Full wwPDB NMR Structure Validation Report (i)

Dec 25, 2024 – 02:02 AM EST

PDB ID	:	2NAN
BMRB ID	:	25802
Title	:	NMR structure of human DCL-1 (CD302) extracellular domain
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Deposited on	:	2016-01-06

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/NMRValidationReportHelp
with specific help available everywhere you see the (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:

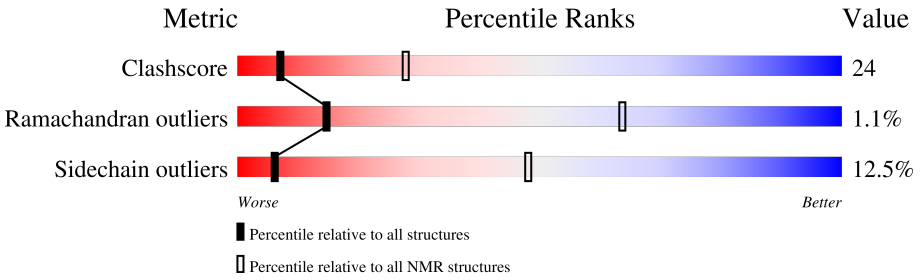
MolProbity	:	4.02b-467
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal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

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
SOLUTION NMR

The overall completeness of chemical shifts assignment is 95%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	140	56% 22% 9% • 13%

2 Ensemble composition and analysis

This entry contains 10 models. Model 9 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	**Residue range (total)**	**Backbone RMSD (Å)**	**Medoid model**
1	A:28-A:116, A:124-A:156 (122)	0.24	9

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

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

The models can be grouped into 2 clusters and 2 single-model clusters were found.

Cluster number	Models
1	1, 2, 6, 7, 10
2	3, 5, 9
Single-model clusters	4; 8

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 2187 atoms, of which 1051 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called CD302 antigen.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	140	2187	713	1051	180	233	10	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	22	MET	-	initiating methionine	UNP Q8IX05

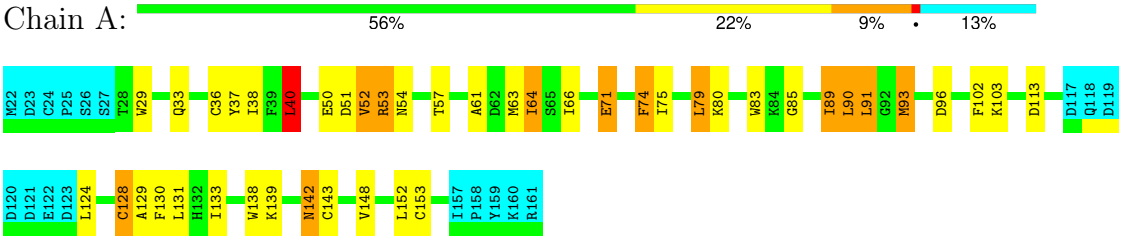
4 Residue-property plots (i)

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: CD302 antigen

Chain A:



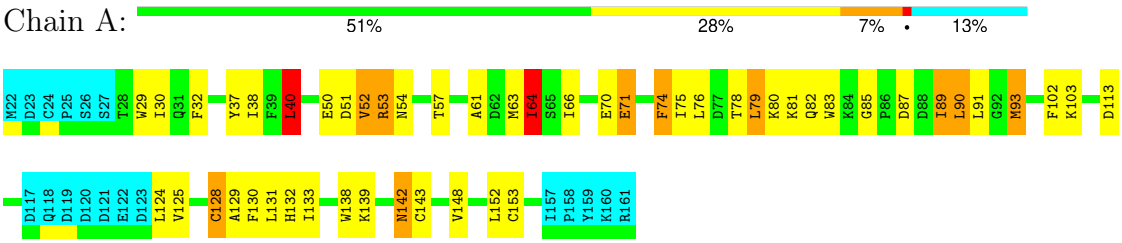
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

• Molecule 1: CD302 antigen

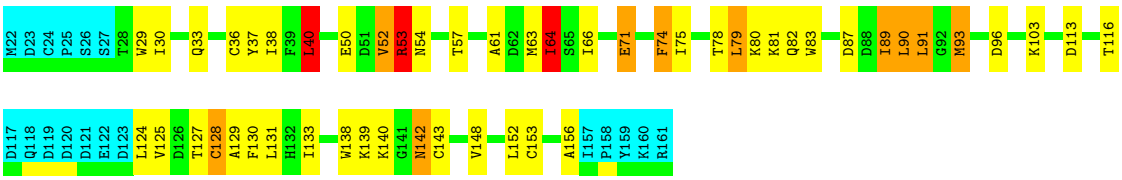
Chain A:



4.2.2 Score per residue for model 2

• Molecule 1: CD302 antigen

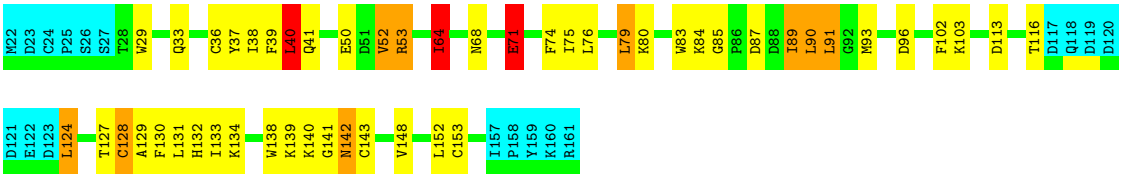
Chain A:



4.2.3 Score per residue for model 3

• Molecule 1: CD302 antigen

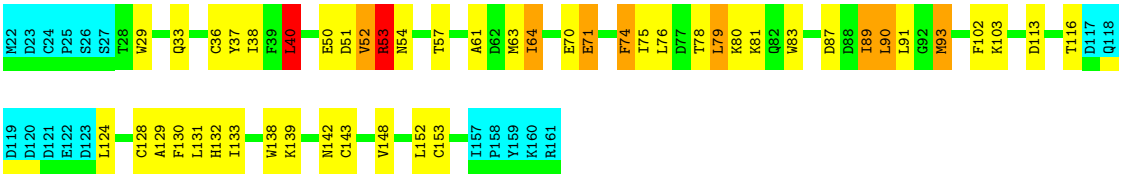
Chain A:



4.2.4 Score per residue for model 4

• Molecule 1: CD302 antigen

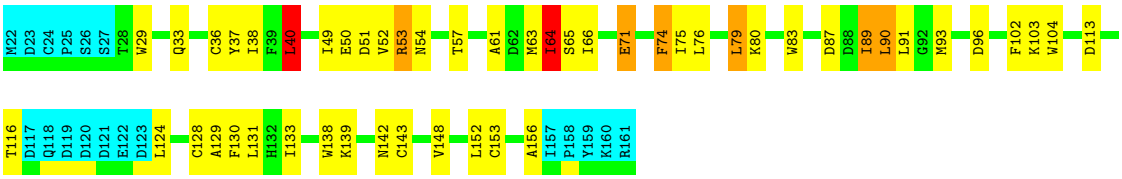
Chain A:



4.2.5 Score per residue for model 5

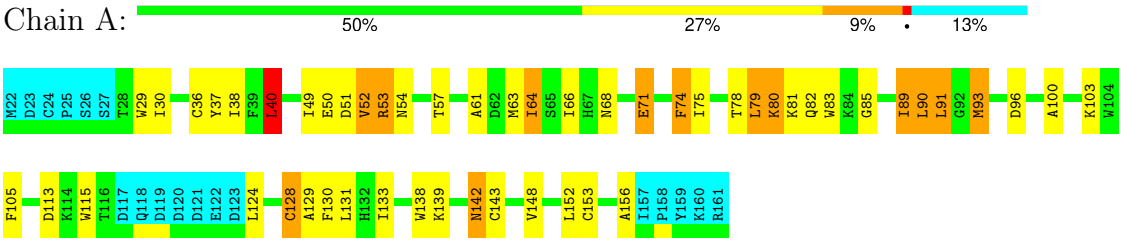
• Molecule 1: CD302 antigen

Chain A:



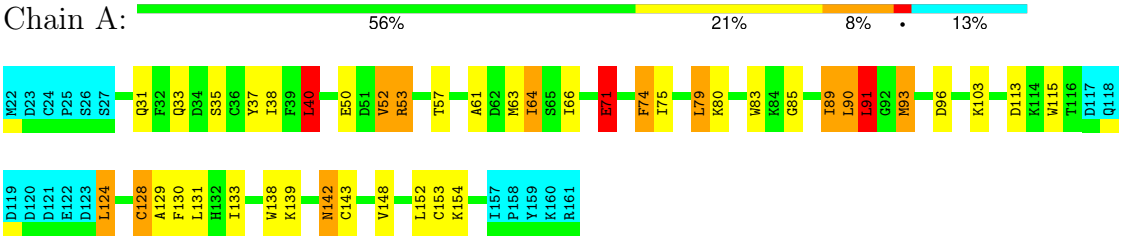
4.2.6 Score per residue for model 6

• Molecule 1: CD302 antigen



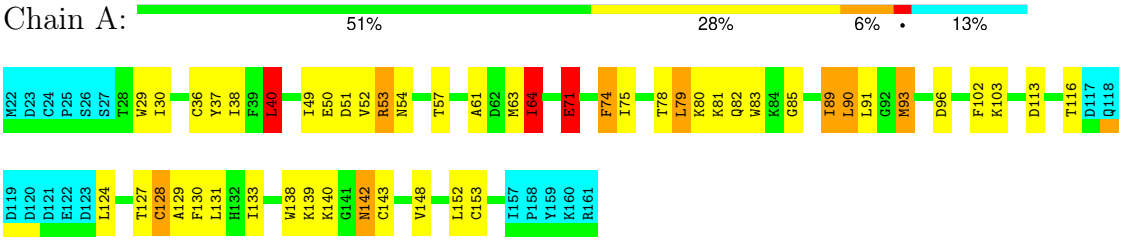
4.2.7 Score per residue for model 7

• Molecule 1: CD302 antigen



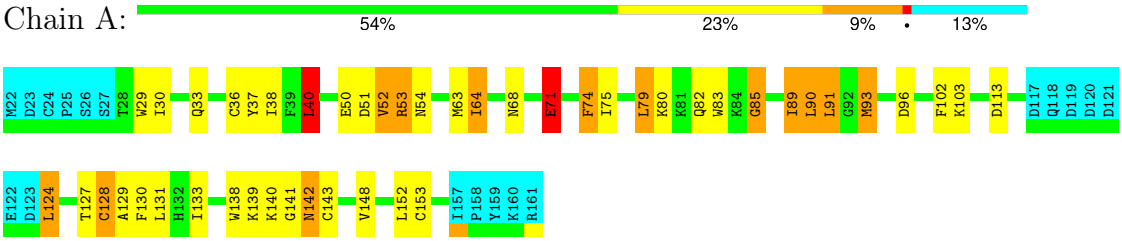
4.2.8 Score per residue for model 8

• Molecule 1: CD302 antigen



4.2.9 Score per residue for model 9 (medoid)

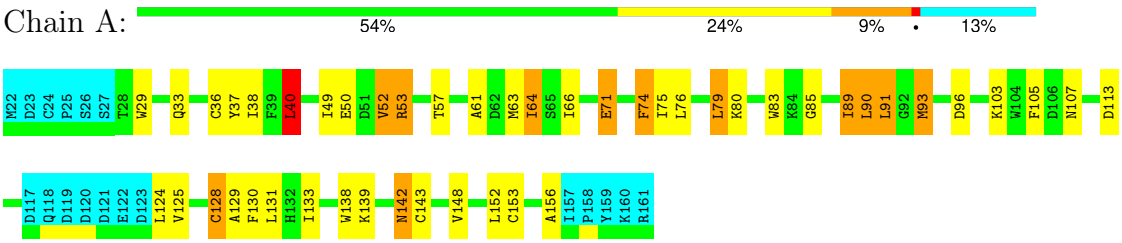
• Molecule 1: CD302 antigen



4.2.10 Score per residue for model 10

• Molecule 1: CD302 antigen

Chain A:



5 Refinement protocol and experimental data overview

The models were refined using the following method: *simulated annealing, molecular dynamics, torsion angle dynamics.*

Of the 500 calculated structures, 10 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
Sparky	structure solution	
Sparky	refinement	
Sparky	structure solution	
Sparky	refinement	
Sparky	structure solution	
Sparky	refinement	
Sparky	structure solution	
Sparky	refinement	
ARIA	structure solution	
CNS	refinement	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1740
Number of shifts mapped to atoms	1740
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	95%

6 Model quality

6.1 Standard geometry

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	1.32±0.01	3±1/1013 (0.3± 0.1%)	0.87±0.01	1±0/1372 (0.1± 0.0%)
All	All	1.32	28/10130 (0.3%)	0.87	10/13720 (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	0.2±0.4
All	All	0	2

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	71	GLU	CG-CD	-6.71	1.41	1.51	7	5
1	A	40	LEU	N-CA	-5.84	1.34	1.46	5	10
1	A	71	GLU	CD-OE1	-5.73	1.19	1.25	2	5
1	A	71	GLU	CD-OE2	-5.30	1.19	1.25	4	1
1	A	93	MET	N-CA	-5.28	1.35	1.46	2	4
1	A	85	GLY	N-CA	-5.08	1.38	1.46	9	2
1	A	91	LEU	C-N	-5.00	1.24	1.33	7	1

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	A	74	PHE	CB-CG-CD2	-5.61	116.88	120.80	10	10

There are no chirality outliers.

All unique planar outliers are listed below.

Mol	Chain	Res	Type	Group	Models (Total)
1	A	53	ARG	Sidechain	2

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	989	928	925	45±4
All	All	9890	9280	9250	450

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 24.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:29:TRP:HB3	1:A:36:CYS:SG	0.78	2.18	8	8
1:A:91:LEU:HD23	1:A:93:MET:HE3	0.72	1.62	7	4
1:A:71:GLU:O	1:A:75:ILE:HG12	0.68	1.88	6	10
1:A:66:ILE:HG12	1:A:71:GLU:OE1	0.68	1.88	5	5
1:A:113:ASP:HA	1:A:138:TRP:CH2	0.68	2.23	5	10
1:A:113:ASP:HA	1:A:138:TRP:CZ3	0.66	2.26	4	10
1:A:93:MET:SD	1:A:102:PHE:HB3	0.61	2.35	9	6
1:A:90:LEU:HD23	1:A:129:ALA:O	0.60	1.97	4	10
1:A:38:ILE:HA	1:A:83:TRP:CZ2	0.59	2.32	4	10
1:A:50:GLU:HA	1:A:53:ARG:CG	0.59	2.28	2	10
1:A:57:THR:HA	1:A:61:ALA:O	0.58	1.98	10	8
1:A:80:LYS:HD2	1:A:133:ILE:HG23	0.58	1.74	2	10
1:A:93:MET:HA	1:A:103:LYS:O	0.58	1.98	2	9
1:A:50:GLU:O	1:A:53:ARG:HG3	0.58	1.99	7	9
1:A:129:ALA:HA	1:A:139:LYS:O	0.57	1.99	5	10
1:A:78:THR:HA	1:A:81:LYS:HG2	0.57	1.77	4	5
1:A:79:LEU:CD2	1:A:89:ILE:HG21	0.56	2.30	7	10
1:A:64:ILE:HB	1:A:152:LEU:HD23	0.55	1.77	1	9
1:A:53:ARG:HD3	1:A:53:ARG:C	0.55	2.23	2	4
1:A:71:GLU:O	1:A:74:PHE:HB3	0.54	2.02	4	9
1:A:128:CYS:HA	1:A:142:ASN:N	0.54	2.18	6	8
1:A:50:GLU:HA	1:A:53:ARG:HG3	0.54	1.78	2	6
1:A:78:THR:HA	1:A:81:LYS:CD	0.54	2.33	4	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:91:LEU:HD23	1:A:93:MET:CE	0.53	2.33	9	2
1:A:80:LYS:HD2	1:A:133:ILE:CG2	0.53	2.33	10	9
1:A:75:ILE:HG23	1:A:152:LEU:HD22	0.52	1.80	5	9
1:A:75:ILE:O	1:A:79:LEU:HB2	0.52	2.04	3	10
1:A:91:LEU:HD13	1:A:131:LEU:HB2	0.51	1.82	6	4
1:A:49:ILE:HG23	1:A:105:PHE:HZ	0.51	1.65	10	2
1:A:66:ILE:HD12	1:A:138:TRP:CZ2	0.50	2.41	1	5
1:A:90:LEU:HG	1:A:130:PHE:CE1	0.50	2.41	8	9
1:A:53:ARG:HA	1:A:63:MET:HG3	0.50	1.82	7	9
1:A:78:THR:HA	1:A:81:LYS:CG	0.50	2.37	4	5
1:A:80:LYS:HG3	1:A:85:GLY:HA3	0.50	1.81	10	6
1:A:52:VAL:HG21	1:A:148:VAL:HG11	0.50	1.83	9	9
1:A:90:LEU:HD12	1:A:148:VAL:HG11	0.49	1.82	8	10
1:A:37:TYR:HA	1:A:153:CYS:O	0.49	2.07	8	10
1:A:116:THR:HG22	1:A:138:TRP:O	0.48	2.08	3	5
1:A:89:ILE:HD11	1:A:131:LEU:HD23	0.48	1.84	2	9
1:A:75:ILE:HD12	1:A:152:LEU:CD2	0.48	2.38	9	7
1:A:131:LEU:HD13	1:A:138:TRP:NE1	0.48	2.23	3	10
1:A:131:LEU:HD13	1:A:138:TRP:CD1	0.47	2.44	7	4
1:A:128:CYS:HB2	1:A:130:PHE:CE1	0.47	2.44	6	1
1:A:51:ASP:O	1:A:54:ASN:HB2	0.47	2.09	1	6
1:A:96:ASP:O	1:A:100:ALA:HA	0.47	2.10	6	1
1:A:37:TYR:HD2	1:A:152:LEU:HD21	0.47	1.69	6	5
1:A:50:GLU:CA	1:A:53:ARG:HG3	0.47	2.38	2	4
1:A:87:ASP:O	1:A:133:ILE:HB	0.47	2.09	4	5
1:A:131:LEU:HD13	1:A:138:TRP:HE1	0.47	1.69	8	9
1:A:96:ASP:HB2	1:A:103:LYS:HD2	0.46	1.87	7	5
1:A:30:ILE:HD11	1:A:82:GLN:CB	0.46	2.40	2	5
1:A:96:ASP:CB	1:A:103:LYS:HD2	0.46	2.41	5	1
1:A:80:LYS:HB2	1:A:80:LYS:NZ	0.46	2.25	6	1
1:A:79:LEU:HD21	1:A:89:ILE:HG21	0.46	1.87	5	9
1:A:66:ILE:HG23	1:A:71:GLU:HB3	0.45	1.89	7	2
1:A:54:ASN:HA	1:A:57:THR:OG1	0.45	2.11	5	3
1:A:125:VAL:HG13	1:A:142:ASN:HD21	0.45	1.71	2	3
1:A:50:GLU:HA	1:A:53:ARG:HG2	0.45	1.88	3	1
1:A:40:LEU:HD11	1:A:153:CYS:SG	0.44	2.52	1	5
1:A:90:LEU:HD12	1:A:148:VAL:CG1	0.44	2.43	2	5
1:A:64:ILE:HD12	1:A:75:ILE:HG21	0.44	1.89	7	4
1:A:91:LEU:CD1	1:A:131:LEU:HB2	0.44	2.43	6	2
1:A:40:LEU:HD13	1:A:40:LEU:N	0.43	2.28	2	10
1:A:31:GLN:HA	1:A:35:SER:O	0.43	2.14	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:132:HIS:CE1	1:A:134:LYS:HB2	0.43	2.49	3	1
1:A:124:LEU:HD23	1:A:141:GLY:HA2	0.43	1.90	3	2
1:A:64:ILE:CD1	1:A:75:ILE:HG21	0.43	2.44	7	3
1:A:96:ASP:CB	1:A:103:LYS:HE3	0.43	2.43	6	2
1:A:89:ILE:O	1:A:89:ILE:HG12	0.42	2.14	4	5
1:A:79:LEU:HG	1:A:89:ILE:HG21	0.42	1.90	7	3
1:A:113:ASP:HB2	1:A:115:TRP:CD1	0.42	2.49	7	2
1:A:53:ARG:HA	1:A:63:MET:CG	0.42	2.44	8	1
1:A:76:LEU:HD11	1:A:132:HIS:O	0.42	2.14	1	2
1:A:127:THR:HG23	1:A:140:LYS:O	0.42	2.14	3	4
1:A:51:ASP:HA	1:A:54:ASN:ND2	0.42	2.29	5	1
1:A:32:PHE:HB3	1:A:37:TYR:CE1	0.42	2.49	1	1
1:A:39:PHE:CE2	1:A:41:GLN:HG2	0.42	2.49	3	1
1:A:65:SER:HA	1:A:104:TRP:CE3	0.42	2.50	5	1
1:A:91:LEU:HD13	1:A:131:LEU:CB	0.41	2.45	6	3
1:A:124:LEU:HD13	1:A:124:LEU:N	0.41	2.30	7	2
1:A:35:SER:OG	1:A:154:LYS:HG3	0.41	2.14	7	1
1:A:79:LEU:CG	1:A:89:ILE:HG21	0.41	2.45	7	1
1:A:49:ILE:O	1:A:53:ARG:HB3	0.41	2.16	8	1
1:A:74:PHE:CD2	1:A:75:ILE:HD13	0.41	2.50	1	2
1:A:41:GLN:OE1	1:A:84:LYS:HD3	0.41	2.16	3	1
1:A:79:LEU:HA	1:A:83:TRP:CE3	0.41	2.51	1	1
1:A:79:LEU:HA	1:A:83:TRP:HE3	0.41	1.76	1	1
1:A:49:ILE:HA	1:A:52:VAL:HG12	0.41	1.93	5	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	122/140 (87%)	112±1 (91±1%)	9±1 (8±1%)	1±1 (1±1%)	15	64
All	All	1220/1400 (87%)	1115 (91%)	92 (8%)	13 (1%)	15	64

All 2 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	33	GLN	7
1	A	64	ILE	6

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	110/128 (86%)	96±1 (88±1%)	14±1 (12±1%)	6 48
All	All	1100/1280 (86%)	963 (88%)	137 (12%)	6 48

All 19 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	40	LEU	10
1	A	53	ARG	10
1	A	64	ILE	10
1	A	79	LEU	10
1	A	89	ILE	10
1	A	90	LEU	10
1	A	91	LEU	10
1	A	124	LEU	10
1	A	128	CYS	10
1	A	142	ASN	10
1	A	143	CYS	10
1	A	52	VAL	9
1	A	93	MET	4
1	A	71	GLU	4
1	A	68	ASN	3
1	A	76	LEU	3
1	A	70	GLU	2
1	A	80	LYS	1
1	A	107	ASN	1

6.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates

There are no oligosaccharides in this entry.

6.6 Ligand geometry

There are no ligands in this entry.

6.7 Other polymers

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 95% for the well-defined parts and 94% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

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

Total number of shifts	1740
Number of shifts mapped to atoms	1740
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	12

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	139	-0.16 ± 0.27	None needed (< 0.5 ppm)
$^{13}C_{\beta}$	133	-0.21 ± 0.11	None needed (< 0.5 ppm)
$^{13}C'$	136	0.33 ± 0.13	None needed (< 0.5 ppm)
^{15}N	132	0.20 ± 0.29	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 95%, i.e. 1557 atoms were assigned a chemical shift out of a possible 1635. 0 out of 13 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	608/614 (99%)	247/249 (99%)	242/244 (99%)	119/121 (98%)
Sidechain	787/839 (94%)	534/540 (99%)	241/275 (88%)	12/24 (50%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	162/182 (89%)	81/90 (90%)	76/81 (94%)	5/11 (45%)
Overall	1557/1635 (95%)	862/879 (98%)	559/600 (93%)	136/156 (87%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 94%, i.e. 1740 atoms were assigned a chemical shift out of a possible 1855. 0 out of 13 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	684/700 (98%)	277/283 (98%)	275/280 (98%)	132/137 (96%)
Sidechain	886/964 (92%)	600/617 (97%)	272/318 (86%)	14/29 (48%)
Aromatic	170/191 (89%)	85/94 (90%)	80/86 (93%)	5/11 (45%)
Overall	1740/1855 (94%)	962/994 (97%)	627/684 (92%)	151/177 (85%)

7.1.4 Statistically unusual chemical shifts (i)

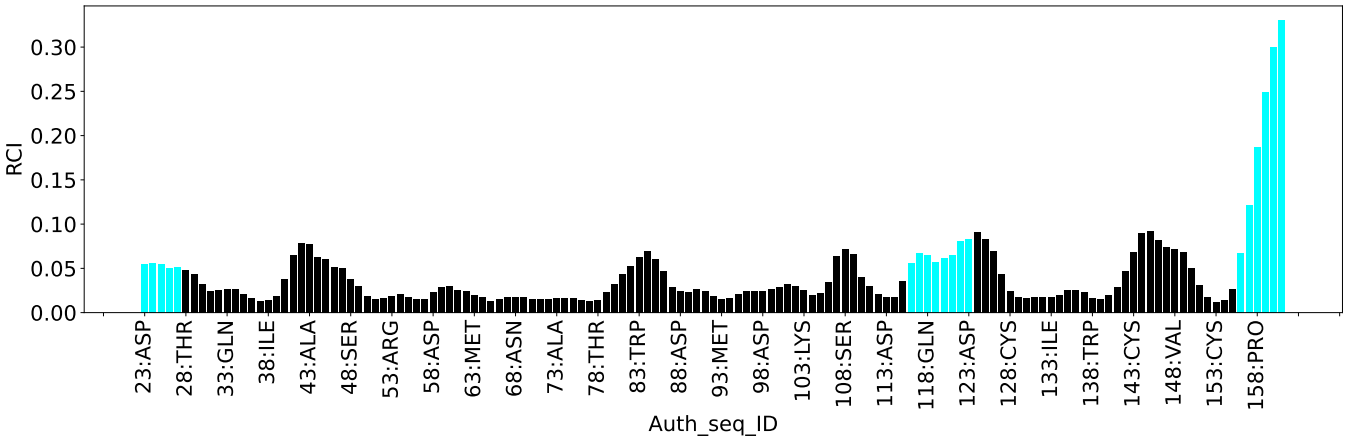
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, *ppm*	Expected range, *ppm*	Z-score
1	A	65	SER	HB3	1.15	2.49 – 5.20	-10.0
1	A	114	LYS	H	2.74	5.24 – 11.12	-9.2
1	A	114	LYS	HB2	-0.34	0.58 – 2.97	-8.8
1	A	140	LYS	HE3	1.52	1.92 – 3.89	-7.0
1	A	38	ILE	HB	0.05	0.35 – 3.22	-6.0
1	A	25	PRO	HD2	1.68	1.93 – 5.38	-5.7
1	A	113	ASP	HB2	1.26	1.41 – 4.01	-5.6
1	A	78	THR	HG21	-0.03	0.08 – 2.19	-5.5
1	A	78	THR	HG22	-0.03	0.08 – 2.19	-5.5
1	A	78	THR	HG23	-0.03	0.08 – 2.19	-5.5
1	A	103	LYS	HB2	0.51	0.58 – 2.97	-5.3
1	A	138	TRP	HE3	5.26	5.27 – 9.37	-5.0

7.1.5 Random Coil Index (RCI) plots (i)

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	9176
Intra-residue (|i-j|=0)	3008
Sequential (|i-j|=1)	1810
Medium range (|i-j|>1 and |i-j|<5)	1248
Long range (|i-j|≥5)	3110
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	228
Number of unmapped restraints	0
Number of restraints per residue	67.2
Number of long range restraints per residue[1]	22.2

[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)	257.8	0.2
0.2-0.5 (Medium)	535.4	0.5
>0.5 (Large)	410.0	9.29

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	19.9	4.78
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis (i)

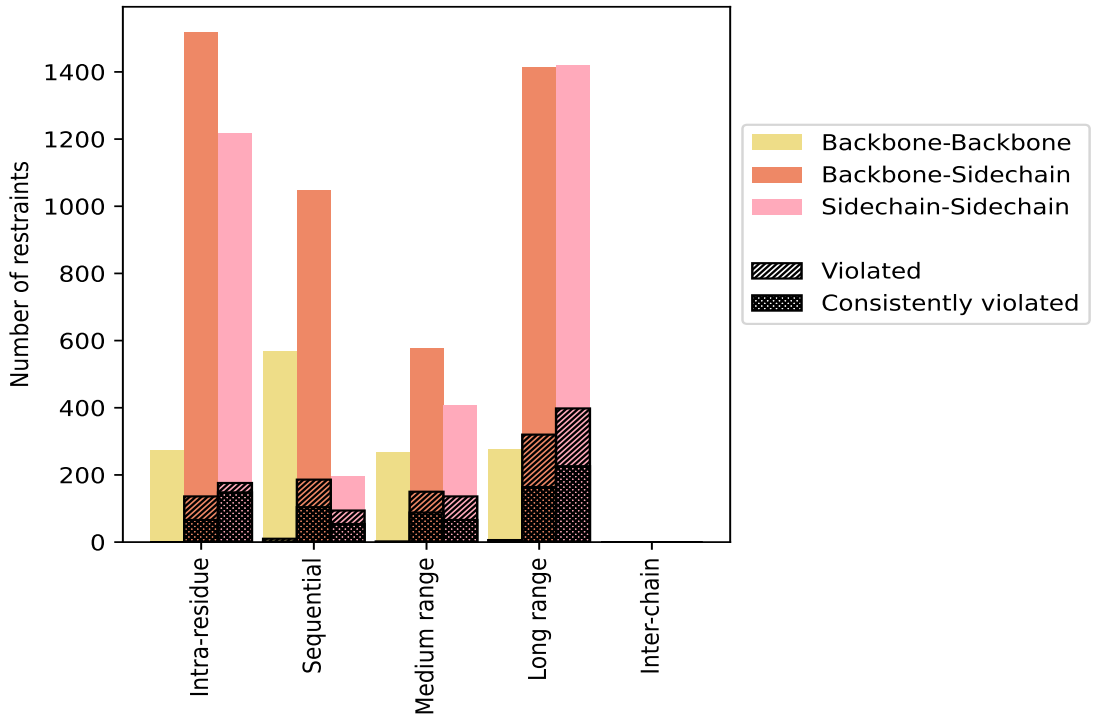
9.1 Summary of distance violations (i)

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

Restraints type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
Intra-residue (|i-j|=0)	3008	32.8	312	10.4	3.4	214	7.1	2.3
Backbone-Backbone	272	3.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	1518	16.5	136	9.0	1.5	66	4.3	0.7
Sidechain-Sidechain	1218	13.3	176	14.4	1.9	148	12.2	1.6
Sequential (|i-j|=1)	1810	19.7	290	16.0	3.2	160	8.8	1.7
Backbone-Backbone	568	6.2	10	1.8	0.1	2	0.4	0.0
Backbone-Sidechain	1046	11.4	186	17.8	2.0	104	9.9	1.1
Sidechain-Sidechain	196	2.1	94	48.0	1.0	54	27.6	0.6
Medium range (|i-j|>1 & |i-j|<5)	1248	13.6	288	23.1	3.1	154	12.3	1.7
Backbone-Backbone	266	2.9	2	0.8	0.0	0	0.0	0.0
Backbone-Sidechain	576	6.3	150	26.0	1.6	88	15.3	1.0
Sidechain-Sidechain	406	4.4	136	33.5	1.5	66	16.3	0.7
Long range (|i-j|≥5)	3110	33.9	724	23.3	7.9	396	12.7	4.3
Backbone-Backbone	276	3.0	6	2.2	0.1	6	2.2	0.1
Backbone-Sidechain	1414	15.4	320	22.6	3.5	164	11.6	1.8
Sidechain-Sidechain	1420	15.5	398	28.0	4.3	226	15.9	2.5
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	9176	100.0	1614	17.6	17.6	924	10.1	10.1
Backbone-Backbone	1382	15.1	18	1.3	0.2	8	0.6	0.1
Backbone-Sidechain	4554	49.6	792	17.4	8.6	422	9.3	4.6
Sidechain-Sidechain	3240	35.3	804	24.8	8.8	494	15.2	5.4

[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

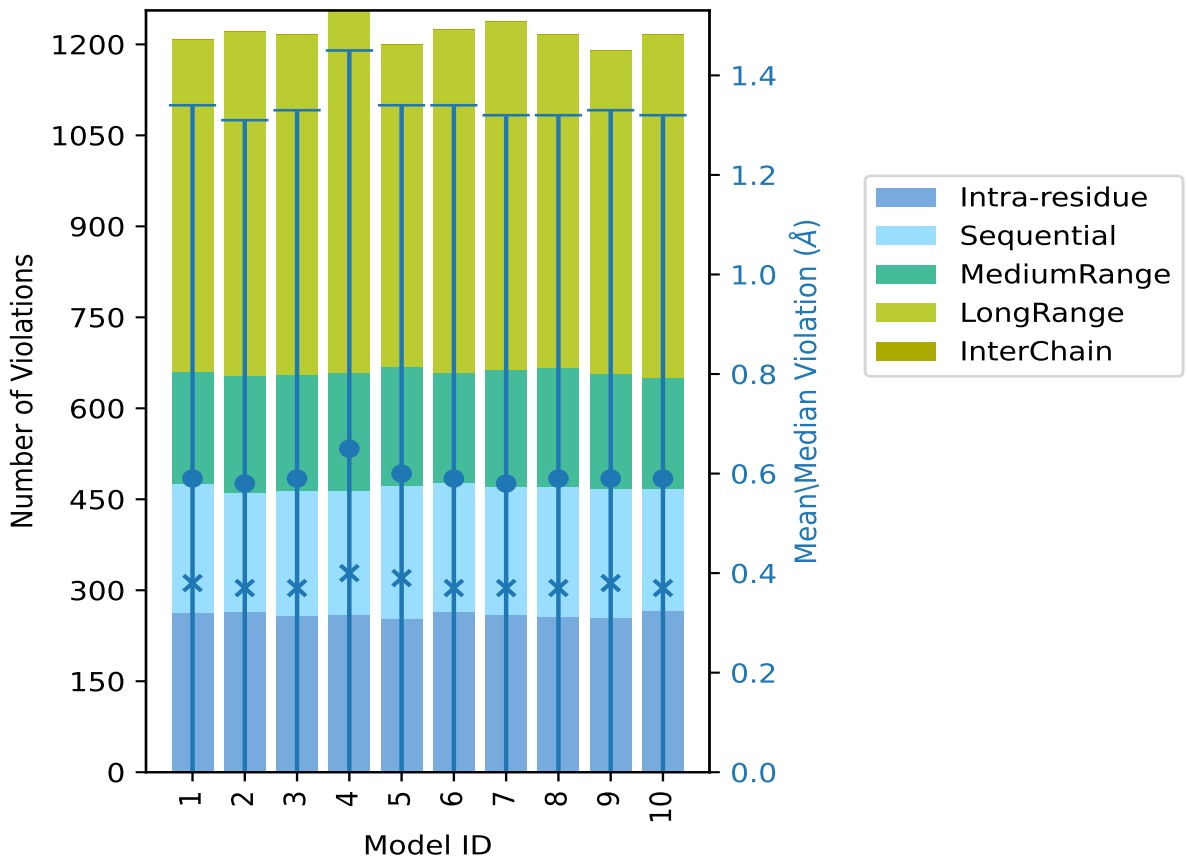
9.2 Distance violation statistics for each model

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	262	214	184	548	0	1208	0.59	9.29	0.75	0.38
2	264	196	194	568	0	1222	0.58	9.26	0.73	0.37
3	258	206	192	560	0	1216	0.59	8.64	0.74	0.37
4	260	204	194	598	0	1256	0.65	8.44	0.8	0.4
5	254	218	196	532	0	1200	0.6	8.61	0.74	0.39
6	264	214	180	566	0	1224	0.59	9.24	0.75	0.37
7	260	210	194	574	0	1238	0.58	8.83	0.74	0.37
8	256	214	196	550	0	1216	0.59	8.73	0.73	0.37
9	254	214	188	534	0	1190	0.59	8.61	0.74	0.38
10	266	202	182	566	0	1216	0.59	8.24	0.73	0.37

[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 (i)



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

9.3 Distance violation statistics for the ensemble (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, 7562(IR:2696, SQ:1520, MR:960, LR:2386, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total	Count[6]	%
20	28	26	86	0	160	1	10.0
16	26	30	34	0	106	2	20.0
10	14	12	24	0	60	3	30.0

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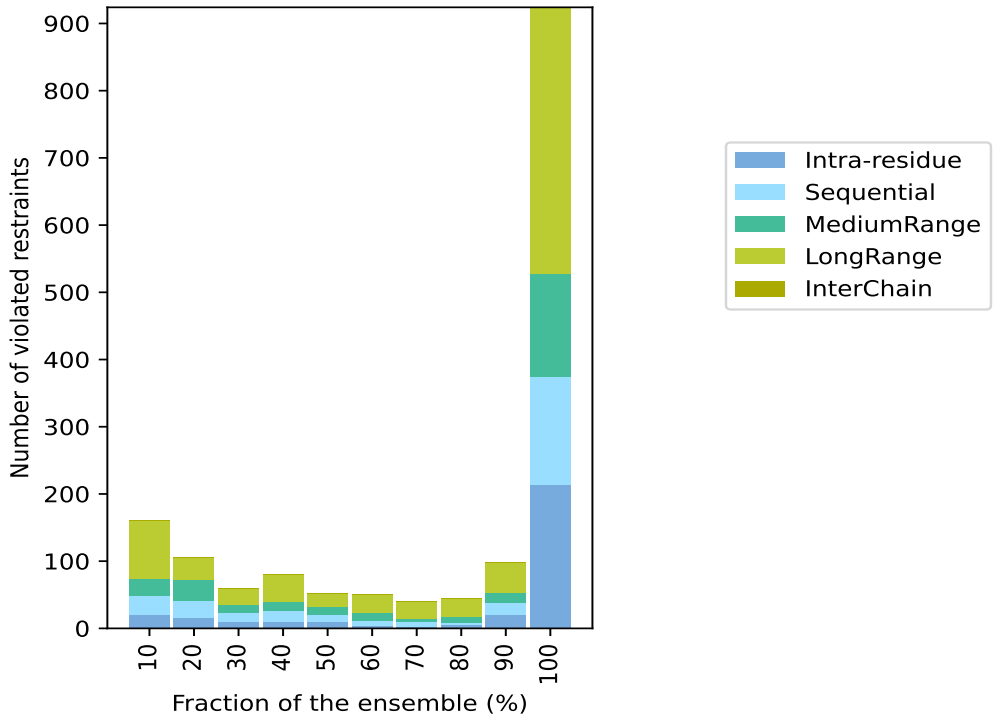
Number of violated restraints						Fraction of the ensemble	
IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total	Count[6]	%
10	16	14	40	0	80	4	40.0
10	10	12	20	0	52	5	50.0
4	8	12	26	0	50	6	60.0
2	8	4	26	0	40	7	70.0
6	2	10	26	0	44	8	80.0
20	18	14	46	0	98	9	90.0
214	160	154	396	0	924	10	100.0

[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

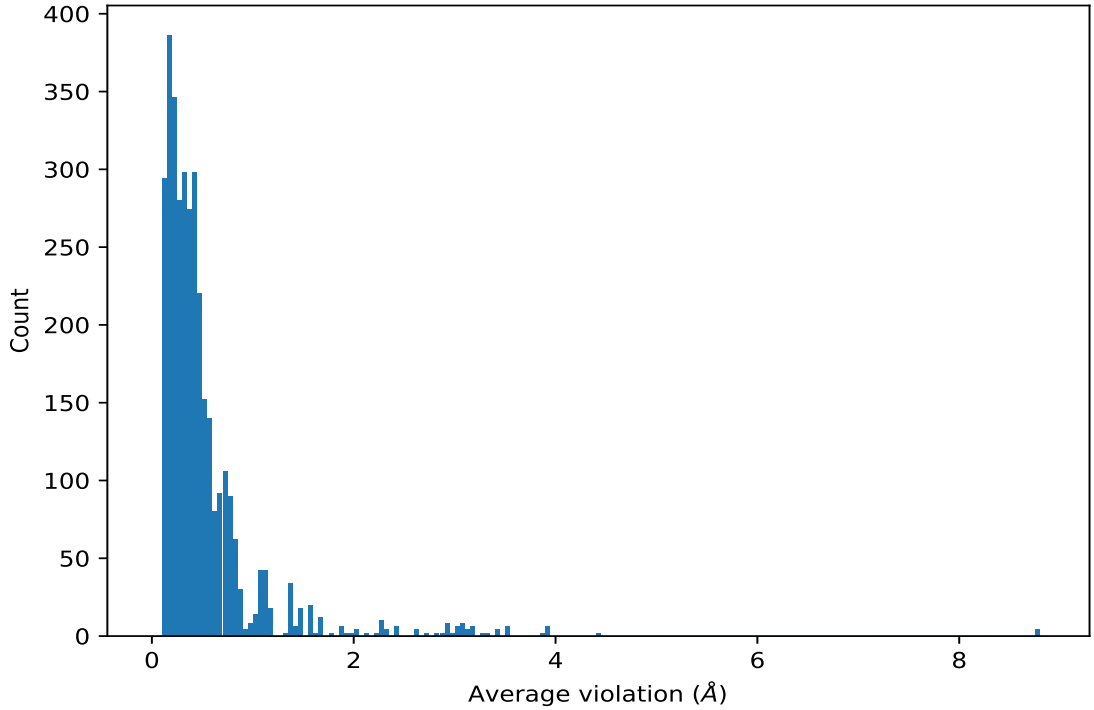


9.4 Most violated distance restraints in the ensemble

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)
(1,4511)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	10	8.79	0.35	8.68
(1,4511)	1:29:A:TRP:HZ2	1:31:A:GLN:HE21	10	8.79	0.35	8.68
(1,4690)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	10	8.79	0.35	8.68
(1,4690)	1:29:A:TRP:HZ2	1:31:A:GLN:HE21	10	8.79	0.35	8.68
(1,2618)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	10	4.42	0.02	4.42
(1,7385)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	10	4.42	0.02	4.42
(1,680)	1:63:A:MET:HE2	1:105:A:PHE:HD1	10	3.93	0.13	3.92
(1,680)	1:63:A:MET:HE3	1:105:A:PHE:HD1	10	3.93	0.13	3.92
(1,680)	1:63:A:MET:HE1	1:105:A:PHE:HD1	10	3.93	0.13	3.92
(1,5447)	1:63:A:MET:HE2	1:105:A:PHE:HD1	10	3.93	0.13	3.92
(1,5447)	1:63:A:MET:HE3	1:105:A:PHE:HD1	10	3.93	0.13	3.92
(1,5447)	1:63:A:MET:HE1	1:105:A:PHE:HD1	10	3.93	0.13	3.92
(1,2535)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	10	3.85	0.26	3.84
(1,7302)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	10	3.85	0.26	3.84
(1,2749)	1:105:A:PHE:HE1	1:63:A:MET:HE3	10	3.53	0.13	3.5

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2749)	1:105:A:PHE:HE1	1:63:A:MET:HE1	10	3.53	0.13	3.5
(1,2749)	1:105:A:PHE:HE1	1:63:A:MET:HE2	10	3.53	0.13	3.5
(1,7516)	1:105:A:PHE:HE1	1:63:A:MET:HE3	10	3.53	0.13	3.5
(1,7516)	1:105:A:PHE:HE1	1:63:A:MET:HE1	10	3.53	0.13	3.5
(1,7516)	1:105:A:PHE:HE1	1:63:A:MET:HE2	10	3.53	0.13	3.5
(1,2613)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	10	3.43	0.1	3.44
(1,7380)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	10	3.43	0.1	3.44
(1,2546)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	10	3.42	0.23	3.46
(1,7313)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	10	3.42	0.23	3.46
(1,2379)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	10	3.31	0.1	3.3
(1,7146)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	10	3.31	0.1	3.3
(1,3513)	1:73:A:ALA:H	1:112:A:PHE:HE1	10	3.27	0.08	3.28
(1,8280)	1:73:A:ALA:H	1:112:A:PHE:HE1	10	3.27	0.08	3.28
(1,811)	1:66:A:ILE:HG22	1:112:A:PHE:HE1	10	3.19	0.06	3.18
(1,811)	1:66:A:ILE:HG23	1:112:A:PHE:HE1	10	3.19	0.06	3.18
(1,811)	1:66:A:ILE:HG21	1:112:A:PHE:HE1	10	3.19	0.06	3.18
(1,5578)	1:66:A:ILE:HG22	1:112:A:PHE:HE1	10	3.19	0.06	3.18
(1,5578)	1:66:A:ILE:HG23	1:112:A:PHE:HE1	10	3.19	0.06	3.18
(1,5578)	1:66:A:ILE:HG21	1:112:A:PHE:HE1	10	3.19	0.06	3.18
(1,4535)	1:32:A:PHE:H	1:75:A:ILE:HA	10	3.11	0.2	3.2
(1,4714)	1:32:A:PHE:H	1:75:A:ILE:HA	10	3.11	0.2	3.2
(1,2743)	1:93:A:MET:H	1:105:A:PHE:HD1	10	3.1	0.05	3.08
(1,7510)	1:93:A:MET:H	1:105:A:PHE:HD1	10	3.1	0.05	3.08
(1,2757)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	10	3.08	0.07	3.08
(1,7524)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	10	3.08	0.07	3.08
(1,810)	1:66:A:ILE:HG22	1:112:A:PHE:HD1	10	3.06	0.07	3.06
(1,810)	1:66:A:ILE:HG23	1:112:A:PHE:HD1	10	3.06	0.07	3.06
(1,810)	1:66:A:ILE:HG21	1:112:A:PHE:HD1	10	3.06	0.07	3.06
(1,5577)	1:66:A:ILE:HG22	1:112:A:PHE:HD1	10	3.06	0.07	3.06
(1,5577)	1:66:A:ILE:HG23	1:112:A:PHE:HD1	10	3.06	0.07	3.06
(1,5577)	1:66:A:ILE:HG21	1:112:A:PHE:HD1	10	3.06	0.07	3.06
(1,3702)	1:92:A:GLY:H	1:105:A:PHE:HD1	10	3.03	0.07	3.04
(1,8469)	1:92:A:GLY:H	1:105:A:PHE:HD1	10	3.03	0.07	3.04
(1,2760)	1:72:A:ASN:H	1:112:A:PHE:HE1	10	3.01	0.11	3.0
(1,7527)	1:72:A:ASN:H	1:112:A:PHE:HE1	10	3.01	0.11	3.0
(1,2737)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	10	3.0	0.02	3.0
(1,7504)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	10	3.0	0.02	3.0
(1,917)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	10	2.96	0.07	2.95
(1,5684)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	10	2.96	0.07	2.95
(1,1432)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	10	2.94	0.05	2.94
(1,6199)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	10	2.94	0.05	2.94
(1,978)	1:75:A:ILE:HG22	1:74:A:PHE:HD1	10	2.9	0.05	2.92

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,978)	1:75:A:ILE:HG21	1:74:A:PHE:HD1	10	2.9	0.05	2.92
(1,978)	1:75:A:ILE:HG23	1:74:A:PHE:HD1	10	2.9	0.05	2.92
(1,5745)	1:75:A:ILE:HG22	1:74:A:PHE:HD1	10	2.9	0.05	2.92
(1,5745)	1:75:A:ILE:HG21	1:74:A:PHE:HD1	10	2.9	0.05	2.92
(1,5745)	1:75:A:ILE:HG23	1:74:A:PHE:HD1	10	2.9	0.05	2.92
(1,2853)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	10	2.87	0.04	2.89
(1,7620)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	10	2.87	0.04	2.89
(1,2877)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	10	2.83	0.05	2.82
(1,7644)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	10	2.83	0.05	2.82
(1,4524)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	10	2.73	0.09	2.73
(1,4703)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	10	2.73	0.09	2.73
(1,2742)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	10	2.64	0.08	2.66
(1,7509)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	10	2.64	0.08	2.66
(1,2739)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	10	2.61	0.06	2.6
(1,7506)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	10	2.61	0.06	2.6
(1,2741)	1:105:A:PHE:HD1	1:49:A:ILE:HD11	10	2.4	0.06	2.41
(1,2741)	1:105:A:PHE:HD1	1:49:A:ILE:HD12	10	2.4	0.06	2.41
(1,2741)	1:105:A:PHE:HD1	1:49:A:ILE:HD13	10	2.4	0.06	2.41
(1,7508)	1:105:A:PHE:HD1	1:49:A:ILE:HD11	10	2.4	0.06	2.41
(1,7508)	1:105:A:PHE:HD1	1:49:A:ILE:HD12	10	2.4	0.06	2.41
(1,7508)	1:105:A:PHE:HD1	1:49:A:ILE:HD13	10	2.4	0.06	2.41
(1,918)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	10	2.33	0.08	2.33
(1,5685)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	10	2.33	0.08	2.33
(1,3929)	1:114:A:LYS:H	1:112:A:PHE:HD1	10	2.3	0.05	2.28
(1,8696)	1:114:A:LYS:H	1:112:A:PHE:HD1	10	2.3	0.05	2.28
(1,919)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	10	2.28	0.07	2.28
(1,5686)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	10	2.28	0.07	2.28
(1,1431)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	10	2.26	0.04	2.26
(1,6198)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	10	2.26	0.04	2.26
(1,2537)	1:32:A:PHE:HD1	1:75:A:ILE:HD12	10	2.25	0.14	2.27
(1,2537)	1:32:A:PHE:HD1	1:75:A:ILE:HD11	10	2.25	0.14	2.27
(1,2537)	1:32:A:PHE:HD1	1:75:A:ILE:HD13	10	2.25	0.14	2.27
(1,7304)	1:32:A:PHE:HD1	1:75:A:ILE:HD12	10	2.25	0.14	2.27
(1,7304)	1:32:A:PHE:HD1	1:75:A:ILE:HD11	10	2.25	0.14	2.27
(1,7304)	1:32:A:PHE:HD1	1:75:A:ILE:HD13	10	2.25	0.14	2.27
(1,843)	1:69:A:GLU:HA	1:112:A:PHE:HD1	10	2.22	0.09	2.21
(1,5610)	1:69:A:GLU:HA	1:112:A:PHE:HD1	10	2.22	0.09	2.21
(1,2533)	1:32:A:PHE:HD1	1:71:A:GLU:HA	10	2.12	0.19	2.14
(1,7300)	1:32:A:PHE:HD1	1:71:A:GLU:HA	10	2.12	0.19	2.14
(1,2534)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	10	2.04	0.13	2.05
(1,7301)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	10	2.04	0.13	2.05
(1,2573)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	10	2.04	0.65	1.82

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,7340)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	10	2.04	0.65	1.82
(1,844)	1:69:A:GLU:HA	1:112:A:PHE:HE1	10	1.98	0.13	1.92
(1,5611)	1:69:A:GLU:HA	1:112:A:PHE:HE1	10	1.98	0.13	1.92
(1,952)	1:75:A:ILE:HB	1:74:A:PHE:HD1	10	1.93	0.04	1.92
(1,5719)	1:75:A:ILE:HB	1:74:A:PHE:HD1	10	1.93	0.04	1.92
(1,2315)	1:152:A:LEU:HD23	1:74:A:PHE:HE1	10	1.87	0.04	1.88
(1,2315)	1:152:A:LEU:HD22	1:74:A:PHE:HE1	10	1.87	0.04	1.88
(1,2315)	1:152:A:LEU:HD21	1:74:A:PHE:HE1	10	1.87	0.04	1.88
(1,7082)	1:152:A:LEU:HD23	1:74:A:PHE:HE1	10	1.87	0.04	1.88
(1,7082)	1:152:A:LEU:HD22	1:74:A:PHE:HE1	10	1.87	0.04	1.88
(1,7082)	1:152:A:LEU:HD21	1:74:A:PHE:HE1	10	1.87	0.04	1.88
(1,670)	1:63:A:MET:HB3	1:105:A:PHE:HD1	10	1.78	0.15	1.78
(1,5437)	1:63:A:MET:HB3	1:105:A:PHE:HD1	10	1.78	0.15	1.78
(1,958)	1:75:A:ILE:HD12	1:74:A:PHE:HD1	10	1.69	0.06	1.7
(1,958)	1:75:A:ILE:HD11	1:74:A:PHE:HD1	10	1.69	0.06	1.7
(1,958)	1:75:A:ILE:HD13	1:74:A:PHE:HD1	10	1.69	0.06	1.7
(1,5725)	1:75:A:ILE:HD12	1:74:A:PHE:HD1	10	1.69	0.06	1.7
(1,5725)	1:75:A:ILE:HD11	1:74:A:PHE:HD1	10	1.69	0.06	1.7
(1,5725)	1:75:A:ILE:HD13	1:74:A:PHE:HD1	10	1.69	0.06	1.7
(1,957)	1:75:A:ILE:HD12	1:74:A:PHE:HE1	10	1.67	0.04	1.68
(1,957)	1:75:A:ILE:HD11	1:74:A:PHE:HE1	10	1.67	0.04	1.68
(1,957)	1:75:A:ILE:HD13	1:74:A:PHE:HE1	10	1.67	0.04	1.68
(1,5724)	1:75:A:ILE:HD12	1:74:A:PHE:HE1	10	1.67	0.04	1.68
(1,5724)	1:75:A:ILE:HD11	1:74:A:PHE:HE1	10	1.67	0.04	1.68
(1,5724)	1:75:A:ILE:HD13	1:74:A:PHE:HE1	10	1.67	0.04	1.68
(1,2612)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	10	1.62	0.13	1.63
(1,7379)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	10	1.62	0.13	1.63
(1,4488)	1:131:A:LEU:HD21	1:88:A:ASP:HB2	10	1.59	0.15	1.67
(1,4488)	1:131:A:LEU:HD22	1:88:A:ASP:HB3	10	1.59	0.15	1.67
(1,4488)	1:131:A:LEU:HD22	1:88:A:ASP:HB2	10	1.59	0.15	1.67
(1,4488)	1:131:A:LEU:HD23	1:88:A:ASP:HB3	10	1.59	0.15	1.67
(1,4488)	1:131:A:LEU:HD23	1:88:A:ASP:HB2	10	1.59	0.15	1.67
(1,4667)	1:131:A:LEU:HD21	1:88:A:ASP:HB2	10	1.59	0.15	1.67
(1,4667)	1:131:A:LEU:HD22	1:88:A:ASP:HB3	10	1.59	0.15	1.67
(1,4667)	1:131:A:LEU:HD22	1:88:A:ASP:HB2	10	1.59	0.15	1.67
(1,4667)	1:131:A:LEU:HD23	1:88:A:ASP:HB3	10	1.59	0.15	1.67
(1,4667)	1:131:A:LEU:HD23	1:88:A:ASP:HB2	10	1.59	0.15	1.67
(1,2545)	1:32:A:PHE:HE1	1:71:A:GLU:H	10	1.58	0.17	1.63
(1,7312)	1:32:A:PHE:HE1	1:71:A:GLU:H	10	1.58	0.17	1.63
(1,1700)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	10	1.57	0.13	1.56
(1,6467)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	10	1.57	0.13	1.56
(1,4414)	1:38:A:ILE:HD13	1:82:A:GLN:HG2	10	1.55	0.1	1.56

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4414)	1:38:A:ILE:HD12	1:82:A:GLN:HG2	10	1.55	0.1	1.56
(1,4414)	1:38:A:ILE:HD11	1:82:A:GLN:HG2	10	1.55	0.1	1.56
(1,4593)	1:38:A:ILE:HD13	1:82:A:GLN:HG2	10	1.55	0.1	1.56
(1,4593)	1:38:A:ILE:HD12	1:82:A:GLN:HG2	10	1.55	0.1	1.56
(1,4593)	1:38:A:ILE:HD11	1:82:A:GLN:HG2	10	1.55	0.1	1.56
(1,4462)	1:76:A:LEU:HD12	1:88:A:ASP:HB3	10	1.49	0.14	1.56
(1,4462)	1:76:A:LEU:HD11	1:88:A:ASP:HB3	10	1.49	0.14	1.56
(1,4462)	1:76:A:LEU:HD13	1:88:A:ASP:HB3	10	1.49	0.14	1.56
(1,4641)	1:76:A:LEU:HD12	1:88:A:ASP:HB3	10	1.49	0.14	1.56
(1,4641)	1:76:A:LEU:HD11	1:88:A:ASP:HB3	10	1.49	0.14	1.56
(1,4641)	1:76:A:LEU:HD13	1:88:A:ASP:HB3	10	1.49	0.14	1.56
(1,2298)	1:152:A:LEU:HD13	1:74:A:PHE:HE1	10	1.48	0.07	1.48
(1,2298)	1:152:A:LEU:HD11	1:74:A:PHE:HE1	10	1.48	0.07	1.48
(1,2298)	1:152:A:LEU:HD12	1:74:A:PHE:HE1	10	1.48	0.07	1.48
(1,7065)	1:152:A:LEU:HD13	1:74:A:PHE:HE1	10	1.48	0.07	1.48
(1,7065)	1:152:A:LEU:HD11	1:74:A:PHE:HE1	10	1.48	0.07	1.48
(1,7065)	1:152:A:LEU:HD12	1:74:A:PHE:HE1	10	1.48	0.07	1.48
(1,4522)	1:102:A:PHE:HD1	1:49:A:ILE:HD11	10	1.45	0.04	1.46
(1,4522)	1:102:A:PHE:HD1	1:49:A:ILE:HD12	10	1.45	0.04	1.46
(1,4522)	1:102:A:PHE:HD1	1:49:A:ILE:HD13	10	1.45	0.04	1.46
(1,4701)	1:102:A:PHE:HD1	1:49:A:ILE:HD11	10	1.45	0.04	1.46
(1,4701)	1:102:A:PHE:HD1	1:49:A:ILE:HD12	10	1.45	0.04	1.46
(1,4701)	1:102:A:PHE:HD1	1:49:A:ILE:HD13	10	1.45	0.04	1.46
(1,2542)	1:71:A:GLU:HA	1:32:A:PHE:HE1	10	1.41	0.21	1.49
(1,7309)	1:71:A:GLU:HA	1:32:A:PHE:HE1	10	1.41	0.21	1.49
(1,639)	1:38:A:ILE:HD12	1:61:A:ALA:HB3	10	1.38	0.06	1.38
(1,639)	1:38:A:ILE:HD11	1:61:A:ALA:HB1	10	1.38	0.06	1.38
(1,639)	1:38:A:ILE:HD11	1:61:A:ALA:HB3	10	1.38	0.06	1.38
(1,639)	1:38:A:ILE:HD13	1:61:A:ALA:HB3	10	1.38	0.06	1.38
(1,639)	1:38:A:ILE:HD12	1:61:A:ALA:HB1	10	1.38	0.06	1.38
(1,639)	1:38:A:ILE:HD13	1:61:A:ALA:HB2	10	1.38	0.06	1.38
(1,5406)	1:38:A:ILE:HD12	1:61:A:ALA:HB3	10	1.38	0.06	1.38
(1,5406)	1:38:A:ILE:HD11	1:61:A:ALA:HB1	10	1.38	0.06	1.38
(1,5406)	1:38:A:ILE:HD11	1:61:A:ALA:HB3	10	1.38	0.06	1.38
(1,5406)	1:38:A:ILE:HD13	1:61:A:ALA:HB3	10	1.38	0.06	1.38
(1,5406)	1:38:A:ILE:HD12	1:61:A:ALA:HB1	10	1.38	0.06	1.38
(1,5406)	1:38:A:ILE:HD13	1:61:A:ALA:HB2	10	1.38	0.06	1.38
(1,2562)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	10	1.37	0.62	1.19
(1,7329)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	10	1.37	0.62	1.19
(1,4410)	1:28:A:THR:HG22	1:30:A:ILE:HD13	10	1.36	0.06	1.36
(1,4410)	1:28:A:THR:HG22	1:30:A:ILE:HD12	10	1.36	0.06	1.36
(1,4410)	1:28:A:THR:HG23	1:30:A:ILE:HD13	10	1.36	0.06	1.36

