22
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG23	18	0.22
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG12	3	0.22
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	11	0.22
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	15	0.22
(1,779)	1:110:A:ARG:HD2	1:110:A:ARG:HG2	16	0.22
(1,748)	1:62:A:GLU:HG2	1:63:A:THR:HG21	20	0.22
(1,741)	1:156:A:ILE:HD11	1:156:A:ILE:HG21	13	0.22
(1,734)	1:153:A:ILE:HD12	1:153:A:ILE:HB	4	0.22
(1,734)	1:153:A:ILE:HD12	1:153:A:ILE:HB	13	0.22
(1,684)	1:25:A:VAL:HG11	1:107:A:THR:HG22	19	0.22
(1,676)	1:90:A:LYS:HG2	1:90:A:LYS:HE2	1	0.22
(1,648)	1:171:A:ARG:HG2	1:109:A:ILE:HD13	6	0.22
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG11	2	0.22
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG11	5	0.22
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG11	11	0.22
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG13	12	0.22
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG13	13	0.22
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG12	15	0.22
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG12	16	0.22
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG11	17	0.22
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG12	19	0.22
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG12	20	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG22	9	0.22
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG23	19	0.22
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD12	18	0.22
(1,581)	1:145:A:THR:HB	1:145:A:THR:HG23	10	0.22
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	8	0.22
(1,575)	1:36:A:ALA:HA	1:36:A:ALA:HB1	11	0.22
(1,575)	1:36:A:ALA:HA	1:36:A:ALA:HB1	14	0.22
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	9	0.22
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	14	0.22
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	19	0.22
(1,554)	1:95:A:ASN:HA	1:95:A:ASN:HB2	2	0.22
(1,515)	1:122:A:LYS:H	1:122:A:LYS:HD3	6	0.22
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	15	0.22
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	19	0.22
(1,451)	1:166:A:ALA:HB3	1:134:A:THR:HB	6	0.22
(1,437)	1:130:A:LEU:HA	1:130:A:LEU:HD22	19	0.22
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	7	0.22
(1,425)	1:86:A:ARG:HA	1:86:A:ARG:HG2	17	0.22
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	10	0.22
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB3	1	0.22
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB1	12	0.22
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB3	15	0.22
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB3	19	0.22
(1,396)	1:90:A:LYS:HD3	1:90:A:LYS:HG2	3	0.22
(1,396)	1:90:A:LYS:HD3	1:90:A:LYS:HG2	6	0.22
(1,396)	1:90:A:LYS:HD3	1:90:A:LYS:HG2	9	0.22
(1,378)	1:57:A:LYS:H	1:57:A:LYS:HG3	14	0.22
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	18	0.22
(1,370)	1:154:A:VAL:HG22	1:119:A:VAL:HG23	3	0.22
(1,370)	1:154:A:VAL:HG23	1:119:A:VAL:HG23	10	0.22
(1,368)	1:130:A:LEU:HD12	1:130:A:LEU:HB3	8	0.22
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB2	11	0.22
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB3	19	0.22
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	1	0.22
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	5	0.22
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	17	0.22
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	17	0.22
(1,240)	1:87:A:ILE:HD13	1:88:A:TYR:HA	16	0.22
(1,238)	1:48:A:LEU:HD21	1:83:A:ALA:HB2	7	0.22
(1,229)	1:119:A:VAL:HG13	1:116:A:ALA:HA	19	0.22
(1,224)	1:54:A:ALA:HB3	1:79:A:ALA:HB1	16	0.22
(1,222)	1:38:A:ILE:HG23	1:38:A:ILE:HD11	18	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,215)	1:115:A:ALA:HB3	1:177:A:VAL:HG23	2	0.22
(1,215)	1:115:A:ALA:HB3	1:177:A:VAL:HG21	16	0.22
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD21	12	0.22
(1,209)	1:52:A:ALA:HB3	1:54:A:ALA:HB1	7	0.22
(1,209)	1:52:A:ALA:HB3	1:54:A:ALA:HB2	11	0.22
(1,209)	1:52:A:ALA:HB2	1:54:A:ALA:HB2	17	0.22
(1,157)	1:94:A:GLU:HA	1:94:A:GLU:HG2	17	0.22
(1,125)	1:112:A:PRO:HD3	1:174:A:LEU:HD22	13	0.22
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	2	0.22
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	4	0.22
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	9	0.22
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	13	0.22
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	14	0.22
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	18	0.22
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	19	0.22
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	12	0.22
(1,63)	1:181:A:HIS:HA	1:181:A:HIS:HB3	1	0.22
(1,63)	1:181:A:HIS:HA	1:181:A:HIS:HB3	2	0.22
(1,63)	1:181:A:HIS:HA	1:181:A:HIS:HB3	4	0.22
(1,63)	1:181:A:HIS:HA	1:181:A:HIS:HB3	5	0.22
(1,63)	1:181:A:HIS:HA	1:181:A:HIS:HB3	8	0.22
(1,63)	1:181:A:HIS:HA	1:181:A:HIS:HB3	9	0.22
(1,63)	1:181:A:HIS:HA	1:181:A:HIS:HB3	16	0.22
(1,63)	1:181:A:HIS:HA	1:181:A:HIS:HB3	20	0.22
(1,38)	1:105:A:LEU:H	1:105:A:LEU:HD21	20	0.22
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG21	20	0.22
(1,1)	1:108:A:HIS:H	1:107:A:THR:HG21	18	0.22
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	10	0.21
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	5	0.21
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	5	0.21
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C1	12	0.21
(1,2470)	1:140:A:VAL:H	2:5:B:6MZ:H9C2	12	0.21
(1,2460)	1:122:A:LYS:HG2	2:2:B:C:H5"	4	0.21
(1,2460)	1:122:A:LYS:HG2	2:2:B:C:H5'	4	0.21
(1,2455)	1:118:A:ARG:HD3	2:1:B:U:H1'	18	0.21
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	5	0.21
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	11	0.21
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	16	0.21
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	17	0.21
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	20	0.21
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	16	0.21
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2365)	1:71:A:VAL:HA	1:58:A:ILE:HA	3	0.21
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	18	0.21
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	20	0.21
(1,2331)	2:3:B:G:H8	2:3:B:G:H2'	17	0.21
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	1	0.21
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	5	0.21
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	17	0.21
(1,2237)	1:25:A:VAL:H	1:73:A:ILE:HA	7	0.21
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	11	0.21
(1,2194)	1:150:A:GLU:H	1:151:A:GLN:HG3	14	0.21
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB3	13	0.21
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB1	14	0.21
(1,2132)	1:98:A:GLY:H	1:97:A:PHE:HA	2	0.21
(1,2132)	1:98:A:GLY:H	1:97:A:PHE:HA	3	0.21
(1,2132)	1:98:A:GLY:H	1:97:A:PHE:HA	8	0.21
(1,2132)	1:98:A:GLY:H	1:97:A:PHE:HA	9	0.21
(1,2124)	1:158:A:GLY:H	1:105:A:LEU:H	3	0.21
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	12	0.21
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	3	0.21
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	7	0.21
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	8	0.21
(1,2025)	1:90:A:LYS:H	1:90:A:LYS:HG2	3	0.21
(1,2023)	1:70:A:MET:H	1:70:A:MET:HB2	4	0.21
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG22	10	0.21
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	3	0.21
(1,1958)	1:95:A:ASN:H	1:91:A:LEU:HB3	10	0.21
(1,1945)	1:35:A:GLY:H	1:36:A:ALA:HB1	6	0.21
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	17	0.21
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	13	0.21
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	16	0.21
(1,1903)	1:170:A:ILE:H	1:168:A:ARG:HA	17	0.21
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB3	18	0.21
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	17	0.21
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	1	0.21
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	1	0.21
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	3	0.21
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	5	0.21
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	9	0.21
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	1	0.21
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	1	0.21
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	2	0.21
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	5	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	10	0.21
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	17	0.21
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	18	0.21
(1,1788)	1:151:A:GLN:H	1:151:A:GLN:HB3	19	0.21
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG22	14	0.21
(1,1764)	1:51:A:PHE:H	1:50:A:ARG:HB2	1	0.21
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	3	0.21
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	4	0.21
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	10	0.21
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	16	0.21
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	3	0.21
(1,1729)	1:95:A:ASN:H	1:94:A:GLU:HA	13	0.21
(1,1705)	1:66:A:SER:H	1:66:A:SER:HB2	8	0.21
(1,1694)	1:97:A:PHE:H	1:96:A:PHE:HB2	11	0.21
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	5	0.21
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	8	0.21
(1,1665)	1:101:A:GLU:H	1:101:A:GLU:HA	1	0.21
(1,1632)	1:139:A:VAL:H	1:138:A:VAL:HG22	8	0.21
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD12	6	0.21
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	5	0.21
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	14	0.21
(1,1602)	1:165:A:MET:HG3	1:165:A:MET:HB2	18	0.21
(1,1592)	1:142:A:ARG:HD2	1:142:A:ARG:HB2	4	0.21
(1,1592)	1:142:A:ARG:HD2	1:142:A:ARG:HB2	18	0.21
(1,1576)	1:29:A:ILE:HD11	1:33:A:ALA:HB3	3	0.21
(1,1564)	1:92:A:LYS:HD3	1:103:A:VAL:HG11	1	0.21
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG12	2	0.21
(1,1544)	1:173:A:ILE:HG22	1:119:A:VAL:HA	18	0.21
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG21	4	0.21
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	2	0.21
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	5	0.21
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	9	0.21
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	15	0.21
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	18	0.21
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	13	0.21
(1,1488)	1:45:A:ILE:HD11	1:45:A:ILE:HG22	16	0.21
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	10	0.21
(1,1428)	1:89:A:GLY:H	1:86:A:ARG:HA	11	0.21
(1,1428)	1:89:A:GLY:H	1:86:A:ARG:HA	18	0.21
(1,1427)	1:73:A:ILE:HB	1:56:A:ILE:HD12	2	0.21
(1,1425)	1:56:A:ILE:HD12	1:56:A:ILE:HG12	3	0.21
(1,1414)	1:57:A:LYS:HE2	1:57:A:LYS:HD3	15	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1414)	1:57:A:LYS:HE2	1:57:A:LYS:HD3	20	0.21
(1,1407)	1:33:A:ALA:HB1	1:30:A:PRO:HB3	15	0.21
(1,1407)	1:33:A:ALA:HB1	1:30:A:PRO:HB3	19	0.21
(1,1396)	1:91:A:LEU:HD23	1:30:A:PRO:HD3	2	0.21
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG3	7	0.21
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	1	0.21
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	2	0.21
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	3	0.21
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	7	0.21
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	9	0.21
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	10	0.21
(1,1363)	1:170:A:ILE:H	1:170:A:ILE:HD12	12	0.21
(1,1358)	1:54:A:ALA:HB2	1:75:A:GLY:HA3	10	0.21
(1,1343)	1:110:A:ARG:HD3	1:110:A:ARG:HB3	10	0.21
(1,1312)	1:119:A:VAL:HA	1:126:A:THR:HG23	7	0.21
(1,1312)	1:119:A:VAL:HA	1:126:A:THR:HG21	8	0.21
(1,1289)	1:31:A:ALA:HB1	1:67:A:LYS:HA	20	0.21
(1,1284)	1:29:A:ILE:HD13	1:30:A:PRO:HD2	1	0.21
(1,1282)	1:110:A:ARG:HA	1:153:A:ILE:HG23	20	0.21
(1,1275)	1:171:A:ARG:H	1:171:A:ARG:HD2	2	0.21
(1,1271)	1:94:A:GLU:HB3	1:96:A:PHE:HZ	15	0.21
(1,1261)	1:104:A:LYS:HG3	1:104:A:LYS:HD2	9	0.21
(1,1261)	1:104:A:LYS:HG3	1:104:A:LYS:HD2	12	0.21
(1,1247)	1:58:A:ILE:HD13	1:58:A:ILE:HG23	15	0.21
(1,1244)	1:91:A:LEU:HD13	1:91:A:LEU:HB2	12	0.21
(1,1244)	1:91:A:LEU:HD13	1:91:A:LEU:HB2	15	0.21
(1,1229)	1:100:A:LYS:HA	1:100:A:LYS:HG2	12	0.21
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	2	0.21
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	3	0.21
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	10	0.21
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	20	0.21
(1,1216)	1:170:A:ILE:HB	1:170:A:ILE:HD11	4	0.21
(1,1216)	1:170:A:ILE:HB	1:170:A:ILE:HD13	7	0.21
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	13	0.21
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	16	0.21
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	17	0.21
(1,1178)	1:30:A:PRO:HD2	1:29:A:ILE:HA	5	0.21
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD11	14	0.21
(1,1111)	1:169:A:LYS:H	1:169:A:LYS:HG2	10	0.21
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD11	19	0.21
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	2	0.21
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	10	0.21
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	15	0.21
(1,1073)	1:88:A:TYR:HE1	1:103:A:VAL:HB	14	0.21
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG21	3	0.21
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG21	5	0.21
(1,1049)	1:97:A:PHE:HD1	1:91:A:LEU:HG	5	0.21
(1,1015)	1:170:A:ILE:HD11	1:130:A:LEU:HD12	9	0.21
(1,1015)	1:170:A:ILE:HD11	1:130:A:LEU:HD12	13	0.21
(1,999)	1:157:A:ILE:HG23	1:104:A:LYS:HA	13	0.21
(1,985)	1:47:A:GLN:HB3	1:47:A:GLN:HG2	2	0.21
(1,985)	1:47:A:GLN:HB3	1:47:A:GLN:HG2	3	0.21
(1,985)	1:47:A:GLN:HB3	1:47:A:GLN:HG2	20	0.21
(1,934)	1:111:A:VAL:HG11	1:111:A:VAL:HB	9	0.21
(1,921)	1:105:A:LEU:HD12	1:97:A:PHE:HE1	14	0.21
(1,899)	1:72:A:VAL:HG11	1:72:A:VAL:HB	3	0.21
(1,899)	1:72:A:VAL:HG12	1:72:A:VAL:HB	6	0.21
(1,899)	1:72:A:VAL:HG11	1:72:A:VAL:HB	9	0.21
(1,899)	1:72:A:VAL:HG12	1:72:A:VAL:HB	10	0.21
(1,856)	1:56:A:ILE:HD11	1:49:A:SER:HA	14	0.21
(1,856)	1:56:A:ILE:HD13	1:49:A:SER:HA	20	0.21
(1,855)	1:25:A:VAL:HG22	1:25:A:VAL:HB	16	0.21
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	1	0.21
(1,838)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	14	0.21
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG22	10	0.21
(1,834)	1:45:A:ILE:HD13	1:57:A:LYS:HA	20	0.21
(1,828)	1:91:A:LEU:HD22	1:91:A:LEU:HB2	6	0.21
(1,823)	1:29:A:ILE:HG21	1:30:A:PRO:HD3	10	0.21
(1,808)	1:71:A:VAL:HG23	1:71:A:VAL:HB	1	0.21
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	15	0.21
(1,803)	1:50:A:ARG:HD2	1:50:A:ARG:HG2	8	0.21
(1,802)	1:50:A:ARG:HD2	1:50:A:ARG:HB2	2	0.21
(1,802)	1:50:A:ARG:HD2	1:50:A:ARG:HB2	18	0.21
(1,797)	1:48:A:LEU:HD13	1:51:A:PHE:HD1	10	0.21
(1,771)	1:156:A:ILE:HD12	1:163:A:SER:HA	11	0.21
(1,766)	1:157:A:ILE:HD12	1:106:A:GLU:HB3	14	0.21
(1,766)	1:157:A:ILE:HD11	1:106:A:GLU:HB3	15	0.21
(1,756)	1:92:A:LYS:HG2	1:103:A:VAL:HG23	3	0.21
(1,756)	1:92:A:LYS:HG2	1:103:A:VAL:HG23	4	0.21
(1,742)	1:156:A:ILE:HD11	1:166:A:ALA:HB1	1	0.21
(1,734)	1:153:A:ILE:HD13	1:153:A:ILE:HB	6	0.21
(1,734)	1:153:A:ILE:HD12	1:153:A:ILE:HB	8	0.21
(1,731)	1:153:A:ILE:HG22	1:153:A:ILE:HD12	3	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	10	0.21
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	12	0.21
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	14	0.21
(1,708)	1:83:A:ALA:HA	1:48:A:LEU:HD12	8	0.21
(1,684)	1:25:A:VAL:HG12	1:107:A:THR:HG21	8	0.21
(1,684)	1:25:A:VAL:HG11	1:107:A:THR:HG21	13	0.21
(1,684)	1:25:A:VAL:HG13	1:107:A:THR:HG22	14	0.21
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG11	5	0.21
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD11	11	0.21
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG12	4	0.21
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG11	18	0.21
(1,619)	1:78:A:GLU:HG2	1:79:A:ALA:HB3	13	0.21
(1,614)	1:103:A:VAL:HG11	1:103:A:VAL:HA	12	0.21
(1,614)	1:103:A:VAL:HG11	1:103:A:VAL:HA	13	0.21
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD12	3	0.21
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG22	7	0.21
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG23	13	0.21
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG23	14	0.21
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG22	18	0.21
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	12	0.21
(1,575)	1:36:A:ALA:HA	1:36:A:ALA:HB1	12	0.21
(1,575)	1:36:A:ALA:HA	1:36:A:ALA:HB1	20	0.21
(1,572)	1:90:A:LYS:HA	1:90:A:LYS:HG2	7	0.21
(1,572)	1:90:A:LYS:HA	1:90:A:LYS:HG2	8	0.21
(1,571)	1:86:A:ARG:HA	1:86:A:ARG:HB2	7	0.21
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	7	0.21
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	15	0.21
(1,562)	1:63:A:THR:HB	1:63:A:THR:HG22	1	0.21
(1,562)	1:63:A:THR:HB	1:63:A:THR:HG22	3	0.21
(1,554)	1:95:A:ASN:HA	1:95:A:ASN:HB2	3	0.21
(1,554)	1:95:A:ASN:HA	1:95:A:ASN:HB2	7	0.21
(1,515)	1:122:A:LYS:H	1:122:A:LYS:HD3	17	0.21
(1,492)	1:103:A:VAL:HG11	1:103:A:VAL:HG22	18	0.21
(1,492)	1:103:A:VAL:HG12	1:103:A:VAL:HG23	19	0.21
(1,469)	1:14:A:PHE:H	1:14:A:PHE:HB3	7	0.21
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	17	0.21
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	2	0.21
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	10	0.21
(1,425)	1:86:A:ARG:HA	1:86:A:ARG:HG2	15	0.21
(1,422)	1:53:A:SER:H	1:52:A:ALA:HB3	14	0.21
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	16	0.21
(1,416)	1:27:A:VAL:HG22	1:27:A:VAL:HG12	16	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,403)	1:130:A:LEU:H	1:130:A:LEU:HB3	17	0.21
(1,388)	1:14:A:PHE:HD1	1:14:A:PHE:HB2	7	0.21
(1,378)	1:57:A:LYS:H	1:57:A:LYS:HG3	15	0.21
(1,378)	1:57:A:LYS:H	1:57:A:LYS:HG3	16	0.21
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	4	0.21
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	20	0.21
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	6	0.21
(1,360)	1:71:A:VAL:HA	1:71:A:VAL:HB	12	0.21
(1,337)	1:23:A:GLU:H	1:23:A:GLU:HG2	9	0.21
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB2	5	0.21
(1,301)	1:55:A:SER:H	1:55:A:SER:HB2	2	0.21
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	4	0.21
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	12	0.21
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	14	0.21
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	16	0.21
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	20	0.21
(1,291)	1:152:A:VAL:HG11	1:144:A:GLN:HG2	18	0.21
(1,249)	1:37:A:ILE:HA	1:37:A:ILE:HG12	15	0.21
(1,243)	1:33:A:ALA:HB3	1:96:A:PHE:HB2	12	0.21
(1,240)	1:87:A:ILE:HD13	1:88:A:TYR:HA	10	0.21
(1,232)	1:111:A:VAL:HG11	1:111:A:VAL:HG22	8	0.21
(1,229)	1:119:A:VAL:HG11	1:116:A:ALA:HA	3	0.21
(1,229)	1:119:A:VAL:HG11	1:116:A:ALA:HA	17	0.21
(1,220)	1:74:A:THR:HG21	1:55:A:SER:HB2	12	0.21
(1,209)	1:52:A:ALA:HB1	1:54:A:ALA:HB1	3	0.21
(1,174)	1:164:A:GLN:HG2	1:164:A:GLN:HA	2	0.21
(1,157)	1:94:A:GLU:HA	1:94:A:GLU:HG2	11	0.21
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	10	0.21
(1,125)	1:112:A:PRO:HD3	1:174:A:LEU:HD21	12	0.21
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	11	0.21
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	19	0.21
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	2	0.21
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	3	0.21
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	8	0.21
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	17	0.21
(1,118)	1:9:A:SER:HB2	1:9:A:SER:HA	19	0.21
(1,116)	1:80:A:GLN:HA	1:83:A:ALA:HB3	12	0.21
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	3	0.21
(1,63)	1:181:A:HIS:HA	1:181:A:HIS:HB3	3	0.21
(1,63)	1:181:A:HIS:HA	1:181:A:HIS:HB3	6	0.21
(1,63)	1:181:A:HIS:HA	1:181:A:HIS:HB3	10	0.21
(1,63)	1:181:A:HIS:HA	1:181:A:HIS:HB3	12	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,63)	1:181:A:HIS:HA	1:181:A:HIS:HB3	14	0.21
(1,63)	1:181:A:HIS:HA	1:181:A:HIS:HB3	15	0.21
(1,63)	1:181:A:HIS:HA	1:181:A:HIS:HB3	19	0.21
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	2	0.21
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG21	7	0.21
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	8	0.2
(1,2465)	1:120:A:ILE:HG21	2:4:B:G:H5'	3	0.2
(1,2465)	1:120:A:ILE:HG22	2:4:B:G:H5'	3	0.2
(1,2465)	1:120:A:ILE:HG23	2:4:B:G:H5'	3	0.2
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	3	0.2
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	7	0.2
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	8	0.2
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	12	0.2
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	17	0.2
(1,2447)	2:7:B:U:H5	2:7:B:U:H4'	20	0.2
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	11	0.2
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	9	0.2
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	11	0.2
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	17	0.2
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	5	0.2
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	8	0.2
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	9	0.2
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	10	0.2
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	11	0.2
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	15	0.2
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	16	0.2
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	17	0.2
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	18	0.2
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	19	0.2
(1,2365)	1:71:A:VAL:HA	1:58:A:ILE:HA	1	0.2
(1,2341)	1:118:A:ARG:HB2	2:2:B:C:H5	15	0.2
(1,2341)	1:118:A:ARG:HB3	2:2:B:C:H5	15	0.2
(1,2341)	1:118:A:ARG:HB2	2:2:B:C:H5	16	0.2
(1,2341)	1:118:A:ARG:HB3	2:2:B:C:H5	16	0.2
(1,2339)	1:120:A:ILE:HG21	2:5:B:6MZ:H1'	4	0.2
(1,2339)	1:120:A:ILE:HG22	2:5:B:6MZ:H1'	4	0.2
(1,2339)	1:120:A:ILE:HG23	2:5:B:6MZ:H1'	4	0.2
(1,2339)	1:120:A:ILE:HG21	2:5:B:6MZ:H1'	14	0.2
(1,2339)	1:120:A:ILE:HG22	2:5:B:6MZ:H1'	14	0.2
(1,2339)	1:120:A:ILE:HG23	2:5:B:6MZ:H1'	14	0.2
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	3	0.2
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2331)	2:3:B:G:H8	2:3:B:G:H2'	10	0.2
(1,2331)	2:3:B:G:H8	2:3:B:G:H2'	19	0.2
(1,2315)	2:2:B:C:H2'	2:3:B:G:H8	2	0.2
(1,2315)	2:2:B:C:H2'	2:3:B:G:H8	8	0.2
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	4	0.2
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	15	0.2
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	4	0.2
(1,2237)	1:25:A:VAL:H	1:73:A:ILE:HA	2	0.2
(1,2237)	1:25:A:VAL:H	1:73:A:ILE:HA	3	0.2
(1,2237)	1:25:A:VAL:H	1:73:A:ILE:HA	4	0.2
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG22	6	0.2
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG22	14	0.2
(1,2219)	1:158:A:GLY:H	1:136:A:ALA:HA	5	0.2
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG11	16	0.2
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	14	0.2
(1,2132)	1:98:A:GLY:H	1:97:A:PHE:HA	1	0.2
(1,2124)	1:158:A:GLY:H	1:105:A:LEU:H	17	0.2
(1,2099)	1:66:A:SER:H	1:65:A:ASP:HA	16	0.2
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	5	0.2
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	6	0.2
(1,2090)	1:96:A:PHE:H	1:97:A:PHE:HD1	8	0.2
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	2	0.2
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	5	0.2
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	10	0.2
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	2	0.2
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	4	0.2
(1,2023)	1:70:A:MET:H	1:70:A:MET:HB2	9	0.2
(1,2023)	1:70:A:MET:H	1:70:A:MET:HB2	11	0.2
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG22	15	0.2
(1,1964)	1:108:A:HIS:H	1:28:A:PHE:HB3	16	0.2
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	5	0.2
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD11	1	0.2
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD13	10	0.2
(1,1939)	1:89:A:GLY:H	1:86:A:ARG:H	17	0.2
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	14	0.2
(1,1920)	1:55:A:SER:H	1:56:A:ILE:H	13	0.2
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	1	0.2
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	4	0.2
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	12	0.2
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	18	0.2
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	19	0.2
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	20	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB3	6	0.2
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	4	0.2
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	5	0.2
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	16	0.2
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	19	0.2
(1,1858)	1:139:A:VAL:H	1:138:A:VAL:HG13	7	0.2
(1,1854)	1:171:A:ARG:H	1:171:A:ARG:HG3	2	0.2
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	2	0.2
(1,1852)	1:179:A:GLN:H	1:176:A:GLN:HA	4	0.2
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	9	0.2
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	19	0.2
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	8	0.2
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB1	19	0.2
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	6	0.2
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	13	0.2
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	7	0.2
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	8	0.2
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	9	0.2
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	13	0.2
(1,1729)	1:95:A:ASN:H	1:94:A:GLU:HA	15	0.2
(1,1729)	1:95:A:ASN:H	1:94:A:GLU:HA	17	0.2
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	4	0.2
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	12	0.2
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	15	0.2
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	20	0.2
(1,1705)	1:66:A:SER:H	1:66:A:SER:HB2	6	0.2
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	6	0.2