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4410)	1:28:A:THR:HG21	1:30:A:ILE:HD12	10	1.36	0.06	1.36
(1,4410)	1:28:A:THR:HG23	1:30:A:ILE:HD12	10	1.36	0.06	1.36
(1,4410)	1:28:A:THR:HG23	1:30:A:ILE:HD11	10	1.36	0.06	1.36
(1,4410)	1:28:A:THR:HG21	1:30:A:ILE:HD13	10	1.36	0.06	1.36
(1,4589)	1:28:A:THR:HG22	1:30:A:ILE:HD13	10	1.36	0.06	1.36
(1,4589)	1:28:A:THR:HG22	1:30:A:ILE:HD12	10	1.36	0.06	1.36
(1,4589)	1:28:A:THR:HG23	1:30:A:ILE:HD13	10	1.36	0.06	1.36
(1,4589)	1:28:A:THR:HG21	1:30:A:ILE:HD12	10	1.36	0.06	1.36
(1,4589)	1:28:A:THR:HG23	1:30:A:ILE:HD12	10	1.36	0.06	1.36
(1,4589)	1:28:A:THR:HG23	1:30:A:ILE:HD11	10	1.36	0.06	1.36
(1,4589)	1:28:A:THR:HG21	1:30:A:ILE:HD13	10	1.36	0.06	1.36
(1,4455)	1:73:A:ALA:HB2	1:112:A:PHE:HE2	10	1.35	0.08	1.39
(1,4455)	1:73:A:ALA:HB3	1:112:A:PHE:HE2	10	1.35	0.08	1.39
(1,4455)	1:73:A:ALA:HB1	1:112:A:PHE:HE2	10	1.35	0.08	1.39
(1,4634)	1:73:A:ALA:HB2	1:112:A:PHE:HE2	10	1.35	0.08	1.39
(1,4634)	1:73:A:ALA:HB3	1:112:A:PHE:HE2	10	1.35	0.08	1.39
(1,4634)	1:73:A:ALA:HB1	1:112:A:PHE:HE2	10	1.35	0.08	1.39
(1,2736)	1:105:A:PHE:HD1	1:104:A:TRP:HA	10	1.31	0.04	1.31
(1,7503)	1:105:A:PHE:HD1	1:104:A:TRP:HA	10	1.31	0.04	1.31
(1,1701)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	10	1.17	0.12	1.18
(1,6468)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	10	1.17	0.12	1.18
(1,66)	1:28:A:THR:HG22	1:38:A:ILE:HG23	10	1.16	0.09	1.18
(1,66)	1:28:A:THR:HG22	1:38:A:ILE:HG21	10	1.16	0.09	1.18
(1,66)	1:28:A:THR:HG23	1:38:A:ILE:HG21	10	1.16	0.09	1.18
(1,66)	1:28:A:THR:HG21	1:38:A:ILE:HG23	10	1.16	0.09	1.18
(1,66)	1:28:A:THR:HG21	1:38:A:ILE:HG22	10	1.16	0.09	1.18
(1,66)	1:28:A:THR:HG23	1:38:A:ILE:HG23	10	1.16	0.09	1.18
(1,66)	1:28:A:THR:HG23	1:38:A:ILE:HG22	10	1.16	0.09	1.18
(1,66)	1:28:A:THR:HG21	1:38:A:ILE:HG21	10	1.16	0.09	1.18
(1,4833)	1:28:A:THR:HG22	1:38:A:ILE:HG23	10	1.16	0.09	1.18
(1,4833)	1:28:A:THR:HG22	1:38:A:ILE:HG21	10	1.16	0.09	1.18
(1,4833)	1:28:A:THR:HG23	1:38:A:ILE:HG21	10	1.16	0.09	1.18
(1,4833)	1:28:A:THR:HG21	1:38:A:ILE:HG23	10	1.16	0.09	1.18
(1,4833)	1:28:A:THR:HG21	1:38:A:ILE:HG22	10	1.16	0.09	1.18
(1,4833)	1:28:A:THR:HG23	1:38:A:ILE:HG23	10	1.16	0.09	1.18
(1,4833)	1:28:A:THR:HG23	1:38:A:ILE:HG22	10	1.16	0.09	1.18
(1,4833)	1:28:A:THR:HG21	1:38:A:ILE:HG21	10	1.16	0.09	1.18
(1,4485)	1:125:A:VAL:HG22	1:142:A:ASN:HA	10	1.14	0.03	1.14
(1,4485)	1:125:A:VAL:HG23	1:142:A:ASN:HA	10	1.14	0.03	1.14
(1,4485)	1:125:A:VAL:HG21	1:142:A:ASN:HA	10	1.14	0.03	1.14
(1,4664)	1:125:A:VAL:HG22	1:142:A:ASN:HA	10	1.14	0.03	1.14
(1,4664)	1:125:A:VAL:HG23	1:142:A:ASN:HA	10	1.14	0.03	1.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4664)	1:125:A:VAL:HG21	1:142:A:ASN:HA	10	1.14	0.03	1.14
(1,3386)	1:65:A:SER:H	1:91:A:LEU:HD22	10	1.13	0.09	1.1
(1,3386)	1:65:A:SER:H	1:91:A:LEU:HD23	10	1.13	0.09	1.1
(1,3386)	1:65:A:SER:H	1:91:A:LEU:HD21	10	1.13	0.09	1.1
(1,8153)	1:65:A:SER:H	1:91:A:LEU:HD22	10	1.13	0.09	1.1
(1,8153)	1:65:A:SER:H	1:91:A:LEU:HD23	10	1.13	0.09	1.1
(1,8153)	1:65:A:SER:H	1:91:A:LEU:HD21	10	1.13	0.09	1.1
(1,4562)	1:77:A:ASP:H	1:131:A:LEU:HD23	10	1.11	0.03	1.12
(1,4562)	1:77:A:ASP:H	1:131:A:LEU:HD21	10	1.11	0.03	1.12
(1,4562)	1:77:A:ASP:H	1:131:A:LEU:HD22	10	1.11	0.03	1.12
(1,4741)	1:77:A:ASP:H	1:131:A:LEU:HD23	10	1.11	0.03	1.12
(1,4741)	1:77:A:ASP:H	1:131:A:LEU:HD21	10	1.11	0.03	1.12
(1,4741)	1:77:A:ASP:H	1:131:A:LEU:HD22	10	1.11	0.03	1.12
(1,303)	1:38:A:ILE:HD12	1:40:A:LEU:HD21	10	1.1	0.07	1.1
(1,303)	1:38:A:ILE:HD11	1:40:A:LEU:HD21	10	1.1	0.07	1.1
(1,303)	1:38:A:ILE:HD13	1:40:A:LEU:HD21	10	1.1	0.07	1.1
(1,303)	1:38:A:ILE:HD11	1:40:A:LEU:HD22	10	1.1	0.07	1.1
(1,303)	1:38:A:ILE:HD12	1:40:A:LEU:HD23	10	1.1	0.07	1.1
(1,303)	1:38:A:ILE:HD11	1:40:A:LEU:HD23	10	1.1	0.07	1.1
(1,303)	1:38:A:ILE:HD13	1:40:A:LEU:HD23	10	1.1	0.07	1.1
(1,5070)	1:38:A:ILE:HD12	1:40:A:LEU:HD21	10	1.1	0.07	1.1
(1,5070)	1:38:A:ILE:HD11	1:40:A:LEU:HD21	10	1.1	0.07	1.1
(1,5070)	1:38:A:ILE:HD13	1:40:A:LEU:HD21	10	1.1	0.07	1.1
(1,5070)	1:38:A:ILE:HD11	1:40:A:LEU:HD22	10	1.1	0.07	1.1
(1,5070)	1:38:A:ILE:HD12	1:40:A:LEU:HD23	10	1.1	0.07	1.1
(1,5070)	1:38:A:ILE:HD11	1:40:A:LEU:HD23	10	1.1	0.07	1.1
(1,5070)	1:38:A:ILE:HD13	1:40:A:LEU:HD23	10	1.1	0.07	1.1
(1,2641)	1:40:A:LEU:HD12	1:83:A:TRP:HZ2	10	1.09	0.02	1.08
(1,2641)	1:40:A:LEU:HD11	1:83:A:TRP:HZ2	10	1.09	0.02	1.08
(1,2641)	1:40:A:LEU:HD13	1:83:A:TRP:HZ2	10	1.09	0.02	1.08
(1,7408)	1:40:A:LEU:HD12	1:83:A:TRP:HZ2	10	1.09	0.02	1.08
(1,7408)	1:40:A:LEU:HD11	1:83:A:TRP:HZ2	10	1.09	0.02	1.08
(1,7408)	1:40:A:LEU:HD13	1:83:A:TRP:HZ2	10	1.09	0.02	1.08
(1,1879)	1:129:A:ALA:HB3	1:91:A:LEU:HD13	10	1.09	0.13	1.12
(1,1879)	1:129:A:ALA:HB1	1:91:A:LEU:HD12	10	1.09	0.13	1.12
(1,1879)	1:129:A:ALA:HB2	1:91:A:LEU:HD12	10	1.09	0.13	1.12
(1,1879)	1:129:A:ALA:HB1	1:91:A:LEU:HD11	10	1.09	0.13	1.12
(1,1879)	1:129:A:ALA:HB3	1:91:A:LEU:HD11	10	1.09	0.13	1.12
(1,1879)	1:129:A:ALA:HB1	1:91:A:LEU:HD13	10	1.09	0.13	1.12
(1,6646)	1:129:A:ALA:HB3	1:91:A:LEU:HD13	10	1.09	0.13	1.12
(1,6646)	1:129:A:ALA:HB1	1:91:A:LEU:HD12	10	1.09	0.13	1.12
(1,6646)	1:129:A:ALA:HB2	1:91:A:LEU:HD12	10	1.09	0.13	1.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6646)	1:129:A:ALA:HB1	1:91:A:LEU:HD11	10	1.09	0.13	1.12
(1,6646)	1:129:A:ALA:HB3	1:91:A:LEU:HD11	10	1.09	0.13	1.12
(1,6646)	1:129:A:ALA:HB1	1:91:A:LEU:HD13	10	1.09	0.13	1.12
(1,4486)	1:131:A:LEU:HD11	1:138:A:TRP:HB2	10	1.08	0.05	1.08
(1,4486)	1:131:A:LEU:HD13	1:88:A:ASP:HB3	10	1.08	0.05	1.08
(1,4486)	1:131:A:LEU:HD12	1:88:A:ASP:HB3	10	1.08	0.05	1.08
(1,4486)	1:131:A:LEU:HD13	1:138:A:TRP:HB2	10	1.08	0.05	1.08
(1,4486)	1:131:A:LEU:HD12	1:138:A:TRP:HB2	10	1.08	0.05	1.08
(1,4665)	1:131:A:LEU:HD11	1:138:A:TRP:HB2	10	1.08	0.05	1.08
(1,4665)	1:131:A:LEU:HD13	1:88:A:ASP:HB3	10	1.08	0.05	1.08
(1,4665)	1:131:A:LEU:HD12	1:88:A:ASP:HB3	10	1.08	0.05	1.08
(1,4665)	1:131:A:LEU:HD13	1:138:A:TRP:HB2	10	1.08	0.05	1.08
(1,4665)	1:131:A:LEU:HD12	1:138:A:TRP:HB2	10	1.08	0.05	1.08
(1,3512)	1:73:A:ALA:H	1:74:A:PHE:HD1	10	1.08	0.05	1.07
(1,8279)	1:73:A:ALA:H	1:74:A:PHE:HD1	10	1.08	0.05	1.07
(1,1895)	1:90:A:LEU:HD13	1:130:A:PHE:HA	10	1.07	0.03	1.08
(1,1895)	1:90:A:LEU:HD12	1:130:A:PHE:HA	10	1.07	0.03	1.08
(1,1895)	1:90:A:LEU:HD11	1:130:A:PHE:HA	10	1.07	0.03	1.08
(1,6662)	1:90:A:LEU:HD13	1:130:A:PHE:HA	10	1.07	0.03	1.08
(1,6662)	1:90:A:LEU:HD12	1:130:A:PHE:HA	10	1.07	0.03	1.08
(1,6662)	1:90:A:LEU:HD11	1:130:A:PHE:HA	10	1.07	0.03	1.08
(1,2423)	1:157:A:ILE:HD11	1:158:A:PRO:HD3	10	1.05	0.16	1.08
(1,2423)	1:157:A:ILE:HD13	1:158:A:PRO:HD3	10	1.05	0.16	1.08
(1,2423)	1:157:A:ILE:HD12	1:158:A:PRO:HD3	10	1.05	0.16	1.08
(1,7190)	1:157:A:ILE:HD11	1:158:A:PRO:HD3	10	1.05	0.16	1.08
(1,7190)	1:157:A:ILE:HD13	1:158:A:PRO:HD3	10	1.05	0.16	1.08
(1,7190)	1:157:A:ILE:HD12	1:158:A:PRO:HD3	10	1.05	0.16	1.08
(1,286)	1:40:A:LEU:HD13	1:64:A:ILE:H	10	1.01	0.03	1.01
(1,286)	1:40:A:LEU:HD12	1:64:A:ILE:H	10	1.01	0.03	1.01
(1,286)	1:40:A:LEU:HD11	1:64:A:ILE:H	10	1.01	0.03	1.01
(1,5053)	1:40:A:LEU:HD13	1:64:A:ILE:H	10	1.01	0.03	1.01
(1,5053)	1:40:A:LEU:HD12	1:64:A:ILE:H	10	1.01	0.03	1.01
(1,5053)	1:40:A:LEU:HD11	1:64:A:ILE:H	10	1.01	0.03	1.01
(1,2738)	1:63:A:MET:HB2	1:105:A:PHE:HD1	10	1.0	0.16	1.01
(1,7505)	1:63:A:MET:HB2	1:105:A:PHE:HD1	10	1.0	0.16	1.01
(1,3528)	1:75:A:ILE:H	1:74:A:PHE:HD1	10	0.96	0.04	0.96
(1,8295)	1:75:A:ILE:H	1:74:A:PHE:HD1	10	0.96	0.04	0.96
(1,2296)	1:152:A:LEU:HD13	1:154:A:LYS:H	10	0.95	0.01	0.95
(1,2296)	1:152:A:LEU:HD12	1:154:A:LYS:H	10	0.95	0.01	0.95
(1,2296)	1:152:A:LEU:HD11	1:154:A:LYS:H	10	0.95	0.01	0.95
(1,7063)	1:152:A:LEU:HD13	1:154:A:LYS:H	10	0.95	0.01	0.95
(1,7063)	1:152:A:LEU:HD12	1:154:A:LYS:H	10	0.95	0.01	0.95

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,7063)	1:152:A:LEU:HD11	1:154:A:LYS:H	10	0.95	0.01	0.95
(1,3844)	1:105:A:PHE:H	1:105:A:PHE:HE1	10	0.93	0.04	0.91
(1,8611)	1:105:A:PHE:H	1:105:A:PHE:HE1	10	0.93	0.04	0.91
(1,3527)	1:75:A:ILE:H	1:74:A:PHE:HE1	10	0.9	0.04	0.9
(1,8294)	1:75:A:ILE:H	1:74:A:PHE:HE1	10	0.9	0.04	0.9
(1,1300)	1:89:A:ILE:HG21	1:83:A:TRP:HB2	10	0.88	0.05	0.89
(1,1300)	1:89:A:ILE:HG22	1:83:A:TRP:HB2	10	0.88	0.05	0.89
(1,1300)	1:89:A:ILE:HG23	1:83:A:TRP:HB2	10	0.88	0.05	0.89
(1,6067)	1:89:A:ILE:HG21	1:83:A:TRP:HB2	10	0.88	0.05	0.89
(1,6067)	1:89:A:ILE:HG22	1:83:A:TRP:HB2	10	0.88	0.05	0.89
(1,6067)	1:89:A:ILE:HG23	1:83:A:TRP:HB2	10	0.88	0.05	0.89
(1,1676)	1:113:A:ASP:HB2	1:91:A:LEU:HD22	10	0.87	0.09	0.9
(1,1676)	1:113:A:ASP:HB2	1:91:A:LEU:HD23	10	0.87	0.09	0.9
(1,6443)	1:113:A:ASP:HB2	1:91:A:LEU:HD22	10	0.87	0.09	0.9
(1,6443)	1:113:A:ASP:HB2	1:91:A:LEU:HD23	10	0.87	0.09	0.9
(1,1371)	1:91:A:LEU:HD12	1:136:A:GLY:HA2	10	0.87	0.06	0.9
(1,1371)	1:91:A:LEU:HD11	1:136:A:GLY:HA2	10	0.87	0.06	0.9
(1,1371)	1:91:A:LEU:HD13	1:136:A:GLY:HA2	10	0.87	0.06	0.9
(1,6138)	1:91:A:LEU:HD12	1:136:A:GLY:HA2	10	0.87	0.06	0.9
(1,6138)	1:91:A:LEU:HD11	1:136:A:GLY:HA2	10	0.87	0.06	0.9
(1,6138)	1:91:A:LEU:HD13	1:136:A:GLY:HA2	10	0.87	0.06	0.9
(1,1494)	1:97:A:THR:HG22	1:124:A:LEU:HD21	10	0.85	0.07	0.82
(1,1494)	1:97:A:THR:HG21	1:124:A:LEU:HD21	10	0.85	0.07	0.82
(1,1494)	1:97:A:THR:HG21	1:124:A:LEU:HD23	10	0.85	0.07	0.82
(1,1494)	1:97:A:THR:HG22	1:124:A:LEU:HD23	10	0.85	0.07	0.82
(1,1494)	1:97:A:THR:HG23	1:124:A:LEU:HD23	10	0.85	0.07	0.82
(1,1494)	1:97:A:THR:HG23	1:124:A:LEU:HD22	10	0.85	0.07	0.82
(1,6261)	1:97:A:THR:HG22	1:124:A:LEU:HD21	10	0.85	0.07	0.82
(1,6261)	1:97:A:THR:HG21	1:124:A:LEU:HD21	10	0.85	0.07	0.82
(1,6261)	1:97:A:THR:HG21	1:124:A:LEU:HD23	10	0.85	0.07	0.82
(1,6261)	1:97:A:THR:HG22	1:124:A:LEU:HD23	10	0.85	0.07	0.82
(1,6261)	1:97:A:THR:HG23	1:124:A:LEU:HD23	10	0.85	0.07	0.82
(1,6261)	1:97:A:THR:HG23	1:124:A:LEU:HD22	10	0.85	0.07	0.82
(1,1818)	1:125:A:VAL:HA	1:97:A:THR:HG22	10	0.84	0.04	0.84
(1,1818)	1:125:A:VAL:HA	1:97:A:THR:HG21	10	0.84	0.04	0.84
(1,1818)	1:125:A:VAL:HA	1:97:A:THR:HG23	10	0.84	0.04	0.84
(1,6585)	1:125:A:VAL:HA	1:97:A:THR:HG22	10	0.84	0.04	0.84
(1,6585)	1:125:A:VAL:HA	1:97:A:THR:HG21	10	0.84	0.04	0.84
(1,6585)	1:125:A:VAL:HA	1:97:A:THR:HG23	10	0.84	0.04	0.84
(1,3691)	1:92:A:GLY:H	1:131:A:LEU:HD22	10	0.84	0.04	0.84
(1,3691)	1:92:A:GLY:H	1:131:A:LEU:HD23	10	0.84	0.04	0.84
(1,3691)	1:92:A:GLY:H	1:131:A:LEU:HD21	10	0.84	0.04	0.84

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,8458)	1:92:A:GLY:H	1:131:A:LEU:HD22	10	0.84	0.04	0.84
(1,8458)	1:92:A:GLY:H	1:131:A:LEU:HD23	10	0.84	0.04	0.84
(1,8458)	1:92:A:GLY:H	1:131:A:LEU:HD21	10	0.84	0.04	0.84
(1,4448)	1:66:A:ILE:HG23	1:114:A:LYS:H	10	0.84	0.08	0.8
(1,4448)	1:66:A:ILE:HG21	1:114:A:LYS:H	10	0.84	0.08	0.8
(1,4448)	1:66:A:ILE:HG22	1:114:A:LYS:H	10	0.84	0.08	0.8
(1,4627)	1:66:A:ILE:HG23	1:114:A:LYS:H	10	0.84	0.08	0.8
(1,4627)	1:66:A:ILE:HG21	1:114:A:LYS:H	10	0.84	0.08	0.8
(1,4627)	1:66:A:ILE:HG22	1:114:A:LYS:H	10	0.84	0.08	0.8
(1,2394)	1:155:A:THR:HG23	1:35:A:SER:HB2	10	0.84	0.06	0.86
(1,2394)	1:155:A:THR:HG21	1:35:A:SER:HB2	10	0.84	0.06	0.86
(1,2394)	1:155:A:THR:HG22	1:35:A:SER:HB2	10	0.84	0.06	0.86
(1,7161)	1:155:A:THR:HG23	1:35:A:SER:HB2	10	0.84	0.06	0.86
(1,7161)	1:155:A:THR:HG21	1:35:A:SER:HB2	10	0.84	0.06	0.86
(1,7161)	1:155:A:THR:HG22	1:35:A:SER:HB2	10	0.84	0.06	0.86
(1,568)	1:54:A:ASN:HB2	1:52:A:VAL:HG21	10	0.83	0.02	0.82
(1,568)	1:54:A:ASN:HB2	1:52:A:VAL:HG22	10	0.83	0.02	0.82
(1,568)	1:54:A:ASN:HB2	1:52:A:VAL:HG23	10	0.83	0.02	0.82
(1,5335)	1:54:A:ASN:HB2	1:52:A:VAL:HG21	10	0.83	0.02	0.82
(1,5335)	1:54:A:ASN:HB2	1:52:A:VAL:HG22	10	0.83	0.02	0.82
(1,5335)	1:54:A:ASN:HB2	1:52:A:VAL:HG23	10	0.83	0.02	0.82
(1,4152)	1:137:A:GLU:H	1:89:A:ILE:HD13	10	0.82	0.03	0.82
(1,4152)	1:137:A:GLU:H	1:89:A:ILE:HD12	10	0.82	0.03	0.82
(1,4152)	1:137:A:GLU:H	1:89:A:ILE:HD11	10	0.82	0.03	0.82
(1,8919)	1:137:A:GLU:H	1:89:A:ILE:HD13	10	0.82	0.03	0.82
(1,8919)	1:137:A:GLU:H	1:89:A:ILE:HD12	10	0.82	0.03	0.82
(1,8919)	1:137:A:GLU:H	1:89:A:ILE:HD11	10	0.82	0.03	0.82
(1,2294)	1:152:A:LEU:HD11	1:78:A:THR:H	10	0.82	0.02	0.81
(1,2294)	1:152:A:LEU:HD12	1:78:A:THR:H	10	0.82	0.02	0.81
(1,2294)	1:152:A:LEU:HD13	1:78:A:THR:H	10	0.82	0.02	0.81
(1,7061)	1:152:A:LEU:HD11	1:78:A:THR:H	10	0.82	0.02	0.81
(1,7061)	1:152:A:LEU:HD12	1:78:A:THR:H	10	0.82	0.02	0.81
(1,7061)	1:152:A:LEU:HD13	1:78:A:THR:H	10	0.82	0.02	0.81
(1,1498)	1:97:A:THR:HG22	1:101:A:SER:H	10	0.81	0.04	0.82
(1,1498)	1:97:A:THR:HG23	1:101:A:SER:H	10	0.81	0.04	0.82
(1,1498)	1:97:A:THR:HG21	1:101:A:SER:H	10	0.81	0.04	0.82
(1,2313)	1:152:A:LEU:HD21	1:153:A:CYS:HB2	10	0.81	0.06	0.79
(1,2313)	1:152:A:LEU:HD23	1:153:A:CYS:HB2	10	0.81	0.06	0.79
(1,2313)	1:152:A:LEU:HD22	1:153:A:CYS:HB2	10	0.81	0.06	0.79
(1,6265)	1:97:A:THR:HG22	1:101:A:SER:H	10	0.81	0.04	0.82
(1,6265)	1:97:A:THR:HG23	1:101:A:SER:H	10	0.81	0.04	0.82
(1,6265)	1:97:A:THR:HG21	1:101:A:SER:H	10	0.81	0.04	0.82

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,7080)	1:152:A:LEU:HD21	1:153:A:CYS:HB2	10	0.81	0.06	0.79
(1,7080)	1:152:A:LEU:HD23	1:153:A:CYS:HB2	10	0.81	0.06	0.79
(1,7080)	1:152:A:LEU:HD22	1:153:A:CYS:HB2	10	0.81	0.06	0.79
(1,852)	1:69:A:GLU:HG2	1:73:A:ALA:HB1	10	0.8	0.05	0.8
(1,852)	1:69:A:GLU:HG2	1:73:A:ALA:HB2	10	0.8	0.05	0.8
(1,852)	1:69:A:GLU:HG2	1:73:A:ALA:HB3	10	0.8	0.05	0.8
(1,5619)	1:69:A:GLU:HG2	1:73:A:ALA:HB1	10	0.8	0.05	0.8
(1,5619)	1:69:A:GLU:HG2	1:73:A:ALA:HB2	10	0.8	0.05	0.8
(1,5619)	1:69:A:GLU:HG2	1:73:A:ALA:HB3	10	0.8	0.05	0.8
(1,709)	1:64:A:ILE:HD12	1:74:A:PHE:HB3	10	0.79	0.05	0.78
(1,709)	1:64:A:ILE:HD13	1:74:A:PHE:HB3	10	0.79	0.05	0.78
(1,709)	1:64:A:ILE:HD11	1:74:A:PHE:HB3	10	0.79	0.05	0.78
(1,5476)	1:64:A:ILE:HD12	1:74:A:PHE:HB3	10	0.79	0.05	0.78
(1,5476)	1:64:A:ILE:HD13	1:74:A:PHE:HB3	10	0.79	0.05	0.78
(1,5476)	1:64:A:ILE:HD11	1:74:A:PHE:HB3	10	0.79	0.05	0.78
(1,2461)	1:156:A:ALA:HB2	1:158:A:PRO:HD2	10	0.79	0.04	0.79
(1,2461)	1:156:A:ALA:HB3	1:158:A:PRO:HD2	10	0.79	0.04	0.79
(1,2461)	1:156:A:ALA:HB1	1:158:A:PRO:HD2	10	0.79	0.04	0.79
(1,7228)	1:156:A:ALA:HB2	1:158:A:PRO:HD2	10	0.79	0.04	0.79
(1,7228)	1:156:A:ALA:HB3	1:158:A:PRO:HD2	10	0.79	0.04	0.79
(1,7228)	1:156:A:ALA:HB1	1:158:A:PRO:HD2	10	0.79	0.04	0.79
(1,4428)	1:52:A:VAL:HG13	1:46:A:VAL:HA	10	0.79	0.03	0.78
(1,4428)	1:52:A:VAL:HG11	1:46:A:VAL:HA	10	0.79	0.03	0.78
(1,4428)	1:52:A:VAL:HG12	1:46:A:VAL:HA	10	0.79	0.03	0.78
(1,4607)	1:52:A:VAL:HG13	1:46:A:VAL:HA	10	0.79	0.03	0.78
(1,4607)	1:52:A:VAL:HG11	1:46:A:VAL:HA	10	0.79	0.03	0.78
(1,4607)	1:52:A:VAL:HG12	1:46:A:VAL:HA	10	0.79	0.03	0.78
(1,3560)	1:78:A:THR:H	1:76:A:LEU:HD23	10	0.78	0.04	0.79
(1,3560)	1:78:A:THR:H	1:76:A:LEU:HD21	10	0.78	0.04	0.79
(1,8327)	1:78:A:THR:H	1:76:A:LEU:HD23	10	0.78	0.04	0.79
(1,8327)	1:78:A:THR:H	1:76:A:LEU:HD21	10	0.78	0.04	0.79
(1,4425)	1:49:A:ILE:HG23	1:143:A:CYS:HA	10	0.78	0.1	0.8
(1,4425)	1:49:A:ILE:HG22	1:143:A:CYS:HA	10	0.78	0.1	0.8
(1,4425)	1:49:A:ILE:HG21	1:143:A:CYS:HA	10	0.78	0.1	0.8
(1,4604)	1:49:A:ILE:HG23	1:143:A:CYS:HA	10	0.78	0.1	0.8
(1,4604)	1:49:A:ILE:HG22	1:143:A:CYS:HA	10	0.78	0.1	0.8
(1,4604)	1:49:A:ILE:HG21	1:143:A:CYS:HA	10	0.78	0.1	0.8
(1,4437)	1:93:A:MET:H	1:63:A:MET:HE2	10	0.78	0.05	0.78
(1,4437)	1:93:A:MET:H	1:63:A:MET:HE3	10	0.78	0.05	0.78
(1,4437)	1:92:A:GLY:H	1:63:A:MET:HE1	10	0.78	0.05	0.78
(1,4616)	1:93:A:MET:H	1:63:A:MET:HE2	10	0.78	0.05	0.78
(1,4616)	1:93:A:MET:H	1:63:A:MET:HE3	10	0.78	0.05	0.78

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4616)	1:92:A:GLY:H	1:63:A:MET:HE1	10	0.78	0.05	0.78
(1,2608)	1:71:A:GLU:HA	1:74:A:PHE:HD1	10	0.77	0.14	0.82
(1,7375)	1:71:A:GLU:HA	1:74:A:PHE:HD1	10	0.77	0.14	0.82
(1,1013)	1:76:A:LEU:HD13	1:138:A:TRP:HZ2	10	0.77	0.02	0.76
(1,1013)	1:76:A:LEU:HD12	1:138:A:TRP:HZ2	10	0.77	0.02	0.76
(1,1013)	1:76:A:LEU:HD11	1:138:A:TRP:HZ2	10	0.77	0.02	0.76
(1,5780)	1:76:A:LEU:HD13	1:138:A:TRP:HZ2	10	0.77	0.02	0.76
(1,5780)	1:76:A:LEU:HD12	1:138:A:TRP:HZ2	10	0.77	0.02	0.76
(1,5780)	1:76:A:LEU:HD11	1:138:A:TRP:HZ2	10	0.77	0.02	0.76
(1,290)	1:42:A:GLU:H	1:40:A:LEU:HD11	10	0.77	0.01	0.77
(1,290)	1:42:A:GLU:H	1:40:A:LEU:HD13	10	0.77	0.01	0.77
(1,290)	1:42:A:GLU:H	1:40:A:LEU:HD12	10	0.77	0.01	0.77
(1,5057)	1:42:A:GLU:H	1:40:A:LEU:HD11	10	0.77	0.01	0.77
(1,5057)	1:42:A:GLU:H	1:40:A:LEU:HD13	10	0.77	0.01	0.77
(1,5057)	1:42:A:GLU:H	1:40:A:LEU:HD12	10	0.77	0.01	0.77
(1,4564)	1:83:A:TRP:H	1:79:A:LEU:HB2	10	0.77	0.03	0.76
(1,4743)	1:83:A:TRP:H	1:79:A:LEU:HB2	10	0.77	0.03	0.76
(1,4242)	1:142:A:ASN:HD21	1:124:A:LEU:HD21	10	0.77	0.03	0.77
(1,4242)	1:142:A:ASN:HD21	1:124:A:LEU:HD23	10	0.77	0.03	0.77
(1,4242)	1:142:A:ASN:HD21	1:124:A:LEU:HD22	10	0.77	0.03	0.77
(1,9009)	1:142:A:ASN:HD21	1:124:A:LEU:HD21	10	0.77	0.03	0.77
(1,9009)	1:142:A:ASN:HD21	1:124:A:LEU:HD23	10	0.77	0.03	0.77
(1,9009)	1:142:A:ASN:HD21	1:124:A:LEU:HD22	10	0.77	0.03	0.77
(1,797)	1:66:A:ILE:HG22	1:69:A:GLU:H	10	0.77	0.03	0.77
(1,797)	1:66:A:ILE:HG23	1:69:A:GLU:H	10	0.77	0.03	0.77
(1,797)	1:66:A:ILE:HG21	1:69:A:GLU:H	10	0.77	0.03	0.77
(1,5564)	1:66:A:ILE:HG22	1:69:A:GLU:H	10	0.77	0.03	0.77
(1,5564)	1:66:A:ILE:HG23	1:69:A:GLU:H	10	0.77	0.03	0.77
(1,5564)	1:66:A:ILE:HG21	1:69:A:GLU:H	10	0.77	0.03	0.77
(1,4419)	1:46:A:VAL:HG22	1:44:A:ILE:HB	10	0.76	0.04	0.76
(1,4419)	1:46:A:VAL:HG21	1:44:A:ILE:HB	10	0.76	0.04	0.76
(1,4598)	1:46:A:VAL:HG22	1:44:A:ILE:HB	10	0.76	0.04	0.76
(1,4598)	1:46:A:VAL:HG21	1:44:A:ILE:HB	10	0.76	0.04	0.76
(1,2318)	1:152:A:LEU:HD22	1:152:A:LEU:HA	10	0.76	0.03	0.76
(1,2318)	1:152:A:LEU:HD21	1:152:A:LEU:HA	10	0.76	0.03	0.76
(1,2318)	1:152:A:LEU:HD23	1:152:A:LEU:HA	10	0.76	0.03	0.76
(1,7085)	1:152:A:LEU:HD22	1:152:A:LEU:HA	10	0.76	0.03	0.76
(1,7085)	1:152:A:LEU:HD21	1:152:A:LEU:HA	10	0.76	0.03	0.76
(1,7085)	1:152:A:LEU:HD23	1:152:A:LEU:HA	10	0.76	0.03	0.76
(1,1096)	1:79:A:LEU:HD21	1:83:A:TRP:HB2	10	0.76	0.02	0.76
(1,1096)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	10	0.76	0.02	0.76
(1,1096)	1:79:A:LEU:HD22	1:83:A:TRP:HB2	10	0.76	0.02	0.76

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5863)	1:79:A:LEU:HD21	1:83:A:TRP:HB2	10	0.76	0.02	0.76
(1,5863)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	10	0.76	0.02	0.76
(1,5863)	1:79:A:LEU:HD22	1:83:A:TRP:HB2	10	0.76	0.02	0.76
(1,549)	1:52:A:VAL:HG23	1:149:A:GLU:H	10	0.76	0.05	0.75
(1,549)	1:52:A:VAL:HG21	1:149:A:GLU:H	10	0.76	0.05	0.75
(1,549)	1:52:A:VAL:HG22	1:149:A:GLU:H	10	0.76	0.05	0.75
(1,5316)	1:52:A:VAL:HG23	1:149:A:GLU:H	10	0.76	0.05	0.75
(1,5316)	1:52:A:VAL:HG21	1:149:A:GLU:H	10	0.76	0.05	0.75
(1,5316)	1:52:A:VAL:HG22	1:149:A:GLU:H	10	0.76	0.05	0.75
(1,404)	1:46:A:VAL:HG13	1:48:A:SER:HB3	10	0.74	0.04	0.75
(1,404)	1:46:A:VAL:HG11	1:48:A:SER:HB3	10	0.74	0.04	0.75
(1,404)	1:46:A:VAL:HG12	1:48:A:SER:HB3	10	0.74	0.04	0.75
(1,5171)	1:46:A:VAL:HG13	1:48:A:SER:HB3	10	0.74	0.04	0.75
(1,5171)	1:46:A:VAL:HG11	1:48:A:SER:HB3	10	0.74	0.04	0.75
(1,5171)	1:46:A:VAL:HG12	1:48:A:SER:HB3	10	0.74	0.04	0.75
(1,470)	1:49:A:ILE:H	1:49:A:ILE:HD12	10	0.74	0.02	0.74
(1,470)	1:49:A:ILE:H	1:49:A:ILE:HD13	10	0.74	0.02	0.74
(1,470)	1:49:A:ILE:H	1:49:A:ILE:HD11	10	0.74	0.02	0.74
(1,5237)	1:49:A:ILE:H	1:49:A:ILE:HD12	10	0.74	0.02	0.74
(1,5237)	1:49:A:ILE:H	1:49:A:ILE:HD13	10	0.74	0.02	0.74
(1,5237)	1:49:A:ILE:H	1:49:A:ILE:HD11	10	0.74	0.02	0.74
(1,4583)	1:138:A:TRP:HE1	1:137:A:GLU:HG2	10	0.74	0.07	0.76
(1,4583)	1:138:A:TRP:HE1	1:137:A:GLU:HB2	10	0.74	0.07	0.76
(1,4762)	1:138:A:TRP:HE1	1:137:A:GLU:HG2	10	0.74	0.07	0.76
(1,4762)	1:138:A:TRP:HE1	1:137:A:GLU:HB2	10	0.74	0.07	0.76
(1,485)	1:49:A:ILE:HG22	1:53:A:ARG:HD3	10	0.74	0.02	0.74
(1,485)	1:49:A:ILE:HG21	1:53:A:ARG:HD3	10	0.74	0.02	0.74
(1,485)	1:49:A:ILE:HG23	1:53:A:ARG:HD3	10	0.74	0.02	0.74
(1,5252)	1:49:A:ILE:HG22	1:53:A:ARG:HD3	10	0.74	0.02	0.74
(1,5252)	1:49:A:ILE:HG21	1:53:A:ARG:HD3	10	0.74	0.02	0.74
(1,5252)	1:49:A:ILE:HG23	1:53:A:ARG:HD3	10	0.74	0.02	0.74
(1,4097)	1:132:A:HIS:H	1:131:A:LEU:HD23	10	0.74	0.02	0.74
(1,4097)	1:132:A:HIS:H	1:131:A:LEU:HD21	10	0.74	0.02	0.74
(1,4097)	1:132:A:HIS:H	1:131:A:LEU:HD22	10	0.74	0.02	0.74
(1,8864)	1:132:A:HIS:H	1:131:A:LEU:HD23	10	0.74	0.02	0.74
(1,8864)	1:132:A:HIS:H	1:131:A:LEU:HD21	10	0.74	0.02	0.74
(1,8864)	1:132:A:HIS:H	1:131:A:LEU:HD22	10	0.74	0.02	0.74
(1,1849)	1:127:A:THR:HG21	1:139:A:LYS:HA	10	0.73	0.07	0.72
(1,1849)	1:127:A:THR:HG23	1:139:A:LYS:HA	10	0.73	0.07	0.72
(1,1849)	1:127:A:THR:HG22	1:139:A:LYS:HA	10	0.73	0.07	0.72
(1,6616)	1:127:A:THR:HG21	1:139:A:LYS:HA	10	0.73	0.07	0.72
(1,6616)	1:127:A:THR:HG23	1:139:A:LYS:HA	10	0.73	0.07	0.72

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6616)	1:127:A:THR:HG22	1:139:A:LYS:HA	10	0.73	0.07	0.72
(1,969)	1:75:A:ILE:HG22	1:78:A:THR:HG21	10	0.73	0.13	0.73
(1,969)	1:75:A:ILE:HG21	1:78:A:THR:HG21	10	0.73	0.13	0.73
(1,969)	1:75:A:ILE:HG21	1:78:A:THR:HG22	10	0.73	0.13	0.73
(1,969)	1:75:A:ILE:HG23	1:78:A:THR:HG23	10	0.73	0.13	0.73
(1,969)	1:75:A:ILE:HG22	1:78:A:THR:HG23	10	0.73	0.13	0.73
(1,969)	1:75:A:ILE:HG23	1:78:A:THR:HG21	10	0.73	0.13	0.73
(1,969)	1:75:A:ILE:HG22	1:78:A:THR:HG22	10	0.73	0.13	0.73
(1,5736)	1:75:A:ILE:HG22	1:78:A:THR:HG21	10	0.73	0.13	0.73
(1,5736)	1:75:A:ILE:HG21	1:78:A:THR:HG21	10	0.73	0.13	0.73
(1,5736)	1:75:A:ILE:HG21	1:78:A:THR:HG22	10	0.73	0.13	0.73
(1,5736)	1:75:A:ILE:HG23	1:78:A:THR:HG23	10	0.73	0.13	0.73
(1,5736)	1:75:A:ILE:HG22	1:78:A:THR:HG23	10	0.73	0.13	0.73
(1,5736)	1:75:A:ILE:HG23	1:78:A:THR:HG21	10	0.73	0.13	0.73
(1,5736)	1:75:A:ILE:HG22	1:78:A:THR:HG22	10	0.73	0.13	0.73
(1,1108)	1:79:A:LEU:HD23	1:89:A:ILE:HG12	10	0.72	0.04	0.71
(1,1108)	1:79:A:LEU:HD22	1:89:A:ILE:HG12	10	0.72	0.04	0.71
(1,1108)	1:79:A:LEU:HD21	1:89:A:ILE:HG12	10	0.72	0.04	0.71
(1,5875)	1:79:A:LEU:HD23	1:89:A:ILE:HG12	10	0.72	0.04	0.71
(1,5875)	1:79:A:LEU:HD22	1:89:A:ILE:HG12	10	0.72	0.04	0.71
(1,5875)	1:79:A:LEU:HD21	1:89:A:ILE:HG12	10	0.72	0.04	0.71
(1,4587)	1:152:A:LEU:H	1:152:A:LEU:HD22	10	0.72	0.02	0.72
(1,4587)	1:152:A:LEU:H	1:152:A:LEU:HD12	10	0.72	0.02	0.72
(1,4587)	1:152:A:LEU:H	1:152:A:LEU:HD13	10	0.72	0.02	0.72
(1,4587)	1:152:A:LEU:H	1:152:A:LEU:HD11	10	0.72	0.02	0.72
(1,4766)	1:152:A:LEU:H	1:152:A:LEU:HD22	10	0.72	0.02	0.72
(1,4766)	1:152:A:LEU:H	1:152:A:LEU:HD12	10	0.72	0.02	0.72
(1,4766)	1:152:A:LEU:H	1:152:A:LEU:HD13	10	0.72	0.02	0.72
(1,4766)	1:152:A:LEU:H	1:152:A:LEU:HD11	10	0.72	0.02	0.72
(1,979)	1:75:A:ILE:H	1:75:A:ILE:HG22	10	0.72	0.03	0.72
(1,979)	1:75:A:ILE:H	1:75:A:ILE:HG21	10	0.72	0.03	0.72
(1,979)	1:75:A:ILE:H	1:75:A:ILE:HG23	10	0.72	0.03	0.72
(1,5746)	1:75:A:ILE:H	1:75:A:ILE:HG22	10	0.72	0.03	0.72
(1,5746)	1:75:A:ILE:H	1:75:A:ILE:HG21	10	0.72	0.03	0.72
(1,5746)	1:75:A:ILE:H	1:75:A:ILE:HG23	10	0.72	0.03	0.72
(1,2325)	1:152:A:LEU:HG	1:78:A:THR:HG21	10	0.72	0.05	0.7
(1,2325)	1:152:A:LEU:HG	1:78:A:THR:HG22	10	0.72	0.05	0.7
(1,2325)	1:152:A:LEU:HG	1:78:A:THR:HG23	10	0.72	0.05	0.7
(1,7092)	1:152:A:LEU:HG	1:78:A:THR:HG21	10	0.72	0.05	0.7
(1,7092)	1:152:A:LEU:HG	1:78:A:THR:HG22	10	0.72	0.05	0.7
(1,7092)	1:152:A:LEU:HG	1:78:A:THR:HG23	10	0.72	0.05	0.7
(1,2528)	1:38:A:ILE:HD12	1:29:A:TRP:HZ3	10	0.71	0.04	0.72

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2528)	1:38:A:ILE:HD11	1:29:A:TRP:HZ3	10	0.71	0.04	0.72
(1,2528)	1:38:A:ILE:HD13	1:29:A:TRP:HZ3	10	0.71	0.04	0.72
(1,7295)	1:38:A:ILE:HD12	1:29:A:TRP:HZ3	10	0.71	0.04	0.72
(1,7295)	1:38:A:ILE:HD11	1:29:A:TRP:HZ3	10	0.71	0.04	0.72
(1,7295)	1:38:A:ILE:HD13	1:29:A:TRP:HZ3	10	0.71	0.04	0.72
(1,4125)	1:135:A:THR:H	1:133:A:ILE:HD12	10	0.71	0.05	0.7
(1,4125)	1:135:A:THR:H	1:133:A:ILE:HD11	10	0.71	0.05	0.7
(1,4125)	1:135:A:THR:H	1:133:A:ILE:HD13	10	0.71	0.05	0.7
(1,4439)	1:64:A:ILE:HA	1:154:A:LYS:HE3	10	0.71	0.17	0.78
(1,4439)	1:64:A:ILE:HA	1:154:A:LYS:HE2	10	0.71	0.17	0.78
(1,4618)	1:64:A:ILE:HA	1:154:A:LYS:HE3	10	0.71	0.17	0.78
(1,4618)	1:64:A:ILE:HA	1:154:A:LYS:HE2	10	0.71	0.17	0.78
(1,8892)	1:135:A:THR:H	1:133:A:ILE:HD12	10	0.71	0.05	0.7
(1,8892)	1:135:A:THR:H	1:133:A:ILE:HD11	10	0.71	0.05	0.7
(1,8892)	1:135:A:THR:H	1:133:A:ILE:HD13	10	0.71	0.05	0.7
(1,2006)	1:133:A:ILE:HG21	1:88:A:ASP:HA	10	0.7	0.04	0.72
(1,2006)	1:133:A:ILE:HG23	1:88:A:ASP:HA	10	0.7	0.04	0.72
(1,2006)	1:133:A:ILE:HG22	1:88:A:ASP:HA	10	0.7	0.04	0.72
(1,6773)	1:133:A:ILE:HG21	1:88:A:ASP:HA	10	0.7	0.04	0.72
(1,6773)	1:133:A:ILE:HG23	1:88:A:ASP:HA	10	0.7	0.04	0.72
(1,6773)	1:133:A:ILE:HG22	1:88:A:ASP:HA	10	0.7	0.04	0.72
(1,4424)	1:49:A:ILE:HG23	1:48:A:SER:H	10	0.7	0.03	0.7
(1,4424)	1:49:A:ILE:HG22	1:48:A:SER:H	10	0.7	0.03	0.7
(1,4424)	1:49:A:ILE:HG21	1:48:A:SER:H	10	0.7	0.03	0.7
(1,4603)	1:49:A:ILE:HG23	1:48:A:SER:H	10	0.7	0.03	0.7
(1,4603)	1:49:A:ILE:HG22	1:48:A:SER:H	10	0.7	0.03	0.7
(1,4603)	1:49:A:ILE:HG21	1:48:A:SER:H	10	0.7	0.03	0.7
(1,4458)	1:75:A:ILE:HG22	1:152:A:LEU:HB3	10	0.69	0.06	0.67
(1,4458)	1:75:A:ILE:HG21	1:152:A:LEU:HB3	10	0.69	0.06	0.67
(1,4458)	1:75:A:ILE:HG23	1:152:A:LEU:HB3	10	0.69	0.06	0.67
(1,4637)	1:75:A:ILE:HG22	1:152:A:LEU:HB3	10	0.69	0.06	0.67
(1,4637)	1:75:A:ILE:HG21	1:152:A:LEU:HB3	10	0.69	0.06	0.67
(1,4637)	1:75:A:ILE:HG23	1:152:A:LEU:HB3	10	0.69	0.06	0.67
(1,2544)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	10	0.69	0.08	0.7
(1,7311)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	10	0.69	0.08	0.7
(1,4388)	1:157:A:ILE:H	1:157:A:ILE:HD13	10	0.68	0.07	0.7
(1,4388)	1:157:A:ILE:H	1:157:A:ILE:HD12	10	0.68	0.07	0.7
(1,4388)	1:157:A:ILE:H	1:157:A:ILE:HD11	10	0.68	0.07	0.7
(1,9155)	1:157:A:ILE:H	1:157:A:ILE:HD13	10	0.68	0.07	0.7
(1,9155)	1:157:A:ILE:H	1:157:A:ILE:HD12	10	0.68	0.07	0.7
(1,9155)	1:157:A:ILE:H	1:157:A:ILE:HD11	10	0.68	0.07	0.7
(1,2539)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	10	0.68	0.01	0.68

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,7306)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	10	0.68	0.01	0.68
(1,173)	1:36:A:CYS:HA	1:74:A:PHE:HE1	10	0.68	0.1	0.66
(1,309)	1:40:A:LEU:HD22	1:55:A:GLN:HG3	10	0.68	0.02	0.68
(1,309)	1:40:A:LEU:HD23	1:55:A:GLN:HG3	10	0.68	0.02	0.68
(1,309)	1:40:A:LEU:HD21	1:55:A:GLN:HG3	10	0.68	0.02	0.68
(1,4940)	1:36:A:CYS:HA	1:74:A:PHE:HE1	10	0.68	0.1	0.66
(1,5076)	1:40:A:LEU:HD22	1:55:A:GLN:HG3	10	0.68	0.02	0.68
(1,5076)	1:40:A:LEU:HD23	1:55:A:GLN:HG3	10	0.68	0.02	0.68
(1,5076)	1:40:A:LEU:HD21	1:55:A:GLN:HG3	10	0.68	0.02	0.68
(1,1632)	1:110:A:MET:HE3	1:104:A:TRP:HB2	10	0.68	0.06	0.7
(1,1632)	1:110:A:MET:HE2	1:104:A:TRP:HB2	10	0.68	0.06	0.7
(1,1632)	1:110:A:MET:HE1	1:104:A:TRP:HB2	10	0.68	0.06	0.7
(1,4467)	1:79:A:LEU:HD12	1:89:A:ILE:HA	10	0.68	0.05	0.68
(1,4467)	1:79:A:LEU:HD13	1:89:A:ILE:HA	10	0.68	0.05	0.68
(1,4467)	1:79:A:LEU:HD11	1:89:A:ILE:HA	10	0.68	0.05	0.68
(1,4646)	1:79:A:LEU:HD12	1:89:A:ILE:HA	10	0.68	0.05	0.68
(1,4646)	1:79:A:LEU:HD13	1:89:A:ILE:HA	10	0.68	0.05	0.68
(1,4646)	1:79:A:LEU:HD11	1:89:A:ILE:HA	10	0.68	0.05	0.68
(1,6399)	1:110:A:MET:HE3	1:104:A:TRP:HB2	10	0.68	0.06	0.7
(1,6399)	1:110:A:MET:HE2	1:104:A:TRP:HB2	10	0.68	0.06	0.7
(1,6399)	1:110:A:MET:HE1	1:104:A:TRP:HB2	10	0.68	0.06	0.7
(1,1081)	1:78:A:THR:HG21	1:79:A:LEU:HD13	10	0.67	0.01	0.68
(1,1081)	1:78:A:THR:HG21	1:79:A:LEU:HD11	10	0.67	0.01	0.68
(1,1081)	1:78:A:THR:HG22	1:79:A:LEU:HD12	10	0.67	0.01	0.68
(1,1081)	1:78:A:THR:HG23	1:79:A:LEU:HD13	10	0.67	0.01	0.68
(1,1081)	1:78:A:THR:HG23	1:79:A:LEU:HD12	10	0.67	0.01	0.68
(1,1081)	1:78:A:THR:HG21	1:79:A:LEU:HD12	10	0.67	0.01	0.68
(1,5848)	1:78:A:THR:HG21	1:79:A:LEU:HD13	10	0.67	0.01	0.68
(1,5848)	1:78:A:THR:HG21	1:79:A:LEU:HD11	10	0.67	0.01	0.68
(1,5848)	1:78:A:THR:HG22	1:79:A:LEU:HD12	10	0.67	0.01	0.68
(1,5848)	1:78:A:THR:HG23	1:79:A:LEU:HD13	10	0.67	0.01	0.68
(1,5848)	1:78:A:THR:HG23	1:79:A:LEU:HD12	10	0.67	0.01	0.68
(1,5848)	1:78:A:THR:HG21	1:79:A:LEU:HD12	10	0.67	0.01	0.68
(1,4558)	1:73:A:ALA:H	1:68:A:ASN:H	10	0.67	0.04	0.68
(1,4737)	1:73:A:ALA:H	1:68:A:ASN:H	10	0.67	0.04	0.68
(1,486)	1:49:A:ILE:HG13	1:49:A:ILE:HG21	10	0.67	0.02	0.67
(1,486)	1:49:A:ILE:HG13	1:49:A:ILE:HG23	10	0.67	0.02	0.67
(1,486)	1:49:A:ILE:HG13	1:49:A:ILE:HG22	10	0.67	0.02	0.67
(1,5253)	1:49:A:ILE:HG13	1:49:A:ILE:HG21	10	0.67	0.02	0.67
(1,5253)	1:49:A:ILE:HG13	1:49:A:ILE:HG23	10	0.67	0.02	0.67
(1,5253)	1:49:A:ILE:HG13	1:49:A:ILE:HG22	10	0.67	0.02	0.67
(1,1125)	1:80:A:LYS:HB3	1:133:A:ILE:HG22	10	0.66	0.01	0.66

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1125)	1:80:A:LYS:HB3	1:133:A:ILE:HG23	10	0.66	0.01	0.66
(1,1125)	1:80:A:LYS:HB3	1:133:A:ILE:HG21	10	0.66	0.01	0.66
(1,5892)	1:80:A:LYS:HB3	1:133:A:ILE:HG22	10	0.66	0.01	0.66
(1,5892)	1:80:A:LYS:HB3	1:133:A:ILE:HG23	10	0.66	0.01	0.66
(1,5892)	1:80:A:LYS:HB3	1:133:A:ILE:HG21	10	0.66	0.01	0.66
(1,2605)	1:74:A:PHE:HD1	1:75:A:ILE:HA	10	0.66	0.04	0.66
(1,7372)	1:74:A:PHE:HD1	1:75:A:ILE:HA	10	0.66	0.04	0.66
(1,1851)	1:127:A:THR:HG23	1:125:A:VAL:HA	10	0.66	0.07	0.66
(1,1851)	1:127:A:THR:HG21	1:125:A:VAL:HA	10	0.66	0.07	0.66
(1,1851)	1:127:A:THR:HG22	1:125:A:VAL:HA	10	0.66	0.07	0.66
(1,6618)	1:127:A:THR:HG23	1:125:A:VAL:HA	10	0.66	0.07	0.66
(1,6618)	1:127:A:THR:HG21	1:125:A:VAL:HA	10	0.66	0.07	0.66
(1,6618)	1:127:A:THR:HG22	1:125:A:VAL:HA	10	0.66	0.07	0.66
(1,1022)	1:76:A:LEU:HD23	1:76:A:LEU:HA	10	0.65	0.02	0.65
(1,1022)	1:76:A:LEU:HD21	1:76:A:LEU:HA	10	0.65	0.02	0.65
(1,5789)	1:76:A:LEU:HD23	1:76:A:LEU:HA	10	0.65	0.02	0.65
(1,5789)	1:76:A:LEU:HD21	1:76:A:LEU:HA	10	0.65	0.02	0.65
(1,2596)	1:67:A:HIS:HD2	1:66:A:ILE:HG22	10	0.65	0.07	0.66
(1,2596)	1:67:A:HIS:HD2	1:66:A:ILE:HG23	10	0.65	0.07	0.66
(1,2596)	1:67:A:HIS:HD2	1:66:A:ILE:HG21	10	0.65	0.07	0.66
(1,7363)	1:67:A:HIS:HD2	1:66:A:ILE:HG22	10	0.65	0.07	0.66
(1,7363)	1:67:A:HIS:HD2	1:66:A:ILE:HG23	10	0.65	0.07	0.66
(1,7363)	1:67:A:HIS:HD2	1:66:A:ILE:HG21	10	0.65	0.07	0.66
(1,111)	1:30:A:ILE:HG23	1:37:A:TYR:HB3	10	0.65	0.02	0.65
(1,111)	1:30:A:ILE:HG22	1:37:A:TYR:HB3	10	0.65	0.02	0.65
(1,111)	1:30:A:ILE:HG21	1:37:A:TYR:HB3	10	0.65	0.02	0.65
(1,4878)	1:30:A:ILE:HG23	1:37:A:TYR:HB3	10	0.65	0.02	0.65
(1,4878)	1:30:A:ILE:HG22	1:37:A:TYR:HB3	10	0.65	0.02	0.65
(1,4878)	1:30:A:ILE:HG21	1:37:A:TYR:HB3	10	0.65	0.02	0.65
(1,1397)	1:91:A:LEU:HD12	1:138:A:TRP:HZ3	10	0.64	0.06	0.67
(1,1397)	1:91:A:LEU:HD11	1:138:A:TRP:HZ3	10	0.64	0.06	0.67
(1,1397)	1:91:A:LEU:HD13	1:138:A:TRP:HZ3	10	0.64	0.06	0.67
(1,6164)	1:91:A:LEU:HD12	1:138:A:TRP:HZ3	10	0.64	0.06	0.67
(1,6164)	1:91:A:LEU:HD11	1:138:A:TRP:HZ3	10	0.64	0.06	0.67
(1,6164)	1:91:A:LEU:HD13	1:138:A:TRP:HZ3	10	0.64	0.06	0.67
(1,1525)	1:101:A:SER:H	1:100:A:ALA:HB2	10	0.64	0.08	0.67
(1,1525)	1:101:A:SER:H	1:100:A:ALA:HB1	10	0.64	0.08	0.67
(1,1525)	1:101:A:SER:H	1:100:A:ALA:HB3	10	0.64	0.08	0.67
(1,6292)	1:101:A:SER:H	1:100:A:ALA:HB2	10	0.64	0.08	0.67
(1,6292)	1:101:A:SER:H	1:100:A:ALA:HB1	10	0.64	0.08	0.67
(1,6292)	1:101:A:SER:H	1:100:A:ALA:HB3	10	0.64	0.08	0.67
(1,2102)	1:127:A:THR:HG22	1:139:A:LYS:HB2	10	0.63	0.16	0.66

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2102)	1:127:A:THR:HG23	1:139:A:LYS:HB2	10	0.63	0.16	0.66
(1,2102)	1:127:A:THR:HG21	1:139:A:LYS:HB2	10	0.63	0.16	0.66
(1,6869)	1:127:A:THR:HG22	1:139:A:LYS:HB2	10	0.63	0.16	0.66
(1,6869)	1:127:A:THR:HG23	1:139:A:LYS:HB2	10	0.63	0.16	0.66
(1,6869)	1:127:A:THR:HG21	1:139:A:LYS:HB2	10	0.63	0.16	0.66
(1,4443)	1:64:A:ILE:HG23	1:75:A:ILE:HG21	10	0.63	0.05	0.64
(1,4443)	1:64:A:ILE:HG21	1:75:A:ILE:HG23	10	0.63	0.05	0.64
(1,4443)	1:64:A:ILE:HG22	1:75:A:ILE:HG23	10	0.63	0.05	0.64
(1,4443)	1:64:A:ILE:HG21	1:75:A:ILE:HG22	10	0.63	0.05	0.64
(1,4443)	1:64:A:ILE:HG21	1:75:A:ILE:HG21	10	0.63	0.05	0.64
(1,4443)	1:64:A:ILE:HG23	1:75:A:ILE:HG22	10	0.63	0.05	0.64
(1,4443)	1:64:A:ILE:HG22	1:75:A:ILE:HG21	10	0.63	0.05	0.64
(1,4443)	1:64:A:ILE:HG22	1:75:A:ILE:HG22	10	0.63	0.05	0.64
(1,4515)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	10	0.63	0.03	0.64
(1,4622)	1:64:A:ILE:HG23	1:75:A:ILE:HG21	10	0.63	0.05	0.64
(1,4622)	1:64:A:ILE:HG21	1:75:A:ILE:HG23	10	0.63	0.05	0.64
(1,4622)	1:64:A:ILE:HG22	1:75:A:ILE:HG23	10	0.63	0.05	0.64
(1,4622)	1:64:A:ILE:HG21	1:75:A:ILE:HG22	10	0.63	0.05	0.64
(1,4622)	1:64:A:ILE:HG21	1:75:A:ILE:HG21	10	0.63	0.05	0.64
(1,4622)	1:64:A:ILE:HG23	1:75:A:ILE:HG22	10	0.63	0.05	0.64
(1,4622)	1:64:A:ILE:HG22	1:75:A:ILE:HG21	10	0.63	0.05	0.64
(1,4622)	1:64:A:ILE:HG22	1:75:A:ILE:HG22	10	0.63	0.05	0.64
(1,4694)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	10	0.63	0.03	0.64
(1,99)	1:30:A:ILE:HG21	1:78:A:THR:H	10	0.61	0.02	0.61
(1,99)	1:30:A:ILE:HG23	1:78:A:THR:H	10	0.61	0.02	0.61
(1,99)	1:30:A:ILE:HG22	1:78:A:THR:H	10	0.61	0.02	0.61
(1,4866)	1:30:A:ILE:HG21	1:78:A:THR:H	10	0.61	0.02	0.61
(1,4866)	1:30:A:ILE:HG23	1:78:A:THR:H	10	0.61	0.02	0.61
(1,4866)	1:30:A:ILE:HG22	1:78:A:THR:H	10	0.61	0.02	0.61
(1,3466)	1:72:A:ASN:H	1:73:A:ALA:HB1	10	0.61	0.05	0.61
(1,3466)	1:72:A:ASN:H	1:73:A:ALA:HB2	10	0.61	0.05	0.61
(1,3466)	1:72:A:ASN:H	1:73:A:ALA:HB3	10	0.61	0.05	0.61
(1,8233)	1:72:A:ASN:H	1:73:A:ALA:HB1	10	0.61	0.05	0.61
(1,8233)	1:72:A:ASN:H	1:73:A:ALA:HB2	10	0.61	0.05	0.61
(1,8233)	1:72:A:ASN:H	1:73:A:ALA:HB3	10	0.61	0.05	0.61
(1,1017)	1:76:A:LEU:HD22	1:133:A:ILE:H	10	0.61	0.02	0.62
(1,1017)	1:76:A:LEU:HD23	1:133:A:ILE:H	10	0.61	0.02	0.62
(1,4317)	1:153:A:CYS:H	1:75:A:ILE:HG22	10	0.61	0.04	0.62
(1,4317)	1:153:A:CYS:H	1:75:A:ILE:HG21	10	0.61	0.04	0.62
(1,4317)	1:153:A:CYS:H	1:75:A:ILE:HG23	10	0.61	0.04	0.62
(1,5784)	1:76:A:LEU:HD22	1:133:A:ILE:H	10	0.61	0.02	0.62
(1,5784)	1:76:A:LEU:HD23	1:133:A:ILE:H	10	0.61	0.02	0.62

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,9084)	1:153:A:CYS:H	1:75:A:ILE:HG22	10	0.61	0.04	0.62
(1,9084)	1:153:A:CYS:H	1:75:A:ILE:HG21	10	0.61	0.04	0.62
(1,9084)	1:153:A:CYS:H	1:75:A:ILE:HG23	10	0.61	0.04	0.62
(1,3370)	1:63:A:MET:H	1:151:A:THR:HG23	10	0.61	0.05	0.62
(1,3370)	1:63:A:MET:H	1:151:A:THR:HG21	10	0.61	0.05	0.62
(1,3370)	1:63:A:MET:H	1:151:A:THR:HG22	10	0.61	0.05	0.62
(1,8137)	1:63:A:MET:H	1:151:A:THR:HG23	10	0.61	0.05	0.62
(1,8137)	1:63:A:MET:H	1:151:A:THR:HG21	10	0.61	0.05	0.62
(1,8137)	1:63:A:MET:H	1:151:A:THR:HG22	10	0.61	0.05	0.62
(1,1953)	1:131:A:LEU:HD22	1:138:A:TRP:HA	10	0.6	0.1	0.6
(1,1953)	1:131:A:LEU:HD23	1:138:A:TRP:HA	10	0.6	0.1	0.6
(1,1953)	1:131:A:LEU:HD21	1:138:A:TRP:HA	10	0.6	0.1	0.6
(1,6720)	1:131:A:LEU:HD22	1:138:A:TRP:HA	10	0.6	0.1	0.6
(1,6720)	1:131:A:LEU:HD23	1:138:A:TRP:HA	10	0.6	0.1	0.6
(1,6720)	1:131:A:LEU:HD21	1:138:A:TRP:HA	10	0.6	0.1	0.6
(1,1182)	1:79:A:LEU:HD21	1:83:A:TRP:HB2	10	0.59	0.02	0.59
(1,1182)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	10	0.59	0.02	0.59
(1,1182)	1:79:A:LEU:HD22	1:83:A:TRP:HB2	10	0.59	0.02	0.59
(1,5949)	1:79:A:LEU:HD21	1:83:A:TRP:HB2	10	0.59	0.02	0.59
(1,5949)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	10	0.59	0.02	0.59
(1,5949)	1:79:A:LEU:HD22	1:83:A:TRP:HB2	10	0.59	0.02	0.59
(1,3554)	1:77:A:ASP:H	1:76:A:LEU:HD11	10	0.59	0.02	0.58
(1,3554)	1:77:A:ASP:H	1:76:A:LEU:HD13	10	0.59	0.02	0.58
(1,3554)	1:77:A:ASP:H	1:76:A:LEU:HD12	10	0.59	0.02	0.58
(1,8321)	1:77:A:ASP:H	1:76:A:LEU:HD11	10	0.59	0.02	0.58
(1,8321)	1:77:A:ASP:H	1:76:A:LEU:HD13	10	0.59	0.02	0.58
(1,8321)	1:77:A:ASP:H	1:76:A:LEU:HD12	10	0.59	0.02	0.58
(1,1324)	1:90:A:LEU:HD13	1:148:A:VAL:H	10	0.59	0.04	0.6
(1,1324)	1:90:A:LEU:HD11	1:148:A:VAL:H	10	0.59	0.04	0.6
(1,1324)	1:90:A:LEU:HD12	1:148:A:VAL:H	10	0.59	0.04	0.6
(1,6091)	1:90:A:LEU:HD13	1:148:A:VAL:H	10	0.59	0.04	0.6
(1,6091)	1:90:A:LEU:HD11	1:148:A:VAL:H	10	0.59	0.04	0.6
(1,6091)	1:90:A:LEU:HD12	1:148:A:VAL:H	10	0.59	0.04	0.6
(1,1102)	1:79:A:LEU:HD23	1:75:A:ILE:H	10	0.59	0.04	0.6
(1,1102)	1:79:A:LEU:HD22	1:75:A:ILE:H	10	0.59	0.04	0.6
(1,1102)	1:79:A:LEU:HD21	1:75:A:ILE:H	10	0.59	0.04	0.6
(1,5869)	1:79:A:LEU:HD23	1:75:A:ILE:H	10	0.59	0.04	0.6
(1,5869)	1:79:A:LEU:HD22	1:75:A:ILE:H	10	0.59	0.04	0.6
(1,5869)	1:79:A:LEU:HD21	1:75:A:ILE:H	10	0.59	0.04	0.6
(1,1387)	1:91:A:LEU:HD12	1:104:A:TRP:HZ2	10	0.58	0.07	0.57
(1,1387)	1:91:A:LEU:HD11	1:104:A:TRP:HZ2	10	0.58	0.07	0.57
(1,1387)	1:91:A:LEU:HD13	1:104:A:TRP:HZ2	10	0.58	0.07	0.57

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6154)	1:91:A:LEU:HD12	1:104:A:TRP:HZ2	10	0.58	0.07	0.57
(1,6154)	1:91:A:LEU:HD11	1:104:A:TRP:HZ2	10	0.58	0.07	0.57
(1,6154)	1:91:A:LEU:HD13	1:104:A:TRP:HZ2	10	0.58	0.07	0.57
(1,4468)	1:79:A:LEU:HD12	1:152:A:LEU:H	10	0.58	0.05	0.58
(1,4468)	1:79:A:LEU:HD13	1:152:A:LEU:H	10	0.58	0.05	0.58
(1,4468)	1:79:A:LEU:HD11	1:152:A:LEU:H	10	0.58	0.05	0.58
(1,4468)	1:79:A:LEU:HD11	1:40:A:LEU:H	10	0.58	0.05	0.58
(1,4647)	1:79:A:LEU:HD12	1:152:A:LEU:H	10	0.58	0.05	0.58
(1,4647)	1:79:A:LEU:HD13	1:152:A:LEU:H	10	0.58	0.05	0.58
(1,4647)	1:79:A:LEU:HD11	1:152:A:LEU:H	10	0.58	0.05	0.58
(1,4647)	1:79:A:LEU:HD11	1:40:A:LEU:H	10	0.58	0.05	0.58
(1,1935)	1:131:A:LEU:HD21	1:130:A:PHE:HA	10	0.58	0.03	0.57
(1,1935)	1:131:A:LEU:HD22	1:130:A:PHE:HA	10	0.58	0.03	0.57
(1,1935)	1:131:A:LEU:HD23	1:130:A:PHE:HA	10	0.58	0.03	0.57
(1,6702)	1:131:A:LEU:HD21	1:130:A:PHE:HA	10	0.58	0.03	0.57
(1,6702)	1:131:A:LEU:HD22	1:130:A:PHE:HA	10	0.58	0.03	0.57
(1,6702)	1:131:A:LEU:HD23	1:130:A:PHE:HA	10	0.58	0.03	0.57
(1,78)	1:30:A:ILE:HD12	1:37:A:TYR:HA	10	0.58	0.02	0.57
(1,78)	1:30:A:ILE:HD11	1:37:A:TYR:HA	10	0.58	0.02	0.57
(1,78)	1:30:A:ILE:HD13	1:37:A:TYR:HA	10	0.58	0.02	0.57
(1,4845)	1:30:A:ILE:HD12	1:37:A:TYR:HA	10	0.58	0.02	0.57
(1,4845)	1:30:A:ILE:HD11	1:37:A:TYR:HA	10	0.58	0.02	0.57
(1,4845)	1:30:A:ILE:HD13	1:37:A:TYR:HA	10	0.58	0.02	0.57
(1,2317)	1:152:A:LEU:HD23	1:79:A:LEU:HA	10	0.58	0.06	0.58
(1,2317)	1:152:A:LEU:HD22	1:79:A:LEU:HA	10	0.58	0.06	0.58
(1,2317)	1:152:A:LEU:HD21	1:79:A:LEU:HA	10	0.58	0.06	0.58
(1,7084)	1:152:A:LEU:HD23	1:79:A:LEU:HA	10	0.58	0.06	0.58
(1,7084)	1:152:A:LEU:HD22	1:79:A:LEU:HA	10	0.58	0.06	0.58
(1,7084)	1:152:A:LEU:HD21	1:79:A:LEU:HA	10	0.58	0.06	0.58
(1,4541)	1:39:A:PHE:H	1:30:A:ILE:HB	10	0.57	0.05	0.59
(1,4720)	1:39:A:PHE:H	1:30:A:ILE:HB	10	0.57	0.05	0.59
(1,2008)	1:133:A:ILE:HG23	1:80:A:LYS:H	10	0.57	0.03	0.57
(1,2008)	1:133:A:ILE:HG21	1:80:A:LYS:H	10	0.57	0.03	0.57
(1,2008)	1:133:A:ILE:HG22	1:80:A:LYS:H	10	0.57	0.03	0.57
(1,6775)	1:133:A:ILE:HG23	1:80:A:LYS:H	10	0.57	0.03	0.57
(1,6775)	1:133:A:ILE:HG21	1:80:A:LYS:H	10	0.57	0.03	0.57
(1,6775)	1:133:A:ILE:HG22	1:80:A:LYS:H	10	0.57	0.03	0.57
(1,664)	1:52:A:VAL:HG21	1:63:A:MET:HB3	10	0.57	0.02	0.58
(1,664)	1:52:A:VAL:HG22	1:63:A:MET:HB3	10	0.57	0.02	0.58
(1,664)	1:52:A:VAL:HG23	1:63:A:MET:HB3	10	0.57	0.02	0.58
(1,5431)	1:52:A:VAL:HG21	1:63:A:MET:HB3	10	0.57	0.02	0.58
(1,5431)	1:52:A:VAL:HG22	1:63:A:MET:HB3	10	0.57	0.02	0.58