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	11	0.2
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	13	0.2
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	19	0.2
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	20	0.2
(1,1666)	1:101:A:GLU:H	1:101:A:GLU:HG2	17	0.2
(1,1641)	1:36:A:ALA:H	1:33:A:ALA:HA	17	0.2
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD12	7	0.2
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD12	9	0.2
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD13	11	0.2
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	12	0.2
(1,1593)	1:58:A:ILE:HD12	1:71:A:VAL:HA	10	0.2
(1,1592)	1:142:A:ARG:HD2	1:142:A:ARG:HB2	16	0.2
(1,1578)	1:30:A:PRO:HD2	1:29:A:ILE:HG21	3	0.2
(1,1578)	1:30:A:PRO:HD2	1:29:A:ILE:HG21	6	0.2
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG12	3	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG12	7	0.2
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG11	10	0.2
(1,1544)	1:173:A:ILE:HG23	1:119:A:VAL:HA	5	0.2
(1,1544)	1:173:A:ILE:HG22	1:119:A:VAL:HA	17	0.2
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG23	11	0.2
(1,1518)	1:22:A:GLN:HB3	1:22:A:GLN:HG3	17	0.2
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	3	0.2
(1,1510)	1:93:A:GLU:HG2	1:94:A:GLU:H	5	0.2
(1,1501)	1:59:A:ALA:HB3	1:72:A:VAL:HG22	4	0.2
(1,1501)	1:59:A:ALA:HB2	1:72:A:VAL:HG22	10	0.2
(1,1487)	1:38:A:ILE:HD12	1:58:A:ILE:H	11	0.2
(1,1470)	1:161:A:TYR:HB3	1:162:A:ALA:H	14	0.2
(1,1437)	1:159:A:HIS:HB2	1:159:A:HIS:HD2	20	0.2
(1,1436)	1:130:A:LEU:H	1:130:A:LEU:HD22	19	0.2
(1,1428)	1:89:A:GLY:H	1:86:A:ARG:HA	13	0.2
(1,1425)	1:56:A:ILE:HD13	1:56:A:ILE:HG12	2	0.2
(1,1425)	1:56:A:ILE:HD13	1:56:A:ILE:HG12	4	0.2
(1,1425)	1:56:A:ILE:HD12	1:56:A:ILE:HG12	6	0.2
(1,1414)	1:57:A:LYS:HE2	1:57:A:LYS:HD3	11	0.2
(1,1407)	1:33:A:ALA:HB2	1:30:A:PRO:HB3	14	0.2
(1,1397)	1:91:A:LEU:HA	1:91:A:LEU:HD23	16	0.2
(1,1396)	1:91:A:LEU:HD21	1:30:A:PRO:HD3	14	0.2
(1,1396)	1:91:A:LEU:HD21	1:30:A:PRO:HD3	16	0.2
(1,1371)	1:68:A:VAL:HG21	1:69:A:ARG:H	14	0.2
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	6	0.2
(1,1368)	1:63:A:THR:HA	1:64:A:PRO:HD2	8	0.2
(1,1363)	1:170:A:ILE:H	1:170:A:ILE:HD11	14	0.2
(1,1300)	1:105:A:LEU:HD13	1:29:A:ILE:HG21	8	0.2
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD12	19	0.2
(1,1282)	1:110:A:ARG:HA	1:153:A:ILE:HG23	13	0.2
(1,1272)	1:97:A:PHE:HE1	1:103:A:VAL:HG12	10	0.2
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	6	0.2
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	8	0.2
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	9	0.2
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	10	0.2
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	11	0.2
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	13	0.2
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	17	0.2
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	18	0.2
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	19	0.2
(1,1258)	1:147:A:ASP:H	1:147:A:ASP:HB3	17	0.2
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	19	0.2
(1,1178)	1:30:A:PRO:HD2	1:29:A:ILE:HA	3	0.2
(1,1178)	1:30:A:PRO:HD2	1:29:A:ILE:HA	4	0.2
(1,1178)	1:30:A:PRO:HD2	1:29:A:ILE:HA	6	0.2
(1,1178)	1:30:A:PRO:HD2	1:29:A:ILE:HA	8	0.2
(1,1178)	1:30:A:PRO:HD2	1:29:A:ILE:HA	10	0.2
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD12	2	0.2
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD13	13	0.2
(1,1134)	1:104:A:LYS:H	1:104:A:LYS:HB3	17	0.2
(1,1133)	1:104:A:LYS:H	1:104:A:LYS:HB2	3	0.2
(1,1111)	1:169:A:LYS:H	1:169:A:LYS:HG2	13	0.2
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD13	2	0.2
(1,1102)	1:93:A:GLU:H	1:93:A:GLU:HG3	15	0.2
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	13	0.2
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD11	15	0.2
(1,1072)	1:88:A:TYR:HE1	1:105:A:LEU:HB2	2	0.2
(1,1049)	1:97:A:PHE:HD1	1:91:A:LEU:HG	3	0.2
(1,1042)	1:96:A:PHE:HD1	1:94:A:GLU:HB3	5	0.2
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	19	0.2
(1,1019)	1:155:A:LYS:HE3	1:155:A:LYS:HG2	8	0.2
(1,1014)	1:166:A:ALA:HB1	1:134:A:THR:HG21	16	0.2
(1,1014)	1:166:A:ALA:HB2	1:134:A:THR:HG23	20	0.2
(1,998)	1:104:A:LYS:HE2	1:157:A:ILE:HG23	12	0.2
(1,990)	1:110:A:ARG:HD3	1:153:A:ILE:HD13	9	0.2
(1,969)	1:33:A:ALA:HA	1:96:A:PHE:HD2	2	0.2
(1,954)	1:119:A:VAL:HB	1:120:A:ILE:HD13	15	0.2
(1,954)	1:119:A:VAL:HB	1:120:A:ILE:HD12	18	0.2
(1,947)	1:63:A:THR:HB	1:62:A:GLU:HG3	5	0.2
(1,945)	1:139:A:VAL:HG11	1:141:A:PRO:HD3	1	0.2
(1,945)	1:139:A:VAL:HG13	1:141:A:PRO:HD3	6	0.2
(1,934)	1:111:A:VAL:HG11	1:111:A:VAL:HB	7	0.2
(1,934)	1:111:A:VAL:HG12	1:111:A:VAL:HB	13	0.2
(1,934)	1:111:A:VAL:HG13	1:111:A:VAL:HB	19	0.2
(1,910)	1:139:A:VAL:HG23	1:139:A:VAL:HB	5	0.2
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD3	9	0.2
(1,887)	1:29:A:ILE:HD11	1:37:A:ILE:HG13	20	0.2
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	6	0.2
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	18	0.2
(1,852)	1:174:A:LEU:HD12	1:174:A:LEU:HD23	4	0.2
(1,846)	1:57:A:LYS:HE2	1:57:A:LYS:HB2	5	0.2
(1,828)	1:91:A:LEU:HD22	1:91:A:LEU:HB2	8	0.2
(1,820)	1:119:A:VAL:HG13	1:119:A:VAL:HG21	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,820)	1:119:A:VAL:HG12	1:119:A:VAL:HG23	9	0.2
(1,812)	1:174:A:LEU:HD12	1:111:A:VAL:HG23	4	0.2
(1,808)	1:71:A:VAL:HG22	1:71:A:VAL:HB	5	0.2
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	1	0.2
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	3	0.2
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	8	0.2
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	9	0.2
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	11	0.2
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	12	0.2
(1,798)	1:48:A:LEU:HD13	1:48:A:LEU:HB3	16	0.2
(1,797)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	6	0.2
(1,784)	1:34:A:VAL:HG11	1:58:A:ILE:HD13	9	0.2
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG12	11	0.2
(1,771)	1:156:A:ILE:HD11	1:163:A:SER:HA	4	0.2
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG22	2	0.2
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG21	12	0.2
(1,748)	1:62:A:GLU:HG2	1:63:A:THR:HG21	14	0.2
(1,745)	1:145:A:THR:HG21	1:146:A:PRO:HD3	3	0.2
(1,745)	1:145:A:THR:HG21	1:146:A:PRO:HD3	9	0.2
(1,741)	1:156:A:ILE:HD12	1:156:A:ILE:HG23	6	0.2
(1,734)	1:153:A:ILE:HD13	1:153:A:ILE:HB	3	0.2
(1,733)	1:153:A:ILE:HD13	1:153:A:ILE:HG12	15	0.2
(1,733)	1:153:A:ILE:HD12	1:153:A:ILE:HG12	20	0.2
(1,731)	1:153:A:ILE:HG22	1:153:A:ILE:HD11	5	0.2
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	18	0.2
(1,708)	1:83:A:ALA:HA	1:48:A:LEU:HD12	6	0.2
(1,685)	1:116:A:ALA:HB3	1:140:A:VAL:HG12	5	0.2
(1,685)	1:116:A:ALA:HB1	1:140:A:VAL:HG11	13	0.2
(1,684)	1:25:A:VAL:HG13	1:107:A:THR:HG23	7	0.2
(1,676)	1:90:A:LYS:HG2	1:90:A:LYS:HE2	8	0.2
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG11	3	0.2
(1,603)	1:37:A:ILE:HD13	1:37:A:ILE:HA	15	0.2
(1,595)	1:74:A:THR:HB	1:74:A:THR:HG23	14	0.2
(1,575)	1:36:A:ALA:HA	1:36:A:ALA:HB3	13	0.2
(1,572)	1:90:A:LYS:HA	1:90:A:LYS:HG2	1	0.2
(1,565)	1:92:A:LYS:HA	1:92:A:LYS:HG2	17	0.2
(1,562)	1:63:A:THR:HB	1:63:A:THR:HG22	4	0.2
(1,562)	1:63:A:THR:HB	1:63:A:THR:HG22	5	0.2
(1,562)	1:63:A:THR:HB	1:63:A:THR:HG22	9	0.2
(1,562)	1:63:A:THR:HB	1:63:A:THR:HG21	10	0.2
(1,554)	1:95:A:ASN:HA	1:95:A:ASN:HB2	13	0.2
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	20	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	12	0.2
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	14	0.2
(1,451)	1:166:A:ALA:HB1	1:134:A:THR:HB	17	0.2
(1,449)	1:71:A:VAL:H	1:71:A:VAL:HG21	8	0.2
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	13	0.2
(1,437)	1:130:A:LEU:HA	1:130:A:LEU:HD21	7	0.2
(1,433)	1:90:A:LYS:HA	1:90:A:LYS:HD3	19	0.2
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	1	0.2
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	8	0.2
(1,416)	1:27:A:VAL:HG21	1:27:A:VAL:HG12	20	0.2
(1,403)	1:130:A:LEU:H	1:130:A:LEU:HB3	6	0.2
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB2	7	0.2
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB3	8	0.2
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB3	9	0.2
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB1	17	0.2
(1,396)	1:90:A:LYS:HD3	1:90:A:LYS:HG2	4	0.2
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG21	1	0.2
(1,360)	1:71:A:VAL:HA	1:71:A:VAL:HB	20	0.2
(1,337)	1:23:A:GLU:H	1:23:A:GLU:HG2	5	0.2
(1,337)	1:23:A:GLU:H	1:23:A:GLU:HG2	14	0.2
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB2	2	0.2
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB1	19	0.2
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	2	0.2
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	17	0.2
(1,296)	1:138:A:VAL:HG13	1:138:A:VAL:HG23	16	0.2
(1,296)	1:138:A:VAL:HG12	1:138:A:VAL:HG23	18	0.2
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	15	0.2
(1,280)	1:168:A:ARG:HD2	1:168:A:ARG:HB2	20	0.2
(1,250)	1:56:A:ILE:HD12	1:56:A:ILE:HB	16	0.2
(1,243)	1:33:A:ALA:HB3	1:96:A:PHE:HB2	16	0.2
(1,220)	1:74:A:THR:HG23	1:55:A:SER:HB2	18	0.2
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD21	13	0.2
(1,174)	1:164:A:GLN:HG2	1:164:A:GLN:HA	16	0.2
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	19	0.2
(1,157)	1:94:A:GLU:HA	1:94:A:GLU:HG2	16	0.2
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	9	0.2
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	4	0.2
(1,125)	1:112:A:PRO:HD3	1:174:A:LEU:HD21	3	0.2
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	13	0.2
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	12	0.2
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	13	0.2
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	15	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD12	2	0.2
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD12	10	0.2
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD13	20	0.2
(1,23)	1:165:A:MET:H	1:162:A:ALA:HA	6	0.2
(1,23)	1:165:A:MET:H	1:162:A:ALA:HA	13	0.2
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	6	0.19
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	12	0.19
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	7	0.19
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	8	0.19
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	13	0.19
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	15	0.19
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	19	0.19
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	1	0.19
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	2	0.19
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	3	0.19
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	4	0.19
(1,2369)	1:28:A:PHE:HA	1:70:A:MET:HA	10	0.19
(1,2365)	1:71:A:VAL:HA	1:58:A:ILE:HA	4	0.19
(1,2365)	1:71:A:VAL:HA	1:58:A:ILE:HA	7	0.19
(1,2361)	1:138:A:VAL:HA	1:156:A:ILE:HA	5	0.19
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	4	0.19
(1,2347)	1:127:A:VAL:HG11	2:5:B:6MZ:H1'	14	0.19
(1,2347)	1:127:A:VAL:HG12	2:5:B:6MZ:H1'	14	0.19
(1,2347)	1:127:A:VAL:HG13	2:5:B:6MZ:H1'	14	0.19
(1,2345)	2:2:B:C:H5	2:1:B:U:H5'	9	0.19
(1,2339)	1:120:A:ILE:HG21	2:5:B:6MZ:H1'	8	0.19
(1,2339)	1:120:A:ILE:HG22	2:5:B:6MZ:H1'	8	0.19
(1,2339)	1:120:A:ILE:HG23	2:5:B:6MZ:H1'	8	0.19
(1,2324)	1:118:A:ARG:HB2	2:2:B:C:H4'	9	0.19
(1,2324)	1:118:A:ARG:HB3	2:2:B:C:H4'	9	0.19
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	19	0.19
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	7	0.19
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	8	0.19
(1,2270)	1:84:A:GLN:HE21	1:84:A:GLN:HB3	7	0.19
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	2	0.19
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG12	8	0.19
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	14	0.19
(1,2132)	1:98:A:GLY:H	1:97:A:PHE:HA	4	0.19
(1,2116)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	19	0.19
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	1	0.19
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	13	0.19
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	9	0.19
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	1	0.19
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	3	0.19
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG12	5	0.19
(1,1993)	1:71:A:VAL:H	1:28:A:PHE:HA	9	0.19
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	2	0.19
(1,1946)	1:49:A:SER:H	1:45:A:ILE:HD11	8	0.19
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	11	0.19
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	14	0.19
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	15	0.19
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	17	0.19
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	3	0.19
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	6	0.19
(1,1896)	1:154:A:VAL:H	1:109:A:ILE:HG12	7	0.19
(1,1896)	1:154:A:VAL:H	1:109:A:ILE:HG12	20	0.19
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB3	8	0.19
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB3	9	0.19
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	20	0.19
(1,1858)	1:139:A:VAL:H	1:138:A:VAL:HG13	1	0.19
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	6	0.19
(1,1839)	1:93:A:GLU:H	1:93:A:GLU:HG2	12	0.19
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB3	13	0.19
(1,1812)	1:171:A:ARG:H	1:168:A:ARG:HA	7	0.19
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	2	0.19
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	5	0.19
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	6	0.19
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	1	0.19
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	6	0.19
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	7	0.19
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	8	0.19
(1,1729)	1:95:A:ASN:H	1:94:A:GLU:HA	14	0.19
(1,1729)	1:95:A:ASN:H	1:94:A:GLU:HA	18	0.19
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	4	0.19
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	9	0.19
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	20	0.19
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	3	0.19
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	17	0.19
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	20	0.19
(1,1688)	1:34:A:VAL:H	1:33:A:ALA:HB2	7	0.19
(1,1684)	1:54:A:ALA:H	1:53:A:SER:HA	15	0.19
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	13	0.19
(1,1677)	1:179:A:GLN:H	1:179:A:GLN:HB2	7	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	2	0.19
(1,1665)	1:101:A:GLU:H	1:101:A:GLU:HA	10	0.19
(1,1657)	1:93:A:GLU:H	1:93:A:GLU:HG2	12	0.19
(1,1628)	1:74:A:THR:H	1:56:A:ILE:HA	18	0.19
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD13	8	0.19
(1,1619)	1:157:A:ILE:HG23	1:104:A:LYS:HD2	8	0.19
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	13	0.19
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	16	0.19
(1,1601)	1:134:A:THR:HG21	1:165:A:MET:HG2	13	0.19
(1,1576)	1:29:A:ILE:HD13	1:33:A:ALA:HB2	1	0.19
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	2	0.19
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	11	0.19
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	16	0.19
(1,1568)	1:37:A:ILE:HG12	1:29:A:ILE:HD12	14	0.19
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG13	6	0.19
(1,1544)	1:173:A:ILE:HG22	1:119:A:VAL:HA	15	0.19
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG23	19	0.19
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	7	0.19
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	8	0.19
(1,1514)	1:139:A:VAL:H	1:139:A:VAL:HG23	1	0.19
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	4	0.19
(1,1483)	1:33:A:ALA:HA	1:36:A:ALA:HB3	16	0.19
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	12	0.19
(1,1425)	1:56:A:ILE:HD13	1:56:A:ILE:HG12	18	0.19
(1,1414)	1:57:A:LYS:HE2	1:57:A:LYS:HD3	16	0.19
(1,1371)	1:68:A:VAL:HG21	1:69:A:ARG:H	1	0.19
(1,1371)	1:68:A:VAL:HG22	1:69:A:ARG:H	15	0.19
(1,1369)	1:62:A:GLU:HB2	1:62:A:GLU:HG3	3	0.19
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	8	0.19
(1,1293)	1:57:A:LYS:HB3	1:72:A:VAL:HB	16	0.19
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD11	15	0.19
(1,1282)	1:110:A:ARG:HA	1:153:A:ILE:HG23	11	0.19
(1,1277)	1:169:A:LYS:HB2	1:130:A:LEU:HD12	6	0.19
(1,1277)	1:169:A:LYS:HB2	1:130:A:LEU:HD12	7	0.19
(1,1263)	1:49:A:SER:HA	1:49:A:SER:HB2	4	0.19
(1,1258)	1:147:A:ASP:H	1:147:A:ASP:HB3	13	0.19
(1,1258)	1:147:A:ASP:H	1:147:A:ASP:HB3	19	0.19
(1,1249)	1:34:A:VAL:HA	1:58:A:ILE:HD11	1	0.19
(1,1247)	1:58:A:ILE:HD12	1:58:A:ILE:HG23	7	0.19
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	5	0.19
(1,1157)	1:172:A:ASP:HA	1:172:A:ASP:HB3	2	0.19
(1,1157)	1:172:A:ASP:HA	1:172:A:ASP:HB3	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD12	8	0.19
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD13	12	0.19
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	10	0.19
(1,1135)	1:80:A:GLN:HE22	1:25:A:VAL:HG22	2	0.19
(1,1121)	1:87:A:ILE:H	1:86:A:ARG:HB2	12	0.19
(1,1121)	1:87:A:ILE:H	1:86:A:ARG:HB2	17	0.19
(1,1111)	1:169:A:LYS:H	1:169:A:LYS:HG2	5	0.19
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	9	0.19
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	18	0.19
(1,1058)	1:26:A:HIS:HD2	1:72:A:VAL:HG13	12	0.19
(1,1012)	1:136:A:ALA:HA	1:162:A:ALA:HB1	14	0.19
(1,1006)	1:83:A:ALA:HB3	1:73:A:ILE:HB	11	0.19
(1,993)	1:18:A:MET:HA	1:19:A:PRO:HD2	17	0.19
(1,993)	1:18:A:MET:HA	1:19:A:PRO:HD2	19	0.19
(1,983)	1:48:A:LEU:HD23	1:83:A:ALA:HA	1	0.19
(1,982)	1:48:A:LEU:HD21	1:48:A:LEU:HB3	19	0.19
(1,978)	1:29:A:ILE:HA	1:105:A:LEU:HD12	10	0.19
(1,971)	1:52:A:ALA:HB1	1:56:A:ILE:HD13	2	0.19
(1,971)	1:52:A:ALA:HB2	1:56:A:ILE:HD12	20	0.19
(1,970)	1:33:A:ALA:HA	1:96:A:PHE:HE2	7	0.19
(1,966)	1:91:A:LEU:HG	1:97:A:PHE:HE1	12	0.19
(1,945)	1:139:A:VAL:HG13	1:141:A:PRO:HD3	9	0.19
(1,945)	1:139:A:VAL:HG12	1:141:A:PRO:HD3	15	0.19
(1,944)	1:138:A:VAL:HG11	1:127:A:VAL:HA	17	0.19
(1,938)	1:24:A:THR:HG23	1:26:A:HIS:HD2	16	0.19
(1,934)	1:111:A:VAL:HG13	1:111:A:VAL:HB	2	0.19
(1,934)	1:111:A:VAL:HG12	1:111:A:VAL:HB	4	0.19
(1,934)	1:111:A:VAL:HG13	1:111:A:VAL:HB	8	0.19
(1,934)	1:111:A:VAL:HG13	1:111:A:VAL:HB	14	0.19
(1,934)	1:111:A:VAL:HG12	1:111:A:VAL:HB	15	0.19
(1,934)	1:111:A:VAL:HG11	1:111:A:VAL:HB	17	0.19
(1,934)	1:111:A:VAL:HG13	1:111:A:VAL:HB	18	0.19
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	19	0.19
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD3	16	0.19
(1,899)	1:72:A:VAL:HG12	1:72:A:VAL:HB	2	0.19
(1,899)	1:72:A:VAL:HG12	1:72:A:VAL:HB	11	0.19
(1,899)	1:72:A:VAL:HG12	1:72:A:VAL:HB	12	0.19
(1,899)	1:72:A:VAL:HG13	1:72:A:VAL:HB	19	0.19
(1,894)	1:54:A:ALA:HB2	1:56:A:ILE:HD12	20	0.19
(1,874)	1:104:A:LYS:HE2	1:104:A:LYS:HB3	20	0.19
(1,865)	1:116:A:ALA:HB2	1:140:A:VAL:HB	9	0.19
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	2	0.19
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	5	0.19
(1,856)	1:56:A:ILE:HD13	1:49:A:SER:HA	3	0.19
(1,852)	1:174:A:LEU:HD12	1:174:A:LEU:HD22	12	0.19
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG21	1	0.19
(1,828)	1:91:A:LEU:HD22	1:91:A:LEU:HB2	9	0.19
(1,823)	1:29:A:ILE:HG21	1:30:A:PRO:HD3	8	0.19
(1,812)	1:174:A:LEU:HD12	1:111:A:VAL:HG23	5	0.19
(1,808)	1:71:A:VAL:HG21	1:71:A:VAL:HB	8	0.19
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	5	0.19
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	17	0.19
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	18	0.19
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	11	0.19
(1,798)	1:48:A:LEU:HD13	1:48:A:LEU:HB3	18	0.19
(1,785)	1:34:A:VAL:HB	1:34:A:VAL:HG23	15	0.19
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG13	6	0.19
(1,782)	1:105:A:LEU:HD11	1:105:A:LEU:HB3	4	0.19
(1,781)	1:100:A:LYS:HG2	1:100:A:LYS:HD2	1	0.19
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG22	8	0.19
(1,753)	1:107:A:THR:HG21	1:27:A:VAL:HA	18	0.19
(1,748)	1:62:A:GLU:HG2	1:63:A:THR:HG21	13	0.19
(1,745)	1:145:A:THR:HG22	1:146:A:PRO:HD3	1	0.19
(1,745)	1:145:A:THR:HG23	1:146:A:PRO:HD3	5	0.19
(1,745)	1:145:A:THR:HG23	1:146:A:PRO:HD3	6	0.19
(1,734)	1:153:A:ILE:HD11	1:153:A:ILE:HB	1	0.19
(1,734)	1:153:A:ILE:HD12	1:153:A:ILE:HB	2	0.19
(1,734)	1:153:A:ILE:HD12	1:153:A:ILE:HB	5	0.19
(1,734)	1:153:A:ILE:HD13	1:153:A:ILE:HB	7	0.19
(1,733)	1:153:A:ILE:HD13	1:153:A:ILE:HG12	10	0.19
(1,733)	1:153:A:ILE:HD13	1:153:A:ILE:HG12	14	0.19
(1,733)	1:153:A:ILE:HD11	1:153:A:ILE:HG12	17	0.19
(1,731)	1:153:A:ILE:HG22	1:153:A:ILE:HD13	1	0.19
(1,731)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	8	0.19
(1,731)	1:153:A:ILE:HG23	1:153:A:ILE:HD11	19	0.19
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	7	0.19
(1,685)	1:116:A:ALA:HB3	1:140:A:VAL:HG13	2	0.19
(1,685)	1:116:A:ALA:HB1	1:140:A:VAL:HG12	7	0.19
(1,685)	1:116:A:ALA:HB2	1:140:A:VAL:HG12	8	0.19
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG13	18	0.19
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG13	7	0.19
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	5	0.19
(1,608)	1:174:A:LEU:HD13	1:112:A:PRO:HD3	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,585)	1:22:A:GLN:HA	1:22:A:GLN:HG2	20	0.19
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	7	0.19
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	10	0.19
(1,571)	1:86:A:ARG:HA	1:86:A:ARG:HB2	6	0.19
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	4	0.19
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	8	0.19
(1,565)	1:92:A:LYS:HA	1:92:A:LYS:HG2	15	0.19
(1,562)	1:63:A:THR:HB	1:63:A:THR:HG22	2	0.19
(1,562)	1:63:A:THR:HB	1:63:A:THR:HG21	7	0.19
(1,534)	1:110:A:ARG:HA	1:110:A:ARG:HD3	12	0.19
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	17	0.19
(1,489)	1:100:A:LYS:HG2	1:100:A:LYS:HB3	6	0.19
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	11	0.19
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	13	0.19
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	1	0.19
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	5	0.19
(1,451)	1:166:A:ALA:HB2	1:134:A:THR:HB	15	0.19
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG11	5	0.19
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG12	12	0.19
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	10	0.19
(1,425)	1:86:A:ARG:HA	1:86:A:ARG:HG2	12	0.19
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	9	0.19
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	14	0.19
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	18	0.19
(1,403)	1:130:A:LEU:H	1:130:A:LEU:HB3	15	0.19
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB3	3	0.19
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB1	4	0.19
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB1	5	0.19
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB2	6	0.19
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB2	13	0.19
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB3	18	0.19
(1,381)	1:101:A:GLU:HB3	1:101:A:GLU:HA	18	0.19
(1,358)	1:111:A:VAL:HA	1:112:A:PRO:HD2	1	0.19
(1,352)	1:59:A:ALA:HB3	1:60:A:PRO:HD3	2	0.19
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB3	10	0.19
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	11	0.19
(1,299)	1:180:A:GLN:H	1:177:A:VAL:HA	19	0.19
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	17	0.19
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	19	0.19
(1,257)	1:97:A:PHE:H	1:97:A:PHE:HB2	2	0.19
(1,257)	1:97:A:PHE:H	1:97:A:PHE:HB2	5	0.19
(1,238)	1:48:A:LEU:HD23	1:83:A:ALA:HB2	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,222)	1:38:A:ILE:HG23	1:38:A:ILE:HD12	16	0.19
(1,215)	1:115:A:ALA:HB1	1:177:A:VAL:HG23	10	0.19
(1,209)	1:52:A:ALA:HB1	1:54:A:ALA:HB1	1	0.19
(1,174)	1:164:A:GLN:HG2	1:164:A:GLN:HA	8	0.19
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	1	0.19
(1,172)	1:168:A:ARG:HA	1:168:A:ARG:HB2	1	0.19
(1,172)	1:168:A:ARG:HA	1:168:A:ARG:HB2	3	0.19
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	18	0.19
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	2	0.19
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	3	0.19
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	4	0.19
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	7	0.19
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	7	0.19
(1,125)	1:112:A:PRO:HD3	1:174:A:LEU:HD22	2	0.19
(1,125)	1:112:A:PRO:HD3	1:174:A:LEU:HD22	18	0.19
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	5	0.19
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	6	0.19
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	8	0.19
(1,120)	1:37:A:ILE:HG23	1:37:A:ILE:HA	1	0.19
(1,120)	1:37:A:ILE:HG21	1:37:A:ILE:HA	4	0.19
(1,97)	1:83:A:ALA:HA	1:52:A:ALA:HB3	16	0.19
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	4	0.19
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	5	0.19
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	6	0.19
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	8	0.19
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	9	0.19
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	10	0.19
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	19	0.19
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	2	0.18
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	17	0.18
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	5	0.18
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	6	0.18
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	14	0.18
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	13	0.18
(1,2392)	1:165:A:MET:H	1:166:A:ALA:H	8	0.18
(1,2339)	1:120:A:ILE:HG21	2:5:B:6MZ:H1'	3	0.18
(1,2339)	1:120:A:ILE:HG22	2:5:B:6MZ:H1'	3	0.18
(1,2339)	1:120:A:ILE:HG23	2:5:B:6MZ:H1'	3	0.18
(1,2339)	1:120:A:ILE:HG21	2:5:B:6MZ:H1'	15	0.18
(1,2339)	1:120:A:ILE:HG22	2:5:B:6MZ:H1'	15	0.18
(1,2339)	1:120:A:ILE:HG23	2:5:B:6MZ:H1'	15	0.18
(1,2335)	1:127:A:VAL:HG11	2:5:B:6MZ:H2	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2335)	1:127:A:VAL:HG12	2:5:B:6MZ:H2	8	0.18
(1,2335)	1:127:A:VAL:HG13	2:5:B:6MZ:H2	8	0.18
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	7	0.18
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	10	0.18
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	6	0.18
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	18	0.18
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	6	0.18
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	10	0.18
(1,2237)	1:25:A:VAL:H	1:73:A:ILE:HA	9	0.18
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	16	0.18
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG13	11	0.18
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG13	15	0.18
(1,2124)	1:158:A:GLY:H	1:105:A:LEU:H	12	0.18
(1,2116)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	16	0.18
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	4	0.18
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	9	0.18
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	10	0.18
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	5	0.18
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	15	0.18
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	16	0.18
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	19	0.18
(1,2097)	1:96:A:PHE:H	1:94:A:GLU:HB2	15	0.18
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	7	0.18
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	8	0.18
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB1	12	0.18
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG13	2	0.18
(1,1993)	1:71:A:VAL:H	1:28:A:PHE:HA	2	0.18
(1,1993)	1:71:A:VAL:H	1:28:A:PHE:HA	20	0.18
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	1	0.18
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	7	0.18
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	13	0.18
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	20	0.18
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	1	0.18
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	12	0.18
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	18	0.18
(1,1942)	1:45:A:ILE:H	1:38:A:ILE:HA	18	0.18
(1,1939)	1:89:A:GLY:H	1:86:A:ARG:H	20	0.18
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	12	0.18
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	13	0.18
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	20	0.18
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	5	0.18
(1,1920)	1:55:A:SER:H	1:56:A:ILE:H	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1920)	1:55:A:SER:H	1:56:A:ILE:H	12	0.18
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	6	0.18
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	7	0.18
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	8	0.18
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	9	0.18
(1,1896)	1:154:A:VAL:H	1:109:A:ILE:HG12	13	0.18
(1,1885)	1:155:A:LYS:H	1:139:A:VAL:HG13	6	0.18
(1,1879)	1:71:A:VAL:H	1:26:A:HIS:HA	16	0.18
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	13	0.18
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	6	0.18
(1,1858)	1:139:A:VAL:H	1:138:A:VAL:HG12	13	0.18
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	11	0.18
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	4	0.18
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	1	0.18
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	2	0.18
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	3	0.18
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	4	0.18
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	5	0.18
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	6	0.18
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	7	0.18
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	8	0.18
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	9	0.18
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	10	0.18
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	16	0.18
(1,1799)	1:155:A:LYS:H	1:154:A:VAL:HB	16	0.18
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	5	0.18
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	2	0.18
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	4	0.18
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	5	0.18
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	9	0.18
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	14	0.18
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	15	0.18
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	16	0.18
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	20	0.18
(1,1729)	1:95:A:ASN:H	1:94:A:GLU:HA	10	0.18
(1,1729)	1:95:A:ASN:H	1:94:A:GLU:HA	11	0.18
(1,1729)	1:95:A:ASN:H	1:94:A:GLU:HA	19	0.18
(1,1729)	1:95:A:ASN:H	1:94:A:GLU:HA	20	0.18
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	1	0.18
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	2	0.18
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	3	0.18
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	6	0.18
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	7	0.18
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	8	0.18
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	10	0.18
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	11	0.18
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	12	0.18
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	13	0.18
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	14	0.18
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	15	0.18
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	16	0.18
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	17	0.18
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	18	0.18
(1,1725)	1:167:A:GLN:HE22	1:167:A:GLN:HE21	19	0.18
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	1	0.18
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	2	0.18
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	9	0.18
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	18	0.18
(1,1683)	1:177:A:VAL:H	1:176:A:GLN:HA	7	0.18
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	11	0.18
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	17	0.18
(1,1593)	1:58:A:ILE:HD11	1:71:A:VAL:HA	3	0.18
(1,1591)	1:146:A:PRO:HG2	1:113:A:ALA:HB2	9	0.18
(1,1589)	1:151:A:GLN:HG2	1:149:A:ASN:HB2	2	0.18
(1,1579)	1:32:A:GLN:HG2	1:96:A:PHE:HD1	19	0.18
(1,1576)	1:29:A:ILE:HD12	1:33:A:ALA:HB1	13	0.18
(1,1575)	1:168:A:ARG:HA	1:171:A:ARG:HG3	3	0.18
(1,1575)	1:168:A:ARG:HA	1:171:A:ARG:HG3	19	0.18
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	4	0.18
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	7	0.18
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	8	0.18
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	12	0.18
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	13	0.18
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	14	0.18
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	20	0.18
(1,1568)	1:37:A:ILE:HG12	1:29:A:ILE:HD12	4	0.18
(1,1564)	1:92:A:LYS:HD3	1:103:A:VAL:HG12	8	0.18
(1,1544)	1:173:A:ILE:HG21	1:119:A:VAL:HA	19	0.18
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG23	1	0.18
(1,1514)	1:139:A:VAL:H	1:139:A:VAL:HG23	19	0.18
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	20	0.18
(1,1425)	1:56:A:ILE:HD12	1:56:A:ILE:HG12	17	0.18
(1,1397)	1:91:A:LEU:HA	1:91:A:LEU:HD21	20	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1363)	1:170:A:ILE:H	1:170:A:ILE:HD13	1	0.18
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	2	0.18
(1,1312)	1:119:A:VAL:HA	1:126:A:THR:HG23	19	0.18
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD13	10	0.18
(1,1282)	1:110:A:ARG:HA	1:153:A:ILE:HG23	5	0.18
(1,1282)	1:110:A:ARG:HA	1:153:A:ILE:HG21	14	0.18
(1,1258)	1:147:A:ASP:H	1:147:A:ASP:HB3	4	0.18
(1,1258)	1:147:A:ASP:H	1:147:A:ASP:HB3	6	0.18
(1,1247)	1:58:A:ILE:HD13	1:58:A:ILE:HG22	8	0.18
(1,1247)	1:58:A:ILE:HD11	1:58:A:ILE:HG22	11	0.18
(1,1244)	1:91:A:LEU:HD12	1:91:A:LEU:HB2	14	0.18
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	13	0.18
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	18	0.18
(1,1197)	1:172:A:ASP:HB3	1:169:A:LYS:HA	5	0.18
(1,1181)	1:173:A:ILE:HD11	1:119:A:VAL:HA	5	0.18
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	12	0.18
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	18	0.18
(1,1166)	1:70:A:MET:HA	1:70:A:MET:HG2	16	0.18
(1,1157)	1:172:A:ASP:HA	1:172:A:ASP:HB3	3	0.18
(1,1157)	1:172:A:ASP:HA	1:172:A:ASP:HB3	6	0.18
(1,1157)	1:172:A:ASP:HA	1:172:A:ASP:HB3	10	0.18
(1,1157)	1:172:A:ASP:HA	1:172:A:ASP:HB3	11	0.18
(1,1157)	1:172:A:ASP:HA	1:172:A:ASP:HB3	12	0.18
(1,1157)	1:172:A:ASP:HA	1:172:A:ASP:HB3	13	0.18
(1,1157)	1:172:A:ASP:HA	1:172:A:ASP:HB3	14	0.18
(1,1157)	1:172:A:ASP:HA	1:172:A:ASP:HB3	16	0.18
(1,1157)	1:172:A:ASP:HA	1:172:A:ASP:HB3	17	0.18
(1,1157)	1:172:A:ASP:HA	1:172:A:ASP:HB3	18	0.18
(1,1157)	1:172:A:ASP:HA	1:172:A:ASP:HB3	19	0.18
(1,1157)	1:172:A:ASP:HA	1:172:A:ASP:HB3	20	0.18
(1,1125)	1:87:A:ILE:H	1:87:A:ILE:HG12	14	0.18
(1,1121)	1:87:A:ILE:H	1:86:A:ARG:HB2	15	0.18
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	12	0.18
(1,1118)	1:95:A:ASN:H	1:95:A:ASN:HB3	18	0.18
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD11	13	0.18
(1,1102)	1:93:A:GLU:H	1:93:A:GLU:HG3	7	0.18
(1,1098)	1:150:A:GLU:H	1:149:A:ASN:HA	10	0.18
(1,1062)	1:97:A:PHE:HE1	1:91:A:LEU:HB3	16	0.18
(1,1058)	1:26:A:HIS:HD2	1:72:A:VAL:HG13	14	0.18
(1,1049)	1:97:A:PHE:HD1	1:91:A:LEU:HG	2	0.18
(1,1049)	1:97:A:PHE:HD1	1:91:A:LEU:HG	11	0.18
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	17	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1019)	1:155:A:LYS:HE3	1:155:A:LYS:HG2	6	0.18
(1,1019)	1:155:A:LYS:HE3	1:155:A:LYS:HG2	15	0.18
(1,1014)	1:166:A:ALA:HB3	1:134:A:THR:HG23	7	0.18
(1,993)	1:18:A:MET:HA	1:19:A:PRO:HD2	2	0.18
(1,985)	1:47:A:GLN:HB3	1:47:A:GLN:HG2	11	0.18
(1,985)	1:47:A:GLN:HB3	1:47:A:GLN:HG2	12	0.18
(1,985)	1:47:A:GLN:HB3	1:47:A:GLN:HG2	15	0.18
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	1	0.18
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	3	0.18
(1,945)	1:139:A:VAL:HG12	1:141:A:PRO:HD3	16	0.18
(1,934)	1:111:A:VAL:HG12	1:111:A:VAL:HB	1	0.18
(1,934)	1:111:A:VAL:HG12	1:111:A:VAL:HB	11	0.18
(1,934)	1:111:A:VAL:HG13	1:111:A:VAL:HB	12	0.18
(1,934)	1:111:A:VAL:HG12	1:111:A:VAL:HB	16	0.18
(1,934)	1:111:A:VAL:HG11	1:111:A:VAL:HB	20	0.18
(1,922)	1:88:A:TYR:HB2	1:103:A:VAL:HG23	1	0.18
(1,918)	1:102:A:GLU:HA	1:102:A:GLU:HG2	7	0.18
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	14	0.18
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	17	0.18
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	18	0.18
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	8	0.18
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD3	13	0.18
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD3	19	0.18
(1,899)	1:72:A:VAL:HG12	1:72:A:VAL:HB	5	0.18
(1,899)	1:72:A:VAL:HG11	1:72:A:VAL:HB	13	0.18
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	15	0.18
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	16	0.18
(1,860)	1:78:A:GLU:HG2	1:78:A:GLU:HB3	20	0.18
(1,852)	1:174:A:LEU:HD12	1:174:A:LEU:HD22	9	0.18
(1,852)	1:174:A:LEU:HD12	1:174:A:LEU:HD21	16	0.18
(1,849)	1:34:A:VAL:HG13	1:69:A:ARG:HB3	15	0.18
(1,837)	1:141:A:PRO:HD2	1:140:A:VAL:HA	2	0.18
(1,835)	1:42:A:GLY:HA2	1:45:A:ILE:HG21	5	0.18
(1,826)	1:91:A:LEU:HD23	1:105:A:LEU:HD12	2	0.18
(1,823)	1:29:A:ILE:HG22	1:30:A:PRO:HD3	4	0.18
(1,823)	1:29:A:ILE:HG21	1:30:A:PRO:HD3	7	0.18
(1,812)	1:174:A:LEU:HD11	1:111:A:VAL:HG23	10	0.18
(1,812)	1:174:A:LEU:HD12	1:111:A:VAL:HG23	20	0.18
(1,808)	1:71:A:VAL:HG23	1:71:A:VAL:HB	6	0.18
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	2	0.18
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	6	0.18
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	13	0.18
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	19	0.18
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	8	0.18
(1,804)	1:50:A:ARG:HD2	1:50:A:ARG:HG3	18	0.18
(1,802)	1:50:A:ARG:HD2	1:50:A:ARG:HB2	19	0.18
(1,784)	1:34:A:VAL:HG13	1:58:A:ILE:HD12	5	0.18
(1,782)	1:105:A:LEU:HD13	1:105:A:LEU:HB3	7	0.18
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG23	20	0.18
(1,745)	1:145:A:THR:HG21	1:146:A:PRO:HD3	2	0.18
(1,733)	1:153:A:ILE:HD11	1:153:A:ILE:HG12	6	0.18
(1,733)	1:153:A:ILE:HD11	1:153:A:ILE:HG12	7	0.18
(1,733)	1:153:A:ILE:HD13	1:153:A:ILE:HG12	11	0.18
(1,733)	1:153:A:ILE:HD11	1:153:A:ILE:HG12	16	0.18
(1,733)	1:153:A:ILE:HD12	1:153:A:ILE:HG12	18	0.18
(1,731)	1:153:A:ILE:HG23	1:153:A:ILE:HD11	2	0.18
(1,731)	1:153:A:ILE:HG22	1:153:A:ILE:HD12	7	0.18
(1,692)	1:115:A:ALA:HB2	1:111:A:VAL:HG22	19	0.18
(1,685)	1:116:A:ALA:HB2	1:140:A:VAL:HG13	16	0.18
(1,685)	1:116:A:ALA:HB2	1:140:A:VAL:HG12	19	0.18
(1,672)	1:45:A:ILE:HG13	1:45:A:ILE:HD13	1	0.18
(1,657)	1:133:A:LEU:HB3	1:133:A:LEU:HD13	10	0.18
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG12	1	0.18
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG11	3	0.18
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG13	7	0.18
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG13	10	0.18
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD11	15	0.18
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD12	19	0.18
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG12	1	0.18
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG11	8	0.18
(1,622)	1:148:A:GLU:HG3	1:149:A:ASN:HA	12	0.18
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	3	0.18
(1,608)	1:174:A:LEU:HD13	1:112:A:PRO:HD3	9	0.18
(1,608)	1:174:A:LEU:HD13	1:112:A:PRO:HD3	16	0.18
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG22	3	0.18
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG22	12	0.18
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	13	0.18
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	15	0.18
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	17	0.18
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	18	0.18
(1,575)	1:36:A:ALA:HA	1:36:A:ALA:HB3	8	0.18
(1,575)	1:36:A:ALA:HA	1:36:A:ALA:HB2	18	0.18
(1,574)	1:175:A:ALA:HA	1:175:A:ALA:HB2	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	12	0.18
(1,546)	1:55:A:SER:HA	1:55:A:SER:HB2	20	0.18
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG23	1	0.18
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	9	0.18
(1,489)	1:100:A:LYS:HG2	1:100:A:LYS:HB3	5	0.18
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	17	0.18
(1,449)	1:71:A:VAL:H	1:71:A:VAL:HG23	13	0.18
(1,448)	1:158:A:GLY:HA3	1:156:A:ILE:HG22	18	0.18
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	6	0.18
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	14	0.18
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	18	0.18
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	19	0.18
(1,425)	1:86:A:ARG:HA	1:86:A:ARG:HG2	1	0.18
(1,425)	1:86:A:ARG:HA	1:86:A:ARG:HG2	4	0.18
(1,425)	1:86:A:ARG:HA	1:86:A:ARG:HG2	20	0.18
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	4	0.18
(1,416)	1:27:A:VAL:HG23	1:27:A:VAL:HG12	14	0.18
(1,382)	1:101:A:GLU:HG2	1:101:A:GLU:HB2	18	0.18
(1,378)	1:57:A:LYS:H	1:57:A:LYS:HG3	12	0.18
(1,378)	1:57:A:LYS:H	1:57:A:LYS:HG3	13	0.18
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD11	5	0.18
(1,360)	1:71:A:VAL:HA	1:71:A:VAL:HB	14	0.18
(1,352)	1:59:A:ALA:HB1	1:60:A:PRO:HD3	9	0.18
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB2	9	0.18
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	12	0.18
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	14	0.18
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	15	0.18
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	18	0.18
(1,257)	1:97:A:PHE:H	1:97:A:PHE:HB2	3	0.18
(1,257)	1:97:A:PHE:H	1:97:A:PHE:HB2	6	0.18
(1,257)	1:97:A:PHE:H	1:97:A:PHE:HB2	7	0.18
(1,257)	1:97:A:PHE:H	1:97:A:PHE:HB2	8	0.18
(1,257)	1:97:A:PHE:H	1:97:A:PHE:HB2	9	0.18
(1,245)	1:21:A:GLU:HA	1:21:A:GLU:HG2	9	0.18
(1,245)	1:21:A:GLU:HA	1:21:A:GLU:HG2	14	0.18
(1,245)	1:21:A:GLU:HA	1:21:A:GLU:HG2	17	0.18
(1,222)	1:38:A:ILE:HG22	1:38:A:ILE:HD11	14	0.18
(1,183)	1:22:A:GLN:HB2	1:22:A:GLN:HG3	1	0.18
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	9	0.18
(1,172)	1:168:A:ARG:HA	1:168:A:ARG:HB2	6	0.18
(1,172)	1:168:A:ARG:HA	1:168:A:ARG:HB2	7	0.18
(1,172)	1:168:A:ARG:HA	1:168:A:ARG:HB2	15	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,172)	1:168:A:ARG:HA	1:168:A:ARG:HB2	17	0.18
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	13	0.18
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	19	0.18
(1,125)	1:112:A:PRO:HD3	1:174:A:LEU:HD22	15	0.18
(1,125)	1:112:A:PRO:HD3	1:174:A:LEU:HD23	17	0.18
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	1	0.18
(1,122)	1:99:A:PRO:HD2	1:99:A:PRO:HG2	10	0.18
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	18	0.18
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	20	0.18
(1,112)	1:45:A:ILE:HA	1:45:A:ILE:HG13	3	0.18
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	17	0.18
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD13	8	0.18
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG21	10	0.18
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	9	0.17
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	13	0.17
(1,2465)	1:120:A:ILE:HG21	2:4:B:G:H5'	20	0.17
(1,2465)	1:120:A:ILE:HG22	2:4:B:G:H5'	20	0.17
(1,2465)	1:120:A:ILE:HG23	2:4:B:G:H5'	20	0.17
(1,2460)	1:122:A:LYS:HG2	2:2:B:C:H5"	12	0.17
(1,2460)	1:122:A:LYS:HG2	2:2:B:C:H5'	12	0.17
(1,2441)	2:1:B:U:H5	2:1:B:U:H3'	18	0.17
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	15	0.17
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	9	0.17
(1,2406)	1:179:A:GLN:H	1:180:A:GLN:H	13	0.17
(1,2404)	1:177:A:VAL:H	1:178:A:LYS:H	16	0.17
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	3	0.17
(1,2392)	1:165:A:MET:H	1:166:A:ALA:H	16	0.17
(1,2369)	1:28:A:PHE:HA	1:70:A:MET:HA	3	0.17
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	3	0.17
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	19	0.17
(1,2347)	1:127:A:VAL:HG11	2:5:B:6MZ:H1'	4	0.17
(1,2347)	1:127:A:VAL:HG12	2:5:B:6MZ:H1'	4	0.17
(1,2347)	1:127:A:VAL:HG13	2:5:B:6MZ:H1'	4	0.17
(1,2347)	1:127:A:VAL:HG11	2:5:B:6MZ:H1'	9	0.17
(1,2347)	1:127:A:VAL:HG12	2:5:B:6MZ:H1'	9	0.17
(1,2347)	1:127:A:VAL:HG13	2:5:B:6MZ:H1'	9	0.17
(1,2341)	1:118:A:ARG:HB2	2:2:B:C:H5	11	0.17
(1,2341)	1:118:A:ARG:HB3	2:2:B:C:H5	11	0.17
(1,2341)	1:118:A:ARG:HB2	2:2:B:C:H5	14	0.17
(1,2341)	1:118:A:ARG:HB3	2:2:B:C:H5	14	0.17
(1,2339)	1:120:A:ILE:HG21	2:5:B:6MZ:H1'	13	0.17
(1,2339)	1:120:A:ILE:HG22	2:5:B:6MZ:H1'	13	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2339)	1:120:A:ILE:HG23	2:5:B:6MZ:H1'	13	0.17
(1,2334)	2:4:B:G:H3'	2:4:B:G:H8	9	0.17
(1,2331)	2:3:B:G:H8	2:3:B:G:H2'	8	0.17
(1,2331)	2:3:B:G:H8	2:3:B:G:H2'	20	0.17
(1,2315)	2:2:B:C:H2'	2:3:B:G:H8	10	0.17
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	12	0.17
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	17	0.17
(1,2281)	1:50:A:ARG:H	1:49:A:SER:HB2	1	0.17
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	1	0.17
(1,2248)	1:149:A:ASN:HD22	1:149:A:ASN:H	12	0.17
(1,2248)	1:149:A:ASN:HD22	1:149:A:ASN:H	13	0.17
(1,2248)	1:149:A:ASN:HD22	1:149:A:ASN:H	19	0.17
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	3	0.17
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	7	0.17
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	8	0.17
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG22	10	0.17
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	20	0.17
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG12	4	0.17
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG11	9	0.17
(1,2194)	1:150:A:GLU:H	1:151:A:GLN:HG3	11	0.17
(1,2194)	1:150:A:GLU:H	1:151:A:GLN:HG3	12	0.17
(1,2194)	1:150:A:GLU:H	1:151:A:GLN:HG3	13	0.17
(1,2194)	1:150:A:GLU:H	1:151:A:GLN:HG3	15	0.17
(1,2194)	1:150:A:GLU:H	1:151:A:GLN:HG3	18	0.17
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	13	0.17
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	6	0.17
(1,2116)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	2	0.17
(1,2116)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	7	0.17
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	2	0.17
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	7	0.17
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	10	0.17
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	14	0.17
(1,2097)	1:96:A:PHE:H	1:94:A:GLU:HB2	17	0.17
(1,2055)	1:92:A:LYS:H	1:92:A:LYS:HB3	4	0.17
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	4	0.17
(1,2023)	1:70:A:MET:H	1:70:A:MET:HB2	15	0.17
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG22	11	0.17
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG21	12	0.17
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	18	0.17
(1,1965)	1:108:A:HIS:H	1:109:A:ILE:HG23	4	0.17
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	9	0.17
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	13	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	6	0.17
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	16	0.17
(1,1920)	1:55:A:SER:H	1:56:A:ILE:H	15	0.17
(1,1920)	1:55:A:SER:H	1:56:A:ILE:H	17	0.17
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	5	0.17
(1,1903)	1:170:A:ILE:H	1:168:A:ARG:HA	13	0.17
(1,1902)	1:69:A:ARG:H	1:28:A:PHE:HA	12	0.17
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	4	0.17
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	7	0.17
(1,1896)	1:154:A:VAL:H	1:109:A:ILE:HG12	5	0.17
(1,1896)	1:154:A:VAL:H	1:109:A:ILE:HG12	14	0.17
(1,1893)	1:23:A:GLU:H	1:74:A:THR:HG21	17	0.17
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	14	0.17
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	18	0.17
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	12	0.17
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	14	0.17
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	2	0.17
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	9	0.17
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB1	14	0.17
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB1	16	0.17
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	11	0.17
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	12	0.17
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	13	0.17
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	14	0.17
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	15	0.17
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	17	0.17
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	18	0.17
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	19	0.17
(1,1814)	1:32:A:GLN:HE22	1:32:A:GLN:HG2	20	0.17
(1,1802)	1:23:A:GLU:H	1:23:A:GLU:HB2	10	0.17
(1,1802)	1:23:A:GLU:H	1:23:A:GLU:HB2	16	0.17
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	10	0.17
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	19	0.17
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	20	0.17
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	14	0.17
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	10	0.17
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	9	0.17
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	19	0.17
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	4	0.17
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	7	0.17
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	15	0.17
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	16	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1688)	1:34:A:VAL:H	1:33:A:ALA:HB2	1	0.17
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	14	0.17
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	15	0.17
(1,1608)	1:103:A:VAL:H	1:102:A:GLU:HG2	2	0.17
(1,1579)	1:32:A:GLN:HG2	1:96:A:PHE:HD1	11	0.17
(1,1579)	1:32:A:GLN:HG2	1:96:A:PHE:HD1	15	0.17
(1,1576)	1:29:A:ILE:HD13	1:33:A:ALA:HB1	14	0.17
(1,1575)	1:168:A:ARG:HA	1:171:A:ARG:HG3	18	0.17
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	9	0.17
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG21	12	0.17
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	2	0.17
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	9	0.17
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	4	0.17
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	10	0.17
(1,1514)	1:139:A:VAL:H	1:139:A:VAL:HG23	7	0.17
(1,1514)	1:139:A:VAL:H	1:139:A:VAL:HG22	9	0.17
(1,1487)	1:38:A:ILE:HD11	1:58:A:ILE:H	15	0.17
(1,1487)	1:38:A:ILE:HD13	1:58:A:ILE:H	17	0.17
(1,1470)	1:161:A:TYR:HB3	1:162:A:ALA:H	16	0.17
(1,1444)	1:106:A:GLU:H	1:105:A:LEU:HB2	5	0.17
(1,1436)	1:130:A:LEU:H	1:130:A:LEU:HD21	7	0.17
(1,1431)	1:119:A:VAL:HA	1:174:A:LEU:HG	13	0.17
(1,1428)	1:89:A:GLY:H	1:86:A:ARG:HA	4	0.17
(1,1425)	1:56:A:ILE:HD11	1:56:A:ILE:HG12	12	0.17
(1,1397)	1:91:A:LEU:HA	1:91:A:LEU:HD22	11	0.17
(1,1396)	1:91:A:LEU:HD22	1:30:A:PRO:HD3	13	0.17
(1,1356)	1:54:A:ALA:H	1:53:A:SER:HB3	11	0.17
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	1	0.17
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	2	0.17
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	4	0.17
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	5	0.17
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	6	0.17
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	7	0.17
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	8	0.17
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	9	0.17
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	10	0.17
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	11	0.17
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	16	0.17
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	17	0.17
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	19	0.17
(1,1312)	1:119:A:VAL:HA	1:126:A:THR:HG22	16	0.17
(1,1312)	1:119:A:VAL:HA	1:126:A:THR:HG23	20	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1300)	1:105:A:LEU:HD11	1:29:A:ILE:HG21	7	0.17
(1,1298)	1:105:A:LEU:HG	1:30:A:PRO:HD3	3	0.17
(1,1298)	1:105:A:LEU:HG	1:30:A:PRO:HD3	8	0.17
(1,1293)	1:57:A:LYS:HB3	1:72:A:VAL:HB	7	0.17