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5431)	1:52:A:VAL:HG23	1:63:A:MET:HB3	10	0.57	0.02	0.58
(1,796)	1:66:A:ILE:HG22	1:67:A:HIS:HB2	10	0.57	0.08	0.57
(1,796)	1:66:A:ILE:HG23	1:67:A:HIS:HB2	10	0.57	0.08	0.57
(1,796)	1:66:A:ILE:HG21	1:67:A:HIS:HB2	10	0.57	0.08	0.57
(1,5563)	1:66:A:ILE:HG22	1:67:A:HIS:HB2	10	0.57	0.08	0.57
(1,5563)	1:66:A:ILE:HG23	1:67:A:HIS:HB2	10	0.57	0.08	0.57
(1,5563)	1:66:A:ILE:HG21	1:67:A:HIS:HB2	10	0.57	0.08	0.57
(1,2297)	1:152:A:LEU:HD13	1:154:A:LYS:HA	10	0.57	0.02	0.56
(1,2297)	1:152:A:LEU:HD11	1:154:A:LYS:HA	10	0.57	0.02	0.56
(1,2297)	1:152:A:LEU:HD12	1:154:A:LYS:HA	10	0.57	0.02	0.56
(1,7064)	1:152:A:LEU:HD13	1:154:A:LYS:HA	10	0.57	0.02	0.56
(1,7064)	1:152:A:LEU:HD11	1:154:A:LYS:HA	10	0.57	0.02	0.56
(1,7064)	1:152:A:LEU:HD12	1:154:A:LYS:HA	10	0.57	0.02	0.56
(1,729)	1:64:A:ILE:HG22	1:151:A:THR:HB	10	0.56	0.02	0.56
(1,729)	1:64:A:ILE:HG23	1:151:A:THR:HB	10	0.56	0.02	0.56
(1,729)	1:64:A:ILE:HG21	1:151:A:THR:HB	10	0.56	0.02	0.56
(1,5496)	1:64:A:ILE:HG22	1:151:A:THR:HB	10	0.56	0.02	0.56
(1,5496)	1:64:A:ILE:HG23	1:151:A:THR:HB	10	0.56	0.02	0.56
(1,5496)	1:64:A:ILE:HG21	1:151:A:THR:HB	10	0.56	0.02	0.56
(1,1885)	1:128:A:CYS:HB2	1:129:A:ALA:HB3	10	0.56	0.04	0.57
(1,1885)	1:128:A:CYS:HB2	1:129:A:ALA:HB2	10	0.56	0.04	0.57
(1,1885)	1:128:A:CYS:HB2	1:129:A:ALA:HB1	10	0.56	0.04	0.57
(1,4586)	1:152:A:LEU:H	1:150:A:GLY:HA2	10	0.56	0.02	0.57
(1,4586)	1:152:A:LEU:H	1:64:A:ILE:HA	10	0.56	0.02	0.57
(1,4765)	1:152:A:LEU:H	1:150:A:GLY:HA2	10	0.56	0.02	0.57
(1,4765)	1:152:A:LEU:H	1:64:A:ILE:HA	10	0.56	0.02	0.57
(1,6652)	1:128:A:CYS:HB2	1:129:A:ALA:HB3	10	0.56	0.04	0.57
(1,6652)	1:128:A:CYS:HB2	1:129:A:ALA:HB2	10	0.56	0.04	0.57
(1,6652)	1:128:A:CYS:HB2	1:129:A:ALA:HB1	10	0.56	0.04	0.57
(1,954)	1:75:A:ILE:HD12	1:75:A:ILE:HB	10	0.56	0.01	0.56
(1,954)	1:75:A:ILE:HD13	1:75:A:ILE:HB	10	0.56	0.01	0.56
(1,5721)	1:75:A:ILE:HD12	1:75:A:ILE:HB	10	0.56	0.01	0.56
(1,5721)	1:75:A:ILE:HD13	1:75:A:ILE:HB	10	0.56	0.01	0.56
(1,4464)	1:78:A:THR:HB	1:82:A:GLN:HB3	10	0.56	0.26	0.58
(1,4464)	1:78:A:THR:HB	1:81:A:LYS:HB2	10	0.56	0.26	0.58
(1,4643)	1:78:A:THR:HB	1:82:A:GLN:HB3	10	0.56	0.26	0.58
(1,4643)	1:78:A:THR:HB	1:81:A:LYS:HB2	10	0.56	0.26	0.58
(1,262)	1:38:A:ILE:HG21	1:40:A:LEU:HD21	10	0.55	0.03	0.55
(1,262)	1:38:A:ILE:HG22	1:40:A:LEU:HD21	10	0.55	0.03	0.55
(1,262)	1:38:A:ILE:HG21	1:40:A:LEU:HD22	10	0.55	0.03	0.55
(1,262)	1:38:A:ILE:HG23	1:40:A:LEU:HD23	10	0.55	0.03	0.55
(1,262)	1:38:A:ILE:HG21	1:40:A:LEU:HD23	10	0.55	0.03	0.55

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,262)	1:38:A:ILE:HG22	1:40:A:LEU:HD23	10	0.55	0.03	0.55
(1,5029)	1:38:A:ILE:HG21	1:40:A:LEU:HD21	10	0.55	0.03	0.55
(1,5029)	1:38:A:ILE:HG22	1:40:A:LEU:HD21	10	0.55	0.03	0.55
(1,5029)	1:38:A:ILE:HG21	1:40:A:LEU:HD22	10	0.55	0.03	0.55
(1,5029)	1:38:A:ILE:HG23	1:40:A:LEU:HD23	10	0.55	0.03	0.55
(1,5029)	1:38:A:ILE:HG21	1:40:A:LEU:HD23	10	0.55	0.03	0.55
(1,5029)	1:38:A:ILE:HG22	1:40:A:LEU:HD23	10	0.55	0.03	0.55
(1,380)	1:44:A:ILE:HG21	1:44:A:ILE:HG23	10	0.55	0.0	0.55
(1,380)	1:44:A:ILE:HG22	1:44:A:ILE:HG21	10	0.55	0.0	0.55
(1,380)	1:44:A:ILE:HG22	1:44:A:ILE:HG23	10	0.55	0.0	0.55
(1,5147)	1:44:A:ILE:HG21	1:44:A:ILE:HG23	10	0.55	0.0	0.55
(1,5147)	1:44:A:ILE:HG22	1:44:A:ILE:HG21	10	0.55	0.0	0.55
(1,5147)	1:44:A:ILE:HG22	1:44:A:ILE:HG23	10	0.55	0.0	0.55
(1,1951)	1:136:A:GLY:H	1:131:A:LEU:HD23	10	0.54	0.04	0.56
(1,1951)	1:136:A:GLY:H	1:131:A:LEU:HD21	10	0.54	0.04	0.56
(1,1951)	1:136:A:GLY:H	1:131:A:LEU:HD22	10	0.54	0.04	0.56
(1,6718)	1:136:A:GLY:H	1:131:A:LEU:HD23	10	0.54	0.04	0.56
(1,6718)	1:136:A:GLY:H	1:131:A:LEU:HD21	10	0.54	0.04	0.56
(1,6718)	1:136:A:GLY:H	1:131:A:LEU:HD22	10	0.54	0.04	0.56
(1,1345)	1:90:A:LEU:HB2	1:90:A:LEU:HD23	10	0.54	0.02	0.54
(1,1345)	1:90:A:LEU:HB2	1:90:A:LEU:HD22	10	0.54	0.02	0.54
(1,1345)	1:90:A:LEU:HB2	1:90:A:LEU:HD21	10	0.54	0.02	0.54
(1,6112)	1:90:A:LEU:HB2	1:90:A:LEU:HD23	10	0.54	0.02	0.54
(1,6112)	1:90:A:LEU:HB2	1:90:A:LEU:HD22	10	0.54	0.02	0.54
(1,6112)	1:90:A:LEU:HB2	1:90:A:LEU:HD21	10	0.54	0.02	0.54
(1,1412)	1:91:A:LEU:HD22	1:114:A:LYS:H	10	0.54	0.04	0.55
(1,1412)	1:91:A:LEU:HD23	1:114:A:LYS:H	10	0.54	0.04	0.55
(1,1412)	1:91:A:LEU:HD21	1:114:A:LYS:H	10	0.54	0.04	0.55
(1,6179)	1:91:A:LEU:HD22	1:114:A:LYS:H	10	0.54	0.04	0.55
(1,6179)	1:91:A:LEU:HD23	1:114:A:LYS:H	10	0.54	0.04	0.55
(1,6179)	1:91:A:LEU:HD21	1:114:A:LYS:H	10	0.54	0.04	0.55
(1,1934)	1:131:A:LEU:HD21	1:132:A:HIS:HA	10	0.54	0.06	0.52
(1,1934)	1:131:A:LEU:HD22	1:132:A:HIS:HA	10	0.54	0.06	0.52
(1,1934)	1:131:A:LEU:HD23	1:132:A:HIS:HA	10	0.54	0.06	0.52
(1,6701)	1:131:A:LEU:HD21	1:132:A:HIS:HA	10	0.54	0.06	0.52
(1,6701)	1:131:A:LEU:HD22	1:132:A:HIS:HA	10	0.54	0.06	0.52
(1,6701)	1:131:A:LEU:HD23	1:132:A:HIS:HA	10	0.54	0.06	0.52
(1,3630)	1:83:A:TRP:HE1	1:78:A:THR:HG21	10	0.54	0.06	0.57
(1,3630)	1:83:A:TRP:HE1	1:78:A:THR:HG22	10	0.54	0.06	0.57
(1,3630)	1:83:A:TRP:HE1	1:78:A:THR:HG23	10	0.54	0.06	0.57
(1,8397)	1:83:A:TRP:HE1	1:78:A:THR:HG21	10	0.54	0.06	0.57
(1,8397)	1:83:A:TRP:HE1	1:78:A:THR:HG22	10	0.54	0.06	0.57

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,8397)	1:83:A:TRP:HE1	1:78:A:THR:HG23	10	0.54	0.06	0.57
(1,4512)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	10	0.54	0.05	0.56
(1,4512)	1:61:A:ALA:HB2	1:29:A:TRP:HZ2	10	0.54	0.05	0.56
(1,4512)	1:61:A:ALA:HB3	1:29:A:TRP:HZ2	10	0.54	0.05	0.56
(1,4691)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	10	0.54	0.05	0.56
(1,4691)	1:61:A:ALA:HB2	1:29:A:TRP:HZ2	10	0.54	0.05	0.56
(1,4691)	1:61:A:ALA:HB3	1:29:A:TRP:HZ2	10	0.54	0.05	0.56
(1,3506)	1:73:A:ALA:H	1:66:A:ILE:HG21	10	0.54	0.11	0.57
(1,3506)	1:73:A:ALA:H	1:66:A:ILE:HG22	10	0.54	0.11	0.57
(1,3506)	1:73:A:ALA:H	1:66:A:ILE:HG23	10	0.54	0.11	0.57
(1,8273)	1:73:A:ALA:H	1:66:A:ILE:HG21	10	0.54	0.11	0.57
(1,8273)	1:73:A:ALA:H	1:66:A:ILE:HG22	10	0.54	0.11	0.57
(1,8273)	1:73:A:ALA:H	1:66:A:ILE:HG23	10	0.54	0.11	0.57
(1,4573)	1:106:A:ASP:H	1:93:A:MET:HB2	10	0.53	0.1	0.48
(1,4752)	1:106:A:ASP:H	1:93:A:MET:HB2	10	0.53	0.1	0.48
(1,351)	1:40:A:LEU:HD11	1:42:A:GLU:HG2	10	0.53	0.11	0.55
(1,351)	1:40:A:LEU:HD13	1:42:A:GLU:HG2	10	0.53	0.11	0.55
(1,351)	1:40:A:LEU:HD12	1:42:A:GLU:HG2	10	0.53	0.11	0.55
(1,4556)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	10	0.53	0.06	0.55
(1,4735)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	10	0.53	0.06	0.55
(1,5118)	1:40:A:LEU:HD11	1:42:A:GLU:HG2	10	0.53	0.11	0.55
(1,5118)	1:40:A:LEU:HD13	1:42:A:GLU:HG2	10	0.53	0.11	0.55
(1,5118)	1:40:A:LEU:HD12	1:42:A:GLU:HG2	10	0.53	0.11	0.55
(1,2538)	1:32:A:PHE:H	1:32:A:PHE:HD1	10	0.53	0.13	0.54
(1,7305)	1:32:A:PHE:H	1:32:A:PHE:HD1	10	0.53	0.13	0.54
(1,4413)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	10	0.53	0.07	0.52
(1,4592)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	10	0.53	0.07	0.52
(1,947)	1:75:A:ILE:HA	1:76:A:LEU:HD11	10	0.52	0.01	0.52
(1,947)	1:75:A:ILE:HA	1:76:A:LEU:HD13	10	0.52	0.01	0.52
(1,947)	1:75:A:ILE:HA	1:76:A:LEU:HD12	10	0.52	0.01	0.52
(1,5714)	1:75:A:ILE:HA	1:76:A:LEU:HD11	10	0.52	0.01	0.52
(1,5714)	1:75:A:ILE:HA	1:76:A:LEU:HD13	10	0.52	0.01	0.52
(1,5714)	1:75:A:ILE:HA	1:76:A:LEU:HD12	10	0.52	0.01	0.52
(1,60)	1:28:A:THR:HG22	1:28:A:THR:HG23	10	0.52	0.0	0.52
(1,60)	1:28:A:THR:HG21	1:28:A:THR:HG22	10	0.52	0.0	0.52
(1,60)	1:28:A:THR:HG21	1:28:A:THR:HG23	10	0.52	0.0	0.52
(1,4827)	1:28:A:THR:HG22	1:28:A:THR:HG23	10	0.52	0.0	0.52
(1,4827)	1:28:A:THR:HG21	1:28:A:THR:HG22	10	0.52	0.0	0.52
(1,4827)	1:28:A:THR:HG21	1:28:A:THR:HG23	10	0.52	0.0	0.52
(1,921)	1:73:A:ALA:HB2	1:114:A:LYS:HE3	10	0.52	0.08	0.48
(1,921)	1:73:A:ALA:HB3	1:114:A:LYS:HE3	10	0.52	0.08	0.48
(1,921)	1:73:A:ALA:HB1	1:114:A:LYS:HE3	10	0.52	0.08	0.48

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5688)	1:73:A:ALA:HB2	1:114:A:LYS:HE3	10	0.52	0.08	0.48
(1,5688)	1:73:A:ALA:HB3	1:114:A:LYS:HE3	10	0.52	0.08	0.48
(1,5688)	1:73:A:ALA:HB1	1:114:A:LYS:HE3	10	0.52	0.08	0.48
(1,4447)	1:66:A:ILE:HG22	1:113:A:ASP:H	10	0.52	0.15	0.52
(1,4447)	1:66:A:ILE:HG23	1:113:A:ASP:H	10	0.52	0.15	0.52
(1,4447)	1:66:A:ILE:HG21	1:113:A:ASP:H	10	0.52	0.15	0.52
(1,4626)	1:66:A:ILE:HG22	1:113:A:ASP:H	10	0.52	0.15	0.52
(1,4626)	1:66:A:ILE:HG23	1:113:A:ASP:H	10	0.52	0.15	0.52
(1,4626)	1:66:A:ILE:HG21	1:113:A:ASP:H	10	0.52	0.15	0.52
(1,672)	1:63:A:MET:HE1	1:90:A:LEU:HB2	10	0.52	0.04	0.52
(1,672)	1:63:A:MET:HE2	1:90:A:LEU:HB2	10	0.52	0.04	0.52
(1,672)	1:63:A:MET:HE3	1:90:A:LEU:HB2	10	0.52	0.04	0.52
(1,5439)	1:63:A:MET:HE1	1:90:A:LEU:HB2	10	0.52	0.04	0.52
(1,5439)	1:63:A:MET:HE2	1:90:A:LEU:HB2	10	0.52	0.04	0.52
(1,5439)	1:63:A:MET:HE3	1:90:A:LEU:HB2	10	0.52	0.04	0.52
(1,3063)	1:37:A:TYR:H	1:30:A:ILE:HD12	10	0.52	0.03	0.52
(1,3063)	1:37:A:TYR:H	1:30:A:ILE:HD11	10	0.52	0.03	0.52
(1,3063)	1:37:A:TYR:H	1:30:A:ILE:HD13	10	0.52	0.03	0.52
(1,7830)	1:37:A:TYR:H	1:30:A:ILE:HD12	10	0.52	0.03	0.52
(1,7830)	1:37:A:TYR:H	1:30:A:ILE:HD11	10	0.52	0.03	0.52
(1,7830)	1:37:A:TYR:H	1:30:A:ILE:HD13	10	0.52	0.03	0.52
(1,2305)	1:152:A:LEU:HB3	1:152:A:LEU:HD11	10	0.52	0.01	0.51
(1,2305)	1:152:A:LEU:HB3	1:152:A:LEU:HD12	10	0.52	0.01	0.51
(1,2305)	1:152:A:LEU:HB3	1:152:A:LEU:HD13	10	0.52	0.01	0.51
(1,7072)	1:152:A:LEU:HB3	1:152:A:LEU:HD11	10	0.52	0.01	0.51
(1,7072)	1:152:A:LEU:HB3	1:152:A:LEU:HD12	10	0.52	0.01	0.51
(1,7072)	1:152:A:LEU:HB3	1:152:A:LEU:HD13	10	0.52	0.01	0.51
(1,1381)	1:91:A:LEU:HD13	1:90:A:LEU:H	10	0.51	0.14	0.55
(1,1381)	1:91:A:LEU:HD12	1:90:A:LEU:H	10	0.51	0.14	0.55
(1,1381)	1:91:A:LEU:HD11	1:90:A:LEU:H	10	0.51	0.14	0.55
(1,6148)	1:91:A:LEU:HD13	1:90:A:LEU:H	10	0.51	0.14	0.55
(1,6148)	1:91:A:LEU:HD12	1:90:A:LEU:H	10	0.51	0.14	0.55
(1,6148)	1:91:A:LEU:HD11	1:90:A:LEU:H	10	0.51	0.14	0.55
(1,1740)	1:116:A:THR:HA	1:116:A:THR:HG23	10	0.51	0.01	0.51
(1,1740)	1:116:A:THR:HA	1:116:A:THR:HG22	10	0.51	0.01	0.51
(1,1740)	1:116:A:THR:HA	1:116:A:THR:HG21	10	0.51	0.01	0.51
(1,6507)	1:116:A:THR:HA	1:116:A:THR:HG23	10	0.51	0.01	0.51
(1,6507)	1:116:A:THR:HA	1:116:A:THR:HG22	10	0.51	0.01	0.51
(1,6507)	1:116:A:THR:HA	1:116:A:THR:HG21	10	0.51	0.01	0.51
(1,1914)	1:131:A:LEU:HD12	1:89:A:ILE:H	10	0.51	0.04	0.53
(1,1914)	1:131:A:LEU:HD13	1:89:A:ILE:H	10	0.51	0.04	0.53
(1,1914)	1:131:A:LEU:HD11	1:89:A:ILE:H	10	0.51	0.04	0.53

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6681)	1:131:A:LEU:HD12	1:89:A:ILE:H	10	0.51	0.04	0.53
(1,6681)	1:131:A:LEU:HD13	1:89:A:ILE:H	10	0.51	0.04	0.53
(1,6681)	1:131:A:LEU:HD11	1:89:A:ILE:H	10	0.51	0.04	0.53
(1,1843)	1:127:A:THR:HA	1:127:A:THR:HG23	10	0.5	0.02	0.5
(1,1843)	1:127:A:THR:HA	1:127:A:THR:HG22	10	0.5	0.02	0.5
(1,1843)	1:127:A:THR:HA	1:127:A:THR:HG21	10	0.5	0.02	0.5
(1,6610)	1:127:A:THR:HA	1:127:A:THR:HG23	10	0.5	0.02	0.5
(1,6610)	1:127:A:THR:HA	1:127:A:THR:HG22	10	0.5	0.02	0.5
(1,6610)	1:127:A:THR:HA	1:127:A:THR:HG21	10	0.5	0.02	0.5
(1,4415)	1:40:A:LEU:HD13	1:56:A:CYS:HB2	10	0.5	0.03	0.5
(1,4415)	1:40:A:LEU:HD12	1:56:A:CYS:HB2	10	0.5	0.03	0.5
(1,4415)	1:40:A:LEU:HD11	1:56:A:CYS:HB2	10	0.5	0.03	0.5
(1,4594)	1:40:A:LEU:HD13	1:56:A:CYS:HB2	10	0.5	0.03	0.5
(1,4594)	1:40:A:LEU:HD12	1:56:A:CYS:HB2	10	0.5	0.03	0.5
(1,4594)	1:40:A:LEU:HD11	1:56:A:CYS:HB2	10	0.5	0.03	0.5
(1,4456)	1:75:A:ILE:HD12	1:78:A:THR:H	10	0.5	0.04	0.49
(1,4456)	1:75:A:ILE:HD11	1:78:A:THR:H	10	0.5	0.04	0.49
(1,4456)	1:75:A:ILE:HD13	1:78:A:THR:H	10	0.5	0.04	0.49
(1,4635)	1:75:A:ILE:HD12	1:78:A:THR:H	10	0.5	0.04	0.49
(1,4635)	1:75:A:ILE:HD11	1:78:A:THR:H	10	0.5	0.04	0.49
(1,4635)	1:75:A:ILE:HD13	1:78:A:THR:H	10	0.5	0.04	0.49
(1,1984)	1:133:A:ILE:HD12	1:132:A:HIS:HA	10	0.5	0.01	0.5
(1,1984)	1:133:A:ILE:HD11	1:132:A:HIS:HA	10	0.5	0.01	0.5
(1,1984)	1:133:A:ILE:HD13	1:132:A:HIS:HA	10	0.5	0.01	0.5
(1,6751)	1:133:A:ILE:HD12	1:132:A:HIS:HA	10	0.5	0.01	0.5
(1,6751)	1:133:A:ILE:HD11	1:132:A:HIS:HA	10	0.5	0.01	0.5
(1,6751)	1:133:A:ILE:HD13	1:132:A:HIS:HA	10	0.5	0.01	0.5
(1,861)	1:70:A:GLU:HB2	1:73:A:ALA:HB1	10	0.49	0.06	0.5
(1,861)	1:70:A:GLU:HB2	1:73:A:ALA:HB2	10	0.49	0.06	0.5
(1,861)	1:70:A:GLU:HB2	1:73:A:ALA:HB3	10	0.49	0.06	0.5
(1,5628)	1:70:A:GLU:HB2	1:73:A:ALA:HB1	10	0.49	0.06	0.5
(1,5628)	1:70:A:GLU:HB2	1:73:A:ALA:HB2	10	0.49	0.06	0.5
(1,5628)	1:70:A:GLU:HB2	1:73:A:ALA:HB3	10	0.49	0.06	0.5
(1,1282)	1:89:A:ILE:HD11	1:89:A:ILE:HD13	10	0.49	0.01	0.49
(1,1282)	1:89:A:ILE:HD12	1:89:A:ILE:HD13	10	0.49	0.01	0.49
(1,1282)	1:89:A:ILE:HD12	1:89:A:ILE:HD11	10	0.49	0.01	0.49
(1,6049)	1:89:A:ILE:HD11	1:89:A:ILE:HD13	10	0.49	0.01	0.49
(1,6049)	1:89:A:ILE:HD12	1:89:A:ILE:HD13	10	0.49	0.01	0.49
(1,6049)	1:89:A:ILE:HD12	1:89:A:ILE:HD11	10	0.49	0.01	0.49
(1,1807)	1:124:A:LEU:HD11	1:124:A:LEU:HD13	10	0.49	0.0	0.49
(1,1807)	1:124:A:LEU:HD12	1:124:A:LEU:HD13	10	0.49	0.0	0.49
(1,1807)	1:124:A:LEU:HD12	1:124:A:LEU:HD11	10	0.49	0.0	0.49

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4555)	1:71:A:GLU:H	1:73:A:ALA:HB1	10	0.49	0.08	0.5
(1,4555)	1:71:A:GLU:H	1:73:A:ALA:HB2	10	0.49	0.08	0.5
(1,4555)	1:71:A:GLU:H	1:73:A:ALA:HB3	10	0.49	0.08	0.5
(1,4734)	1:71:A:GLU:H	1:73:A:ALA:HB1	10	0.49	0.08	0.5
(1,4734)	1:71:A:GLU:H	1:73:A:ALA:HB2	10	0.49	0.08	0.5
(1,4734)	1:71:A:GLU:H	1:73:A:ALA:HB3	10	0.49	0.08	0.5
(1,6574)	1:124:A:LEU:HD11	1:124:A:LEU:HD13	10	0.49	0.0	0.49
(1,6574)	1:124:A:LEU:HD12	1:124:A:LEU:HD13	10	0.49	0.0	0.49
(1,6574)	1:124:A:LEU:HD12	1:124:A:LEU:HD11	10	0.49	0.0	0.49
(1,436)	1:46:A:VAL:HG13	1:47:A:GLU:HG2	10	0.49	0.05	0.52
(1,436)	1:46:A:VAL:HG11	1:47:A:GLU:HG2	10	0.49	0.05	0.52
(1,436)	1:46:A:VAL:HG12	1:47:A:GLU:HG2	10	0.49	0.05	0.52
(1,5203)	1:46:A:VAL:HG13	1:47:A:GLU:HG2	10	0.49	0.05	0.52
(1,5203)	1:46:A:VAL:HG11	1:47:A:GLU:HG2	10	0.49	0.05	0.52
(1,5203)	1:46:A:VAL:HG12	1:47:A:GLU:HG2	10	0.49	0.05	0.52
(1,910)	1:72:A:ASN:HB2	1:73:A:ALA:HB2	10	0.49	0.05	0.48
(1,910)	1:72:A:ASN:HB2	1:73:A:ALA:HB3	10	0.49	0.05	0.48
(1,910)	1:72:A:ASN:HB2	1:73:A:ALA:HB1	10	0.49	0.05	0.48
(1,1798)	1:124:A:LEU:HB3	1:124:A:LEU:HD21	10	0.49	0.01	0.49
(1,1798)	1:124:A:LEU:HB3	1:124:A:LEU:HD23	10	0.49	0.01	0.49
(1,1798)	1:124:A:LEU:HB3	1:124:A:LEU:HD22	10	0.49	0.01	0.49
(1,5677)	1:72:A:ASN:HB2	1:73:A:ALA:HB2	10	0.49	0.05	0.48
(1,5677)	1:72:A:ASN:HB2	1:73:A:ALA:HB3	10	0.49	0.05	0.48
(1,5677)	1:72:A:ASN:HB2	1:73:A:ALA:HB1	10	0.49	0.05	0.48
(1,6565)	1:124:A:LEU:HB3	1:124:A:LEU:HD21	10	0.49	0.01	0.49
(1,6565)	1:124:A:LEU:HB3	1:124:A:LEU:HD23	10	0.49	0.01	0.49
(1,6565)	1:124:A:LEU:HB3	1:124:A:LEU:HD22	10	0.49	0.01	0.49
(1,81)	1:30:A:ILE:HD12	1:29:A:TRP:HA	10	0.49	0.05	0.48
(1,81)	1:30:A:ILE:HD11	1:29:A:TRP:HA	10	0.49	0.05	0.48
(1,81)	1:30:A:ILE:HD13	1:29:A:TRP:HA	10	0.49	0.05	0.48
(1,1832)	1:127:A:THR:H	1:125:A:VAL:HG12	10	0.49	0.03	0.49
(1,1832)	1:127:A:THR:H	1:125:A:VAL:HG13	10	0.49	0.03	0.49
(1,1832)	1:127:A:THR:H	1:125:A:VAL:HG11	10	0.49	0.03	0.49
(1,4848)	1:30:A:ILE:HD12	1:29:A:TRP:HA	10	0.49	0.05	0.48
(1,4848)	1:30:A:ILE:HD11	1:29:A:TRP:HA	10	0.49	0.05	0.48
(1,4848)	1:30:A:ILE:HD13	1:29:A:TRP:HA	10	0.49	0.05	0.48
(1,6599)	1:127:A:THR:H	1:125:A:VAL:HG12	10	0.49	0.03	0.49
(1,6599)	1:127:A:THR:H	1:125:A:VAL:HG13	10	0.49	0.03	0.49
(1,6599)	1:127:A:THR:H	1:125:A:VAL:HG11	10	0.49	0.03	0.49
(1,4547)	1:45:A:LYS:H	1:47:A:GLU:HG2	10	0.48	0.08	0.51
(1,4547)	1:45:A:LYS:H	1:47:A:GLU:HG3	10	0.48	0.08	0.51
(1,4726)	1:45:A:LYS:H	1:47:A:GLU:HG2	10	0.48	0.08	0.51

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4726)	1:45:A:LYS:H	1:47:A:GLU:HG3	10	0.48	0.08	0.51
(1,1504)	1:97:A:THR:HG21	1:97:A:THR:HG22	10	0.48	0.0	0.48
(1,1504)	1:97:A:THR:HG21	1:97:A:THR:HG23	10	0.48	0.0	0.48
(1,1504)	1:97:A:THR:HG22	1:97:A:THR:HG23	10	0.48	0.0	0.48
(1,6271)	1:97:A:THR:HG21	1:97:A:THR:HG22	10	0.48	0.0	0.48
(1,6271)	1:97:A:THR:HG21	1:97:A:THR:HG23	10	0.48	0.0	0.48
(1,6271)	1:97:A:THR:HG22	1:97:A:THR:HG23	10	0.48	0.0	0.48
(1,4560)	1:75:A:ILE:H	1:32:A:PHE:HE2	10	0.48	0.09	0.46
(1,4739)	1:75:A:ILE:H	1:32:A:PHE:HE2	10	0.48	0.09	0.46
(1,975)	1:75:A:ILE:HG23	1:78:A:THR:H	10	0.48	0.09	0.5
(1,975)	1:75:A:ILE:HG22	1:78:A:THR:H	10	0.48	0.09	0.5
(1,975)	1:75:A:ILE:HG21	1:78:A:THR:H	10	0.48	0.09	0.5
(1,4484)	1:125:A:VAL:HG11	1:142:A:ASN:HA	10	0.48	0.06	0.49
(1,4484)	1:125:A:VAL:HG12	1:142:A:ASN:HA	10	0.48	0.06	0.49
(1,4484)	1:125:A:VAL:HG13	1:142:A:ASN:HA	10	0.48	0.06	0.49
(1,4663)	1:125:A:VAL:HG11	1:142:A:ASN:HA	10	0.48	0.06	0.49
(1,4663)	1:125:A:VAL:HG12	1:142:A:ASN:HA	10	0.48	0.06	0.49
(1,4663)	1:125:A:VAL:HG13	1:142:A:ASN:HA	10	0.48	0.06	0.49
(1,5742)	1:75:A:ILE:HG23	1:78:A:THR:H	10	0.48	0.09	0.5
(1,5742)	1:75:A:ILE:HG22	1:78:A:THR:H	10	0.48	0.09	0.5
(1,5742)	1:75:A:ILE:HG21	1:78:A:THR:H	10	0.48	0.09	0.5
(1,4286)	1:149:A:GLU:H	1:43:A:ALA:HB1	10	0.48	0.06	0.48
(1,4286)	1:149:A:GLU:H	1:43:A:ALA:HB2	10	0.48	0.06	0.48
(1,4286)	1:149:A:GLU:H	1:43:A:ALA:HB3	10	0.48	0.06	0.48
(1,9053)	1:149:A:GLU:H	1:43:A:ALA:HB1	10	0.48	0.06	0.48
(1,9053)	1:149:A:GLU:H	1:43:A:ALA:HB2	10	0.48	0.06	0.48
(1,9053)	1:149:A:GLU:H	1:43:A:ALA:HB3	10	0.48	0.06	0.48
(1,358)	1:43:A:ALA:HB2	1:43:A:ALA:HB3	10	0.48	0.0	0.48
(1,358)	1:43:A:ALA:HB1	1:43:A:ALA:HB3	10	0.48	0.0	0.48
(1,358)	1:43:A:ALA:HB2	1:43:A:ALA:HB1	10	0.48	0.0	0.48
(1,5125)	1:43:A:ALA:HB2	1:43:A:ALA:HB3	10	0.48	0.0	0.48
(1,5125)	1:43:A:ALA:HB1	1:43:A:ALA:HB3	10	0.48	0.0	0.48
(1,5125)	1:43:A:ALA:HB2	1:43:A:ALA:HB1	10	0.48	0.0	0.48
(1,2943)	1:30:A:ILE:H	1:152:A:LEU:HD13	10	0.47	0.04	0.49
(1,2943)	1:30:A:ILE:H	1:152:A:LEU:HD11	10	0.47	0.04	0.49
(1,2943)	1:30:A:ILE:H	1:152:A:LEU:HD12	10	0.47	0.04	0.49
(1,7710)	1:30:A:ILE:H	1:152:A:LEU:HD13	10	0.47	0.04	0.49
(1,7710)	1:30:A:ILE:H	1:152:A:LEU:HD11	10	0.47	0.04	0.49
(1,7710)	1:30:A:ILE:H	1:152:A:LEU:HD12	10	0.47	0.04	0.49
(1,1309)	1:90:A:LEU:HA	1:90:A:LEU:HD13	10	0.47	0.02	0.48
(1,1309)	1:90:A:LEU:HA	1:90:A:LEU:HD11	10	0.47	0.02	0.48
(1,1309)	1:90:A:LEU:HA	1:90:A:LEU:HD12	10	0.47	0.02	0.48

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6076)	1:90:A:LEU:HA	1:90:A:LEU:HD13	10	0.47	0.02	0.48
(1,6076)	1:90:A:LEU:HA	1:90:A:LEU:HD11	10	0.47	0.02	0.48
(1,6076)	1:90:A:LEU:HA	1:90:A:LEU:HD12	10	0.47	0.02	0.48
(1,116)	1:30:A:ILE:HG21	1:82:A:GLN:H	10	0.47	0.05	0.46
(1,116)	1:30:A:ILE:HG23	1:82:A:GLN:H	10	0.47	0.05	0.46
(1,116)	1:30:A:ILE:HG22	1:82:A:GLN:H	10	0.47	0.05	0.46
(1,4883)	1:30:A:ILE:HG21	1:82:A:GLN:H	10	0.47	0.05	0.46
(1,4883)	1:30:A:ILE:HG23	1:82:A:GLN:H	10	0.47	0.05	0.46
(1,4883)	1:30:A:ILE:HG22	1:82:A:GLN:H	10	0.47	0.05	0.46
(1,1349)	1:90:A:LEU:HD21	1:130:A:PHE:HZ	10	0.47	0.05	0.48
(1,1349)	1:90:A:LEU:HD23	1:130:A:PHE:HZ	10	0.47	0.05	0.48
(1,1349)	1:90:A:LEU:HD22	1:130:A:PHE:HZ	10	0.47	0.05	0.48
(1,6116)	1:90:A:LEU:HD21	1:130:A:PHE:HZ	10	0.47	0.05	0.48
(1,6116)	1:90:A:LEU:HD23	1:130:A:PHE:HZ	10	0.47	0.05	0.48
(1,6116)	1:90:A:LEU:HD22	1:130:A:PHE:HZ	10	0.47	0.05	0.48
(1,1921)	1:131:A:LEU:HD11	1:131:A:LEU:HD13	10	0.46	0.01	0.46
(1,1921)	1:131:A:LEU:HD12	1:131:A:LEU:HD13	10	0.46	0.01	0.46
(1,6688)	1:131:A:LEU:HD11	1:131:A:LEU:HD13	10	0.46	0.01	0.46
(1,6688)	1:131:A:LEU:HD12	1:131:A:LEU:HD13	10	0.46	0.01	0.46
(1,494)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	10	0.46	0.01	0.46
(1,1497)	1:98:A:ASP:H	1:97:A:THR:HG21	10	0.46	0.04	0.47
(1,1497)	1:98:A:ASP:H	1:97:A:THR:HG23	10	0.46	0.04	0.47
(1,1497)	1:98:A:ASP:H	1:97:A:THR:HG22	10	0.46	0.04	0.47
(1,5261)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	10	0.46	0.01	0.46
(1,6264)	1:98:A:ASP:H	1:97:A:THR:HG21	10	0.46	0.04	0.47
(1,6264)	1:98:A:ASP:H	1:97:A:THR:HG23	10	0.46	0.04	0.47
(1,6264)	1:98:A:ASP:H	1:97:A:THR:HG22	10	0.46	0.04	0.47
(1,4513)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	10	0.46	0.62	0.27
(1,4692)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	10	0.46	0.62	0.27
(1,103)	1:30:A:ILE:HG13	1:30:A:ILE:HG21	10	0.46	0.01	0.46
(1,103)	1:30:A:ILE:HG13	1:30:A:ILE:HG23	10	0.46	0.01	0.46
(1,103)	1:30:A:ILE:HG13	1:30:A:ILE:HG22	10	0.46	0.01	0.46
(1,4870)	1:30:A:ILE:HG13	1:30:A:ILE:HG21	10	0.46	0.01	0.46
(1,4870)	1:30:A:ILE:HG13	1:30:A:ILE:HG23	10	0.46	0.01	0.46
(1,4870)	1:30:A:ILE:HG13	1:30:A:ILE:HG22	10	0.46	0.01	0.46
(1,2309)	1:152:A:LEU:HD22	1:75:A:ILE:HB	10	0.45	0.02	0.46
(1,2309)	1:152:A:LEU:HD21	1:75:A:ILE:HB	10	0.45	0.02	0.46
(1,2309)	1:152:A:LEU:HD23	1:75:A:ILE:HB	10	0.45	0.02	0.46
(1,7076)	1:152:A:LEU:HD22	1:75:A:ILE:HB	10	0.45	0.02	0.46
(1,7076)	1:152:A:LEU:HD21	1:75:A:ILE:HB	10	0.45	0.02	0.46
(1,7076)	1:152:A:LEU:HD23	1:75:A:ILE:HB	10	0.45	0.02	0.46
(1,2324)	1:152:A:LEU:HG	1:64:A:ILE:HG22	10	0.45	0.01	0.46

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2324)	1:152:A:LEU:HG	1:64:A:ILE:HG23	10	0.45	0.01	0.46
(1,2324)	1:152:A:LEU:HG	1:64:A:ILE:HG21	10	0.45	0.01	0.46
(1,7091)	1:152:A:LEU:HG	1:64:A:ILE:HG22	10	0.45	0.01	0.46
(1,7091)	1:152:A:LEU:HG	1:64:A:ILE:HG23	10	0.45	0.01	0.46
(1,7091)	1:152:A:LEU:HG	1:64:A:ILE:HG21	10	0.45	0.01	0.46
(1,4031)	1:126:A:ASP:H	1:124:A:LEU:HD21	10	0.45	0.03	0.44
(1,4031)	1:126:A:ASP:H	1:124:A:LEU:HD23	10	0.45	0.03	0.44
(1,4031)	1:126:A:ASP:H	1:124:A:LEU:HD22	10	0.45	0.03	0.44
(1,8798)	1:126:A:ASP:H	1:124:A:LEU:HD21	10	0.45	0.03	0.44
(1,8798)	1:126:A:ASP:H	1:124:A:LEU:HD23	10	0.45	0.03	0.44
(1,8798)	1:126:A:ASP:H	1:124:A:LEU:HD22	10	0.45	0.03	0.44
(1,955)	1:75:A:ILE:HD12	1:37:A:TYR:HB2	10	0.45	0.09	0.46
(1,955)	1:75:A:ILE:HD11	1:37:A:TYR:HB2	10	0.45	0.09	0.46
(1,955)	1:75:A:ILE:HD13	1:37:A:TYR:HB2	10	0.45	0.09	0.46
(1,5722)	1:75:A:ILE:HD12	1:37:A:TYR:HB2	10	0.45	0.09	0.46
(1,5722)	1:75:A:ILE:HD11	1:37:A:TYR:HB2	10	0.45	0.09	0.46
(1,5722)	1:75:A:ILE:HD13	1:37:A:TYR:HB2	10	0.45	0.09	0.46
(1,1080)	1:79:A:LEU:HD12	1:86:A:PRO:HB3	10	0.45	0.12	0.43
(1,1080)	1:79:A:LEU:HD13	1:86:A:PRO:HB3	10	0.45	0.12	0.43
(1,1080)	1:79:A:LEU:HD11	1:86:A:PRO:HB3	10	0.45	0.12	0.43
(1,5847)	1:79:A:LEU:HD12	1:86:A:PRO:HB3	10	0.45	0.12	0.43
(1,5847)	1:79:A:LEU:HD13	1:86:A:PRO:HB3	10	0.45	0.12	0.43
(1,5847)	1:79:A:LEU:HD11	1:86:A:PRO:HB3	10	0.45	0.12	0.43
(1,2314)	1:78:A:THR:HG22	1:152:A:LEU:HD23	10	0.45	0.08	0.44
(1,2314)	1:78:A:THR:HG22	1:152:A:LEU:HD22	10	0.45	0.08	0.44
(1,2314)	1:78:A:THR:HG22	1:152:A:LEU:HD21	10	0.45	0.08	0.44
(1,2314)	1:78:A:THR:HG21	1:152:A:LEU:HD23	10	0.45	0.08	0.44
(1,2314)	1:78:A:THR:HG23	1:152:A:LEU:HD21	10	0.45	0.08	0.44
(1,2314)	1:78:A:THR:HG21	1:152:A:LEU:HD21	10	0.45	0.08	0.44
(1,2314)	1:78:A:THR:HG23	1:152:A:LEU:HD22	10	0.45	0.08	0.44
(1,7081)	1:78:A:THR:HG22	1:152:A:LEU:HD23	10	0.45	0.08	0.44
(1,7081)	1:78:A:THR:HG22	1:152:A:LEU:HD22	10	0.45	0.08	0.44
(1,7081)	1:78:A:THR:HG22	1:152:A:LEU:HD21	10	0.45	0.08	0.44
(1,7081)	1:78:A:THR:HG21	1:152:A:LEU:HD23	10	0.45	0.08	0.44
(1,7081)	1:78:A:THR:HG23	1:152:A:LEU:HD21	10	0.45	0.08	0.44
(1,7081)	1:78:A:THR:HG21	1:152:A:LEU:HD21	10	0.45	0.08	0.44
(1,7081)	1:78:A:THR:HG23	1:152:A:LEU:HD22	10	0.45	0.08	0.44
(1,1085)	1:79:A:LEU:HB2	1:79:A:LEU:HD13	10	0.45	0.01	0.44
(1,1085)	1:79:A:LEU:HB2	1:79:A:LEU:HD11	10	0.45	0.01	0.44
(1,1085)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	10	0.45	0.01	0.44
(1,5852)	1:79:A:LEU:HB2	1:79:A:LEU:HD13	10	0.45	0.01	0.44
(1,5852)	1:79:A:LEU:HB2	1:79:A:LEU:HD11	10	0.45	0.01	0.44

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5852)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	10	0.45	0.01	0.44
(1,1083)	1:79:A:LEU:H	1:79:A:LEU:HD13	10	0.44	0.01	0.45
(1,1083)	1:79:A:LEU:H	1:79:A:LEU:HD11	10	0.44	0.01	0.45
(1,1083)	1:79:A:LEU:H	1:79:A:LEU:HD12	10	0.44	0.01	0.45
(1,5850)	1:79:A:LEU:H	1:79:A:LEU:HD13	10	0.44	0.01	0.45
(1,5850)	1:79:A:LEU:H	1:79:A:LEU:HD11	10	0.44	0.01	0.45
(1,5850)	1:79:A:LEU:H	1:79:A:LEU:HD12	10	0.44	0.01	0.45
(1,1003)	1:76:A:LEU:HD11	1:76:A:LEU:HD13	10	0.44	0.0	0.44
(1,1003)	1:76:A:LEU:HD12	1:76:A:LEU:HD13	10	0.44	0.0	0.44
(1,1003)	1:76:A:LEU:HD12	1:76:A:LEU:HD11	10	0.44	0.0	0.44
(1,3672)	1:89:A:ILE:H	1:133:A:ILE:HD12	10	0.44	0.04	0.44
(1,3672)	1:89:A:ILE:H	1:133:A:ILE:HD11	10	0.44	0.04	0.44
(1,3672)	1:89:A:ILE:H	1:133:A:ILE:HD13	10	0.44	0.04	0.44
(1,5770)	1:76:A:LEU:HD11	1:76:A:LEU:HD13	10	0.44	0.0	0.44
(1,5770)	1:76:A:LEU:HD12	1:76:A:LEU:HD13	10	0.44	0.0	0.44
(1,5770)	1:76:A:LEU:HD12	1:76:A:LEU:HD11	10	0.44	0.0	0.44
(1,8439)	1:89:A:ILE:H	1:133:A:ILE:HD12	10	0.44	0.04	0.44
(1,8439)	1:89:A:ILE:H	1:133:A:ILE:HD11	10	0.44	0.04	0.44
(1,8439)	1:89:A:ILE:H	1:133:A:ILE:HD13	10	0.44	0.04	0.44
(1,1982)	1:85:A:GLY:HA3	1:133:A:ILE:HD11	10	0.44	0.02	0.44
(1,1982)	1:85:A:GLY:HA3	1:133:A:ILE:HD13	10	0.44	0.02	0.44
(1,1982)	1:85:A:GLY:HA3	1:133:A:ILE:HD12	10	0.44	0.02	0.44
(1,6749)	1:85:A:GLY:HA3	1:133:A:ILE:HD11	10	0.44	0.02	0.44
(1,6749)	1:85:A:GLY:HA3	1:133:A:ILE:HD13	10	0.44	0.02	0.44
(1,6749)	1:85:A:GLY:HA3	1:133:A:ILE:HD12	10	0.44	0.02	0.44
(1,2263)	1:151:A:THR:HA	1:151:A:THR:HG22	10	0.44	0.02	0.44
(1,2263)	1:151:A:THR:HA	1:151:A:THR:HG23	10	0.44	0.02	0.44
(1,2263)	1:151:A:THR:HA	1:151:A:THR:HG21	10	0.44	0.02	0.44
(1,7030)	1:151:A:THR:HA	1:151:A:THR:HG22	10	0.44	0.02	0.44
(1,7030)	1:151:A:THR:HA	1:151:A:THR:HG23	10	0.44	0.02	0.44
(1,7030)	1:151:A:THR:HA	1:151:A:THR:HG21	10	0.44	0.02	0.44
(1,223)	1:38:A:ILE:HD13	1:30:A:ILE:HG13	10	0.44	0.09	0.43
(1,223)	1:38:A:ILE:HD12	1:30:A:ILE:HG13	10	0.44	0.09	0.43
(1,223)	1:38:A:ILE:HD11	1:30:A:ILE:HG13	10	0.44	0.09	0.43
(1,4990)	1:38:A:ILE:HD13	1:30:A:ILE:HG13	10	0.44	0.09	0.43
(1,4990)	1:38:A:ILE:HD12	1:30:A:ILE:HG13	10	0.44	0.09	0.43
(1,4990)	1:38:A:ILE:HD11	1:30:A:ILE:HG13	10	0.44	0.09	0.43
(1,487)	1:49:A:ILE:HG21	1:105:A:PHE:HD2	10	0.44	0.06	0.44
(1,487)	1:49:A:ILE:HG23	1:105:A:PHE:HD2	10	0.44	0.06	0.44
(1,487)	1:49:A:ILE:HG22	1:105:A:PHE:HD2	10	0.44	0.06	0.44
(1,5254)	1:49:A:ILE:HG21	1:105:A:PHE:HD2	10	0.44	0.06	0.44
(1,5254)	1:49:A:ILE:HG23	1:105:A:PHE:HD2	10	0.44	0.06	0.44

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5254)	1:49:A:ILE:HG22	1:105:A:PHE:HD2	10	0.44	0.06	0.44
(1,2215)	1:145:A:VAL:HG22	1:145:A:VAL:HG21	10	0.44	0.0	0.44
(1,2215)	1:145:A:VAL:HG22	1:145:A:VAL:HG23	10	0.44	0.0	0.44
(1,2215)	1:145:A:VAL:HG21	1:145:A:VAL:HG23	10	0.44	0.0	0.44
(1,6982)	1:145:A:VAL:HG22	1:145:A:VAL:HG21	10	0.44	0.0	0.44
(1,6982)	1:145:A:VAL:HG22	1:145:A:VAL:HG23	10	0.44	0.0	0.44
(1,6982)	1:145:A:VAL:HG21	1:145:A:VAL:HG23	10	0.44	0.0	0.44
(1,4392)	1:159:A:TYR:H	1:157:A:ILE:HG23	10	0.43	0.05	0.46
(1,4392)	1:159:A:TYR:H	1:157:A:ILE:HG21	10	0.43	0.05	0.46
(1,4392)	1:159:A:TYR:H	1:157:A:ILE:HG22	10	0.43	0.05	0.46
(1,9159)	1:159:A:TYR:H	1:157:A:ILE:HG23	10	0.43	0.05	0.46
(1,9159)	1:159:A:TYR:H	1:157:A:ILE:HG21	10	0.43	0.05	0.46
(1,9159)	1:159:A:TYR:H	1:157:A:ILE:HG22	10	0.43	0.05	0.46
(1,645)	1:61:A:ALA:HB3	1:40:A:LEU:HD21	10	0.43	0.07	0.41
(1,645)	1:61:A:ALA:HB1	1:40:A:LEU:HD21	10	0.43	0.07	0.41
(1,645)	1:61:A:ALA:HB3	1:40:A:LEU:HD22	10	0.43	0.07	0.41
(1,645)	1:61:A:ALA:HB1	1:40:A:LEU:HD23	10	0.43	0.07	0.41
(1,645)	1:61:A:ALA:HB2	1:40:A:LEU:HD21	10	0.43	0.07	0.41
(1,645)	1:61:A:ALA:HB2	1:40:A:LEU:HD23	10	0.43	0.07	0.41
(1,4539)	1:37:A:TYR:H	1:152:A:LEU:HD13	10	0.43	0.02	0.43
(1,4539)	1:37:A:TYR:H	1:152:A:LEU:HD11	10	0.43	0.02	0.43
(1,4539)	1:37:A:TYR:H	1:152:A:LEU:HD12	10	0.43	0.02	0.43
(1,4718)	1:37:A:TYR:H	1:152:A:LEU:HD13	10	0.43	0.02	0.43
(1,4718)	1:37:A:TYR:H	1:152:A:LEU:HD11	10	0.43	0.02	0.43
(1,4718)	1:37:A:TYR:H	1:152:A:LEU:HD12	10	0.43	0.02	0.43
(1,5412)	1:61:A:ALA:HB3	1:40:A:LEU:HD21	10	0.43	0.07	0.41
(1,5412)	1:61:A:ALA:HB1	1:40:A:LEU:HD21	10	0.43	0.07	0.41
(1,5412)	1:61:A:ALA:HB3	1:40:A:LEU:HD22	10	0.43	0.07	0.41
(1,5412)	1:61:A:ALA:HB1	1:40:A:LEU:HD23	10	0.43	0.07	0.41
(1,5412)	1:61:A:ALA:HB2	1:40:A:LEU:HD21	10	0.43	0.07	0.41
(1,5412)	1:61:A:ALA:HB2	1:40:A:LEU:HD23	10	0.43	0.07	0.41
(1,4474)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	10	0.43	0.02	0.42
(1,4653)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	10	0.43	0.02	0.42
(1,948)	1:75:A:ILE:HA	1:79:A:LEU:HD21	10	0.43	0.03	0.43
(1,948)	1:75:A:ILE:HA	1:79:A:LEU:HD23	10	0.43	0.03	0.43
(1,948)	1:75:A:ILE:HA	1:79:A:LEU:HD22	10	0.43	0.03	0.43
(1,3366)	1:63:A:MET:H	1:63:A:MET:HE2	10	0.43	0.05	0.42
(1,3366)	1:63:A:MET:H	1:63:A:MET:HE3	10	0.43	0.05	0.42
(1,3366)	1:63:A:MET:H	1:63:A:MET:HE1	10	0.43	0.05	0.42
(1,5715)	1:75:A:ILE:HA	1:79:A:LEU:HD21	10	0.43	0.03	0.43
(1,5715)	1:75:A:ILE:HA	1:79:A:LEU:HD23	10	0.43	0.03	0.43
(1,5715)	1:75:A:ILE:HA	1:79:A:LEU:HD22	10	0.43	0.03	0.43

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,8133)	1:63:A:MET:H	1:63:A:MET:HE2	10	0.43	0.05	0.42
(1,8133)	1:63:A:MET:H	1:63:A:MET:HE3	10	0.43	0.05	0.42
(1,8133)	1:63:A:MET:H	1:63:A:MET:HE1	10	0.43	0.05	0.42
(1,4580)	1:137:A:GLU:H	1:131:A:LEU:HG	10	0.43	0.03	0.43
(1,4759)	1:137:A:GLU:H	1:131:A:LEU:HG	10	0.43	0.03	0.43
(1,1276)	1:89:A:ILE:HD13	1:131:A:LEU:HA	10	0.43	0.03	0.42
(1,1276)	1:89:A:ILE:HD12	1:131:A:LEU:HA	10	0.43	0.03	0.42
(1,1276)	1:89:A:ILE:HD11	1:131:A:LEU:HA	10	0.43	0.03	0.42
(1,1652)	1:111:A:THR:HG22	1:111:A:THR:HG23	10	0.43	0.01	0.43
(1,1652)	1:111:A:THR:HG21	1:111:A:THR:HG22	10	0.43	0.01	0.43
(1,1652)	1:111:A:THR:HG21	1:111:A:THR:HG23	10	0.43	0.01	0.43
(1,2627)	1:74:A:PHE:HZ	1:30:A:ILE:HD12	10	0.43	0.04	0.44
(1,2627)	1:74:A:PHE:HZ	1:30:A:ILE:HD11	10	0.43	0.04	0.44
(1,2627)	1:74:A:PHE:HZ	1:30:A:ILE:HD13	10	0.43	0.04	0.44
(1,4278)	1:146:A:SER:H	1:145:A:VAL:HG13	10	0.43	0.02	0.44
(1,4278)	1:146:A:SER:H	1:145:A:VAL:HG12	10	0.43	0.02	0.44
(1,4278)	1:146:A:SER:H	1:145:A:VAL:HG11	10	0.43	0.02	0.44
(1,6043)	1:89:A:ILE:HD13	1:131:A:LEU:HA	10	0.43	0.03	0.42
(1,6043)	1:89:A:ILE:HD12	1:131:A:LEU:HA	10	0.43	0.03	0.42
(1,6043)	1:89:A:ILE:HD11	1:131:A:LEU:HA	10	0.43	0.03	0.42
(1,6419)	1:111:A:THR:HG22	1:111:A:THR:HG23	10	0.43	0.01	0.43
(1,6419)	1:111:A:THR:HG21	1:111:A:THR:HG22	10	0.43	0.01	0.43
(1,6419)	1:111:A:THR:HG21	1:111:A:THR:HG23	10	0.43	0.01	0.43
(1,7394)	1:74:A:PHE:HZ	1:30:A:ILE:HD12	10	0.43	0.04	0.44
(1,7394)	1:74:A:PHE:HZ	1:30:A:ILE:HD11	10	0.43	0.04	0.44
(1,7394)	1:74:A:PHE:HZ	1:30:A:ILE:HD13	10	0.43	0.04	0.44
(1,9045)	1:146:A:SER:H	1:145:A:VAL:HG13	10	0.43	0.02	0.44
(1,9045)	1:146:A:SER:H	1:145:A:VAL:HG12	10	0.43	0.02	0.44
(1,9045)	1:146:A:SER:H	1:145:A:VAL:HG11	10	0.43	0.02	0.44
(1,423)	1:46:A:VAL:HG23	1:47:A:GLU:H	10	0.42	0.02	0.42
(1,423)	1:46:A:VAL:HG21	1:47:A:GLU:H	10	0.42	0.02	0.42
(1,423)	1:46:A:VAL:HG22	1:47:A:GLU:H	10	0.42	0.02	0.42
(1,1878)	1:129:A:ALA:HB3	1:91:A:LEU:HB3	10	0.42	0.08	0.4
(1,1878)	1:129:A:ALA:HB2	1:91:A:LEU:HB3	10	0.42	0.08	0.4
(1,1878)	1:129:A:ALA:HB1	1:91:A:LEU:HB3	10	0.42	0.08	0.4
(1,5190)	1:46:A:VAL:HG23	1:47:A:GLU:H	10	0.42	0.02	0.42
(1,5190)	1:46:A:VAL:HG21	1:47:A:GLU:H	10	0.42	0.02	0.42
(1,5190)	1:46:A:VAL:HG22	1:47:A:GLU:H	10	0.42	0.02	0.42
(1,6645)	1:129:A:ALA:HB3	1:91:A:LEU:HB3	10	0.42	0.08	0.4
(1,6645)	1:129:A:ALA:HB2	1:91:A:LEU:HB3	10	0.42	0.08	0.4
(1,6645)	1:129:A:ALA:HB1	1:91:A:LEU:HB3	10	0.42	0.08	0.4
(1,2436)	1:157:A:ILE:HG22	1:35:A:SER:HB2	10	0.42	0.03	0.42

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2436)	1:157:A:ILE:HG23	1:35:A:SER:HB2	10	0.42	0.03	0.42
(1,2436)	1:157:A:ILE:HG21	1:35:A:SER:HB2	10	0.42	0.03	0.42
(1,7203)	1:157:A:ILE:HG22	1:35:A:SER:HB2	10	0.42	0.03	0.42
(1,7203)	1:157:A:ILE:HG23	1:35:A:SER:HB2	10	0.42	0.03	0.42
(1,7203)	1:157:A:ILE:HG21	1:35:A:SER:HB2	10	0.42	0.03	0.42
(1,924)	1:73:A:ALA:HB3	1:76:A:LEU:HB3	10	0.42	0.02	0.42
(1,924)	1:73:A:ALA:HB1	1:76:A:LEU:HB3	10	0.42	0.02	0.42
(1,924)	1:73:A:ALA:HB2	1:76:A:LEU:HB3	10	0.42	0.02	0.42
(1,3226)	1:54:A:ASN:H	1:52:A:VAL:HG21	10	0.42	0.02	0.42
(1,3226)	1:54:A:ASN:H	1:52:A:VAL:HG22	10	0.42	0.02	0.42
(1,3226)	1:54:A:ASN:H	1:52:A:VAL:HG23	10	0.42	0.02	0.42
(1,5691)	1:73:A:ALA:HB3	1:76:A:LEU:HB3	10	0.42	0.02	0.42
(1,5691)	1:73:A:ALA:HB1	1:76:A:LEU:HB3	10	0.42	0.02	0.42
(1,5691)	1:73:A:ALA:HB2	1:76:A:LEU:HB3	10	0.42	0.02	0.42
(1,7993)	1:54:A:ASN:H	1:52:A:VAL:HG21	10	0.42	0.02	0.42
(1,7993)	1:54:A:ASN:H	1:52:A:VAL:HG22	10	0.42	0.02	0.42
(1,7993)	1:54:A:ASN:H	1:52:A:VAL:HG23	10	0.42	0.02	0.42
(1,2239)	1:148:A:VAL:HG22	1:148:A:VAL:HG21	10	0.42	0.0	0.42
(1,2239)	1:148:A:VAL:HG21	1:148:A:VAL:HG23	10	0.42	0.0	0.42
(1,2239)	1:148:A:VAL:HG22	1:148:A:VAL:HG23	10	0.42	0.0	0.42
(1,7006)	1:148:A:VAL:HG22	1:148:A:VAL:HG21	10	0.42	0.0	0.42
(1,7006)	1:148:A:VAL:HG21	1:148:A:VAL:HG23	10	0.42	0.0	0.42
(1,7006)	1:148:A:VAL:HG22	1:148:A:VAL:HG23	10	0.42	0.0	0.42
(1,539)	1:52:A:VAL:HG13	1:48:A:SER:H	10	0.42	0.01	0.42
(1,539)	1:52:A:VAL:HG11	1:48:A:SER:H	10	0.42	0.01	0.42
(1,539)	1:52:A:VAL:HG12	1:48:A:SER:H	10	0.42	0.01	0.42
(1,5306)	1:52:A:VAL:HG13	1:48:A:SER:H	10	0.42	0.01	0.42
(1,5306)	1:52:A:VAL:HG11	1:48:A:SER:H	10	0.42	0.01	0.42
(1,5306)	1:52:A:VAL:HG12	1:48:A:SER:H	10	0.42	0.01	0.42
(1,490)	1:49:A:ILE:HG23	1:144:A:GLU:HG2	10	0.42	0.03	0.43
(1,490)	1:49:A:ILE:HG22	1:144:A:GLU:HG2	10	0.42	0.03	0.43
(1,490)	1:49:A:ILE:HG21	1:144:A:GLU:HG2	10	0.42	0.03	0.43
(1,551)	1:52:A:VAL:HG21	1:52:A:VAL:H	10	0.42	0.03	0.41
(1,551)	1:52:A:VAL:HG22	1:52:A:VAL:H	10	0.42	0.03	0.41
(1,551)	1:52:A:VAL:HG23	1:52:A:VAL:H	10	0.42	0.03	0.41
(1,5257)	1:49:A:ILE:HG23	1:144:A:GLU:HG2	10	0.42	0.03	0.43
(1,5257)	1:49:A:ILE:HG22	1:144:A:GLU:HG2	10	0.42	0.03	0.43
(1,5257)	1:49:A:ILE:HG21	1:144:A:GLU:HG2	10	0.42	0.03	0.43
(1,5318)	1:52:A:VAL:HG21	1:52:A:VAL:H	10	0.42	0.03	0.41
(1,5318)	1:52:A:VAL:HG22	1:52:A:VAL:H	10	0.42	0.03	0.41
(1,5318)	1:52:A:VAL:HG23	1:52:A:VAL:H	10	0.42	0.03	0.41
(1,643)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	10	0.42	0.05	0.44

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,643)	1:61:A:ALA:HB2	1:29:A:TRP:HZ2	10	0.42	0.05	0.44
(1,643)	1:61:A:ALA:HB3	1:29:A:TRP:HZ2	10	0.42	0.05	0.44
(1,5410)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	10	0.42	0.05	0.44
(1,5410)	1:61:A:ALA:HB2	1:29:A:TRP:HZ2	10	0.42	0.05	0.44
(1,5410)	1:61:A:ALA:HB3	1:29:A:TRP:HZ2	10	0.42	0.05	0.44
(1,1941)	1:131:A:LEU:HD21	1:88:A:ASP:HA	10	0.41	0.08	0.41
(1,1941)	1:131:A:LEU:HD22	1:88:A:ASP:HA	10	0.41	0.08	0.41
(1,1941)	1:131:A:LEU:HD23	1:88:A:ASP:HA	10	0.41	0.08	0.41
(1,4553)	1:66:A:ILE:H	1:154:A:LYS:HE3	10	0.41	0.16	0.43
(1,4732)	1:66:A:ILE:H	1:154:A:LYS:HE3	10	0.41	0.16	0.43
(1,6708)	1:131:A:LEU:HD21	1:88:A:ASP:HA	10	0.41	0.08	0.41
(1,6708)	1:131:A:LEU:HD22	1:88:A:ASP:HA	10	0.41	0.08	0.41
(1,6708)	1:131:A:LEU:HD23	1:88:A:ASP:HA	10	0.41	0.08	0.41
(1,1329)	1:90:A:LEU:HD13	1:90:A:LEU:H	10	0.41	0.03	0.41
(1,1329)	1:90:A:LEU:HD11	1:90:A:LEU:H	10	0.41	0.03	0.41
(1,1329)	1:90:A:LEU:HD12	1:90:A:LEU:H	10	0.41	0.03	0.41
(1,6096)	1:90:A:LEU:HD13	1:90:A:LEU:H	10	0.41	0.03	0.41
(1,6096)	1:90:A:LEU:HD11	1:90:A:LEU:H	10	0.41	0.03	0.41
(1,6096)	1:90:A:LEU:HD12	1:90:A:LEU:H	10	0.41	0.03	0.41
(1,1278)	1:89:A:ILE:HD11	1:88:A:ASP:HB2	10	0.41	0.13	0.43
(1,1278)	1:89:A:ILE:HD11	1:88:A:ASP:HB3	10	0.41	0.13	0.43
(1,1278)	1:89:A:ILE:HD13	1:88:A:ASP:HB3	10	0.41	0.13	0.43
(1,1278)	1:89:A:ILE:HD12	1:88:A:ASP:HB2	10	0.41	0.13	0.43
(1,1278)	1:89:A:ILE:HD12	1:88:A:ASP:HB3	10	0.41	0.13	0.43
(1,6045)	1:89:A:ILE:HD11	1:88:A:ASP:HB2	10	0.41	0.13	0.43
(1,6045)	1:89:A:ILE:HD11	1:88:A:ASP:HB3	10	0.41	0.13	0.43
(1,6045)	1:89:A:ILE:HD13	1:88:A:ASP:HB3	10	0.41	0.13	0.43
(1,6045)	1:89:A:ILE:HD12	1:88:A:ASP:HB2	10	0.41	0.13	0.43
(1,6045)	1:89:A:ILE:HD12	1:88:A:ASP:HB3	10	0.41	0.13	0.43
(1,208)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	10	0.4	0.07	0.4
(1,4975)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	10	0.4	0.07	0.4
(1,1813)	1:124:A:LEU:HD21	1:124:A:LEU:HD23	10	0.4	0.0	0.4
(1,1813)	1:124:A:LEU:HD22	1:124:A:LEU:HD21	10	0.4	0.0	0.4
(1,1813)	1:124:A:LEU:HD22	1:124:A:LEU:HD23	10	0.4	0.0	0.4
(1,6580)	1:124:A:LEU:HD21	1:124:A:LEU:HD23	10	0.4	0.0	0.4
(1,6580)	1:124:A:LEU:HD22	1:124:A:LEU:HD21	10	0.4	0.0	0.4
(1,6580)	1:124:A:LEU:HD22	1:124:A:LEU:HD23	10	0.4	0.0	0.4
(1,1305)	1:89:A:ILE:HG12	1:89:A:ILE:HG22	10	0.4	0.01	0.4
(1,1305)	1:89:A:ILE:HG12	1:89:A:ILE:HG23	10	0.4	0.01	0.4
(1,1305)	1:89:A:ILE:HG12	1:89:A:ILE:HG21	10	0.4	0.01	0.4
(1,6072)	1:89:A:ILE:HG12	1:89:A:ILE:HG22	10	0.4	0.01	0.4
(1,6072)	1:89:A:ILE:HG12	1:89:A:ILE:HG23	10	0.4	0.01	0.4