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD12	13	0.17
(1,1277)	1:169:A:LYS:HB2	1:130:A:LEU:HD13	11	0.17
(1,1271)	1:94:A:GLU:HB3	1:96:A:PHE:HZ	14	0.17
(1,1249)	1:34:A:VAL:HA	1:58:A:ILE:HD13	13	0.17
(1,1244)	1:91:A:LEU:HD13	1:91:A:LEU:HB2	20	0.17
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	20	0.17
(1,1173)	1:45:A:ILE:HA	1:45:A:ILE:HG12	16	0.17
(1,1158)	1:143:A:ASP:HA	1:143:A:ASP:HB2	5	0.17
(1,1158)	1:143:A:ASP:HA	1:143:A:ASP:HB2	7	0.17
(1,1158)	1:143:A:ASP:HA	1:143:A:ASP:HB2	15	0.17
(1,1158)	1:143:A:ASP:HA	1:143:A:ASP:HB2	16	0.17
(1,1158)	1:143:A:ASP:HA	1:143:A:ASP:HB2	17	0.17
(1,1157)	1:172:A:ASP:HA	1:172:A:ASP:HB3	7	0.17
(1,1142)	1:105:A:LEU:HA	1:105:A:LEU:HG	18	0.17
(1,1121)	1:87:A:ILE:H	1:86:A:ARG:HB2	19	0.17
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD13	10	0.17
(1,1102)	1:93:A:GLU:H	1:93:A:GLU:HG3	8	0.17
(1,1098)	1:150:A:GLU:H	1:149:A:ASN:HA	6	0.17
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD12	19	0.17
(1,1064)	1:97:A:PHE:HE1	1:91:A:LEU:HD12	4	0.17
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	14	0.17
(1,1029)	1:28:A:PHE:HD1	1:106:A:GLU:HG2	8	0.17
(1,1019)	1:155:A:LYS:HE3	1:155:A:LYS:HG2	5	0.17
(1,1019)	1:155:A:LYS:HE3	1:155:A:LYS:HG2	7	0.17
(1,1019)	1:155:A:LYS:HE3	1:155:A:LYS:HG2	12	0.17
(1,1019)	1:155:A:LYS:HE3	1:155:A:LYS:HG2	17	0.17
(1,1019)	1:155:A:LYS:HE3	1:155:A:LYS:HG2	18	0.17
(1,1016)	1:126:A:THR:HG21	1:173:A:ILE:HD11	9	0.17
(1,998)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	11	0.17
(1,998)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	15	0.17
(1,998)	1:104:A:LYS:HE2	1:157:A:ILE:HG21	18	0.17
(1,991)	1:142:A:ARG:HD2	1:142:A:ARG:HA	10	0.17
(1,985)	1:47:A:GLN:HB3	1:47:A:GLN:HG2	17	0.17
(1,981)	1:48:A:LEU:HD23	1:48:A:LEU:HD12	3	0.17
(1,971)	1:52:A:ALA:HB3	1:56:A:ILE:HD12	19	0.17
(1,970)	1:33:A:ALA:HA	1:96:A:PHE:HE1	8	0.17
(1,945)	1:139:A:VAL:HG12	1:141:A:PRO:HD3	2	0.17
(1,934)	1:111:A:VAL:HG11	1:111:A:VAL:HB	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,922)	1:88:A:TYR:HB2	1:103:A:VAL:HG23	4	0.17
(1,922)	1:88:A:TYR:HB2	1:103:A:VAL:HG22	7	0.17
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	4	0.17
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	12	0.17
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	13	0.17
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	20	0.17
(1,899)	1:72:A:VAL:HG13	1:72:A:VAL:HB	15	0.17
(1,899)	1:72:A:VAL:HG11	1:72:A:VAL:HB	17	0.17
(1,899)	1:72:A:VAL:HG13	1:72:A:VAL:HB	20	0.17
(1,865)	1:116:A:ALA:HB1	1:140:A:VAL:HB	6	0.17
(1,855)	1:25:A:VAL:HG22	1:25:A:VAL:HB	1	0.17
(1,852)	1:174:A:LEU:HD11	1:174:A:LEU:HD23	11	0.17
(1,852)	1:174:A:LEU:HD12	1:174:A:LEU:HD22	20	0.17
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG23	6	0.17
(1,833)	1:37:A:ILE:HD12	1:87:A:ILE:HA	8	0.17
(1,832)	1:28:A:PHE:HB3	1:106:A:GLU:HB2	16	0.17
(1,823)	1:29:A:ILE:HG21	1:30:A:PRO:HD3	5	0.17
(1,812)	1:174:A:LEU:HD11	1:111:A:VAL:HG22	3	0.17
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	4	0.17
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	16	0.17
(1,804)	1:50:A:ARG:HD2	1:50:A:ARG:HG3	2	0.17
(1,804)	1:50:A:ARG:HD2	1:50:A:ARG:HG3	19	0.17
(1,800)	1:67:A:LYS:HA	1:67:A:LYS:HG3	11	0.17
(1,798)	1:48:A:LEU:HD11	1:48:A:LEU:HB3	14	0.17
(1,782)	1:105:A:LEU:HD13	1:105:A:LEU:HB3	3	0.17
(1,782)	1:105:A:LEU:HD12	1:105:A:LEU:HB3	8	0.17
(1,772)	1:156:A:ILE:HD11	1:167:A:GLN:HA	3	0.17
(1,771)	1:156:A:ILE:HD11	1:163:A:SER:HA	5	0.17
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG23	3	0.17
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG22	13	0.17
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG22	14	0.17
(1,745)	1:145:A:THR:HG21	1:146:A:PRO:HD3	7	0.17
(1,745)	1:145:A:THR:HG21	1:146:A:PRO:HD3	8	0.17
(1,734)	1:153:A:ILE:HD13	1:153:A:ILE:HB	17	0.17
(1,733)	1:153:A:ILE:HD12	1:153:A:ILE:HG12	1	0.17
(1,733)	1:153:A:ILE:HD13	1:153:A:ILE:HG12	2	0.17
(1,733)	1:153:A:ILE:HD13	1:153:A:ILE:HG12	5	0.17
(1,733)	1:153:A:ILE:HD13	1:153:A:ILE:HG12	8	0.17
(1,733)	1:153:A:ILE:HD11	1:153:A:ILE:HG12	19	0.17
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	1	0.17
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG11	4	0.17
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG12	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG12	9	0.17
(1,630)	1:68:A:VAL:HB	1:68:A:VAL:HG12	6	0.17
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	1	0.17
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	13	0.17
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	16	0.17
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	17	0.17
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	19	0.17
(1,608)	1:174:A:LEU:HD13	1:112:A:PRO:HD3	13	0.17
(1,608)	1:174:A:LEU:HD11	1:112:A:PRO:HD3	14	0.17
(1,608)	1:174:A:LEU:HD12	1:112:A:PRO:HD3	18	0.17
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG23	11	0.17
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG21	2	0.17
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG22	5	0.17
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG22	11	0.17
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG21	20	0.17
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	11	0.17
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	14	0.17
(1,575)	1:36:A:ALA:HA	1:36:A:ALA:HB1	7	0.17
(1,571)	1:86:A:ARG:HA	1:86:A:ARG:HB2	5	0.17
(1,565)	1:92:A:LYS:HA	1:92:A:LYS:HG2	19	0.17
(1,562)	1:63:A:THR:HB	1:63:A:THR:HG23	6	0.17
(1,562)	1:63:A:THR:HB	1:63:A:THR:HG22	8	0.17
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG22	12	0.17
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG22	7	0.17
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG21	18	0.17
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	10	0.17
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	6	0.17
(1,489)	1:100:A:LYS:HG2	1:100:A:LYS:HB3	9	0.17
(1,489)	1:100:A:LYS:HG2	1:100:A:LYS:HB3	14	0.17
(1,489)	1:100:A:LYS:HG2	1:100:A:LYS:HB3	16	0.17
(1,489)	1:100:A:LYS:HG2	1:100:A:LYS:HB3	19	0.17
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	1	0.17
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	3	0.17
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	10	0.17
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	6	0.17
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	10	0.17
(1,451)	1:166:A:ALA:HB2	1:134:A:THR:HB	1	0.17
(1,451)	1:166:A:ALA:HB2	1:134:A:THR:HB	20	0.17
(1,437)	1:130:A:LEU:HA	1:130:A:LEU:HD21	3	0.17
(1,433)	1:90:A:LYS:HA	1:90:A:LYS:HD3	2	0.17
(1,431)	1:139:A:VAL:H	1:139:A:VAL:HG22	12	0.17
(1,425)	1:86:A:ARG:HA	1:86:A:ARG:HG2	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,425)	1:86:A:ARG:HA	1:86:A:ARG:HG2	16	0.17
(1,425)	1:86:A:ARG:HA	1:86:A:ARG:HG2	19	0.17
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	5	0.17
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	6	0.17
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	13	0.17
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	19	0.17
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB1	2	0.17
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB2	11	0.17
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB3	16	0.17
(1,378)	1:57:A:LYS:H	1:57:A:LYS:HG3	11	0.17
(1,378)	1:57:A:LYS:H	1:57:A:LYS:HG3	17	0.17
(1,378)	1:57:A:LYS:H	1:57:A:LYS:HG3	18	0.17
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	1	0.17
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	5	0.17
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD12	2	0.17
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD11	8	0.17
(1,352)	1:59:A:ALA:HB3	1:60:A:PRO:HD3	1	0.17
(1,352)	1:59:A:ALA:HB2	1:60:A:PRO:HD3	8	0.17
(1,352)	1:59:A:ALA:HB3	1:60:A:PRO:HD3	10	0.17
(1,351)	1:59:A:ALA:HB1	1:60:A:PRO:HD2	5	0.17
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB2	4	0.17
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	7	0.17
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	9	0.17
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	14	0.17
(1,285)	1:97:A:PHE:HD1	1:103:A:VAL:HG12	1	0.17
(1,274)	1:90:A:LYS:HA	1:90:A:LYS:HB2	18	0.17
(1,274)	1:90:A:LYS:HA	1:90:A:LYS:HB2	20	0.17
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	5	0.17
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	6	0.17
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	8	0.17
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	11	0.17
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	13	0.17
(1,257)	1:97:A:PHE:H	1:97:A:PHE:HB2	4	0.17
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	3	0.17
(1,245)	1:21:A:GLU:HA	1:21:A:GLU:HG2	6	0.17
(1,245)	1:21:A:GLU:HA	1:21:A:GLU:HG2	8	0.17
(1,245)	1:21:A:GLU:HA	1:21:A:GLU:HG2	10	0.17
(1,245)	1:21:A:GLU:HA	1:21:A:GLU:HG2	18	0.17
(1,238)	1:48:A:LEU:HD23	1:83:A:ALA:HB2	8	0.17
(1,236)	1:174:A:LEU:HD23	1:115:A:ALA:HB1	3	0.17
(1,236)	1:174:A:LEU:HD21	1:115:A:ALA:HB1	7	0.17
(1,222)	1:38:A:ILE:HG21	1:38:A:ILE:HD13	13	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,222)	1:38:A:ILE:HG22	1:38:A:ILE:HD13	15	0.17
(1,222)	1:38:A:ILE:HG23	1:38:A:ILE:HD12	17	0.17
(1,209)	1:52:A:ALA:HB3	1:54:A:ALA:HB2	15	0.17
(1,172)	1:168:A:ARG:HA	1:168:A:ARG:HB2	5	0.17
(1,172)	1:168:A:ARG:HA	1:168:A:ARG:HB2	9	0.17
(1,172)	1:168:A:ARG:HA	1:168:A:ARG:HB2	10	0.17
(1,172)	1:168:A:ARG:HA	1:168:A:ARG:HB2	20	0.17
(1,168)	1:173:A:ILE:HB	1:170:A:ILE:HA	1	0.17
(1,164)	1:73:A:ILE:HB	1:84:A:GLN:HG2	18	0.17
(1,140)	1:62:A:GLU:HA	1:62:A:GLU:HG2	3	0.17
(1,125)	1:112:A:PRO:HD3	1:174:A:LEU:HD21	5	0.17
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	14	0.17
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	15	0.17
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	17	0.17
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	7	0.17
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	11	0.17
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	12	0.17
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	14	0.17
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	20	0.17
(1,112)	1:45:A:ILE:HA	1:45:A:ILE:HG13	7	0.17
(1,112)	1:45:A:ILE:HA	1:45:A:ILE:HG13	8	0.17
(1,112)	1:45:A:ILE:HA	1:45:A:ILE:HG13	9	0.17
(1,112)	1:45:A:ILE:HA	1:45:A:ILE:HG13	10	0.17
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	5	0.17
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	10	0.17
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	4	0.17
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	14	0.17
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	18	0.17
(1,41)	1:51:A:PHE:HE1	1:86:A:ARG:HD2	5	0.17
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD13	4	0.17
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD11	12	0.17
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD11	16	0.17
(1,2460)	1:122:A:LYS:HG2	2:2:B:C:H5”	11	0.16
(1,2460)	1:122:A:LYS:HG2	2:2:B:C:H5’	11	0.16
(1,2460)	1:122:A:LYS:HG2	2:2:B:C:H5”	20	0.16
(1,2460)	1:122:A:LYS:HG2	2:2:B:C:H5’	20	0.16
(1,2455)	1:118:A:ARG:HD3	2:1:B:U:H1’	3	0.16
(1,2455)	1:118:A:ARG:HD3	2:1:B:U:H1’	14	0.16
(1,2446)	2:7:B:U:H5	2:7:B:U:H2’	6	0.16
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	6	0.16
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	6	0.16
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	10	0.16
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	18	0.16
(1,2406)	1:179:A:GLN:H	1:180:A:GLN:H	5	0.16
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	20	0.16
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	7	0.16
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	12	0.16
(1,2402)	1:175:A:ALA:H	1:176:A:GLN:H	20	0.16
(1,2392)	1:165:A:MET:H	1:166:A:ALA:H	13	0.16
(1,2344)	2:2:B:C:H6	2:1:B:U:H3'	5	0.16
(1,2341)	1:118:A:ARG:HB2	2:2:B:C:H5	3	0.16
(1,2341)	1:118:A:ARG:HB3	2:2:B:C:H5	3	0.16
(1,2341)	1:118:A:ARG:HB2	2:2:B:C:H5	12	0.16
(1,2341)	1:118:A:ARG:HB3	2:2:B:C:H5	12	0.16
(1,2341)	1:118:A:ARG:HB2	2:2:B:C:H5	20	0.16
(1,2341)	1:118:A:ARG:HB3	2:2:B:C:H5	20	0.16
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	16	0.16
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	20	0.16
(1,2331)	2:3:B:G:H8	2:3:B:G:H2'	1	0.16
(1,2331)	2:3:B:G:H8	2:3:B:G:H2'	13	0.16
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	8	0.16
(1,2280)	1:154:A:VAL:H	1:155:A:LYS:HE2	5	0.16
(1,2270)	1:84:A:GLN:HE21	1:84:A:GLN:HB3	2	0.16
(1,2270)	1:84:A:GLN:HE21	1:84:A:GLN:HB3	16	0.16
(1,2239)	1:25:A:VAL:H	1:80:A:GLN:HB3	6	0.16
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG22	2	0.16
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	17	0.16
(1,2219)	1:158:A:GLY:H	1:136:A:ALA:HA	12	0.16
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG11	14	0.16
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG11	18	0.16
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG11	20	0.16
(1,2209)	1:119:A:VAL:H	1:116:A:ALA:HA	3	0.16
(1,2194)	1:150:A:GLU:H	1:151:A:GLN:HG3	17	0.16
(1,2167)	1:80:A:GLN:HE21	1:80:A:GLN:HB2	19	0.16
(1,2124)	1:158:A:GLY:H	1:105:A:LEU:H	11	0.16
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	18	0.16
(1,2116)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	10	0.16
(1,2116)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	11	0.16
(1,2116)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	14	0.16
(1,2116)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	17	0.16
(1,2116)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	20	0.16
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	6	0.16
(1,2100)	1:66:A:SER:H	1:65:A:ASP:HB2	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	18	0.16
(1,2023)	1:70:A:MET:H	1:70:A:MET:HB2	19	0.16
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG22	9	0.16
(1,1995)	1:104:A:LYS:H	1:103:A:VAL:HG22	14	0.16
(1,1994)	1:104:A:LYS:H	1:103:A:VAL:HG13	8	0.16
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	6	0.16
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	8	0.16
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	14	0.16
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	17	0.16
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	7	0.16
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	20	0.16
(1,1942)	1:45:A:ILE:H	1:38:A:ILE:HA	19	0.16
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	1	0.16
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	10	0.16
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	8	0.16
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	10	0.16
(1,1896)	1:154:A:VAL:H	1:109:A:ILE:HG12	19	0.16
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB3	2	0.16
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB3	4	0.16
(1,1858)	1:139:A:VAL:H	1:138:A:VAL:HG11	9	0.16
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	5	0.16
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	13	0.16
(1,1802)	1:23:A:GLU:H	1:23:A:GLU:HB2	1	0.16
(1,1802)	1:23:A:GLU:H	1:23:A:GLU:HB2	4	0.16
(1,1802)	1:23:A:GLU:H	1:23:A:GLU:HB2	7	0.16
(1,1802)	1:23:A:GLU:H	1:23:A:GLU:HB2	12	0.16
(1,1802)	1:23:A:GLU:H	1:23:A:GLU:HB2	20	0.16
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	4	0.16
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	5	0.16
(1,1776)	1:74:A:THR:H	1:73:A:ILE:HG22	16	0.16
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	10	0.16
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	18	0.16
(1,1729)	1:95:A:ASN:H	1:94:A:GLU:HA	4	0.16
(1,1729)	1:95:A:ASN:H	1:94:A:GLU:HA	16	0.16
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	6	0.16
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	11	0.16
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	17	0.16
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	5	0.16
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	12	0.16
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	14	0.16
(1,1684)	1:54:A:ALA:H	1:53:A:SER:HA	19	0.16
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1657)	1:93:A:GLU:H	1:93:A:GLU:HG2	1	0.16
(1,1628)	1:74:A:THR:H	1:56:A:ILE:HA	1	0.16
(1,1626)	1:71:A:VAL:H	1:71:A:VAL:HB	16	0.16
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD11	2	0.16
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	20	0.16
(1,1608)	1:103:A:VAL:H	1:102:A:GLU:HG2	19	0.16
(1,1601)	1:134:A:THR:HG22	1:165:A:MET:HG2	8	0.16
(1,1594)	1:27:A:VAL:H	1:71:A:VAL:HB	14	0.16
(1,1579)	1:32:A:GLN:HG2	1:96:A:PHE:HD1	13	0.16
(1,1579)	1:32:A:GLN:HG2	1:96:A:PHE:HD1	16	0.16
(1,1576)	1:29:A:ILE:HD12	1:33:A:ALA:HB1	20	0.16
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	17	0.16
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	18	0.16
(1,1568)	1:37:A:ILE:HG12	1:29:A:ILE:HD12	10	0.16
(1,1544)	1:173:A:ILE:HG21	1:119:A:VAL:HA	1	0.16
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG22	6	0.16
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	1	0.16
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	4	0.16
(1,1527)	1:102:A:GLU:HG2	1:102:A:GLU:HB2	6	0.16
(1,1518)	1:22:A:GLN:HB3	1:22:A:GLN:HG3	1	0.16
(1,1514)	1:139:A:VAL:H	1:139:A:VAL:HG22	20	0.16
(1,1510)	1:93:A:GLU:HG2	1:94:A:GLU:H	14	0.16
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	15	0.16
(1,1505)	1:90:A:LYS:HB2	1:87:A:ILE:HA	14	0.16
(1,1487)	1:38:A:ILE:HD11	1:58:A:ILE:H	2	0.16
(1,1487)	1:38:A:ILE:HD11	1:58:A:ILE:H	13	0.16
(1,1469)	1:161:A:TYR:H	1:161:A:TYR:HB3	3	0.16
(1,1451)	1:109:A:ILE:HD11	1:109:A:ILE:HG21	5	0.16
(1,1451)	1:109:A:ILE:HD12	1:109:A:ILE:HG23	8	0.16
(1,1441)	1:154:A:VAL:HG21	1:140:A:VAL:HA	16	0.16
(1,1425)	1:56:A:ILE:HD12	1:56:A:ILE:HG12	19	0.16
(1,1397)	1:91:A:LEU:HA	1:91:A:LEU:HD22	1	0.16
(1,1371)	1:68:A:VAL:HG23	1:69:A:ARG:H	2	0.16
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	3	0.16
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	12	0.16
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	13	0.16
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	14	0.16
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	15	0.16
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	18	0.16
(1,1355)	1:21:A:GLU:HB3	1:21:A:GLU:HB2	20	0.16
(1,1293)	1:57:A:LYS:HB3	1:72:A:VAL:HB	5	0.16
(1,1293)	1:57:A:LYS:HB3	1:72:A:VAL:HB	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1284)	1:29:A:ILE:HD13	1:30:A:PRO:HD2	2	0.16
(1,1282)	1:110:A:ARG:HA	1:153:A:ILE:HG21	19	0.16
(1,1258)	1:147:A:ASP:H	1:147:A:ASP:HB3	5	0.16
(1,1244)	1:91:A:LEU:HD12	1:91:A:LEU:HB2	16	0.16
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	11	0.16
(1,1216)	1:170:A:ILE:HB	1:170:A:ILE:HD13	8	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	1	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	2	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	3	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	4	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	5	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	6	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	7	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	8	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	9	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	10	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	11	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	12	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	13	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	14	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	15	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	16	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	17	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	18	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	19	0.16
(1,1187)	1:85:A:GLY:HA3	1:85:A:GLY:HA2	20	0.16
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	10	0.16
(1,1173)	1:45:A:ILE:HA	1:45:A:ILE:HG12	17	0.16
(1,1173)	1:45:A:ILE:HA	1:45:A:ILE:HG12	20	0.16
(1,1166)	1:70:A:MET:HA	1:70:A:MET:HG2	2	0.16
(1,1159)	1:143:A:ASP:HA	1:143:A:ASP:HB3	2	0.16
(1,1159)	1:143:A:ASP:HA	1:143:A:ASP:HB3	3	0.16
(1,1159)	1:143:A:ASP:HA	1:143:A:ASP:HB3	6	0.16
(1,1159)	1:143:A:ASP:HA	1:143:A:ASP:HB3	8	0.16
(1,1159)	1:143:A:ASP:HA	1:143:A:ASP:HB3	9	0.16
(1,1159)	1:143:A:ASP:HA	1:143:A:ASP:HB3	11	0.16
(1,1159)	1:143:A:ASP:HA	1:143:A:ASP:HB3	12	0.16
(1,1159)	1:143:A:ASP:HA	1:143:A:ASP:HB3	13	0.16
(1,1159)	1:143:A:ASP:HA	1:143:A:ASP:HB3	14	0.16
(1,1159)	1:143:A:ASP:HA	1:143:A:ASP:HB3	19	0.16
(1,1158)	1:143:A:ASP:HA	1:143:A:ASP:HB2	20	0.16
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD13	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD12	11	0.16
(1,1098)	1:150:A:GLU:H	1:149:A:ASN:HA	4	0.16
(1,1098)	1:150:A:GLU:H	1:149:A:ASN:HA	8	0.16
(1,1098)	1:150:A:GLU:H	1:149:A:ASN:HA	9	0.16
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	3	0.16
(1,1049)	1:97:A:PHE:HD1	1:91:A:LEU:HG	8	0.16
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	13	0.16
(1,1042)	1:96:A:PHE:HD1	1:94:A:GLU:HB3	16	0.16
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	14	0.16
(1,1019)	1:155:A:LYS:HE3	1:155:A:LYS:HG2	1	0.16
(1,1014)	1:166:A:ALA:HB2	1:134:A:THR:HG21	12	0.16
(1,998)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	7	0.16
(1,991)	1:142:A:ARG:HD2	1:142:A:ARG:HA	11	0.16
(1,977)	1:28:A:PHE:HA	1:68:A:VAL:HB	14	0.16
(1,945)	1:139:A:VAL:HG13	1:141:A:PRO:HD3	3	0.16
(1,945)	1:139:A:VAL:HG12	1:141:A:PRO:HD3	11	0.16
(1,934)	1:111:A:VAL:HG13	1:111:A:VAL:HB	10	0.16
(1,928)	1:27:A:VAL:HA	1:27:A:VAL:HG11	13	0.16
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	15	0.16
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	16	0.16
(1,910)	1:139:A:VAL:HG22	1:139:A:VAL:HB	12	0.16
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	4	0.16
(1,900)	1:90:A:LYS:HE2	1:36:A:ALA:HB1	12	0.16
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	5	0.16
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	10	0.16
(1,871)	1:136:A:ALA:HB3	1:162:A:ALA:HA	5	0.16
(1,852)	1:174:A:LEU:HD12	1:174:A:LEU:HD23	13	0.16
(1,849)	1:34:A:VAL:HG13	1:69:A:ARG:HB3	14	0.16
(1,849)	1:34:A:VAL:HG12	1:69:A:ARG:HB3	19	0.16
(1,837)	1:141:A:PRO:HD2	1:140:A:VAL:HA	16	0.16
(1,828)	1:91:A:LEU:HD22	1:91:A:LEU:HB2	10	0.16
(1,808)	1:71:A:VAL:HG23	1:71:A:VAL:HB	11	0.16
(1,808)	1:71:A:VAL:HG22	1:71:A:VAL:HB	14	0.16
(1,808)	1:71:A:VAL:HG22	1:71:A:VAL:HB	18	0.16
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	7	0.16
(1,807)	1:76:A:PRO:HB2	1:77:A:PRO:HG2	20	0.16
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	4	0.16
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	6	0.16
(1,804)	1:50:A:ARG:HD2	1:50:A:ARG:HG3	3	0.16
(1,804)	1:50:A:ARG:HD2	1:50:A:ARG:HG3	20	0.16
(1,799)	1:48:A:LEU:HD11	1:48:A:LEU:HB2	20	0.16
(1,784)	1:34:A:VAL:HG13	1:58:A:ILE:HD12	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,784)	1:34:A:VAL:HG13	1:58:A:ILE:HD13	4	0.16
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG13	9	0.16
(1,761)	1:135:A:ALA:HB2	1:135:A:ALA:HA	10	0.16
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG23	15	0.16
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG22	17	0.16
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG22	19	0.16
(1,734)	1:153:A:ILE:HD13	1:153:A:ILE:HB	16	0.16
(1,734)	1:153:A:ILE:HD11	1:153:A:ILE:HB	18	0.16
(1,734)	1:153:A:ILE:HD13	1:153:A:ILE:HB	20	0.16
(1,733)	1:153:A:ILE:HD11	1:153:A:ILE:HG12	3	0.16
(1,733)	1:153:A:ILE:HD12	1:153:A:ILE:HG12	12	0.16
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	6	0.16
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	8	0.16
(1,692)	1:115:A:ALA:HB3	1:111:A:VAL:HG22	12	0.16
(1,672)	1:45:A:ILE:HG13	1:45:A:ILE:HD13	2	0.16
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG12	8	0.16
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG11	16	0.16
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	2	0.16
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	4	0.16
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	11	0.16
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	14	0.16
(1,608)	1:174:A:LEU:HD12	1:112:A:PRO:HD3	15	0.16
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG21	9	0.16
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG22	12	0.16
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG21	14	0.16
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG22	18	0.16
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG23	20	0.16
(1,585)	1:22:A:GLN:HA	1:22:A:GLN:HG2	19	0.16
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	1	0.16
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	3	0.16
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	5	0.16
(1,571)	1:86:A:ARG:HA	1:86:A:ARG:HB2	10	0.16
(1,550)	1:58:A:ILE:HA	1:58:A:ILE:HD13	8	0.16
(1,550)	1:58:A:ILE:HA	1:58:A:ILE:HD11	16	0.16
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG22	3	0.16
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG22	4	0.16
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	6	0.16
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	11	0.16
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	12	0.16
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	19	0.16
(1,520)	1:127:A:VAL:HG12	1:137:A:GLU:HA	14	0.16
(1,520)	1:127:A:VAL:HG13	1:137:A:GLU:HA	18	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,508)	1:100:A:LYS:H	1:100:A:LYS:HA	10	0.16
(1,489)	1:100:A:LYS:HG2	1:100:A:LYS:HB3	4	0.16
(1,489)	1:100:A:LYS:HG2	1:100:A:LYS:HB3	10	0.16
(1,489)	1:100:A:LYS:HG2	1:100:A:LYS:HB3	18	0.16
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	18	0.16
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD13	13	0.16
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	7	0.16
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	13	0.16
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	20	0.16
(1,451)	1:166:A:ALA:HB1	1:134:A:THR:HB	11	0.16
(1,445)	1:56:A:ILE:HG13	1:48:A:LEU:HG	2	0.16
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	12	0.16
(1,416)	1:27:A:VAL:HG22	1:27:A:VAL:HG11	10	0.16
(1,409)	1:146:A:PRO:HB2	1:150:A:GLU:HA	5	0.16
(1,409)	1:146:A:PRO:HB2	1:150:A:GLU:HA	10	0.16
(1,403)	1:130:A:LEU:H	1:130:A:LEU:HB3	4	0.16
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB2	10	0.16
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB3	14	0.16
(1,399)	1:117:A:GLY:H	1:116:A:ALA:HB1	20	0.16
(1,392)	1:74:A:THR:H	1:73:A:ILE:HD12	1	0.16
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	10	0.16
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	13	0.16
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	14	0.16
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	19	0.16
(1,352)	1:59:A:ALA:HB3	1:60:A:PRO:HD3	3	0.16
(1,352)	1:59:A:ALA:HB1	1:60:A:PRO:HD3	4	0.16
(1,352)	1:59:A:ALA:HB2	1:60:A:PRO:HD3	7	0.16
(1,345)	1:177:A:VAL:H	1:177:A:VAL:HG13	15	0.16
(1,296)	1:138:A:VAL:HG11	1:138:A:VAL:HG23	5	0.16
(1,296)	1:138:A:VAL:HG13	1:138:A:VAL:HG21	9	0.16
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	4	0.16
(1,293)	1:131:A:GLN:HB2	1:131:A:GLN:HG3	12	0.16
(1,286)	1:45:A:ILE:HG13	1:56:A:ILE:HG22	16	0.16
(1,274)	1:90:A:LYS:HA	1:90:A:LYS:HB2	11	0.16
(1,274)	1:90:A:LYS:HA	1:90:A:LYS:HB2	12	0.16
(1,274)	1:90:A:LYS:HA	1:90:A:LYS:HB2	13	0.16
(1,274)	1:90:A:LYS:HA	1:90:A:LYS:HB2	14	0.16
(1,274)	1:90:A:LYS:HA	1:90:A:LYS:HB2	15	0.16
(1,269)	1:51:A:PHE:HD1	1:51:A:PHE:HB2	1	0.16
(1,269)	1:51:A:PHE:HD1	1:51:A:PHE:HB2	3	0.16
(1,269)	1:51:A:PHE:HD1	1:51:A:PHE:HB2	4	0.16
(1,257)	1:97:A:PHE:H	1:97:A:PHE:HB2	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	7	0.16
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	11	0.16
(1,245)	1:21:A:GLU:HA	1:21:A:GLU:HG2	3	0.16
(1,245)	1:21:A:GLU:HA	1:21:A:GLU:HG2	12	0.16
(1,222)	1:38:A:ILE:HG23	1:38:A:ILE:HD12	12	0.16
(1,222)	1:38:A:ILE:HG23	1:38:A:ILE:HD11	19	0.16
(1,222)	1:38:A:ILE:HG23	1:38:A:ILE:HD13	20	0.16
(1,215)	1:115:A:ALA:HB2	1:177:A:VAL:HG21	4	0.16
(1,215)	1:115:A:ALA:HB1	1:177:A:VAL:HG21	12	0.16
(1,215)	1:115:A:ALA:HB3	1:177:A:VAL:HG21	15	0.16
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD21	15	0.16
(1,174)	1:164:A:GLN:HG2	1:164:A:GLN:HA	13	0.16
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	8	0.16
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	16	0.16
(1,172)	1:168:A:ARG:HA	1:168:A:ARG:HB2	2	0.16
(1,172)	1:168:A:ARG:HA	1:168:A:ARG:HB2	14	0.16
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	7	0.16
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	14	0.16
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	15	0.16
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	17	0.16
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	1	0.16
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	5	0.16
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	6	0.16
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	8	0.16
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	12	0.16
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	15	0.16
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	17	0.16
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	18	0.16
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	10	0.16
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	4	0.16
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	8	0.16
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	9	0.16
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	17	0.16
(1,116)	1:80:A:GLN:HA	1:83:A:ALA:HB1	5	0.16
(1,116)	1:80:A:GLN:HA	1:83:A:ALA:HB1	6	0.16
(1,112)	1:45:A:ILE:HA	1:45:A:ILE:HG13	5	0.16
(1,84)	1:86:A:ARG:HA	1:86:A:ARG:HD2	1	0.16
(1,76)	1:67:A:LYS:HA	1:67:A:LYS:HB2	11	0.16
(1,76)	1:67:A:LYS:HA	1:67:A:LYS:HB2	15	0.16
(1,76)	1:67:A:LYS:HA	1:67:A:LYS:HB2	16	0.16
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	1	0.16
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	7	0.16
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	11	0.16
(1,55)	1:57:A:LYS:HA	1:57:A:LYS:HG2	20	0.16
(1,48)	1:56:A:ILE:HA	1:56:A:ILE:HG21	9	0.16
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD13	18	0.16
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD13	19	0.16
(1,25)	1:159:A:HIS:H	1:158:A:GLY:HA2	12	0.16
(1,23)	1:165:A:MET:H	1:162:A:ALA:HA	9	0.16
(1,23)	1:165:A:MET:H	1:162:A:ALA:HA	10	0.16
(1,23)	1:165:A:MET:H	1:162:A:ALA:HA	16	0.16
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG21	11	0.16
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG21	14	0.16
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	12	0.15
(1,2465)	1:120:A:ILE:HG21	2:4:B:G:H5'	19	0.15
(1,2465)	1:120:A:ILE:HG22	2:4:B:G:H5'	19	0.15
(1,2465)	1:120:A:ILE:HG23	2:4:B:G:H5'	19	0.15
(1,2441)	2:1:B:U:H5	2:1:B:U:H3'	5	0.15
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	1	0.15
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	4	0.15
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	9	0.15
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	14	0.15
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	18	0.15
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	3	0.15
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	8	0.15
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	15	0.15
(1,2406)	1:179:A:GLN:H	1:180:A:GLN:H	17	0.15
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	1	0.15
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	12	0.15
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	18	0.15
(1,2401)	1:174:A:LEU:H	1:175:A:ALA:H	9	0.15
(1,2392)	1:165:A:MET:H	1:166:A:ALA:H	10	0.15
(1,2369)	1:28:A:PHE:HA	1:70:A:MET:HA	20	0.15
(1,2365)	1:71:A:VAL:HA	1:58:A:ILE:HA	9	0.15
(1,2359)	1:106:A:GLU:HA	1:157:A:ILE:HA	13	0.15
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	1	0.15
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	6	0.15
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	14	0.15
(1,2341)	1:118:A:ARG:HB2	2:2:B:C:H5	4	0.15
(1,2341)	1:118:A:ARG:HB3	2:2:B:C:H5	4	0.15
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	2	0.15
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	8	0.15
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2334)	2:4:B:G:H3'	2:4:B:G:H8	3	0.15
(1,2315)	2:2:B:C:H2'	2:3:B:G:H8	3	0.15
(1,2288)	1:91:A:LEU:H	1:90:A:LYS:HA	5	0.15
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG23	4	0.15
(1,2264)	1:29:A:ILE:H	1:29:A:ILE:HB	2	0.15
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	2	0.15
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	8	0.15
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	9	0.15
(1,2237)	1:25:A:VAL:H	1:73:A:ILE:HA	5	0.15
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	1	0.15
(1,2231)	1:147:A:ASP:H	1:148:A:GLU:H	3	0.15
(1,2228)	1:128:A:ASN:H	1:125:A:LYS:HA	8	0.15
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG11	2	0.15
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG13	12	0.15
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG11	17	0.15
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB1	10	0.15
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB1	16	0.15
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	20	0.15
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	12	0.15
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	15	0.15
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	2	0.15
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	20	0.15
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB2	19	0.15
(1,2011)	1:12:A:ALA:H	1:12:A:ALA:HB3	7	0.15
(1,2005)	1:74:A:THR:H	1:24:A:THR:HG22	10	0.15
(1,1993)	1:71:A:VAL:H	1:28:A:PHE:HA	4	0.15
(1,1993)	1:71:A:VAL:H	1:28:A:PHE:HA	11	0.15
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	10	0.15
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	8	0.15
(1,1949)	1:56:A:ILE:H	1:49:A:SER:HB2	17	0.15
(1,1936)	1:68:A:VAL:H	1:31:A:ALA:H	17	0.15
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	10	0.15
(1,1920)	1:55:A:SER:H	1:56:A:ILE:H	1	0.15
(1,1920)	1:55:A:SER:H	1:56:A:ILE:H	3	0.15
(1,1920)	1:55:A:SER:H	1:56:A:ILE:H	8	0.15
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	2	0.15
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	3	0.15
(1,1908)	1:24:A:THR:H	1:23:A:GLU:H	9	0.15
(1,1896)	1:154:A:VAL:H	1:109:A:ILE:HG12	8	0.15
(1,1885)	1:155:A:LYS:H	1:139:A:VAL:HG12	16	0.15
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	11	0.15
(1,1876)	1:113:A:ALA:H	1:146:A:PRO:HB3	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1873)	1:113:A:ALA:H	1:151:A:GLN:H	1	0.15
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	15	0.15
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	6	0.15
(1,1802)	1:23:A:GLU:H	1:23:A:GLU:HB2	13	0.15
(1,1781)	1:102:A:GLU:H	1:101:A:GLU:HG2	19	0.15
(1,1780)	1:102:A:GLU:H	1:102:A:GLU:HB2	2	0.15
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	1	0.15
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	2	0.15
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	4	0.15
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	5	0.15
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	6	0.15
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	8	0.15
(1,1755)	1:21:A:GLU:H	1:21:A:GLU:HG2	9	0.15
(1,1741)	1:98:A:GLY:H	1:98:A:GLY:HA3	19	0.15
(1,1729)	1:95:A:ASN:H	1:94:A:GLU:HA	1	0.15
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	8	0.15
(1,1688)	1:34:A:VAL:H	1:33:A:ALA:HB1	8	0.15
(1,1684)	1:54:A:ALA:H	1:53:A:SER:HA	13	0.15
(1,1631)	1:138:A:VAL:H	1:138:A:VAL:HG12	20	0.15
(1,1628)	1:74:A:THR:H	1:56:A:ILE:HA	6	0.15
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD12	10	0.15
(1,1615)	1:122:A:LYS:HA	1:122:A:LYS:HG2	14	0.15
(1,1612)	1:61:A:PRO:HA	1:61:A:PRO:HB2	5	0.15
(1,1605)	1:18:A:MET:HG2	1:18:A:MET:HB3	8	0.15
(1,1596)	1:72:A:VAL:HG11	1:72:A:VAL:HG22	16	0.15
(1,1587)	1:110:A:ARG:HD2	1:153:A:ILE:HD11	17	0.15
(1,1579)	1:32:A:GLN:HG2	1:96:A:PHE:HD1	20	0.15
(1,1576)	1:29:A:ILE:HD13	1:33:A:ALA:HB1	4	0.15
(1,1575)	1:168:A:ARG:HA	1:171:A:ARG:HG3	15	0.15
(1,1575)	1:168:A:ARG:HA	1:171:A:ARG:HG3	17	0.15
(1,1574)	1:103:A:VAL:HG12	1:92:A:LYS:HA	19	0.15
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	5	0.15
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	15	0.15
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	1	0.15
(1,1515)	1:112:A:PRO:HA	1:112:A:PRO:HB2	6	0.15
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	17	0.15
(1,1487)	1:38:A:ILE:HD11	1:58:A:ILE:H	6	0.15
(1,1487)	1:38:A:ILE:HD11	1:58:A:ILE:H	7	0.15
(1,1487)	1:38:A:ILE:HD13	1:58:A:ILE:H	12	0.15
(1,1458)	1:110:A:ARG:HD3	1:110:A:ARG:H	16	0.15
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	16	0.15
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	18	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	19	0.15
(1,1451)	1:109:A:ILE:HD13	1:109:A:ILE:HG23	7	0.15
(1,1443)	1:104:A:LYS:HB2	1:104:A:LYS:HE3	9	0.15
(1,1442)	1:104:A:LYS:HB3	1:104:A:LYS:HE3	12	0.15
(1,1436)	1:130:A:LEU:H	1:130:A:LEU:HD21	3	0.15
(1,1425)	1:56:A:ILE:HD13	1:56:A:ILE:HG12	15	0.15
(1,1425)	1:56:A:ILE:HD12	1:56:A:ILE:HG12	20	0.15
(1,1414)	1:57:A:LYS:HE2	1:57:A:LYS:HD3	6	0.15
(1,1413)	1:57:A:LYS:HG3	1:72:A:VAL:HG22	16	0.15
(1,1396)	1:91:A:LEU:HD23	1:30:A:PRO:HD3	11	0.15
(1,1396)	1:91:A:LEU:HD21	1:30:A:PRO:HD3	19	0.15
(1,1371)	1:68:A:VAL:HG21	1:69:A:ARG:H	9	0.15
(1,1371)	1:68:A:VAL:HG23	1:69:A:ARG:H	12	0.15
(1,1363)	1:170:A:ILE:H	1:170:A:ILE:HD12	2	0.15
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	5	0.15
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	16	0.15
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	20	0.15
(1,1310)	1:136:A:ALA:H	1:135:A:ALA:HA	14	0.15
(1,1298)	1:105:A:LEU:HG	1:30:A:PRO:HD3	6	0.15
(1,1298)	1:105:A:LEU:HG	1:30:A:PRO:HD3	7	0.15
(1,1293)	1:57:A:LYS:HB3	1:72:A:VAL:HB	6	0.15
(1,1293)	1:57:A:LYS:HB3	1:72:A:VAL:HB	10	0.15
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD13	12	0.15
(1,1271)	1:94:A:GLU:HB3	1:96:A:PHE:HZ	12	0.15
(1,1258)	1:147:A:ASP:H	1:147:A:ASP:HB3	12	0.15
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	3	0.15
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	4	0.15
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	6	0.15
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	7	0.15
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	8	0.15
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	9	0.15
(1,1173)	1:45:A:ILE:HA	1:45:A:ILE:HG12	12	0.15
(1,1166)	1:70:A:MET:HA	1:70:A:MET:HG2	14	0.15
(1,1159)	1:143:A:ASP:HA	1:143:A:ASP:HB3	4	0.15
(1,1159)	1:143:A:ASP:HA	1:143:A:ASP:HB3	10	0.15
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD13	9	0.15
(1,1131)	1:34:A:VAL:H	1:34:A:VAL:HG13	2	0.15
(1,1125)	1:87:A:ILE:H	1:87:A:ILE:HG12	11	0.15
(1,1125)	1:87:A:ILE:H	1:87:A:ILE:HG12	17	0.15
(1,1121)	1:87:A:ILE:H	1:86:A:ARG:HB2	3	0.15
(1,1121)	1:87:A:ILE:H	1:86:A:ARG:HB2	4	0.15
(1,1117)	1:95:A:ASN:H	1:95:A:ASN:HB2	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD12	1	0.15
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD13	3	0.15
(1,1098)	1:150:A:GLU:H	1:149:A:ASN:HA	5	0.15
(1,1098)	1:150:A:GLU:H	1:149:A:ASN:HA	7	0.15
(1,1098)	1:150:A:GLU:H	1:149:A:ASN:HA	19	0.15
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	2	0.15
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	4	0.15
(1,1067)	1:88:A:TYR:HE1	1:104:A:LYS:HA	3	0.15
(1,1049)	1:97:A:PHE:HD1	1:91:A:LEU:HG	7	0.15
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	19	0.15
(1,1042)	1:96:A:PHE:HD1	1:94:A:GLU:HB3	2	0.15
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	1	0.15
(1,1019)	1:155:A:LYS:HE3	1:155:A:LYS:HG2	14	0.15
(1,998)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	1	0.15
(1,998)	1:104:A:LYS:HE2	1:157:A:ILE:HG22	14	0.15
(1,993)	1:18:A:MET:HA	1:19:A:PRO:HD2	12	0.15
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	13	0.15
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	20	0.15
(1,922)	1:88:A:TYR:HB2	1:103:A:VAL:HG23	11	0.15
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	2	0.15
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	6	0.15
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	11	0.15
(1,910)	1:139:A:VAL:HG23	1:139:A:VAL:HB	18	0.15
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	5	0.15
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	15	0.15
(1,899)	1:72:A:VAL:HG12	1:72:A:VAL:HB	18	0.15
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	1	0.15
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	3	0.15
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	4	0.15
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	8	0.15
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	9	0.15
(1,856)	1:56:A:ILE:HD12	1:49:A:SER:HA	9	0.15
(1,852)	1:174:A:LEU:HD11	1:174:A:LEU:HD22	8	0.15
(1,849)	1:34:A:VAL:HG12	1:69:A:ARG:HB3	17	0.15
(1,831)	1:28:A:PHE:HB2	1:106:A:GLU:HB2	7	0.15
(1,823)	1:29:A:ILE:HG23	1:30:A:PRO:HD3	9	0.15
(1,808)	1:71:A:VAL:HG22	1:71:A:VAL:HB	10	0.15
(1,800)	1:67:A:LYS:HA	1:67:A:LYS:HG3	16	0.15
(1,800)	1:67:A:LYS:HA	1:67:A:LYS:HG3	19	0.15
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD11	4	0.15
(1,784)	1:34:A:VAL:HG11	1:58:A:ILE:HD12	2	0.15
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG13	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,762)	1:135:A:ALA:HB3	1:162:A:ALA:HB3	14	0.15
(1,761)	1:135:A:ALA:HB3	1:135:A:ALA:HA	1	0.15
(1,761)	1:135:A:ALA:HB3	1:135:A:ALA:HA	4	0.15
(1,761)	1:135:A:ALA:HB2	1:135:A:ALA:HA	6	0.15
(1,761)	1:135:A:ALA:HB3	1:135:A:ALA:HA	7	0.15
(1,761)	1:135:A:ALA:HB2	1:135:A:ALA:HA	8	0.15
(1,761)	1:135:A:ALA:HB2	1:135:A:ALA:HA	9	0.15
(1,761)	1:135:A:ALA:HB3	1:135:A:ALA:HA	11	0.15
(1,761)	1:135:A:ALA:HB1	1:135:A:ALA:HA	12	0.15
(1,761)	1:135:A:ALA:HB2	1:135:A:ALA:HA	13	0.15
(1,761)	1:135:A:ALA:HB2	1:135:A:ALA:HA	14	0.15
(1,761)	1:135:A:ALA:HB2	1:135:A:ALA:HA	15	0.15
(1,761)	1:135:A:ALA:HB2	1:135:A:ALA:HA	16	0.15
(1,761)	1:135:A:ALA:HB1	1:135:A:ALA:HA	17	0.15
(1,761)	1:135:A:ALA:HB3	1:135:A:ALA:HA	18	0.15
(1,761)	1:135:A:ALA:HB3	1:135:A:ALA:HA	19	0.15
(1,761)	1:135:A:ALA:HB3	1:135:A:ALA:HA	20	0.15
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG21	1	0.15
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG22	11	0.15
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG23	16	0.15
(1,734)	1:153:A:ILE:HD11	1:153:A:ILE:HB	14	0.15
(1,734)	1:153:A:ILE:HD11	1:153:A:ILE:HB	15	0.15
(1,733)	1:153:A:ILE:HD13	1:153:A:ILE:HG12	4	0.15
(1,733)	1:153:A:ILE:HD12	1:153:A:ILE:HG12	9	0.15
(1,733)	1:153:A:ILE:HD13	1:153:A:ILE:HG12	13	0.15
(1,731)	1:153:A:ILE:HG23	1:153:A:ILE:HD11	4	0.15
(1,731)	1:153:A:ILE:HG23	1:153:A:ILE:HD12	6	0.15
(1,722)	1:174:A:LEU:HD11	1:111:A:VAL:HG13	3	0.15
(1,722)	1:174:A:LEU:HD12	1:111:A:VAL:HG12	7	0.15
(1,722)	1:174:A:LEU:HD12	1:111:A:VAL:HG11	12	0.15
(1,722)	1:174:A:LEU:HD12	1:111:A:VAL:HG13	13	0.15
(1,722)	1:174:A:LEU:HD11	1:111:A:VAL:HG13	15	0.15
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	3	0.15
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	1	0.15
(1,692)	1:115:A:ALA:HB1	1:111:A:VAL:HG23	18	0.15
(1,685)	1:116:A:ALA:HB2	1:140:A:VAL:HG11	9	0.15
(1,672)	1:45:A:ILE:HG13	1:45:A:ILE:HD12	16	0.15
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG13	13	0.15
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG12	17	0.15
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG13	20	0.15
(1,637)	1:87:A:ILE:HB	1:87:A:ILE:HD11	8	0.15
(1,636)	1:152:A:VAL:HB	1:152:A:VAL:HG11	11	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,636)	1:152:A:VAL:HB	1:152:A:VAL:HG11	12	0.15
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	6	0.15
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	8	0.15
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	10	0.15
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	15	0.15
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	20	0.15
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG21	1	0.15
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG21	3	0.15
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG23	4	0.15
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG23	5	0.15
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG21	6	0.15
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG23	7	0.15
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG23	8	0.15
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG21	15	0.15
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG23	16	0.15
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG21	17	0.15
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG21	10	0.15
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG22	15	0.15
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	2	0.15
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	6	0.15
(1,574)	1:175:A:ALA:HA	1:175:A:ALA:HB1	12	0.15
(1,574)	1:175:A:ALA:HA	1:175:A:ALA:HB1	18	0.15
(1,571)	1:86:A:ARG:HA	1:86:A:ARG:HB2	2	0.15
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG22	20	0.15
(1,546)	1:55:A:SER:HA	1:55:A:SER:HB2	19	0.15
(1,508)	1:100:A:LYS:H	1:100:A:LYS:HA	16	0.15
(1,504)	1:122:A:LYS:H	1:122:A:LYS:HG2	4	0.15
(1,489)	1:100:A:LYS:HG2	1:100:A:LYS:HB3	2	0.15
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	16	0.15
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD11	16	0.15
(1,461)	1:168:A:ARG:HB2	1:165:A:MET:HA	20	0.15
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	1	0.15
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	9	0.15
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	11	0.15
(1,448)	1:158:A:GLY:HA3	1:156:A:ILE:HG21	19	0.15
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	8	0.15
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	13	0.15
(1,426)	1:87:A:ILE:HA	1:87:A:ILE:HG22	13	0.15
(1,402)	1:167:A:GLN:HG3	1:156:A:ILE:HD12	6	0.15
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	8	0.15
(1,358)	1:111:A:VAL:HA	1:112:A:PRO:HD2	4	0.15
(1,358)	1:111:A:VAL:HA	1:112:A:PRO:HD2	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,352)	1:59:A:ALA:HB3	1:60:A:PRO:HD3	11	0.15
(1,352)	1:59:A:ALA:HB3	1:60:A:PRO:HD3	14	0.15
(1,352)	1:59:A:ALA:HB2	1:60:A:PRO:HD3	15	0.15
(1,350)	1:48:A:LEU:H	1:48:A:LEU:HD12	10	0.15
(1,345)	1:177:A:VAL:H	1:177:A:VAL:HG11	12	0.15
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB3	16	0.15
(1,284)	1:48:A:LEU:H	1:48:A:LEU:HG	16	0.15
(1,276)	1:93:A:GLU:H	1:92:A:LYS:HB3	4	0.15
(1,274)	1:90:A:LYS:HA	1:90:A:LYS:HB2	16	0.15
(1,269)	1:51:A:PHE:HD1	1:51:A:PHE:HB2	8	0.15
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	9	0.15
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	10	0.15
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	16	0.15
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	20	0.15
(1,245)	1:21:A:GLU:HA	1:21:A:GLU:HG2	7	0.15
(1,245)	1:21:A:GLU:HA	1:21:A:GLU:HG2	20	0.15
(1,240)	1:87:A:ILE:HD12	1:88:A:TYR:HA	7	0.15
(1,232)	1:111:A:VAL:HG11	1:111:A:VAL:HG21	19	0.15
(1,229)	1:119:A:VAL:HG11	1:116:A:ALA:HA	6	0.15
(1,215)	1:115:A:ALA:HB3	1:177:A:VAL:HG21	8	0.15
(1,190)	1:151:A:GLN:HA	1:151:A:GLN:HG3	4	0.15
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	4	0.15
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	5	0.15
(1,173)	1:50:A:ARG:HB2	1:50:A:ARG:HA	6	0.15
(1,164)	1:73:A:ILE:HB	1:84:A:GLN:HG2	13	0.15
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG12	1	0.15
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG12	9	0.15
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	1	0.15
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	2	0.15
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	3	0.15
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	5	0.15
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	6	0.15
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	8	0.15
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	10	0.15
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	11	0.15
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	13	0.15
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	15	0.15
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	17	0.15
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	18	0.15
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	19	0.15
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	20	0.15
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	3	0.15
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	11	0.15
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	14	0.15
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	20	0.15
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	2	0.15
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	4	0.15
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	5	0.15
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	13	0.15
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	16	0.15
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	3	0.15
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	10	0.15
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	18	0.15
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	19	0.15
(1,116)	1:80:A:GLN:HA	1:83:A:ALA:HB1	4	0.15
(1,112)	1:45:A:ILE:HA	1:45:A:ILE:HG13	2	0.15
(1,112)	1:45:A:ILE:HA	1:45:A:ILE:HG13	6	0.15
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	7	0.15
(1,104)	1:45:A:ILE:HA	1:48:A:LEU:HB3	20	0.15
(1,76)	1:67:A:LYS:HA	1:67:A:LYS:HB2	14	0.15
(1,76)	1:67:A:LYS:HA	1:67:A:LYS:HB2	19	0.15
(1,23)	1:165:A:MET:H	1:162:A:ALA:HA	8	0.15
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG22	16	0.15
(3,1)	1:140:A:VAL:O	2:5:B:6MZ:N6	10	0.14
(3,1)	1:140:A:VAL:O	2:5:B:6MZ:N6	15	0.14
(3,1)	1:140:A:VAL:O	2:5:B:6MZ:N6	20	0.14
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	5	0.14
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	14	0.14
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	15	0.14
(1,2465)	1:120:A:ILE:HG21	2:4:B:G:H5'	2	0.14
(1,2465)	1:120:A:ILE:HG22	2:4:B:G:H5'	2	0.14
(1,2465)	1:120:A:ILE:HG23	2:4:B:G:H5'	2	0.14
(1,2465)	1:120:A:ILE:HG21	2:4:B:G:H5'	9	0.14
(1,2465)	1:120:A:ILE:HG22	2:4:B:G:H5'	9	0.14
(1,2465)	1:120:A:ILE:HG23	2:4:B:G:H5'	9	0.14
(1,2463)	1:122:A:LYS:HD2	2:2:B:C:H3'	3	0.14
(1,2463)	1:122:A:LYS:HD3	2:2:B:C:H3'	3	0.14
(1,2463)	1:122:A:LYS:HD2	2:2:B:C:H3'	15	0.14
(1,2463)	1:122:A:LYS:HD3	2:2:B:C:H3'	15	0.14
(1,2460)	1:122:A:LYS:HG2	2:2:B:C:H5"	7	0.14
(1,2460)	1:122:A:LYS:HG2	2:2:B:C:H5'	7	0.14
(1,2455)	1:118:A:ARG:HD3	2:1:B:U:H1'	6	0.14
(1,2441)	2:1:B:U:H5	2:1:B:U:H3'	19	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	2	0.14
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	10	0.14
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	12	0.14
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	13	0.14
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	17	0.14
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	19	0.14
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	14	0.14
(1,2406)	1:179:A:GLN:H	1:180:A:GLN:H	14	0.14
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	2	0.14
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	4	0.14
(1,2398)	1:171:A:ARG:H	1:172:A:ASP:H	15	0.14
(1,2398)	1:171:A:ARG:H	1:172:A:ASP:H	17	0.14
(1,2393)	1:166:A:ALA:H	1:167:A:GLN:H	5	0.14
(1,2392)	1:165:A:MET:H	1:166:A:ALA:H	9	0.14
(1,2388)	1:177:A:VAL:HA	1:180:A:GLN:H	11	0.14
(1,2388)	1:177:A:VAL:HA	1:180:A:GLN:H	19	0.14
(1,2385)	1:174:A:LEU:HA	1:177:A:VAL:H	16	0.14
(1,2385)	1:174:A:LEU:HA	1:177:A:VAL:H	18	0.14
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	17	0.14
(1,2342)	2:2:B:C:H6	2:2:B:C:H5'	16	0.14
(1,2341)	1:118:A:ARG:HB2	2:2:B:C:H5	2	0.14
(1,2341)	1:118:A:ARG:HB3	2:2:B:C:H5	2	0.14
(1,2339)	1:120:A:ILE:HG21	2:5:B:6MZ:H1'	2	0.14
(1,2339)	1:120:A:ILE:HG22	2:5:B:6MZ:H1'	2	0.14
(1,2339)	1:120:A:ILE:HG23	2:5:B:6MZ:H1'	2	0.14
(1,2339)	1:120:A:ILE:HG21	2:5:B:6MZ:H1'	6	0.14
(1,2339)	1:120:A:ILE:HG22	2:5:B:6MZ:H1'	6	0.14
(1,2339)	1:120:A:ILE:HG23	2:5:B:6MZ:H1'	6	0.14
(1,2339)	1:120:A:ILE:HG21	2:5:B:6MZ:H1'	18	0.14
(1,2339)	1:120:A:ILE:HG22	2:5:B:6MZ:H1'	18	0.14
(1,2339)	1:120:A:ILE:HG23	2:5:B:6MZ:H1'	18	0.14
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	11	0.14