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6072)	1:89:A:ILE:HG12	1:89:A:ILE:HG21	10	0.4	0.01	0.4
(1,2617)	1:74:A:PHE:HE1	1:75:A:ILE:HA	10	0.4	0.05	0.4
(1,3524)	1:75:A:ILE:H	1:32:A:PHE:HD2	10	0.4	0.08	0.41
(1,7384)	1:74:A:PHE:HE1	1:75:A:ILE:HA	10	0.4	0.05	0.4
(1,8291)	1:75:A:ILE:H	1:32:A:PHE:HD2	10	0.4	0.08	0.41
(1,4113)	1:133:A:ILE:H	1:131:A:LEU:HD12	10	0.4	0.08	0.44
(1,4113)	1:133:A:ILE:H	1:131:A:LEU:HD13	10	0.4	0.08	0.44
(1,4113)	1:133:A:ILE:H	1:131:A:LEU:HD11	10	0.4	0.08	0.44
(1,8880)	1:133:A:ILE:H	1:131:A:LEU:HD12	10	0.4	0.08	0.44
(1,8880)	1:133:A:ILE:H	1:131:A:LEU:HD13	10	0.4	0.08	0.44
(1,8880)	1:133:A:ILE:H	1:131:A:LEU:HD11	10	0.4	0.08	0.44
(1,618)	1:58:A:ASP:H	1:57:A:THR:HG23	10	0.4	0.01	0.4
(1,618)	1:58:A:ASP:H	1:57:A:THR:HG21	10	0.4	0.01	0.4
(1,618)	1:58:A:ASP:H	1:57:A:THR:HG22	10	0.4	0.01	0.4
(1,5385)	1:58:A:ASP:H	1:57:A:THR:HG23	10	0.4	0.01	0.4
(1,5385)	1:58:A:ASP:H	1:57:A:THR:HG21	10	0.4	0.01	0.4
(1,5385)	1:58:A:ASP:H	1:57:A:THR:HG22	10	0.4	0.01	0.4
(1,1380)	1:91:A:LEU:HD12	1:66:A:ILE:HB	10	0.4	0.06	0.38
(1,1380)	1:91:A:LEU:HD11	1:66:A:ILE:HB	10	0.4	0.06	0.38
(1,1380)	1:91:A:LEU:HD13	1:66:A:ILE:HB	10	0.4	0.06	0.38
(1,6147)	1:91:A:LEU:HD12	1:66:A:ILE:HB	10	0.4	0.06	0.38
(1,6147)	1:91:A:LEU:HD11	1:66:A:ILE:HB	10	0.4	0.06	0.38
(1,6147)	1:91:A:LEU:HD13	1:66:A:ILE:HB	10	0.4	0.06	0.38
(1,1524)	1:100:A:ALA:HB2	1:100:A:ALA:HB1	10	0.39	0.0	0.39
(1,1524)	1:100:A:ALA:HB1	1:100:A:ALA:HB3	10	0.39	0.0	0.39
(1,1524)	1:100:A:ALA:HB2	1:100:A:ALA:HB3	10	0.39	0.0	0.39
(1,6291)	1:100:A:ALA:HB2	1:100:A:ALA:HB1	10	0.39	0.0	0.39
(1,6291)	1:100:A:ALA:HB1	1:100:A:ALA:HB3	10	0.39	0.0	0.39
(1,6291)	1:100:A:ALA:HB2	1:100:A:ALA:HB3	10	0.39	0.0	0.39
(1,674)	1:63:A:MET:HE2	1:63:A:MET:HE3	10	0.39	0.01	0.38
(1,674)	1:63:A:MET:HE2	1:63:A:MET:HE1	10	0.39	0.01	0.38
(1,674)	1:63:A:MET:HE1	1:63:A:MET:HE3	10	0.39	0.01	0.38
(1,5441)	1:63:A:MET:HE2	1:63:A:MET:HE3	10	0.39	0.01	0.38
(1,5441)	1:63:A:MET:HE2	1:63:A:MET:HE1	10	0.39	0.01	0.38
(1,5441)	1:63:A:MET:HE1	1:63:A:MET:HE3	10	0.39	0.01	0.38
(1,4194)	1:139:A:LYS:H	1:116:A:THR:HG23	10	0.39	0.04	0.4
(1,4194)	1:139:A:LYS:H	1:116:A:THR:HG22	10	0.39	0.04	0.4
(1,4194)	1:139:A:LYS:H	1:116:A:THR:HG21	10	0.39	0.04	0.4
(1,8961)	1:139:A:LYS:H	1:116:A:THR:HG23	10	0.39	0.04	0.4
(1,8961)	1:139:A:LYS:H	1:116:A:THR:HG22	10	0.39	0.04	0.4
(1,8961)	1:139:A:LYS:H	1:116:A:THR:HG21	10	0.39	0.04	0.4
(1,1093)	1:79:A:LEU:HD12	1:89:A:ILE:H	10	0.39	0.05	0.37

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1093)	1:79:A:LEU:HD13	1:89:A:ILE:H	10	0.39	0.05	0.37
(1,1093)	1:79:A:LEU:HD11	1:89:A:ILE:H	10	0.39	0.05	0.37
(1,4542)	1:40:A:LEU:H	1:40:A:LEU:HB2	10	0.39	0.01	0.39
(1,4721)	1:40:A:LEU:H	1:40:A:LEU:HB2	10	0.39	0.01	0.39
(1,5860)	1:79:A:LEU:HD12	1:89:A:ILE:H	10	0.39	0.05	0.37
(1,5860)	1:79:A:LEU:HD13	1:89:A:ILE:H	10	0.39	0.05	0.37
(1,5860)	1:79:A:LEU:HD11	1:89:A:ILE:H	10	0.39	0.05	0.37
(1,3622)	1:83:A:TRP:HE1	1:30:A:ILE:HD13	10	0.39	0.09	0.41
(1,3622)	1:83:A:TRP:HE1	1:30:A:ILE:HD12	10	0.39	0.09	0.41
(1,3622)	1:83:A:TRP:HE1	1:30:A:ILE:HD11	10	0.39	0.09	0.41
(1,8389)	1:83:A:TRP:HE1	1:30:A:ILE:HD13	10	0.39	0.09	0.41
(1,8389)	1:83:A:TRP:HE1	1:30:A:ILE:HD12	10	0.39	0.09	0.41
(1,8389)	1:83:A:TRP:HE1	1:30:A:ILE:HD11	10	0.39	0.09	0.41
(1,300)	1:40:A:LEU:HD11	1:152:A:LEU:HD12	10	0.38	0.04	0.4
(1,300)	1:40:A:LEU:HD13	1:152:A:LEU:HD12	10	0.38	0.04	0.4
(1,300)	1:40:A:LEU:HD12	1:152:A:LEU:HD13	10	0.38	0.04	0.4
(1,300)	1:40:A:LEU:HD13	1:152:A:LEU:HD11	10	0.38	0.04	0.4
(1,300)	1:40:A:LEU:HD11	1:152:A:LEU:HD11	10	0.38	0.04	0.4
(1,300)	1:40:A:LEU:HD12	1:152:A:LEU:HD12	10	0.38	0.04	0.4
(1,1343)	1:90:A:LEU:HD22	1:90:A:LEU:H	10	0.38	0.04	0.4
(1,1343)	1:90:A:LEU:HD21	1:90:A:LEU:H	10	0.38	0.04	0.4
(1,1343)	1:90:A:LEU:HD23	1:90:A:LEU:H	10	0.38	0.04	0.4
(1,5067)	1:40:A:LEU:HD11	1:152:A:LEU:HD12	10	0.38	0.04	0.4
(1,5067)	1:40:A:LEU:HD13	1:152:A:LEU:HD12	10	0.38	0.04	0.4
(1,5067)	1:40:A:LEU:HD12	1:152:A:LEU:HD13	10	0.38	0.04	0.4
(1,5067)	1:40:A:LEU:HD13	1:152:A:LEU:HD11	10	0.38	0.04	0.4
(1,5067)	1:40:A:LEU:HD11	1:152:A:LEU:HD11	10	0.38	0.04	0.4
(1,5067)	1:40:A:LEU:HD12	1:152:A:LEU:HD12	10	0.38	0.04	0.4
(1,6110)	1:90:A:LEU:HD22	1:90:A:LEU:H	10	0.38	0.04	0.4
(1,6110)	1:90:A:LEU:HD21	1:90:A:LEU:H	10	0.38	0.04	0.4
(1,6110)	1:90:A:LEU:HD23	1:90:A:LEU:H	10	0.38	0.04	0.4
(1,529)	1:52:A:VAL:HA	1:52:A:VAL:HG13	10	0.38	0.01	0.38
(1,529)	1:52:A:VAL:HA	1:52:A:VAL:HG11	10	0.38	0.01	0.38
(1,529)	1:52:A:VAL:HA	1:52:A:VAL:HG12	10	0.38	0.01	0.38
(1,1911)	1:76:A:LEU:H	1:131:A:LEU:HD13	10	0.38	0.01	0.38
(1,1911)	1:76:A:LEU:H	1:131:A:LEU:HD11	10	0.38	0.01	0.38
(1,1911)	1:76:A:LEU:H	1:131:A:LEU:HD12	10	0.38	0.01	0.38
(1,2659)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	10	0.38	0.02	0.38
(1,5296)	1:52:A:VAL:HA	1:52:A:VAL:HG13	10	0.38	0.01	0.38
(1,5296)	1:52:A:VAL:HA	1:52:A:VAL:HG11	10	0.38	0.01	0.38
(1,5296)	1:52:A:VAL:HA	1:52:A:VAL:HG12	10	0.38	0.01	0.38
(1,6678)	1:76:A:LEU:H	1:131:A:LEU:HD13	10	0.38	0.01	0.38

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6678)	1:76:A:LEU:H	1:131:A:LEU:HD11	10	0.38	0.01	0.38
(1,6678)	1:76:A:LEU:H	1:131:A:LEU:HD12	10	0.38	0.01	0.38
(1,7426)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	10	0.38	0.02	0.38
(1,475)	1:49:A:ILE:HD12	1:128:A:CYS:HB2	10	0.38	0.02	0.38
(1,475)	1:49:A:ILE:HD13	1:128:A:CYS:HB2	10	0.38	0.02	0.38
(1,475)	1:49:A:ILE:HD11	1:128:A:CYS:HB2	10	0.38	0.02	0.38
(1,513)	1:50:A:GLU:HG3	1:49:A:ILE:HG22	10	0.38	0.07	0.41
(1,513)	1:50:A:GLU:HG3	1:49:A:ILE:HG21	10	0.38	0.07	0.41
(1,513)	1:50:A:GLU:HG3	1:49:A:ILE:HG23	10	0.38	0.07	0.41
(1,5242)	1:49:A:ILE:HD12	1:128:A:CYS:HB2	10	0.38	0.02	0.38
(1,5242)	1:49:A:ILE:HD13	1:128:A:CYS:HB2	10	0.38	0.02	0.38
(1,5242)	1:49:A:ILE:HD11	1:128:A:CYS:HB2	10	0.38	0.02	0.38
(1,5280)	1:50:A:GLU:HG3	1:49:A:ILE:HG22	10	0.38	0.07	0.41
(1,5280)	1:50:A:GLU:HG3	1:49:A:ILE:HG21	10	0.38	0.07	0.41
(1,5280)	1:50:A:GLU:HG3	1:49:A:ILE:HG23	10	0.38	0.07	0.41
(1,306)	1:40:A:LEU:HB3	1:40:A:LEU:HD22	10	0.38	0.01	0.37
(1,306)	1:40:A:LEU:HB3	1:40:A:LEU:HD23	10	0.38	0.01	0.37
(1,306)	1:40:A:LEU:HB3	1:40:A:LEU:HD21	10	0.38	0.01	0.37
(1,5073)	1:40:A:LEU:HB3	1:40:A:LEU:HD22	10	0.38	0.01	0.37
(1,5073)	1:40:A:LEU:HB3	1:40:A:LEU:HD23	10	0.38	0.01	0.37
(1,5073)	1:40:A:LEU:HB3	1:40:A:LEU:HD21	10	0.38	0.01	0.37
(1,375)	1:44:A:ILE:HG23	1:55:A:GLN:HG3	10	0.37	0.02	0.38
(1,375)	1:44:A:ILE:HG21	1:55:A:GLN:HG3	10	0.37	0.02	0.38
(1,375)	1:44:A:ILE:HG22	1:55:A:GLN:HG3	10	0.37	0.02	0.38
(1,5142)	1:44:A:ILE:HG23	1:55:A:GLN:HG3	10	0.37	0.02	0.38
(1,5142)	1:44:A:ILE:HG21	1:55:A:GLN:HG3	10	0.37	0.02	0.38
(1,5142)	1:44:A:ILE:HG22	1:55:A:GLN:HG3	10	0.37	0.02	0.38
(1,438)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	10	0.37	0.08	0.4
(1,614)	1:56:A:CYS:HB3	1:57:A:THR:HG23	10	0.37	0.02	0.37
(1,614)	1:56:A:CYS:HB3	1:57:A:THR:HG21	10	0.37	0.02	0.37
(1,614)	1:56:A:CYS:HB3	1:57:A:THR:HG22	10	0.37	0.02	0.37
(1,5205)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	10	0.37	0.08	0.4
(1,5381)	1:56:A:CYS:HB3	1:57:A:THR:HG23	10	0.37	0.02	0.37
(1,5381)	1:56:A:CYS:HB3	1:57:A:THR:HG21	10	0.37	0.02	0.37
(1,5381)	1:56:A:CYS:HB3	1:57:A:THR:HG22	10	0.37	0.02	0.37
(1,458)	1:49:A:ILE:HA	1:49:A:ILE:HG22	10	0.37	0.02	0.37
(1,458)	1:49:A:ILE:HA	1:49:A:ILE:HG21	10	0.37	0.02	0.37
(1,458)	1:49:A:ILE:HA	1:49:A:ILE:HG23	10	0.37	0.02	0.37
(1,809)	1:66:A:ILE:HG23	1:91:A:LEU:HD22	10	0.37	0.2	0.3
(1,809)	1:66:A:ILE:HG23	1:91:A:LEU:HD23	10	0.37	0.2	0.3
(1,809)	1:66:A:ILE:HG21	1:91:A:LEU:HD22	10	0.37	0.2	0.3
(1,809)	1:66:A:ILE:HG21	1:91:A:LEU:HD23	10	0.37	0.2	0.3

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,809)	1:66:A:ILE:HG22	1:91:A:LEU:HD21	10	0.37	0.2	0.3
(1,5225)	1:49:A:ILE:HA	1:49:A:ILE:HG22	10	0.37	0.02	0.37
(1,5225)	1:49:A:ILE:HA	1:49:A:ILE:HG21	10	0.37	0.02	0.37
(1,5225)	1:49:A:ILE:HA	1:49:A:ILE:HG23	10	0.37	0.02	0.37
(1,5576)	1:66:A:ILE:HG23	1:91:A:LEU:HD22	10	0.37	0.2	0.3
(1,5576)	1:66:A:ILE:HG23	1:91:A:LEU:HD23	10	0.37	0.2	0.3
(1,5576)	1:66:A:ILE:HG21	1:91:A:LEU:HD22	10	0.37	0.2	0.3
(1,5576)	1:66:A:ILE:HG21	1:91:A:LEU:HD23	10	0.37	0.2	0.3
(1,5576)	1:66:A:ILE:HG22	1:91:A:LEU:HD21	10	0.37	0.2	0.3
(1,3161)	1:49:A:ILE:H	1:46:A:VAL:HG13	10	0.37	0.06	0.36
(1,3161)	1:49:A:ILE:H	1:46:A:VAL:HG11	10	0.37	0.06	0.36
(1,3161)	1:49:A:ILE:H	1:46:A:VAL:HG12	10	0.37	0.06	0.36
(1,7928)	1:49:A:ILE:H	1:46:A:VAL:HG13	10	0.37	0.06	0.36
(1,7928)	1:49:A:ILE:H	1:46:A:VAL:HG11	10	0.37	0.06	0.36
(1,7928)	1:49:A:ILE:H	1:46:A:VAL:HG12	10	0.37	0.06	0.36
(1,836)	1:69:A:GLU:HA	1:73:A:ALA:HB2	10	0.37	0.04	0.36
(1,836)	1:69:A:GLU:HA	1:73:A:ALA:HB3	10	0.37	0.04	0.36
(1,836)	1:69:A:GLU:HA	1:73:A:ALA:HB1	10	0.37	0.04	0.36
(1,2748)	1:105:A:PHE:HE1	1:49:A:ILE:HG22	10	0.37	0.04	0.38
(1,2748)	1:105:A:PHE:HE1	1:49:A:ILE:HG21	10	0.37	0.04	0.38
(1,2748)	1:105:A:PHE:HE1	1:49:A:ILE:HG23	10	0.37	0.04	0.38
(1,5603)	1:69:A:GLU:HA	1:73:A:ALA:HB2	10	0.37	0.04	0.36
(1,5603)	1:69:A:GLU:HA	1:73:A:ALA:HB3	10	0.37	0.04	0.36
(1,5603)	1:69:A:GLU:HA	1:73:A:ALA:HB1	10	0.37	0.04	0.36
(1,7515)	1:105:A:PHE:HE1	1:49:A:ILE:HG22	10	0.37	0.04	0.38
(1,7515)	1:105:A:PHE:HE1	1:49:A:ILE:HG21	10	0.37	0.04	0.38
(1,7515)	1:105:A:PHE:HE1	1:49:A:ILE:HG23	10	0.37	0.04	0.38
(1,2637)	1:83:A:TRP:HH2	1:79:A:LEU:HD13	10	0.37	0.01	0.36
(1,2637)	1:83:A:TRP:HH2	1:79:A:LEU:HD11	10	0.37	0.01	0.36
(1,2637)	1:83:A:TRP:HH2	1:79:A:LEU:HD12	10	0.37	0.01	0.36
(1,7404)	1:83:A:TRP:HH2	1:79:A:LEU:HD13	10	0.37	0.01	0.36
(1,7404)	1:83:A:TRP:HH2	1:79:A:LEU:HD11	10	0.37	0.01	0.36
(1,7404)	1:83:A:TRP:HH2	1:79:A:LEU:HD12	10	0.37	0.01	0.36
(1,1025)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	10	0.37	0.0	0.37
(1,1025)	1:76:A:LEU:HD21	1:76:A:LEU:HD23	10	0.37	0.0	0.37
(1,5792)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	10	0.37	0.0	0.37
(1,5792)	1:76:A:LEU:HD21	1:76:A:LEU:HD23	10	0.37	0.0	0.37
(1,2407)	1:156:A:ALA:HB2	1:156:A:ALA:HB1	10	0.37	0.0	0.37
(1,2407)	1:156:A:ALA:HB2	1:156:A:ALA:HB3	10	0.37	0.0	0.37
(1,2407)	1:156:A:ALA:HB1	1:156:A:ALA:HB3	10	0.37	0.0	0.37
(1,7174)	1:156:A:ALA:HB2	1:156:A:ALA:HB1	10	0.37	0.0	0.37
(1,7174)	1:156:A:ALA:HB2	1:156:A:ALA:HB3	10	0.37	0.0	0.37

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,7174)	1:156:A:ALA:HB1	1:156:A:ALA:HB3	10	0.37	0.0	0.37
(1,261)	1:38:A:ILE:HG21	1:40:A:LEU:HG	10	0.36	0.02	0.36
(1,261)	1:38:A:ILE:HG22	1:40:A:LEU:HG	10	0.36	0.02	0.36
(1,261)	1:38:A:ILE:HG23	1:40:A:LEU:HG	10	0.36	0.02	0.36
(1,5028)	1:38:A:ILE:HG21	1:40:A:LEU:HG	10	0.36	0.02	0.36
(1,5028)	1:38:A:ILE:HG22	1:40:A:LEU:HG	10	0.36	0.02	0.36
(1,5028)	1:38:A:ILE:HG23	1:40:A:LEU:HG	10	0.36	0.02	0.36
(1,2445)	1:157:A:ILE:HG22	1:157:A:ILE:HG21	10	0.36	0.0	0.36
(1,2445)	1:157:A:ILE:HG21	1:157:A:ILE:HG23	10	0.36	0.0	0.36
(1,2445)	1:157:A:ILE:HG22	1:157:A:ILE:HG23	10	0.36	0.0	0.36
(1,7212)	1:157:A:ILE:HG22	1:157:A:ILE:HG21	10	0.36	0.0	0.36
(1,7212)	1:157:A:ILE:HG21	1:157:A:ILE:HG23	10	0.36	0.0	0.36
(1,7212)	1:157:A:ILE:HG22	1:157:A:ILE:HG23	10	0.36	0.0	0.36
(1,1521)	1:100:A:ALA:HB3	1:99:A:ASP:HA	10	0.36	0.05	0.36
(1,1521)	1:100:A:ALA:HB2	1:99:A:ASP:HA	10	0.36	0.05	0.36
(1,1521)	1:100:A:ALA:HB1	1:99:A:ASP:HA	10	0.36	0.05	0.36
(1,6288)	1:100:A:ALA:HB3	1:99:A:ASP:HA	10	0.36	0.05	0.36
(1,6288)	1:100:A:ALA:HB2	1:99:A:ASP:HA	10	0.36	0.05	0.36
(1,6288)	1:100:A:ALA:HB1	1:99:A:ASP:HA	10	0.36	0.05	0.36
(1,4461)	1:76:A:LEU:HD12	1:131:A:LEU:HA	10	0.36	0.03	0.37
(1,4461)	1:76:A:LEU:HD11	1:131:A:LEU:HA	10	0.36	0.03	0.37
(1,4461)	1:76:A:LEU:HD13	1:131:A:LEU:HA	10	0.36	0.03	0.37
(1,4640)	1:76:A:LEU:HD12	1:131:A:LEU:HA	10	0.36	0.03	0.37
(1,4640)	1:76:A:LEU:HD11	1:131:A:LEU:HA	10	0.36	0.03	0.37
(1,4640)	1:76:A:LEU:HD13	1:131:A:LEU:HA	10	0.36	0.03	0.37
(1,2307)	1:152:A:LEU:HD11	1:152:A:LEU:HD13	10	0.36	0.0	0.36
(1,2307)	1:152:A:LEU:HD12	1:152:A:LEU:HD11	10	0.36	0.0	0.36
(1,2307)	1:152:A:LEU:HD12	1:152:A:LEU:HD13	10	0.36	0.0	0.36
(1,7074)	1:152:A:LEU:HD11	1:152:A:LEU:HD13	10	0.36	0.0	0.36
(1,7074)	1:152:A:LEU:HD12	1:152:A:LEU:HD11	10	0.36	0.0	0.36
(1,7074)	1:152:A:LEU:HD12	1:152:A:LEU:HD13	10	0.36	0.0	0.36
(1,770)	1:66:A:ILE:HA	1:66:A:ILE:HD11	10	0.36	0.04	0.37
(1,770)	1:66:A:ILE:HA	1:66:A:ILE:HD12	10	0.36	0.04	0.37
(1,770)	1:66:A:ILE:HA	1:66:A:ILE:HD13	10	0.36	0.04	0.37
(1,5537)	1:66:A:ILE:HA	1:66:A:ILE:HD11	10	0.36	0.04	0.37
(1,5537)	1:66:A:ILE:HA	1:66:A:ILE:HD12	10	0.36	0.04	0.37
(1,5537)	1:66:A:ILE:HA	1:66:A:ILE:HD13	10	0.36	0.04	0.37
(1,2043)	1:135:A:THR:HG22	1:135:A:THR:HG23	10	0.36	0.0	0.36
(1,2043)	1:135:A:THR:HG21	1:135:A:THR:HG22	10	0.36	0.0	0.36
(1,2043)	1:135:A:THR:HG21	1:135:A:THR:HG23	10	0.36	0.0	0.36
(1,2316)	1:152:A:LEU:HD23	1:78:A:THR:HB	10	0.36	0.06	0.36
(1,2316)	1:152:A:LEU:HD22	1:78:A:THR:HB	10	0.36	0.06	0.36

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2316)	1:152:A:LEU:HD21	1:78:A:THR:HB	10	0.36	0.06	0.36
(1,6810)	1:135:A:THR:HG22	1:135:A:THR:HG23	10	0.36	0.0	0.36
(1,6810)	1:135:A:THR:HG21	1:135:A:THR:HG22	10	0.36	0.0	0.36
(1,6810)	1:135:A:THR:HG21	1:135:A:THR:HG23	10	0.36	0.0	0.36
(1,7083)	1:152:A:LEU:HD23	1:78:A:THR:HB	10	0.36	0.06	0.36
(1,7083)	1:152:A:LEU:HD22	1:78:A:THR:HB	10	0.36	0.06	0.36
(1,7083)	1:152:A:LEU:HD21	1:78:A:THR:HB	10	0.36	0.06	0.36
(1,2887)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	10	0.36	0.01	0.36
(1,7654)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	10	0.36	0.01	0.36
(1,1280)	1:89:A:ILE:HA	1:89:A:ILE:HD11	10	0.36	0.01	0.36
(1,1280)	1:89:A:ILE:HA	1:89:A:ILE:HD13	10	0.36	0.01	0.36
(1,1280)	1:89:A:ILE:HA	1:89:A:ILE:HD12	10	0.36	0.01	0.36
(1,6047)	1:89:A:ILE:HA	1:89:A:ILE:HD11	10	0.36	0.01	0.36
(1,6047)	1:89:A:ILE:HA	1:89:A:ILE:HD13	10	0.36	0.01	0.36
(1,6047)	1:89:A:ILE:HA	1:89:A:ILE:HD12	10	0.36	0.01	0.36
(1,105)	1:30:A:ILE:HG22	1:30:A:ILE:HG21	10	0.35	0.0	0.35
(1,105)	1:30:A:ILE:HG21	1:30:A:ILE:HG23	10	0.35	0.0	0.35
(1,105)	1:30:A:ILE:HG22	1:30:A:ILE:HG23	10	0.35	0.0	0.35
(1,422)	1:46:A:VAL:HG22	1:46:A:VAL:HG23	10	0.35	0.0	0.35
(1,422)	1:46:A:VAL:HG21	1:46:A:VAL:HG23	10	0.35	0.0	0.35
(1,422)	1:46:A:VAL:HG22	1:46:A:VAL:HG21	10	0.35	0.0	0.35
(1,4076)	1:131:A:LEU:H	1:91:A:LEU:HB3	10	0.35	0.02	0.35
(1,4872)	1:30:A:ILE:HG22	1:30:A:ILE:HG21	10	0.35	0.0	0.35
(1,4872)	1:30:A:ILE:HG21	1:30:A:ILE:HG23	10	0.35	0.0	0.35
(1,4872)	1:30:A:ILE:HG22	1:30:A:ILE:HG23	10	0.35	0.0	0.35
(1,5189)	1:46:A:VAL:HG22	1:46:A:VAL:HG23	10	0.35	0.0	0.35
(1,5189)	1:46:A:VAL:HG21	1:46:A:VAL:HG23	10	0.35	0.0	0.35
(1,5189)	1:46:A:VAL:HG22	1:46:A:VAL:HG21	10	0.35	0.0	0.35
(1,8843)	1:131:A:LEU:H	1:91:A:LEU:HB3	10	0.35	0.02	0.35
(1,2773)	1:129:A:ALA:HB2	1:115:A:TRP:HH2	10	0.35	0.05	0.36
(1,2773)	1:129:A:ALA:HB3	1:115:A:TRP:HH2	10	0.35	0.05	0.36
(1,2773)	1:129:A:ALA:HB1	1:115:A:TRP:HH2	10	0.35	0.05	0.36
(1,7540)	1:129:A:ALA:HB2	1:115:A:TRP:HH2	10	0.35	0.05	0.36
(1,7540)	1:129:A:ALA:HB3	1:115:A:TRP:HH2	10	0.35	0.05	0.36
(1,7540)	1:129:A:ALA:HB1	1:115:A:TRP:HH2	10	0.35	0.05	0.36
(1,1306)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	10	0.35	0.0	0.35
(1,1306)	1:89:A:ILE:HG22	1:89:A:ILE:HG23	10	0.35	0.0	0.35
(1,1306)	1:89:A:ILE:HG22	1:89:A:ILE:HG21	10	0.35	0.0	0.35
(1,6073)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	10	0.35	0.0	0.35
(1,6073)	1:89:A:ILE:HG22	1:89:A:ILE:HG23	10	0.35	0.0	0.35
(1,6073)	1:89:A:ILE:HG22	1:89:A:ILE:HG21	10	0.35	0.0	0.35
(1,4543)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	10	0.35	0.03	0.36

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4722)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	10	0.35	0.03	0.36
(1,106)	1:31:A:GLN:H	1:30:A:ILE:HG23	10	0.35	0.09	0.38
(1,106)	1:31:A:GLN:H	1:30:A:ILE:HG21	10	0.35	0.09	0.38
(1,106)	1:31:A:GLN:H	1:30:A:ILE:HG22	10	0.35	0.09	0.38
(1,2614)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	10	0.35	0.02	0.34
(1,4873)	1:31:A:GLN:H	1:30:A:ILE:HG23	10	0.35	0.09	0.38
(1,4873)	1:31:A:GLN:H	1:30:A:ILE:HG21	10	0.35	0.09	0.38
(1,4873)	1:31:A:GLN:H	1:30:A:ILE:HG22	10	0.35	0.09	0.38
(1,7381)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	10	0.35	0.02	0.34
(1,738)	1:64:A:ILE:HG21	1:65:A:SER:H	10	0.34	0.06	0.36
(1,738)	1:64:A:ILE:HG22	1:65:A:SER:H	10	0.34	0.06	0.36
(1,738)	1:64:A:ILE:HG23	1:65:A:SER:H	10	0.34	0.06	0.36
(1,5505)	1:64:A:ILE:HG21	1:65:A:SER:H	10	0.34	0.06	0.36
(1,5505)	1:64:A:ILE:HG22	1:65:A:SER:H	10	0.34	0.06	0.36
(1,5505)	1:64:A:ILE:HG23	1:65:A:SER:H	10	0.34	0.06	0.36
(1,4487)	1:131:A:LEU:HD12	1:137:A:GLU:HB2	10	0.34	0.05	0.34
(1,4487)	1:131:A:LEU:HD13	1:137:A:GLU:HB2	10	0.34	0.05	0.34
(1,4487)	1:131:A:LEU:HD11	1:137:A:GLU:HB2	10	0.34	0.05	0.34
(1,4666)	1:131:A:LEU:HD12	1:137:A:GLU:HB2	10	0.34	0.05	0.34
(1,4666)	1:131:A:LEU:HD13	1:137:A:GLU:HB2	10	0.34	0.05	0.34
(1,4666)	1:131:A:LEU:HD11	1:137:A:GLU:HB2	10	0.34	0.05	0.34
(1,411)	1:46:A:VAL:HG12	1:46:A:VAL:HG13	10	0.34	0.01	0.34
(1,411)	1:46:A:VAL:HG11	1:46:A:VAL:HG13	10	0.34	0.01	0.34
(1,411)	1:46:A:VAL:HG12	1:46:A:VAL:HG11	10	0.34	0.01	0.34
(1,3569)	1:78:A:THR:H	1:79:A:LEU:HD21	10	0.34	0.06	0.36
(1,3569)	1:78:A:THR:H	1:79:A:LEU:HD23	10	0.34	0.06	0.36
(1,3569)	1:78:A:THR:H	1:79:A:LEU:HD22	10	0.34	0.06	0.36
(1,5178)	1:46:A:VAL:HG12	1:46:A:VAL:HG13	10	0.34	0.01	0.34
(1,5178)	1:46:A:VAL:HG11	1:46:A:VAL:HG13	10	0.34	0.01	0.34
(1,5178)	1:46:A:VAL:HG12	1:46:A:VAL:HG11	10	0.34	0.01	0.34
(1,8336)	1:78:A:THR:H	1:79:A:LEU:HD21	10	0.34	0.06	0.36
(1,8336)	1:78:A:THR:H	1:79:A:LEU:HD23	10	0.34	0.06	0.36
(1,8336)	1:78:A:THR:H	1:79:A:LEU:HD22	10	0.34	0.06	0.36
(1,928)	1:73:A:ALA:HB2	1:73:A:ALA:HB1	10	0.34	0.01	0.34
(1,928)	1:73:A:ALA:HB2	1:73:A:ALA:HB3	10	0.34	0.01	0.34
(1,928)	1:73:A:ALA:HB1	1:73:A:ALA:HB3	10	0.34	0.01	0.34
(1,1950)	1:131:A:LEU:HD21	1:131:A:LEU:HD23	10	0.34	0.0	0.34
(1,1950)	1:131:A:LEU:HD22	1:131:A:LEU:HD23	10	0.34	0.0	0.34
(1,5695)	1:73:A:ALA:HB2	1:73:A:ALA:HB1	10	0.34	0.01	0.34
(1,5695)	1:73:A:ALA:HB2	1:73:A:ALA:HB3	10	0.34	0.01	0.34
(1,5695)	1:73:A:ALA:HB1	1:73:A:ALA:HB3	10	0.34	0.01	0.34
(1,6717)	1:131:A:LEU:HD21	1:131:A:LEU:HD23	10	0.34	0.0	0.34

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6717)	1:131:A:LEU:HD22	1:131:A:LEU:HD23	10	0.34	0.0	0.34
(1,3976)	1:118:A:GLN:H	1:118:A:GLN:HG2	10	0.34	0.03	0.33
(1,8743)	1:118:A:GLN:H	1:118:A:GLN:HG2	10	0.34	0.03	0.33
(1,366)	1:45:A:LYS:H	1:44:A:ILE:HD11	10	0.34	0.02	0.34
(1,366)	1:45:A:LYS:H	1:44:A:ILE:HD13	10	0.34	0.02	0.34
(1,366)	1:45:A:LYS:H	1:44:A:ILE:HD12	10	0.34	0.02	0.34
(1,473)	1:49:A:ILE:HD12	1:49:A:ILE:HD11	10	0.34	0.01	0.34
(1,473)	1:49:A:ILE:HD12	1:49:A:ILE:HD13	10	0.34	0.01	0.34
(1,473)	1:49:A:ILE:HD11	1:49:A:ILE:HD13	10	0.34	0.01	0.34
(1,5133)	1:45:A:LYS:H	1:44:A:ILE:HD11	10	0.34	0.02	0.34
(1,5133)	1:45:A:LYS:H	1:44:A:ILE:HD13	10	0.34	0.02	0.34
(1,5133)	1:45:A:LYS:H	1:44:A:ILE:HD12	10	0.34	0.02	0.34
(1,5240)	1:49:A:ILE:HD12	1:49:A:ILE:HD11	10	0.34	0.01	0.34
(1,5240)	1:49:A:ILE:HD12	1:49:A:ILE:HD13	10	0.34	0.01	0.34
(1,5240)	1:49:A:ILE:HD11	1:49:A:ILE:HD13	10	0.34	0.01	0.34
(1,2439)	1:157:A:ILE:HG21	1:23:A:ASP:HA	10	0.34	0.08	0.34
(1,2439)	1:157:A:ILE:HG22	1:23:A:ASP:HA	10	0.34	0.08	0.34
(1,2439)	1:157:A:ILE:HG23	1:23:A:ASP:HA	10	0.34	0.08	0.34
(1,7206)	1:157:A:ILE:HG21	1:23:A:ASP:HA	10	0.34	0.08	0.34
(1,7206)	1:157:A:ILE:HG22	1:23:A:ASP:HA	10	0.34	0.08	0.34
(1,7206)	1:157:A:ILE:HG23	1:23:A:ASP:HA	10	0.34	0.08	0.34
(1,4446)	1:66:A:ILE:HD11	1:136:A:GLY:HA2	10	0.33	0.07	0.34
(1,4446)	1:66:A:ILE:HD12	1:136:A:GLY:HA2	10	0.33	0.07	0.34
(1,4446)	1:66:A:ILE:HD13	1:136:A:GLY:HA2	10	0.33	0.07	0.34
(1,4625)	1:66:A:ILE:HD11	1:136:A:GLY:HA2	10	0.33	0.07	0.34
(1,4625)	1:66:A:ILE:HD12	1:136:A:GLY:HA2	10	0.33	0.07	0.34
(1,4625)	1:66:A:ILE:HD13	1:136:A:GLY:HA2	10	0.33	0.07	0.34
(1,3899)	1:110:A:MET:H	1:103:A:LYS:HG2	10	0.33	0.07	0.31
(1,8666)	1:110:A:MET:H	1:103:A:LYS:HG2	10	0.33	0.07	0.31
(1,83)	1:30:A:ILE:HD11	1:30:A:ILE:HA	10	0.33	0.02	0.34
(1,83)	1:30:A:ILE:HD13	1:30:A:ILE:HA	10	0.33	0.02	0.34
(1,83)	1:30:A:ILE:HD12	1:30:A:ILE:HA	10	0.33	0.02	0.34
(1,4850)	1:30:A:ILE:HD11	1:30:A:ILE:HA	10	0.33	0.02	0.34
(1,4850)	1:30:A:ILE:HD13	1:30:A:ILE:HA	10	0.33	0.02	0.34
(1,4850)	1:30:A:ILE:HD12	1:30:A:ILE:HA	10	0.33	0.02	0.34
(1,535)	1:52:A:VAL:HB	1:49:A:ILE:HG12	10	0.33	0.01	0.33
(1,1827)	1:97:A:THR:HG23	1:125:A:VAL:HB	10	0.33	0.15	0.3
(1,1827)	1:97:A:THR:HG22	1:125:A:VAL:HB	10	0.33	0.15	0.3
(1,1827)	1:97:A:THR:HG21	1:125:A:VAL:HB	10	0.33	0.15	0.3
(1,5302)	1:52:A:VAL:HB	1:49:A:ILE:HG12	10	0.33	0.01	0.33
(1,6594)	1:97:A:THR:HG23	1:125:A:VAL:HB	10	0.33	0.15	0.3
(1,6594)	1:97:A:THR:HG22	1:125:A:VAL:HB	10	0.33	0.15	0.3

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6594)	1:97:A:THR:HG21	1:125:A:VAL:HB	10	0.33	0.15	0.3
(1,507)	1:50:A:GLU:HA	1:53:A:ARG:HB2	10	0.33	0.02	0.33
(1,5274)	1:50:A:GLU:HA	1:53:A:ARG:HB2	10	0.33	0.02	0.33
(1,1853)	1:127:A:THR:HG22	1:127:A:THR:HG23	10	0.33	0.0	0.33
(1,1853)	1:127:A:THR:HG21	1:127:A:THR:HG22	10	0.33	0.0	0.33
(1,1853)	1:127:A:THR:HG21	1:127:A:THR:HG23	10	0.33	0.0	0.33
(1,6620)	1:127:A:THR:HG22	1:127:A:THR:HG23	10	0.33	0.0	0.33
(1,6620)	1:127:A:THR:HG21	1:127:A:THR:HG22	10	0.33	0.0	0.33
(1,6620)	1:127:A:THR:HG21	1:127:A:THR:HG23	10	0.33	0.0	0.33
(1,1883)	1:129:A:ALA:HB2	1:104:A:TRP:HH2	10	0.33	0.08	0.31
(1,1883)	1:129:A:ALA:HB1	1:104:A:TRP:HH2	10	0.33	0.08	0.31
(1,1883)	1:129:A:ALA:HB3	1:104:A:TRP:HH2	10	0.33	0.08	0.31
(1,6650)	1:129:A:ALA:HB2	1:104:A:TRP:HH2	10	0.33	0.08	0.31
(1,6650)	1:129:A:ALA:HB1	1:104:A:TRP:HH2	10	0.33	0.08	0.31
(1,6650)	1:129:A:ALA:HB3	1:104:A:TRP:HH2	10	0.33	0.08	0.31
(1,1173)	1:82:A:GLN:HG2	1:78:A:THR:HG23	10	0.33	0.08	0.3
(1,1173)	1:82:A:GLN:HG2	1:78:A:THR:HG21	10	0.33	0.08	0.3
(1,1173)	1:82:A:GLN:HG2	1:78:A:THR:HG22	10	0.33	0.08	0.3
(1,1331)	1:90:A:LEU:HD11	1:90:A:LEU:HD13	10	0.33	0.01	0.33
(1,1331)	1:90:A:LEU:HD12	1:90:A:LEU:HD11	10	0.33	0.01	0.33
(1,1331)	1:90:A:LEU:HD12	1:90:A:LEU:HD13	10	0.33	0.01	0.33
(1,5940)	1:82:A:GLN:HG2	1:78:A:THR:HG23	10	0.33	0.08	0.3
(1,5940)	1:82:A:GLN:HG2	1:78:A:THR:HG21	10	0.33	0.08	0.3
(1,5940)	1:82:A:GLN:HG2	1:78:A:THR:HG22	10	0.33	0.08	0.3
(1,6098)	1:90:A:LEU:HD11	1:90:A:LEU:HD13	10	0.33	0.01	0.33
(1,6098)	1:90:A:LEU:HD12	1:90:A:LEU:HD11	10	0.33	0.01	0.33
(1,6098)	1:90:A:LEU:HD12	1:90:A:LEU:HD13	10	0.33	0.01	0.33
(1,542)	1:51:A:ASP:HB3	1:52:A:VAL:HG13	10	0.33	0.02	0.32
(1,542)	1:51:A:ASP:HB3	1:52:A:VAL:HG11	10	0.33	0.02	0.32
(1,542)	1:51:A:ASP:HB3	1:52:A:VAL:HG12	10	0.33	0.02	0.32
(1,587)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	10	0.33	0.06	0.34
(1,706)	1:64:A:ILE:HD13	1:130:A:PHE:HA	10	0.33	0.09	0.32
(1,706)	1:64:A:ILE:HD11	1:130:A:PHE:HA	10	0.33	0.09	0.32
(1,706)	1:64:A:ILE:HD12	1:130:A:PHE:HA	10	0.33	0.09	0.32
(1,2308)	1:152:A:LEU:HD12	1:153:A:CYS:HB2	10	0.33	0.06	0.32
(1,2308)	1:152:A:LEU:HD13	1:153:A:CYS:HB2	10	0.33	0.06	0.32
(1,2308)	1:152:A:LEU:HD11	1:153:A:CYS:HB2	10	0.33	0.06	0.32
(1,5309)	1:51:A:ASP:HB3	1:52:A:VAL:HG13	10	0.33	0.02	0.32
(1,5309)	1:51:A:ASP:HB3	1:52:A:VAL:HG11	10	0.33	0.02	0.32
(1,5309)	1:51:A:ASP:HB3	1:52:A:VAL:HG12	10	0.33	0.02	0.32
(1,5354)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	10	0.33	0.06	0.34
(1,5473)	1:64:A:ILE:HD13	1:130:A:PHE:HA	10	0.33	0.09	0.32

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5473)	1:64:A:ILE:HD11	1:130:A:PHE:HA	10	0.33	0.09	0.32
(1,5473)	1:64:A:ILE:HD12	1:130:A:PHE:HA	10	0.33	0.09	0.32
(1,7075)	1:152:A:LEU:HD12	1:153:A:CYS:HB2	10	0.33	0.06	0.32
(1,7075)	1:152:A:LEU:HD13	1:153:A:CYS:HB2	10	0.33	0.06	0.32
(1,7075)	1:152:A:LEU:HD11	1:153:A:CYS:HB2	10	0.33	0.06	0.32
(1,4520)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	10	0.32	0.08	0.29
(1,4520)	1:93:A:MET:HB2	1:94:A:PHE:HD1	10	0.32	0.08	0.29
(1,4699)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	10	0.32	0.08	0.29
(1,4699)	1:93:A:MET:HB2	1:94:A:PHE:HD1	10	0.32	0.08	0.29
(1,4578)	1:131:A:LEU:H	1:131:A:LEU:HG	10	0.32	0.02	0.32
(1,4757)	1:131:A:LEU:H	1:131:A:LEU:HG	10	0.32	0.02	0.32
(1,397)	1:45:A:LYS:HG3	1:46:A:VAL:HG22	10	0.32	0.1	0.32
(1,397)	1:45:A:LYS:HG3	1:46:A:VAL:HG23	10	0.32	0.1	0.32
(1,397)	1:45:A:LYS:HG3	1:46:A:VAL:HG21	10	0.32	0.1	0.32
(1,2636)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	10	0.32	0.04	0.32
(1,2636)	1:83:A:TRP:HH2	1:37:A:TYR:HD1	10	0.32	0.04	0.32
(1,5164)	1:45:A:LYS:HG3	1:46:A:VAL:HG22	10	0.32	0.1	0.32
(1,5164)	1:45:A:LYS:HG3	1:46:A:VAL:HG23	10	0.32	0.1	0.32
(1,5164)	1:45:A:LYS:HG3	1:46:A:VAL:HG21	10	0.32	0.1	0.32
(1,7403)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	10	0.32	0.04	0.32
(1,7403)	1:83:A:TRP:HH2	1:37:A:TYR:HD1	10	0.32	0.04	0.32
(1,1283)	1:89:A:ILE:HD13	1:130:A:PHE:HA	10	0.32	0.03	0.32
(1,1283)	1:89:A:ILE:HD12	1:130:A:PHE:HA	10	0.32	0.03	0.32
(1,1283)	1:89:A:ILE:HD11	1:130:A:PHE:HA	10	0.32	0.03	0.32
(1,6050)	1:89:A:ILE:HD13	1:130:A:PHE:HA	10	0.32	0.03	0.32
(1,6050)	1:89:A:ILE:HD12	1:130:A:PHE:HA	10	0.32	0.03	0.32
(1,6050)	1:89:A:ILE:HD11	1:130:A:PHE:HA	10	0.32	0.03	0.32
(1,231)	1:38:A:ILE:HA	1:38:A:ILE:HD13	10	0.32	0.03	0.32
(1,231)	1:38:A:ILE:HA	1:38:A:ILE:HD12	10	0.32	0.03	0.32
(1,231)	1:38:A:ILE:HA	1:38:A:ILE:HD11	10	0.32	0.03	0.32
(1,4998)	1:38:A:ILE:HA	1:38:A:ILE:HD13	10	0.32	0.03	0.32
(1,4998)	1:38:A:ILE:HA	1:38:A:ILE:HD12	10	0.32	0.03	0.32
(1,4998)	1:38:A:ILE:HA	1:38:A:ILE:HD11	10	0.32	0.03	0.32
(1,4216)	1:140:A:LYS:H	1:124:A:LEU:HD23	10	0.32	0.14	0.32
(1,4216)	1:140:A:LYS:H	1:124:A:LEU:HD22	10	0.32	0.14	0.32
(1,4216)	1:140:A:LYS:H	1:124:A:LEU:HD21	10	0.32	0.14	0.32
(1,8983)	1:140:A:LYS:H	1:124:A:LEU:HD23	10	0.32	0.14	0.32
(1,8983)	1:140:A:LYS:H	1:124:A:LEU:HD22	10	0.32	0.14	0.32
(1,8983)	1:140:A:LYS:H	1:124:A:LEU:HD21	10	0.32	0.14	0.32
(1,2610)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	10	0.32	0.0	0.32
(1,7377)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	10	0.32	0.0	0.32
(1,443)	1:48:A:SER:HA	1:49:A:ILE:HG23	10	0.32	0.02	0.31

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,443)	1:48:A:SER:HA	1:49:A:ILE:HG22	10	0.32	0.02	0.31
(1,443)	1:48:A:SER:HA	1:49:A:ILE:HG21	10	0.32	0.02	0.31
(1,5210)	1:48:A:SER:HA	1:49:A:ILE:HG23	10	0.32	0.02	0.31
(1,5210)	1:48:A:SER:HA	1:49:A:ILE:HG22	10	0.32	0.02	0.31
(1,5210)	1:48:A:SER:HA	1:49:A:ILE:HG21	10	0.32	0.02	0.31
(1,2585)	1:59:A:HIS:HD2	1:38:A:ILE:HD12	10	0.32	0.04	0.33
(1,2585)	1:59:A:HIS:HD2	1:38:A:ILE:HD11	10	0.32	0.04	0.33
(1,2585)	1:59:A:HIS:HD2	1:38:A:ILE:HD13	10	0.32	0.04	0.33
(1,7352)	1:59:A:HIS:HD2	1:38:A:ILE:HD12	10	0.32	0.04	0.33
(1,7352)	1:59:A:HIS:HD2	1:38:A:ILE:HD11	10	0.32	0.04	0.33
(1,7352)	1:59:A:HIS:HD2	1:38:A:ILE:HD13	10	0.32	0.04	0.33
(1,4052)	1:129:A:ALA:H	1:90:A:LEU:HD11	10	0.32	0.05	0.33
(1,4052)	1:129:A:ALA:H	1:90:A:LEU:HD12	10	0.32	0.05	0.33
(1,4052)	1:129:A:ALA:H	1:90:A:LEU:HD13	10	0.32	0.05	0.33
(1,8819)	1:129:A:ALA:H	1:90:A:LEU:HD11	10	0.32	0.05	0.33
(1,8819)	1:129:A:ALA:H	1:90:A:LEU:HD12	10	0.32	0.05	0.33
(1,8819)	1:129:A:ALA:H	1:90:A:LEU:HD13	10	0.32	0.05	0.33
(1,3843)	1:105:A:PHE:H	1:105:A:PHE:HD1	10	0.31	0.03	0.3
(1,8610)	1:105:A:PHE:H	1:105:A:PHE:HD1	10	0.31	0.03	0.3
(1,4491)	1:134:A:LYS:HA	1:76:A:LEU:HG	10	0.31	0.07	0.32
(1,4491)	1:134:A:LYS:HA	1:133:A:ILE:HB	10	0.31	0.07	0.32
(1,4670)	1:134:A:LYS:HA	1:76:A:LEU:HG	10	0.31	0.07	0.32
(1,4670)	1:134:A:LYS:HA	1:133:A:ILE:HB	10	0.31	0.07	0.32
(1,1273)	1:89:A:ILE:HB	1:89:A:ILE:HD11	10	0.31	0.01	0.31
(1,1273)	1:89:A:ILE:HB	1:89:A:ILE:HD13	10	0.31	0.01	0.31
(1,1273)	1:89:A:ILE:HB	1:89:A:ILE:HD12	10	0.31	0.01	0.31
(1,3168)	1:49:A:ILE:H	1:52:A:VAL:HG13	10	0.31	0.01	0.31
(1,3168)	1:49:A:ILE:H	1:52:A:VAL:HG11	10	0.31	0.01	0.31
(1,3168)	1:49:A:ILE:H	1:52:A:VAL:HG12	10	0.31	0.01	0.31
(1,6040)	1:89:A:ILE:HB	1:89:A:ILE:HD11	10	0.31	0.01	0.31
(1,6040)	1:89:A:ILE:HB	1:89:A:ILE:HD13	10	0.31	0.01	0.31
(1,6040)	1:89:A:ILE:HB	1:89:A:ILE:HD12	10	0.31	0.01	0.31
(1,7935)	1:49:A:ILE:H	1:52:A:VAL:HG13	10	0.31	0.01	0.31
(1,7935)	1:49:A:ILE:H	1:52:A:VAL:HG11	10	0.31	0.01	0.31
(1,7935)	1:49:A:ILE:H	1:52:A:VAL:HG12	10	0.31	0.01	0.31
(1,279)	1:38:A:ILE:HG21	1:40:A:LEU:HB2	10	0.31	0.03	0.31
(1,279)	1:38:A:ILE:HG22	1:40:A:LEU:HB2	10	0.31	0.03	0.31
(1,279)	1:38:A:ILE:HG23	1:40:A:LEU:HB2	10	0.31	0.03	0.31
(1,5046)	1:38:A:ILE:HG21	1:40:A:LEU:HB2	10	0.31	0.03	0.31
(1,5046)	1:38:A:ILE:HG22	1:40:A:LEU:HB2	10	0.31	0.03	0.31
(1,5046)	1:38:A:ILE:HG23	1:40:A:LEU:HB2	10	0.31	0.03	0.31
(1,3267)	1:55:A:GLN:HE22	1:40:A:LEU:HD22	10	0.31	0.08	0.3

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3267)	1:55:A:GLN:HE22	1:40:A:LEU:HD23	10	0.31	0.08	0.3
(1,3267)	1:55:A:GLN:HE22	1:40:A:LEU:HD21	10	0.31	0.08	0.3
(1,8034)	1:55:A:GLN:HE22	1:40:A:LEU:HD22	10	0.31	0.08	0.3
(1,8034)	1:55:A:GLN:HE22	1:40:A:LEU:HD23	10	0.31	0.08	0.3
(1,8034)	1:55:A:GLN:HE22	1:40:A:LEU:HD21	10	0.31	0.08	0.3
(1,211)	1:37:A:TYR:HB2	1:152:A:LEU:HD23	10	0.3	0.06	0.32
(1,211)	1:37:A:TYR:HB2	1:152:A:LEU:HD22	10	0.3	0.06	0.32
(1,211)	1:37:A:TYR:HB2	1:152:A:LEU:HD21	10	0.3	0.06	0.32
(1,4978)	1:37:A:TYR:HB2	1:152:A:LEU:HD23	10	0.3	0.06	0.32
(1,4978)	1:37:A:TYR:HB2	1:152:A:LEU:HD22	10	0.3	0.06	0.32
(1,4978)	1:37:A:TYR:HB2	1:152:A:LEU:HD21	10	0.3	0.06	0.32
(1,640)	1:56:A:CYS:HB2	1:61:A:ALA:HB3	10	0.3	0.03	0.32
(1,640)	1:56:A:CYS:HB2	1:61:A:ALA:HB1	10	0.3	0.03	0.32
(1,640)	1:56:A:CYS:HB2	1:61:A:ALA:HB2	10	0.3	0.03	0.32
(1,5407)	1:56:A:CYS:HB2	1:61:A:ALA:HB3	10	0.3	0.03	0.32
(1,5407)	1:56:A:CYS:HB2	1:61:A:ALA:HB1	10	0.3	0.03	0.32
(1,5407)	1:56:A:CYS:HB2	1:61:A:ALA:HB2	10	0.3	0.03	0.32
(1,428)	1:46:A:VAL:HG22	1:146:A:SER:HB3	10	0.3	0.01	0.3
(1,428)	1:46:A:VAL:HG23	1:146:A:SER:HB3	10	0.3	0.01	0.3
(1,428)	1:46:A:VAL:HG21	1:146:A:SER:HB3	10	0.3	0.01	0.3
(1,2712)	1:104:A:TRP:HE3	1:64:A:ILE:HG21	10	0.3	0.04	0.31
(1,2712)	1:104:A:TRP:HE3	1:64:A:ILE:HG22	10	0.3	0.04	0.31
(1,2712)	1:104:A:TRP:HE3	1:64:A:ILE:HG23	10	0.3	0.04	0.31
(1,5195)	1:46:A:VAL:HG22	1:146:A:SER:HB3	10	0.3	0.01	0.3
(1,5195)	1:46:A:VAL:HG23	1:146:A:SER:HB3	10	0.3	0.01	0.3
(1,5195)	1:46:A:VAL:HG21	1:146:A:SER:HB3	10	0.3	0.01	0.3
(1,7479)	1:104:A:TRP:HE3	1:64:A:ILE:HG21	10	0.3	0.04	0.31
(1,7479)	1:104:A:TRP:HE3	1:64:A:ILE:HG22	10	0.3	0.04	0.31
(1,7479)	1:104:A:TRP:HE3	1:64:A:ILE:HG23	10	0.3	0.04	0.31
(1,2321)	1:152:A:LEU:HD21	1:152:A:LEU:HD23	10	0.3	0.01	0.3
(1,2321)	1:152:A:LEU:HD22	1:152:A:LEU:HD23	10	0.3	0.01	0.3
(1,2321)	1:152:A:LEU:HD22	1:152:A:LEU:HD21	10	0.3	0.01	0.3
(1,7088)	1:152:A:LEU:HD21	1:152:A:LEU:HD23	10	0.3	0.01	0.3
(1,7088)	1:152:A:LEU:HD22	1:152:A:LEU:HD23	10	0.3	0.01	0.3
(1,7088)	1:152:A:LEU:HD22	1:152:A:LEU:HD21	10	0.3	0.01	0.3
(1,1520)	1:99:A:ASP:H	1:100:A:ALA:HB1	10	0.3	0.07	0.29
(1,1520)	1:99:A:ASP:H	1:100:A:ALA:HB3	10	0.3	0.07	0.29
(1,1520)	1:99:A:ASP:H	1:100:A:ALA:HB2	10	0.3	0.07	0.29
(1,6287)	1:99:A:ASP:H	1:100:A:ALA:HB1	10	0.3	0.07	0.29
(1,6287)	1:99:A:ASP:H	1:100:A:ALA:HB3	10	0.3	0.07	0.29
(1,6287)	1:99:A:ASP:H	1:100:A:ALA:HB2	10	0.3	0.07	0.29
(1,230)	1:38:A:ILE:H	1:38:A:ILE:HD12	10	0.29	0.02	0.3

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,230)	1:38:A:ILE:H	1:38:A:ILE:HD11	10	0.29	0.02	0.3
(1,230)	1:38:A:ILE:H	1:38:A:ILE:HD13	10	0.29	0.02	0.3
(1,4997)	1:38:A:ILE:H	1:38:A:ILE:HD12	10	0.29	0.02	0.3
(1,4997)	1:38:A:ILE:H	1:38:A:ILE:HD11	10	0.29	0.02	0.3
(1,4997)	1:38:A:ILE:H	1:38:A:ILE:HD13	10	0.29	0.02	0.3
(1,803)	1:66:A:ILE:HG22	1:66:A:ILE:HG21	10	0.29	0.0	0.29
(1,803)	1:66:A:ILE:HG22	1:66:A:ILE:HG23	10	0.29	0.0	0.29
(1,803)	1:66:A:ILE:HG21	1:66:A:ILE:HG23	10	0.29	0.0	0.29
(1,5570)	1:66:A:ILE:HG22	1:66:A:ILE:HG21	10	0.29	0.0	0.29
(1,5570)	1:66:A:ILE:HG22	1:66:A:ILE:HG23	10	0.29	0.0	0.29
(1,5570)	1:66:A:ILE:HG21	1:66:A:ILE:HG23	10	0.29	0.0	0.29
(1,1033)	1:76:A:LEU:HG	1:131:A:LEU:HD23	10	0.29	0.01	0.29
(1,1033)	1:76:A:LEU:HG	1:131:A:LEU:HD21	10	0.29	0.01	0.29
(1,1033)	1:76:A:LEU:HG	1:131:A:LEU:HD22	10	0.29	0.01	0.29
(1,1079)	1:83:A:TRP:H	1:79:A:LEU:HD13	10	0.29	0.05	0.3
(1,1079)	1:83:A:TRP:H	1:79:A:LEU:HD11	10	0.29	0.05	0.3
(1,1079)	1:83:A:TRP:H	1:79:A:LEU:HD12	10	0.29	0.05	0.3
(1,5800)	1:76:A:LEU:HG	1:131:A:LEU:HD23	10	0.29	0.01	0.29
(1,5800)	1:76:A:LEU:HG	1:131:A:LEU:HD21	10	0.29	0.01	0.29
(1,5800)	1:76:A:LEU:HG	1:131:A:LEU:HD22	10	0.29	0.01	0.29
(1,5846)	1:83:A:TRP:H	1:79:A:LEU:HD13	10	0.29	0.05	0.3
(1,5846)	1:83:A:TRP:H	1:79:A:LEU:HD11	10	0.29	0.05	0.3
(1,5846)	1:83:A:TRP:H	1:79:A:LEU:HD12	10	0.29	0.05	0.3
(1,3187)	1:51:A:ASP:H	1:49:A:ILE:HG22	10	0.29	0.04	0.3
(1,3187)	1:51:A:ASP:H	1:49:A:ILE:HG21	10	0.29	0.04	0.3
(1,3187)	1:51:A:ASP:H	1:49:A:ILE:HG23	10	0.29	0.04	0.3
(1,7954)	1:51:A:ASP:H	1:49:A:ILE:HG22	10	0.29	0.04	0.3
(1,7954)	1:51:A:ASP:H	1:49:A:ILE:HG21	10	0.29	0.04	0.3
(1,7954)	1:51:A:ASP:H	1:49:A:ILE:HG23	10	0.29	0.04	0.3
(1,3504)	1:73:A:ALA:H	1:76:A:LEU:HD13	10	0.28	0.04	0.29
(1,3504)	1:73:A:ALA:H	1:76:A:LEU:HD12	10	0.28	0.04	0.29
(1,3504)	1:73:A:ALA:H	1:76:A:LEU:HD11	10	0.28	0.04	0.29
(1,8271)	1:73:A:ALA:H	1:76:A:LEU:HD13	10	0.28	0.04	0.29
(1,8271)	1:73:A:ALA:H	1:76:A:LEU:HD12	10	0.28	0.04	0.29
(1,8271)	1:73:A:ALA:H	1:76:A:LEU:HD11	10	0.28	0.04	0.29
(1,276)	1:40:A:LEU:HA	1:40:A:LEU:HD11	10	0.28	0.01	0.28
(1,276)	1:40:A:LEU:HA	1:40:A:LEU:HD13	10	0.28	0.01	0.28
(1,276)	1:40:A:LEU:HA	1:40:A:LEU:HD12	10	0.28	0.01	0.28
(1,5043)	1:40:A:LEU:HA	1:40:A:LEU:HD11	10	0.28	0.01	0.28
(1,5043)	1:40:A:LEU:HA	1:40:A:LEU:HD13	10	0.28	0.01	0.28
(1,5043)	1:40:A:LEU:HA	1:40:A:LEU:HD12	10	0.28	0.01	0.28
(1,1434)	1:93:A:MET:HA	1:91:A:LEU:HB2	10	0.28	0.02	0.27

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6201)	1:93:A:MET:HA	1:91:A:LEU:HB2	10	0.28	0.02	0.27
(1,720)	1:64:A:ILE:HD13	1:91:A:LEU:HD22	10	0.28	0.08	0.26
(1,720)	1:64:A:ILE:HD13	1:91:A:LEU:HD23	10	0.28	0.08	0.26
(1,720)	1:64:A:ILE:HD11	1:91:A:LEU:HD22	10	0.28	0.08	0.26
(1,720)	1:64:A:ILE:HD12	1:91:A:LEU:HD22	10	0.28	0.08	0.26
(1,720)	1:64:A:ILE:HD13	1:91:A:LEU:HD21	10	0.28	0.08	0.26
(1,720)	1:64:A:ILE:HD12	1:91:A:LEU:HD23	10	0.28	0.08	0.26
(1,2216)	1:145:A:VAL:HG23	1:147:A:SER:HA	10	0.28	0.02	0.28
(1,2216)	1:145:A:VAL:HG22	1:147:A:SER:HA	10	0.28	0.02	0.28
(1,2216)	1:145:A:VAL:HG21	1:147:A:SER:HA	10	0.28	0.02	0.28
(1,5487)	1:64:A:ILE:HD13	1:91:A:LEU:HD22	10	0.28	0.08	0.26
(1,5487)	1:64:A:ILE:HD13	1:91:A:LEU:HD23	10	0.28	0.08	0.26
(1,5487)	1:64:A:ILE:HD11	1:91:A:LEU:HD22	10	0.28	0.08	0.26
(1,5487)	1:64:A:ILE:HD12	1:91:A:LEU:HD22	10	0.28	0.08	0.26
(1,5487)	1:64:A:ILE:HD13	1:91:A:LEU:HD21	10	0.28	0.08	0.26
(1,5487)	1:64:A:ILE:HD12	1:91:A:LEU:HD23	10	0.28	0.08	0.26
(1,6983)	1:145:A:VAL:HG23	1:147:A:SER:HA	10	0.28	0.02	0.28
(1,6983)	1:145:A:VAL:HG22	1:147:A:SER:HA	10	0.28	0.02	0.28
(1,6983)	1:145:A:VAL:HG21	1:147:A:SER:HA	10	0.28	0.02	0.28
(1,760)	1:66:A:ILE:HA	1:154:A:LYS:HD2	10	0.28	0.09	0.26
(1,5527)	1:66:A:ILE:HA	1:154:A:LYS:HD2	10	0.28	0.09	0.26
(1,3127)	1:44:A:ILE:H	1:43:A:ALA:HB2	10	0.28	0.01	0.28
(1,3127)	1:44:A:ILE:H	1:43:A:ALA:HB3	10	0.28	0.01	0.28
(1,3127)	1:44:A:ILE:H	1:43:A:ALA:HB1	10	0.28	0.01	0.28
(1,7894)	1:44:A:ILE:H	1:43:A:ALA:HB2	10	0.28	0.01	0.28
(1,7894)	1:44:A:ILE:H	1:43:A:ALA:HB3	10	0.28	0.01	0.28
(1,7894)	1:44:A:ILE:H	1:43:A:ALA:HB1	10	0.28	0.01	0.28
(1,2009)	1:133:A:ILE:HG22	1:80:A:LYS:HG2	10	0.28	0.01	0.28
(1,2009)	1:133:A:ILE:HG23	1:80:A:LYS:HG2	10	0.28	0.01	0.28
(1,2009)	1:133:A:ILE:HG21	1:80:A:LYS:HG2	10	0.28	0.01	0.28
(1,6776)	1:133:A:ILE:HG22	1:80:A:LYS:HG2	10	0.28	0.01	0.28
(1,6776)	1:133:A:ILE:HG23	1:80:A:LYS:HG2	10	0.28	0.01	0.28
(1,6776)	1:133:A:ILE:HG21	1:80:A:LYS:HG2	10	0.28	0.01	0.28
(1,3257)	1:55:A:GLN:HE21	1:44:A:ILE:HG21	10	0.28	0.1	0.27
(1,3257)	1:55:A:GLN:HE21	1:44:A:ILE:HG23	10	0.28	0.1	0.27
(1,3257)	1:55:A:GLN:HE21	1:44:A:ILE:HG22	10	0.28	0.1	0.27
(1,8024)	1:55:A:GLN:HE21	1:44:A:ILE:HG21	10	0.28	0.1	0.27
(1,8024)	1:55:A:GLN:HE21	1:44:A:ILE:HG23	10	0.28	0.1	0.27
(1,8024)	1:55:A:GLN:HE21	1:44:A:ILE:HG22	10	0.28	0.1	0.27
(1,677)	1:63:A:MET:HE2	1:91:A:LEU:HA	10	0.27	0.05	0.3
(1,677)	1:63:A:MET:HE3	1:91:A:LEU:HA	10	0.27	0.05	0.3
(1,677)	1:63:A:MET:HE1	1:91:A:LEU:HA	10	0.27	0.05	0.3