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	18	0.14
(1,2331)	2:3:B:G:H8	2:3:B:G:H2'	4	0.14
(1,2325)	1:120:A:ILE:HG21	2:3:B:G:H4'	20	0.14
(1,2325)	1:120:A:ILE:HG22	2:3:B:G:H4'	20	0.14
(1,2325)	1:120:A:ILE:HG23	2:3:B:G:H4'	20	0.14
(1,2315)	2:2:B:C:H2'	2:3:B:G:H8	16	0.14
(1,2315)	2:2:B:C:H2'	2:3:B:G:H8	17	0.14
(1,2307)	2:1:B:U:H6	2:2:B:C:H5	18	0.14
(1,2297)	1:118:A:ARG:HD3	2:2:B:C:H6	2	0.14
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG23	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2270)	1:84:A:GLN:HE21	1:84:A:GLN:HB3	6	0.14
(1,2269)	1:84:A:GLN:HE21	1:84:A:GLN:HB2	10	0.14
(1,2264)	1:29:A:ILE:H	1:29:A:ILE:HB	4	0.14
(1,2264)	1:29:A:ILE:H	1:29:A:ILE:HB	8	0.14
(1,2264)	1:29:A:ILE:H	1:29:A:ILE:HB	9	0.14
(1,2240)	1:62:A:GLU:H	1:69:A:ARG:HA	7	0.14
(1,2237)	1:25:A:VAL:H	1:73:A:ILE:HA	11	0.14
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	5	0.14
(1,2221)	1:143:A:ASP:H	1:142:A:ARG:HG2	18	0.14
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG13	5	0.14
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG11	19	0.14
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB1	9	0.14
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	12	0.14
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	18	0.14
(1,2187)	1:63:A:THR:H	1:61:A:PRO:HA	5	0.14
(1,2172)	1:100:A:LYS:H	1:100:A:LYS:HD2	7	0.14
(1,2172)	1:100:A:LYS:H	1:100:A:LYS:HD2	14	0.14
(1,2121)	1:84:A:GLN:HE21	1:84:A:GLN:HG2	20	0.14
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	4	0.14
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	9	0.14
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	10	0.14
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	11	0.14
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	14	0.14
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	16	0.14
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	17	0.14
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	20	0.14
(1,2116)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	15	0.14
(1,2104)	1:149:A:ASN:HD22	1:149:A:ASN:HB3	2	0.14
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	6	0.14
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	9	0.14
(1,2050)	1:101:A:GLU:H	1:101:A:GLU:HB3	10	0.14
(1,1993)	1:71:A:VAL:H	1:28:A:PHE:HA	5	0.14
(1,1981)	1:176:A:GLN:HE22	1:176:A:GLN:HB2	14	0.14
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	3	0.14
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	5	0.14
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	9	0.14
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	11	0.14
(1,1964)	1:108:A:HIS:H	1:28:A:PHE:HB3	10	0.14
(1,1942)	1:45:A:ILE:H	1:38:A:ILE:HA	12	0.14
(1,1942)	1:45:A:ILE:H	1:38:A:ILE:HA	13	0.14
(1,1936)	1:68:A:VAL:H	1:31:A:ALA:H	19	0.14
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	7	0.14
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	15	0.14
(1,1903)	1:170:A:ILE:H	1:168:A:ARG:HA	4	0.14
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	1	0.14
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	2	0.14
(1,1896)	1:154:A:VAL:H	1:109:A:ILE:HG12	12	0.14
(1,1896)	1:154:A:VAL:H	1:109:A:ILE:HG12	16	0.14
(1,1885)	1:155:A:LYS:H	1:139:A:VAL:HG12	8	0.14
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB3	5	0.14
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB3	7	0.14
(1,1860)	1:163:A:SER:H	1:136:A:ALA:HA	3	0.14
(1,1847)	1:34:A:VAL:H	1:32:A:GLN:HA	16	0.14
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	14	0.14
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	1	0.14
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	3	0.14
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	4	0.14
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	7	0.14
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	9	0.14
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	10	0.14
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	11	0.14
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	12	0.14
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	13	0.14
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	14	0.14
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	16	0.14
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	20	0.14
(1,1780)	1:102:A:GLU:H	1:102:A:GLU:HB2	5	0.14
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	1	0.14
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	17	0.14
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	2	0.14
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	11	0.14
(1,1741)	1:98:A:GLY:H	1:98:A:GLY:HA3	13	0.14
(1,1729)	1:95:A:ASN:H	1:94:A:GLU:HA	5	0.14
(1,1685)	1:149:A:ASN:H	1:148:A:GLU:HB2	2	0.14
(1,1685)	1:149:A:ASN:H	1:148:A:GLU:HB2	8	0.14
(1,1684)	1:54:A:ALA:H	1:53:A:SER:HA	14	0.14
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	17	0.14
(1,1645)	1:156:A:ILE:H	1:156:A:ILE:HG12	11	0.14
(1,1645)	1:156:A:ILE:H	1:156:A:ILE:HG12	12	0.14
(1,1645)	1:156:A:ILE:H	1:156:A:ILE:HG12	18	0.14
(1,1645)	1:156:A:ILE:H	1:156:A:ILE:HG12	19	0.14
(1,1624)	1:72:A:VAL:H	1:58:A:ILE:HA	19	0.14
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD13	14	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1619)	1:157:A:ILE:HG22	1:104:A:LYS:HD2	20	0.14
(1,1608)	1:103:A:VAL:H	1:102:A:GLU:HG2	1	0.14
(1,1608)	1:103:A:VAL:H	1:102:A:GLU:HG2	4	0.14
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	8	0.14
(1,1603)	1:134:A:THR:HG21	1:165:A:MET:HG3	4	0.14
(1,1603)	1:134:A:THR:HG22	1:165:A:MET:HG3	9	0.14
(1,1594)	1:27:A:VAL:H	1:71:A:VAL:HB	18	0.14
(1,1579)	1:32:A:GLN:HG2	1:96:A:PHE:HD1	12	0.14
(1,1579)	1:32:A:GLN:HG2	1:96:A:PHE:HD1	14	0.14
(1,1578)	1:30:A:PRO:HD2	1:29:A:ILE:HG21	8	0.14
(1,1576)	1:29:A:ILE:HD11	1:33:A:ALA:HB2	9	0.14
(1,1563)	1:92:A:LYS:HD2	1:103:A:VAL:HG11	5	0.14
(1,1539)	1:90:A:LYS:HG3	1:91:A:LEU:HD22	1	0.14
(1,1514)	1:139:A:VAL:H	1:139:A:VAL:HG21	10	0.14
(1,1514)	1:139:A:VAL:H	1:139:A:VAL:HG23	17	0.14
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	9	0.14
(1,1487)	1:38:A:ILE:HD11	1:58:A:ILE:H	5	0.14
(1,1487)	1:38:A:ILE:HD11	1:58:A:ILE:H	10	0.14
(1,1487)	1:38:A:ILE:HD12	1:58:A:ILE:H	19	0.14
(1,1469)	1:161:A:TYR:H	1:161:A:TYR:HB3	11	0.14
(1,1469)	1:161:A:TYR:H	1:161:A:TYR:HB3	14	0.14
(1,1469)	1:161:A:TYR:H	1:161:A:TYR:HB3	20	0.14
(1,1458)	1:110:A:ARG:HD3	1:110:A:ARG:H	10	0.14
(1,1458)	1:110:A:ARG:HD3	1:110:A:ARG:H	11	0.14
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	14	0.14
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	20	0.14
(1,1425)	1:56:A:ILE:HD12	1:56:A:ILE:HG12	1	0.14
(1,1425)	1:56:A:ILE:HD11	1:56:A:ILE:HG12	9	0.14
(1,1414)	1:57:A:LYS:HE2	1:57:A:LYS:HD3	7	0.14
(1,1377)	1:73:A:ILE:HG21	1:73:A:ILE:HA	17	0.14
(1,1334)	1:156:A:ILE:HD12	1:107:A:THR:HB	12	0.14
(1,1334)	1:156:A:ILE:HD13	1:107:A:THR:HB	16	0.14
(1,1334)	1:156:A:ILE:HD12	1:107:A:THR:HB	20	0.14
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB2	7	0.14
(1,1282)	1:110:A:ARG:HA	1:153:A:ILE:HG23	1	0.14
(1,1282)	1:110:A:ARG:HA	1:153:A:ILE:HG23	3	0.14
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	2	0.14
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	5	0.14
(1,1159)	1:143:A:ASP:HA	1:143:A:ASP:HB3	18	0.14
(1,1145)	1:111:A:VAL:HA	1:174:A:LEU:HD11	1	0.14
(1,1135)	1:80:A:GLN:HE22	1:25:A:VAL:HG21	16	0.14
(1,1125)	1:87:A:ILE:H	1:87:A:ILE:HG12	19	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1121)	1:87:A:ILE:H	1:86:A:ARG:HB2	8	0.14
(1,1121)	1:87:A:ILE:H	1:86:A:ARG:HB2	16	0.14
(1,1121)	1:87:A:ILE:H	1:86:A:ARG:HB2	20	0.14
(1,1117)	1:95:A:ASN:H	1:95:A:ASN:HB2	2	0.14
(1,1098)	1:150:A:GLU:H	1:149:A:ASN:HA	1	0.14
(1,1098)	1:150:A:GLU:H	1:149:A:ASN:HA	3	0.14
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	6	0.14
(1,1073)	1:88:A:TYR:HE1	1:103:A:VAL:HB	3	0.14
(1,1073)	1:88:A:TYR:HE1	1:103:A:VAL:HB	15	0.14
(1,1064)	1:97:A:PHE:HE1	1:91:A:LEU:HD13	19	0.14
(1,1049)	1:97:A:PHE:HD1	1:91:A:LEU:HG	9	0.14
(1,1042)	1:96:A:PHE:HD1	1:94:A:GLU:HB3	7	0.14
(1,1042)	1:96:A:PHE:HD1	1:94:A:GLU:HB3	8	0.14
(1,1042)	1:96:A:PHE:HD1	1:94:A:GLU:HB3	10	0.14
(1,1032)	1:28:A:PHE:HD1	1:106:A:GLU:HB2	15	0.14
(1,1019)	1:155:A:LYS:HE3	1:155:A:LYS:HG2	11	0.14
(1,1016)	1:126:A:THR:HG22	1:173:A:ILE:HD13	16	0.14
(1,1012)	1:136:A:ALA:HA	1:162:A:ALA:HB3	8	0.14
(1,993)	1:18:A:MET:HA	1:19:A:PRO:HD2	7	0.14
(1,991)	1:142:A:ARG:HD2	1:142:A:ARG:HA	6	0.14
(1,991)	1:142:A:ARG:HD2	1:142:A:ARG:HA	12	0.14
(1,991)	1:142:A:ARG:HD2	1:142:A:ARG:HA	19	0.14
(1,981)	1:48:A:LEU:HD22	1:48:A:LEU:HD13	9	0.14
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	17	0.14
(1,945)	1:139:A:VAL:HG12	1:141:A:PRO:HD3	20	0.14
(1,937)	1:24:A:THR:HG23	1:74:A:THR:HA	3	0.14
(1,931)	1:157:A:ILE:HD11	1:106:A:GLU:HA	3	0.14
(1,931)	1:157:A:ILE:HD13	1:106:A:GLU:HA	11	0.14
(1,918)	1:102:A:GLU:HA	1:102:A:GLU:HG2	8	0.14
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	1	0.14
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	3	0.14
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	5	0.14
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	8	0.14
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	9	0.14
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	10	0.14
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD3	3	0.14
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	18	0.14
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD2	20	0.14
(1,898)	1:57:A:LYS:HG2	1:57:A:LYS:HD2	2	0.14
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	3	0.14
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	4	0.14
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	8	0.14
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	9	0.14
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	10	0.14
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	11	0.14
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	13	0.14
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	14	0.14
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	15	0.14
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	16	0.14
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	17	0.14
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	18	0.14
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	19	0.14
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	20	0.14
(1,852)	1:174:A:LEU:HD11	1:174:A:LEU:HD23	15	0.14
(1,828)	1:91:A:LEU:HD21	1:91:A:LEU:HB2	7	0.14
(1,826)	1:91:A:LEU:HD23	1:105:A:LEU:HD12	4	0.14
(1,823)	1:29:A:ILE:HG23	1:30:A:PRO:HD3	2	0.14
(1,823)	1:29:A:ILE:HG21	1:30:A:PRO:HD3	3	0.14
(1,820)	1:119:A:VAL:HG12	1:119:A:VAL:HG22	10	0.14
(1,812)	1:174:A:LEU:HD11	1:111:A:VAL:HG21	11	0.14
(1,799)	1:48:A:LEU:HD11	1:48:A:LEU:HB2	4	0.14
(1,799)	1:48:A:LEU:HD13	1:48:A:LEU:HB2	18	0.14
(1,798)	1:48:A:LEU:HD13	1:48:A:LEU:HB3	13	0.14
(1,797)	1:48:A:LEU:HD12	1:51:A:PHE:HD1	2	0.14
(1,784)	1:34:A:VAL:HG11	1:58:A:ILE:HD13	6	0.14
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG12	4	0.14
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG13	8	0.14
(1,762)	1:135:A:ALA:HB1	1:162:A:ALA:HB3	19	0.14
(1,761)	1:135:A:ALA:HB3	1:135:A:ALA:HA	2	0.14
(1,761)	1:135:A:ALA:HB3	1:135:A:ALA:HA	3	0.14
(1,761)	1:135:A:ALA:HB1	1:135:A:ALA:HA	5	0.14
(1,722)	1:174:A:LEU:HD13	1:111:A:VAL:HG13	1	0.14
(1,722)	1:174:A:LEU:HD12	1:111:A:VAL:HG13	5	0.14
(1,722)	1:174:A:LEU:HD13	1:111:A:VAL:HG12	6	0.14
(1,722)	1:174:A:LEU:HD12	1:111:A:VAL:HG12	9	0.14
(1,722)	1:174:A:LEU:HD11	1:111:A:VAL:HG11	10	0.14
(1,722)	1:174:A:LEU:HD11	1:111:A:VAL:HG13	11	0.14
(1,722)	1:174:A:LEU:HD13	1:111:A:VAL:HG12	17	0.14
(1,722)	1:174:A:LEU:HD12	1:111:A:VAL:HG12	20	0.14
(1,700)	1:119:A:VAL:HB	1:170:A:ILE:HG12	3	0.14
(1,692)	1:115:A:ALA:HB1	1:111:A:VAL:HG22	11	0.14
(1,685)	1:116:A:ALA:HB3	1:140:A:VAL:HG13	4	0.14
(1,685)	1:116:A:ALA:HB2	1:140:A:VAL:HG12	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,672)	1:45:A:ILE:HG13	1:45:A:ILE:HD13	4	0.14
(1,638)	1:90:A:LYS:HB2	1:37:A:ILE:HD13	2	0.14
(1,622)	1:148:A:GLU:HG3	1:149:A:ASN:HA	20	0.14
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	9	0.14
(1,614)	1:103:A:VAL:HG11	1:103:A:VAL:HA	20	0.14
(1,604)	1:167:A:GLN:HA	1:109:A:ILE:HD13	1	0.14
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG22	13	0.14
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG21	19	0.14
(1,591)	1:45:A:ILE:HA	1:45:A:ILE:HD11	14	0.14
(1,585)	1:22:A:GLN:HA	1:22:A:GLN:HG2	1	0.14
(1,575)	1:36:A:ALA:HA	1:36:A:ALA:HB1	19	0.14
(1,574)	1:175:A:ALA:HA	1:175:A:ALA:HB1	20	0.14
(1,571)	1:86:A:ARG:HA	1:86:A:ARG:HB2	8	0.14
(1,523)	1:142:A:ARG:HA	1:142:A:ARG:HG2	14	0.14
(1,520)	1:127:A:VAL:HG11	1:137:A:GLU:HA	16	0.14
(1,517)	1:142:A:ARG:HD2	1:142:A:ARG:HA	14	0.14
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	14	0.14
(1,489)	1:100:A:LYS:HG2	1:100:A:LYS:HB3	3	0.14
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD11	10	0.14
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	2	0.14
(1,451)	1:166:A:ALA:HB2	1:134:A:THR:HB	4	0.14
(1,448)	1:158:A:GLY:HA3	1:156:A:ILE:HG21	10	0.14
(1,430)	1:93:A:GLU:HG2	1:93:A:GLU:HB2	12	0.14
(1,428)	1:91:A:LEU:H	1:88:A:TYR:HA	5	0.14
(1,425)	1:86:A:ARG:HA	1:86:A:ARG:HG2	9	0.14
(1,387)	1:173:A:ILE:HA	1:173:A:ILE:HG22	1	0.14
(1,378)	1:57:A:LYS:H	1:57:A:LYS:HG3	20	0.14
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	7	0.14
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	8	0.14
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	4	0.14
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD13	3	0.14
(1,358)	1:111:A:VAL:HA	1:112:A:PRO:HD2	6	0.14
(1,352)	1:59:A:ALA:HB3	1:60:A:PRO:HD3	6	0.14
(1,352)	1:59:A:ALA:HB3	1:60:A:PRO:HD3	12	0.14
(1,352)	1:59:A:ALA:HB3	1:60:A:PRO:HD3	13	0.14
(1,352)	1:59:A:ALA:HB3	1:60:A:PRO:HD3	16	0.14
(1,352)	1:59:A:ALA:HB3	1:60:A:PRO:HD3	17	0.14
(1,352)	1:59:A:ALA:HB3	1:60:A:PRO:HD3	19	0.14
(1,351)	1:59:A:ALA:HB3	1:60:A:PRO:HD2	16	0.14
(1,345)	1:177:A:VAL:H	1:177:A:VAL:HG11	11	0.14
(1,315)	1:136:A:ALA:H	1:135:A:ALA:HB3	13	0.14
(1,274)	1:90:A:LYS:HA	1:90:A:LYS:HB2	17	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	1	0.14
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	4	0.14
(1,257)	1:97:A:PHE:H	1:97:A:PHE:HB2	19	0.14
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	1	0.14
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	6	0.14
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	12	0.14
(1,229)	1:119:A:VAL:HG11	1:116:A:ALA:HA	5	0.14
(1,222)	1:38:A:ILE:HG21	1:38:A:ILE:HD11	11	0.14
(1,215)	1:115:A:ALA:HB2	1:177:A:VAL:HG21	11	0.14
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD21	11	0.14
(1,212)	1:105:A:LEU:HB3	1:105:A:LEU:HD23	16	0.14
(1,207)	1:178:A:LYS:HG3	1:178:A:LYS:HA	1	0.14
(1,186)	1:170:A:ILE:HA	1:170:A:ILE:HB	9	0.14
(1,168)	1:173:A:ILE:HB	1:170:A:ILE:HA	14	0.14
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG13	4	0.14
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG11	6	0.14
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG12	8	0.14
(1,152)	1:177:A:VAL:HA	1:177:A:VAL:HB	7	0.14
(1,152)	1:177:A:VAL:HA	1:177:A:VAL:HB	13	0.14
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	6	0.14
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	8	0.14
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	9	0.14
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	16	0.14
(1,132)	1:32:A:GLN:HA	1:32:A:GLN:HG2	19	0.14
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	3	0.14
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	6	0.14
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	7	0.14
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	8	0.14
(1,120)	1:37:A:ILE:HG22	1:37:A:ILE:HA	7	0.14
(1,120)	1:37:A:ILE:HG23	1:37:A:ILE:HA	8	0.14
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	6	0.14
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	15	0.14
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	16	0.14
(1,116)	1:80:A:GLN:HA	1:83:A:ALA:HB2	2	0.14
(1,112)	1:45:A:ILE:HA	1:45:A:ILE:HG13	1	0.14
(1,112)	1:45:A:ILE:HA	1:45:A:ILE:HG13	4	0.14
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	6	0.14
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	8	0.14
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	9	0.14
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	20	0.14
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	1	0.14
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	3	0.14
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	4	0.14
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	7	0.14
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	8	0.14
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	9	0.14
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	13	0.14
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	14	0.14
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	19	0.14
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD12	7	0.14
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG21	15	0.14
(3,1)	1:140:A:VAL:O	2:5:B:6MZ:N6	1	0.13
(3,1)	1:140:A:VAL:O	2:5:B:6MZ:N6	2	0.13
(3,1)	1:140:A:VAL:O	2:5:B:6MZ:N6	7	0.13
(3,1)	1:140:A:VAL:O	2:5:B:6MZ:N6	9	0.13
(3,1)	1:140:A:VAL:O	2:5:B:6MZ:N6	19	0.13
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	4	0.13
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	7	0.13
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	18	0.13
(1,2480)	2:1:B:U:H1'	2:2:B:C:H3'	16	0.13
(1,2480)	2:1:B:U:H1'	2:2:B:C:H3'	18	0.13
(1,2463)	1:122:A:LYS:HD2	2:2:B:C:H3'	5	0.13
(1,2463)	1:122:A:LYS:HD3	2:2:B:C:H3'	5	0.13
(1,2463)	1:122:A:LYS:HD2	2:2:B:C:H3'	7	0.13
(1,2463)	1:122:A:LYS:HD3	2:2:B:C:H3'	7	0.13
(1,2463)	1:122:A:LYS:HD2	2:2:B:C:H3'	9	0.13
(1,2463)	1:122:A:LYS:HD3	2:2:B:C:H3'	9	0.13
(1,2463)	1:122:A:LYS:HD2	2:2:B:C:H3'	12	0.13
(1,2463)	1:122:A:LYS:HD3	2:2:B:C:H3'	12	0.13
(1,2463)	1:122:A:LYS:HD2	2:2:B:C:H3'	18	0.13
(1,2463)	1:122:A:LYS:HD3	2:2:B:C:H3'	18	0.13
(1,2460)	1:122:A:LYS:HG2	2:2:B:C:H5"	2	0.13
(1,2460)	1:122:A:LYS:HG2	2:2:B:C:H5'	2	0.13
(1,2446)	2:7:B:U:H5	2:7:B:U:H2'	10	0.13
(1,2446)	2:7:B:U:H5	2:7:B:U:H2'	13	0.13
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	3	0.13
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	5	0.13
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	8	0.13
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	11	0.13
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	20	0.13
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	1	0.13
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	4	0.13
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2406)	1:179:A:GLN:H	1:180:A:GLN:H	8	0.13
(1,2406)	1:179:A:GLN:H	1:180:A:GLN:H	10	0.13
(1,2406)	1:179:A:GLN:H	1:180:A:GLN:H	11	0.13
(1,2406)	1:179:A:GLN:H	1:180:A:GLN:H	19	0.13
(1,2403)	1:176:A:GLN:H	1:177:A:VAL:H	10	0.13
(1,2398)	1:171:A:ARG:H	1:172:A:ASP:H	19	0.13
(1,2397)	1:170:A:ILE:H	1:171:A:ARG:H	3	0.13
(1,2397)	1:170:A:ILE:H	1:171:A:ARG:H	15	0.13
(1,2393)	1:166:A:ALA:H	1:167:A:GLN:H	8	0.13
(1,2392)	1:165:A:MET:H	1:166:A:ALA:H	2	0.13
(1,2392)	1:165:A:MET:H	1:166:A:ALA:H	15	0.13
(1,2388)	1:177:A:VAL:HA	1:180:A:GLN:H	2	0.13
(1,2388)	1:177:A:VAL:HA	1:180:A:GLN:H	17	0.13
(1,2388)	1:177:A:VAL:HA	1:180:A:GLN:H	20	0.13
(1,2385)	1:174:A:LEU:HA	1:177:A:VAL:H	14	0.13
(1,2385)	1:174:A:LEU:HA	1:177:A:VAL:H	19	0.13
(1,2365)	1:71:A:VAL:HA	1:58:A:ILE:HA	14	0.13
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	15	0.13
(1,2347)	1:127:A:VAL:HG11	2:5:B:6MZ:H1'	1	0.13
(1,2347)	1:127:A:VAL:HG12	2:5:B:6MZ:H1'	1	0.13
(1,2347)	1:127:A:VAL:HG13	2:5:B:6MZ:H1'	1	0.13
(1,2347)	1:127:A:VAL:HG11	2:5:B:6MZ:H1'	7	0.13
(1,2347)	1:127:A:VAL:HG12	2:5:B:6MZ:H1'	7	0.13
(1,2347)	1:127:A:VAL:HG13	2:5:B:6MZ:H1'	7	0.13
(1,2341)	1:118:A:ARG:HB2	2:2:B:C:H5	6	0.13
(1,2341)	1:118:A:ARG:HB3	2:2:B:C:H5	6	0.13
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	1	0.13
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	4	0.13
(1,2334)	2:4:B:G:H3'	2:4:B:G:H8	5	0.13
(1,2334)	2:4:B:G:H3'	2:4:B:G:H8	7	0.13
(1,2331)	2:3:B:G:H8	2:3:B:G:H2'	7	0.13
(1,2331)	2:3:B:G:H8	2:3:B:G:H2'	11	0.13
(1,2331)	2:3:B:G:H8	2:3:B:G:H2'	15	0.13
(1,2303)	2:5:B:6MZ:H2	2:6:B:C:H1'	5	0.13
(1,2288)	1:91:A:LEU:H	1:90:A:LYS:HA	1	0.13
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG21	12	0.13
(1,2275)	1:22:A:GLN:HE22	1:74:A:THR:HG23	16	0.13
(1,2264)	1:29:A:ILE:H	1:29:A:ILE:HB	10	0.13
(1,2264)	1:29:A:ILE:H	1:29:A:ILE:HB	20	0.13
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	1	0.13
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	7	0.13
(1,2219)	1:158:A:GLY:H	1:136:A:ALA:HA	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2219)	1:158:A:GLY:H	1:136:A:ALA:HA	17	0.13
(1,2194)	1:150:A:GLU:H	1:151:A:GLN:HG3	4	0.13
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB2	4	0.13
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB1	8	0.13
(1,2132)	1:98:A:GLY:H	1:97:A:PHE:HA	19	0.13
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	7	0.13
(1,2116)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	12	0.13
(1,2116)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	18	0.13
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	3	0.13
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	11	0.13
(1,2038)	1:137:A:GLU:H	1:136:A:ALA:HB1	3	0.13
(1,2017)	1:62:A:GLU:H	1:62:A:GLU:HB2	16	0.13
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	12	0.13
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	15	0.13
(1,1939)	1:89:A:GLY:H	1:86:A:ARG:H	16	0.13
(1,1936)	1:68:A:VAL:H	1:31:A:ALA:H	12	0.13
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	9	0.13
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	11	0.13
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	18	0.13
(1,1926)	1:84:A:GLN:H	1:73:A:ILE:HB	7	0.13
(1,1920)	1:55:A:SER:H	1:56:A:ILE:H	14	0.13
(1,1898)	1:33:A:ALA:H	1:34:A:VAL:HA	5	0.13
(1,1896)	1:154:A:VAL:H	1:109:A:ILE:HG12	3	0.13
(1,1896)	1:154:A:VAL:H	1:109:A:ILE:HG12	11	0.13
(1,1896)	1:154:A:VAL:H	1:109:A:ILE:HG12	17	0.13
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB2	14	0.13
(1,1858)	1:139:A:VAL:H	1:138:A:VAL:HG12	8	0.13
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	11	0.13
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	2	0.13
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	5	0.13
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	6	0.13
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	8	0.13
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	17	0.13
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	18	0.13
(1,1817)	1:68:A:VAL:H	1:31:A:ALA:HB1	15	0.13
(1,1798)	1:148:A:GLU:H	1:147:A:ASP:HB3	16	0.13
(1,1780)	1:102:A:GLU:H	1:102:A:GLU:HB2	6	0.13
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	3	0.13
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	6	0.13
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	9	0.13
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	11	0.13
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	12	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	17	0.13
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	2	0.13
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	3	0.13
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	7	0.13
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	9	0.13
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	11	0.13
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	12	0.13
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	16	0.13
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	11	0.13
(1,1760)	1:70:A:MET:H	1:70:A:MET:HG2	16	0.13
(1,1712)	1:37:A:ILE:H	1:37:A:ILE:HG13	15	0.13
(1,1698)	1:96:A:PHE:H	1:96:A:PHE:HB2	16	0.13
(1,1685)	1:149:A:ASN:H	1:148:A:GLU:HB2	7	0.13
(1,1685)	1:149:A:ASN:H	1:148:A:GLU:HB2	9	0.13
(1,1684)	1:54:A:ALA:H	1:53:A:SER:HA	4	0.13
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	6	0.13
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	8	0.13
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	15	0.13
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	19	0.13
(1,1667)	1:101:A:GLU:H	1:101:A:GLU:HB2	14	0.13
(1,1645)	1:156:A:ILE:H	1:156:A:ILE:HG12	15	0.13
(1,1628)	1:74:A:THR:H	1:56:A:ILE:HA	7	0.13
(1,1624)	1:72:A:VAL:H	1:58:A:ILE:HA	13	0.13
(1,1619)	1:157:A:ILE:HG22	1:104:A:LYS:HD2	15	0.13
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	3	0.13
(1,1614)	1:61:A:PRO:HG3	1:61:A:PRO:HD2	8	0.13
(1,1608)	1:103:A:VAL:H	1:102:A:GLU:HG2	9	0.13
(1,1605)	1:18:A:MET:HG2	1:18:A:MET:HB3	6	0.13
(1,1605)	1:18:A:MET:HG2	1:18:A:MET:HB3	12	0.13
(1,1605)	1:18:A:MET:HG2	1:18:A:MET:HB3	18	0.13
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	1	0.13
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	4	0.13
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	5	0.13
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	7	0.13
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	9	0.13
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	10	0.13
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	11	0.13
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	12	0.13
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	13	0.13
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	15	0.13
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	16	0.13
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	17	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	19	0.13
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	20	0.13
(1,1603)	1:134:A:THR:HG21	1:165:A:MET:HG3	7	0.13
(1,1596)	1:72:A:VAL:HG12	1:72:A:VAL:HG23	6	0.13
(1,1593)	1:58:A:ILE:HD11	1:71:A:VAL:HA	13	0.13
(1,1568)	1:37:A:ILE:HG12	1:29:A:ILE:HD13	9	0.13
(1,1566)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	5	0.13
(1,1529)	1:118:A:ARG:HD2	1:173:A:ILE:HG22	16	0.13
(1,1510)	1:93:A:GLU:HG2	1:94:A:GLU:H	19	0.13
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	6	0.13
(1,1470)	1:161:A:TYR:HB3	1:162:A:ALA:H	2	0.13
(1,1470)	1:161:A:TYR:HB3	1:162:A:ALA:H	19	0.13