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1021)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	10	0.27	0.05	0.26
(1,1021)	1:76:A:LEU:HD22	1:72:A:ASN:HB3	10	0.27	0.05	0.26
(1,5444)	1:63:A:MET:HE2	1:91:A:LEU:HA	10	0.27	0.05	0.3
(1,5444)	1:63:A:MET:HE3	1:91:A:LEU:HA	10	0.27	0.05	0.3
(1,5444)	1:63:A:MET:HE1	1:91:A:LEU:HA	10	0.27	0.05	0.3
(1,5788)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	10	0.27	0.05	0.26
(1,5788)	1:76:A:LEU:HD22	1:72:A:ASN:HB3	10	0.27	0.05	0.26
(1,3623)	1:83:A:TRP:HE1	1:79:A:LEU:HD13	10	0.27	0.03	0.28
(1,3623)	1:83:A:TRP:HE1	1:79:A:LEU:HD11	10	0.27	0.03	0.28
(1,3623)	1:83:A:TRP:HE1	1:79:A:LEU:HD12	10	0.27	0.03	0.28
(1,8390)	1:83:A:TRP:HE1	1:79:A:LEU:HD13	10	0.27	0.03	0.28
(1,8390)	1:83:A:TRP:HE1	1:79:A:LEU:HD11	10	0.27	0.03	0.28
(1,8390)	1:83:A:TRP:HE1	1:79:A:LEU:HD12	10	0.27	0.03	0.28
(1,1890)	1:129:A:ALA:HB3	1:130:A:PHE:HA	10	0.27	0.05	0.25
(1,1890)	1:129:A:ALA:HB2	1:130:A:PHE:HA	10	0.27	0.05	0.25
(1,4457)	1:75:A:ILE:HG21	1:64:A:ILE:HG13	10	0.27	0.07	0.29
(1,4457)	1:75:A:ILE:HG23	1:64:A:ILE:HG13	10	0.27	0.07	0.29
(1,4457)	1:75:A:ILE:HG22	1:64:A:ILE:HG13	10	0.27	0.07	0.29
(1,4636)	1:75:A:ILE:HG21	1:64:A:ILE:HG13	10	0.27	0.07	0.29
(1,4636)	1:75:A:ILE:HG23	1:64:A:ILE:HG13	10	0.27	0.07	0.29
(1,4636)	1:75:A:ILE:HG22	1:64:A:ILE:HG13	10	0.27	0.07	0.29
(1,6657)	1:129:A:ALA:HB3	1:130:A:PHE:HA	10	0.27	0.05	0.25
(1,6657)	1:129:A:ALA:HB2	1:130:A:PHE:HA	10	0.27	0.05	0.25
(1,1286)	1:89:A:ILE:HG13	1:90:A:LEU:HA	10	0.27	0.01	0.27
(1,6053)	1:89:A:ILE:HG13	1:90:A:LEU:HA	10	0.27	0.01	0.27
(1,545)	1:52:A:VAL:HG11	1:52:A:VAL:HG13	10	0.27	0.0	0.27
(1,545)	1:52:A:VAL:HG12	1:52:A:VAL:HG13	10	0.27	0.0	0.27
(1,545)	1:52:A:VAL:HG12	1:52:A:VAL:HG11	10	0.27	0.0	0.27
(1,2402)	1:155:A:THR:HG22	1:155:A:THR:HG23	10	0.27	0.0	0.27
(1,2402)	1:155:A:THR:HG21	1:155:A:THR:HG23	10	0.27	0.0	0.27
(1,2402)	1:155:A:THR:HG21	1:155:A:THR:HG22	10	0.27	0.0	0.27
(1,5312)	1:52:A:VAL:HG11	1:52:A:VAL:HG13	10	0.27	0.0	0.27
(1,5312)	1:52:A:VAL:HG12	1:52:A:VAL:HG13	10	0.27	0.0	0.27
(1,5312)	1:52:A:VAL:HG12	1:52:A:VAL:HG11	10	0.27	0.0	0.27
(1,7169)	1:155:A:THR:HG22	1:155:A:THR:HG23	10	0.27	0.0	0.27
(1,7169)	1:155:A:THR:HG21	1:155:A:THR:HG23	10	0.27	0.0	0.27
(1,7169)	1:155:A:THR:HG21	1:155:A:THR:HG22	10	0.27	0.0	0.27
(1,1769)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	10	0.26	0.06	0.26
(1,6536)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	10	0.26	0.06	0.26
(1,1945)	1:131:A:LEU:H	1:131:A:LEU:HD21	10	0.26	0.02	0.26
(1,1945)	1:131:A:LEU:H	1:131:A:LEU:HD22	10	0.26	0.02	0.26
(1,1945)	1:131:A:LEU:H	1:131:A:LEU:HD23	10	0.26	0.02	0.26

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1980)	1:133:A:ILE:HB	1:133:A:ILE:HD12	10	0.26	0.01	0.26
(1,1980)	1:133:A:ILE:HB	1:133:A:ILE:HD11	10	0.26	0.01	0.26
(1,1980)	1:133:A:ILE:HB	1:133:A:ILE:HD13	10	0.26	0.01	0.26
(1,6712)	1:131:A:LEU:H	1:131:A:LEU:HD21	10	0.26	0.02	0.26
(1,6712)	1:131:A:LEU:H	1:131:A:LEU:HD22	10	0.26	0.02	0.26
(1,6712)	1:131:A:LEU:H	1:131:A:LEU:HD23	10	0.26	0.02	0.26
(1,6747)	1:133:A:ILE:HB	1:133:A:ILE:HD12	10	0.26	0.01	0.26
(1,6747)	1:133:A:ILE:HB	1:133:A:ILE:HD11	10	0.26	0.01	0.26
(1,6747)	1:133:A:ILE:HB	1:133:A:ILE:HD13	10	0.26	0.01	0.26
(1,1983)	1:133:A:ILE:HD13	1:80:A:LYS:HE2	10	0.26	0.03	0.27
(1,1983)	1:133:A:ILE:HD12	1:80:A:LYS:HE2	10	0.26	0.03	0.27
(1,1983)	1:133:A:ILE:HD11	1:80:A:LYS:HE2	10	0.26	0.03	0.27
(1,6750)	1:133:A:ILE:HD13	1:80:A:LYS:HE2	10	0.26	0.03	0.27
(1,6750)	1:133:A:ILE:HD12	1:80:A:LYS:HE2	10	0.26	0.03	0.27
(1,6750)	1:133:A:ILE:HD11	1:80:A:LYS:HE2	10	0.26	0.03	0.27
(1,1100)	1:79:A:LEU:HD23	1:76:A:LEU:HA	10	0.26	0.01	0.26
(1,1100)	1:79:A:LEU:HD22	1:76:A:LEU:HA	10	0.26	0.01	0.26
(1,1100)	1:79:A:LEU:HD21	1:76:A:LEU:HA	10	0.26	0.01	0.26
(1,5867)	1:79:A:LEU:HD23	1:76:A:LEU:HA	10	0.26	0.01	0.26
(1,5867)	1:79:A:LEU:HD22	1:76:A:LEU:HA	10	0.26	0.01	0.26
(1,5867)	1:79:A:LEU:HD21	1:76:A:LEU:HA	10	0.26	0.01	0.26
(1,1346)	1:90:A:LEU:HD22	1:90:A:LEU:HD23	10	0.25	0.0	0.25
(1,1346)	1:90:A:LEU:HD22	1:90:A:LEU:HD21	10	0.25	0.0	0.25
(1,1346)	1:90:A:LEU:HD21	1:90:A:LEU:HD23	10	0.25	0.0	0.25
(1,6113)	1:90:A:LEU:HD22	1:90:A:LEU:HD23	10	0.25	0.0	0.25
(1,6113)	1:90:A:LEU:HD22	1:90:A:LEU:HD21	10	0.25	0.0	0.25
(1,6113)	1:90:A:LEU:HD21	1:90:A:LEU:HD23	10	0.25	0.0	0.25
(1,673)	1:63:A:MET:HE3	1:49:A:ILE:HD13	10	0.25	0.02	0.24
(1,673)	1:63:A:MET:HE1	1:49:A:ILE:HD13	10	0.25	0.02	0.24
(1,673)	1:63:A:MET:HE1	1:49:A:ILE:HD11	10	0.25	0.02	0.24
(1,673)	1:63:A:MET:HE3	1:49:A:ILE:HD11	10	0.25	0.02	0.24
(1,673)	1:63:A:MET:HE1	1:49:A:ILE:HD12	10	0.25	0.02	0.24
(1,673)	1:63:A:MET:HE2	1:49:A:ILE:HD12	10	0.25	0.02	0.24
(1,5440)	1:63:A:MET:HE3	1:49:A:ILE:HD13	10	0.25	0.02	0.24
(1,5440)	1:63:A:MET:HE1	1:49:A:ILE:HD13	10	0.25	0.02	0.24
(1,5440)	1:63:A:MET:HE1	1:49:A:ILE:HD11	10	0.25	0.02	0.24
(1,5440)	1:63:A:MET:HE3	1:49:A:ILE:HD11	10	0.25	0.02	0.24
(1,5440)	1:63:A:MET:HE1	1:49:A:ILE:HD12	10	0.25	0.02	0.24
(1,5440)	1:63:A:MET:HE2	1:49:A:ILE:HD12	10	0.25	0.02	0.24
(1,791)	1:66:A:ILE:HG13	1:66:A:ILE:HG21	10	0.25	0.02	0.24
(1,791)	1:66:A:ILE:HG13	1:66:A:ILE:HG22	10	0.25	0.02	0.24
(1,791)	1:66:A:ILE:HG13	1:66:A:ILE:HG23	10	0.25	0.02	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,798)	1:66:A:ILE:HG23	1:113:A:ASP:HA	10	0.25	0.1	0.24
(1,798)	1:66:A:ILE:HG21	1:113:A:ASP:HA	10	0.25	0.1	0.24
(1,798)	1:66:A:ILE:HG22	1:113:A:ASP:HA	10	0.25	0.1	0.24
(1,982)	1:75:A:ILE:HG22	1:75:A:ILE:HG21	10	0.25	0.01	0.24
(1,982)	1:75:A:ILE:HG21	1:75:A:ILE:HG23	10	0.25	0.01	0.24
(1,982)	1:75:A:ILE:HG22	1:75:A:ILE:HG23	10	0.25	0.01	0.24
(1,5558)	1:66:A:ILE:HG13	1:66:A:ILE:HG21	10	0.25	0.02	0.24
(1,5558)	1:66:A:ILE:HG13	1:66:A:ILE:HG22	10	0.25	0.02	0.24
(1,5558)	1:66:A:ILE:HG13	1:66:A:ILE:HG23	10	0.25	0.02	0.24
(1,5565)	1:66:A:ILE:HG23	1:113:A:ASP:HA	10	0.25	0.1	0.24
(1,5565)	1:66:A:ILE:HG21	1:113:A:ASP:HA	10	0.25	0.1	0.24
(1,5565)	1:66:A:ILE:HG22	1:113:A:ASP:HA	10	0.25	0.1	0.24
(1,5749)	1:75:A:ILE:HG22	1:75:A:ILE:HG21	10	0.25	0.01	0.24
(1,5749)	1:75:A:ILE:HG21	1:75:A:ILE:HG23	10	0.25	0.01	0.24
(1,5749)	1:75:A:ILE:HG22	1:75:A:ILE:HG23	10	0.25	0.01	0.24
(1,297)	1:40:A:LEU:HD12	1:40:A:LEU:HD11	10	0.24	0.0	0.24
(1,297)	1:40:A:LEU:HD11	1:40:A:LEU:HD13	10	0.24	0.0	0.24
(1,297)	1:40:A:LEU:HD12	1:40:A:LEU:HD13	10	0.24	0.0	0.24
(1,2330)	1:152:A:LEU:HD12	1:153:A:CYS:HA	10	0.24	0.03	0.24
(1,2330)	1:152:A:LEU:HD13	1:153:A:CYS:HA	10	0.24	0.03	0.24
(1,2330)	1:152:A:LEU:HD11	1:153:A:CYS:HA	10	0.24	0.03	0.24
(1,3697)	1:92:A:GLY:H	1:91:A:LEU:HB2	10	0.24	0.04	0.24
(1,5064)	1:40:A:LEU:HD12	1:40:A:LEU:HD11	10	0.24	0.0	0.24
(1,5064)	1:40:A:LEU:HD11	1:40:A:LEU:HD13	10	0.24	0.0	0.24
(1,5064)	1:40:A:LEU:HD12	1:40:A:LEU:HD13	10	0.24	0.0	0.24
(1,7097)	1:152:A:LEU:HD12	1:153:A:CYS:HA	10	0.24	0.03	0.24
(1,7097)	1:152:A:LEU:HD13	1:153:A:CYS:HA	10	0.24	0.03	0.24
(1,7097)	1:152:A:LEU:HD11	1:153:A:CYS:HA	10	0.24	0.03	0.24
(1,8464)	1:92:A:GLY:H	1:91:A:LEU:HB2	10	0.24	0.04	0.24
(1,3547)	1:77:A:ASP:H	1:78:A:THR:HG21	10	0.24	0.04	0.25
(1,3547)	1:77:A:ASP:H	1:78:A:THR:HG22	10	0.24	0.04	0.25
(1,3547)	1:77:A:ASP:H	1:78:A:THR:HG23	10	0.24	0.04	0.25
(1,8314)	1:77:A:ASP:H	1:78:A:THR:HG21	10	0.24	0.04	0.25
(1,8314)	1:77:A:ASP:H	1:78:A:THR:HG22	10	0.24	0.04	0.25
(1,8314)	1:77:A:ASP:H	1:78:A:THR:HG23	10	0.24	0.04	0.25
(1,1088)	1:79:A:LEU:HD12	1:79:A:LEU:HD13	10	0.24	0.0	0.24
(1,1088)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	10	0.24	0.0	0.24
(1,1889)	1:130:A:PHE:H	1:129:A:ALA:HB2	10	0.24	0.03	0.25
(1,1889)	1:130:A:PHE:H	1:129:A:ALA:HB1	10	0.24	0.03	0.25
(1,1889)	1:130:A:PHE:H	1:129:A:ALA:HB3	10	0.24	0.03	0.25
(1,5855)	1:79:A:LEU:HD12	1:79:A:LEU:HD13	10	0.24	0.0	0.24
(1,5855)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	10	0.24	0.0	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6656)	1:130:A:PHE:H	1:129:A:ALA:HB2	10	0.24	0.03	0.25
(1,6656)	1:130:A:PHE:H	1:129:A:ALA:HB1	10	0.24	0.03	0.25
(1,6656)	1:130:A:PHE:H	1:129:A:ALA:HB3	10	0.24	0.03	0.25
(1,1927)	1:131:A:LEU:HD12	1:138:A:TRP:H	10	0.24	0.06	0.24
(1,1927)	1:131:A:LEU:HD13	1:138:A:TRP:H	10	0.24	0.06	0.24
(1,1927)	1:131:A:LEU:HD11	1:138:A:TRP:H	10	0.24	0.06	0.24
(1,6694)	1:131:A:LEU:HD12	1:138:A:TRP:H	10	0.24	0.06	0.24
(1,6694)	1:131:A:LEU:HD13	1:138:A:TRP:H	10	0.24	0.06	0.24
(1,6694)	1:131:A:LEU:HD11	1:138:A:TRP:H	10	0.24	0.06	0.24
(1,619)	1:57:A:THR:HG21	1:61:A:ALA:H	10	0.24	0.06	0.24
(1,619)	1:57:A:THR:HG22	1:61:A:ALA:H	10	0.24	0.06	0.24
(1,619)	1:57:A:THR:HG23	1:61:A:ALA:H	10	0.24	0.06	0.24
(1,5386)	1:57:A:THR:HG21	1:61:A:ALA:H	10	0.24	0.06	0.24
(1,5386)	1:57:A:THR:HG22	1:61:A:ALA:H	10	0.24	0.06	0.24
(1,5386)	1:57:A:THR:HG23	1:61:A:ALA:H	10	0.24	0.06	0.24
(1,4582)	1:138:A:TRP:H	1:114:A:LYS:HE3	10	0.24	0.03	0.24
(1,4582)	1:138:A:TRP:H	1:115:A:TRP:HB2	10	0.24	0.03	0.24
(1,4761)	1:138:A:TRP:H	1:114:A:LYS:HE3	10	0.24	0.03	0.24
(1,4761)	1:138:A:TRP:H	1:115:A:TRP:HB2	10	0.24	0.03	0.24
(1,369)	1:44:A:ILE:HD12	1:44:A:ILE:HG12	10	0.24	0.0	0.24
(1,369)	1:44:A:ILE:HD11	1:44:A:ILE:HG12	10	0.24	0.0	0.24
(1,369)	1:44:A:ILE:HD13	1:44:A:ILE:HG12	10	0.24	0.0	0.24
(1,5136)	1:44:A:ILE:HD12	1:44:A:ILE:HG12	10	0.24	0.0	0.24
(1,5136)	1:44:A:ILE:HD11	1:44:A:ILE:HG12	10	0.24	0.0	0.24
(1,5136)	1:44:A:ILE:HD13	1:44:A:ILE:HG12	10	0.24	0.0	0.24
(1,2291)	1:37:A:TYR:HB2	1:152:A:LEU:HD13	10	0.24	0.02	0.23
(1,2291)	1:37:A:TYR:HB2	1:152:A:LEU:HD11	10	0.24	0.02	0.23
(1,2291)	1:37:A:TYR:HB2	1:152:A:LEU:HD12	10	0.24	0.02	0.23
(1,7058)	1:37:A:TYR:HB2	1:152:A:LEU:HD13	10	0.24	0.02	0.23
(1,7058)	1:37:A:TYR:HB2	1:152:A:LEU:HD11	10	0.24	0.02	0.23
(1,7058)	1:37:A:TYR:HB2	1:152:A:LEU:HD12	10	0.24	0.02	0.23
(1,3567)	1:78:A:THR:H	1:78:A:THR:HG21	10	0.23	0.02	0.24
(1,3567)	1:78:A:THR:H	1:78:A:THR:HG22	10	0.23	0.02	0.24
(1,3567)	1:78:A:THR:H	1:78:A:THR:HG23	10	0.23	0.02	0.24
(1,8334)	1:78:A:THR:H	1:78:A:THR:HG21	10	0.23	0.02	0.24
(1,8334)	1:78:A:THR:H	1:78:A:THR:HG22	10	0.23	0.02	0.24
(1,8334)	1:78:A:THR:H	1:78:A:THR:HG23	10	0.23	0.02	0.24
(1,1884)	1:128:A:CYS:HA	1:129:A:ALA:HB1	10	0.23	0.07	0.22
(1,1884)	1:128:A:CYS:HA	1:129:A:ALA:HB3	10	0.23	0.07	0.22
(1,1884)	1:128:A:CYS:HA	1:129:A:ALA:HB2	10	0.23	0.07	0.22
(1,6651)	1:128:A:CYS:HA	1:129:A:ALA:HB1	10	0.23	0.07	0.22
(1,6651)	1:128:A:CYS:HA	1:129:A:ALA:HB3	10	0.23	0.07	0.22

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6651)	1:128:A:CYS:HA	1:129:A:ALA:HB2	10	0.23	0.07	0.22
(1,417)	1:51:A:ASP:H	1:46:A:VAL:HG23	10	0.23	0.06	0.23
(1,417)	1:51:A:ASP:H	1:46:A:VAL:HG21	10	0.23	0.06	0.23
(1,417)	1:51:A:ASP:H	1:46:A:VAL:HG22	10	0.23	0.06	0.23
(1,5184)	1:51:A:ASP:H	1:46:A:VAL:HG23	10	0.23	0.06	0.23
(1,5184)	1:51:A:ASP:H	1:46:A:VAL:HG21	10	0.23	0.06	0.23
(1,5184)	1:51:A:ASP:H	1:46:A:VAL:HG22	10	0.23	0.06	0.23
(1,3448)	1:70:A:GLU:H	1:70:A:GLU:HB3	10	0.22	0.05	0.24
(1,8215)	1:70:A:GLU:H	1:70:A:GLU:HB3	10	0.22	0.05	0.24
(1,4526)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	10	0.22	0.04	0.23
(1,4705)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	10	0.22	0.04	0.23
(1,550)	1:52:A:VAL:HG21	1:63:A:MET:HG2	10	0.22	0.01	0.22
(1,550)	1:52:A:VAL:HG22	1:63:A:MET:HG2	10	0.22	0.01	0.22
(1,550)	1:52:A:VAL:HG23	1:63:A:MET:HG2	10	0.22	0.01	0.22
(1,5317)	1:52:A:VAL:HG21	1:63:A:MET:HG2	10	0.22	0.01	0.22
(1,5317)	1:52:A:VAL:HG22	1:63:A:MET:HG2	10	0.22	0.01	0.22
(1,5317)	1:52:A:VAL:HG23	1:63:A:MET:HG2	10	0.22	0.01	0.22
(1,3568)	1:78:A:THR:H	1:79:A:LEU:HB3	10	0.22	0.0	0.22
(1,8335)	1:78:A:THR:H	1:79:A:LEU:HB3	10	0.22	0.0	0.22
(1,2668)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	10	0.22	0.01	0.22
(1,7435)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	10	0.22	0.01	0.22
(1,1919)	1:131:A:LEU:HB3	1:131:A:LEU:HD11	10	0.22	0.01	0.22
(1,1919)	1:131:A:LEU:HB3	1:131:A:LEU:HD12	10	0.22	0.01	0.22
(1,1919)	1:131:A:LEU:HB3	1:131:A:LEU:HD13	10	0.22	0.01	0.22
(1,6686)	1:131:A:LEU:HB3	1:131:A:LEU:HD11	10	0.22	0.01	0.22
(1,6686)	1:131:A:LEU:HB3	1:131:A:LEU:HD12	10	0.22	0.01	0.22
(1,6686)	1:131:A:LEU:HB3	1:131:A:LEU:HD13	10	0.22	0.01	0.22
(1,804)	1:66:A:ILE:HG21	1:71:A:GLU:HG3	10	0.22	0.05	0.22
(1,804)	1:66:A:ILE:HG22	1:71:A:GLU:HG3	10	0.22	0.05	0.22
(1,804)	1:66:A:ILE:HG23	1:71:A:GLU:HG3	10	0.22	0.05	0.22
(1,5571)	1:66:A:ILE:HG21	1:71:A:GLU:HG3	10	0.22	0.05	0.22
(1,5571)	1:66:A:ILE:HG22	1:71:A:GLU:HG3	10	0.22	0.05	0.22
(1,5571)	1:66:A:ILE:HG23	1:71:A:GLU:HG3	10	0.22	0.05	0.22
(1,4503)	1:152:A:LEU:HD11	1:79:A:LEU:H	10	0.22	0.03	0.2
(1,4503)	1:152:A:LEU:HD12	1:79:A:LEU:H	10	0.22	0.03	0.2
(1,4503)	1:152:A:LEU:HD13	1:79:A:LEU:H	10	0.22	0.03	0.2
(1,4682)	1:152:A:LEU:HD11	1:79:A:LEU:H	10	0.22	0.03	0.2
(1,4682)	1:152:A:LEU:HD12	1:79:A:LEU:H	10	0.22	0.03	0.2
(1,4682)	1:152:A:LEU:HD13	1:79:A:LEU:H	10	0.22	0.03	0.2
(1,3522)	1:75:A:ILE:H	1:76:A:LEU:HB3	10	0.21	0.01	0.21
(1,8289)	1:75:A:ILE:H	1:76:A:LEU:HB3	10	0.21	0.01	0.21
(1,3169)	1:50:A:GLU:H	1:49:A:ILE:HG13	10	0.21	0.01	0.21

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,7936)	1:50:A:GLU:H	1:49:A:ILE:HG13	10	0.21	0.01	0.21
(1,237)	1:39:A:PHE:H	1:38:A:ILE:HD11	10	0.21	0.03	0.21
(1,237)	1:39:A:PHE:H	1:38:A:ILE:HD13	10	0.21	0.03	0.21
(1,237)	1:39:A:PHE:H	1:38:A:ILE:HD12	10	0.21	0.03	0.21
(1,1424)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	10	0.21	0.02	0.2
(1,5004)	1:39:A:PHE:H	1:38:A:ILE:HD11	10	0.21	0.03	0.21
(1,5004)	1:39:A:PHE:H	1:38:A:ILE:HD13	10	0.21	0.03	0.21
(1,5004)	1:39:A:PHE:H	1:38:A:ILE:HD12	10	0.21	0.03	0.21
(1,6191)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	10	0.21	0.02	0.2
(1,1097)	1:79:A:LEU:HB3	1:79:A:LEU:HD23	10	0.21	0.02	0.21
(1,1097)	1:79:A:LEU:HB3	1:79:A:LEU:HD22	10	0.21	0.02	0.21
(1,1097)	1:79:A:LEU:HB3	1:79:A:LEU:HD21	10	0.21	0.02	0.21
(1,5864)	1:79:A:LEU:HB3	1:79:A:LEU:HD23	10	0.21	0.02	0.21
(1,5864)	1:79:A:LEU:HB3	1:79:A:LEU:HD22	10	0.21	0.02	0.21
(1,5864)	1:79:A:LEU:HB3	1:79:A:LEU:HD21	10	0.21	0.02	0.21
(1,1567)	1:103:A:LYS:HD3	1:96:A:ASP:HA	10	0.21	0.03	0.2
(1,6334)	1:103:A:LYS:HD3	1:96:A:ASP:HA	10	0.21	0.03	0.2
(1,3087)	1:41:A:GLN:H	1:39:A:PHE:HB2	10	0.2	0.01	0.21
(1,7854)	1:41:A:GLN:H	1:39:A:PHE:HB2	10	0.2	0.01	0.21
(1,1891)	1:129:A:ALA:HB3	1:130:A:PHE:HD1	10	0.2	0.07	0.18
(1,1891)	1:129:A:ALA:HB2	1:130:A:PHE:HD1	10	0.2	0.07	0.18
(1,1891)	1:129:A:ALA:HB1	1:130:A:PHE:HD1	10	0.2	0.07	0.18
(1,2312)	1:152:A:LEU:HD23	1:75:A:ILE:H	10	0.2	0.04	0.2
(1,2312)	1:152:A:LEU:HD21	1:75:A:ILE:H	10	0.2	0.04	0.2
(1,2312)	1:152:A:LEU:HD22	1:75:A:ILE:H	10	0.2	0.04	0.2
(1,6658)	1:129:A:ALA:HB3	1:130:A:PHE:HD1	10	0.2	0.07	0.18
(1,6658)	1:129:A:ALA:HB2	1:130:A:PHE:HD1	10	0.2	0.07	0.18
(1,6658)	1:129:A:ALA:HB1	1:130:A:PHE:HD1	10	0.2	0.07	0.18
(1,7079)	1:152:A:LEU:HD23	1:75:A:ILE:H	10	0.2	0.04	0.2
(1,7079)	1:152:A:LEU:HD21	1:75:A:ILE:H	10	0.2	0.04	0.2
(1,7079)	1:152:A:LEU:HD22	1:75:A:ILE:H	10	0.2	0.04	0.2
(1,1034)	1:77:A:ASP:HA	1:80:A:LYS:HB2	10	0.2	0.04	0.2
(1,5801)	1:77:A:ASP:HA	1:80:A:LYS:HB2	10	0.2	0.04	0.2
(1,178)	1:36:A:CYS:HA	1:37:A:TYR:HB3	10	0.2	0.0	0.2
(1,4945)	1:36:A:CYS:HA	1:37:A:TYR:HB3	10	0.2	0.0	0.2
(1,1216)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	10	0.19	0.01	0.19
(1,5983)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	10	0.19	0.01	0.19
(1,1111)	1:79:A:LEU:HG	1:83:A:TRP:HB2	10	0.19	0.03	0.2
(1,5878)	1:79:A:LEU:HG	1:83:A:TRP:HB2	10	0.19	0.03	0.2
(1,2241)	1:148:A:VAL:HG22	1:146:A:SER:HA	10	0.19	0.01	0.19
(1,2241)	1:148:A:VAL:HG23	1:146:A:SER:HA	10	0.19	0.01	0.19
(1,2241)	1:148:A:VAL:HG21	1:146:A:SER:HA	10	0.19	0.01	0.19

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,7008)	1:148:A:VAL:HG22	1:146:A:SER:HA	10	0.19	0.01	0.19
(1,7008)	1:148:A:VAL:HG23	1:146:A:SER:HA	10	0.19	0.01	0.19
(1,7008)	1:148:A:VAL:HG21	1:146:A:SER:HA	10	0.19	0.01	0.19
(1,1211)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	10	0.18	0.02	0.19
(1,5978)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	10	0.18	0.02	0.19
(1,4210)	1:140:A:LYS:H	1:139:A:LYS:HG3	10	0.18	0.03	0.18
(1,8977)	1:140:A:LYS:H	1:139:A:LYS:HG3	10	0.18	0.03	0.18
(1,4565)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	10	0.18	0.01	0.18
(1,4744)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	10	0.18	0.01	0.18
(1,1658)	1:112:A:PHE:HB2	1:66:A:ILE:HB	10	0.17	0.02	0.18
(1,6425)	1:112:A:PHE:HB2	1:66:A:ILE:HB	10	0.17	0.02	0.18
(1,679)	1:63:A:MET:HE2	1:92:A:GLY:HA3	10	0.17	0.01	0.17
(1,679)	1:63:A:MET:HE3	1:92:A:GLY:HA3	10	0.17	0.01	0.17
(1,679)	1:63:A:MET:HE1	1:92:A:GLY:HA3	10	0.17	0.01	0.17
(1,1365)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	10	0.17	0.01	0.18
(1,5446)	1:63:A:MET:HE2	1:92:A:GLY:HA3	10	0.17	0.01	0.17
(1,5446)	1:63:A:MET:HE3	1:92:A:GLY:HA3	10	0.17	0.01	0.17
(1,5446)	1:63:A:MET:HE1	1:92:A:GLY:HA3	10	0.17	0.01	0.17
(1,6132)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	10	0.17	0.01	0.18
(1,235)	1:38:A:ILE:HD11	1:38:A:ILE:HD13	10	0.17	0.0	0.17
(1,235)	1:38:A:ILE:HD12	1:38:A:ILE:HD11	10	0.17	0.0	0.17
(1,235)	1:38:A:ILE:HD12	1:38:A:ILE:HD13	10	0.17	0.0	0.17
(1,1089)	1:79:A:LEU:HD12	1:79:A:LEU:HD22	10	0.17	0.03	0.18
(1,1089)	1:79:A:LEU:HD13	1:79:A:LEU:HD21	10	0.17	0.03	0.18
(1,1089)	1:79:A:LEU:HD11	1:79:A:LEU:HD21	10	0.17	0.03	0.18
(1,1089)	1:79:A:LEU:HD12	1:79:A:LEU:HD21	10	0.17	0.03	0.18
(1,1089)	1:79:A:LEU:HD11	1:79:A:LEU:HD22	10	0.17	0.03	0.18
(1,1089)	1:79:A:LEU:HD11	1:79:A:LEU:HD23	10	0.17	0.03	0.18
(1,1089)	1:79:A:LEU:HD13	1:79:A:LEU:HD23	10	0.17	0.03	0.18
(1,5002)	1:38:A:ILE:HD11	1:38:A:ILE:HD13	10	0.17	0.0	0.17
(1,5002)	1:38:A:ILE:HD12	1:38:A:ILE:HD11	10	0.17	0.0	0.17
(1,5002)	1:38:A:ILE:HD12	1:38:A:ILE:HD13	10	0.17	0.0	0.17
(1,5856)	1:79:A:LEU:HD12	1:79:A:LEU:HD22	10	0.17	0.03	0.18
(1,5856)	1:79:A:LEU:HD13	1:79:A:LEU:HD21	10	0.17	0.03	0.18
(1,5856)	1:79:A:LEU:HD11	1:79:A:LEU:HD21	10	0.17	0.03	0.18
(1,5856)	1:79:A:LEU:HD12	1:79:A:LEU:HD21	10	0.17	0.03	0.18
(1,5856)	1:79:A:LEU:HD11	1:79:A:LEU:HD22	10	0.17	0.03	0.18
(1,5856)	1:79:A:LEU:HD11	1:79:A:LEU:HD23	10	0.17	0.03	0.18
(1,5856)	1:79:A:LEU:HD13	1:79:A:LEU:HD23	10	0.17	0.03	0.18
(1,1989)	1:133:A:ILE:HG12	1:80:A:LYS:H	10	0.17	0.01	0.17
(1,6756)	1:133:A:ILE:HG12	1:80:A:LYS:H	10	0.17	0.01	0.17
(1,719)	1:64:A:ILE:HD12	1:64:A:ILE:HD11	10	0.17	0.0	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,719)	1:64:A:ILE:HD11	1:64:A:ILE:HD13	10	0.17	0.0	0.17
(1,719)	1:64:A:ILE:HD12	1:64:A:ILE:HD13	10	0.17	0.0	0.17
(1,5486)	1:64:A:ILE:HD12	1:64:A:ILE:HD11	10	0.17	0.0	0.17
(1,5486)	1:64:A:ILE:HD11	1:64:A:ILE:HD13	10	0.17	0.0	0.17
(1,5486)	1:64:A:ILE:HD12	1:64:A:ILE:HD13	10	0.17	0.0	0.17
(1,2340)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	10	0.17	0.01	0.16
(1,7107)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	10	0.17	0.01	0.16
(1,2766)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	10	0.16	0.01	0.16
(1,7533)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	10	0.16	0.01	0.16
(1,737)	1:64:A:ILE:HG22	1:64:A:ILE:HG23	10	0.16	0.0	0.16
(1,737)	1:64:A:ILE:HG21	1:64:A:ILE:HG23	10	0.16	0.0	0.16
(1,737)	1:64:A:ILE:HG22	1:64:A:ILE:HG21	10	0.16	0.0	0.16
(1,5504)	1:64:A:ILE:HG22	1:64:A:ILE:HG23	10	0.16	0.0	0.16
(1,5504)	1:64:A:ILE:HG21	1:64:A:ILE:HG23	10	0.16	0.0	0.16
(1,5504)	1:64:A:ILE:HG22	1:64:A:ILE:HG21	10	0.16	0.0	0.16
(1,556)	1:53:A:ARG:HB2	1:52:A:VAL:H	10	0.16	0.04	0.15
(1,1385)	1:91:A:LEU:HD12	1:91:A:LEU:HD13	10	0.16	0.0	0.16
(1,1385)	1:91:A:LEU:HD11	1:91:A:LEU:HD13	10	0.16	0.0	0.16
(1,1385)	1:91:A:LEU:HD12	1:91:A:LEU:HD11	10	0.16	0.0	0.16
(1,3561)	1:78:A:THR:H	1:76:A:LEU:HB3	10	0.16	0.02	0.16
(1,5323)	1:53:A:ARG:HB2	1:52:A:VAL:H	10	0.16	0.04	0.15
(1,6152)	1:91:A:LEU:HD12	1:91:A:LEU:HD13	10	0.16	0.0	0.16
(1,6152)	1:91:A:LEU:HD11	1:91:A:LEU:HD13	10	0.16	0.0	0.16
(1,6152)	1:91:A:LEU:HD12	1:91:A:LEU:HD11	10	0.16	0.0	0.16
(1,8328)	1:78:A:THR:H	1:76:A:LEU:HB3	10	0.16	0.02	0.16
(1,1248)	1:86:A:PRO:HG2	1:85:A:GLY:H	10	0.16	0.01	0.16
(1,6015)	1:86:A:PRO:HG2	1:85:A:GLY:H	10	0.16	0.01	0.16
(1,2508)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	10	0.16	0.01	0.16
(1,2689)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	10	0.16	0.01	0.16
(1,2821)	1:131:A:LEU:HG	1:138:A:TRP:HD1	10	0.16	0.02	0.16
(1,7275)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	10	0.16	0.01	0.16
(1,7456)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	10	0.16	0.01	0.16
(1,7588)	1:131:A:LEU:HG	1:138:A:TRP:HD1	10	0.16	0.02	0.16
(1,4469)	1:79:A:LEU:HD21	1:80:A:LYS:H	10	0.15	0.03	0.15
(1,4469)	1:79:A:LEU:HD23	1:80:A:LYS:H	10	0.15	0.03	0.15
(1,4469)	1:79:A:LEU:HD22	1:80:A:LYS:H	10	0.15	0.03	0.15
(1,4648)	1:79:A:LEU:HD21	1:80:A:LYS:H	10	0.15	0.03	0.15
(1,4648)	1:79:A:LEU:HD23	1:80:A:LYS:H	10	0.15	0.03	0.15
(1,4648)	1:79:A:LEU:HD22	1:80:A:LYS:H	10	0.15	0.03	0.15
(1,3792)	1:102:A:PHE:H	1:101:A:SER:HB2	10	0.15	0.03	0.15
(1,8559)	1:102:A:PHE:H	1:101:A:SER:HB2	10	0.15	0.03	0.15
(1,537)	1:52:A:VAL:HG13	1:48:A:SER:HA	10	0.15	0.03	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,537)	1:52:A:VAL:HG11	1:48:A:SER:HA	10	0.15	0.03	0.15
(1,537)	1:52:A:VAL:HG12	1:48:A:SER:HA	10	0.15	0.03	0.15
(1,1409)	1:91:A:LEU:HD22	1:91:A:LEU:HD23	10	0.15	0.01	0.15
(1,1409)	1:91:A:LEU:HD21	1:91:A:LEU:HD23	10	0.15	0.01	0.15
(1,1409)	1:91:A:LEU:HD22	1:91:A:LEU:HD21	10	0.15	0.01	0.15
(1,5304)	1:52:A:VAL:HG13	1:48:A:SER:HA	10	0.15	0.03	0.15
(1,5304)	1:52:A:VAL:HG11	1:48:A:SER:HA	10	0.15	0.03	0.15
(1,5304)	1:52:A:VAL:HG12	1:48:A:SER:HA	10	0.15	0.03	0.15
(1,6176)	1:91:A:LEU:HD22	1:91:A:LEU:HD23	10	0.15	0.01	0.15
(1,6176)	1:91:A:LEU:HD21	1:91:A:LEU:HD23	10	0.15	0.01	0.15
(1,6176)	1:91:A:LEU:HD22	1:91:A:LEU:HD21	10	0.15	0.01	0.15
(1,283)	1:40:A:LEU:HB2	1:40:A:LEU:HD11	10	0.15	0.01	0.15
(1,283)	1:40:A:LEU:HB2	1:40:A:LEU:HD13	10	0.15	0.01	0.15
(1,283)	1:40:A:LEU:HB2	1:40:A:LEU:HD12	10	0.15	0.01	0.15
(1,5050)	1:40:A:LEU:HB2	1:40:A:LEU:HD11	10	0.15	0.01	0.15
(1,5050)	1:40:A:LEU:HB2	1:40:A:LEU:HD13	10	0.15	0.01	0.15
(1,5050)	1:40:A:LEU:HB2	1:40:A:LEU:HD12	10	0.15	0.01	0.15
(1,648)	1:61:A:ALA:HB1	1:61:A:ALA:HB3	10	0.15	0.0	0.15
(1,648)	1:61:A:ALA:HB2	1:61:A:ALA:HB1	10	0.15	0.0	0.15
(1,648)	1:61:A:ALA:HB2	1:61:A:ALA:HB3	10	0.15	0.0	0.15
(1,5415)	1:61:A:ALA:HB1	1:61:A:ALA:HB3	10	0.15	0.0	0.15
(1,5415)	1:61:A:ALA:HB2	1:61:A:ALA:HB1	10	0.15	0.0	0.15
(1,5415)	1:61:A:ALA:HB2	1:61:A:ALA:HB3	10	0.15	0.0	0.15
(1,3480)	1:72:A:ASN:HD21	1:76:A:LEU:HG	10	0.15	0.02	0.15
(1,8247)	1:72:A:ASN:HD21	1:76:A:LEU:HG	10	0.15	0.02	0.15
(1,1313)	1:90:A:LEU:HB3	1:148:A:VAL:HB	10	0.15	0.02	0.15
(1,6080)	1:90:A:LEU:HB3	1:148:A:VAL:HB	10	0.15	0.02	0.15
(1,2205)	1:145:A:VAL:H	1:145:A:VAL:HG12	10	0.14	0.02	0.15
(1,2205)	1:145:A:VAL:H	1:145:A:VAL:HG11	10	0.14	0.02	0.15
(1,2205)	1:145:A:VAL:H	1:145:A:VAL:HG13	10	0.14	0.02	0.15
(1,2214)	1:145:A:VAL:HG11	1:145:A:VAL:HG22	10	0.14	0.01	0.14
(1,2214)	1:145:A:VAL:HG13	1:145:A:VAL:HG22	10	0.14	0.01	0.14
(1,2214)	1:145:A:VAL:HG11	1:145:A:VAL:HG21	10	0.14	0.01	0.14
(1,2214)	1:145:A:VAL:HG12	1:145:A:VAL:HG22	10	0.14	0.01	0.14
(1,2214)	1:145:A:VAL:HG11	1:145:A:VAL:HG23	10	0.14	0.01	0.14
(1,2214)	1:145:A:VAL:HG13	1:145:A:VAL:HG21	10	0.14	0.01	0.14
(1,2214)	1:145:A:VAL:HG12	1:145:A:VAL:HG23	10	0.14	0.01	0.14
(1,6972)	1:145:A:VAL:H	1:145:A:VAL:HG12	10	0.14	0.02	0.15
(1,6972)	1:145:A:VAL:H	1:145:A:VAL:HG11	10	0.14	0.02	0.15
(1,6972)	1:145:A:VAL:H	1:145:A:VAL:HG13	10	0.14	0.02	0.15
(1,6981)	1:145:A:VAL:HG11	1:145:A:VAL:HG22	10	0.14	0.01	0.14
(1,6981)	1:145:A:VAL:HG13	1:145:A:VAL:HG22	10	0.14	0.01	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6981)	1:145:A:VAL:HG11	1:145:A:VAL:HG21	10	0.14	0.01	0.14
(1,6981)	1:145:A:VAL:HG12	1:145:A:VAL:HG22	10	0.14	0.01	0.14
(1,6981)	1:145:A:VAL:HG11	1:145:A:VAL:HG23	10	0.14	0.01	0.14
(1,6981)	1:145:A:VAL:HG13	1:145:A:VAL:HG21	10	0.14	0.01	0.14
(1,6981)	1:145:A:VAL:HG12	1:145:A:VAL:HG23	10	0.14	0.01	0.14
(1,445)	1:48:A:SER:HB2	1:46:A:VAL:HG13	10	0.14	0.03	0.14
(1,445)	1:48:A:SER:HB2	1:46:A:VAL:HG11	10	0.14	0.03	0.14
(1,445)	1:48:A:SER:HB2	1:46:A:VAL:HG12	10	0.14	0.03	0.14
(1,3732)	1:95:A:TYR:H	1:94:A:PHE:HB3	10	0.14	0.02	0.15
(1,5212)	1:48:A:SER:HB2	1:46:A:VAL:HG13	10	0.14	0.03	0.14
(1,5212)	1:48:A:SER:HB2	1:46:A:VAL:HG11	10	0.14	0.03	0.14
(1,5212)	1:48:A:SER:HB2	1:46:A:VAL:HG12	10	0.14	0.03	0.14
(1,8499)	1:95:A:TYR:H	1:94:A:PHE:HB3	10	0.14	0.02	0.15
(1,3191)	1:51:A:ASP:H	1:51:A:ASP:HB3	10	0.14	0.01	0.14
(1,7958)	1:51:A:ASP:H	1:51:A:ASP:HB3	10	0.14	0.01	0.14
(1,272)	1:39:A:PHE:HB2	1:40:A:LEU:HA	10	0.13	0.01	0.13
(1,1189)	1:84:A:LYS:HA	1:85:A:GLY:HA2	10	0.13	0.01	0.14
(1,5039)	1:39:A:PHE:HB2	1:40:A:LEU:HA	10	0.13	0.01	0.13
(1,5956)	1:84:A:LYS:HA	1:85:A:GLY:HA2	10	0.13	0.01	0.14
(1,1227)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	10	0.13	0.01	0.14
(1,5994)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	10	0.13	0.01	0.14
(1,1888)	1:129:A:ALA:HB2	1:129:A:ALA:HB3	10	0.12	0.0	0.12
(1,1888)	1:129:A:ALA:HB2	1:129:A:ALA:HB1	10	0.12	0.0	0.12
(1,1888)	1:129:A:ALA:HB1	1:129:A:ALA:HB3	10	0.12	0.0	0.12
(1,6655)	1:129:A:ALA:HB2	1:129:A:ALA:HB3	10	0.12	0.0	0.12
(1,6655)	1:129:A:ALA:HB2	1:129:A:ALA:HB1	10	0.12	0.0	0.12
(1,6655)	1:129:A:ALA:HB1	1:129:A:ALA:HB3	10	0.12	0.0	0.12
(1,4509)	1:158:A:PRO:HA	1:157:A:ILE:HG23	9	1.14	0.15	1.14
(1,4509)	1:158:A:PRO:HA	1:157:A:ILE:HD11	9	1.14	0.15	1.14
(1,4509)	1:158:A:PRO:HA	1:157:A:ILE:HG22	9	1.14	0.15	1.14
(1,4509)	1:158:A:PRO:HA	1:157:A:ILE:HD13	9	1.14	0.15	1.14
(1,4509)	1:158:A:PRO:HA	1:157:A:ILE:HD12	9	1.14	0.15	1.14
(1,4688)	1:158:A:PRO:HA	1:157:A:ILE:HG23	9	1.14	0.15	1.14
(1,4688)	1:158:A:PRO:HA	1:157:A:ILE:HD11	9	1.14	0.15	1.14
(1,4688)	1:158:A:PRO:HA	1:157:A:ILE:HG22	9	1.14	0.15	1.14
(1,4688)	1:158:A:PRO:HA	1:157:A:ILE:HD13	9	1.14	0.15	1.14
(1,4688)	1:158:A:PRO:HA	1:157:A:ILE:HD12	9	1.14	0.15	1.14
(1,974)	1:75:A:ILE:HG21	1:71:A:GLU:HG3	9	1.02	0.1	1.03
(1,974)	1:75:A:ILE:HG23	1:71:A:GLU:HG3	9	1.02	0.1	1.03
(1,974)	1:75:A:ILE:HG22	1:71:A:GLU:HG3	9	1.02	0.1	1.03
(1,5741)	1:75:A:ILE:HG21	1:71:A:GLU:HG3	9	1.02	0.1	1.03
(1,5741)	1:75:A:ILE:HG23	1:71:A:GLU:HG3	9	1.02	0.1	1.03

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5741)	1:75:A:ILE:HG22	1:71:A:GLU:HG3	9	1.02	0.1	1.03
(1,2802)	1:145:A:VAL:HG22	1:130:A:PHE:HZ	9	0.78	0.06	0.79
(1,2802)	1:145:A:VAL:HG23	1:130:A:PHE:HZ	9	0.78	0.06	0.79
(1,2802)	1:145:A:VAL:HG21	1:130:A:PHE:HZ	9	0.78	0.06	0.79
(1,7569)	1:145:A:VAL:HG22	1:130:A:PHE:HZ	9	0.78	0.06	0.79
(1,7569)	1:145:A:VAL:HG23	1:130:A:PHE:HZ	9	0.78	0.06	0.79
(1,7569)	1:145:A:VAL:HG21	1:130:A:PHE:HZ	9	0.78	0.06	0.79
(1,4538)	1:36:A:CYS:H	1:156:A:ALA:HB3	9	0.63	0.24	0.7
(1,4538)	1:36:A:CYS:H	1:157:A:ILE:HG13	9	0.63	0.24	0.7
(1,4538)	1:36:A:CYS:H	1:156:A:ALA:HB1	9	0.63	0.24	0.7
(1,4717)	1:36:A:CYS:H	1:156:A:ALA:HB3	9	0.63	0.24	0.7
(1,4717)	1:36:A:CYS:H	1:157:A:ILE:HG13	9	0.63	0.24	0.7
(1,4717)	1:36:A:CYS:H	1:156:A:ALA:HB1	9	0.63	0.24	0.7
(1,775)	1:66:A:ILE:HD11	1:71:A:GLU:HG3	9	0.56	0.14	0.66
(1,775)	1:66:A:ILE:HD12	1:71:A:GLU:HG3	9	0.56	0.14	0.66
(1,775)	1:66:A:ILE:HD13	1:71:A:GLU:HG3	9	0.56	0.14	0.66
(1,5542)	1:66:A:ILE:HD11	1:71:A:GLU:HG3	9	0.56	0.14	0.66
(1,5542)	1:66:A:ILE:HD12	1:71:A:GLU:HG3	9	0.56	0.14	0.66
(1,5542)	1:66:A:ILE:HD13	1:71:A:GLU:HG3	9	0.56	0.14	0.66
(1,4417)	1:40:A:LEU:HD13	1:59:A:HIS:HB3	9	0.52	0.12	0.49
(1,4417)	1:40:A:LEU:HD12	1:59:A:HIS:HB3	9	0.52	0.12	0.49
(1,4417)	1:40:A:LEU:HD11	1:59:A:HIS:HB3	9	0.52	0.12	0.49
(1,4596)	1:40:A:LEU:HD13	1:59:A:HIS:HB3	9	0.52	0.12	0.49
(1,4596)	1:40:A:LEU:HD12	1:59:A:HIS:HB3	9	0.52	0.12	0.49
(1,4596)	1:40:A:LEU:HD11	1:59:A:HIS:HB3	9	0.52	0.12	0.49
(1,977)	1:75:A:ILE:HG21	1:65:A:SER:H	9	0.42	0.15	0.43
(1,977)	1:75:A:ILE:HG23	1:65:A:SER:H	9	0.42	0.15	0.43
(1,977)	1:75:A:ILE:HG22	1:65:A:SER:H	9	0.42	0.15	0.43
(1,5744)	1:75:A:ILE:HG21	1:65:A:SER:H	9	0.42	0.15	0.43
(1,5744)	1:75:A:ILE:HG23	1:65:A:SER:H	9	0.42	0.15	0.43
(1,5744)	1:75:A:ILE:HG22	1:65:A:SER:H	9	0.42	0.15	0.43
(1,2007)	1:133:A:ILE:HG23	1:77:A:ASP:HA	9	0.41	0.05	0.4
(1,2007)	1:133:A:ILE:HG21	1:77:A:ASP:HA	9	0.41	0.05	0.4
(1,2007)	1:133:A:ILE:HG22	1:77:A:ASP:HA	9	0.41	0.05	0.4
(1,6774)	1:133:A:ILE:HG23	1:77:A:ASP:HA	9	0.41	0.05	0.4
(1,6774)	1:133:A:ILE:HG21	1:77:A:ASP:HA	9	0.41	0.05	0.4
(1,6774)	1:133:A:ILE:HG22	1:77:A:ASP:HA	9	0.41	0.05	0.4
(1,2072)	1:116:A:THR:HG23	1:137:A:GLU:HG2	9	0.4	0.15	0.43
(1,2072)	1:116:A:THR:HG21	1:137:A:GLU:HG2	9	0.4	0.15	0.43
(1,2072)	1:116:A:THR:HG22	1:137:A:GLU:HG2	9	0.4	0.15	0.43
(1,6839)	1:116:A:THR:HG23	1:137:A:GLU:HG2	9	0.4	0.15	0.43
(1,6839)	1:116:A:THR:HG21	1:137:A:GLU:HG2	9	0.4	0.15	0.43

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6839)	1:116:A:THR:HG22	1:137:A:GLU:HG2	9	0.4	0.15	0.43
(1,4477)	1:91:A:LEU:HD23	1:115:A:TRP:HZ3	9	0.39	0.12	0.39
(1,4477)	1:91:A:LEU:HD21	1:115:A:TRP:HZ2	9	0.39	0.12	0.39
(1,4477)	1:91:A:LEU:HD21	1:115:A:TRP:HZ3	9	0.39	0.12	0.39
(1,4477)	1:91:A:LEU:HD22	1:115:A:TRP:HZ3	9	0.39	0.12	0.39
(1,4477)	1:91:A:LEU:HD23	1:115:A:TRP:HZ2	9	0.39	0.12	0.39
(1,4656)	1:91:A:LEU:HD23	1:115:A:TRP:HZ3	9	0.39	0.12	0.39
(1,4656)	1:91:A:LEU:HD21	1:115:A:TRP:HZ2	9	0.39	0.12	0.39
(1,4656)	1:91:A:LEU:HD21	1:115:A:TRP:HZ3	9	0.39	0.12	0.39
(1,4656)	1:91:A:LEU:HD22	1:115:A:TRP:HZ3	9	0.39	0.12	0.39
(1,4656)	1:91:A:LEU:HD23	1:115:A:TRP:HZ2	9	0.39	0.12	0.39
(1,2444)	1:157:A:ILE:HG22	1:157:A:ILE:HG13	9	0.39	0.03	0.38
(1,2444)	1:157:A:ILE:HG23	1:157:A:ILE:HG13	9	0.39	0.03	0.38
(1,2444)	1:157:A:ILE:HG21	1:157:A:ILE:HG13	9	0.39	0.03	0.38
(1,7211)	1:157:A:ILE:HG22	1:157:A:ILE:HG13	9	0.39	0.03	0.38
(1,7211)	1:157:A:ILE:HG23	1:157:A:ILE:HG13	9	0.39	0.03	0.38
(1,7211)	1:157:A:ILE:HG21	1:157:A:ILE:HG13	9	0.39	0.03	0.38
(1,2044)	1:136:A:GLY:H	1:135:A:THR:HG22	9	0.35	0.08	0.34
(1,2044)	1:136:A:GLY:H	1:135:A:THR:HG21	9	0.35	0.08	0.34
(1,2044)	1:136:A:GLY:H	1:135:A:THR:HG23	9	0.35	0.08	0.34
(1,6811)	1:136:A:GLY:H	1:135:A:THR:HG22	9	0.35	0.08	0.34
(1,6811)	1:136:A:GLY:H	1:135:A:THR:HG21	9	0.35	0.08	0.34
(1,6811)	1:136:A:GLY:H	1:135:A:THR:HG23	9	0.35	0.08	0.34
(1,956)	1:71:A:GLU:HG3	1:75:A:ILE:HD11	9	0.34	0.02	0.35
(1,956)	1:71:A:GLU:HG3	1:75:A:ILE:HD13	9	0.34	0.02	0.35
(1,956)	1:71:A:GLU:HG3	1:75:A:ILE:HD12	9	0.34	0.02	0.35
(1,5723)	1:71:A:GLU:HG3	1:75:A:ILE:HD11	9	0.34	0.02	0.35
(1,5723)	1:71:A:GLU:HG3	1:75:A:ILE:HD13	9	0.34	0.02	0.35
(1,5723)	1:71:A:GLU:HG3	1:75:A:ILE:HD12	9	0.34	0.02	0.35
(1,815)	1:66:A:ILE:HG23	1:138:A:TRP:HZ3	9	0.31	0.08	0.32
(1,815)	1:66:A:ILE:HG21	1:138:A:TRP:HZ3	9	0.31	0.08	0.32
(1,815)	1:66:A:ILE:HG22	1:138:A:TRP:HZ3	9	0.31	0.08	0.32
(1,5582)	1:66:A:ILE:HG23	1:138:A:TRP:HZ3	9	0.31	0.08	0.32
(1,5582)	1:66:A:ILE:HG21	1:138:A:TRP:HZ3	9	0.31	0.08	0.32
(1,5582)	1:66:A:ILE:HG22	1:138:A:TRP:HZ3	9	0.31	0.08	0.32
(1,973)	1:75:A:ILE:HG22	1:83:A:TRP:HZ3	9	0.3	0.06	0.33
(1,973)	1:75:A:ILE:HG21	1:83:A:TRP:HZ3	9	0.3	0.06	0.33
(1,973)	1:75:A:ILE:HG23	1:83:A:TRP:HZ3	9	0.3	0.06	0.33
(1,5740)	1:75:A:ILE:HG22	1:83:A:TRP:HZ3	9	0.3	0.06	0.33
(1,5740)	1:75:A:ILE:HG21	1:83:A:TRP:HZ3	9	0.3	0.06	0.33
(1,5740)	1:75:A:ILE:HG23	1:83:A:TRP:HZ3	9	0.3	0.06	0.33
(1,1395)	1:91:A:LEU:HD12	1:138:A:TRP:HB3	9	0.3	0.1	0.34

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1395)	1:91:A:LEU:HD11	1:138:A:TRP:HB3	9	0.3	0.1	0.34
(1,1395)	1:91:A:LEU:HD13	1:138:A:TRP:HB3	9	0.3	0.1	0.34
(1,6162)	1:91:A:LEU:HD12	1:138:A:TRP:HB3	9	0.3	0.1	0.34
(1,6162)	1:91:A:LEU:HD11	1:138:A:TRP:HB3	9	0.3	0.1	0.34
(1,6162)	1:91:A:LEU:HD13	1:138:A:TRP:HB3	9	0.3	0.1	0.34
(1,1394)	1:91:A:LEU:HD23	1:138:A:TRP:HB2	9	0.28	0.09	0.3
(1,1394)	1:91:A:LEU:HD22	1:138:A:TRP:HB2	9	0.28	0.09	0.3
(1,1394)	1:91:A:LEU:HD21	1:138:A:TRP:HB2	9	0.28	0.09	0.3
(1,6161)	1:91:A:LEU:HD23	1:138:A:TRP:HB2	9	0.28	0.09	0.3
(1,6161)	1:91:A:LEU:HD22	1:138:A:TRP:HB2	9	0.28	0.09	0.3
(1,6161)	1:91:A:LEU:HD21	1:138:A:TRP:HB2	9	0.28	0.09	0.3
(1,2799)	1:90:A:LEU:HD11	1:130:A:PHE:HD1	9	0.28	0.03	0.28
(1,2799)	1:90:A:LEU:HD12	1:130:A:PHE:HD1	9	0.28	0.03	0.28
(1,2799)	1:90:A:LEU:HD13	1:130:A:PHE:HD1	9	0.28	0.03	0.28
(1,7566)	1:90:A:LEU:HD11	1:130:A:PHE:HD1	9	0.28	0.03	0.28
(1,7566)	1:90:A:LEU:HD12	1:130:A:PHE:HD1	9	0.28	0.03	0.28
(1,7566)	1:90:A:LEU:HD13	1:130:A:PHE:HD1	9	0.28	0.03	0.28
(1,1854)	1:128:A:CYS:H	1:127:A:THR:HG22	9	0.27	0.03	0.27
(1,1854)	1:128:A:CYS:H	1:127:A:THR:HG21	9	0.27	0.03	0.27
(1,1854)	1:128:A:CYS:H	1:127:A:THR:HG23	9	0.27	0.03	0.27
(1,6621)	1:128:A:CYS:H	1:127:A:THR:HG22	9	0.27	0.03	0.27
(1,6621)	1:128:A:CYS:H	1:127:A:THR:HG21	9	0.27	0.03	0.27
(1,6621)	1:128:A:CYS:H	1:127:A:THR:HG23	9	0.27	0.03	0.27
(1,278)	1:40:A:LEU:HB2	1:38:A:ILE:HD11	9	0.25	0.1	0.21
(1,278)	1:40:A:LEU:HB2	1:38:A:ILE:HD13	9	0.25	0.1	0.21
(1,278)	1:40:A:LEU:HB2	1:38:A:ILE:HD12	9	0.25	0.1	0.21
(1,5045)	1:40:A:LEU:HB2	1:38:A:ILE:HD11	9	0.25	0.1	0.21
(1,5045)	1:40:A:LEU:HB2	1:38:A:ILE:HD13	9	0.25	0.1	0.21
(1,5045)	1:40:A:LEU:HB2	1:38:A:ILE:HD12	9	0.25	0.1	0.21
(1,2561)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	9	0.24	0.03	0.23
(1,7328)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	9	0.24	0.03	0.23
(1,4548)	1:48:A:SER:H	1:45:A:LYS:HG3	9	0.23	0.09	0.22
(1,4727)	1:48:A:SER:H	1:45:A:LYS:HG3	9	0.23	0.09	0.22
(1,538)	1:52:A:VAL:HG11	1:55:A:GLN:HE22	9	0.23	0.02	0.22
(1,538)	1:52:A:VAL:HG12	1:55:A:GLN:HE22	9	0.23	0.02	0.22
(1,538)	1:52:A:VAL:HG13	1:55:A:GLN:HE22	9	0.23	0.02	0.22
(1,5305)	1:52:A:VAL:HG11	1:55:A:GLN:HE22	9	0.23	0.02	0.22
(1,5305)	1:52:A:VAL:HG12	1:55:A:GLN:HE22	9	0.23	0.02	0.22
(1,5305)	1:52:A:VAL:HG13	1:55:A:GLN:HE22	9	0.23	0.02	0.22
(1,1755)	1:116:A:THR:HG23	1:139:A:LYS:HA	9	0.22	0.07	0.22
(1,1755)	1:116:A:THR:HG21	1:139:A:LYS:HA	9	0.22	0.07	0.22
(1,1755)	1:116:A:THR:HG22	1:139:A:LYS:HA	9	0.22	0.07	0.22

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6522)	1:116:A:THR:HG23	1:139:A:LYS:HA	9	0.22	0.07	0.22
(1,6522)	1:116:A:THR:HG21	1:139:A:LYS:HA	9	0.22	0.07	0.22
(1,6522)	1:116:A:THR:HG22	1:139:A:LYS:HA	9	0.22	0.07	0.22
(1,2446)	1:157:A:ILE:HG23	1:158:A:PRO:HD3	9	0.22	0.06	0.2
(1,2446)	1:157:A:ILE:HG21	1:158:A:PRO:HD3	9	0.22	0.06	0.2
(1,2446)	1:157:A:ILE:HG22	1:158:A:PRO:HD3	9	0.22	0.06	0.2
(1,7213)	1:157:A:ILE:HG23	1:158:A:PRO:HD3	9	0.22	0.06	0.2
(1,7213)	1:157:A:ILE:HG21	1:158:A:PRO:HD3	9	0.22	0.06	0.2
(1,7213)	1:157:A:ILE:HG22	1:158:A:PRO:HD3	9	0.22	0.06	0.2
(1,641)	1:38:A:ILE:HG22	1:61:A:ALA:HB1	9	0.22	0.08	0.16
(1,641)	1:38:A:ILE:HG23	1:61:A:ALA:HB2	9	0.22	0.08	0.16
(1,641)	1:38:A:ILE:HG23	1:61:A:ALA:HB1	9	0.22	0.08	0.16
(1,641)	1:38:A:ILE:HG21	1:61:A:ALA:HB2	9	0.22	0.08	0.16
(1,641)	1:38:A:ILE:HG21	1:61:A:ALA:HB3	9	0.22	0.08	0.16
(1,641)	1:38:A:ILE:HG22	1:61:A:ALA:HB3	9	0.22	0.08	0.16
(1,5408)	1:38:A:ILE:HG22	1:61:A:ALA:HB1	9	0.22	0.08	0.16
(1,5408)	1:38:A:ILE:HG23	1:61:A:ALA:HB2	9	0.22	0.08	0.16
(1,5408)	1:38:A:ILE:HG23	1:61:A:ALA:HB1	9	0.22	0.08	0.16
(1,5408)	1:38:A:ILE:HG21	1:61:A:ALA:HB2	9	0.22	0.08	0.16
(1,5408)	1:38:A:ILE:HG21	1:61:A:ALA:HB3	9	0.22	0.08	0.16
(1,5408)	1:38:A:ILE:HG22	1:61:A:ALA:HB3	9	0.22	0.08	0.16
(1,1004)	1:76:A:LEU:HD11	1:89:A:ILE:H	9	0.21	0.06	0.2
(1,1004)	1:76:A:LEU:HD13	1:89:A:ILE:H	9	0.21	0.06	0.2
(1,1004)	1:76:A:LEU:HD12	1:89:A:ILE:H	9	0.21	0.06	0.2
(1,5771)	1:76:A:LEU:HD11	1:89:A:ILE:H	9	0.21	0.06	0.2
(1,5771)	1:76:A:LEU:HD13	1:89:A:ILE:H	9	0.21	0.06	0.2
(1,5771)	1:76:A:LEU:HD12	1:89:A:ILE:H	9	0.21	0.06	0.2
(1,4106)	1:133:A:ILE:H	1:133:A:ILE:HG21	9	0.21	0.04	0.2
(1,4106)	1:133:A:ILE:H	1:133:A:ILE:HG22	9	0.21	0.04	0.2
(1,4106)	1:133:A:ILE:H	1:133:A:ILE:HG23	9	0.21	0.04	0.2
(1,8873)	1:133:A:ILE:H	1:133:A:ILE:HG21	9	0.21	0.04	0.2
(1,8873)	1:133:A:ILE:H	1:133:A:ILE:HG22	9	0.21	0.04	0.2
(1,8873)	1:133:A:ILE:H	1:133:A:ILE:HG23	9	0.21	0.04	0.2
(1,2403)	1:156:A:ALA:HA	1:157:A:ILE:HG23	9	0.19	0.04	0.21
(1,2403)	1:156:A:ALA:HA	1:157:A:ILE:HG21	9	0.19	0.04	0.21
(1,2403)	1:156:A:ALA:HA	1:157:A:ILE:HG22	9	0.19	0.04	0.21
(1,7170)	1:156:A:ALA:HA	1:157:A:ILE:HG23	9	0.19	0.04	0.21
(1,7170)	1:156:A:ALA:HA	1:157:A:ILE:HG21	9	0.19	0.04	0.21
(1,7170)	1:156:A:ALA:HA	1:157:A:ILE:HG22	9	0.19	0.04	0.21
(1,1928)	1:131:A:LEU:HD12	1:138:A:TRP:HA	9	0.18	0.04	0.19
(1,1928)	1:131:A:LEU:HD13	1:138:A:TRP:HA	9	0.18	0.04	0.19
(1,1928)	1:131:A:LEU:HD11	1:138:A:TRP:HA	9	0.18	0.04	0.19