(1,1462)	1:129:A:GLU:H	1:128:A:ASN:HB2	16	0.13
(1,1460)	1:154:A:VAL:H	1:153:A:ILE:HB	15	0.13
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	11	0.13
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	17	0.13
(1,1451)	1:109:A:ILE:HD13	1:109:A:ILE:HG21	16	0.13
(1,1444)	1:106:A:GLU:H	1:105:A:LEU:HB2	1	0.13
(1,1444)	1:106:A:GLU:H	1:105:A:LEU:HB2	17	0.13
(1,1437)	1:159:A:HIS:HB2	1:159:A:HIS:HD2	7	0.13
(1,1437)	1:159:A:HIS:HB2	1:159:A:HIS:HD2	9	0.13
(1,1399)	1:91:A:LEU:HD22	1:96:A:PHE:HE2	6	0.13
(1,1399)	1:91:A:LEU:HD22	1:96:A:PHE:HE2	9	0.13
(1,1373)	1:94:A:GLU:HB2	1:96:A:PHE:HZ	3	0.13
(1,1373)	1:94:A:GLU:HB2	1:96:A:PHE:HZ	4	0.13
(1,1371)	1:68:A:VAL:HG23	1:69:A:ARG:H	5	0.13
(1,1371)	1:68:A:VAL:HG23	1:69:A:ARG:H	19	0.13
(1,1365)	1:48:A:LEU:HD22	1:86:A:ARG:HB3	3	0.13
(1,1344)	1:153:A:ILE:HG23	1:110:A:ARG:HD3	11	0.13
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB2	13	0.13
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB3	14	0.13
(1,1293)	1:57:A:LYS:HB3	1:72:A:VAL:HB	1	0.13
(1,1293)	1:57:A:LYS:HB3	1:72:A:VAL:HB	2	0.13
(1,1293)	1:57:A:LYS:HB3	1:72:A:VAL:HB	3	0.13
(1,1293)	1:57:A:LYS:HB3	1:72:A:VAL:HB	4	0.13
(1,1293)	1:57:A:LYS:HB3	1:72:A:VAL:HB	8	0.13
(1,1282)	1:110:A:ARG:HA	1:153:A:ILE:HG23	7	0.13
(1,1282)	1:110:A:ARG:HA	1:153:A:ILE:HG22	8	0.13
(1,1282)	1:110:A:ARG:HA	1:153:A:ILE:HG23	15	0.13
(1,1224)	1:174:A:LEU:HB3	1:171:A:ARG:HA	17	0.13
(1,1216)	1:170:A:ILE:HB	1:170:A:ILE:HD12	20	0.13
(1,1197)	1:172:A:ASP:HB3	1:169:A:LYS:HA	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1170)	1:38:A:ILE:HA	1:38:A:ILE:HG12	10	0.13
(1,1166)	1:70:A:MET:HA	1:70:A:MET:HG2	5	0.13
(1,1166)	1:70:A:MET:HA	1:70:A:MET:HG2	9	0.13
(1,1125)	1:87:A:ILE:H	1:87:A:ILE:HG12	13	0.13
(1,1121)	1:87:A:ILE:H	1:86:A:ARG:HB2	1	0.13
(1,1102)	1:93:A:GLU:H	1:93:A:GLU:HG3	20	0.13
(1,1098)	1:150:A:GLU:H	1:149:A:ASN:HA	13	0.13
(1,1082)	1:25:A:VAL:H	1:25:A:VAL:HB	16	0.13
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD13	3	0.13
(1,1073)	1:88:A:TYR:HE1	1:103:A:VAL:HB	12	0.13
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG21	12	0.13
(1,1058)	1:26:A:HIS:HD2	1:72:A:VAL:HG12	13	0.13
(1,1058)	1:26:A:HIS:HD2	1:72:A:VAL:HG11	15	0.13
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	5	0.13
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	6	0.13
(1,1029)	1:28:A:PHE:HD1	1:106:A:GLU:HG2	4	0.13
(1,1029)	1:28:A:PHE:HD1	1:106:A:GLU:HG2	10	0.13
(1,1012)	1:136:A:ALA:HA	1:162:A:ALA:HB2	10	0.13
(1,1012)	1:136:A:ALA:HA	1:162:A:ALA:HB2	12	0.13
(1,1012)	1:136:A:ALA:HA	1:162:A:ALA:HB3	15	0.13
(1,993)	1:18:A:MET:HA	1:19:A:PRO:HD2	3	0.13
(1,981)	1:48:A:LEU:HD21	1:48:A:LEU:HD12	18	0.13
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	15	0.13
(1,945)	1:139:A:VAL:HG11	1:141:A:PRO:HD3	14	0.13
(1,918)	1:102:A:GLU:HA	1:102:A:GLU:HG2	10	0.13
(1,913)	1:46:A:LYS:HG3	1:46:A:LYS:HA	7	0.13
(1,910)	1:139:A:VAL:HG21	1:139:A:VAL:HB	16	0.13
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD3	1	0.13
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD3	12	0.13
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	7	0.13
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	8	0.13
(1,903)	1:92:A:LYS:HE2	1:92:A:LYS:HD2	10	0.13
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	1	0.13
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	2	0.13
(1,880)	1:148:A:GLU:HG3	1:148:A:GLU:HB2	12	0.13
(1,862)	1:90:A:LYS:HD3	1:90:A:LYS:HE2	4	0.13
(1,856)	1:56:A:ILE:HD11	1:49:A:SER:HA	18	0.13
(1,852)	1:174:A:LEU:HD13	1:174:A:LEU:HD23	1	0.13
(1,845)	1:57:A:LYS:HG2	1:72:A:VAL:HG21	7	0.13
(1,837)	1:141:A:PRO:HD2	1:140:A:VAL:HA	13	0.13
(1,828)	1:91:A:LEU:HD21	1:91:A:LEU:HB2	5	0.13
(1,823)	1:29:A:ILE:HG21	1:30:A:PRO:HD3	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,820)	1:119:A:VAL:HG12	1:119:A:VAL:HG22	1	0.13
(1,820)	1:119:A:VAL:HG11	1:119:A:VAL:HG21	4	0.13
(1,806)	1:93:A:GLU:HB3	1:93:A:GLU:HA	15	0.13
(1,792)	1:56:A:ILE:HA	1:56:A:ILE:HD13	6	0.13
(1,783)	1:31:A:ALA:HA	1:34:A:VAL:HG11	7	0.13
(1,773)	1:167:A:GLN:HG2	1:156:A:ILE:HD13	5	0.13
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG22	10	0.13
(1,742)	1:156:A:ILE:HD11	1:166:A:ALA:HB3	19	0.13
(1,722)	1:174:A:LEU:HD11	1:111:A:VAL:HG11	2	0.13
(1,722)	1:174:A:LEU:HD12	1:111:A:VAL:HG13	4	0.13
(1,722)	1:174:A:LEU:HD11	1:111:A:VAL:HG11	8	0.13
(1,722)	1:174:A:LEU:HD13	1:111:A:VAL:HG11	14	0.13
(1,722)	1:174:A:LEU:HD12	1:111:A:VAL:HG13	16	0.13
(1,720)	1:155:A:LYS:HD2	1:155:A:LYS:HE2	2	0.13
(1,720)	1:155:A:LYS:HD2	1:155:A:LYS:HE2	3	0.13
(1,720)	1:155:A:LYS:HD2	1:155:A:LYS:HE2	9	0.13
(1,720)	1:155:A:LYS:HD2	1:155:A:LYS:HE2	10	0.13
(1,720)	1:155:A:LYS:HD2	1:155:A:LYS:HE2	16	0.13
(1,718)	1:53:A:SER:HB2	1:82:A:LYS:HD2	11	0.13
(1,715)	1:25:A:VAL:HG23	1:25:A:VAL:HA	1	0.13
(1,709)	1:86:A:ARG:HB2	1:48:A:LEU:HD13	5	0.13
(1,708)	1:83:A:ALA:HA	1:48:A:LEU:HD13	10	0.13
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	15	0.13
(1,679)	1:58:A:ILE:HG13	1:58:A:ILE:HD12	1	0.13
(1,671)	1:116:A:ALA:HB1	1:140:A:VAL:HG23	11	0.13
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG11	12	0.13
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG13	14	0.13
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG13	15	0.13
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG12	19	0.13
(1,622)	1:148:A:GLU:HG3	1:149:A:ASN:HA	13	0.13
(1,616)	1:179:A:GLN:HA	1:179:A:GLN:HG2	18	0.13
(1,602)	1:144:A:GLN:HG2	1:141:A:PRO:HD2	13	0.13
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG21	10	0.13
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG22	1	0.13
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	9	0.13
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	6	0.13
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	13	0.13
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	17	0.13
(1,549)	1:58:A:ILE:HA	1:58:A:ILE:HG23	15	0.13
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	4	0.13
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	16	0.13
(1,489)	1:100:A:LYS:HG2	1:100:A:LYS:HB3	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,489)	1:100:A:LYS:HG2	1:100:A:LYS:HB3	11	0.13
(1,489)	1:100:A:LYS:HG2	1:100:A:LYS:HB3	12	0.13
(1,464)	1:105:A:LEU:H	1:105:A:LEU:HD11	15	0.13
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	8	0.13
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	10	0.13
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	12	0.13
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	15	0.13
(1,456)	1:61:A:PRO:HD2	1:61:A:PRO:HG2	3	0.13
(1,456)	1:61:A:PRO:HD2	1:61:A:PRO:HG2	8	0.13
(1,448)	1:158:A:GLY:HA3	1:156:A:ILE:HG21	2	0.13
(1,442)	1:35:A:GLY:H	1:34:A:VAL:HB	18	0.13
(1,403)	1:130:A:LEU:H	1:130:A:LEU:HB3	8	0.13
(1,391)	1:22:A:GLN:HE21	1:22:A:GLN:HG2	17	0.13
(1,378)	1:57:A:LYS:H	1:57:A:LYS:HG3	6	0.13
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	2	0.13
(1,368)	1:130:A:LEU:HD11	1:130:A:LEU:HB3	7	0.13
(1,368)	1:130:A:LEU:HD13	1:130:A:LEU:HB3	19	0.13
(1,364)	1:58:A:ILE:H	1:58:A:ILE:HG13	13	0.13
(1,364)	1:58:A:ILE:H	1:58:A:ILE:HG13	19	0.13
(1,352)	1:59:A:ALA:HB2	1:60:A:PRO:HD3	18	0.13
(1,352)	1:59:A:ALA:HB3	1:60:A:PRO:HD3	20	0.13
(1,345)	1:177:A:VAL:H	1:177:A:VAL:HG11	14	0.13
(1,307)	1:91:A:LEU:HG	1:105:A:LEU:HG	5	0.13
(1,307)	1:91:A:LEU:HG	1:105:A:LEU:HG	8	0.13
(1,307)	1:91:A:LEU:HG	1:105:A:LEU:HG	20	0.13
(1,300)	1:74:A:THR:H	1:55:A:SER:HB2	1	0.13
(1,282)	1:179:A:GLN:HE22	1:179:A:GLN:HG2	7	0.13
(1,274)	1:90:A:LYS:HA	1:90:A:LYS:HB2	19	0.13
(1,264)	1:47:A:GLN:HA	1:47:A:GLN:HB2	2	0.13
(1,240)	1:87:A:ILE:HD12	1:88:A:TYR:HA	8	0.13
(1,238)	1:48:A:LEU:HD23	1:83:A:ALA:HB3	4	0.13
(1,207)	1:178:A:LYS:HG3	1:178:A:LYS:HA	2	0.13
(1,207)	1:178:A:LYS:HG3	1:178:A:LYS:HA	3	0.13
(1,207)	1:178:A:LYS:HG3	1:178:A:LYS:HA	4	0.13
(1,207)	1:178:A:LYS:HG3	1:178:A:LYS:HA	5	0.13
(1,207)	1:178:A:LYS:HG3	1:178:A:LYS:HA	6	0.13
(1,207)	1:178:A:LYS:HG3	1:178:A:LYS:HA	15	0.13
(1,207)	1:178:A:LYS:HG3	1:178:A:LYS:HA	20	0.13
(1,168)	1:173:A:ILE:HB	1:170:A:ILE:HA	10	0.13
(1,168)	1:173:A:ILE:HB	1:170:A:ILE:HA	19	0.13
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG11	2	0.13
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG12	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG12	5	0.13
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG13	10	0.13
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG12	11	0.13
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG11	15	0.13
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG11	17	0.13
(1,152)	1:177:A:VAL:HA	1:177:A:VAL:HB	20	0.13
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	2	0.13
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	10	0.13
(1,143)	1:99:A:PRO:HB2	1:99:A:PRO:HG2	16	0.13
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	1	0.13
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	4	0.13
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	1	0.13
(1,121)	1:141:A:PRO:HD2	1:141:A:PRO:HG2	9	0.13
(1,120)	1:37:A:ILE:HG21	1:37:A:ILE:HA	3	0.13
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	1	0.13
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	2	0.13
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	5	0.13
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	10	0.13
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	11	0.13
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	12	0.13
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	15	0.13
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	16	0.13
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	17	0.13
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	18	0.13
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	20	0.13
(1,48)	1:56:A:ILE:HA	1:56:A:ILE:HG22	10	0.13
(1,48)	1:56:A:ILE:HA	1:56:A:ILE:HG23	15	0.13
(1,23)	1:165:A:MET:H	1:162:A:ALA:HA	15	0.13
(3,1)	1:140:A:VAL:O	2:5:B:6MZ:N6	4	0.12
(3,1)	1:140:A:VAL:O	2:5:B:6MZ:N6	16	0.12
(3,1)	1:140:A:VAL:O	2:5:B:6MZ:N6	17	0.12
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	11	0.12
(1,2480)	2:1:B:U:H1'	2:2:B:C:H3'	11	0.12
(1,2465)	1:120:A:ILE:HG21	2:4:B:G:H5'	15	0.12
(1,2465)	1:120:A:ILE:HG22	2:4:B:G:H5'	15	0.12
(1,2465)	1:120:A:ILE:HG23	2:4:B:G:H5'	15	0.12
(1,2455)	1:118:A:ARG:HD3	2:1:B:U:H1'	1	0.12
(1,2446)	2:7:B:U:H5	2:7:B:U:H2'	15	0.12
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	7	0.12
(1,2408)	1:181:A:HIS:H	1:182:A:GLN:H	16	0.12
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	2	0.12
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2406)	1:179:A:GLN:H	1:180:A:GLN:H	9	0.12
(1,2406)	1:179:A:GLN:H	1:180:A:GLN:H	16	0.12
(1,2399)	1:172:A:ASP:H	1:173:A:ILE:H	19	0.12
(1,2399)	1:172:A:ASP:H	1:173:A:ILE:H	20	0.12
(1,2398)	1:171:A:ARG:H	1:172:A:ASP:H	1	0.12
(1,2398)	1:171:A:ARG:H	1:172:A:ASP:H	18	0.12
(1,2397)	1:170:A:ILE:H	1:171:A:ARG:H	19	0.12
(1,2396)	1:169:A:LYS:H	1:170:A:ILE:H	15	0.12
(1,2392)	1:165:A:MET:H	1:166:A:ALA:H	19	0.12
(1,2388)	1:177:A:VAL:HA	1:180:A:GLN:H	4	0.12
(1,2388)	1:177:A:VAL:HA	1:180:A:GLN:H	12	0.12
(1,2388)	1:177:A:VAL:HA	1:180:A:GLN:H	14	0.12
(1,2388)	1:177:A:VAL:HA	1:180:A:GLN:H	16	0.12
(1,2385)	1:174:A:LEU:HA	1:177:A:VAL:H	11	0.12
(1,2385)	1:174:A:LEU:HA	1:177:A:VAL:H	15	0.12
(1,2381)	1:170:A:ILE:HA	1:173:A:ILE:H	5	0.12
(1,2379)	1:168:A:ARG:HA	1:171:A:ARG:H	7	0.12
(1,2369)	1:28:A:PHE:HA	1:70:A:MET:HA	8	0.12
(1,2365)	1:71:A:VAL:HA	1:58:A:ILE:HA	10	0.12
(1,2361)	1:138:A:VAL:HA	1:156:A:ILE:HA	12	0.12
(1,2359)	1:106:A:GLU:HA	1:157:A:ILE:HA	8	0.12
(1,2359)	1:106:A:GLU:HA	1:157:A:ILE:HA	20	0.12
(1,2347)	1:127:A:VAL:HG11	2:5:B:6MZ:H1'	8	0.12
(1,2347)	1:127:A:VAL:HG12	2:5:B:6MZ:H1'	8	0.12
(1,2347)	1:127:A:VAL:HG13	2:5:B:6MZ:H1'	8	0.12
(1,2339)	1:120:A:ILE:HG21	2:5:B:6MZ:H1'	9	0.12
(1,2339)	1:120:A:ILE:HG22	2:5:B:6MZ:H1'	9	0.12
(1,2339)	1:120:A:ILE:HG23	2:5:B:6MZ:H1'	9	0.12
(1,2339)	1:120:A:ILE:HG21	2:5:B:6MZ:H1'	12	0.12
(1,2339)	1:120:A:ILE:HG22	2:5:B:6MZ:H1'	12	0.12
(1,2339)	1:120:A:ILE:HG23	2:5:B:6MZ:H1'	12	0.12
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	5	0.12
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	14	0.12
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	19	0.12
(1,2334)	2:4:B:G:H3'	2:4:B:G:H8	8	0.12
(1,2334)	2:4:B:G:H3'	2:4:B:G:H8	12	0.12
(1,2334)	2:4:B:G:H3'	2:4:B:G:H8	18	0.12
(1,2331)	2:3:B:G:H8	2:3:B:G:H2'	3	0.12
(1,2315)	2:2:B:C:H2'	2:3:B:G:H8	6	0.12
(1,2305)	2:5:B:6MZ:H2'	2:6:B:C:H5	14	0.12
(1,2300)	2:5:B:6MZ:H8	2:4:B:G:H1'	17	0.12
(1,2298)	2:5:B:6MZ:H8	2:6:B:C:H6	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2298)	2:5:B:6MZ:H8	2:6:B:C:H6	20	0.12
(1,2288)	1:91:A:LEU:H	1:90:A:LYS:HA	12	0.12
(1,2288)	1:91:A:LEU:H	1:90:A:LYS:HA	13	0.12
(1,2288)	1:91:A:LEU:H	1:90:A:LYS:HA	18	0.12
(1,2274)	1:22:A:GLN:HE22	1:21:A:GLU:HB2	17	0.12
(1,2264)	1:29:A:ILE:H	1:29:A:ILE:HB	5	0.12
(1,2259)	1:136:A:ALA:H	1:134:A:THR:HG21	5	0.12
(1,2228)	1:128:A:ASN:H	1:125:A:LYS:HA	6	0.12
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG22	5	0.12
(1,2219)	1:158:A:GLY:H	1:136:A:ALA:HA	14	0.12
(1,2219)	1:158:A:GLY:H	1:136:A:ALA:HA	16	0.12
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG12	7	0.12
(1,2208)	1:121:A:GLY:H	1:120:A:ILE:HB	14	0.12
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	11	0.12
(1,2173)	1:101:A:GLU:H	1:100:A:LYS:HD2	12	0.12
(1,2166)	1:178:A:LYS:H	1:177:A:VAL:HG13	7	0.12
(1,2158)	1:152:A:VAL:H	1:151:A:GLN:HB2	12	0.12
(1,2156)	1:57:A:LYS:H	1:72:A:VAL:HG11	14	0.12
(1,2150)	1:150:A:GLU:H	1:150:A:GLU:HB3	12	0.12
(1,2140)	1:149:A:ASN:H	1:150:A:GLU:H	5	0.12
(1,2132)	1:98:A:GLY:H	1:97:A:PHE:HA	13	0.12
(1,2121)	1:84:A:GLN:HE21	1:84:A:GLN:HG2	4	0.12
(1,2121)	1:84:A:GLN:HE21	1:84:A:GLN:HG2	17	0.12
(1,2121)	1:84:A:GLN:HE21	1:84:A:GLN:HG2	19	0.12
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	2	0.12
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	4	0.12
(1,2079)	1:143:A:ASP:H	1:143:A:ASP:HB3	10	0.12
(1,2028)	1:102:A:GLU:H	1:101:A:GLU:HA	10	0.12
(1,2015)	1:36:A:ALA:H	1:35:A:GLY:HA2	12	0.12
(1,2015)	1:36:A:ALA:H	1:35:A:GLY:HA2	14	0.12
(1,1993)	1:71:A:VAL:H	1:28:A:PHE:HA	16	0.12
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	4	0.12
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	6	0.12
(1,1939)	1:89:A:GLY:H	1:86:A:ARG:H	5	0.12
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	4	0.12
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	5	0.12
(1,1922)	1:149:A:ASN:HD22	1:149:A:ASN:HA	6	0.12
(1,1896)	1:154:A:VAL:H	1:109:A:ILE:HG12	18	0.12
(1,1883)	1:28:A:PHE:H	1:106:A:GLU:HB2	11	0.12
(1,1873)	1:113:A:ALA:H	1:151:A:GLN:H	3	0.12
(1,1873)	1:113:A:ALA:H	1:151:A:GLN:H	6	0.12
(1,1858)	1:139:A:VAL:H	1:138:A:VAL:HG11	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	12	0.12
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	19	0.12
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	8	0.12
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	13	0.12
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	15	0.12
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	18	0.12
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	15	0.12
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	17	0.12
(1,1759)	1:66:A:SER:H	1:66:A:SER:HA	17	0.12
(1,1755)	1:21:A:GLU:H	1:21:A:GLU:HG2	12	0.12
(1,1685)	1:149:A:ASN:H	1:148:A:GLU:HB2	16	0.12
(1,1684)	1:54:A:ALA:H	1:53:A:SER:HA	12	0.12
(1,1684)	1:54:A:ALA:H	1:53:A:SER:HA	16	0.12
(1,1684)	1:54:A:ALA:H	1:53:A:SER:HA	17	0.12
(1,1684)	1:54:A:ALA:H	1:53:A:SER:HA	18	0.12
(1,1684)	1:54:A:ALA:H	1:53:A:SER:HA	20	0.12
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	11	0.12
(1,1675)	1:24:A:THR:H	1:23:A:GLU:HG2	18	0.12
(1,1666)	1:101:A:GLU:H	1:101:A:GLU:HG2	20	0.12
(1,1645)	1:156:A:ILE:H	1:156:A:ILE:HG12	2	0.12
(1,1645)	1:156:A:ILE:H	1:156:A:ILE:HG12	4	0.12
(1,1645)	1:156:A:ILE:H	1:156:A:ILE:HG12	10	0.12
(1,1645)	1:156:A:ILE:H	1:156:A:ILE:HG12	20	0.12
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD12	4	0.12
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	2	0.12
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	3	0.12
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	6	0.12
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	14	0.12
(1,1604)	1:18:A:MET:HB2	1:18:A:MET:HB3	18	0.12
(1,1598)	1:127:A:VAL:HA	1:130:A:LEU:H	11	0.12
(1,1568)	1:37:A:ILE:HG12	1:29:A:ILE:HD11	19	0.12
(1,1564)	1:92:A:LYS:HD3	1:103:A:VAL:HG12	2	0.12
(1,1518)	1:22:A:GLN:HB3	1:22:A:GLN:HG3	19	0.12
(1,1514)	1:139:A:VAL:H	1:139:A:VAL:HG23	11	0.12
(1,1514)	1:139:A:VAL:H	1:139:A:VAL:HG23	15	0.12
(1,1483)	1:33:A:ALA:HA	1:36:A:ALA:HB2	14	0.12
(1,1458)	1:110:A:ARG:HD3	1:110:A:ARG:H	15	0.12
(1,1457)	1:110:A:ARG:HD2	1:110:A:ARG:H	15	0.12
(1,1451)	1:109:A:ILE:HD12	1:109:A:ILE:HG23	9	0.12
(1,1451)	1:109:A:ILE:HD13	1:109:A:ILE:HG22	14	0.12
(1,1442)	1:104:A:LYS:HB3	1:104:A:LYS:HE3	16	0.12
(1,1437)	1:159:A:HIS:HB2	1:159:A:HIS:HD2	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1437)	1:159:A:HIS:HB2	1:159:A:HIS:HD2	8	0.12
(1,1425)	1:56:A:ILE:HD13	1:56:A:ILE:HG12	5	0.12
(1,1402)	1:129:A:GLU:H	1:128:A:ASN:HB3	6	0.12
(1,1396)	1:91:A:LEU:HD22	1:30:A:PRO:HD3	15	0.12
(1,1386)	1:87:A:ILE:HD11	1:105:A:LEU:HD21	12	0.12
(1,1373)	1:94:A:GLU:HB2	1:96:A:PHE:HZ	6	0.12
(1,1373)	1:94:A:GLU:HB2	1:96:A:PHE:HZ	9	0.12
(1,1371)	1:68:A:VAL:HG21	1:69:A:ARG:H	4	0.12
(1,1366)	1:48:A:LEU:HD22	1:86:A:ARG:HD3	14	0.12
(1,1343)	1:110:A:ARG:HD3	1:110:A:ARG:HB3	13	0.12
(1,1298)	1:105:A:LEU:HG	1:30:A:PRO:HD3	1	0.12
(1,1294)	1:57:A:LYS:HB3	1:72:A:VAL:HG23	19	0.12
(1,1271)	1:94:A:GLU:HB3	1:96:A:PHE:HZ	11	0.12
(1,1267)	1:172:A:ASP:HB2	1:169:A:LYS:HA	9	0.12
(1,1204)	1:93:A:GLU:HB2	1:93:A:GLU:HG3	15	0.12
(1,1197)	1:172:A:ASP:HB3	1:169:A:LYS:HA	8	0.12
(1,1197)	1:172:A:ASP:HB3	1:169:A:LYS:HA	15	0.12
(1,1181)	1:173:A:ILE:HD11	1:119:A:VAL:HA	9	0.12
(1,1178)	1:30:A:PRO:HD2	1:29:A:ILE:HA	16	0.12
(1,1173)	1:45:A:ILE:HA	1:45:A:ILE:HG12	13	0.12
(1,1170)	1:38:A:ILE:HA	1:38:A:ILE:HG12	5	0.12
(1,1166)	1:70:A:MET:HA	1:70:A:MET:HG2	4	0.12
(1,1166)	1:70:A:MET:HA	1:70:A:MET:HG2	11	0.12
(1,1148)	1:140:A:VAL:HG22	1:140:A:VAL:HA	13	0.12
(1,1148)	1:140:A:VAL:HG23	1:140:A:VAL:HA	16	0.12
(1,1136)	1:110:A:ARG:HA	1:110:A:ARG:HG2	12	0.12
(1,1125)	1:87:A:ILE:H	1:87:A:ILE:HG12	9	0.12
(1,1098)	1:150:A:GLU:H	1:149:A:ASN:HA	14	0.12
(1,1098)	1:150:A:GLU:H	1:149:A:ASN:HA	17	0.12
(1,1098)	1:150:A:GLU:H	1:149:A:ASN:HA	20	0.12
(1,1092)	1:154:A:VAL:H	1:154:A:VAL:HB	12	0.12
(1,1092)	1:154:A:VAL:H	1:154:A:VAL:HB	15	0.12
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	10	0.12
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	11	0.12
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD12	2	0.12
(1,1064)	1:97:A:PHE:HE1	1:91:A:LEU:HD12	1	0.12
(1,1046)	1:97:A:PHE:HD1	1:91:A:LEU:HB2	18	0.12
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	2	0.12
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	7	0.12
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	8	0.12
(1,1029)	1:28:A:PHE:HD1	1:106:A:GLU:HG2	6	0.12
(1,1029)	1:28:A:PHE:HD1	1:106:A:GLU:HG2	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1023)	1:161:A:TYR:HD1	1:161:A:TYR:HA	3	0.12
(1,1019)	1:155:A:LYS:HE3	1:155:A:LYS:HG2	20	0.12
(1,1013)	1:166:A:ALA:HA	1:134:A:THR:HG23	4	0.12
(1,1012)	1:136:A:ALA:HA	1:162:A:ALA:HB2	4	0.12
(1,993)	1:18:A:MET:HA	1:19:A:PRO:HD2	5	0.12
(1,983)	1:48:A:LEU:HD23	1:83:A:ALA:HA	3	0.12
(1,981)	1:48:A:LEU:HD23	1:48:A:LEU:HD12	1	0.12
(1,947)	1:63:A:THR:HB	1:62:A:GLU:HG2	4	0.12
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD3	7	0.12
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD3	10	0.12
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD3	11	0.12
(1,909)	1:104:A:LYS:HE2	1:104:A:LYS:HD3	14	0.12
(1,899)	1:72:A:VAL:HG12	1:72:A:VAL:HB	14	0.12
(1,895)	1:170:A:ILE:HD12	1:166:A:ALA:HB1	7	0.12
(1,891)	1:45:A:ILE:HG21	1:45:A:ILE:HG13	4	0.12
(1,862)	1:90:A:LYS:HD3	1:90:A:LYS:HE2	3	0.12
(1,862)	1:90:A:LYS:HD3	1:90:A:LYS:HE2	6	0.12
(1,862)	1:90:A:LYS:HD3	1:90:A:LYS:HE2	9	0.12
(1,852)	1:174:A:LEU:HD13	1:174:A:LEU:HD21	17	0.12
(1,847)	1:102:A:GLU:HA	1:102:A:GLU:HG3	1	0.12
(1,837)	1:141:A:PRO:HD2	1:140:A:VAL:HA	6	0.12
(1,834)	1:45:A:ILE:HD11	1:57:A:LYS:HA	17	0.12
(1,831)	1:28:A:PHE:HB2	1:106:A:GLU:HB2	8	0.12
(1,815)	1:42:A:GLY:HA2	1:38:A:ILE:HG23	3	0.12
(1,812)	1:174:A:LEU:HD12	1:111:A:VAL:HG22	13	0.12
(1,806)	1:93:A:GLU:HB3	1:93:A:GLU:HA	12	0.12
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	3	0.12
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	18	0.12
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	20	0.12
(1,804)	1:50:A:ARG:HD2	1:50:A:ARG:HG3	14	0.12
(1,798)	1:48:A:LEU:HD11	1:48:A:LEU:HB3	15	0.12
(1,782)	1:105:A:LEU:HD12	1:105:A:LEU:HB3	6	0.12
(1,766)	1:157:A:ILE:HD13	1:106:A:GLU:HB3	11	0.12
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG23	7	0.12
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG22	9	0.12
(1,734)	1:153:A:ILE:HD11	1:153:A:ILE:HB	11	0.12
(1,731)	1:153:A:ILE:HG23	1:153:A:ILE:HD13	9	0.12
(1,722)	1:174:A:LEU:HD11	1:111:A:VAL:HG11	18	0.12
(1,709)	1:86:A:ARG:HB2	1:48:A:LEU:HD13	9	0.12
(1,709)	1:86:A:ARG:HB2	1:48:A:LEU:HD12	16	0.12
(1,708)	1:83:A:ALA:HA	1:48:A:LEU:HD12	2	0.12
(1,695)	1:21:A:GLU:HB3	1:21:A:GLU:HA	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,692)	1:115:A:ALA:HB2	1:111:A:VAL:HG22	16	0.12
(1,685)	1:116:A:ALA:HB2	1:140:A:VAL:HG13	15	0.12
(1,672)	1:45:A:ILE:HG13	1:45:A:ILE:HD11	3	0.12
(1,637)	1:87:A:ILE:HB	1:87:A:ILE:HD12	3	0.12
(1,637)	1:87:A:ILE:HB	1:87:A:ILE:HD12	7	0.12
(1,636)	1:152:A:VAL:HB	1:152:A:VAL:HG12	8	0.12
(1,622)	1:148:A:GLU:HG3	1:149:A:ASN:HA	1	0.12
(1,622)	1:148:A:GLU:HG3	1:149:A:ASN:HA	14	0.12
(1,622)	1:148:A:GLU:HG3	1:149:A:ASN:HA	17	0.12
(1,608)	1:174:A:LEU:HD12	1:112:A:PRO:HD3	2	0.12
(1,600)	1:24:A:THR:HB	1:24:A:THR:HG21	2	0.12
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG22	8	0.12
(1,586)	1:107:A:THR:HB	1:107:A:THR:HG23	7	0.12
(1,586)	1:107:A:THR:HB	1:107:A:THR:HG22	14	0.12
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	4	0.12
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	16	0.12
(1,576)	1:75:A:GLY:HA2	1:76:A:PRO:HD2	20	0.12
(1,574)	1:175:A:ALA:HA	1:175:A:ALA:HB3	11	0.12
(1,574)	1:175:A:ALA:HA	1:175:A:ALA:HB2	13	0.12
(1,574)	1:175:A:ALA:HA	1:175:A:ALA:HB3	16	0.12
(1,574)	1:175:A:ALA:HA	1:175:A:ALA:HB2	19	0.12
(1,571)	1:86:A:ARG:HA	1:86:A:ARG:HB2	19	0.12
(1,571)	1:86:A:ARG:HA	1:86:A:ARG:HB2	20	0.12
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	3	0.12
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	10	0.12
(1,550)	1:58:A:ILE:HA	1:58:A:ILE:HD12	7	0.12
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG21	6	0.12
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG21	9	0.12
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG22	20	0.12
(1,529)	1:167:A:GLN:HE22	1:25:A:VAL:HG13	9	0.12
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	2	0.12
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	5	0.12
(1,520)	1:127:A:VAL:HG12	1:137:A:GLU:HA	19	0.12
(1,518)	1:142:A:ARG:HA	1:142:A:ARG:HB2	10	0.12
(1,516)	1:122:A:LYS:H	1:122:A:LYS:HD2	19	0.12
(1,492)	1:103:A:VAL:HG12	1:103:A:VAL:HG23	12	0.12
(1,491)	1:102:A:GLU:HA	1:102:A:GLU:HB3	16	0.12
(1,470)	1:14:A:PHE:H	1:14:A:PHE:HB2	9	0.12
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	5	0.12
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	6	0.12
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	14	0.12
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	17	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	18	0.12
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	19	0.12
(1,451)	1:166:A:ALA:HB1	1:134:A:THR:HB	8	0.12
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG13	8	0.12
(1,431)	1:139:A:VAL:H	1:139:A:VAL:HG23	18	0.12
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	2	0.12
(1,391)	1:22:A:GLN:HE21	1:22:A:GLN:HG2	8	0.12
(1,391)	1:22:A:GLN:HE21	1:22:A:GLN:HG2	18	0.12
(1,373)	1:93:A:GLU:H	1:90:A:LYS:HA	19	0.12
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	7	0.12
(1,364)	1:58:A:ILE:H	1:58:A:ILE:HG13	1	0.12
(1,364)	1:58:A:ILE:H	1:58:A:ILE:HG13	12	0.12
(1,364)	1:58:A:ILE:H	1:58:A:ILE:HG13	17	0.12
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD11	1	0.12
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD13	6	0.12
(1,361)	1:71:A:VAL:HA	1:71:A:VAL:HG23	5	0.12
(1,345)	1:177:A:VAL:H	1:177:A:VAL:HG13	17	0.12
(1,345)	1:177:A:VAL:H	1:177:A:VAL:HG13	19	0.12
(1,328)	1:109:A:ILE:HD13	1:109:A:ILE:HB	9	0.12
(1,325)	1:159:A:HIS:HD2	1:159:A:HIS:HA	19	0.12
(1,257)	1:97:A:PHE:H	1:97:A:PHE:HB2	13	0.12
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	10	0.12
(1,251)	1:82:A:LYS:HA	1:82:A:LYS:HD3	18	0.12
(1,243)	1:33:A:ALA:HB3	1:96:A:PHE:HB2	1	0.12
(1,238)	1:48:A:LEU:HD23	1:83:A:ALA:HB1	2	0.12
(1,238)	1:48:A:LEU:HD23	1:83:A:ALA:HB3	6	0.12
(1,227)	1:105:A:LEU:HD11	1:105:A:LEU:HD22	18	0.12
(1,220)	1:74:A:THR:HG21	1:55:A:SER:HB2	20	0.12
(1,215)	1:115:A:ALA:HB3	1:177:A:VAL:HG21	14	0.12
(1,207)	1:178:A:LYS:HG3	1:178:A:LYS:HA	8	0.12
(1,207)	1:178:A:LYS:HG3	1:178:A:LYS:HA	9	0.12
(1,207)	1:178:A:LYS:HG3	1:178:A:LYS:HA	10	0.12
(1,200)	1:56:A:ILE:HB	1:56:A:ILE:HG22	5	0.12
(1,186)	1:170:A:ILE:HA	1:170:A:ILE:HB	1	0.12
(1,186)	1:170:A:ILE:HA	1:170:A:ILE:HB	13	0.12
(1,183)	1:22:A:GLN:HB2	1:22:A:GLN:HG3	17	0.12
(1,164)	1:73:A:ILE:HB	1:84:A:GLN:HG2	12	0.12
(1,164)	1:73:A:ILE:HB	1:84:A:GLN:HG2	15	0.12
(1,157)	1:94:A:GLU:HA	1:94:A:GLU:HG2	3	0.12
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG12	12	0.12
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG12	18	0.12
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG11	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	7	0.12
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	9	0.12
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	14	0.12
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	4	0.12
(1,132)	1:32:A:GLN:HA	1:32:A:GLN:HG2	11	0.12
(1,132)	1:32:A:GLN:HA	1:32:A:GLN:HG2	15	0.12
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	3	0.12