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6695)	1:131:A:LEU:HD12	1:138:A:TRP:HA	9	0.18	0.04	0.19
(1,6695)	1:131:A:LEU:HD13	1:138:A:TRP:HA	9	0.18	0.04	0.19
(1,6695)	1:131:A:LEU:HD11	1:138:A:TRP:HA	9	0.18	0.04	0.19
(1,3728)	1:94:A:PHE:H	1:103:A:LYS:HG2	9	0.18	0.02	0.18
(1,8495)	1:94:A:PHE:H	1:103:A:LYS:HG2	9	0.18	0.02	0.18
(1,1499)	1:97:A:THR:HG21	1:96:A:ASP:HA	9	0.18	0.01	0.17
(1,1499)	1:97:A:THR:HG23	1:96:A:ASP:HA	9	0.18	0.01	0.17
(1,1499)	1:97:A:THR:HG22	1:96:A:ASP:HA	9	0.18	0.01	0.17
(1,6266)	1:97:A:THR:HG21	1:96:A:ASP:HA	9	0.18	0.01	0.17
(1,6266)	1:97:A:THR:HG23	1:96:A:ASP:HA	9	0.18	0.01	0.17
(1,6266)	1:97:A:THR:HG22	1:96:A:ASP:HA	9	0.18	0.01	0.17
(1,4489)	1:131:A:LEU:HD21	1:91:A:LEU:HA	9	0.17	0.02	0.17
(1,4489)	1:131:A:LEU:HD22	1:91:A:LEU:HA	9	0.17	0.02	0.17
(1,4489)	1:131:A:LEU:HD23	1:91:A:LEU:HA	9	0.17	0.02	0.17
(1,4668)	1:131:A:LEU:HD21	1:91:A:LEU:HA	9	0.17	0.02	0.17
(1,4668)	1:131:A:LEU:HD22	1:91:A:LEU:HA	9	0.17	0.02	0.17
(1,4668)	1:131:A:LEU:HD23	1:91:A:LEU:HA	9	0.17	0.02	0.17
(1,693)	1:63:A:MET:HG2	1:64:A:ILE:HG22	9	0.17	0.04	0.17
(1,693)	1:63:A:MET:HG2	1:64:A:ILE:HG23	9	0.17	0.04	0.17
(1,693)	1:63:A:MET:HG2	1:64:A:ILE:HG21	9	0.17	0.04	0.17
(1,5460)	1:63:A:MET:HG2	1:64:A:ILE:HG22	9	0.17	0.04	0.17
(1,5460)	1:63:A:MET:HG2	1:64:A:ILE:HG23	9	0.17	0.04	0.17
(1,5460)	1:63:A:MET:HG2	1:64:A:ILE:HG21	9	0.17	0.04	0.17
(1,4500)	1:151:A:THR:HG21	1:56:A:CYS:HB3	9	0.17	0.04	0.15
(1,4500)	1:151:A:THR:HG22	1:56:A:CYS:HB3	9	0.17	0.04	0.15
(1,4500)	1:151:A:THR:HG23	1:56:A:CYS:HB3	9	0.17	0.04	0.15
(1,4679)	1:151:A:THR:HG21	1:56:A:CYS:HB3	9	0.17	0.04	0.15
(1,4679)	1:151:A:THR:HG22	1:56:A:CYS:HB3	9	0.17	0.04	0.15
(1,4679)	1:151:A:THR:HG23	1:56:A:CYS:HB3	9	0.17	0.04	0.15
(1,646)	1:61:A:ALA:HB3	1:56:A:CYS:H	9	0.17	0.04	0.17
(1,646)	1:61:A:ALA:HB1	1:56:A:CYS:H	9	0.17	0.04	0.17
(1,646)	1:61:A:ALA:HB2	1:56:A:CYS:H	9	0.17	0.04	0.17
(1,5413)	1:61:A:ALA:HB3	1:56:A:CYS:H	9	0.17	0.04	0.17
(1,5413)	1:61:A:ALA:HB1	1:56:A:CYS:H	9	0.17	0.04	0.17
(1,5413)	1:61:A:ALA:HB2	1:56:A:CYS:H	9	0.17	0.04	0.17
(1,4136)	1:136:A:GLY:H	1:131:A:LEU:HD12	9	0.16	0.04	0.15
(1,4136)	1:136:A:GLY:H	1:131:A:LEU:HD13	9	0.16	0.04	0.15
(1,4136)	1:136:A:GLY:H	1:131:A:LEU:HD11	9	0.16	0.04	0.15
(1,8903)	1:136:A:GLY:H	1:131:A:LEU:HD12	9	0.16	0.04	0.15
(1,8903)	1:136:A:GLY:H	1:131:A:LEU:HD13	9	0.16	0.04	0.15
(1,8903)	1:136:A:GLY:H	1:131:A:LEU:HD11	9	0.16	0.04	0.15
(1,1952)	1:131:A:LEU:HD21	1:136:A:GLY:HA2	9	0.16	0.03	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1952)	1:131:A:LEU:HD22	1:136:A:GLY:HA2	9	0.16	0.03	0.15
(1,1952)	1:131:A:LEU:HD23	1:136:A:GLY:HA2	9	0.16	0.03	0.15
(1,6719)	1:131:A:LEU:HD21	1:136:A:GLY:HA2	9	0.16	0.03	0.15
(1,6719)	1:131:A:LEU:HD22	1:136:A:GLY:HA2	9	0.16	0.03	0.15
(1,6719)	1:131:A:LEU:HD23	1:136:A:GLY:HA2	9	0.16	0.03	0.15
(1,3914)	1:112:A:PHE:H	1:112:A:PHE:HD1	9	0.15	0.03	0.13
(1,8681)	1:112:A:PHE:H	1:112:A:PHE:HD1	9	0.15	0.03	0.13
(1,4118)	1:134:A:LYS:H	1:132:A:HIS:HB2	9	0.14	0.01	0.15
(1,8885)	1:134:A:LYS:H	1:132:A:HIS:HB2	9	0.14	0.01	0.15
(1,2012)	1:133:A:ILE:HA	1:133:A:ILE:HG23	9	0.14	0.02	0.14
(1,2012)	1:133:A:ILE:HA	1:133:A:ILE:HG21	9	0.14	0.02	0.14
(1,2012)	1:133:A:ILE:HA	1:133:A:ILE:HG22	9	0.14	0.02	0.14
(1,6779)	1:133:A:ILE:HA	1:133:A:ILE:HG23	9	0.14	0.02	0.14
(1,6779)	1:133:A:ILE:HA	1:133:A:ILE:HG21	9	0.14	0.02	0.14
(1,6779)	1:133:A:ILE:HA	1:133:A:ILE:HG22	9	0.14	0.02	0.14
(1,1048)	1:78:A:THR:H	1:77:A:ASP:HB2	9	0.13	0.02	0.13
(1,5815)	1:78:A:THR:H	1:77:A:ASP:HB2	9	0.13	0.02	0.13
(1,4588)	1:155:A:THR:H	1:154:A:LYS:HE2	9	0.13	0.02	0.13
(1,4767)	1:155:A:THR:H	1:154:A:LYS:HE2	9	0.13	0.02	0.13
(1,4079)	1:131:A:LEU:H	1:130:A:PHE:HB2	9	0.13	0.01	0.12
(1,8846)	1:131:A:LEU:H	1:130:A:PHE:HB2	9	0.13	0.01	0.12
(1,3674)	1:90:A:LEU:H	1:90:A:LEU:HB3	9	0.12	0.01	0.12
(1,8441)	1:90:A:LEU:H	1:90:A:LEU:HB3	9	0.12	0.01	0.12
(1,100)	1:30:A:ILE:H	1:30:A:ILE:HG23	9	0.12	0.02	0.11
(1,100)	1:30:A:ILE:H	1:30:A:ILE:HG22	9	0.12	0.02	0.11
(1,100)	1:30:A:ILE:H	1:30:A:ILE:HG21	9	0.12	0.02	0.11
(1,4867)	1:30:A:ILE:H	1:30:A:ILE:HG23	9	0.12	0.02	0.11
(1,4867)	1:30:A:ILE:H	1:30:A:ILE:HG22	9	0.12	0.02	0.11
(1,4867)	1:30:A:ILE:H	1:30:A:ILE:HG21	9	0.12	0.02	0.11
(1,847)	1:69:A:GLU:H	1:69:A:GLU:HB2	9	0.12	0.01	0.12
(1,5614)	1:69:A:GLU:H	1:69:A:GLU:HB2	9	0.12	0.01	0.12
(1,3477)	1:72:A:ASN:H	1:72:A:ASN:HD21	9	0.11	0.01	0.11
(1,8244)	1:72:A:ASN:H	1:72:A:ASN:HD21	9	0.11	0.01	0.11
(1,735)	1:64:A:ILE:HG22	1:64:A:ILE:HA	9	0.11	0.01	0.11
(1,735)	1:64:A:ILE:HG21	1:64:A:ILE:HA	9	0.11	0.01	0.11
(1,735)	1:64:A:ILE:HG23	1:64:A:ILE:HA	9	0.11	0.01	0.11
(1,5502)	1:64:A:ILE:HG22	1:64:A:ILE:HA	9	0.11	0.01	0.11
(1,5502)	1:64:A:ILE:HG21	1:64:A:ILE:HA	9	0.11	0.01	0.11
(1,5502)	1:64:A:ILE:HG23	1:64:A:ILE:HA	9	0.11	0.01	0.11
(1,2404)	1:156:A:ALA:HB1	1:154:A:LYS:HE2	8	0.65	0.18	0.7
(1,2404)	1:156:A:ALA:HB3	1:154:A:LYS:HE2	8	0.65	0.18	0.7
(1,2404)	1:156:A:ALA:HB2	1:154:A:LYS:HE2	8	0.65	0.18	0.7

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,7171)	1:156:A:ALA:HB1	1:154:A:LYS:HE2	8	0.65	0.18	0.7
(1,7171)	1:156:A:ALA:HB3	1:154:A:LYS:HE2	8	0.65	0.18	0.7
(1,7171)	1:156:A:ALA:HB2	1:154:A:LYS:HE2	8	0.65	0.18	0.7
(1,1829)	1:125:A:VAL:HG11	1:97:A:THR:HG23	8	0.47	0.13	0.47
(1,1829)	1:125:A:VAL:HG13	1:97:A:THR:HG23	8	0.47	0.13	0.47
(1,1829)	1:125:A:VAL:HG12	1:97:A:THR:HG22	8	0.47	0.13	0.47
(1,1829)	1:125:A:VAL:HG12	1:97:A:THR:HG23	8	0.47	0.13	0.47
(1,1829)	1:125:A:VAL:HG11	1:97:A:THR:HG22	8	0.47	0.13	0.47
(1,1829)	1:125:A:VAL:HG13	1:97:A:THR:HG21	8	0.47	0.13	0.47
(1,6596)	1:125:A:VAL:HG11	1:97:A:THR:HG23	8	0.47	0.13	0.47
(1,6596)	1:125:A:VAL:HG13	1:97:A:THR:HG23	8	0.47	0.13	0.47
(1,6596)	1:125:A:VAL:HG12	1:97:A:THR:HG22	8	0.47	0.13	0.47
(1,6596)	1:125:A:VAL:HG12	1:97:A:THR:HG23	8	0.47	0.13	0.47
(1,6596)	1:125:A:VAL:HG11	1:97:A:THR:HG22	8	0.47	0.13	0.47
(1,6596)	1:125:A:VAL:HG13	1:97:A:THR:HG21	8	0.47	0.13	0.47
(1,156)	1:35:A:SER:HA	1:156:A:ALA:HB2	8	0.46	0.08	0.45
(1,156)	1:35:A:SER:HA	1:156:A:ALA:HB1	8	0.46	0.08	0.45
(1,156)	1:35:A:SER:HA	1:156:A:ALA:HB3	8	0.46	0.08	0.45
(1,4923)	1:35:A:SER:HA	1:156:A:ALA:HB2	8	0.46	0.08	0.45
(1,4923)	1:35:A:SER:HA	1:156:A:ALA:HB1	8	0.46	0.08	0.45
(1,4923)	1:35:A:SER:HA	1:156:A:ALA:HB3	8	0.46	0.08	0.45
(1,780)	1:66:A:ILE:HD13	1:75:A:ILE:HA	8	0.41	0.21	0.51
(1,780)	1:66:A:ILE:HD11	1:75:A:ILE:HA	8	0.41	0.21	0.51
(1,1622)	1:109:A:ASN:HB2	1:111:A:THR:HG22	8	0.41	0.03	0.41
(1,1622)	1:109:A:ASN:HB2	1:111:A:THR:HG21	8	0.41	0.03	0.41
(1,1622)	1:109:A:ASN:HB2	1:111:A:THR:HG23	8	0.41	0.03	0.41
(1,5547)	1:66:A:ILE:HD13	1:75:A:ILE:HA	8	0.41	0.21	0.51
(1,5547)	1:66:A:ILE:HD11	1:75:A:ILE:HA	8	0.41	0.21	0.51
(1,6389)	1:109:A:ASN:HB2	1:111:A:THR:HG22	8	0.41	0.03	0.41
(1,6389)	1:109:A:ASN:HB2	1:111:A:THR:HG21	8	0.41	0.03	0.41
(1,6389)	1:109:A:ASN:HB2	1:111:A:THR:HG23	8	0.41	0.03	0.41
(1,1517)	1:100:A:ALA:HB1	1:97:A:THR:HB	8	0.38	0.06	0.4
(1,1517)	1:100:A:ALA:HB3	1:97:A:THR:HB	8	0.38	0.06	0.4
(1,1517)	1:100:A:ALA:HB2	1:97:A:THR:HB	8	0.38	0.06	0.4
(1,6284)	1:100:A:ALA:HB1	1:97:A:THR:HB	8	0.38	0.06	0.4
(1,6284)	1:100:A:ALA:HB3	1:97:A:THR:HB	8	0.38	0.06	0.4
(1,6284)	1:100:A:ALA:HB2	1:97:A:THR:HB	8	0.38	0.06	0.4
(1,2750)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	8	0.3	0.1	0.32
(1,7517)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	8	0.3	0.1	0.32
(1,972)	1:75:A:ILE:HG22	1:79:A:LEU:H	8	0.28	0.04	0.28
(1,972)	1:75:A:ILE:HG23	1:79:A:LEU:H	8	0.28	0.04	0.28
(1,972)	1:75:A:ILE:HG21	1:79:A:LEU:H	8	0.28	0.04	0.28

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5739)	1:75:A:ILE:HG22	1:79:A:LEU:H	8	0.28	0.04	0.28
(1,5739)	1:75:A:ILE:HG23	1:79:A:LEU:H	8	0.28	0.04	0.28
(1,5739)	1:75:A:ILE:HG21	1:79:A:LEU:H	8	0.28	0.04	0.28
(1,2825)	1:131:A:LEU:HD22	1:138:A:TRP:HD1	8	0.24	0.07	0.24
(1,2825)	1:131:A:LEU:HD23	1:138:A:TRP:HD1	8	0.24	0.07	0.24
(1,2825)	1:131:A:LEU:HD21	1:138:A:TRP:HD1	8	0.24	0.07	0.24
(1,7592)	1:131:A:LEU:HD22	1:138:A:TRP:HD1	8	0.24	0.07	0.24
(1,7592)	1:131:A:LEU:HD23	1:138:A:TRP:HD1	8	0.24	0.07	0.24
(1,7592)	1:131:A:LEU:HD21	1:138:A:TRP:HD1	8	0.24	0.07	0.24
(1,1342)	1:90:A:LEU:HD23	1:63:A:MET:HB3	8	0.23	0.08	0.22
(1,1342)	1:90:A:LEU:HD22	1:63:A:MET:HB3	8	0.23	0.08	0.22
(1,1342)	1:90:A:LEU:HD21	1:63:A:MET:HB3	8	0.23	0.08	0.22
(1,6109)	1:90:A:LEU:HD23	1:63:A:MET:HB3	8	0.23	0.08	0.22
(1,6109)	1:90:A:LEU:HD22	1:63:A:MET:HB3	8	0.23	0.08	0.22
(1,6109)	1:90:A:LEU:HD21	1:63:A:MET:HB3	8	0.23	0.08	0.22
(1,4533)	1:31:A:GLN:HE22	1:23:A:ASP:HA	8	0.22	0.07	0.2
(1,4533)	1:31:A:GLN:HE22	1:34:A:ASP:HA	8	0.22	0.07	0.2
(1,4712)	1:31:A:GLN:HE22	1:23:A:ASP:HA	8	0.22	0.07	0.2
(1,4712)	1:31:A:GLN:HE22	1:34:A:ASP:HA	8	0.22	0.07	0.2
(1,4245)	1:142:A:ASN:HD22	1:124:A:LEU:HD21	8	0.22	0.06	0.24
(1,4245)	1:142:A:ASN:HD22	1:124:A:LEU:HD23	8	0.22	0.06	0.24
(1,9012)	1:142:A:ASN:HD22	1:124:A:LEU:HD21	8	0.22	0.06	0.24
(1,9012)	1:142:A:ASN:HD22	1:124:A:LEU:HD23	8	0.22	0.06	0.24
(1,1739)	1:116:A:THR:HA	1:117:A:ASP:HB2	8	0.21	0.03	0.2
(1,6506)	1:116:A:THR:HA	1:117:A:ASP:HB2	8	0.21	0.03	0.2
(1,3360)	1:62:A:ASP:H	1:155:A:THR:HG23	8	0.21	0.07	0.22
(1,3360)	1:62:A:ASP:H	1:155:A:THR:HG21	8	0.21	0.07	0.22
(1,3360)	1:62:A:ASP:H	1:155:A:THR:HG22	8	0.21	0.07	0.22
(1,8127)	1:62:A:ASP:H	1:155:A:THR:HG23	8	0.21	0.07	0.22
(1,8127)	1:62:A:ASP:H	1:155:A:THR:HG21	8	0.21	0.07	0.22
(1,8127)	1:62:A:ASP:H	1:155:A:THR:HG22	8	0.21	0.07	0.22
(1,4440)	1:64:A:ILE:HD13	1:152:A:LEU:H	8	0.2	0.04	0.2
(1,4440)	1:64:A:ILE:HD11	1:152:A:LEU:H	8	0.2	0.04	0.2
(1,4440)	1:64:A:ILE:HD12	1:152:A:LEU:H	8	0.2	0.04	0.2
(1,4619)	1:64:A:ILE:HD13	1:152:A:LEU:H	8	0.2	0.04	0.2
(1,4619)	1:64:A:ILE:HD11	1:152:A:LEU:H	8	0.2	0.04	0.2
(1,4619)	1:64:A:ILE:HD12	1:152:A:LEU:H	8	0.2	0.04	0.2
(1,3895)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	8	0.18	0.0	0.18
(1,8662)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	8	0.18	0.0	0.18
(1,1009)	1:76:A:LEU:HD12	1:133:A:ILE:HA	8	0.17	0.05	0.16
(1,1009)	1:76:A:LEU:HD11	1:133:A:ILE:HA	8	0.17	0.05	0.16
(1,1009)	1:76:A:LEU:HD13	1:133:A:ILE:HA	8	0.17	0.05	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5776)	1:76:A:LEU:HD12	1:133:A:ILE:HA	8	0.17	0.05	0.16
(1,5776)	1:76:A:LEU:HD11	1:133:A:ILE:HA	8	0.17	0.05	0.16
(1,5776)	1:76:A:LEU:HD13	1:133:A:ILE:HA	8	0.17	0.05	0.16
(1,3207)	1:53:A:ARG:H	1:46:A:VAL:HG13	8	0.17	0.05	0.15
(1,3207)	1:53:A:ARG:H	1:46:A:VAL:HG11	8	0.17	0.05	0.15
(1,3207)	1:53:A:ARG:H	1:46:A:VAL:HG12	8	0.17	0.05	0.15
(1,7974)	1:53:A:ARG:H	1:46:A:VAL:HG13	8	0.17	0.05	0.15
(1,7974)	1:53:A:ARG:H	1:46:A:VAL:HG11	8	0.17	0.05	0.15
(1,7974)	1:53:A:ARG:H	1:46:A:VAL:HG12	8	0.17	0.05	0.15
(1,1683)	1:114:A:LYS:HA	1:112:A:PHE:HD2	8	0.16	0.02	0.16
(1,6450)	1:114:A:LYS:HA	1:112:A:PHE:HD2	8	0.16	0.02	0.16
(1,2022)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	8	0.16	0.01	0.16
(1,6789)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	8	0.16	0.01	0.16
(1,1580)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	8	0.13	0.01	0.14
(1,6347)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	8	0.13	0.01	0.14
(1,933)	1:74:A:PHE:HA	1:74:A:PHE:HB3	8	0.1	0.0	0.1
(1,5700)	1:74:A:PHE:HA	1:74:A:PHE:HB3	8	0.1	0.0	0.1
(1,4444)	1:64:A:ILE:HG21	1:65:A:SER:HB2	7	0.59	0.19	0.47
(1,4444)	1:64:A:ILE:HG23	1:65:A:SER:HB2	7	0.59	0.19	0.47
(1,4444)	1:64:A:ILE:HG22	1:65:A:SER:HB2	7	0.59	0.19	0.47
(1,4623)	1:64:A:ILE:HG21	1:65:A:SER:HB2	7	0.59	0.19	0.47
(1,4623)	1:64:A:ILE:HG23	1:65:A:SER:HB2	7	0.59	0.19	0.47
(1,4623)	1:64:A:ILE:HG22	1:65:A:SER:HB2	7	0.59	0.19	0.47
(1,2711)	1:104:A:TRP:HE3	1:91:A:LEU:HD13	7	0.4	0.12	0.43
(1,2711)	1:104:A:TRP:HE3	1:91:A:LEU:HD12	7	0.4	0.12	0.43
(1,2711)	1:104:A:TRP:HE3	1:91:A:LEU:HD11	7	0.4	0.12	0.43
(1,7478)	1:104:A:TRP:HE3	1:91:A:LEU:HD13	7	0.4	0.12	0.43
(1,7478)	1:104:A:TRP:HE3	1:91:A:LEU:HD12	7	0.4	0.12	0.43
(1,7478)	1:104:A:TRP:HE3	1:91:A:LEU:HD11	7	0.4	0.12	0.43
(1,1378)	1:91:A:LEU:HD13	1:65:A:SER:HA	7	0.4	0.12	0.46
(1,1378)	1:91:A:LEU:HD12	1:65:A:SER:HA	7	0.4	0.12	0.46
(1,1378)	1:91:A:LEU:HD11	1:65:A:SER:HA	7	0.4	0.12	0.46
(1,6145)	1:91:A:LEU:HD13	1:65:A:SER:HA	7	0.4	0.12	0.46
(1,6145)	1:91:A:LEU:HD12	1:65:A:SER:HA	7	0.4	0.12	0.46
(1,6145)	1:91:A:LEU:HD11	1:65:A:SER:HA	7	0.4	0.12	0.46
(1,976)	1:75:A:ILE:HG21	1:78:A:THR:HB	7	0.33	0.09	0.37
(1,976)	1:75:A:ILE:HG22	1:78:A:THR:HB	7	0.33	0.09	0.37
(1,976)	1:75:A:ILE:HG23	1:78:A:THR:HB	7	0.33	0.09	0.37
(1,5743)	1:75:A:ILE:HG21	1:78:A:THR:HB	7	0.33	0.09	0.37
(1,5743)	1:75:A:ILE:HG22	1:78:A:THR:HB	7	0.33	0.09	0.37
(1,5743)	1:75:A:ILE:HG23	1:78:A:THR:HB	7	0.33	0.09	0.37
(1,2419)	1:35:A:SER:H	1:157:A:ILE:HD12	7	0.32	0.07	0.35

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2419)	1:35:A:SER:H	1:157:A:ILE:HD11	7	0.32	0.07	0.35
(1,2419)	1:35:A:SER:H	1:157:A:ILE:HD13	7	0.32	0.07	0.35
(1,7186)	1:35:A:SER:H	1:157:A:ILE:HD12	7	0.32	0.07	0.35
(1,7186)	1:35:A:SER:H	1:157:A:ILE:HD11	7	0.32	0.07	0.35
(1,7186)	1:35:A:SER:H	1:157:A:ILE:HD13	7	0.32	0.07	0.35
(1,416)	1:46:A:VAL:HG11	1:148:A:VAL:HG21	7	0.26	0.08	0.24
(1,416)	1:46:A:VAL:HG12	1:148:A:VAL:HG22	7	0.26	0.08	0.24
(1,416)	1:46:A:VAL:HG13	1:148:A:VAL:HG22	7	0.26	0.08	0.24
(1,416)	1:46:A:VAL:HG13	1:148:A:VAL:HG23	7	0.26	0.08	0.24
(1,416)	1:46:A:VAL:HG13	1:148:A:VAL:HG21	7	0.26	0.08	0.24
(1,5183)	1:46:A:VAL:HG11	1:148:A:VAL:HG21	7	0.26	0.08	0.24
(1,5183)	1:46:A:VAL:HG12	1:148:A:VAL:HG22	7	0.26	0.08	0.24
(1,5183)	1:46:A:VAL:HG13	1:148:A:VAL:HG22	7	0.26	0.08	0.24
(1,5183)	1:46:A:VAL:HG13	1:148:A:VAL:HG23	7	0.26	0.08	0.24
(1,5183)	1:46:A:VAL:HG13	1:148:A:VAL:HG21	7	0.26	0.08	0.24
(1,1877)	1:129:A:ALA:HB2	1:91:A:LEU:HA	7	0.23	0.06	0.23
(1,1877)	1:129:A:ALA:HB1	1:91:A:LEU:HA	7	0.23	0.06	0.23
(1,6644)	1:129:A:ALA:HB2	1:91:A:LEU:HA	7	0.23	0.06	0.23
(1,6644)	1:129:A:ALA:HB1	1:91:A:LEU:HA	7	0.23	0.06	0.23
(1,1059)	1:78:A:THR:HG23	1:82:A:GLN:HA	7	0.21	0.1	0.21
(1,1059)	1:78:A:THR:HG22	1:82:A:GLN:HA	7	0.21	0.1	0.21
(1,1059)	1:78:A:THR:HG21	1:82:A:GLN:HA	7	0.21	0.1	0.21
(1,5826)	1:78:A:THR:HG23	1:82:A:GLN:HA	7	0.21	0.1	0.21
(1,5826)	1:78:A:THR:HG22	1:82:A:GLN:HA	7	0.21	0.1	0.21
(1,5826)	1:78:A:THR:HG21	1:82:A:GLN:HA	7	0.21	0.1	0.21
(1,707)	1:64:A:ILE:HD11	1:152:A:LEU:HA	7	0.21	0.05	0.2
(1,707)	1:64:A:ILE:HD12	1:152:A:LEU:HA	7	0.21	0.05	0.2
(1,707)	1:64:A:ILE:HD13	1:152:A:LEU:HA	7	0.21	0.05	0.2
(1,5474)	1:64:A:ILE:HD11	1:152:A:LEU:HA	7	0.21	0.05	0.2
(1,5474)	1:64:A:ILE:HD12	1:152:A:LEU:HA	7	0.21	0.05	0.2
(1,5474)	1:64:A:ILE:HD13	1:152:A:LEU:HA	7	0.21	0.05	0.2
(1,750)	1:65:A:SER:HA	1:66:A:ILE:HD12	7	0.2	0.06	0.19
(1,750)	1:65:A:SER:HA	1:66:A:ILE:HD13	7	0.2	0.06	0.19
(1,750)	1:65:A:SER:HA	1:66:A:ILE:HD11	7	0.2	0.06	0.19
(1,5517)	1:65:A:SER:HA	1:66:A:ILE:HD12	7	0.2	0.06	0.19
(1,5517)	1:65:A:SER:HA	1:66:A:ILE:HD13	7	0.2	0.06	0.19
(1,5517)	1:65:A:SER:HA	1:66:A:ILE:HD11	7	0.2	0.06	0.19
(1,1931)	1:131:A:LEU:HD21	1:73:A:ALA:HA	7	0.2	0.07	0.19
(1,1931)	1:131:A:LEU:HD22	1:73:A:ALA:HA	7	0.2	0.07	0.19
(1,1931)	1:131:A:LEU:HD23	1:73:A:ALA:HA	7	0.2	0.07	0.19
(1,6698)	1:131:A:LEU:HD21	1:73:A:ALA:HA	7	0.2	0.07	0.19
(1,6698)	1:131:A:LEU:HD22	1:73:A:ALA:HA	7	0.2	0.07	0.19

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6698)	1:131:A:LEU:HD23	1:73:A:ALA:HA	7	0.2	0.07	0.19
(1,1496)	1:96:A:ASP:H	1:97:A:THR:HG21	7	0.2	0.05	0.19
(1,1496)	1:96:A:ASP:H	1:97:A:THR:HG23	7	0.2	0.05	0.19
(1,1496)	1:96:A:ASP:H	1:97:A:THR:HG22	7	0.2	0.05	0.19
(1,6263)	1:96:A:ASP:H	1:97:A:THR:HG21	7	0.2	0.05	0.19
(1,6263)	1:96:A:ASP:H	1:97:A:THR:HG23	7	0.2	0.05	0.19
(1,6263)	1:96:A:ASP:H	1:97:A:THR:HG22	7	0.2	0.05	0.19
(1,547)	1:52:A:VAL:HG12	1:53:A:ARG:HG3	7	0.19	0.06	0.19
(1,547)	1:52:A:VAL:HG11	1:53:A:ARG:HG3	7	0.19	0.06	0.19
(1,547)	1:52:A:VAL:HG13	1:53:A:ARG:HG3	7	0.19	0.06	0.19
(1,5314)	1:52:A:VAL:HG12	1:53:A:ARG:HG3	7	0.19	0.06	0.19
(1,5314)	1:52:A:VAL:HG11	1:53:A:ARG:HG3	7	0.19	0.06	0.19
(1,5314)	1:52:A:VAL:HG13	1:53:A:ARG:HG3	7	0.19	0.06	0.19
(1,1539)	1:101:A:SER:HB2	1:102:A:PHE:HA	7	0.17	0.01	0.18
(1,6306)	1:101:A:SER:HB2	1:102:A:PHE:HA	7	0.17	0.01	0.18
(1,3280)	1:55:A:GLN:HE21	1:151:A:THR:HG22	7	0.17	0.03	0.18
(1,3280)	1:55:A:GLN:HE21	1:151:A:THR:HG23	7	0.17	0.03	0.18
(1,3280)	1:55:A:GLN:HE21	1:151:A:THR:HG21	7	0.17	0.03	0.18
(1,8047)	1:55:A:GLN:HE21	1:151:A:THR:HG22	7	0.17	0.03	0.18
(1,8047)	1:55:A:GLN:HE21	1:151:A:THR:HG23	7	0.17	0.03	0.18
(1,8047)	1:55:A:GLN:HE21	1:151:A:THR:HG21	7	0.17	0.03	0.18
(1,4241)	1:142:A:ASN:HD21	1:127:A:THR:HG22	7	0.17	0.04	0.16
(1,4241)	1:142:A:ASN:HD21	1:127:A:THR:HG21	7	0.17	0.04	0.16
(1,4241)	1:142:A:ASN:HD21	1:127:A:THR:HG23	7	0.17	0.04	0.16
(1,9008)	1:142:A:ASN:HD21	1:127:A:THR:HG22	7	0.17	0.04	0.16
(1,9008)	1:142:A:ASN:HD21	1:127:A:THR:HG21	7	0.17	0.04	0.16
(1,9008)	1:142:A:ASN:HD21	1:127:A:THR:HG23	7	0.17	0.04	0.16
(1,2246)	1:149:A:GLU:HA	1:43:A:ALA:HB1	7	0.16	0.04	0.14
(1,2246)	1:149:A:GLU:HA	1:43:A:ALA:HB3	7	0.16	0.04	0.14
(1,2246)	1:149:A:GLU:HA	1:43:A:ALA:HB2	7	0.16	0.04	0.14
(1,7013)	1:149:A:GLU:HA	1:43:A:ALA:HB1	7	0.16	0.04	0.14
(1,7013)	1:149:A:GLU:HA	1:43:A:ALA:HB3	7	0.16	0.04	0.14
(1,7013)	1:149:A:GLU:HA	1:43:A:ALA:HB2	7	0.16	0.04	0.14
(1,241)	1:38:A:ILE:HD11	1:153:A:CYS:HB2	7	0.15	0.04	0.14
(1,241)	1:38:A:ILE:HD13	1:153:A:CYS:HB2	7	0.15	0.04	0.14
(1,5008)	1:38:A:ILE:HD11	1:153:A:CYS:HB2	7	0.15	0.04	0.14
(1,5008)	1:38:A:ILE:HD13	1:153:A:CYS:HB2	7	0.15	0.04	0.14
(1,4058)	1:130:A:PHE:H	1:139:A:LYS:HG2	7	0.13	0.01	0.13
(1,8825)	1:130:A:PHE:H	1:139:A:LYS:HG2	7	0.13	0.01	0.13
(1,1946)	1:131:A:LEU:HD22	1:131:A:LEU:HA	7	0.13	0.02	0.12
(1,1946)	1:131:A:LEU:HD23	1:131:A:LEU:HA	7	0.13	0.02	0.12
(1,1946)	1:131:A:LEU:HD21	1:131:A:LEU:HA	7	0.13	0.02	0.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,6713)	1:131:A:LEU:HD22	1:131:A:LEU:HA	7	0.13	0.02	0.12
(1,6713)	1:131:A:LEU:HD23	1:131:A:LEU:HA	7	0.13	0.02	0.12
(1,6713)	1:131:A:LEU:HD21	1:131:A:LEU:HA	7	0.13	0.02	0.12
(1,2405)	1:156:A:ALA:HB1	1:35:A:SER:HB2	6	0.49	0.18	0.53
(1,2405)	1:156:A:ALA:HB3	1:35:A:SER:HB2	6	0.49	0.18	0.53
(1,2405)	1:156:A:ALA:HB2	1:35:A:SER:HB2	6	0.49	0.18	0.53
(1,7172)	1:156:A:ALA:HB1	1:35:A:SER:HB2	6	0.49	0.18	0.53
(1,7172)	1:156:A:ALA:HB3	1:35:A:SER:HB2	6	0.49	0.18	0.53
(1,7172)	1:156:A:ALA:HB2	1:35:A:SER:HB2	6	0.49	0.18	0.53
(1,1090)	1:79:A:LEU:HD11	1:81:A:LYS:H	6	0.47	0.15	0.5
(1,1090)	1:79:A:LEU:HD12	1:81:A:LYS:H	6	0.47	0.15	0.5
(1,1090)	1:79:A:LEU:HD13	1:81:A:LYS:H	6	0.47	0.15	0.5
(1,5857)	1:79:A:LEU:HD11	1:81:A:LYS:H	6	0.47	0.15	0.5
(1,5857)	1:79:A:LEU:HD12	1:81:A:LYS:H	6	0.47	0.15	0.5
(1,5857)	1:79:A:LEU:HD13	1:81:A:LYS:H	6	0.47	0.15	0.5
(1,4508)	1:157:A:ILE:HD13	1:36:A:CYS:H	6	0.4	0.17	0.32
(1,4508)	1:157:A:ILE:HD12	1:36:A:CYS:H	6	0.4	0.17	0.32
(1,4508)	1:157:A:ILE:HD11	1:36:A:CYS:H	6	0.4	0.17	0.32
(1,4508)	1:32:A:PHE:H	1:157:A:ILE:HD12	6	0.4	0.17	0.32
(1,4508)	1:32:A:PHE:H	1:157:A:ILE:HD13	6	0.4	0.17	0.32
(1,4687)	1:157:A:ILE:HD13	1:36:A:CYS:H	6	0.4	0.17	0.32
(1,4687)	1:157:A:ILE:HD12	1:36:A:CYS:H	6	0.4	0.17	0.32
(1,4687)	1:157:A:ILE:HD11	1:36:A:CYS:H	6	0.4	0.17	0.32
(1,4687)	1:32:A:PHE:H	1:157:A:ILE:HD12	6	0.4	0.17	0.32
(1,4687)	1:32:A:PHE:H	1:157:A:ILE:HD13	6	0.4	0.17	0.32
(1,1399)	1:92:A:GLY:H	1:91:A:LEU:HD23	6	0.4	0.17	0.48
(1,1399)	1:92:A:GLY:H	1:91:A:LEU:HD21	6	0.4	0.17	0.48
(1,1399)	1:92:A:GLY:H	1:91:A:LEU:HD22	6	0.4	0.17	0.48
(1,6166)	1:92:A:GLY:H	1:91:A:LEU:HD23	6	0.4	0.17	0.48
(1,6166)	1:92:A:GLY:H	1:91:A:LEU:HD21	6	0.4	0.17	0.48
(1,6166)	1:92:A:GLY:H	1:91:A:LEU:HD22	6	0.4	0.17	0.48
(1,1800)	1:124:A:LEU:HD11	1:95:A:TYR:HD1	6	0.37	0.12	0.38
(1,1800)	1:124:A:LEU:HD12	1:95:A:TYR:HD1	6	0.37	0.12	0.38
(1,1800)	1:124:A:LEU:HD13	1:95:A:TYR:HD1	6	0.37	0.12	0.38
(1,6567)	1:124:A:LEU:HD11	1:95:A:TYR:HD1	6	0.37	0.12	0.38
(1,6567)	1:124:A:LEU:HD12	1:95:A:TYR:HD1	6	0.37	0.12	0.38
(1,6567)	1:124:A:LEU:HD13	1:95:A:TYR:HD1	6	0.37	0.12	0.38
(1,4054)	1:129:A:ALA:H	1:91:A:LEU:HD22	6	0.32	0.07	0.34
(1,4054)	1:129:A:ALA:H	1:91:A:LEU:HD21	6	0.32	0.07	0.34
(1,8821)	1:129:A:ALA:H	1:91:A:LEU:HD22	6	0.32	0.07	0.34
(1,8821)	1:129:A:ALA:H	1:91:A:LEU:HD21	6	0.32	0.07	0.34
(1,2390)	1:61:A:ALA:HB2	1:155:A:THR:HG22	6	0.28	0.07	0.29

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2390)	1:61:A:ALA:HB1	1:155:A:THR:HG23	6	0.28	0.07	0.29
(1,2390)	1:61:A:ALA:HB1	1:155:A:THR:HG22	6	0.28	0.07	0.29
(1,2390)	1:61:A:ALA:HB3	1:155:A:THR:HG22	6	0.28	0.07	0.29
(1,2390)	1:61:A:ALA:HB2	1:155:A:THR:HG23	6	0.28	0.07	0.29
(1,7157)	1:61:A:ALA:HB2	1:155:A:THR:HG22	6	0.28	0.07	0.29
(1,7157)	1:61:A:ALA:HB1	1:155:A:THR:HG23	6	0.28	0.07	0.29
(1,7157)	1:61:A:ALA:HB1	1:155:A:THR:HG22	6	0.28	0.07	0.29
(1,7157)	1:61:A:ALA:HB3	1:155:A:THR:HG22	6	0.28	0.07	0.29
(1,7157)	1:61:A:ALA:HB2	1:155:A:THR:HG23	6	0.28	0.07	0.29
(1,381)	1:55:A:GLN:HE22	1:44:A:ILE:HG21	6	0.26	0.08	0.27
(1,381)	1:55:A:GLN:HE22	1:44:A:ILE:HG22	6	0.26	0.08	0.27
(1,381)	1:55:A:GLN:HE22	1:44:A:ILE:HG23	6	0.26	0.08	0.27
(1,5148)	1:55:A:GLN:HE22	1:44:A:ILE:HG21	6	0.26	0.08	0.27
(1,5148)	1:55:A:GLN:HE22	1:44:A:ILE:HG22	6	0.26	0.08	0.27
(1,5148)	1:55:A:GLN:HE22	1:44:A:ILE:HG23	6	0.26	0.08	0.27
(1,225)	1:28:A:THR:HA	1:38:A:ILE:HD13	6	0.24	0.04	0.24
(1,225)	1:28:A:THR:HA	1:38:A:ILE:HD12	6	0.24	0.04	0.24
(1,225)	1:28:A:THR:HA	1:38:A:ILE:HD11	6	0.24	0.04	0.24
(1,4992)	1:28:A:THR:HA	1:38:A:ILE:HD13	6	0.24	0.04	0.24
(1,4992)	1:28:A:THR:HA	1:38:A:ILE:HD12	6	0.24	0.04	0.24
(1,4992)	1:28:A:THR:HA	1:38:A:ILE:HD11	6	0.24	0.04	0.24
(1,939)	1:74:A:PHE:HB3	1:73:A:ALA:HB1	6	0.23	0.05	0.26
(1,939)	1:74:A:PHE:HB3	1:73:A:ALA:HB2	6	0.23	0.05	0.26
(1,939)	1:74:A:PHE:HB3	1:73:A:ALA:HB3	6	0.23	0.05	0.26
(1,5706)	1:74:A:PHE:HB3	1:73:A:ALA:HB1	6	0.23	0.05	0.26
(1,5706)	1:74:A:PHE:HB3	1:73:A:ALA:HB2	6	0.23	0.05	0.26
(1,5706)	1:74:A:PHE:HB3	1:73:A:ALA:HB3	6	0.23	0.05	0.26
(1,1407)	1:91:A:LEU:HA	1:91:A:LEU:HD22	6	0.22	0.05	0.24
(1,1407)	1:91:A:LEU:HA	1:91:A:LEU:HD21	6	0.22	0.05	0.24
(1,6174)	1:91:A:LEU:HA	1:91:A:LEU:HD22	6	0.22	0.05	0.24
(1,6174)	1:91:A:LEU:HA	1:91:A:LEU:HD21	6	0.22	0.05	0.24
(1,1579)	1:103:A:LYS:HE3	1:103:A:LYS:HG2	6	0.21	0.01	0.22
(1,6346)	1:103:A:LYS:HE3	1:103:A:LYS:HG2	6	0.21	0.01	0.22
(1,4421)	1:49:A:ILE:HB	1:90:A:LEU:HD11	6	0.21	0.06	0.2
(1,4421)	1:49:A:ILE:HB	1:90:A:LEU:HD12	6	0.21	0.06	0.2
(1,4421)	1:49:A:ILE:HB	1:90:A:LEU:HD13	6	0.21	0.06	0.2
(1,4600)	1:49:A:ILE:HB	1:90:A:LEU:HD11	6	0.21	0.06	0.2
(1,4600)	1:49:A:ILE:HB	1:90:A:LEU:HD12	6	0.21	0.06	0.2
(1,4600)	1:49:A:ILE:HB	1:90:A:LEU:HD13	6	0.21	0.06	0.2
(1,3497)	1:72:A:ASN:HD21	1:131:A:LEU:HD11	6	0.2	0.03	0.2
(1,3497)	1:72:A:ASN:HD21	1:131:A:LEU:HD13	6	0.2	0.03	0.2
(1,3497)	1:72:A:ASN:HD21	1:131:A:LEU:HD12	6	0.2	0.03	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,8264)	1:72:A:ASN:HD21	1:131:A:LEU:HD11	6	0.2	0.03	0.2
(1,8264)	1:72:A:ASN:HD21	1:131:A:LEU:HD13	6	0.2	0.03	0.2
(1,8264)	1:72:A:ASN:HD21	1:131:A:LEU:HD12	6	0.2	0.03	0.2
(1,238)	1:40:A:LEU:H	1:38:A:ILE:HD11	6	0.2	0.07	0.16
(1,238)	1:40:A:LEU:H	1:38:A:ILE:HD13	6	0.2	0.07	0.16
(1,5005)	1:40:A:LEU:H	1:38:A:ILE:HD11	6	0.2	0.07	0.16
(1,5005)	1:40:A:LEU:H	1:38:A:ILE:HD13	6	0.2	0.07	0.16
(1,2686)	1:124:A:LEU:HD22	1:95:A:TYR:HE1	6	0.2	0.03	0.2
(1,2686)	1:124:A:LEU:HD21	1:95:A:TYR:HE1	6	0.2	0.03	0.2
(1,2686)	1:124:A:LEU:HD23	1:95:A:TYR:HE1	6	0.2	0.03	0.2
(1,7453)	1:124:A:LEU:HD22	1:95:A:TYR:HE1	6	0.2	0.03	0.2
(1,7453)	1:124:A:LEU:HD21	1:95:A:TYR:HE1	6	0.2	0.03	0.2
(1,7453)	1:124:A:LEU:HD23	1:95:A:TYR:HE1	6	0.2	0.03	0.2
(1,1939)	1:131:A:LEU:HD21	1:72:A:ASN:HD21	6	0.19	0.06	0.18
(1,1939)	1:131:A:LEU:HD22	1:72:A:ASN:HD21	6	0.19	0.06	0.18
(1,1939)	1:131:A:LEU:HD23	1:72:A:ASN:HD21	6	0.19	0.06	0.18
(1,6706)	1:131:A:LEU:HD21	1:72:A:ASN:HD21	6	0.19	0.06	0.18
(1,6706)	1:131:A:LEU:HD22	1:72:A:ASN:HD21	6	0.19	0.06	0.18
(1,6706)	1:131:A:LEU:HD23	1:72:A:ASN:HD21	6	0.19	0.06	0.18
(1,439)	1:48:A:SER:HA	1:46:A:VAL:HG11	6	0.18	0.04	0.18
(1,439)	1:48:A:SER:HA	1:46:A:VAL:HG12	6	0.18	0.04	0.18
(1,439)	1:48:A:SER:HA	1:46:A:VAL:HG13	6	0.18	0.04	0.18
(1,5206)	1:48:A:SER:HA	1:46:A:VAL:HG11	6	0.18	0.04	0.18
(1,5206)	1:48:A:SER:HA	1:46:A:VAL:HG12	6	0.18	0.04	0.18
(1,5206)	1:48:A:SER:HA	1:46:A:VAL:HG13	6	0.18	0.04	0.18
(1,260)	1:38:A:ILE:HG21	1:40:A:LEU:HA	6	0.15	0.02	0.15
(1,260)	1:38:A:ILE:HG22	1:40:A:LEU:HA	6	0.15	0.02	0.15
(1,260)	1:38:A:ILE:HG23	1:40:A:LEU:HA	6	0.15	0.02	0.15
(1,5027)	1:38:A:ILE:HG21	1:40:A:LEU:HA	6	0.15	0.02	0.15
(1,5027)	1:38:A:ILE:HG22	1:40:A:LEU:HA	6	0.15	0.02	0.15
(1,5027)	1:38:A:ILE:HG23	1:40:A:LEU:HA	6	0.15	0.02	0.15
(1,405)	1:46:A:VAL:HG13	1:52:A:VAL:HA	6	0.15	0.03	0.15
(1,405)	1:46:A:VAL:HG11	1:52:A:VAL:HA	6	0.15	0.03	0.15
(1,405)	1:46:A:VAL:HG12	1:52:A:VAL:HA	6	0.15	0.03	0.15
(1,2259)	1:148:A:VAL:HG12	1:149:A:GLU:HG3	6	0.15	0.01	0.16
(1,2259)	1:148:A:VAL:HG13	1:149:A:GLU:HG3	6	0.15	0.01	0.16
(1,2259)	1:148:A:VAL:HG11	1:149:A:GLU:HG3	6	0.15	0.01	0.16
(1,5172)	1:46:A:VAL:HG13	1:52:A:VAL:HA	6	0.15	0.03	0.15
(1,5172)	1:46:A:VAL:HG11	1:52:A:VAL:HA	6	0.15	0.03	0.15
(1,5172)	1:46:A:VAL:HG12	1:52:A:VAL:HA	6	0.15	0.03	0.15
(1,7026)	1:148:A:VAL:HG12	1:149:A:GLU:HG3	6	0.15	0.01	0.16
(1,7026)	1:148:A:VAL:HG13	1:149:A:GLU:HG3	6	0.15	0.01	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,7026)	1:148:A:VAL:HG11	1:149:A:GLU:HG3	6	0.15	0.01	0.16
(1,1152)	1:81:A:LYS:HD2	1:77:A:ASP:HB2	6	0.12	0.01	0.12
(1,5919)	1:81:A:LYS:HD2	1:77:A:ASP:HB2	6	0.12	0.01	0.12
(1,911)	1:72:A:ASN:HB2	1:113:A:ASP:HA	6	0.12	0.01	0.11
(1,2548)	1:32:A:PHE:HZ	1:74:A:PHE:HA	6	0.12	0.01	0.11
(1,5678)	1:72:A:ASN:HB2	1:113:A:ASP:HA	6	0.12	0.01	0.11
(1,7315)	1:32:A:PHE:HZ	1:74:A:PHE:HA	6	0.12	0.01	0.11
(1,1669)	1:113:A:ASP:HA	1:114:A:LYS:HB3	6	0.1	0.0	0.11
(1,6436)	1:113:A:ASP:HA	1:114:A:LYS:HB3	6	0.1	0.0	0.11
(1,115)	1:30:A:ILE:HG21	1:81:A:LYS:HE2	5	0.73	0.08	0.76
(1,115)	1:30:A:ILE:HG22	1:81:A:LYS:HE2	5	0.73	0.08	0.76
(1,4882)	1:30:A:ILE:HG21	1:81:A:LYS:HE2	5	0.73	0.08	0.76
(1,4882)	1:30:A:ILE:HG22	1:81:A:LYS:HE2	5	0.73	0.08	0.76
(1,1441)	1:93:A:MET:HB2	1:91:A:LEU:HD13	5	0.31	0.13	0.28
(1,1441)	1:93:A:MET:HB2	1:91:A:LEU:HD11	5	0.31	0.13	0.28
(1,1441)	1:93:A:MET:HB2	1:91:A:LEU:HD12	5	0.31	0.13	0.28
(1,6208)	1:93:A:MET:HB2	1:91:A:LEU:HD13	5	0.31	0.13	0.28
(1,6208)	1:93:A:MET:HB2	1:91:A:LEU:HD11	5	0.31	0.13	0.28
(1,6208)	1:93:A:MET:HB2	1:91:A:LEU:HD12	5	0.31	0.13	0.28
(1,3590)	1:81:A:LYS:H	1:81:A:LYS:HB2	5	0.25	0.02	0.25
(1,8357)	1:81:A:LYS:H	1:81:A:LYS:HB2	5	0.25	0.02	0.25
(1,638)	1:61:A:ALA:HA	1:155:A:THR:HG22	5	0.24	0.09	0.23
(1,638)	1:61:A:ALA:HA	1:155:A:THR:HG23	5	0.24	0.09	0.23
(1,5405)	1:61:A:ALA:HA	1:155:A:THR:HG22	5	0.24	0.09	0.23
(1,5405)	1:61:A:ALA:HA	1:155:A:THR:HG23	5	0.24	0.09	0.23
(1,1142)	1:81:A:LYS:HA	1:81:A:LYS:HG2	5	0.24	0.0	0.24
(1,5909)	1:81:A:LYS:HA	1:81:A:LYS:HG2	5	0.24	0.0	0.24
(1,782)	1:66:A:ILE:HD13	1:92:A:GLY:H	5	0.23	0.05	0.23
(1,782)	1:66:A:ILE:HD12	1:92:A:GLY:H	5	0.23	0.05	0.23
(1,782)	1:66:A:ILE:HD11	1:92:A:GLY:H	5	0.23	0.05	0.23
(1,5549)	1:66:A:ILE:HD13	1:92:A:GLY:H	5	0.23	0.05	0.23
(1,5549)	1:66:A:ILE:HD12	1:92:A:GLY:H	5	0.23	0.05	0.23
(1,5549)	1:66:A:ILE:HD11	1:92:A:GLY:H	5	0.23	0.05	0.23
(1,1046)	1:74:A:PHE:HA	1:77:A:ASP:HB3	5	0.22	0.01	0.22
(1,5813)	1:74:A:PHE:HA	1:77:A:ASP:HB3	5	0.22	0.01	0.22
(1,1771)	1:119:A:ASP:HB2	1:120:A:ASP:H	5	0.22	0.02	0.22
(1,6538)	1:119:A:ASP:HB2	1:120:A:ASP:H	5	0.22	0.02	0.22
(1,536)	1:52:A:VAL:HB	1:53:A:ARG:HG3	5	0.22	0.04	0.2
(1,5303)	1:52:A:VAL:HB	1:53:A:ARG:HG3	5	0.22	0.04	0.2
(1,3244)	1:55:A:GLN:H	1:53:A:ARG:HD2	5	0.21	0.01	0.21
(1,8011)	1:55:A:GLN:H	1:53:A:ARG:HD2	5	0.21	0.01	0.21
(1,2691)	1:102:A:PHE:HD1	1:124:A:LEU:HD23	5	0.19	0.08	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2691)	1:102:A:PHE:HD1	1:124:A:LEU:HD22	5	0.19	0.08	0.15
(1,2691)	1:102:A:PHE:HD1	1:124:A:LEU:HD21	5	0.19	0.08	0.15
(1,7458)	1:102:A:PHE:HD1	1:124:A:LEU:HD23	5	0.19	0.08	0.15
(1,7458)	1:102:A:PHE:HD1	1:124:A:LEU:HD22	5	0.19	0.08	0.15
(1,7458)	1:102:A:PHE:HD1	1:124:A:LEU:HD21	5	0.19	0.08	0.15
(1,3455)	1:71:A:GLU:H	1:66:A:ILE:HD11	5	0.17	0.06	0.14
(1,3455)	1:71:A:GLU:H	1:66:A:ILE:HD12	5	0.17	0.06	0.14
(1,8222)	1:71:A:GLU:H	1:66:A:ILE:HD11	5	0.17	0.06	0.14
(1,8222)	1:71:A:GLU:H	1:66:A:ILE:HD12	5	0.17	0.06	0.14
(1,2587)	1:40:A:LEU:HD21	1:59:A:HIS:HD2	5	0.16	0.04	0.18
(1,2587)	1:40:A:LEU:HD23	1:59:A:HIS:HD2	5	0.16	0.04	0.18
(1,7354)	1:40:A:LEU:HD21	1:59:A:HIS:HD2	5	0.16	0.04	0.18
(1,7354)	1:40:A:LEU:HD23	1:59:A:HIS:HD2	5	0.16	0.04	0.18
(1,3483)	1:72:A:ASN:HD22	1:66:A:ILE:HG23	5	0.16	0.03	0.16
(1,3483)	1:72:A:ASN:HD22	1:66:A:ILE:HG21	5	0.16	0.03	0.16
(1,8250)	1:72:A:ASN:HD22	1:66:A:ILE:HG23	5	0.16	0.03	0.16
(1,8250)	1:72:A:ASN:HD22	1:66:A:ILE:HG21	5	0.16	0.03	0.16
(1,2343)	1:153:A:CYS:HB3	1:152:A:LEU:HD12	5	0.16	0.02	0.15
(1,2343)	1:153:A:CYS:HB3	1:152:A:LEU:HD13	5	0.16	0.02	0.15
(1,2343)	1:153:A:CYS:HB3	1:152:A:LEU:HD11	5	0.16	0.02	0.15
(1,7110)	1:153:A:CYS:HB3	1:152:A:LEU:HD12	5	0.16	0.02	0.15
(1,7110)	1:153:A:CYS:HB3	1:152:A:LEU:HD13	5	0.16	0.02	0.15
(1,7110)	1:153:A:CYS:HB3	1:152:A:LEU:HD11	5	0.16	0.02	0.15
(1,4322)	1:153:A:CYS:H	1:38:A:ILE:HD11	5	0.14	0.04	0.14
(1,4322)	1:153:A:CYS:H	1:38:A:ILE:HD13	5	0.14	0.04	0.14
(1,9089)	1:153:A:CYS:H	1:38:A:ILE:HD11	5	0.14	0.04	0.14
(1,9089)	1:153:A:CYS:H	1:38:A:ILE:HD13	5	0.14	0.04	0.14
(1,1066)	1:78:A:THR:HG21	1:82:A:GLN:HB3	5	0.14	0.04	0.11
(1,1066)	1:78:A:THR:HG23	1:82:A:GLN:HB3	5	0.14	0.04	0.11
(1,5833)	1:78:A:THR:HG21	1:82:A:GLN:HB3	5	0.14	0.04	0.11
(1,5833)	1:78:A:THR:HG23	1:82:A:GLN:HB3	5	0.14	0.04	0.11
(1,1162)	1:81:A:LYS:HG3	1:82:A:GLN:H	5	0.13	0.0	0.13
(1,1443)	1:93:A:MET:HB2	1:93:A:MET:HE2	5	0.13	0.03	0.12
(1,1443)	1:93:A:MET:HB2	1:93:A:MET:HE3	5	0.13	0.03	0.12
(1,1443)	1:93:A:MET:HB2	1:93:A:MET:HE1	5	0.13	0.03	0.12
(1,5929)	1:81:A:LYS:HG3	1:82:A:GLN:H	5	0.13	0.0	0.13
(1,6210)	1:93:A:MET:HB2	1:93:A:MET:HE2	5	0.13	0.03	0.12
(1,6210)	1:93:A:MET:HB2	1:93:A:MET:HE3	5	0.13	0.03	0.12
(1,6210)	1:93:A:MET:HB2	1:93:A:MET:HE1	5	0.13	0.03	0.12
(1,3789)	1:101:A:SER:H	1:103:A:LYS:HD3	5	0.13	0.01	0.12
(1,8556)	1:101:A:SER:H	1:103:A:LYS:HD3	5	0.13	0.01	0.12
(1,3160)	1:49:A:ILE:H	1:144:A:GLU:HG2	5	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,7927)	1:49:A:ILE:H	1:144:A:GLU:HG2	5	0.12	0.01	0.12
(1,1156)	1:81:A:LYS:HE2	1:81:A:LYS:HG3	5	0.12	0.0	0.12
(1,3253)	1:55:A:GLN:H	1:55:A:GLN:HG2	5	0.12	0.01	0.12
(1,5923)	1:81:A:LYS:HE2	1:81:A:LYS:HG3	5	0.12	0.0	0.12
(1,8020)	1:55:A:GLN:H	1:55:A:GLN:HG2	5	0.12	0.01	0.12
(1,3337)	1:61:A:ALA:H	1:59:A:HIS:HA	5	0.12	0.02	0.11
(1,8104)	1:61:A:ALA:H	1:59:A:HIS:HA	5	0.12	0.02	0.11
(1,2183)	1:145:A:VAL:H	1:144:A:GLU:HA	5	0.11	0.01	0.11
(1,6950)	1:145:A:VAL:H	1:144:A:GLU:HA	5	0.11	0.01	0.11
(1,2288)	1:152:A:LEU:HB2	1:89:A:ILE:HA	5	0.11	0.01	0.11
(1,7055)	1:152:A:LEU:HB2	1:89:A:ILE:HA	5	0.11	0.01	0.11
(1,1532)	1:101:A:SER:HB3	1:100:A:ALA:HB2	4	0.56	0.2	0.66
(1,1532)	1:101:A:SER:HB3	1:100:A:ALA:HB1	4	0.56	0.2	0.66
(1,6299)	1:101:A:SER:HB3	1:100:A:ALA:HB2	4	0.56	0.2	0.66
(1,6299)	1:101:A:SER:HB3	1:100:A:ALA:HB1	4	0.56	0.2	0.66
(1,2727)	1:91:A:LEU:HD23	1:104:A:TRP:HZ2	4	0.52	0.05	0.53
(1,2727)	1:91:A:LEU:HD22	1:104:A:TRP:HZ2	4	0.52	0.05	0.53
(1,2727)	1:91:A:LEU:HD21	1:104:A:TRP:HZ2	4	0.52	0.05	0.53
(1,7494)	1:91:A:LEU:HD23	1:104:A:TRP:HZ2	4	0.52	0.05	0.53
(1,7494)	1:91:A:LEU:HD22	1:104:A:TRP:HZ2	4	0.52	0.05	0.53
(1,7494)	1:91:A:LEU:HD21	1:104:A:TRP:HZ2	4	0.52	0.05	0.53
(1,4549)	1:53:A:ARG:HE	1:62:A:ASP:HB2	4	0.49	0.04	0.5
(1,4728)	1:53:A:ARG:HE	1:62:A:ASP:HB2	4	0.49	0.04	0.5
(1,1405)	1:91:A:LEU:HD23	1:66:A:ILE:HB	4	0.4	0.02	0.4
(1,1405)	1:91:A:LEU:HD22	1:66:A:ILE:HB	4	0.4	0.02	0.4
(1,1405)	1:91:A:LEU:HD21	1:66:A:ILE:HB	4	0.4	0.02	0.4
(1,6172)	1:91:A:LEU:HD23	1:66:A:ILE:HB	4	0.4	0.02	0.4
(1,6172)	1:91:A:LEU:HD22	1:66:A:ILE:HB	4	0.4	0.02	0.4
(1,6172)	1:91:A:LEU:HD21	1:66:A:ILE:HB	4	0.4	0.02	0.4
(1,1529)	1:101:A:SER:HB2	1:103:A:LYS:HG2	4	0.39	0.04	0.4
(1,6296)	1:101:A:SER:HB2	1:103:A:LYS:HG2	4	0.39	0.04	0.4
(1,1916)	1:131:A:LEU:HD12	1:91:A:LEU:HD23	4	0.28	0.03	0.29
(1,1916)	1:131:A:LEU:HD13	1:91:A:LEU:HD23	4	0.28	0.03	0.29
(1,1916)	1:131:A:LEU:HD13	1:91:A:LEU:HD22	4	0.28	0.03	0.29
(1,6683)	1:131:A:LEU:HD12	1:91:A:LEU:HD23	4	0.28	0.03	0.29
(1,6683)	1:131:A:LEU:HD13	1:91:A:LEU:HD23	4	0.28	0.03	0.29
(1,6683)	1:131:A:LEU:HD13	1:91:A:LEU:HD22	4	0.28	0.03	0.29
(1,123)	1:31:A:GLN:HB2	1:157:A:ILE:HD11	4	0.28	0.13	0.24
(1,123)	1:31:A:GLN:HB2	1:157:A:ILE:HD13	4	0.28	0.13	0.24
(1,4890)	1:31:A:GLN:HB2	1:157:A:ILE:HD11	4	0.28	0.13	0.24
(1,4890)	1:31:A:GLN:HB2	1:157:A:ILE:HD13	4	0.28	0.13	0.24
(1,3705)	1:93:A:MET:H	1:93:A:MET:HG2	4	0.27	0.0	0.27