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	5	0.12
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	10	0.12
(1,120)	1:37:A:ILE:HG21	1:37:A:ILE:HA	2	0.12
(1,119)	1:77:A:PRO:HD3	1:76:A:PRO:HB2	5	0.12
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	1	0.12
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	2	0.12
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	11	0.12
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	12	0.12
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	13	0.12
(1,104)	1:45:A:ILE:HA	1:48:A:LEU:HB3	15	0.12
(1,104)	1:45:A:ILE:HA	1:48:A:LEU:HB3	18	0.12
(1,87)	1:148:A:GLU:HA	1:148:A:GLU:HB2	6	0.12
(1,73)	1:101:A:GLU:HA	1:101:A:GLU:HG2	14	0.12
(1,48)	1:56:A:ILE:HA	1:56:A:ILE:HG23	11	0.12
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD11	6	0.12
(1,23)	1:165:A:MET:H	1:162:A:ALA:HA	1	0.12
(1,23)	1:165:A:MET:H	1:162:A:ALA:HA	2	0.12
(3,1)	1:140:A:VAL:O	2:5:B:6MZ:N6	18	0.11
(1,2483)	2:5:B:6MZ:H1'	2:4:B:G:H5'	1	0.11
(1,2480)	2:1:B:U:H1'	2:2:B:C:H3'	15	0.11
(1,2465)	1:120:A:ILE:HG21	2:4:B:G:H5'	1	0.11
(1,2465)	1:120:A:ILE:HG22	2:4:B:G:H5'	1	0.11
(1,2465)	1:120:A:ILE:HG23	2:4:B:G:H5'	1	0.11
(1,2465)	1:120:A:ILE:HG21	2:4:B:G:H5'	10	0.11
(1,2465)	1:120:A:ILE:HG22	2:4:B:G:H5'	10	0.11
(1,2465)	1:120:A:ILE:HG23	2:4:B:G:H5'	10	0.11
(1,2465)	1:120:A:ILE:HG21	2:4:B:G:H5'	12	0.11
(1,2465)	1:120:A:ILE:HG22	2:4:B:G:H5'	12	0.11
(1,2465)	1:120:A:ILE:HG23	2:4:B:G:H5'	12	0.11
(1,2465)	1:120:A:ILE:HG21	2:4:B:G:H5'	13	0.11
(1,2465)	1:120:A:ILE:HG22	2:4:B:G:H5'	13	0.11
(1,2465)	1:120:A:ILE:HG23	2:4:B:G:H5'	13	0.11
(1,2460)	1:122:A:LYS:HG2	2:2:B:C:H5"	5	0.11
(1,2460)	1:122:A:LYS:HG2	2:2:B:C:H5'	5	0.11
(1,2456)	1:118:A:ARG:HB2	2:2:B:C:H5"	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2456)	1:118:A:ARG:HB3	2:2:B:C:H5”	19	0.11
(1,2455)	1:118:A:ARG:HD3	2:1:B:U:H1’	17	0.11
(1,2446)	2:7:B:U:H5	2:7:B:U:H2’	4	0.11
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	16	0.11
(1,2407)	1:180:A:GLN:H	1:181:A:HIS:H	20	0.11
(1,2406)	1:179:A:GLN:H	1:180:A:GLN:H	6	0.11
(1,2406)	1:179:A:GLN:H	1:180:A:GLN:H	20	0.11
(1,2401)	1:174:A:LEU:H	1:175:A:ALA:H	2	0.11
(1,2401)	1:174:A:LEU:H	1:175:A:ALA:H	3	0.11
(1,2401)	1:174:A:LEU:H	1:175:A:ALA:H	5	0.11
(1,2401)	1:174:A:LEU:H	1:175:A:ALA:H	6	0.11
(1,2399)	1:172:A:ASP:H	1:173:A:ILE:H	2	0.11
(1,2399)	1:172:A:ASP:H	1:173:A:ILE:H	7	0.11
(1,2399)	1:172:A:ASP:H	1:173:A:ILE:H	18	0.11
(1,2398)	1:171:A:ARG:H	1:172:A:ASP:H	4	0.11
(1,2397)	1:170:A:ILE:H	1:171:A:ARG:H	9	0.11
(1,2396)	1:169:A:LYS:H	1:170:A:ILE:H	2	0.11
(1,2396)	1:169:A:LYS:H	1:170:A:ILE:H	4	0.11
(1,2396)	1:169:A:LYS:H	1:170:A:ILE:H	20	0.11
(1,2395)	1:168:A:ARG:H	1:169:A:LYS:H	2	0.11
(1,2395)	1:168:A:ARG:H	1:169:A:LYS:H	10	0.11
(1,2395)	1:168:A:ARG:H	1:169:A:LYS:H	13	0.11
(1,2395)	1:168:A:ARG:H	1:169:A:LYS:H	16	0.11
(1,2388)	1:177:A:VAL:HA	1:180:A:GLN:H	1	0.11
(1,2388)	1:177:A:VAL:HA	1:180:A:GLN:H	5	0.11
(1,2385)	1:174:A:LEU:HA	1:177:A:VAL:H	13	0.11
(1,2385)	1:174:A:LEU:HA	1:177:A:VAL:H	17	0.11
(1,2379)	1:168:A:ARG:HA	1:171:A:ARG:H	6	0.11
(1,2378)	1:167:A:GLN:HA	1:170:A:ILE:H	5	0.11
(1,2367)	1:26:A:HIS:HA	1:72:A:VAL:HA	8	0.11
(1,2367)	1:26:A:HIS:HA	1:72:A:VAL:HA	17	0.11
(1,2359)	1:106:A:GLU:HA	1:157:A:ILE:HA	14	0.11
(1,2355)	2:2:B:C:H5	2:1:B:U:H2’	20	0.11
(1,2341)	1:118:A:ARG:HB2	2:2:B:C:H5	1	0.11
(1,2341)	1:118:A:ARG:HB3	2:2:B:C:H5	1	0.11
(1,2341)	1:118:A:ARG:HB2	2:2:B:C:H5	8	0.11
(1,2341)	1:118:A:ARG:HB3	2:2:B:C:H5	8	0.11
(1,2339)	1:120:A:ILE:HG21	2:5:B:6MZ:H1’	5	0.11
(1,2339)	1:120:A:ILE:HG22	2:5:B:6MZ:H1’	5	0.11
(1,2339)	1:120:A:ILE:HG23	2:5:B:6MZ:H1’	5	0.11
(1,2336)	2:3:B:G:H4’	2:4:B:G:H8	6	0.11
(1,2336)	2:3:B:G:H4’	2:4:B:G:H8	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	13	0.11
(1,2334)	2:4:B:G:H3'	2:4:B:G:H8	1	0.11
(1,2334)	2:4:B:G:H3'	2:4:B:G:H8	2	0.11
(1,2334)	2:4:B:G:H3'	2:4:B:G:H8	15	0.11
(1,2327)	1:140:A:VAL:HG21	2:4:B:G:H1'	5	0.11
(1,2327)	1:140:A:VAL:HG22	2:4:B:G:H1'	5	0.11
(1,2327)	1:140:A:VAL:HG23	2:4:B:G:H1'	5	0.11
(1,2327)	1:140:A:VAL:HG21	2:4:B:G:H1'	7	0.11
(1,2327)	1:140:A:VAL:HG22	2:4:B:G:H1'	7	0.11
(1,2327)	1:140:A:VAL:HG23	2:4:B:G:H1'	7	0.11
(1,2315)	2:2:B:C:H2'	2:3:B:G:H8	4	0.11
(1,2315)	2:2:B:C:H2'	2:3:B:G:H8	5	0.11
(1,2315)	2:2:B:C:H2'	2:3:B:G:H8	7	0.11
(1,2315)	2:2:B:C:H2'	2:3:B:G:H8	15	0.11
(1,2311)	2:5:B:6MZ:H3'	2:6:B:C:H5	14	0.11
(1,2311)	2:5:B:6MZ:H3'	2:6:B:C:H5	15	0.11
(1,2305)	2:5:B:6MZ:H2'	2:6:B:C:H5	4	0.11
(1,2305)	2:5:B:6MZ:H2'	2:6:B:C:H5	8	0.11
(1,2305)	2:5:B:6MZ:H2'	2:6:B:C:H5	19	0.11
(1,2303)	2:5:B:6MZ:H2	2:6:B:C:H1'	3	0.11
(1,2303)	2:5:B:6MZ:H2	2:6:B:C:H1'	12	0.11
(1,2303)	2:5:B:6MZ:H2	2:6:B:C:H1'	14	0.11
(1,2300)	2:5:B:6MZ:H8	2:4:B:G:H1'	3	0.11
(1,2300)	2:5:B:6MZ:H8	2:4:B:G:H1'	12	0.11
(1,2298)	2:5:B:6MZ:H8	2:6:B:C:H6	9	0.11
(1,2298)	2:5:B:6MZ:H8	2:6:B:C:H6	12	0.11
(1,2288)	1:91:A:LEU:H	1:90:A:LYS:HA	2	0.11
(1,2288)	1:91:A:LEU:H	1:90:A:LYS:HA	7	0.11
(1,2288)	1:91:A:LEU:H	1:90:A:LYS:HA	8	0.11
(1,2288)	1:91:A:LEU:H	1:90:A:LYS:HA	10	0.11
(1,2288)	1:91:A:LEU:H	1:90:A:LYS:HA	17	0.11
(1,2281)	1:50:A:ARG:H	1:49:A:SER:HB2	2	0.11
(1,2274)	1:22:A:GLN:HE22	1:21:A:GLU:HB2	1	0.11
(1,2242)	1:18:A:MET:H	1:18:A:MET:HG2	16	0.11
(1,2220)	1:143:A:ASP:H	1:142:A:ARG:HB2	8	0.11
(1,2219)	1:158:A:GLY:H	1:136:A:ALA:HA	6	0.11
(1,2218)	1:105:A:LEU:H	1:104:A:LYS:H	20	0.11
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG12	3	0.11
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG13	6	0.11
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG11	13	0.11
(1,2209)	1:119:A:VAL:H	1:116:A:ALA:HA	18	0.11
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB3	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2191)	1:90:A:LYS:H	1:90:A:LYS:HD2	17	0.11
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	5	0.11
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	9	0.11
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	11	0.11
(1,2134)	1:63:A:THR:H	1:63:A:THR:HG22	8	0.11
(1,2117)	1:95:A:ASN:HD22	1:95:A:ASN:HB3	19	0.11
(1,2116)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	4	0.11
(1,2116)	1:95:A:ASN:HD22	1:95:A:ASN:HB2	9	0.11
(1,2015)	1:36:A:ALA:H	1:35:A:GLY:HA2	11	0.11
(1,2015)	1:36:A:ALA:H	1:35:A:GLY:HA2	13	0.11
(1,2015)	1:36:A:ALA:H	1:35:A:GLY:HA2	15	0.11
(1,2015)	1:36:A:ALA:H	1:35:A:GLY:HA2	16	0.11
(1,2015)	1:36:A:ALA:H	1:35:A:GLY:HA2	17	0.11
(1,2015)	1:36:A:ALA:H	1:35:A:GLY:HA2	19	0.11
(1,2015)	1:36:A:ALA:H	1:35:A:GLY:HA2	20	0.11
(1,1968)	1:131:A:GLN:HE22	1:131:A:GLN:HG3	16	0.11
(1,1966)	1:117:A:GLY:H	1:115:A:ALA:H	2	0.11
(1,1960)	1:101:A:GLU:H	1:97:A:PHE:HD2	4	0.11
(1,1952)	1:81:A:PHE:H	1:80:A:GLN:HB2	2	0.11
(1,1942)	1:45:A:ILE:H	1:38:A:ILE:HA	14	0.11
(1,1942)	1:45:A:ILE:H	1:38:A:ILE:HA	17	0.11
(1,1942)	1:45:A:ILE:H	1:38:A:ILE:HA	20	0.11
(1,1939)	1:89:A:GLY:H	1:86:A:ARG:H	8	0.11
(1,1936)	1:68:A:VAL:H	1:31:A:ALA:H	11	0.11
(1,1936)	1:68:A:VAL:H	1:31:A:ALA:H	13	0.11
(1,1931)	1:152:A:VAL:H	1:110:A:ARG:HA	10	0.11
(1,1927)	1:96:A:PHE:H	1:94:A:GLU:HB3	15	0.11
(1,1920)	1:55:A:SER:H	1:56:A:ILE:H	6	0.11
(1,1913)	1:151:A:GLN:H	1:151:A:GLN:HG3	5	0.11
(1,1903)	1:170:A:ILE:H	1:168:A:ARG:HA	8	0.11
(1,1903)	1:170:A:ILE:H	1:168:A:ARG:HA	15	0.11
(1,1902)	1:69:A:ARG:H	1:28:A:PHE:HA	4	0.11
(1,1902)	1:69:A:ARG:H	1:28:A:PHE:HA	11	0.11
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	16	0.11
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	17	0.11
(1,1843)	1:105:A:LEU:H	1:105:A:LEU:HG	7	0.11
(1,1824)	1:173:A:ILE:H	1:172:A:ASP:HA	15	0.11
(1,1780)	1:102:A:GLU:H	1:102:A:GLU:HB2	9	0.11
(1,1780)	1:102:A:GLU:H	1:102:A:GLU:HB2	13	0.11
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	7	0.11
(1,1779)	1:93:A:GLU:H	1:92:A:LYS:HA	18	0.11
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	20	0.11
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	18	0.11
(1,1743)	1:98:A:GLY:H	1:97:A:PHE:HB2	10	0.11
(1,1721)	1:49:A:SER:H	1:48:A:LEU:HB2	16	0.11
(1,1706)	1:66:A:SER:H	1:66:A:SER:HB3	5	0.11
(1,1700)	1:167:A:GLN:H	1:167:A:GLN:HB3	10	0.11
(1,1684)	1:54:A:ALA:H	1:53:A:SER:HA	2	0.11
(1,1645)	1:156:A:ILE:H	1:156:A:ILE:HG12	6	0.11
(1,1645)	1:156:A:ILE:H	1:156:A:ILE:HG12	7	0.11
(1,1645)	1:156:A:ILE:H	1:156:A:ILE:HG12	9	0.11
(1,1645)	1:156:A:ILE:H	1:156:A:ILE:HG12	17	0.11
(1,1628)	1:74:A:THR:H	1:56:A:ILE:HA	10	0.11
(1,1624)	1:72:A:VAL:H	1:58:A:ILE:HA	18	0.11
(1,1623)	1:59:A:ALA:H	1:58:A:ILE:HD11	3	0.11
(1,1608)	1:103:A:VAL:H	1:102:A:GLU:HG2	6	0.11
(1,1592)	1:142:A:ARG:HD2	1:142:A:ARG:HB2	1	0.11
(1,1564)	1:92:A:LYS:HD3	1:103:A:VAL:HG12	7	0.11
(1,1518)	1:22:A:GLN:HB3	1:22:A:GLN:HG3	20	0.11
(1,1510)	1:93:A:GLU:HG2	1:94:A:GLU:H	4	0.11
(1,1506)	1:94:A:GLU:H	1:91:A:LEU:HA	3	0.11
(1,1470)	1:161:A:TYR:HB3	1:162:A:ALA:H	1	0.11
(1,1470)	1:161:A:TYR:HB3	1:162:A:ALA:H	4	0.11
(1,1469)	1:161:A:TYR:H	1:161:A:TYR:HB3	2	0.11
(1,1469)	1:161:A:TYR:H	1:161:A:TYR:HB3	6	0.11
(1,1460)	1:154:A:VAL:H	1:153:A:ILE:HB	12	0.11
(1,1451)	1:109:A:ILE:HD11	1:109:A:ILE:HG23	20	0.11
(1,1393)	1:90:A:LYS:HG2	1:90:A:LYS:HD2	19	0.11
(1,1372)	1:89:A:GLY:H	1:88:A:TYR:HB3	3	0.11
(1,1344)	1:153:A:ILE:HG21	1:110:A:ARG:HD3	19	0.11
(1,1317)	1:150:A:GLU:HG2	1:113:A:ALA:HB2	19	0.11
(1,1310)	1:136:A:ALA:H	1:135:A:ALA:HA	13	0.11
(1,1310)	1:136:A:ALA:H	1:135:A:ALA:HA	16	0.11
(1,1294)	1:57:A:LYS:HB3	1:72:A:VAL:HG22	13	0.11
(1,1293)	1:57:A:LYS:HB3	1:72:A:VAL:HB	14	0.11
(1,1273)	1:96:A:PHE:HZ	1:94:A:GLU:HG2	16	0.11
(1,1273)	1:96:A:PHE:HZ	1:94:A:GLU:HG2	20	0.11
(1,1271)	1:94:A:GLU:HB3	1:96:A:PHE:HZ	16	0.11
(1,1267)	1:172:A:ASP:HB2	1:169:A:LYS:HA	10	0.11
(1,1181)	1:173:A:ILE:HD11	1:119:A:VAL:HA	3	0.11
(1,1179)	1:37:A:ILE:HG13	1:37:A:ILE:HA	1	0.11
(1,1170)	1:38:A:ILE:HA	1:38:A:ILE:HG12	7	0.11
(1,1148)	1:140:A:VAL:HG23	1:140:A:VAL:HA	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1131)	1:34:A:VAL:H	1:34:A:VAL:HG13	1	0.11
(1,1125)	1:87:A:ILE:H	1:87:A:ILE:HG12	12	0.11
(1,1125)	1:87:A:ILE:H	1:87:A:ILE:HG12	15	0.11
(1,1117)	1:95:A:ASN:H	1:95:A:ASN:HB2	3	0.11
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD11	5	0.11
(1,1098)	1:150:A:GLU:H	1:149:A:ASN:HA	16	0.11
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	14	0.11
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	16	0.11
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD12	1	0.11
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	5	0.11
(1,1070)	1:88:A:TYR:HE1	1:103:A:VAL:HG23	13	0.11
(1,1058)	1:26:A:HIS:HD2	1:72:A:VAL:HG12	17	0.11
(1,1054)	1:108:A:HIS:HD2	1:155:A:LYS:HB3	16	0.11
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	9	0.11
(1,1016)	1:126:A:THR:HG21	1:173:A:ILE:HD12	18	0.11
(1,1012)	1:136:A:ALA:HA	1:162:A:ALA:HB2	7	0.11
(1,999)	1:157:A:ILE:HG23	1:104:A:LYS:HA	3	0.11
(1,993)	1:18:A:MET:HA	1:19:A:PRO:HD2	6	0.11
(1,993)	1:18:A:MET:HA	1:19:A:PRO:HD2	18	0.11
(1,981)	1:48:A:LEU:HD23	1:48:A:LEU:HD11	7	0.11
(1,981)	1:48:A:LEU:HD22	1:48:A:LEU:HD12	13	0.11
(1,981)	1:48:A:LEU:HD22	1:48:A:LEU:HD11	17	0.11
(1,977)	1:28:A:PHE:HA	1:68:A:VAL:HB	15	0.11
(1,977)	1:28:A:PHE:HA	1:68:A:VAL:HB	20	0.11
(1,962)	1:178:A:LYS:HE2	1:175:A:ALA:HA	20	0.11
(1,956)	1:54:A:ALA:HA	1:55:A:SER:HB2	11	0.11
(1,952)	1:131:A:GLN:HB2	1:128:A:ASN:HA	14	0.11
(1,945)	1:139:A:VAL:HG12	1:141:A:PRO:HD3	10	0.11
(1,937)	1:24:A:THR:HG22	1:74:A:THR:HA	4	0.11
(1,937)	1:24:A:THR:HG22	1:74:A:THR:HA	7	0.11
(1,937)	1:24:A:THR:HG22	1:74:A:THR:HA	10	0.11
(1,937)	1:24:A:THR:HG21	1:74:A:THR:HA	18	0.11
(1,895)	1:170:A:ILE:HD11	1:166:A:ALA:HB3	1	0.11
(1,884)	1:152:A:VAL:HG21	1:152:A:VAL:HG11	11	0.11
(1,876)	1:109:A:ILE:HG23	1:107:A:THR:HG23	4	0.11
(1,852)	1:174:A:LEU:HD11	1:174:A:LEU:HD23	18	0.11
(1,852)	1:174:A:LEU:HD12	1:174:A:LEU:HD22	19	0.11
(1,849)	1:34:A:VAL:HG11	1:69:A:ARG:HB3	16	0.11
(1,847)	1:102:A:GLU:HA	1:102:A:GLU:HG3	4	0.11
(1,847)	1:102:A:GLU:HA	1:102:A:GLU:HG3	6	0.11
(1,837)	1:141:A:PRO:HD2	1:140:A:VAL:HA	14	0.11
(1,808)	1:71:A:VAL:HG22	1:71:A:VAL:HB	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,808)	1:71:A:VAL:HG21	1:71:A:VAL:HB	7	0.11
(1,808)	1:71:A:VAL:HG21	1:71:A:VAL:HB	15	0.11
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	2	0.11
(1,805)	1:50:A:ARG:HA	1:50:A:ARG:HD2	15	0.11
(1,799)	1:48:A:LEU:HD12	1:48:A:LEU:HB2	5	0.11
(1,799)	1:48:A:LEU:HD11	1:48:A:LEU:HB2	12	0.11
(1,798)	1:48:A:LEU:HD13	1:48:A:LEU:HB3	12	0.11
(1,784)	1:34:A:VAL:HG13	1:58:A:ILE:HD13	12	0.11
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG22	6	0.11
(1,754)	1:75:A:GLY:HA2	1:74:A:THR:HG22	18	0.11
(1,746)	1:173:A:ILE:HD13	1:173:A:ILE:HB	15	0.11
(1,734)	1:153:A:ILE:HD12	1:153:A:ILE:HB	19	0.11
(1,700)	1:119:A:VAL:HB	1:170:A:ILE:HG12	15	0.11
(1,692)	1:115:A:ALA:HB2	1:111:A:VAL:HG22	14	0.11
(1,679)	1:58:A:ILE:HG13	1:58:A:ILE:HD11	18	0.11
(1,672)	1:45:A:ILE:HG13	1:45:A:ILE:HD11	6	0.11
(1,672)	1:45:A:ILE:HG13	1:45:A:ILE:HD13	8	0.11
(1,640)	1:34:A:VAL:HB	1:34:A:VAL:HG12	2	0.11
(1,636)	1:152:A:VAL:HB	1:152:A:VAL:HG13	1	0.11
(1,622)	1:148:A:GLU:HG3	1:149:A:ASN:HA	4	0.11
(1,622)	1:148:A:GLU:HG3	1:149:A:ASN:HA	10	0.11
(1,608)	1:174:A:LEU:HD13	1:112:A:PRO:HD3	4	0.11
(1,602)	1:144:A:GLN:HG2	1:141:A:PRO:HD2	15	0.11
(1,596)	1:177:A:VAL:HA	1:177:A:VAL:HG22	16	0.11
(1,586)	1:107:A:THR:HB	1:107:A:THR:HG22	17	0.11
(1,586)	1:107:A:THR:HB	1:107:A:THR:HG22	19	0.11
(1,574)	1:175:A:ALA:HA	1:175:A:ALA:HB3	2	0.11
(1,574)	1:175:A:ALA:HA	1:175:A:ALA:HB2	15	0.11
(1,574)	1:175:A:ALA:HA	1:175:A:ALA:HB3	17	0.11
(1,571)	1:86:A:ARG:HA	1:86:A:ARG:HB2	16	0.11
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	11	0.11
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	18	0.11
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	20	0.11
(1,564)	1:71:A:VAL:HA	1:71:A:VAL:HG13	19	0.11
(1,531)	1:74:A:THR:HA	1:74:A:THR:HG21	11	0.11
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	13	0.11
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	18	0.11
(1,514)	1:122:A:LYS:H	1:122:A:LYS:HB3	19	0.11
(1,489)	1:100:A:LYS:HG2	1:100:A:LYS:HB3	15	0.11
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	7	0.11
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	4	0.11
(1,444)	1:28:A:PHE:H	1:27:A:VAL:HG13	16	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	20	0.11
(1,391)	1:22:A:GLN:HE21	1:22:A:GLN:HG2	7	0.11
(1,387)	1:173:A:ILE:HA	1:173:A:ILE:HG22	20	0.11
(1,380)	1:103:A:VAL:H	1:102:A:GLU:HA	10	0.11
(1,378)	1:57:A:LYS:H	1:57:A:LYS:HG3	7	0.11
(1,368)	1:130:A:LEU:HD11	1:130:A:LEU:HB3	3	0.11
(1,367)	1:127:A:VAL:HA	1:130:A:LEU:HB3	3	0.11
(1,362)	1:73:A:ILE:HB	1:73:A:ILE:HD11	4	0.11
(1,349)	1:48:A:LEU:HA	1:48:A:LEU:HB2	16	0.11
(1,345)	1:177:A:VAL:H	1:177:A:VAL:HG11	18	0.11
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB2	1	0.11
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB2	6	0.11
(1,333)	1:32:A:GLN:H	1:31:A:ALA:HB3	7	0.11
(1,325)	1:159:A:HIS:HD2	1:159:A:HIS:HA	14	0.11
(1,300)	1:74:A:THR:H	1:55:A:SER:HB2	15	0.11
(1,296)	1:138:A:VAL:HG12	1:138:A:VAL:HG22	1	0.11
(1,286)	1:45:A:ILE:HG13	1:56:A:ILE:HG22	13	0.11
(1,257)	1:97:A:PHE:H	1:97:A:PHE:HB2	12	0.11
(1,257)	1:97:A:PHE:H	1:97:A:PHE:HB2	14	0.11
(1,257)	1:97:A:PHE:H	1:97:A:PHE:HB2	15	0.11
(1,257)	1:97:A:PHE:H	1:97:A:PHE:HB2	18	0.11
(1,222)	1:38:A:ILE:HG21	1:38:A:ILE:HD13	1	0.11
(1,222)	1:38:A:ILE:HG22	1:38:A:ILE:HD13	3	0.11
(1,222)	1:38:A:ILE:HG22	1:38:A:ILE:HD11	4	0.11
(1,207)	1:178:A:LYS:HG3	1:178:A:LYS:HA	7	0.11
(1,191)	1:94:A:GLU:HB3	1:94:A:GLU:HA	1	0.11
(1,186)	1:170:A:ILE:HA	1:170:A:ILE:HB	14	0.11
(1,186)	1:170:A:ILE:HA	1:170:A:ILE:HB	17	0.11
(1,174)	1:164:A:GLN:HG2	1:164:A:GLN:HA	10	0.11
(1,157)	1:94:A:GLU:HA	1:94:A:GLU:HG2	9	0.11
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	4	0.11
(1,155)	1:131:A:GLN:HB2	1:131:A:GLN:HG2	12	0.11
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	13	0.11
(1,145)	1:141:A:PRO:HB2	1:141:A:PRO:HG2	20	0.11
(1,133)	1:165:A:MET:HG2	1:165:A:MET:HA	15	0.11
(1,132)	1:32:A:GLN:HA	1:32:A:GLN:HG2	13	0.11
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	13	0.11
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	17	0.11
(1,104)	1:45:A:ILE:HA	1:48:A:LEU:HB3	12	0.11
(1,43)	1:34:A:VAL:H	1:33:A:ALA:HA	15	0.11
(1,39)	1:119:A:VAL:H	1:119:A:VAL:HG11	5	0.11
(1,39)	1:119:A:VAL:H	1:119:A:VAL:HG12	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	1:173:A:ILE:H	1:173:A:ILE:HD11	14	0.11
(1,23)	1:165:A:MET:H	1:162:A:ALA:HA	18	0.11
(1,20)	1:158:A:GLY:H	1:157:A:ILE:HG23	18	0.11
(3,1)	1:140:A:VAL:O	2:5:B:6MZ:N6	11	0.1
(2,2)	1:142:A:ARG:NH1	2:5:B:6MZ:OP1	15	0.1
(1,2422)	2:3:B:G:H8	2:2:B:C:H4'	20	0.1
(1,2401)	1:174:A:LEU:H	1:175:A:ALA:H	1	0.1
(1,2401)	1:174:A:LEU:H	1:175:A:ALA:H	4	0.1
(1,2401)	1:174:A:LEU:H	1:175:A:ALA:H	8	0.1
(1,2401)	1:174:A:LEU:H	1:175:A:ALA:H	10	0.1
(1,2400)	1:173:A:ILE:H	1:174:A:LEU:H	2	0.1
(1,2398)	1:171:A:ARG:H	1:172:A:ASP:H	5	0.1
(1,2398)	1:171:A:ARG:H	1:172:A:ASP:H	8	0.1
(1,2397)	1:170:A:ILE:H	1:171:A:ARG:H	18	0.1
(1,2396)	1:169:A:LYS:H	1:170:A:ILE:H	6	0.1
(1,2396)	1:169:A:LYS:H	1:170:A:ILE:H	16	0.1
(1,2396)	1:169:A:LYS:H	1:170:A:ILE:H	19	0.1
(1,2395)	1:168:A:ARG:H	1:169:A:LYS:H	6	0.1
(1,2395)	1:168:A:ARG:H	1:169:A:LYS:H	8	0.1
(1,2395)	1:168:A:ARG:H	1:169:A:LYS:H	12	0.1
(1,2393)	1:166:A:ALA:H	1:167:A:GLN:H	4	0.1
(1,2393)	1:166:A:ALA:H	1:167:A:GLN:H	7	0.1
(1,2380)	1:169:A:LYS:HA	1:172:A:ASP:H	9	0.1
(1,2380)	1:169:A:LYS:HA	1:172:A:ASP:H	10	0.1
(1,2369)	1:28:A:PHE:HA	1:70:A:MET:HA	16	0.1
(1,2356)	1:107:A:THR:HA	1:27:A:VAL:HA	11	0.1
(1,2344)	2:2:B:C:H6	2:1:B:U:H3'	19	0.1
(1,2342)	2:2:B:C:H6	2:2:B:C:H5'	15	0.1
(1,2336)	2:3:B:G:H4'	2:4:B:G:H8	17	0.1
(1,2311)	2:5:B:6MZ:H3'	2:6:B:C:H5	8	0.1
(1,2305)	2:5:B:6MZ:H2'	2:6:B:C:H5	1	0.1
(1,2305)	2:5:B:6MZ:H2'	2:6:B:C:H5	15	0.1
(1,2305)	2:5:B:6MZ:H2'	2:6:B:C:H5	17	0.1
(1,2303)	2:5:B:6MZ:H2	2:6:B:C:H1'	6	0.1
(1,2303)	2:5:B:6MZ:H2	2:6:B:C:H1'	7	0.1
(1,2300)	2:5:B:6MZ:H8	2:4:B:G:H1'	9	0.1
(1,2288)	1:91:A:LEU:H	1:90:A:LYS:HA	4	0.1
(1,2288)	1:91:A:LEU:H	1:90:A:LYS:HA	9	0.1
(1,2288)	1:91:A:LEU:H	1:90:A:LYS:HA	19	0.1
(1,2288)	1:91:A:LEU:H	1:90:A:LYS:HA	20	0.1
(1,2237)	1:25:A:VAL:H	1:73:A:ILE:HA	16	0.1
(1,2224)	1:22:A:GLN:HE21	1:74:A:THR:HG23	15	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2216)	1:153:A:ILE:H	1:152:A:VAL:HG13	1	0.1
(1,2193)	1:152:A:VAL:H	1:113:A:ALA:HB1	5	0.1
(1,2140)	1:149:A:ASN:H	1:150:A:GLU:H	6	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	1	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	2	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	3	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	4	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	6	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	7	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	8	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	10	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	12	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	13	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	14	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	15	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	16	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	17	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	18	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	19	0.1
(1,2137)	1:80:A:GLN:HE21	1:80:A:GLN:HE22	20	0.1
(1,2134)	1:63:A:THR:H	1:63:A:THR:HG23	6	0.1
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	7	0.1
(1,2098)	1:91:A:LEU:H	1:91:A:LEU:HB3	8	0.1
(1,2097)	1:96:A:PHE:H	1:94:A:GLU:HB2	14	0.1
(1,1968)	1:131:A:GLN:HE22	1:131:A:GLN:HG3	4	0.1
(1,1968)	1:131:A:GLN:HE22	1:131:A:GLN:HG3	9	0.1
(1,1968)	1:131:A:GLN:HE22	1:131:A:GLN:HG3	12	0.1
(1,1968)	1:131:A:GLN:HE22	1:131:A:GLN:HG3	14	0.1
(1,1939)	1:89:A:GLY:H	1:86:A:ARG:H	2	0.1
(1,1928)	1:96:A:PHE:H	1:91:A:LEU:HB3	3	0.1
(1,1928)	1:96:A:PHE:H	1:91:A:LEU:HB3	6	0.1
(1,1913)	1:151:A:GLN:H	1:151:A:GLN:HG3	7	0.1
(1,1903)	1:170:A:ILE:H	1:168:A:ARG:HA	7	0.1
(1,1903)	1:170:A:ILE:H	1:168:A:ARG:HA	16	0.1
(1,1902)	1:69:A:ARG:H	1:28:A:PHE:HA	17	0.1
(1,1850)	1:152:A:VAL:H	1:151:A:GLN:HG2	18	0.1
(1,1798)	1:148:A:GLU:H	1:147:A:ASP:HB3	9	0.1
(1,1773)	1:63:A:THR:H	1:62:A:GLU:HG2	12	0.1
(1,1772)	1:51:A:PHE:H	1:50:A:ARG:HA	19	0.1
(1,1763)	1:102:A:GLU:H	1:102:A:GLU:HA	14	0.1
(1,1688)	1:34:A:VAL:H	1:33:A:ALA:HB2	9	0.1
(1,1685)	1:149:A:ASN:H	1:148:A:GLU:HB2	14	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1685)	1:149:A:ASN:H	1:148:A:GLU:HB2	17	0.1
(1,1684)	1:54:A:ALA:H	1:53:A:SER:HA	8	0.1
(1,1645)	1:156:A:ILE:H	1:156:A:ILE:HG12	1	0.1
(1,1599)	1:127:A:VAL:HA	1:138:A:VAL:HB	16	0.1
(1,1575)	1:168:A:ARG:HA	1:171:A:ARG:HG3	9	0.1
(1,1575)	1:168:A:ARG:HA	1:171:A:ARG:HG3	13	0.1
(1,1574)	1:103:A:VAL:HG13	1:92:A:LYS:HA	15	0.1
(1,1573)	1:151:A:GLN:HA	1:113:A:ALA:HA	6	0.1
(1,1566)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	2	0.1
(1,1510)	1:93:A:GLU:HG2	1:94:A:GLU:H	1	0.1
(1,1483)	1:33:A:ALA:HA	1:36:A:ALA:HB2	12	0.1
(1,1470)	1:161:A:TYR:HB3	1:162:A:ALA:H	6	0.1
(1,1469)	1:161:A:TYR:H	1:161:A:TYR:HB3	16	0.1
(1,1437)	1:159:A:HIS:HB2	1:159:A:HIS:HD2	5	0.1
(1,1428)	1:89:A:GLY:H	1:86:A:ARG:HA	16	0.1
(1,1397)	1:91:A:LEU:HA	1:91:A:LEU:HD22	10	0.1
(1,1358)	1:54:A:ALA:HB1	1:75:A:GLY:HA3	6	0.1
(1,1358)	1:54:A:ALA:HB1	1:75:A:GLY:HA3	19	0.1
(1,1344)	1:153:A:ILE:HG22	1:110:A:ARG:HD3	16	0.1
(1,1343)	1:110:A:ARG:HD3	1:110:A:ARG:HB3	18	0.1
(1,1332)	1:156:A:ILE:HG21	1:166:A:ALA:HB2	13	0.1
(1,1293)	1:57:A:LYS:HB3	1:72:A:VAL:HB	11	0.1
(1,1291)	1:113:A:ALA:HA	1:152:A:VAL:HG12	10	0.1
(1,1285)	1:34:A:VAL:H	1:29:A:ILE:HD12	16	0.1
(1,1282)	1:110:A:ARG:HA	1:153:A:ILE:HG21	6	0.1
(1,1273)	1:96:A:PHE:HZ	1:94:A:GLU:HG2	11	0.1
(1,1170)	1:38:A:ILE:HA	1:38:A:ILE:HG12	8	0.1
(1,1134)	1:104:A:LYS:H	1:104:A:LYS:HB3	16	0.1
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD12	6	0.1
(1,1106)	1:174:A:LEU:H	1:174:A:LEU:HD11	7	0.1
(1,1091)	1:110:A:ARG:H	1:110:A:ARG:HG3	15	0.1
(1,1078)	1:156:A:ILE:H	1:156:A:ILE:HD11	9	0.1
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	1	0.1
(1,1074)	1:88:A:TYR:HE1	1:160:A:PHE:HA	9	0.1
(1,1042)	1:96:A:PHE:HD1	1:94:A:GLU:HB3	6	0.1
(1,1035)	1:88:A:TYR:HD1	1:159:A:HIS:HB3	3	0.1
(1,993)	1:18:A:MET:HA	1:19:A:PRO:HD2	4	0.1
(1,993)	1:18:A:MET:HA	1:19:A:PRO:HD2	16	0.1
(1,988)	1:110:A:ARG:HD2	1:153:A:ILE:HB	12	0.1
(1,982)	1:48:A:LEU:HD21	1:48:A:LEU:HB3	6	0.1
(1,981)	1:48:A:LEU:HD22	1:48:A:LEU:HD12	16	0.1
(1,981)	1:48:A:LEU:HD22	1:48:A:LEU:HD12	20	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,952)	1:131:A:GLN:HB2	1:128:A:ASN:HA	13	0.1
(1,947)	1:63:A:THR:HB	1:62:A:GLU:HG3	9	0.1
(1,945)	1:139:A:VAL:HG13	1:141:A:PRO:HD3	13	0.1
(1,906)	1:93:A:GLU:HG3	1:90:A:LYS:HA	15	0.1
(1,891)	1:45:A:ILE:HG21	1:45:A:ILE:HG13	6	0.1
(1,862)	1:90:A:LYS:HD3	1:90:A:LYS:HE2	12	0.1
(1,862)	1:90:A:LYS:HD3	1:90:A:LYS:HE2	13	0.1
(1,862)	1:90:A:LYS:HD3	1:90:A:LYS:HE2	15	0.1
(1,862)	1:90:A:LYS:HD3	1:90:A:LYS:HE2	18	0.1
(1,862)	1:90:A:LYS:HD3	1:90:A:LYS:HE2	20	0.1
(1,847)	1:102:A:GLU:HA	1:102:A:GLU:HG3	2	0.1
(1,816)	1:38:A:ILE:HD13	1:38:A:ILE:HA	5	0.1
(1,808)	1:71:A:VAL:HG21	1:71:A:VAL:HB	2	0.1
(1,808)	1:71:A:VAL:HG23	1:71:A:VAL:HB	9	0.1
(1,808)	1:71:A:VAL:HG22	1:71:A:VAL:HB	20	0.1
(1,804)	1:50:A:ARG:HD2	1:50:A:ARG:HG3	5	0.1
(1,804)	1:50:A:ARG:HD2	1:50:A:ARG:HG3	9	0.1
(1,804)	1:50:A:ARG:HD2	1:50:A:ARG:HG3	16	0.1
(1,800)	1:67:A:LYS:HA	1:67:A:LYS:HG3	15	0.1
(1,798)	1:48:A:LEU:HD13	1:48:A:LEU:HB3	19	0.1
(1,734)	1:153:A:ILE:HD11	1:153:A:ILE:HB	10	0.1
(1,685)	1:116:A:ALA:HB1	1:140:A:VAL:HG11	11	0.1
(1,667)	1:45:A:ILE:HG12	1:45:A:ILE:HD11	16	0.1
(1,622)	1:148:A:GLU:HG3	1:149:A:ASN:HA	3	0.1
(1,622)	1:148:A:GLU:HG3	1:149:A:ASN:HA	16	0.1
(1,586)	1:107:A:THR:HB	1:107:A:THR:HG22	11	0.1
(1,567)	1:131:A:GLN:HA	1:131:A:GLN:HB2	1	0.1
(1,564)	1:71:A:VAL:HA	1:71:A:VAL:HG13	17	0.1
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	1	0.1
(1,521)	1:142:A:ARG:HB2	1:142:A:ARG:HG2	9	0.1
(1,520)	1:127:A:VAL:HG11	1:137:A:GLU:HA	6	0.1
(1,518)	1:142:A:ARG:HA	1:142:A:ARG:HB2	6	0.1
(1,518)	1:142:A:ARG:HA	1:142:A:ARG:HB2	11	0.1
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	4	0.1
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	5	0.1
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	6	0.1
(1,483)	1:88:A:TYR:HD1	1:88:A:TYR:HB2	9	0.1
(1,458)	1:175:A:ALA:H	1:172:A:ASP:HA	3	0.1
(1,456)	1:61:A:PRO:HD2	1:61:A:PRO:HG2	19	0.1
(1,430)	1:93:A:GLU:HG2	1:93:A:GLU:HB2	15	0.1
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	12	0.1
(1,421)	1:48:A:LEU:H	1:47:A:GLN:HB2	15	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,391)	1:22:A:GLN:HE21	1:22:A:GLN:HG2	13	0.1
(1,378)	1:57:A:LYS:H	1:57:A:LYS:HG3	4	0.1
(1,364)	1:58:A:ILE:H	1:58:A:ILE:HG13	15	0.1
(1,364)	1:58:A:ILE:H	1:58:A:ILE:HG13	20	0.1
(1,325)	1:159:A:HIS:HD2	1:159:A:HIS:HA	15	0.1
(1,307)	1:91:A:LEU:HG	1:105:A:LEU:HG	7	0.1
(1,300)	1:74:A:THR:H	1:55:A:SER:HB2	14	0.1
(1,229)	1:119:A:VAL:HG13	1:116:A:ALA:HA	8	0.1
(1,207)	1:178:A:LYS:HG3	1:178:A:LYS:HA	13	0.1
(1,186)	1:170:A:ILE:HA	1:170:A:ILE:HB	3	0.1
(1,186)	1:170:A:ILE:HA	1:170:A:ILE:HB	10	0.1
(1,186)	1:170:A:ILE:HA	1:170:A:ILE:HB	18	0.1
(1,174)	1:164:A:GLN:HG2	1:164:A:GLN:HA	4	0.1
(1,174)	1:164:A:GLN:HG2	1:164:A:GLN:HA	9	0.1
(1,174)	1:164:A:GLN:HG2	1:164:A:GLN:HA	15	0.1
(1,168)	1:173:A:ILE:HB	1:170:A:ILE:HA	2	0.1
(1,164)	1:73:A:ILE:HB	1:84:A:GLN:HG2	10	0.1
(1,157)	1:94:A:GLU:HA	1:94:A:GLU:HG2	6	0.1
(1,156)	1:177:A:VAL:HB	1:177:A:VAL:HG12	14	0.1
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	12	0.1
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	14	0.1
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	18	0.1
(1,130)	1:57:A:LYS:HE2	1:57:A:LYS:HD2	19	0.1
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	3	0.1
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	16	0.1
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	17	0.1
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	18	0.1
(1,107)	1:38:A:ILE:HA	1:38:A:ILE:HG13	19	0.1
(1,104)	1:45:A:ILE:HA	1:48:A:LEU:HB3	19	0.1
(1,48)	1:56:A:ILE:HA	1:56:A:ILE:HG23	5	0.1
(1,23)	1:165:A:MET:H	1:162:A:ALA:HA	7	0.1
(1,23)	1:165:A:MET:H	1:162:A:ALA:HA	19	0.1

10 Dihedral-angle violation analysis (i)

No dihedral-angle restraints found