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,8472)	1:93:A:MET:H	1:93:A:MET:HG2	4	0.27	0.0	0.27
(1,4377)	1:156:A:ALA:H	1:155:A:THR:HG21	4	0.26	0.06	0.27
(1,4377)	1:156:A:ALA:H	1:155:A:THR:HG23	4	0.26	0.06	0.27
(1,9144)	1:156:A:ALA:H	1:155:A:THR:HG21	4	0.26	0.06	0.27
(1,9144)	1:156:A:ALA:H	1:155:A:THR:HG23	4	0.26	0.06	0.27
(1,65)	1:28:A:THR:HG23	1:38:A:ILE:HD11	4	0.26	0.06	0.24
(1,65)	1:28:A:THR:HG21	1:38:A:ILE:HD12	4	0.26	0.06	0.24
(1,65)	1:28:A:THR:HG22	1:38:A:ILE:HD11	4	0.26	0.06	0.24
(1,65)	1:28:A:THR:HG22	1:38:A:ILE:HD12	4	0.26	0.06	0.24
(1,4832)	1:28:A:THR:HG23	1:38:A:ILE:HD11	4	0.26	0.06	0.24
(1,4832)	1:28:A:THR:HG21	1:38:A:ILE:HD12	4	0.26	0.06	0.24
(1,4832)	1:28:A:THR:HG22	1:38:A:ILE:HD11	4	0.26	0.06	0.24
(1,4832)	1:28:A:THR:HG22	1:38:A:ILE:HD12	4	0.26	0.06	0.24
(1,846)	1:69:A:GLU:HB3	1:73:A:ALA:HB3	4	0.24	0.08	0.22
(1,846)	1:69:A:GLU:HB3	1:73:A:ALA:HB2	4	0.24	0.08	0.22
(1,5613)	1:69:A:GLU:HB3	1:73:A:ALA:HB3	4	0.24	0.08	0.22
(1,5613)	1:69:A:GLU:HB3	1:73:A:ALA:HB2	4	0.24	0.08	0.22
(1,158)	1:35:A:SER:HA	1:157:A:ILE:HD13	4	0.24	0.05	0.24
(1,158)	1:35:A:SER:HA	1:157:A:ILE:HD12	4	0.24	0.05	0.24
(1,4925)	1:35:A:SER:HA	1:157:A:ILE:HD13	4	0.24	0.05	0.24
(1,4925)	1:35:A:SER:HA	1:157:A:ILE:HD12	4	0.24	0.05	0.24
(1,2242)	1:148:A:VAL:HG22	1:147:A:SER:HB2	4	0.23	0.06	0.24
(1,2242)	1:148:A:VAL:HG21	1:147:A:SER:HB2	4	0.23	0.06	0.24
(1,3607)	1:82:A:GLN:HE22	1:30:A:ILE:HG22	4	0.23	0.08	0.22
(1,3607)	1:82:A:GLN:HE22	1:30:A:ILE:HG23	4	0.23	0.08	0.22
(1,7009)	1:148:A:VAL:HG22	1:147:A:SER:HB2	4	0.23	0.06	0.24
(1,7009)	1:148:A:VAL:HG21	1:147:A:SER:HB2	4	0.23	0.06	0.24
(1,8374)	1:82:A:GLN:HE22	1:30:A:ILE:HG22	4	0.23	0.08	0.22
(1,8374)	1:82:A:GLN:HE22	1:30:A:ILE:HG23	4	0.23	0.08	0.22
(1,1957)	1:91:A:LEU:HD22	1:131:A:LEU:HG	4	0.21	0.04	0.2
(1,1957)	1:91:A:LEU:HD21	1:131:A:LEU:HG	4	0.21	0.04	0.2
(1,6724)	1:91:A:LEU:HD22	1:131:A:LEU:HG	4	0.21	0.04	0.2
(1,6724)	1:91:A:LEU:HD21	1:131:A:LEU:HG	4	0.21	0.04	0.2
(1,479)	1:49:A:ILE:HG12	1:90:A:LEU:HD12	4	0.19	0.04	0.2
(1,479)	1:49:A:ILE:HG12	1:90:A:LEU:HD13	4	0.19	0.04	0.2
(1,5246)	1:49:A:ILE:HG12	1:90:A:LEU:HD12	4	0.19	0.04	0.2
(1,5246)	1:49:A:ILE:HG12	1:90:A:LEU:HD13	4	0.19	0.04	0.2
(1,4530)	1:31:A:GLN:H	1:31:A:GLN:HE21	4	0.19	0.03	0.19
(1,4709)	1:31:A:GLN:H	1:31:A:GLN:HE21	4	0.19	0.03	0.19
(1,4569)	1:96:A:ASP:H	1:95:A:TYR:HB3	4	0.19	0.04	0.16
(1,4748)	1:96:A:ASP:H	1:95:A:TYR:HB3	4	0.19	0.04	0.16
(1,805)	1:66:A:ILE:HG21	1:71:A:GLU:HB2	4	0.18	0.06	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,805)	1:66:A:ILE:HG22	1:71:A:GLU:HB2	4	0.18	0.06	0.16
(1,964)	1:75:A:ILE:HG13	1:71:A:GLU:HG2	4	0.18	0.0	0.18
(1,5572)	1:66:A:ILE:HG21	1:71:A:GLU:HB2	4	0.18	0.06	0.16
(1,5572)	1:66:A:ILE:HG22	1:71:A:GLU:HB2	4	0.18	0.06	0.16
(1,5731)	1:75:A:ILE:HG13	1:71:A:GLU:HG2	4	0.18	0.0	0.18
(1,1751)	1:115:A:TRP:HB3	1:116:A:THR:HG23	4	0.18	0.03	0.17
(1,1751)	1:115:A:TRP:HB3	1:116:A:THR:HG22	4	0.18	0.03	0.17
(1,6518)	1:115:A:TRP:HB3	1:116:A:THR:HG23	4	0.18	0.03	0.17
(1,6518)	1:115:A:TRP:HB3	1:116:A:THR:HG22	4	0.18	0.03	0.17
(1,1646)	1:111:A:THR:HG22	1:104:A:TRP:HD1	4	0.17	0.05	0.15
(1,1646)	1:111:A:THR:HG21	1:104:A:TRP:HD1	4	0.17	0.05	0.15
(1,1646)	1:111:A:THR:HG23	1:104:A:TRP:HD1	4	0.17	0.05	0.15
(1,6413)	1:111:A:THR:HG22	1:104:A:TRP:HD1	4	0.17	0.05	0.15
(1,6413)	1:111:A:THR:HG21	1:104:A:TRP:HD1	4	0.17	0.05	0.15
(1,6413)	1:111:A:THR:HG23	1:104:A:TRP:HD1	4	0.17	0.05	0.15
(1,1516)	1:100:A:ALA:HA	1:103:A:LYS:HE2	4	0.16	0.01	0.16
(1,6283)	1:100:A:ALA:HA	1:103:A:LYS:HE2	4	0.16	0.01	0.16
(1,1384)	1:91:A:LEU:HD13	1:91:A:LEU:HB3	4	0.16	0.02	0.16
(1,1384)	1:91:A:LEU:HD11	1:91:A:LEU:HB3	4	0.16	0.02	0.16
(1,1384)	1:91:A:LEU:HD12	1:91:A:LEU:HB3	4	0.16	0.02	0.16
(1,6151)	1:91:A:LEU:HD13	1:91:A:LEU:HB3	4	0.16	0.02	0.16
(1,6151)	1:91:A:LEU:HD11	1:91:A:LEU:HB3	4	0.16	0.02	0.16
(1,6151)	1:91:A:LEU:HD12	1:91:A:LEU:HB3	4	0.16	0.02	0.16
(1,87)	1:82:A:GLN:HE22	1:30:A:ILE:HD11	4	0.16	0.02	0.15
(1,87)	1:82:A:GLN:HE22	1:30:A:ILE:HD13	4	0.16	0.02	0.15
(1,87)	1:82:A:GLN:HE22	1:30:A:ILE:HD12	4	0.16	0.02	0.15
(1,4854)	1:82:A:GLN:HE22	1:30:A:ILE:HD11	4	0.16	0.02	0.15
(1,4854)	1:82:A:GLN:HE22	1:30:A:ILE:HD13	4	0.16	0.02	0.15
(1,4854)	1:82:A:GLN:HE22	1:30:A:ILE:HD12	4	0.16	0.02	0.15
(1,654)	1:61:A:ALA:HB2	1:155:A:THR:HA	4	0.15	0.06	0.12
(1,654)	1:61:A:ALA:HB1	1:155:A:THR:HA	4	0.15	0.06	0.12
(1,5421)	1:61:A:ALA:HB2	1:155:A:THR:HA	4	0.15	0.06	0.12
(1,5421)	1:61:A:ALA:HB1	1:155:A:THR:HA	4	0.15	0.06	0.12
(1,4432)	1:55:A:GLN:HB3	1:44:A:ILE:HG21	4	0.15	0.03	0.14
(1,4432)	1:55:A:GLN:HB3	1:44:A:ILE:HG23	4	0.15	0.03	0.14
(1,4611)	1:55:A:GLN:HB3	1:44:A:ILE:HG21	4	0.15	0.03	0.14
(1,4611)	1:55:A:GLN:HB3	1:44:A:ILE:HG23	4	0.15	0.03	0.14
(1,4385)	1:157:A:ILE:H	1:156:A:ALA:HB3	4	0.15	0.04	0.14
(1,4385)	1:157:A:ILE:H	1:156:A:ALA:HB2	4	0.15	0.04	0.14
(1,4385)	1:157:A:ILE:H	1:156:A:ALA:HB1	4	0.15	0.04	0.14
(1,9152)	1:157:A:ILE:H	1:156:A:ALA:HB3	4	0.15	0.04	0.14
(1,9152)	1:157:A:ILE:H	1:156:A:ALA:HB2	4	0.15	0.04	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,9152)	1:157:A:ILE:H	1:156:A:ALA:HB1	4	0.15	0.04	0.14
(1,4496)	1:142:A:ASN:HA	1:90:A:LEU:HD22	4	0.14	0.03	0.13
(1,4496)	1:142:A:ASN:HA	1:90:A:LEU:HD23	4	0.14	0.03	0.13
(1,4675)	1:142:A:ASN:HA	1:90:A:LEU:HD22	4	0.14	0.03	0.13
(1,4675)	1:142:A:ASN:HA	1:90:A:LEU:HD23	4	0.14	0.03	0.13
(1,1706)	1:72:A:ASN:HD21	1:114:A:LYS:HE2	4	0.14	0.01	0.15
(1,6473)	1:72:A:ASN:HD21	1:114:A:LYS:HE2	4	0.14	0.01	0.15
(1,2207)	1:145:A:VAL:HG23	1:143:A:CYS:H	4	0.14	0.03	0.13
(1,2207)	1:145:A:VAL:HG21	1:143:A:CYS:H	4	0.14	0.03	0.13
(1,2207)	1:145:A:VAL:HG22	1:143:A:CYS:H	4	0.14	0.03	0.13
(1,6974)	1:145:A:VAL:HG23	1:143:A:CYS:H	4	0.14	0.03	0.13
(1,6974)	1:145:A:VAL:HG21	1:143:A:CYS:H	4	0.14	0.03	0.13
(1,6974)	1:145:A:VAL:HG22	1:143:A:CYS:H	4	0.14	0.03	0.13
(1,1414)	1:91:A:LEU:HD22	1:131:A:LEU:HB2	4	0.14	0.04	0.12
(1,1414)	1:91:A:LEU:HD21	1:131:A:LEU:HB2	4	0.14	0.04	0.12
(1,2452)	1:159:A:TYR:H	1:158:A:PRO:HA	4	0.14	0.02	0.14
(1,6181)	1:91:A:LEU:HD22	1:131:A:LEU:HB2	4	0.14	0.04	0.12
(1,6181)	1:91:A:LEU:HD21	1:131:A:LEU:HB2	4	0.14	0.04	0.12
(1,7219)	1:159:A:TYR:H	1:158:A:PRO:HA	4	0.14	0.02	0.14
(1,2037)	1:135:A:THR:HG23	1:134:A:LYS:HA	4	0.13	0.02	0.13
(1,2037)	1:135:A:THR:HG22	1:134:A:LYS:HA	4	0.13	0.02	0.13
(1,2037)	1:135:A:THR:HG21	1:134:A:LYS:HA	4	0.13	0.02	0.13
(1,3797)	1:103:A:LYS:H	1:93:A:MET:HB2	4	0.13	0.01	0.12
(1,6804)	1:135:A:THR:HG23	1:134:A:LYS:HA	4	0.13	0.02	0.13
(1,6804)	1:135:A:THR:HG22	1:134:A:LYS:HA	4	0.13	0.02	0.13
(1,6804)	1:135:A:THR:HG21	1:134:A:LYS:HA	4	0.13	0.02	0.13
(1,8564)	1:103:A:LYS:H	1:93:A:MET:HB2	4	0.13	0.01	0.12
(1,4557)	1:73:A:ALA:H	1:76:A:LEU:HD21	4	0.13	0.03	0.12
(1,4557)	1:73:A:ALA:H	1:76:A:LEU:HD22	4	0.13	0.03	0.12
(1,4736)	1:73:A:ALA:H	1:76:A:LEU:HD21	4	0.13	0.03	0.12
(1,4736)	1:73:A:ALA:H	1:76:A:LEU:HD22	4	0.13	0.03	0.12
(1,1647)	1:111:A:THR:HG22	1:104:A:TRP:HE1	4	0.12	0.02	0.13
(1,1647)	1:111:A:THR:HG21	1:104:A:TRP:HE1	4	0.12	0.02	0.13
(1,1647)	1:111:A:THR:HG23	1:104:A:TRP:HE1	4	0.12	0.02	0.13
(1,6414)	1:111:A:THR:HG22	1:104:A:TRP:HE1	4	0.12	0.02	0.13
(1,6414)	1:111:A:THR:HG21	1:104:A:TRP:HE1	4	0.12	0.02	0.13
(1,6414)	1:111:A:THR:HG23	1:104:A:TRP:HE1	4	0.12	0.02	0.13
(1,4527)	1:138:A:TRP:HD1	1:114:A:LYS:H	4	0.12	0.01	0.12
(1,4706)	1:138:A:TRP:HD1	1:114:A:LYS:H	4	0.12	0.01	0.12
(1,1512)	1:99:A:ASP:HA	1:99:A:ASP:HB2	4	0.12	0.0	0.12
(1,6279)	1:99:A:ASP:HA	1:99:A:ASP:HB2	4	0.12	0.0	0.12
(1,390)	1:45:A:LYS:HD2	1:45:A:LYS:HE2	4	0.11	0.01	0.11

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5157)	1:45:A:LYS:HD2	1:45:A:LYS:HE2	4	0.11	0.01	0.11
(1,1530)	1:101:A:SER:HB2	1:100:A:ALA:HB1	3	0.47	0.07	0.47
(1,6297)	1:101:A:SER:HB2	1:100:A:ALA:HB1	3	0.47	0.07	0.47
(1,1061)	1:78:A:THR:HG21	1:37:A:TYR:HD1	3	0.31	0.06	0.33
(1,5828)	1:78:A:THR:HG21	1:37:A:TYR:HD1	3	0.31	0.06	0.33
(1,3609)	1:82:A:GLN:HE21	1:78:A:THR:HG23	3	0.3	0.07	0.25
(1,3609)	1:82:A:GLN:HE21	1:78:A:THR:HG22	3	0.3	0.07	0.25
(1,8376)	1:82:A:GLN:HE21	1:78:A:THR:HG23	3	0.3	0.07	0.25
(1,8376)	1:82:A:GLN:HE21	1:78:A:THR:HG22	3	0.3	0.07	0.25
(1,2501)	1:28:A:THR:HG23	1:29:A:TRP:HD1	3	0.27	0.15	0.23
(1,2501)	1:28:A:THR:HG22	1:29:A:TRP:HD1	3	0.27	0.15	0.23
(1,7268)	1:28:A:THR:HG23	1:29:A:TRP:HD1	3	0.27	0.15	0.23
(1,7268)	1:28:A:THR:HG22	1:29:A:TRP:HD1	3	0.27	0.15	0.23
(1,3443)	1:70:A:GLU:H	1:68:A:ASN:HB3	3	0.2	0.03	0.2
(1,8210)	1:70:A:GLU:H	1:68:A:ASN:HB3	3	0.2	0.03	0.2
(1,1880)	1:129:A:ALA:HB1	1:91:A:LEU:HD23	3	0.17	0.04	0.2
(1,1880)	1:129:A:ALA:HB1	1:91:A:LEU:HD21	3	0.17	0.04	0.2
(1,6647)	1:129:A:ALA:HB1	1:91:A:LEU:HD23	3	0.17	0.04	0.2
(1,6647)	1:129:A:ALA:HB1	1:91:A:LEU:HD21	3	0.17	0.04	0.2
(1,468)	1:49:A:ILE:HD11	1:143:A:CYS:HA	3	0.17	0.05	0.18
(1,468)	1:49:A:ILE:HD13	1:143:A:CYS:HA	3	0.17	0.05	0.18
(1,5235)	1:49:A:ILE:HD11	1:143:A:CYS:HA	3	0.17	0.05	0.18
(1,5235)	1:49:A:ILE:HD13	1:143:A:CYS:HA	3	0.17	0.05	0.18
(1,1720)	1:114:A:LYS:HE2	1:137:A:GLU:HG2	3	0.16	0.02	0.15
(1,3988)	1:118:A:GLN:HE22	1:139:A:LYS:H	3	0.16	0.04	0.15
(1,4009)	1:123:A:ASP:H	1:122:A:GLU:HG2	3	0.16	0.03	0.18
(1,6487)	1:114:A:LYS:HE2	1:137:A:GLU:HG2	3	0.16	0.02	0.15
(1,8755)	1:118:A:GLN:HE22	1:139:A:LYS:H	3	0.16	0.04	0.15
(1,8776)	1:123:A:ASP:H	1:122:A:GLU:HG2	3	0.16	0.03	0.18
(1,922)	1:74:A:PHE:H	1:73:A:ALA:HB1	3	0.15	0.0	0.15
(1,922)	1:74:A:PHE:H	1:73:A:ALA:HB2	3	0.15	0.0	0.15
(1,922)	1:74:A:PHE:H	1:73:A:ALA:HB3	3	0.15	0.0	0.15
(1,5689)	1:74:A:PHE:H	1:73:A:ALA:HB1	3	0.15	0.0	0.15
(1,5689)	1:74:A:PHE:H	1:73:A:ALA:HB2	3	0.15	0.0	0.15
(1,5689)	1:74:A:PHE:H	1:73:A:ALA:HB3	3	0.15	0.0	0.15
(1,2011)	1:80:A:LYS:HE2	1:133:A:ILE:HG21	3	0.15	0.04	0.13
(1,2011)	1:80:A:LYS:HE2	1:133:A:ILE:HG23	3	0.15	0.04	0.13
(1,6778)	1:80:A:LYS:HE2	1:133:A:ILE:HG21	3	0.15	0.04	0.13
(1,6778)	1:80:A:LYS:HE2	1:133:A:ILE:HG23	3	0.15	0.04	0.13
(1,4570)	1:96:A:ASP:H	1:103:A:LYS:HA	3	0.14	0.02	0.14
(1,4749)	1:96:A:ASP:H	1:103:A:LYS:HA	3	0.14	0.02	0.14
(1,1522)	1:100:A:ALA:H	1:100:A:ALA:HB1	3	0.13	0.03	0.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1522)	1:100:A:ALA:H	1:100:A:ALA:HB2	3	0.13	0.03	0.12
(1,6289)	1:100:A:ALA:H	1:100:A:ALA:HB1	3	0.13	0.03	0.12
(1,6289)	1:100:A:ALA:H	1:100:A:ALA:HB2	3	0.13	0.03	0.12
(1,2524)	1:29:A:TRP:HZ2	1:153:A:CYS:HB2	3	0.13	0.01	0.13
(1,3413)	1:68:A:ASN:H	1:66:A:ILE:HD11	3	0.13	0.01	0.13
(1,7291)	1:29:A:TRP:HZ2	1:153:A:CYS:HB2	3	0.13	0.01	0.13
(1,8180)	1:68:A:ASN:H	1:66:A:ILE:HD11	3	0.13	0.01	0.13
(1,2292)	1:78:A:THR:HG22	1:152:A:LEU:HD12	3	0.12	0.01	0.13
(1,2292)	1:78:A:THR:HG23	1:152:A:LEU:HD12	3	0.12	0.01	0.13
(1,2292)	1:78:A:THR:HG23	1:152:A:LEU:HD11	3	0.12	0.01	0.13
(1,7059)	1:78:A:THR:HG22	1:152:A:LEU:HD12	3	0.12	0.01	0.13
(1,7059)	1:78:A:THR:HG23	1:152:A:LEU:HD12	3	0.12	0.01	0.13
(1,7059)	1:78:A:THR:HG23	1:152:A:LEU:HD11	3	0.12	0.01	0.13
(1,1442)	1:93:A:MET:HB2	1:102:A:PHE:HD1	3	0.12	0.01	0.12
(1,2807)	1:135:A:THR:H	1:132:A:HIS:HD2	3	0.12	0.01	0.12
(1,4334)	1:154:A:LYS:H	1:38:A:ILE:HG21	3	0.12	0.01	0.12
(1,4334)	1:154:A:LYS:H	1:38:A:ILE:HG23	3	0.12	0.01	0.12
(1,4334)	1:154:A:LYS:H	1:38:A:ILE:HG22	3	0.12	0.01	0.12
(1,6209)	1:93:A:MET:HB2	1:102:A:PHE:HD1	3	0.12	0.01	0.12
(1,7574)	1:135:A:THR:H	1:132:A:HIS:HD2	3	0.12	0.01	0.12
(1,9101)	1:154:A:LYS:H	1:38:A:ILE:HG21	3	0.12	0.01	0.12
(1,9101)	1:154:A:LYS:H	1:38:A:ILE:HG23	3	0.12	0.01	0.12
(1,9101)	1:154:A:LYS:H	1:38:A:ILE:HG22	3	0.12	0.01	0.12
(1,3493)	1:72:A:ASN:HD21	1:114:A:LYS:HE3	3	0.12	0.01	0.11
(1,8260)	1:72:A:ASN:HD21	1:114:A:LYS:HE3	3	0.12	0.01	0.11
(1,1044)	1:77:A:ASP:HB2	1:81:A:LYS:HB3	3	0.11	0.01	0.12
(1,1815)	1:124:A:LEU:H	1:124:A:LEU:HG	3	0.11	0.0	0.11
(1,2889)	1:24:A:CYS:H	1:23:A:ASP:HA	3	0.11	0.0	0.11
(1,5811)	1:77:A:ASP:HB2	1:81:A:LYS:HB3	3	0.11	0.01	0.12
(1,6582)	1:124:A:LEU:H	1:124:A:LEU:HG	3	0.11	0.0	0.11
(1,7656)	1:24:A:CYS:H	1:23:A:ASP:HA	3	0.11	0.0	0.11
(1,1155)	1:81:A:LYS:HA	1:81:A:LYS:HE2	3	0.11	0.01	0.11
(1,2679)	1:100:A:ALA:H	1:95:A:TYR:HE1	3	0.11	0.01	0.11
(1,3774)	1:100:A:ALA:H	1:98:A:ASP:HB2	3	0.11	0.0	0.11
(1,5922)	1:81:A:LYS:HA	1:81:A:LYS:HE2	3	0.11	0.01	0.11
(1,7446)	1:100:A:ALA:H	1:95:A:TYR:HE1	3	0.11	0.01	0.11
(1,8541)	1:100:A:ALA:H	1:98:A:ASP:HB2	3	0.11	0.0	0.11
(1,927)	1:73:A:ALA:HA	1:73:A:ALA:HB1	3	0.11	0.01	0.1
(1,927)	1:73:A:ALA:HA	1:73:A:ALA:HB2	3	0.11	0.01	0.1
(1,1203)	1:85:A:GLY:HA3	1:86:A:PRO:HG3	3	0.11	0.01	0.1
(1,5694)	1:73:A:ALA:HA	1:73:A:ALA:HB1	3	0.11	0.01	0.1
(1,5694)	1:73:A:ALA:HA	1:73:A:ALA:HB2	3	0.11	0.01	0.1

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5970)	1:85:A:GLY:HA3	1:86:A:PRO:HG3	3	0.11	0.01	0.1
(1,2219)	1:146:A:SER:HA	1:146:A:SER:HB2	3	0.1	0.0	0.1
(1,6986)	1:146:A:SER:HA	1:146:A:SER:HB2	3	0.1	0.0	0.1
(1,112)	1:30:A:ILE:HG21	1:37:A:TYR:HD1	2	1.4	1.27	1.4
(1,112)	1:30:A:ILE:HG22	1:37:A:TYR:HD1	2	1.4	1.27	1.4
(1,4879)	1:30:A:ILE:HG21	1:37:A:TYR:HD1	2	1.4	1.27	1.4
(1,4879)	1:30:A:ILE:HG22	1:37:A:TYR:HD1	2	1.4	1.27	1.4
(1,2557)	1:37:A:TYR:HD1	1:35:A:SER:HB2	2	0.86	0.49	0.86
(1,7324)	1:37:A:TYR:HD1	1:35:A:SER:HB2	2	0.86	0.49	0.86
(1,2554)	1:35:A:SER:HB3	1:37:A:TYR:HD1	2	0.82	0.72	0.82
(1,7321)	1:35:A:SER:HB3	1:37:A:TYR:HD1	2	0.82	0.72	0.82
(1,1799)	1:124:A:LEU:HD13	1:120:A:ASP:HB2	2	0.6	0.12	0.6
(1,1799)	1:124:A:LEU:HD11	1:120:A:ASP:HB3	2	0.6	0.12	0.6
(1,6566)	1:124:A:LEU:HD13	1:120:A:ASP:HB2	2	0.6	0.12	0.6
(1,6566)	1:124:A:LEU:HD11	1:120:A:ASP:HB3	2	0.6	0.12	0.6
(1,1644)	1:109:A:ASN:HB2	1:111:A:THR:HG22	2	0.45	0.01	0.45
(1,6411)	1:109:A:ASN:HB2	1:111:A:THR:HG22	2	0.45	0.01	0.45
(1,2039)	1:135:A:THR:HG21	1:134:A:LYS:HE2	2	0.41	0.11	0.41
(1,2039)	1:135:A:THR:HG23	1:134:A:LYS:HE2	2	0.41	0.11	0.41
(1,6806)	1:135:A:THR:HG21	1:134:A:LYS:HE2	2	0.41	0.11	0.41
(1,6806)	1:135:A:THR:HG23	1:134:A:LYS:HE2	2	0.41	0.11	0.41
(1,4003)	1:121:A:ASP:H	1:124:A:LEU:HD11	2	0.32	0.02	0.32
(1,8770)	1:121:A:ASP:H	1:124:A:LEU:HD11	2	0.32	0.02	0.32
(1,61)	1:28:A:THR:HG22	1:29:A:TRP:HE1	2	0.27	0.12	0.27
(1,61)	1:28:A:THR:HG21	1:29:A:TRP:HE1	2	0.27	0.12	0.27
(1,2896)	1:24:A:CYS:H	1:157:A:ILE:HD11	2	0.27	0.0	0.27
(1,4828)	1:28:A:THR:HG22	1:29:A:TRP:HE1	2	0.27	0.12	0.27
(1,4828)	1:28:A:THR:HG21	1:29:A:TRP:HE1	2	0.27	0.12	0.27
(1,7663)	1:24:A:CYS:H	1:157:A:ILE:HD11	2	0.27	0.0	0.27
(1,2144)	1:140:A:LYS:HD2	1:124:A:LEU:HD13	2	0.26	0.02	0.26
(1,2144)	1:140:A:LYS:HD2	1:124:A:LEU:HD11	2	0.26	0.02	0.26
(1,6911)	1:140:A:LYS:HD2	1:124:A:LEU:HD13	2	0.26	0.02	0.26
(1,6911)	1:140:A:LYS:HD2	1:124:A:LEU:HD11	2	0.26	0.02	0.26
(1,3887)	1:109:A:ASN:H	1:109:A:ASN:HB2	2	0.24	0.01	0.24
(1,8654)	1:109:A:ASN:H	1:109:A:ASN:HB2	2	0.24	0.01	0.24
(1,1834)	1:142:A:ASN:HD21	1:125:A:VAL:HG23	2	0.2	0.03	0.2
(1,6601)	1:142:A:ASN:HD21	1:125:A:VAL:HG23	2	0.2	0.03	0.2
(1,2438)	1:157:A:ILE:HG22	1:23:A:ASP:HB2	2	0.19	0.02	0.19
(1,2438)	1:157:A:ILE:HG21	1:23:A:ASP:HB2	2	0.19	0.02	0.19
(1,7205)	1:157:A:ILE:HG22	1:23:A:ASP:HB2	2	0.19	0.02	0.19
(1,7205)	1:157:A:ILE:HG21	1:23:A:ASP:HB2	2	0.19	0.02	0.19
(1,2982)	1:31:A:GLN:HE21	1:157:A:ILE:HD11	2	0.18	0.02	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2982)	1:31:A:GLN:HE21	1:157:A:ILE:HD13	2	0.18	0.02	0.18
(1,4472)	1:86:A:PRO:HD3	1:133:A:ILE:HD11	2	0.18	0.06	0.18
(1,4651)	1:86:A:PRO:HD3	1:133:A:ILE:HD11	2	0.18	0.06	0.18
(1,7749)	1:31:A:GLN:HE21	1:157:A:ILE:HD11	2	0.18	0.02	0.18
(1,7749)	1:31:A:GLN:HE21	1:157:A:ILE:HD13	2	0.18	0.02	0.18
(1,190)	1:36:A:CYS:HB3	1:156:A:ALA:HA	2	0.17	0.03	0.17
(1,4957)	1:36:A:CYS:HB3	1:156:A:ALA:HA	2	0.17	0.03	0.17
(1,1037)	1:77:A:ASP:HA	1:76:A:LEU:HD21	2	0.16	0.0	0.16
(1,1037)	1:77:A:ASP:HA	1:76:A:LEU:HD23	2	0.16	0.0	0.16
(1,5804)	1:77:A:ASP:HA	1:76:A:LEU:HD21	2	0.16	0.0	0.16
(1,5804)	1:77:A:ASP:HA	1:76:A:LEU:HD23	2	0.16	0.0	0.16
(1,2447)	1:156:A:ALA:HB1	1:158:A:PRO:HA	2	0.16	0.05	0.16
(1,2447)	1:156:A:ALA:HB2	1:158:A:PRO:HA	2	0.16	0.05	0.16
(1,7214)	1:156:A:ALA:HB1	1:158:A:PRO:HA	2	0.16	0.05	0.16
(1,7214)	1:156:A:ALA:HB2	1:158:A:PRO:HA	2	0.16	0.05	0.16
(1,929)	1:74:A:PHE:HA	1:32:A:PHE:HE1	2	0.15	0.05	0.15
(1,4546)	1:43:A:ALA:H	1:149:A:GLU:HB3	2	0.15	0.02	0.15
(1,4725)	1:43:A:ALA:H	1:149:A:GLU:HB3	2	0.15	0.02	0.15
(1,5696)	1:74:A:PHE:HA	1:32:A:PHE:HE1	2	0.15	0.05	0.15
(1,1858)	1:90:A:LEU:HD12	1:128:A:CYS:HB2	2	0.15	0.04	0.15
(1,1858)	1:90:A:LEU:HD11	1:128:A:CYS:HB2	2	0.15	0.04	0.15
(1,6625)	1:90:A:LEU:HD12	1:128:A:CYS:HB2	2	0.15	0.04	0.15
(1,6625)	1:90:A:LEU:HD11	1:128:A:CYS:HB2	2	0.15	0.04	0.15
(1,2978)	1:31:A:GLN:HE21	1:31:A:GLN:HB2	2	0.15	0.0	0.15
(1,4536)	1:32:A:PHE:H	1:154:A:LYS:HG3	2	0.15	0.0	0.15
(1,4715)	1:32:A:PHE:H	1:154:A:LYS:HG3	2	0.15	0.0	0.15
(1,7745)	1:31:A:GLN:HE21	1:31:A:GLN:HB2	2	0.15	0.0	0.15
(1,1754)	1:117:A:ASP:H	1:116:A:THR:HG22	2	0.14	0.0	0.14
(1,1754)	1:117:A:ASP:H	1:116:A:THR:HG21	2	0.14	0.0	0.14
(1,4451)	1:70:A:GLU:HG3	1:33:A:GLN:HG3	2	0.14	0.0	0.14
(1,4630)	1:70:A:GLU:HG3	1:33:A:GLN:HG3	2	0.14	0.0	0.14
(1,6521)	1:117:A:ASP:H	1:116:A:THR:HG22	2	0.14	0.0	0.14
(1,6521)	1:117:A:ASP:H	1:116:A:THR:HG21	2	0.14	0.0	0.14
(1,4109)	1:133:A:ILE:H	1:87:A:ASP:HB2	2	0.14	0.01	0.14
(1,8876)	1:133:A:ILE:H	1:87:A:ASP:HB2	2	0.14	0.01	0.14
(1,1011)	1:76:A:LEU:HD12	1:136:A:GLY:HA3	2	0.13	0.02	0.13
(1,1011)	1:76:A:LEU:HD11	1:136:A:GLY:HA3	2	0.13	0.02	0.13
(1,2395)	1:36:A:CYS:HB2	1:155:A:THR:HG23	2	0.13	0.02	0.13
(1,3155)	1:48:A:SER:H	1:47:A:GLU:HB3	2	0.13	0.03	0.13
(1,3897)	1:109:A:ASN:HD22	1:111:A:THR:HA	2	0.13	0.0	0.13
(1,5778)	1:76:A:LEU:HD12	1:136:A:GLY:HA3	2	0.13	0.02	0.13
(1,5778)	1:76:A:LEU:HD11	1:136:A:GLY:HA3	2	0.13	0.02	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,7162)	1:36:A:CYS:HB2	1:155:A:THR:HG23	2	0.13	0.02	0.13
(1,7922)	1:48:A:SER:H	1:47:A:GLU:HB3	2	0.13	0.03	0.13
(1,8664)	1:109:A:ASN:HD22	1:111:A:THR:HA	2	0.13	0.0	0.13
(1,1028)	1:76:A:LEU:HD22	1:136:A:GLY:HA2	2	0.12	0.01	0.12
(1,1028)	1:76:A:LEU:HD23	1:136:A:GLY:HA2	2	0.12	0.01	0.12
(1,1408)	1:91:A:LEU:HB3	1:91:A:LEU:HD23	2	0.12	0.02	0.12
(1,1408)	1:91:A:LEU:HB3	1:91:A:LEU:HD22	2	0.12	0.02	0.12
(1,1581)	1:103:A:LYS:HG2	1:96:A:ASP:HB2	2	0.12	0.02	0.12
(1,3794)	1:102:A:PHE:H	1:102:A:PHE:HB3	2	0.12	0.01	0.12
(1,5795)	1:76:A:LEU:HD22	1:136:A:GLY:HA2	2	0.12	0.01	0.12
(1,5795)	1:76:A:LEU:HD23	1:136:A:GLY:HA2	2	0.12	0.01	0.12
(1,6175)	1:91:A:LEU:HB3	1:91:A:LEU:HD23	2	0.12	0.02	0.12
(1,6175)	1:91:A:LEU:HB3	1:91:A:LEU:HD22	2	0.12	0.02	0.12
(1,6348)	1:103:A:LYS:HG2	1:96:A:ASP:HB2	2	0.12	0.02	0.12
(1,8561)	1:102:A:PHE:H	1:102:A:PHE:HB3	2	0.12	0.01	0.12
(1,4014)	1:124:A:LEU:H	1:95:A:TYR:HD1	2	0.12	0.02	0.12
(1,8781)	1:124:A:LEU:H	1:95:A:TYR:HD1	2	0.12	0.02	0.12
(1,56)	1:29:A:TRP:H	1:28:A:THR:HG22	2	0.12	0.01	0.12
(1,56)	1:29:A:TRP:H	1:28:A:THR:HG21	2	0.12	0.01	0.12
(1,408)	1:46:A:VAL:HG12	1:47:A:GLU:HA	2	0.12	0.0	0.12
(1,408)	1:46:A:VAL:HG11	1:47:A:GLU:HA	2	0.12	0.0	0.12
(1,656)	1:62:A:ASP:HA	1:61:A:ALA:HB1	2	0.12	0.0	0.12
(1,656)	1:62:A:ASP:HA	1:61:A:ALA:HB2	2	0.12	0.0	0.12
(1,1051)	1:78:A:THR:HA	1:81:A:LYS:HB2	2	0.12	0.0	0.12
(1,2209)	1:145:A:VAL:HG21	1:143:A:CYS:HB2	2	0.12	0.0	0.12
(1,2209)	1:145:A:VAL:HG22	1:143:A:CYS:HB2	2	0.12	0.0	0.12
(1,4823)	1:29:A:TRP:H	1:28:A:THR:HG22	2	0.12	0.01	0.12
(1,4823)	1:29:A:TRP:H	1:28:A:THR:HG21	2	0.12	0.01	0.12
(1,5175)	1:46:A:VAL:HG12	1:47:A:GLU:HA	2	0.12	0.0	0.12
(1,5175)	1:46:A:VAL:HG11	1:47:A:GLU:HA	2	0.12	0.0	0.12
(1,5423)	1:62:A:ASP:HA	1:61:A:ALA:HB1	2	0.12	0.0	0.12
(1,5423)	1:62:A:ASP:HA	1:61:A:ALA:HB2	2	0.12	0.0	0.12
(1,5818)	1:78:A:THR:HA	1:81:A:LYS:HB2	2	0.12	0.0	0.12
(1,6976)	1:145:A:VAL:HG21	1:143:A:CYS:HB2	2	0.12	0.0	0.12
(1,6976)	1:145:A:VAL:HG22	1:143:A:CYS:HB2	2	0.12	0.0	0.12
(1,1779)	1:122:A:GLU:H	1:122:A:GLU:HB3	2	0.12	0.02	0.12
(1,6546)	1:122:A:GLU:H	1:122:A:GLU:HB3	2	0.12	0.02	0.12
(1,1487)	1:97:A:THR:HB	1:95:A:TYR:HD2	2	0.12	0.0	0.12
(1,1772)	1:118:A:GLN:HE21	1:120:A:ASP:HB2	2	0.12	0.0	0.12
(1,3654)	1:88:A:ASP:H	1:87:A:ASP:HB2	2	0.12	0.0	0.12
(1,6254)	1:97:A:THR:HB	1:95:A:TYR:HD2	2	0.12	0.0	0.12
(1,6539)	1:118:A:GLN:HE21	1:120:A:ASP:HB2	2	0.12	0.0	0.12

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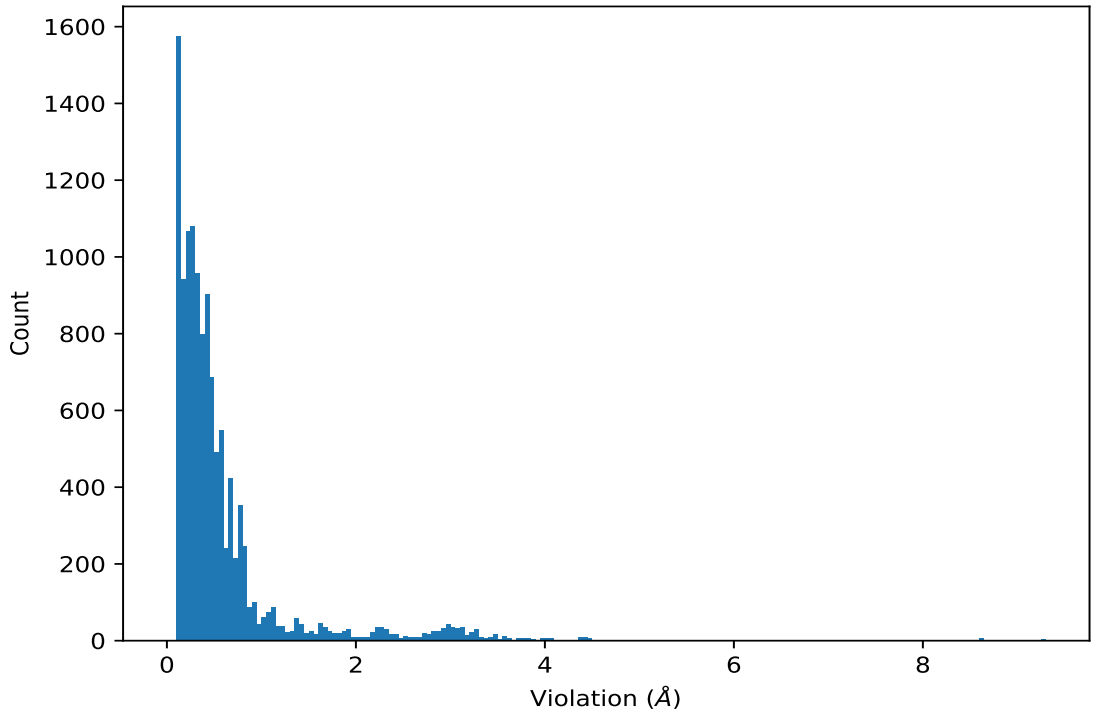
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,8421)	1:88:A:ASP:H	1:87:A:ASP:HB2	2	0.12	0.0	0.12
(1,1708)	1:114:A:LYS:HE3	1:114:A:LYS:HG3	2	0.11	0.01	0.11
(1,2458)	1:157:A:ILE:HG12	1:158:A:PRO:HD2	2	0.11	0.01	0.11
(1,3436)	1:68:A:ASN:HD22	1:70:A:GLU:HB3	2	0.11	0.0	0.11
(1,6475)	1:114:A:LYS:HE3	1:114:A:LYS:HG3	2	0.11	0.01	0.11
(1,7225)	1:157:A:ILE:HG12	1:158:A:PRO:HD2	2	0.11	0.01	0.11
(1,8203)	1:68:A:ASN:HD22	1:70:A:GLU:HB3	2	0.11	0.0	0.11
(1,1264)	1:88:A:ASP:HA	1:130:A:PHE:HB2	2	0.11	0.0	0.11
(1,1493)	1:97:A:THR:HB	1:99:A:ASP:H	2	0.11	0.0	0.11
(1,1809)	1:124:A:LEU:HD21	1:123:A:ASP:HA	2	0.11	0.0	0.11
(1,1809)	1:124:A:LEU:HD23	1:123:A:ASP:HA	2	0.11	0.0	0.11
(1,3131)	1:45:A:LYS:H	1:45:A:LYS:HE2	2	0.11	0.0	0.11
(1,3131)	1:45:A:LYS:H	1:45:A:LYS:HE3	2	0.11	0.0	0.11
(1,3715)	1:93:A:MET:H	1:94:A:PHE:HB2	2	0.11	0.0	0.11
(1,6031)	1:88:A:ASP:HA	1:130:A:PHE:HB2	2	0.11	0.0	0.11
(1,6260)	1:97:A:THR:HB	1:99:A:ASP:H	2	0.11	0.0	0.11
(1,6576)	1:124:A:LEU:HD21	1:123:A:ASP:HA	2	0.11	0.0	0.11
(1,6576)	1:124:A:LEU:HD23	1:123:A:ASP:HA	2	0.11	0.0	0.11
(1,7898)	1:45:A:LYS:H	1:45:A:LYS:HE2	2	0.11	0.0	0.11
(1,7898)	1:45:A:LYS:H	1:45:A:LYS:HE3	2	0.11	0.0	0.11
(1,8482)	1:93:A:MET:H	1:94:A:PHE:HB2	2	0.11	0.0	0.11
(1,2844)	1:138:A:TRP:HE3	1:138:A:TRP:HA	2	0.1	0.0	0.1
(1,7611)	1:138:A:TRP:HE3	1:138:A:TRP:HA	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)
(1,4690)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	1	9.29
(1,4511)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	1	9.29
(1,4690)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	2	9.26
(1,4511)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	2	9.26
(1,4690)	1:29:A:TRP:HZ2	1:31:A:GLN:HE21	6	9.24
(1,4511)	1:29:A:TRP:HZ2	1:31:A:GLN:HE21	6	9.24
(1,4690)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	7	8.83
(1,4511)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	7	8.83
(1,4690)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	8	8.73
(1,4511)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	8	8.73
(1,4690)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	3	8.64
(1,4511)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	3	8.64
(1,4690)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	5	8.61
(1,4690)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	9	8.61
(1,4511)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	5	8.61
(1,4511)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	9	8.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4690)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	4	8.44
(1,4511)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	4	8.44
(1,4690)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	10	8.24
(1,4511)	1:29:A:TRP:HZ2	1:82:A:GLN:HE21	10	8.24
(1,7385)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	6	4.45
(1,7385)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	10	4.45
(1,7302)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	4	4.45
(1,2618)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	6	4.45
(1,2618)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	10	4.45
(1,2535)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	4	4.45
(1,7385)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	5	4.43
(1,7385)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	9	4.43
(1,2618)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	5	4.43
(1,2618)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	9	4.43
(1,7385)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	1	4.42
(1,7385)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	3	4.42
(1,2618)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	1	4.42
(1,2618)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	3	4.42
(1,7385)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	2	4.39
(1,7385)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	4	4.39
(1,7385)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	8	4.39
(1,2618)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	2	4.39
(1,2618)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	4	4.39
(1,2618)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	8	4.39
(1,7385)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	7	4.38
(1,2618)	1:74:A:PHE:HE1	1:64:A:ILE:HG13	7	4.38
(1,5447)	1:63:A:MET:HE3	1:105:A:PHE:HD1	7	4.1
(1,680)	1:63:A:MET:HE3	1:105:A:PHE:HD1	7	4.1
(1,5447)	1:63:A:MET:HE2	1:105:A:PHE:HD1	1	4.09
(1,680)	1:63:A:MET:HE2	1:105:A:PHE:HD1	1	4.09
(1,5447)	1:63:A:MET:HE3	1:105:A:PHE:HD1	6	4.06
(1,680)	1:63:A:MET:HE3	1:105:A:PHE:HD1	6	4.06
(1,7302)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	3	4.02
(1,5447)	1:63:A:MET:HE3	1:105:A:PHE:HD1	10	4.02
(1,2535)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	3	4.02
(1,680)	1:63:A:MET:HE3	1:105:A:PHE:HD1	10	4.02
(1,7331)	1:32:A:PHE:HA	1:37:A:TYR:HE1	4	4.0
(1,2564)	1:32:A:PHE:HA	1:37:A:TYR:HE1	4	4.0
(1,7340)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	4	3.98
(1,2573)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	4	3.98
(1,7302)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	6	3.97
(1,5447)	1:63:A:MET:HE1	1:105:A:PHE:HD1	8	3.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2535)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	6	3.97
(1,680)	1:63:A:MET:HE1	1:105:A:PHE:HD1	8	3.97
(1,7302)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	7	3.94
(1,2535)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	7	3.94
(1,7302)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	10	3.87
(1,5447)	1:63:A:MET:HE2	1:105:A:PHE:HD1	5	3.87
(1,2535)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	10	3.87
(1,680)	1:63:A:MET:HE2	1:105:A:PHE:HD1	5	3.87
(1,5447)	1:63:A:MET:HE3	1:105:A:PHE:HD1	3	3.84
(1,680)	1:63:A:MET:HE3	1:105:A:PHE:HD1	3	3.84
(1,5447)	1:63:A:MET:HE2	1:105:A:PHE:HD1	4	3.83
(1,680)	1:63:A:MET:HE2	1:105:A:PHE:HD1	4	3.83
(1,7302)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	5	3.81
(1,2535)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	5	3.81
(1,7302)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	9	3.78
(1,2535)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	9	3.78
(1,5447)	1:63:A:MET:HE2	1:105:A:PHE:HD1	9	3.77
(1,680)	1:63:A:MET:HE2	1:105:A:PHE:HD1	9	3.77
(1,5447)	1:63:A:MET:HE3	1:105:A:PHE:HD1	2	3.76
(1,680)	1:63:A:MET:HE3	1:105:A:PHE:HD1	2	3.76
(1,7516)	1:105:A:PHE:HE1	1:63:A:MET:HE1	7	3.74
(1,2749)	1:105:A:PHE:HE1	1:63:A:MET:HE1	7	3.74
(1,7516)	1:105:A:PHE:HE1	1:63:A:MET:HE3	1	3.72
(1,2749)	1:105:A:PHE:HE1	1:63:A:MET:HE3	1	3.72
(1,7313)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	3	3.71
(1,2546)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	3	3.71
(1,7313)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	7	3.66
(1,2546)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	7	3.66
(1,7302)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	2	3.65
(1,2535)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	2	3.65
(1,7516)	1:105:A:PHE:HE1	1:63:A:MET:HE1	10	3.63
(1,2749)	1:105:A:PHE:HE1	1:63:A:MET:HE1	10	3.63
(1,7313)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	6	3.6
(1,2546)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	6	3.6
(1,7380)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	10	3.59
(1,7302)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	8	3.59
(1,2613)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	10	3.59
(1,2535)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	8	3.59
(1,7516)	1:105:A:PHE:HE1	1:63:A:MET:HE1	6	3.58
(1,7335)	1:37:A:TYR:HE1	1:31:A:GLN:HA	4	3.58
(1,7313)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	10	3.58
(1,2749)	1:105:A:PHE:HE1	1:63:A:MET:HE1	6	3.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2568)	1:37:A:TYR:HE1	1:31:A:GLN:HA	4	3.58
(1,2546)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	10	3.58
(1,7380)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	5	3.57
(1,2613)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	5	3.57
(1,7516)	1:105:A:PHE:HE1	1:63:A:MET:HE2	4	3.54
(1,2749)	1:105:A:PHE:HE1	1:63:A:MET:HE2	4	3.54
(1,7313)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	5	3.52
(1,2546)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	5	3.52
(1,7380)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	1	3.47
(1,7380)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	6	3.47
(1,7146)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	4	3.47
(1,2613)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	1	3.47
(1,2613)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	6	3.47
(1,2379)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	4	3.47
(1,7516)	1:105:A:PHE:HE1	1:63:A:MET:HE1	3	3.46
(1,7516)	1:105:A:PHE:HE1	1:63:A:MET:HE2	8	3.46
(1,7302)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	1	3.46
(1,2749)	1:105:A:PHE:HE1	1:63:A:MET:HE1	3	3.46
(1,2749)	1:105:A:PHE:HE1	1:63:A:MET:HE2	8	3.46
(1,2535)	1:71:A:GLU:HG2	1:32:A:PHE:HD1	1	3.46
(1,7516)	1:105:A:PHE:HE1	1:63:A:MET:HE1	2	3.45
(1,7380)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	4	3.45
(1,2749)	1:105:A:PHE:HE1	1:63:A:MET:HE1	2	3.45
(1,2613)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	4	3.45
(1,8280)	1:73:A:ALA:H	1:112:A:PHE:HE1	5	3.44
(1,7380)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	2	3.44
(1,3513)	1:73:A:ALA:H	1:112:A:PHE:HE1	5	3.44
(1,2613)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	2	3.44
(1,7146)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	8	3.43
(1,2379)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	8	3.43
(1,7516)	1:105:A:PHE:HE1	1:63:A:MET:HE3	5	3.42
(1,2749)	1:105:A:PHE:HE1	1:63:A:MET:HE3	5	3.42
(1,7313)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	9	3.41
(1,2546)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	9	3.41
(1,7380)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	3	3.39
(1,7146)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	9	3.39
(1,2613)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	3	3.39
(1,2379)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	9	3.39
(1,7313)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	2	3.37
(1,2546)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	2	3.37
(1,7380)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	7	3.34
(1,7380)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	9	3.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7146)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	1	3.34
(1,2613)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	7	3.34
(1,2613)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	9	3.34
(1,2379)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	1	3.34
(1,7516)	1:105:A:PHE:HE1	1:63:A:MET:HE3	9	3.33
(1,2749)	1:105:A:PHE:HE1	1:63:A:MET:HE3	9	3.33
(1,8280)	1:73:A:ALA:H	1:112:A:PHE:HE1	9	3.32
(1,3513)	1:73:A:ALA:H	1:112:A:PHE:HE1	9	3.32
(1,7146)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	2	3.3
(1,2379)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	2	3.3
(1,8280)	1:73:A:ALA:H	1:112:A:PHE:HE1	1	3.29
(1,8280)	1:73:A:ALA:H	1:112:A:PHE:HE1	3	3.29
(1,8280)	1:73:A:ALA:H	1:112:A:PHE:HE1	6	3.29
(1,7146)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	7	3.29
(1,5578)	1:66:A:ILE:HG22	1:112:A:PHE:HE1	1	3.29
(1,3513)	1:73:A:ALA:H	1:112:A:PHE:HE1	1	3.29
(1,3513)	1:73:A:ALA:H	1:112:A:PHE:HE1	3	3.29
(1,3513)	1:73:A:ALA:H	1:112:A:PHE:HE1	6	3.29
(1,2379)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	7	3.29
(1,811)	1:66:A:ILE:HG22	1:112:A:PHE:HE1	1	3.29
(1,7313)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	8	3.28
(1,2546)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	8	3.28
(1,8280)	1:73:A:ALA:H	1:112:A:PHE:HE1	2	3.27
(1,8280)	1:73:A:ALA:H	1:112:A:PHE:HE1	7	3.27
(1,3513)	1:73:A:ALA:H	1:112:A:PHE:HE1	2	3.27
(1,3513)	1:73:A:ALA:H	1:112:A:PHE:HE1	7	3.27
(1,8280)	1:73:A:ALA:H	1:112:A:PHE:HE1	8	3.26
(1,7146)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	3	3.26
(1,5578)	1:66:A:ILE:HG22	1:112:A:PHE:HE1	6	3.26
(1,5578)	1:66:A:ILE:HG23	1:112:A:PHE:HE1	9	3.26
(1,3513)	1:73:A:ALA:H	1:112:A:PHE:HE1	8	3.26
(1,2379)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	3	3.26
(1,811)	1:66:A:ILE:HG22	1:112:A:PHE:HE1	6	3.26
(1,811)	1:66:A:ILE:HG23	1:112:A:PHE:HE1	9	3.26
(1,7146)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	10	3.25
(1,4714)	1:32:A:PHE:H	1:75:A:ILE:HA	10	3.25
(1,4535)	1:32:A:PHE:H	1:75:A:ILE:HA	10	3.25
(1,2379)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	10	3.25
(1,4714)	1:32:A:PHE:H	1:75:A:ILE:HA	1	3.24
(1,4535)	1:32:A:PHE:H	1:75:A:ILE:HA	1	3.24
(1,7524)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	5	3.23
(1,7380)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	8	3.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4714)	1:32:A:PHE:H	1:75:A:ILE:HA	8	3.23
(1,4535)	1:32:A:PHE:H	1:75:A:ILE:HA	8	3.23
(1,2757)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	5	3.23
(1,2613)	1:75:A:ILE:HG13	1:74:A:PHE:HD1	8	3.23
(1,5578)	1:66:A:ILE:HG23	1:112:A:PHE:HE1	7	3.22
(1,811)	1:66:A:ILE:HG23	1:112:A:PHE:HE1	7	3.22
(1,4714)	1:32:A:PHE:H	1:75:A:ILE:HA	5	3.21
(1,4535)	1:32:A:PHE:H	1:75:A:ILE:HA	5	3.21
(1,7510)	1:93:A:MET:H	1:105:A:PHE:HD1	4	3.2
(1,7329)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	4	3.2
(1,7146)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	5	3.2
(1,5577)	1:66:A:ILE:HG22	1:112:A:PHE:HD1	1	3.2
(1,4714)	1:32:A:PHE:H	1:75:A:ILE:HA	6	3.2
(1,4535)	1:32:A:PHE:H	1:75:A:ILE:HA	6	3.2
(1,2743)	1:93:A:MET:H	1:105:A:PHE:HD1	4	3.2
(1,2562)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	4	3.2
(1,2379)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	5	3.2
(1,810)	1:66:A:ILE:HG22	1:112:A:PHE:HD1	1	3.2
(1,8280)	1:73:A:ALA:H	1:112:A:PHE:HE1	4	3.19
(1,5578)	1:66:A:ILE:HG23	1:112:A:PHE:HE1	4	3.19
(1,4714)	1:32:A:PHE:H	1:75:A:ILE:HA	9	3.19
(1,4535)	1:32:A:PHE:H	1:75:A:ILE:HA	9	3.19
(1,3513)	1:73:A:ALA:H	1:112:A:PHE:HE1	4	3.19
(1,811)	1:66:A:ILE:HG23	1:112:A:PHE:HE1	4	3.19
(1,5578)	1:66:A:ILE:HG22	1:112:A:PHE:HE1	2	3.18
(1,5578)	1:66:A:ILE:HG23	1:112:A:PHE:HE1	10	3.18
(1,811)	1:66:A:ILE:HG22	1:112:A:PHE:HE1	2	3.18
(1,811)	1:66:A:ILE:HG23	1:112:A:PHE:HE1	10	3.18
(1,5684)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	5	3.16
(1,5578)	1:66:A:ILE:HG21	1:112:A:PHE:HE1	5	3.16
(1,917)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	5	3.16
(1,811)	1:66:A:ILE:HG21	1:112:A:PHE:HE1	5	3.16
(1,7313)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	4	3.15
(1,5578)	1:66:A:ILE:HG23	1:112:A:PHE:HE1	3	3.15
(1,4714)	1:32:A:PHE:H	1:75:A:ILE:HA	2	3.15
(1,4535)	1:32:A:PHE:H	1:75:A:ILE:HA	2	3.15
(1,2546)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	4	3.15
(1,811)	1:66:A:ILE:HG23	1:112:A:PHE:HE1	3	3.15
(1,7527)	1:72:A:ASN:H	1:112:A:PHE:HE1	1	3.14
(1,7527)	1:72:A:ASN:H	1:112:A:PHE:HE1	5	3.14
(1,7524)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	9	3.14
(1,7510)	1:93:A:MET:H	1:105:A:PHE:HD1	1	3.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7510)	1:93:A:MET:H	1:105:A:PHE:HD1	3	3.14
(1,7510)	1:93:A:MET:H	1:105:A:PHE:HD1	6	3.14
(1,2760)	1:72:A:ASN:H	1:112:A:PHE:HE1	1	3.14
(1,2760)	1:72:A:ASN:H	1:112:A:PHE:HE1	5	3.14
(1,2757)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	9	3.14
(1,2743)	1:93:A:MET:H	1:105:A:PHE:HD1	1	3.14
(1,2743)	1:93:A:MET:H	1:105:A:PHE:HD1	3	3.14
(1,2743)	1:93:A:MET:H	1:105:A:PHE:HD1	6	3.14
(1,8469)	1:92:A:GLY:H	1:105:A:PHE:HD1	6	3.12
(1,8469)	1:92:A:GLY:H	1:105:A:PHE:HD1	10	3.12
(1,8280)	1:73:A:ALA:H	1:112:A:PHE:HE1	10	3.12
(1,7527)	1:72:A:ASN:H	1:112:A:PHE:HE1	6	3.12
(1,7527)	1:72:A:ASN:H	1:112:A:PHE:HE1	9	3.12
(1,7146)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	6	3.12
(1,5577)	1:66:A:ILE:HG21	1:112:A:PHE:HD1	5	3.12
(1,3702)	1:92:A:GLY:H	1:105:A:PHE:HD1	6	3.12
(1,3702)	1:92:A:GLY:H	1:105:A:PHE:HD1	10	3.12
(1,3513)	1:73:A:ALA:H	1:112:A:PHE:HE1	10	3.12
(1,2760)	1:72:A:ASN:H	1:112:A:PHE:HE1	6	3.12
(1,2760)	1:72:A:ASN:H	1:112:A:PHE:HE1	9	3.12
(1,2379)	1:154:A:LYS:HG3	1:74:A:PHE:HE1	6	3.12
(1,810)	1:66:A:ILE:HG21	1:112:A:PHE:HD1	5	3.12
(1,7524)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	6	3.1
(1,7510)	1:93:A:MET:H	1:105:A:PHE:HD1	10	3.1
(1,2757)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	6	3.1
(1,2743)	1:93:A:MET:H	1:105:A:PHE:HD1	10	3.1
(1,8469)	1:92:A:GLY:H	1:105:A:PHE:HD1	7	3.09
(1,7524)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	1	3.09
(1,5577)	1:66:A:ILE:HG22	1:112:A:PHE:HD1	6	3.09
(1,4714)	1:32:A:PHE:H	1:75:A:ILE:HA	7	3.09
(1,4535)	1:32:A:PHE:H	1:75:A:ILE:HA	7	3.09
(1,3702)	1:92:A:GLY:H	1:105:A:PHE:HD1	7	3.09
(1,2757)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	1	3.09
(1,810)	1:66:A:ILE:HG22	1:112:A:PHE:HD1	6	3.09
(1,7524)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	3	3.08
(1,5577)	1:66:A:ILE:HG23	1:112:A:PHE:HD1	4	3.08
(1,2757)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	3	3.08
(1,810)	1:66:A:ILE:HG23	1:112:A:PHE:HD1	4	3.08
(1,8469)	1:92:A:GLY:H	1:105:A:PHE:HD1	8	3.07
(1,7524)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	7	3.07
(1,7510)	1:93:A:MET:H	1:105:A:PHE:HD1	5	3.07
(1,5577)	1:66:A:ILE:HG23	1:112:A:PHE:HD1	10	3.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3702)	1:92:A:GLY:H	1:105:A:PHE:HD1	8	3.07
(1,2757)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	7	3.07
(1,2743)	1:93:A:MET:H	1:105:A:PHE:HD1	5	3.07
(1,810)	1:66:A:ILE:HG23	1:112:A:PHE:HD1	10	3.07
(1,8469)	1:92:A:GLY:H	1:105:A:PHE:HD1	1	3.06
(1,7510)	1:93:A:MET:H	1:105:A:PHE:HD1	2	3.06
(1,7510)	1:93:A:MET:H	1:105:A:PHE:HD1	9	3.06
(1,5578)	1:66:A:ILE:HG22	1:112:A:PHE:HE1	8	3.06
(1,5577)	1:66:A:ILE:HG22	1:112:A:PHE:HD1	2	3.06
(1,5577)	1:66:A:ILE:HG23	1:112:A:PHE:HD1	9	3.06
(1,3702)	1:92:A:GLY:H	1:105:A:PHE:HD1	1	3.06
(1,2743)	1:93:A:MET:H	1:105:A:PHE:HD1	2	3.06
(1,2743)	1:93:A:MET:H	1:105:A:PHE:HD1	9	3.06
(1,811)	1:66:A:ILE:HG22	1:112:A:PHE:HE1	8	3.06
(1,810)	1:66:A:ILE:HG22	1:112:A:PHE:HD1	2	3.06
(1,810)	1:66:A:ILE:HG23	1:112:A:PHE:HD1	9	3.06
(1,7524)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	8	3.05
(1,2757)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	8	3.05
(1,7524)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	10	3.04
(1,7510)	1:93:A:MET:H	1:105:A:PHE:HD1	8	3.04
(1,7504)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	4	3.04
(1,2757)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	10	3.04
(1,2743)	1:93:A:MET:H	1:105:A:PHE:HD1	8	3.04
(1,2737)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	4	3.04
(1,8469)	1:92:A:GLY:H	1:105:A:PHE:HD1	3	3.03
(1,7504)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	3	3.03
(1,7504)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	7	3.03
(1,5577)	1:66:A:ILE:HG23	1:112:A:PHE:HD1	7	3.03
(1,3702)	1:92:A:GLY:H	1:105:A:PHE:HD1	3	3.03
(1,2737)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	3	3.03
(1,2737)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	7	3.03
(1,810)	1:66:A:ILE:HG23	1:112:A:PHE:HD1	7	3.03
(1,7524)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	2	3.02
(1,7510)	1:93:A:MET:H	1:105:A:PHE:HD1	7	3.02
(1,7504)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	5	3.02
(1,4714)	1:32:A:PHE:H	1:75:A:ILE:HA	3	3.02
(1,4535)	1:32:A:PHE:H	1:75:A:ILE:HA	3	3.02
(1,2757)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	2	3.02
(1,2743)	1:93:A:MET:H	1:105:A:PHE:HD1	7	3.02
(1,2737)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	5	3.02
(1,7527)	1:72:A:ASN:H	1:112:A:PHE:HE1	2	3.01
(1,7504)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	1	3.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7320)	1:31:A:GLN:HA	1:37:A:TYR:HD1	4	3.01
(1,2760)	1:72:A:ASN:H	1:112:A:PHE:HE1	2	3.01
(1,2737)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	1	3.01
(1,2553)	1:31:A:GLN:HA	1:37:A:TYR:HD1	4	3.01
(1,6199)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	6	3.0
(1,6199)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	10	3.0
(1,1432)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	6	3.0
(1,1432)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	10	3.0
(1,7527)	1:72:A:ASN:H	1:112:A:PHE:HE1	3	2.99
(1,7504)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	2	2.99
(1,7504)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	8	2.99
(1,7504)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	9	2.99
(1,6199)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	8	2.99
(1,5684)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	1	2.99
(1,2760)	1:72:A:ASN:H	1:112:A:PHE:HE1	3	2.99
(1,2737)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	2	2.99
(1,2737)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	8	2.99
(1,2737)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	9	2.99
(1,1432)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	8	2.99
(1,917)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	1	2.99
(1,8469)	1:92:A:GLY:H	1:105:A:PHE:HD1	4	2.98
(1,7524)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	4	2.98
(1,7504)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	10	2.98
(1,5577)	1:66:A:ILE:HG23	1:112:A:PHE:HD1	3	2.98
(1,3702)	1:92:A:GLY:H	1:105:A:PHE:HD1	4	2.98
(1,2757)	1:72:A:ASN:HB2	1:112:A:PHE:HD1	4	2.98
(1,2737)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	10	2.98
(1,810)	1:66:A:ILE:HG23	1:112:A:PHE:HD1	3	2.98
(1,8469)	1:92:A:GLY:H	1:105:A:PHE:HD1	9	2.97
(1,5684)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	3	2.97
(1,5684)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	8	2.97
(1,3702)	1:92:A:GLY:H	1:105:A:PHE:HD1	9	2.97
(1,917)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	3	2.97
(1,917)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	8	2.97
(1,8469)	1:92:A:GLY:H	1:105:A:PHE:HD1	2	2.96
(1,7504)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	6	2.96
(1,6199)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	1	2.96
(1,6199)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	7	2.96
(1,5745)	1:75:A:ILE:HG21	1:74:A:PHE:HD1	3	2.96
(1,5745)	1:75:A:ILE:HG22	1:74:A:PHE:HD1	9	2.96
(1,5684)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	9	2.96
(1,3702)	1:92:A:GLY:H	1:105:A:PHE:HD1	2	2.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2737)	1:105:A:PHE:HD1	1:49:A:ILE:HG13	6	2.96
(1,1432)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	1	2.96
(1,1432)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	7	2.96
(1,978)	1:75:A:ILE:HG21	1:74:A:PHE:HD1	3	2.96
(1,978)	1:75:A:ILE:HG22	1:74:A:PHE:HD1	9	2.96
(1,917)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	9	2.96
(1,7527)	1:72:A:ASN:H	1:112:A:PHE:HE1	7	2.95
(1,2760)	1:72:A:ASN:H	1:112:A:PHE:HE1	7	2.95
(1,7644)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	10	2.94
(1,5745)	1:75:A:ILE:HG22	1:74:A:PHE:HD1	7	2.94
(1,5684)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	6	2.94
(1,5684)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	7	2.94
(1,2877)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	10	2.94
(1,978)	1:75:A:ILE:HG22	1:74:A:PHE:HD1	7	2.94
(1,917)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	6	2.94
(1,917)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	7	2.94
(1,8469)	1:92:A:GLY:H	1:105:A:PHE:HD1	5	2.93
(1,7313)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	1	2.93
(1,5745)	1:75:A:ILE:HG23	1:74:A:PHE:HD1	10	2.93
(1,3702)	1:92:A:GLY:H	1:105:A:PHE:HD1	5	2.93
(1,2546)	1:32:A:PHE:HE1	1:71:A:GLU:HB2	1	2.93
(1,978)	1:75:A:ILE:HG23	1:74:A:PHE:HD1	10	2.93
(1,7620)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	1	2.92
(1,7620)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	8	2.92
(1,7620)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	9	2.92
(1,5745)	1:75:A:ILE:HG23	1:74:A:PHE:HD1	4	2.92
(1,5745)	1:75:A:ILE:HG22	1:74:A:PHE:HD1	5	2.92
(1,5745)	1:75:A:ILE:HG21	1:74:A:PHE:HD1	8	2.92
(1,5577)	1:66:A:ILE:HG22	1:112:A:PHE:HD1	8	2.92
(1,2853)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	1	2.92
(1,2853)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	8	2.92
(1,2853)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	9	2.92
(1,978)	1:75:A:ILE:HG23	1:74:A:PHE:HD1	4	2.92
(1,978)	1:75:A:ILE:HG22	1:74:A:PHE:HD1	5	2.92
(1,978)	1:75:A:ILE:HG21	1:74:A:PHE:HD1	8	2.92
(1,810)	1:66:A:ILE:HG22	1:112:A:PHE:HD1	8	2.92
(1,6199)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	3	2.91
(1,5684)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	4	2.91
(1,1432)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	3	2.91
(1,917)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	4	2.91
(1,7620)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	4	2.9
(1,7527)	1:72:A:ASN:H	1:112:A:PHE:HE1	8	2.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6199)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	5	2.9
(1,6199)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	9	2.9
(1,5684)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	2	2.9
(1,5684)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	10	2.9
(1,2853)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	4	2.9
(1,2760)	1:72:A:ASN:H	1:112:A:PHE:HE1	8	2.9
(1,1432)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	5	2.9
(1,1432)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	9	2.9
(1,917)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	2	2.9
(1,917)	1:72:A:ASN:HB3	1:112:A:PHE:HD1	10	2.9
(1,7620)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	5	2.89
(1,7620)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	10	2.89
(1,6199)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	4	2.89
(1,2853)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	5	2.89
(1,2853)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	10	2.89
(1,1432)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	4	2.89
(1,7644)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	1	2.86
(1,7527)	1:72:A:ASN:H	1:112:A:PHE:HE1	10	2.86
(1,5745)	1:75:A:ILE:HG23	1:74:A:PHE:HD1	6	2.86
(1,2877)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	1	2.86
(1,2760)	1:72:A:ASN:H	1:112:A:PHE:HE1	10	2.86
(1,978)	1:75:A:ILE:HG23	1:74:A:PHE:HD1	6	2.86
(1,6199)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	2	2.85
(1,1432)	1:92:A:GLY:HA3	1:105:A:PHE:HE1	2	2.85
(1,7644)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	3	2.84
(1,7644)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	9	2.84
(1,7620)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	6	2.84
(1,7527)	1:72:A:ASN:H	1:112:A:PHE:HE1	4	2.84
(1,4703)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	2	2.84
(1,4524)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	2	2.84
(1,2877)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	3	2.84
(1,2877)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	9	2.84
(1,2853)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	6	2.84
(1,2760)	1:72:A:ASN:H	1:112:A:PHE:HE1	4	2.84
(1,7620)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	3	2.83
(1,7620)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	7	2.83
(1,7332)	1:35:A:SER:H	1:37:A:TYR:HE1	4	2.83
(1,2853)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	3	2.83
(1,2853)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	7	2.83
(1,2565)	1:35:A:SER:H	1:37:A:TYR:HE1	4	2.83
(1,7644)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	7	2.82
(1,7644)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	8	2.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2877)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	7	2.82
(1,2877)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	8	2.82
(1,5745)	1:75:A:ILE:HG22	1:74:A:PHE:HD1	1	2.81
(1,5745)	1:75:A:ILE:HG21	1:74:A:PHE:HD1	2	2.81
(1,4703)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	6	2.81
(1,4524)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	6	2.81
(1,978)	1:75:A:ILE:HG22	1:74:A:PHE:HD1	1	2.81
(1,978)	1:75:A:ILE:HG21	1:74:A:PHE:HD1	2	2.81
(1,7644)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	5	2.8
(1,2877)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	5	2.8
(1,7644)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	4	2.79
(1,7620)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	2	2.79
(1,4703)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	10	2.79
(1,4524)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	10	2.79
(1,2877)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	4	2.79
(1,2853)	1:138:A:TRP:HH2	1:112:A:PHE:HD1	2	2.79
(1,7644)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	2	2.78
(1,7644)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	6	2.78
(1,2877)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	2	2.78
(1,2877)	1:138:A:TRP:HZ3	1:112:A:PHE:HD1	6	2.78
(1,7336)	1:32:A:PHE:HB2	1:37:A:TYR:HE1	4	2.76
(1,2569)	1:32:A:PHE:HB2	1:37:A:TYR:HE1	4	2.76
(1,7764)	1:32:A:PHE:H	1:37:A:TYR:HE1	4	2.75
(1,2997)	1:32:A:PHE:H	1:37:A:TYR:HE1	4	2.75
(1,7509)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	6	2.74
(1,4703)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	1	2.74
(1,4703)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	7	2.74
(1,4524)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	1	2.74
(1,4524)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	7	2.74
(1,2742)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	6	2.74
(1,7509)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	10	2.73
(1,2742)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	10	2.73
(1,7509)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	7	2.72
(1,4703)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	3	2.72
(1,4703)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	8	2.72
(1,4703)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	9	2.72
(1,4524)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	3	2.72
(1,4524)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	8	2.72
(1,4524)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	9	2.72
(1,2742)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	7	2.72
(1,7509)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	1	2.71
(1,2742)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	1	2.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7509)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	8	2.7
(1,2742)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	8	2.7
(1,7506)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	6	2.69
(1,2739)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	6	2.69
(1,7506)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	10	2.68
(1,2739)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	10	2.68
(1,7506)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	1	2.67
(1,4703)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	4	2.67
(1,4524)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	4	2.67
(1,2739)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	1	2.67
(1,4879)	1:30:A:ILE:HG21	1:37:A:TYR:HD1	4	2.66
(1,112)	1:30:A:ILE:HG21	1:37:A:TYR:HD1	4	2.66
(1,7506)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	7	2.65
(1,2739)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	7	2.65
(1,7509)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	3	2.62
(1,2742)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	3	2.62
(1,7509)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	5	2.61
(1,7506)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	8	2.61
(1,2742)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	5	2.61
(1,2739)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	8	2.61
(1,7506)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	9	2.59
(1,2739)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	9	2.59
(1,7506)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	3	2.58
(1,7506)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	4	2.58
(1,2739)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	3	2.58
(1,2739)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	4	2.58
(1,7509)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	9	2.56
(1,4714)	1:32:A:PHE:H	1:75:A:ILE:HA	4	2.56
(1,4535)	1:32:A:PHE:H	1:75:A:ILE:HA	4	2.56
(1,2742)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	9	2.56
(1,7509)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	4	2.55
(1,7506)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	5	2.55
(1,2742)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	4	2.55
(1,2739)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	5	2.55
(1,4703)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	5	2.51
(1,4524)	1:112:A:PHE:HD1	1:104:A:TRP:HE1	5	2.51
(1,7509)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	2	2.5
(1,7508)	1:105:A:PHE:HD1	1:49:A:ILE:HD12	3	2.5
(1,7506)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	2	2.5
(1,2742)	1:92:A:GLY:HA3	1:105:A:PHE:HD1	2	2.5
(1,2741)	1:105:A:PHE:HD1	1:49:A:ILE:HD12	3	2.5
(1,2739)	1:92:A:GLY:HA2	1:105:A:PHE:HD1	2	2.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7508)	1:105:A:PHE:HD1	1:49:A:ILE:HD11	1	2.48
(1,2741)	1:105:A:PHE:HD1	1:49:A:ILE:HD11	1	2.48
(1,7304)	1:32:A:PHE:HD1	1:75:A:ILE:HD12	6	2.47
(1,5685)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	9	2.47
(1,2537)	1:32:A:PHE:HD1	1:75:A:ILE:HD12	6	2.47
(1,918)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	9	2.47
(1,5610)	1:69:A:GLU:HA	1:112:A:PHE:HD1	5	2.44
(1,843)	1:69:A:GLU:HA	1:112:A:PHE:HD1	5	2.44
(1,7508)	1:105:A:PHE:HD1	1:49:A:ILE:HD13	8	2.43
(1,2741)	1:105:A:PHE:HD1	1:49:A:ILE:HD13	8	2.43
(1,7508)	1:105:A:PHE:HD1	1:49:A:ILE:HD12	6	2.42
(1,7508)	1:105:A:PHE:HD1	1:49:A:ILE:HD13	7	2.42
(1,5686)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	5	2.42
(1,2741)	1:105:A:PHE:HD1	1:49:A:ILE:HD12	6	2.42
(1,2741)	1:105:A:PHE:HD1	1:49:A:ILE:HD13	7	2.42
(1,919)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	5	2.42
(1,7322)	1:36:A:CYS:HA	1:37:A:TYR:HD1	4	2.41
(1,7304)	1:32:A:PHE:HD1	1:75:A:ILE:HD11	7	2.41
(1,5685)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	5	2.41
(1,5685)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	6	2.41
(1,2555)	1:36:A:CYS:HA	1:37:A:TYR:HD1	4	2.41
(1,2537)	1:32:A:PHE:HD1	1:75:A:ILE:HD11	7	2.41
(1,918)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	5	2.41
(1,918)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	6	2.41
(1,8696)	1:114:A:LYS:H	1:112:A:PHE:HD1	10	2.39
(1,7508)	1:105:A:PHE:HD1	1:49:A:ILE:HD12	4	2.39
(1,3929)	1:114:A:LYS:H	1:112:A:PHE:HD1	10	2.39
(1,2741)	1:105:A:PHE:HD1	1:49:A:ILE:HD12	4	2.39
(1,7508)	1:105:A:PHE:HD1	1:49:A:ILE:HD12	5	2.38
(1,7304)	1:32:A:PHE:HD1	1:75:A:ILE:HD12	3	2.38
(1,2741)	1:105:A:PHE:HD1	1:49:A:ILE:HD12	5	2.38
(1,2537)	1:32:A:PHE:HD1	1:75:A:ILE:HD12	3	2.38
(1,8696)	1:114:A:LYS:H	1:112:A:PHE:HD1	7	2.36
(1,7300)	1:32:A:PHE:HD1	1:71:A:GLU:HA	6	2.36
(1,3929)	1:114:A:LYS:H	1:112:A:PHE:HD1	7	2.36
(1,2533)	1:32:A:PHE:HD1	1:71:A:GLU:HA	6	2.36
(1,7508)	1:105:A:PHE:HD1	1:49:A:ILE:HD11	9	2.35
(1,5686)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	9	2.35
(1,2741)	1:105:A:PHE:HD1	1:49:A:ILE:HD11	9	2.35
(1,919)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	9	2.35
(1,7300)	1:32:A:PHE:HD1	1:71:A:GLU:HA	3	2.34
(1,5685)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	1	2.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5685)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	7	2.34
(1,2533)	1:32:A:PHE:HD1	1:71:A:GLU:HA	3	2.34
(1,918)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	1	2.34
(1,918)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	7	2.34
(1,6198)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	6	2.33
(1,1431)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	6	2.33
(1,8696)	1:114:A:LYS:H	1:112:A:PHE:HD1	3	2.32
(1,7508)	1:105:A:PHE:HD1	1:49:A:ILE:HD11	2	2.32
(1,7508)	1:105:A:PHE:HD1	1:49:A:ILE:HD11	10	2.32
(1,7304)	1:32:A:PHE:HD1	1:75:A:ILE:HD11	8	2.32
(1,6198)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	10	2.32
(1,5686)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	6	2.32
(1,5685)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	3	2.32
(1,3929)	1:114:A:LYS:H	1:112:A:PHE:HD1	3	2.32
(1,2741)	1:105:A:PHE:HD1	1:49:A:ILE:HD11	2	2.32
(1,2741)	1:105:A:PHE:HD1	1:49:A:ILE:HD11	10	2.32
(1,2537)	1:32:A:PHE:HD1	1:75:A:ILE:HD11	8	2.32
(1,1431)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	10	2.32
(1,919)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	6	2.32
(1,918)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	3	2.32
(1,8696)	1:114:A:LYS:H	1:112:A:PHE:HD1	4	2.31
(1,7300)	1:32:A:PHE:HD1	1:71:A:GLU:HA	7	2.31
(1,5686)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	1	2.31
(1,4692)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	4	2.31
(1,4513)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	4	2.31
(1,3929)	1:114:A:LYS:H	1:112:A:PHE:HD1	4	2.31
(1,2533)	1:32:A:PHE:HD1	1:71:A:GLU:HA	7	2.31
(1,919)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	1	2.31
(1,7304)	1:32:A:PHE:HD1	1:75:A:ILE:HD12	10	2.3
(1,6198)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	9	2.3
(1,2537)	1:32:A:PHE:HD1	1:75:A:ILE:HD12	10	2.3
(1,1431)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	9	2.3
(1,6198)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	1	2.29
(1,5686)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	7	2.29
(1,1431)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	1	2.29
(1,919)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	7	2.29
(1,8696)	1:114:A:LYS:H	1:112:A:PHE:HD1	5	2.28
(1,8696)	1:114:A:LYS:H	1:112:A:PHE:HD1	6	2.28
(1,8696)	1:114:A:LYS:H	1:112:A:PHE:HD1	8	2.28
(1,8696)	1:114:A:LYS:H	1:112:A:PHE:HD1	9	2.28
(1,7337)	1:32:A:PHE:HB3	1:37:A:TYR:HE1	4	2.28
(1,5685)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	10	2.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3929)	1:114:A:LYS:H	1:112:A:PHE:HD1	5	2.28
(1,3929)	1:114:A:LYS:H	1:112:A:PHE:HD1	6	2.28
(1,3929)	1:114:A:LYS:H	1:112:A:PHE:HD1	8	2.28
(1,3929)	1:114:A:LYS:H	1:112:A:PHE:HD1	9	2.28
(1,2570)	1:32:A:PHE:HB3	1:37:A:TYR:HE1	4	2.28
(1,918)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	10	2.28
(1,6198)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	4	2.27
(1,5686)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	3	2.27
(1,1431)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	4	2.27
(1,919)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	3	2.27
(1,6198)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	8	2.26
(1,5610)	1:69:A:GLU:HA	1:112:A:PHE:HD1	1	2.26
(1,5610)	1:69:A:GLU:HA	1:112:A:PHE:HD1	9	2.26
(1,4946)	1:36:A:CYS:HA	1:37:A:TYR:HE1	4	2.26
(1,1431)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	8	2.26
(1,843)	1:69:A:GLU:HA	1:112:A:PHE:HD1	1	2.26
(1,843)	1:69:A:GLU:HA	1:112:A:PHE:HD1	9	2.26
(1,179)	1:36:A:CYS:HA	1:37:A:TYR:HE1	4	2.26
(1,5686)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	8	2.25
(1,5685)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	2	2.25
(1,919)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	8	2.25
(1,918)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	2	2.25
(1,8696)	1:114:A:LYS:H	1:112:A:PHE:HD1	1	2.24
(1,7304)	1:32:A:PHE:HD1	1:75:A:ILE:HD13	5	2.24
(1,7301)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	10	2.24
(1,6198)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	3	2.24
(1,6198)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	7	2.24
(1,5685)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	8	2.24
(1,3929)	1:114:A:LYS:H	1:112:A:PHE:HD1	1	2.24
(1,2537)	1:32:A:PHE:HD1	1:75:A:ILE:HD13	5	2.24
(1,2534)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	10	2.24
(1,1431)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	3	2.24
(1,1431)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	7	2.24
(1,918)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	8	2.24
(1,7300)	1:32:A:PHE:HD1	1:71:A:GLU:HA	10	2.23
(1,5610)	1:69:A:GLU:HA	1:112:A:PHE:HD1	8	2.23
(1,2533)	1:32:A:PHE:HD1	1:71:A:GLU:HA	10	2.23
(1,843)	1:69:A:GLU:HA	1:112:A:PHE:HD1	8	2.23
(1,5610)	1:69:A:GLU:HA	1:112:A:PHE:HD1	6	2.22
(1,843)	1:69:A:GLU:HA	1:112:A:PHE:HD1	6	2.22
(1,8696)	1:114:A:LYS:H	1:112:A:PHE:HD1	2	2.21
(1,7763)	1:32:A:PHE:H	1:37:A:TYR:HD1	4	2.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7300)	1:32:A:PHE:HD1	1:71:A:GLU:HA	5	2.21
(1,5686)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	2	2.21
(1,3929)	1:114:A:LYS:H	1:112:A:PHE:HD1	2	2.21
(1,2996)	1:32:A:PHE:H	1:37:A:TYR:HD1	4	2.21
(1,2533)	1:32:A:PHE:HD1	1:71:A:GLU:HA	5	2.21
(1,919)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	2	2.21
(1,7301)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	5	2.2
(1,6198)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	2	2.2
(1,6198)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	5	2.2
(1,5610)	1:69:A:GLU:HA	1:112:A:PHE:HD1	3	2.2
(1,2534)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	5	2.2
(1,1431)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	2	2.2
(1,1431)	1:92:A:GLY:HA2	1:105:A:PHE:HE1	5	2.2
(1,843)	1:69:A:GLU:HA	1:112:A:PHE:HD1	3	2.2
(1,7732)	1:31:A:GLN:H	1:37:A:TYR:HD1	4	2.19
(1,7304)	1:32:A:PHE:HD1	1:75:A:ILE:HD11	2	2.19
(1,5686)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	10	2.19
(1,5685)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	4	2.19
(1,5611)	1:69:A:GLU:HA	1:112:A:PHE:HE1	5	2.19
(1,2965)	1:31:A:GLN:H	1:37:A:TYR:HD1	4	2.19
(1,2537)	1:32:A:PHE:HD1	1:75:A:ILE:HD11	2	2.19
(1,919)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	10	2.19
(1,918)	1:72:A:ASN:HB2	1:112:A:PHE:HE1	4	2.19
(1,844)	1:69:A:GLU:HA	1:112:A:PHE:HE1	5	2.19
(1,5686)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	4	2.18
(1,919)	1:72:A:ASN:HB3	1:112:A:PHE:HE1	4	2.18
(1,7301)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	9	2.17
(1,2534)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	9	2.17
(1,5610)	1:69:A:GLU:HA	1:112:A:PHE:HD1	4	2.16
(1,843)	1:69:A:GLU:HA	1:112:A:PHE:HD1	4	2.16
(1,7304)	1:32:A:PHE:HD1	1:75:A:ILE:HD13	4	2.15
(1,5610)	1:69:A:GLU:HA	1:112:A:PHE:HD1	2	2.15
(1,5610)	1:69:A:GLU:HA	1:112:A:PHE:HD1	7	2.15
(1,2537)	1:32:A:PHE:HD1	1:75:A:ILE:HD13	4	2.15
(1,843)	1:69:A:GLU:HA	1:112:A:PHE:HD1	2	2.15
(1,843)	1:69:A:GLU:HA	1:112:A:PHE:HD1	7	2.15
(1,5611)	1:69:A:GLU:HA	1:112:A:PHE:HE1	1	2.14
(1,844)	1:69:A:GLU:HA	1:112:A:PHE:HE1	1	2.14
(1,5611)	1:69:A:GLU:HA	1:112:A:PHE:HE1	9	2.12
(1,5610)	1:69:A:GLU:HA	1:112:A:PHE:HD1	10	2.12
(1,844)	1:69:A:GLU:HA	1:112:A:PHE:HE1	9	2.12
(1,843)	1:69:A:GLU:HA	1:112:A:PHE:HD1	10	2.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7301)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	4	2.11
(1,2534)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	4	2.11
(1,7301)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	2	2.08
(1,2534)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	2	2.08
(1,7300)	1:32:A:PHE:HD1	1:71:A:GLU:HA	2	2.07
(1,2533)	1:32:A:PHE:HD1	1:71:A:GLU:HA	2	2.07
(1,7304)	1:32:A:PHE:HD1	1:75:A:ILE:HD11	9	2.06
(1,7300)	1:32:A:PHE:HD1	1:71:A:GLU:HA	8	2.06
(1,2537)	1:32:A:PHE:HD1	1:75:A:ILE:HD11	9	2.06
(1,2533)	1:32:A:PHE:HD1	1:71:A:GLU:HA	8	2.06
(1,7300)	1:32:A:PHE:HD1	1:71:A:GLU:HA	9	2.05
(1,5611)	1:69:A:GLU:HA	1:112:A:PHE:HE1	6	2.05
(1,2533)	1:32:A:PHE:HD1	1:71:A:GLU:HA	9	2.05
(1,844)	1:69:A:GLU:HA	1:112:A:PHE:HE1	6	2.05
(1,7301)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	1	2.02
(1,2534)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	1	2.02
(1,7304)	1:32:A:PHE:HD1	1:75:A:ILE:HD12	1	2.01
(1,2537)	1:32:A:PHE:HD1	1:75:A:ILE:HD12	1	2.01
(1,5719)	1:75:A:ILE:HB	1:74:A:PHE:HD1	10	2.0
(1,952)	1:75:A:ILE:HB	1:74:A:PHE:HD1	10	2.0
(1,7340)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	9	1.97
(1,7323)	1:32:A:PHE:HB3	1:37:A:TYR:HD1	4	1.97
(1,5719)	1:75:A:ILE:HB	1:74:A:PHE:HD1	3	1.97
(1,5719)	1:75:A:ILE:HB	1:74:A:PHE:HD1	5	1.97
(1,5437)	1:63:A:MET:HB3	1:105:A:PHE:HD1	10	1.97
(1,2573)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	9	1.97
(1,2556)	1:32:A:PHE:HB3	1:37:A:TYR:HD1	4	1.97
(1,952)	1:75:A:ILE:HB	1:74:A:PHE:HD1	3	1.97
(1,952)	1:75:A:ILE:HB	1:74:A:PHE:HD1	5	1.97
(1,670)	1:63:A:MET:HB3	1:105:A:PHE:HD1	10	1.97
(1,5719)	1:75:A:ILE:HB	1:74:A:PHE:HD1	7	1.95
(1,5611)	1:69:A:GLU:HA	1:112:A:PHE:HE1	8	1.95
(1,952)	1:75:A:ILE:HB	1:74:A:PHE:HD1	7	1.95
(1,844)	1:69:A:GLU:HA	1:112:A:PHE:HE1	8	1.95
(1,5719)	1:75:A:ILE:HB	1:74:A:PHE:HD1	6	1.94
(1,952)	1:75:A:ILE:HB	1:74:A:PHE:HD1	6	1.94
(1,7340)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	5	1.93
(1,7301)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	6	1.93
(1,7301)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	8	1.93
(1,7082)	1:152:A:LEU:HD23	1:74:A:PHE:HE1	4	1.93
(1,2573)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	5	1.93
(1,2534)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	6	1.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2534)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	8	1.93
(1,2315)	1:152:A:LEU:HD23	1:74:A:PHE:HE1	4	1.93
(1,7301)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	7	1.92
(1,5437)	1:63:A:MET:HB3	1:105:A:PHE:HD1	1	1.92
(1,5437)	1:63:A:MET:HB3	1:105:A:PHE:HD1	6	1.92
(1,2534)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	7	1.92
(1,670)	1:63:A:MET:HB3	1:105:A:PHE:HD1	1	1.92
(1,670)	1:63:A:MET:HB3	1:105:A:PHE:HD1	6	1.92
(1,7082)	1:152:A:LEU:HD23	1:74:A:PHE:HE1	1	1.91
(1,7082)	1:152:A:LEU:HD21	1:74:A:PHE:HE1	6	1.91
(1,7082)	1:152:A:LEU:HD21	1:74:A:PHE:HE1	8	1.91
(1,5719)	1:75:A:ILE:HB	1:74:A:PHE:HD1	1	1.91
(1,5719)	1:75:A:ILE:HB	1:74:A:PHE:HD1	4	1.91
(1,2315)	1:152:A:LEU:HD23	1:74:A:PHE:HE1	1	1.91
(1,2315)	1:152:A:LEU:HD21	1:74:A:PHE:HE1	6	1.91
(1,2315)	1:152:A:LEU:HD21	1:74:A:PHE:HE1	8	1.91
(1,952)	1:75:A:ILE:HB	1:74:A:PHE:HD1	1	1.91
(1,952)	1:75:A:ILE:HB	1:74:A:PHE:HD1	4	1.91
(1,7340)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	1	1.9
(1,5437)	1:63:A:MET:HB3	1:105:A:PHE:HD1	7	1.9
(1,2573)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	1	1.9
(1,670)	1:63:A:MET:HB3	1:105:A:PHE:HD1	7	1.9
(1,7082)	1:152:A:LEU:HD23	1:74:A:PHE:HE1	9	1.89
(1,5611)	1:69:A:GLU:HA	1:112:A:PHE:HE1	7	1.89
(1,2315)	1:152:A:LEU:HD23	1:74:A:PHE:HE1	9	1.89
(1,844)	1:69:A:GLU:HA	1:112:A:PHE:HE1	7	1.89
(1,5719)	1:75:A:ILE:HB	1:74:A:PHE:HD1	2	1.88
(1,5719)	1:75:A:ILE:HB	1:74:A:PHE:HD1	9	1.88
(1,5611)	1:69:A:GLU:HA	1:112:A:PHE:HE1	4	1.88
(1,952)	1:75:A:ILE:HB	1:74:A:PHE:HD1	2	1.88
(1,952)	1:75:A:ILE:HB	1:74:A:PHE:HD1	9	1.88
(1,844)	1:69:A:GLU:HA	1:112:A:PHE:HE1	4	1.88
(1,7082)	1:152:A:LEU:HD22	1:74:A:PHE:HE1	2	1.86
(1,7082)	1:152:A:LEU:HD21	1:74:A:PHE:HE1	10	1.86
(1,5719)	1:75:A:ILE:HB	1:74:A:PHE:HD1	8	1.86
(1,5611)	1:69:A:GLU:HA	1:112:A:PHE:HE1	3	1.86
(1,5437)	1:63:A:MET:HB3	1:105:A:PHE:HD1	8	1.86
(1,2315)	1:152:A:LEU:HD22	1:74:A:PHE:HE1	2	1.86
(1,2315)	1:152:A:LEU:HD21	1:74:A:PHE:HE1	10	1.86
(1,952)	1:75:A:ILE:HB	1:74:A:PHE:HD1	8	1.86
(1,844)	1:69:A:GLU:HA	1:112:A:PHE:HE1	3	1.86
(1,670)	1:63:A:MET:HB3	1:105:A:PHE:HD1	8	1.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7082)	1:152:A:LEU:HD21	1:74:A:PHE:HE1	5	1.85
(1,2315)	1:152:A:LEU:HD21	1:74:A:PHE:HE1	5	1.85
(1,5611)	1:69:A:GLU:HA	1:112:A:PHE:HE1	10	1.84
(1,844)	1:69:A:GLU:HA	1:112:A:PHE:HE1	10	1.84
(1,7379)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	10	1.83
(1,7340)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	10	1.83
(1,7301)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	3	1.83
(1,7300)	1:32:A:PHE:HD1	1:71:A:GLU:HA	1	1.83
(1,5611)	1:69:A:GLU:HA	1:112:A:PHE:HE1	2	1.83
(1,2612)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	10	1.83
(1,2573)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	10	1.83
(1,2534)	1:32:A:PHE:HD1	1:33:A:GLN:HB2	3	1.83
(1,2533)	1:32:A:PHE:HD1	1:71:A:GLU:HA	1	1.83
(1,844)	1:69:A:GLU:HA	1:112:A:PHE:HE1	2	1.83
(1,7082)	1:152:A:LEU:HD21	1:74:A:PHE:HE1	3	1.82
(1,2315)	1:152:A:LEU:HD21	1:74:A:PHE:HE1	3	1.82
(1,7340)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	7	1.81
(1,7340)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	8	1.81
(1,2573)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	7	1.81
(1,2573)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	8	1.81
(1,7379)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	5	1.8
(1,2612)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	5	1.8
(1,7082)	1:152:A:LEU:HD22	1:74:A:PHE:HE1	7	1.79
(1,2315)	1:152:A:LEU:HD22	1:74:A:PHE:HE1	7	1.79
(1,4667)	1:131:A:LEU:HD21	1:88:A:ASP:HB2	9	1.78
(1,4488)	1:131:A:LEU:HD21	1:88:A:ASP:HB2	9	1.78
(1,7312)	1:32:A:PHE:HE1	1:71:A:GLU:H	5	1.77
(1,7300)	1:32:A:PHE:HD1	1:71:A:GLU:HA	4	1.77
(1,5725)	1:75:A:ILE:HD13	1:74:A:PHE:HD1	4	1.77
(1,5725)	1:75:A:ILE:HD11	1:74:A:PHE:HD1	8	1.77
(1,2545)	1:32:A:PHE:HE1	1:71:A:GLU:H	5	1.77
(1,2533)	1:32:A:PHE:HD1	1:71:A:GLU:HA	4	1.77
(1,958)	1:75:A:ILE:HD13	1:74:A:PHE:HD1	4	1.77
(1,958)	1:75:A:ILE:HD11	1:74:A:PHE:HD1	8	1.77
(1,7338)	1:37:A:TYR:H	1:37:A:TYR:HE1	4	1.75
(1,7312)	1:32:A:PHE:HE1	1:71:A:GLU:H	10	1.75
(1,6467)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	3	1.75
(1,5725)	1:75:A:ILE:HD12	1:74:A:PHE:HD1	3	1.75
(1,2571)	1:37:A:TYR:H	1:37:A:TYR:HE1	4	1.75
(1,2545)	1:32:A:PHE:HE1	1:71:A:GLU:H	10	1.75
(1,1700)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	3	1.75
(1,958)	1:75:A:ILE:HD12	1:74:A:PHE:HD1	3	1.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6467)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	6	1.74
(1,6467)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	9	1.74
(1,5725)	1:75:A:ILE:HD11	1:74:A:PHE:HD1	7	1.74
(1,1700)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	6	1.74
(1,1700)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	9	1.74
(1,958)	1:75:A:ILE:HD11	1:74:A:PHE:HD1	7	1.74
(1,7340)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	2	1.73
(1,4667)	1:131:A:LEU:HD22	1:88:A:ASP:HB2	4	1.73
(1,4488)	1:131:A:LEU:HD22	1:88:A:ASP:HB2	4	1.73
(1,2573)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	2	1.73
(1,7340)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	6	1.72
(1,7333)	1:37:A:TYR:HE1	1:74:A:PHE:HZ	4	1.72
(1,5725)	1:75:A:ILE:HD11	1:74:A:PHE:HD1	9	1.72
(1,5724)	1:75:A:ILE:HD13	1:74:A:PHE:HE1	4	1.72
(1,2573)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	6	1.72
(1,2566)	1:37:A:TYR:HE1	1:74:A:PHE:HZ	4	1.72
(1,958)	1:75:A:ILE:HD11	1:74:A:PHE:HD1	9	1.72
(1,957)	1:75:A:ILE:HD13	1:74:A:PHE:HE1	4	1.72
(1,5437)	1:63:A:MET:HB3	1:105:A:PHE:HD1	3	1.71
(1,4667)	1:131:A:LEU:HD23	1:88:A:ASP:HB2	8	1.71
(1,4593)	1:38:A:ILE:HD11	1:82:A:GLN:HG2	7	1.71
(1,4488)	1:131:A:LEU:HD23	1:88:A:ASP:HB2	8	1.71
(1,4414)	1:38:A:ILE:HD11	1:82:A:GLN:HG2	7	1.71
(1,670)	1:63:A:MET:HB3	1:105:A:PHE:HD1	3	1.71
(1,5724)	1:75:A:ILE:HD12	1:74:A:PHE:HE1	3	1.7
(1,5724)	1:75:A:ILE:HD13	1:74:A:PHE:HE1	5	1.7
(1,5724)	1:75:A:ILE:HD11	1:74:A:PHE:HE1	8	1.7
(1,4667)	1:131:A:LEU:HD21	1:88:A:ASP:HB2	1	1.7
(1,4667)	1:131:A:LEU:HD21	1:88:A:ASP:HB2	10	1.7
(1,4488)	1:131:A:LEU:HD21	1:88:A:ASP:HB2	1	1.7
(1,4488)	1:131:A:LEU:HD21	1:88:A:ASP:HB2	10	1.7
(1,957)	1:75:A:ILE:HD12	1:74:A:PHE:HE1	3	1.7
(1,957)	1:75:A:ILE:HD13	1:74:A:PHE:HE1	5	1.7
(1,957)	1:75:A:ILE:HD11	1:74:A:PHE:HE1	8	1.7
(1,7379)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	1	1.69
(1,7312)	1:32:A:PHE:HE1	1:71:A:GLU:H	3	1.69
(1,5724)	1:75:A:ILE:HD11	1:74:A:PHE:HE1	7	1.69
(1,5437)	1:63:A:MET:HB3	1:105:A:PHE:HD1	5	1.69
(1,2612)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	1	1.69
(1,2545)	1:32:A:PHE:HE1	1:71:A:GLU:H	3	1.69
(1,957)	1:75:A:ILE:HD11	1:74:A:PHE:HE1	7	1.69
(1,670)	1:63:A:MET:HB3	1:105:A:PHE:HD1	5	1.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7312)	1:32:A:PHE:HE1	1:71:A:GLU:H	7	1.68
(1,5725)	1:75:A:ILE:HD12	1:74:A:PHE:HD1	6	1.68
(1,5724)	1:75:A:ILE:HD12	1:74:A:PHE:HE1	6	1.68
(1,2545)	1:32:A:PHE:HE1	1:71:A:GLU:H	7	1.68
(1,958)	1:75:A:ILE:HD12	1:74:A:PHE:HD1	6	1.68
(1,957)	1:75:A:ILE:HD12	1:74:A:PHE:HE1	6	1.68
(1,7340)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	3	1.67
(1,7309)	1:71:A:GLU:HA	1:32:A:PHE:HE1	6	1.67
(1,5724)	1:75:A:ILE:HD12	1:74:A:PHE:HE1	10	1.67
(1,2573)	1:37:A:TYR:HE1	1:74:A:PHE:HE1	3	1.67
(1,2542)	1:71:A:GLU:HA	1:32:A:PHE:HE1	6	1.67
(1,957)	1:75:A:ILE:HD12	1:74:A:PHE:HE1	10	1.67
(1,7379)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	6	1.66
(1,5725)	1:75:A:ILE:HD13	1:74:A:PHE:HD1	5	1.66
(1,2612)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	6	1.66
(1,958)	1:75:A:ILE:HD13	1:74:A:PHE:HD1	5	1.66
(1,5437)	1:63:A:MET:HB3	1:105:A:PHE:HD1	9	1.65
(1,4667)	1:131:A:LEU:HD23	1:88:A:ASP:HB2	6	1.65
(1,4641)	1:76:A:LEU:HD11	1:88:A:ASP:HB3	4	1.65
(1,4488)	1:131:A:LEU:HD23	1:88:A:ASP:HB2	6	1.65
(1,4462)	1:76:A:LEU:HD11	1:88:A:ASP:HB3	4	1.65
(1,670)	1:63:A:MET:HB3	1:105:A:PHE:HD1	9	1.65
(1,7379)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	2	1.64
(1,6467)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	1	1.64
(1,5725)	1:75:A:ILE:HD12	1:74:A:PHE:HD1	10	1.64
(1,4593)	1:38:A:ILE:HD12	1:82:A:GLN:HG2	5	1.64
(1,4414)	1:38:A:ILE:HD12	1:82:A:GLN:HG2	5	1.64
(1,2612)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	2	1.64
(1,1700)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	1	1.64
(1,958)	1:75:A:ILE:HD12	1:74:A:PHE:HD1	10	1.64
(1,7312)	1:32:A:PHE:HE1	1:71:A:GLU:H	4	1.63
(1,7312)	1:32:A:PHE:HE1	1:71:A:GLU:H	6	1.63
(1,7065)	1:152:A:LEU:HD11	1:74:A:PHE:HE1	4	1.63
(1,4641)	1:76:A:LEU:HD12	1:88:A:ASP:HB3	6	1.63
(1,4593)	1:38:A:ILE:HD12	1:82:A:GLN:HG2	3	1.63
(1,4462)	1:76:A:LEU:HD12	1:88:A:ASP:HB3	6	1.63
(1,4414)	1:38:A:ILE:HD12	1:82:A:GLN:HG2	3	1.63
(1,2545)	1:32:A:PHE:HE1	1:71:A:GLU:H	4	1.63
(1,2545)	1:32:A:PHE:HE1	1:71:A:GLU:H	6	1.63
(1,2298)	1:152:A:LEU:HD11	1:74:A:PHE:HE1	4	1.63
(1,7379)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	4	1.62
(1,5725)	1:75:A:ILE:HD12	1:74:A:PHE:HD1	1	1.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4641)	1:76:A:LEU:HD12	1:88:A:ASP:HB3	10	1.62
(1,4462)	1:76:A:LEU:HD12	1:88:A:ASP:HB3	10	1.62
(1,2612)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	4	1.62
(1,958)	1:75:A:ILE:HD12	1:74:A:PHE:HD1	1	1.62
(1,7309)	1:71:A:GLU:HA	1:32:A:PHE:HE1	3	1.61
(1,6467)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	7	1.61
(1,5724)	1:75:A:ILE:HD11	1:74:A:PHE:HE1	9	1.61
(1,2542)	1:71:A:GLU:HA	1:32:A:PHE:HE1	3	1.61
(1,1700)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	7	1.61
(1,957)	1:75:A:ILE:HD11	1:74:A:PHE:HE1	9	1.61
(1,7309)	1:71:A:GLU:HA	1:32:A:PHE:HE1	10	1.6
(1,5725)	1:75:A:ILE:HD11	1:74:A:PHE:HD1	2	1.6
(1,5724)	1:75:A:ILE:HD12	1:74:A:PHE:HE1	1	1.6
(1,5724)	1:75:A:ILE:HD11	1:74:A:PHE:HE1	2	1.6
(1,4593)	1:38:A:ILE:HD12	1:82:A:GLN:HG2	10	1.6
(1,4414)	1:38:A:ILE:HD12	1:82:A:GLN:HG2	10	1.6
(1,2542)	1:71:A:GLU:HA	1:32:A:PHE:HE1	10	1.6
(1,958)	1:75:A:ILE:HD11	1:74:A:PHE:HD1	2	1.6
(1,957)	1:75:A:ILE:HD12	1:74:A:PHE:HE1	1	1.6
(1,957)	1:75:A:ILE:HD11	1:74:A:PHE:HE1	2	1.6
(1,7312)	1:32:A:PHE:HE1	1:71:A:GLU:H	2	1.59
(1,2545)	1:32:A:PHE:HE1	1:71:A:GLU:H	2	1.59
(1,4641)	1:76:A:LEU:HD12	1:88:A:ASP:HB3	1	1.58
(1,4641)	1:76:A:LEU:HD13	1:88:A:ASP:HB3	9	1.58
(1,4462)	1:76:A:LEU:HD12	1:88:A:ASP:HB3	1	1.58
(1,4462)	1:76:A:LEU:HD13	1:88:A:ASP:HB3	9	1.58
(1,7379)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	3	1.57
(1,5437)	1:63:A:MET:HB3	1:105:A:PHE:HD1	2	1.57
(1,4593)	1:38:A:ILE:HD11	1:82:A:GLN:HG2	9	1.57
(1,4414)	1:38:A:ILE:HD11	1:82:A:GLN:HG2	9	1.57
(1,2612)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	3	1.57
(1,670)	1:63:A:MET:HB3	1:105:A:PHE:HD1	2	1.57
(1,5437)	1:63:A:MET:HB3	1:105:A:PHE:HD1	4	1.56
(1,670)	1:63:A:MET:HB3	1:105:A:PHE:HD1	4	1.56
(1,7309)	1:71:A:GLU:HA	1:32:A:PHE:HE1	7	1.55
(1,7065)	1:152:A:LEU:HD12	1:74:A:PHE:HE1	9	1.55
(1,2542)	1:71:A:GLU:HA	1:32:A:PHE:HE1	7	1.55
(1,2298)	1:152:A:LEU:HD12	1:74:A:PHE:HE1	9	1.55
(1,7321)	1:35:A:SER:HB3	1:37:A:TYR:HD1	4	1.54
(1,7309)	1:71:A:GLU:HA	1:32:A:PHE:HE1	5	1.54
(1,4641)	1:76:A:LEU:HD13	1:88:A:ASP:HB3	8	1.54
(1,4593)	1:38:A:ILE:HD11	1:82:A:GLN:HG2	4	1.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4462)	1:76:A:LEU:HD13	1:88:A:ASP:HB3	8	1.54
(1,4414)	1:38:A:ILE:HD11	1:82:A:GLN:HG2	4	1.54
(1,2554)	1:35:A:SER:HB3	1:37:A:TYR:HD1	4	1.54
(1,2542)	1:71:A:GLU:HA	1:32:A:PHE:HE1	5	1.54
(1,7065)	1:152:A:LEU:HD13	1:74:A:PHE:HE1	1	1.53
(1,4701)	1:102:A:PHE:HD1	1:49:A:ILE:HD12	5	1.53
(1,4522)	1:102:A:PHE:HD1	1:49:A:ILE:HD12	5	1.53
(1,2298)	1:152:A:LEU:HD13	1:74:A:PHE:HE1	1	1.53
(1,7065)	1:152:A:LEU:HD13	1:74:A:PHE:HE1	8	1.52
(1,2298)	1:152:A:LEU:HD13	1:74:A:PHE:HE1	8	1.52
(1,7379)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	7	1.51
(1,7379)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	9	1.51
(1,4593)	1:38:A:ILE:HD12	1:82:A:GLN:HG2	8	1.51
(1,4589)	1:28:A:THR:HG21	1:30:A:ILE:HD13	10	1.51
(1,4414)	1:38:A:ILE:HD12	1:82:A:GLN:HG2	8	1.51
(1,4410)	1:28:A:THR:HG21	1:30:A:ILE:HD13	10	1.51
(1,2612)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	7	1.51
(1,2612)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	9	1.51
(1,7065)	1:152:A:LEU:HD12	1:74:A:PHE:HE1	6	1.5
(1,6467)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	8	1.5
(1,2298)	1:152:A:LEU:HD12	1:74:A:PHE:HE1	6	1.5
(1,1700)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	8	1.5
(1,7330)	1:35:A:SER:HB3	1:37:A:TYR:HE1	4	1.49
(1,6467)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	10	1.49
(1,4701)	1:102:A:PHE:HD1	1:49:A:ILE:HD12	4	1.49
(1,4667)	1:131:A:LEU:HD22	1:88:A:ASP:HB3	7	1.49
(1,4522)	1:102:A:PHE:HD1	1:49:A:ILE:HD12	4	1.49
(1,4488)	1:131:A:LEU:HD22	1:88:A:ASP:HB3	7	1.49
(1,2563)	1:35:A:SER:HB3	1:37:A:TYR:HE1	4	1.49
(1,1700)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	10	1.49
(1,7327)	1:37:A:TYR:H	1:37:A:TYR:HD1	4	1.48
(1,7312)	1:32:A:PHE:HE1	1:71:A:GLU:H	8	1.48
(1,4593)	1:38:A:ILE:HD13	1:82:A:GLN:HG2	1	1.48
(1,4414)	1:38:A:ILE:HD13	1:82:A:GLN:HG2	1	1.48
(1,2560)	1:37:A:TYR:H	1:37:A:TYR:HD1	4	1.48
(1,2545)	1:32:A:PHE:HE1	1:71:A:GLU:H	8	1.48
(1,4701)	1:102:A:PHE:HD1	1:49:A:ILE:HD11	2	1.47
(1,4522)	1:102:A:PHE:HD1	1:49:A:ILE:HD11	2	1.47
(1,4701)	1:102:A:PHE:HD1	1:49:A:ILE:HD12	3	1.46
(1,4701)	1:102:A:PHE:HD1	1:49:A:ILE:HD11	9	1.46
(1,4522)	1:102:A:PHE:HD1	1:49:A:ILE:HD12	3	1.46
(1,4522)	1:102:A:PHE:HD1	1:49:A:ILE:HD11	9	1.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7065)	1:152:A:LEU:HD13	1:74:A:PHE:HE1	2	1.45
(1,4701)	1:102:A:PHE:HD1	1:49:A:ILE:HD13	8	1.45
(1,4522)	1:102:A:PHE:HD1	1:49:A:ILE:HD13	8	1.45
(1,2298)	1:152:A:LEU:HD13	1:74:A:PHE:HE1	2	1.45
(1,7309)	1:71:A:GLU:HA	1:32:A:PHE:HE1	2	1.44
(1,7065)	1:152:A:LEU:HD12	1:74:A:PHE:HE1	5	1.44
(1,6467)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	2	1.44
(1,6467)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	4	1.44
(1,5406)	1:38:A:ILE:HD11	1:61:A:ALA:HB1	2	1.44
(1,4905)	1:32:A:PHE:HB2	1:37:A:TYR:HD1	4	1.44
(1,4701)	1:102:A:PHE:HD1	1:49:A:ILE:HD11	10	1.44
(1,4522)	1:102:A:PHE:HD1	1:49:A:ILE:HD11	10	1.44
(1,2542)	1:71:A:GLU:HA	1:32:A:PHE:HE1	2	1.44
(1,2298)	1:152:A:LEU:HD12	1:74:A:PHE:HE1	5	1.44
(1,1700)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	2	1.44
(1,1700)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	4	1.44
(1,639)	1:38:A:ILE:HD11	1:61:A:ALA:HB1	2	1.44
(1,138)	1:32:A:PHE:HB2	1:37:A:TYR:HD1	4	1.44
(1,7312)	1:32:A:PHE:HE1	1:71:A:GLU:H	9	1.43
(1,7065)	1:152:A:LEU:HD13	1:74:A:PHE:HE1	10	1.43
(1,5406)	1:38:A:ILE:HD11	1:61:A:ALA:HB3	8	1.43
(1,2545)	1:32:A:PHE:HE1	1:71:A:GLU:H	9	1.43
(1,2298)	1:152:A:LEU:HD13	1:74:A:PHE:HE1	10	1.43
(1,639)	1:38:A:ILE:HD11	1:61:A:ALA:HB3	8	1.43
(1,4701)	1:102:A:PHE:HD1	1:49:A:ILE:HD11	1	1.42
(1,4634)	1:73:A:ALA:HB2	1:112:A:PHE:HE2	8	1.42
(1,4593)	1:38:A:ILE:HD13	1:82:A:GLN:HG2	6	1.42
(1,4522)	1:102:A:PHE:HD1	1:49:A:ILE:HD11	1	1.42
(1,4455)	1:73:A:ALA:HB2	1:112:A:PHE:HE2	8	1.42
(1,4414)	1:38:A:ILE:HD13	1:82:A:GLN:HG2	6	1.42
(1,7065)	1:152:A:LEU:HD11	1:74:A:PHE:HE1	3	1.41
(1,5406)	1:38:A:ILE:HD13	1:61:A:ALA:HB2	9	1.41
(1,4701)	1:102:A:PHE:HD1	1:49:A:ILE:HD12	6	1.41
(1,4701)	1:102:A:PHE:HD1	1:49:A:ILE:HD13	7	1.41
(1,4634)	1:73:A:ALA:HB3	1:112:A:PHE:HE2	2	1.41
(1,4589)	1:28:A:THR:HG23	1:30:A:ILE:HD13	4	1.41
(1,4522)	1:102:A:PHE:HD1	1:49:A:ILE:HD12	6	1.41
(1,4522)	1:102:A:PHE:HD1	1:49:A:ILE:HD13	7	1.41
(1,4455)	1:73:A:ALA:HB3	1:112:A:PHE:HE2	2	1.41
(1,4410)	1:28:A:THR:HG23	1:30:A:ILE:HD13	4	1.41
(1,2298)	1:152:A:LEU:HD11	1:74:A:PHE:HE1	3	1.41
(1,639)	1:38:A:ILE:HD13	1:61:A:ALA:HB2	9	1.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6468)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	6	1.4
(1,5406)	1:38:A:ILE:HD11	1:61:A:ALA:HB1	10	1.4
(1,4667)	1:131:A:LEU:HD22	1:88:A:ASP:HB3	3	1.4
(1,4667)	1:131:A:LEU:HD23	1:88:A:ASP:HB3	5	1.4
(1,4488)	1:131:A:LEU:HD22	1:88:A:ASP:HB3	3	1.4
(1,4488)	1:131:A:LEU:HD23	1:88:A:ASP:HB3	5	1.4
(1,1701)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	6	1.4
(1,639)	1:38:A:ILE:HD11	1:61:A:ALA:HB1	10	1.4
(1,7379)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	8	1.39
(1,6467)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	5	1.39
(1,5406)	1:38:A:ILE:HD11	1:61:A:ALA:HB3	5	1.39
(1,4634)	1:73:A:ALA:HB2	1:112:A:PHE:HE2	3	1.39
(1,4634)	1:73:A:ALA:HB3	1:112:A:PHE:HE2	4	1.39
(1,4634)	1:73:A:ALA:HB2	1:112:A:PHE:HE2	5	1.39
(1,4634)	1:73:A:ALA:HB2	1:112:A:PHE:HE2	7	1.39
(1,4634)	1:73:A:ALA:HB2	1:112:A:PHE:HE2	10	1.39
(1,4455)	1:73:A:ALA:HB2	1:112:A:PHE:HE2	3	1.39
(1,4455)	1:73:A:ALA:HB3	1:112:A:PHE:HE2	4	1.39
(1,4455)	1:73:A:ALA:HB2	1:112:A:PHE:HE2	5	1.39
(1,4455)	1:73:A:ALA:HB2	1:112:A:PHE:HE2	7	1.39
(1,4455)	1:73:A:ALA:HB2	1:112:A:PHE:HE2	10	1.39
(1,2612)	1:75:A:ILE:HG12	1:74:A:PHE:HD1	8	1.39
(1,1700)	1:114:A:LYS:HD2	1:112:A:PHE:HE1	5	1.39
(1,639)	1:38:A:ILE:HD11	1:61:A:ALA:HB3	5	1.39
(1,7065)	1:152:A:LEU:HD11	1:74:A:PHE:HE1	7	1.38
(1,5406)	1:38:A:ILE:HD13	1:61:A:ALA:HB3	4	1.38
(1,4641)	1:76:A:LEU:HD11	1:88:A:ASP:HB3	2	1.38
(1,4593)	1:38:A:ILE:HD12	1:82:A:GLN:HG2	2	1.38
(1,4462)	1:76:A:LEU:HD11	1:88:A:ASP:HB3	2	1.38
(1,4414)	1:38:A:ILE:HD12	1:82:A:GLN:HG2	2	1.38
(1,2298)	1:152:A:LEU:HD11	1:74:A:PHE:HE1	7	1.38
(1,639)	1:38:A:ILE:HD13	1:61:A:ALA:HB3	4	1.38
(1,5406)	1:38:A:ILE:HD11	1:61:A:ALA:HB3	3	1.37
(1,4589)	1:28:A:THR:HG23	1:30:A:ILE:HD13	3	1.37
(1,4410)	1:28:A:THR:HG23	1:30:A:ILE:HD13	3	1.37
(1,639)	1:38:A:ILE:HD11	1:61:A:ALA:HB3	3	1.37
(1,7503)	1:105:A:PHE:HD1	1:104:A:TRP:HA	4	1.36
(1,7503)	1:105:A:PHE:HD1	1:104:A:TRP:HA	9	1.36
(1,5406)	1:38:A:ILE:HD13	1:61:A:ALA:HB2	7	1.36
(1,4589)	1:28:A:THR:HG21	1:30:A:ILE:HD12	6	1.36
(1,4589)	1:28:A:THR:HG23	1:30:A:ILE:HD11	8	1.36
(1,4410)	1:28:A:THR:HG21	1:30:A:ILE:HD12	6	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4410)	1:28:A:THR:HG23	1:30:A:ILE:HD11	8	1.36
(1,2736)	1:105:A:PHE:HD1	1:104:A:TRP:HA	4	1.36
(1,2736)	1:105:A:PHE:HD1	1:104:A:TRP:HA	9	1.36
(1,639)	1:38:A:ILE:HD13	1:61:A:ALA:HB2	7	1.36
(1,7503)	1:105:A:PHE:HD1	1:104:A:TRP:HA	3	1.35
(1,6468)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	9	1.35
(1,4667)	1:131:A:LEU:HD22	1:88:A:ASP:HB3	2	1.35
(1,4641)	1:76:A:LEU:HD11	1:88:A:ASP:HB3	7	1.35
(1,4589)	1:28:A:THR:HG21	1:30:A:ILE:HD12	5	1.35
(1,4589)	1:28:A:THR:HG21	1:30:A:ILE:HD13	9	1.35
(1,4488)	1:131:A:LEU:HD22	1:88:A:ASP:HB3	2	1.35
(1,4462)	1:76:A:LEU:HD11	1:88:A:ASP:HB3	7	1.35
(1,4410)	1:28:A:THR:HG21	1:30:A:ILE:HD12	5	1.35
(1,4410)	1:28:A:THR:HG21	1:30:A:ILE:HD13	9	1.35
(1,2736)	1:105:A:PHE:HD1	1:104:A:TRP:HA	3	1.35
(1,1701)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	9	1.35
(1,7324)	1:37:A:TYR:HD1	1:35:A:SER:HB2	4	1.34
(1,5406)	1:38:A:ILE:HD12	1:61:A:ALA:HB1	6	1.34
(1,2557)	1:37:A:TYR:HD1	1:35:A:SER:HB2	4	1.34
(1,639)	1:38:A:ILE:HD12	1:61:A:ALA:HB1	6	1.34
(1,7503)	1:105:A:PHE:HD1	1:104:A:TRP:HA	8	1.33
(1,4688)	1:158:A:PRO:HA	1:157:A:ILE:HG23	1	1.33
(1,4688)	1:158:A:PRO:HA	1:157:A:ILE:HD13	10	1.33
(1,4641)	1:76:A:LEU:HD13	1:88:A:ASP:HB3	3	1.33
(1,4589)	1:28:A:THR:HG22	1:30:A:ILE:HD12	2	1.33
(1,4509)	1:158:A:PRO:HA	1:157:A:ILE:HG23	1	1.33
(1,4509)	1:158:A:PRO:HA	1:157:A:ILE:HD13	10	1.33
(1,4462)	1:76:A:LEU:HD13	1:88:A:ASP:HB3	3	1.33
(1,4410)	1:28:A:THR:HG22	1:30:A:ILE:HD12	2	1.33
(1,2736)	1:105:A:PHE:HD1	1:104:A:TRP:HA	8	1.33
(1,7503)	1:105:A:PHE:HD1	1:104:A:TRP:HA	5	1.32
(1,2736)	1:105:A:PHE:HD1	1:104:A:TRP:HA	5	1.32
(1,7329)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	7	1.31
(1,4688)	1:158:A:PRO:HA	1:157:A:ILE:HG22	3	1.31
(1,4509)	1:158:A:PRO:HA	1:157:A:ILE:HG22	3	1.31
(1,2562)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	7	1.31
(1,7503)	1:105:A:PHE:HD1	1:104:A:TRP:HA	10	1.3
(1,7326)	1:37:A:TYR:HD1	1:30:A:ILE:HB	4	1.3
(1,4589)	1:28:A:THR:HG22	1:30:A:ILE:HD13	1	1.3
(1,4410)	1:28:A:THR:HG22	1:30:A:ILE:HD13	1	1.3
(1,2736)	1:105:A:PHE:HD1	1:104:A:TRP:HA	10	1.3
(1,2559)	1:37:A:TYR:HD1	1:30:A:ILE:HB	4	1.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7503)	1:105:A:PHE:HD1	1:104:A:TRP:HA	7	1.29
(1,2736)	1:105:A:PHE:HD1	1:104:A:TRP:HA	7	1.29
(1,7503)	1:105:A:PHE:HD1	1:104:A:TRP:HA	2	1.28
(1,4589)	1:28:A:THR:HG23	1:30:A:ILE:HD12	7	1.28
(1,4410)	1:28:A:THR:HG23	1:30:A:ILE:HD12	7	1.28
(1,2736)	1:105:A:PHE:HD1	1:104:A:TRP:HA	2	1.28
(1,7503)	1:105:A:PHE:HD1	1:104:A:TRP:HA	1	1.27
(1,7329)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	1	1.27
(1,7309)	1:71:A:GLU:HA	1:32:A:PHE:HE1	9	1.27
(1,4641)	1:76:A:LEU:HD13	1:88:A:ASP:HB3	5	1.27
(1,4462)	1:76:A:LEU:HD13	1:88:A:ASP:HB3	5	1.27
(1,2736)	1:105:A:PHE:HD1	1:104:A:TRP:HA	1	1.27
(1,2562)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	1	1.27
(1,2542)	1:71:A:GLU:HA	1:32:A:PHE:HE1	9	1.27
(1,7329)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	5	1.26
(1,6646)	1:129:A:ALA:HB3	1:91:A:LEU:HD13	1	1.26
(1,4634)	1:73:A:ALA:HB1	1:112:A:PHE:HE2	9	1.26
(1,4455)	1:73:A:ALA:HB1	1:112:A:PHE:HE2	9	1.26
(1,2562)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	5	1.26
(1,1879)	1:129:A:ALA:HB3	1:91:A:LEU:HD13	1	1.26
(1,7503)	1:105:A:PHE:HD1	1:104:A:TRP:HA	6	1.25
(1,2736)	1:105:A:PHE:HD1	1:104:A:TRP:HA	6	1.25
(1,8153)	1:65:A:SER:H	1:91:A:LEU:HD21	5	1.24
(1,7309)	1:71:A:GLU:HA	1:32:A:PHE:HE1	4	1.24
(1,6646)	1:129:A:ALA:HB2	1:91:A:LEU:HD12	4	1.24
(1,4634)	1:73:A:ALA:HB2	1:112:A:PHE:HE2	1	1.24
(1,4455)	1:73:A:ALA:HB2	1:112:A:PHE:HE2	1	1.24
(1,3386)	1:65:A:SER:H	1:91:A:LEU:HD21	5	1.24
(1,2542)	1:71:A:GLU:HA	1:32:A:PHE:HE1	4	1.24
(1,1879)	1:129:A:ALA:HB2	1:91:A:LEU:HD12	4	1.24
(1,8153)	1:65:A:SER:H	1:91:A:LEU:HD23	8	1.23
(1,5406)	1:38:A:ILE:HD12	1:61:A:ALA:HB3	1	1.23
(1,4833)	1:28:A:THR:HG23	1:38:A:ILE:HG21	3	1.23
(1,3386)	1:65:A:SER:H	1:91:A:LEU:HD23	8	1.23
(1,639)	1:38:A:ILE:HD12	1:61:A:ALA:HB3	1	1.23
(1,66)	1:28:A:THR:HG23	1:38:A:ILE:HG21	3	1.23
(1,8153)	1:65:A:SER:H	1:91:A:LEU:HD23	4	1.22
(1,7329)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	9	1.22
(1,7309)	1:71:A:GLU:HA	1:32:A:PHE:HE1	8	1.22
(1,7190)	1:157:A:ILE:HD11	1:158:A:PRO:HD3	1	1.22
(1,6468)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	10	1.22
(1,5070)	1:38:A:ILE:HD11	1:40:A:LEU:HD23	8	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4833)	1:28:A:THR:HG22	1:38:A:ILE:HG21	2	1.22
(1,4833)	1:28:A:THR:HG21	1:38:A:ILE:HG22	6	1.22
(1,4833)	1:28:A:THR:HG23	1:38:A:ILE:HG22	8	1.22
(1,3386)	1:65:A:SER:H	1:91:A:LEU:HD23	4	1.22
(1,2562)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	9	1.22
(1,2542)	1:71:A:GLU:HA	1:32:A:PHE:HE1	8	1.22
(1,2423)	1:157:A:ILE:HD11	1:158:A:PRO:HD3	1	1.22
(1,1701)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	10	1.22
(1,303)	1:38:A:ILE:HD11	1:40:A:LEU:HD23	8	1.22
(1,66)	1:28:A:THR:HG22	1:38:A:ILE:HG21	2	1.22
(1,66)	1:28:A:THR:HG21	1:38:A:ILE:HG22	6	1.22
(1,66)	1:28:A:THR:HG23	1:38:A:ILE:HG22	8	1.22
(1,8153)	1:65:A:SER:H	1:91:A:LEU:HD22	1	1.21
(1,6646)	1:129:A:ALA:HB3	1:91:A:LEU:HD13	5	1.21
(1,6468)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	4	1.21
(1,3386)	1:65:A:SER:H	1:91:A:LEU:HD22	1	1.21
(1,1879)	1:129:A:ALA:HB3	1:91:A:LEU:HD13	5	1.21
(1,1701)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	4	1.21
(1,7505)	1:63:A:MET:HB2	1:105:A:PHE:HD1	10	1.2
(1,4833)	1:28:A:THR:HG21	1:38:A:ILE:HG23	5	1.2
(1,2738)	1:63:A:MET:HB2	1:105:A:PHE:HD1	10	1.2
(1,66)	1:28:A:THR:HG21	1:38:A:ILE:HG23	5	1.2
(1,7312)	1:32:A:PHE:HE1	1:71:A:GLU:H	1	1.19
(1,7190)	1:157:A:ILE:HD11	1:158:A:PRO:HD3	3	1.19
(1,6468)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	3	1.19
(1,5070)	1:38:A:ILE:HD13	1:40:A:LEU:HD21	7	1.19
(1,4634)	1:73:A:ALA:HB3	1:112:A:PHE:HE2	6	1.19
(1,4455)	1:73:A:ALA:HB3	1:112:A:PHE:HE2	6	1.19
(1,2545)	1:32:A:PHE:HE1	1:71:A:GLU:H	1	1.19
(1,2423)	1:157:A:ILE:HD11	1:158:A:PRO:HD3	3	1.19
(1,1701)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	3	1.19
(1,303)	1:38:A:ILE:HD13	1:40:A:LEU:HD21	7	1.19
(1,8279)	1:73:A:ALA:H	1:74:A:PHE:HD1	9	1.18
(1,4665)	1:131:A:LEU:HD11	1:138:A:TRP:HB2	1	1.18
(1,4664)	1:125:A:VAL:HG22	1:142:A:ASN:HA	2	1.18
(1,4664)	1:125:A:VAL:HG21	1:142:A:ASN:HA	8	1.18
(1,4486)	1:131:A:LEU:HD11	1:138:A:TRP:HB2	1	1.18
(1,4485)	1:125:A:VAL:HG22	1:142:A:ASN:HA	2	1.18
(1,4485)	1:125:A:VAL:HG21	1:142:A:ASN:HA	8	1.18
(1,3512)	1:73:A:ALA:H	1:74:A:PHE:HD1	9	1.18
(1,7505)	1:63:A:MET:HB2	1:105:A:PHE:HD1	6	1.17
(1,6468)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	7	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4833)	1:28:A:THR:HG23	1:38:A:ILE:HG21	4	1.17
(1,4688)	1:158:A:PRO:HA	1:157:A:ILE:HD11	7	1.17
(1,4509)	1:158:A:PRO:HA	1:157:A:ILE:HD11	7	1.17
(1,2738)	1:63:A:MET:HB2	1:105:A:PHE:HD1	6	1.17
(1,1701)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	7	1.17
(1,66)	1:28:A:THR:HG23	1:38:A:ILE:HG21	4	1.17
(1,7329)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	6	1.16
(1,5070)	1:38:A:ILE:HD13	1:40:A:LEU:HD21	4	1.16
(1,4833)	1:28:A:THR:HG22	1:38:A:ILE:HG23	1	1.16
(1,4664)	1:125:A:VAL:HG22	1:142:A:ASN:HA	1	1.16
(1,4485)	1:125:A:VAL:HG22	1:142:A:ASN:HA	1	1.16
(1,2562)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	6	1.16
(1,303)	1:38:A:ILE:HD13	1:40:A:LEU:HD21	4	1.16
(1,66)	1:28:A:THR:HG22	1:38:A:ILE:HG23	1	1.16
(1,8279)	1:73:A:ALA:H	1:74:A:PHE:HD1	3	1.15
(1,7505)	1:63:A:MET:HB2	1:105:A:PHE:HD1	1	1.15
(1,7329)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	10	1.15
(1,4833)	1:28:A:THR:HG22	1:38:A:ILE:HG23	9	1.15
(1,4741)	1:77:A:ASP:H	1:131:A:LEU:HD21	2	1.15
(1,4741)	1:77:A:ASP:H	1:131:A:LEU:HD21	4	1.15
(1,4741)	1:77:A:ASP:H	1:131:A:LEU:HD23	10	1.15
(1,4664)	1:125:A:VAL:HG21	1:142:A:ASN:HA	9	1.15
(1,4562)	1:77:A:ASP:H	1:131:A:LEU:HD21	2	1.15
(1,4562)	1:77:A:ASP:H	1:131:A:LEU:HD21	4	1.15
(1,4562)	1:77:A:ASP:H	1:131:A:LEU:HD23	10	1.15
(1,4485)	1:125:A:VAL:HG21	1:142:A:ASN:HA	9	1.15
(1,3512)	1:73:A:ALA:H	1:74:A:PHE:HD1	3	1.15
(1,2738)	1:63:A:MET:HB2	1:105:A:PHE:HD1	1	1.15
(1,2562)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	10	1.15
(1,66)	1:28:A:THR:HG22	1:38:A:ILE:HG23	9	1.15
(1,7408)	1:40:A:LEU:HD13	1:83:A:TRP:HZ2	4	1.14
(1,4688)	1:158:A:PRO:HA	1:157:A:ILE:HD13	8	1.14
(1,4664)	1:125:A:VAL:HG21	1:142:A:ASN:HA	6	1.14
(1,4664)	1:125:A:VAL:HG23	1:142:A:ASN:HA	7	1.14
(1,4509)	1:158:A:PRO:HA	1:157:A:ILE:HD13	8	1.14
(1,4485)	1:125:A:VAL:HG21	1:142:A:ASN:HA	6	1.14
(1,4485)	1:125:A:VAL:HG23	1:142:A:ASN:HA	7	1.14
(1,2641)	1:40:A:LEU:HD13	1:83:A:TRP:HZ2	4	1.14
(1,7505)	1:63:A:MET:HB2	1:105:A:PHE:HD1	7	1.13
(1,7325)	1:37:A:TYR:HD1	1:30:A:ILE:H	4	1.13
(1,6646)	1:129:A:ALA:HB1	1:91:A:LEU:HD13	10	1.13
(1,5741)	1:75:A:ILE:HG21	1:71:A:GLU:HG3	1	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4741)	1:77:A:ASP:H	1:131:A:LEU:HD23	1	1.13
(1,4664)	1:125:A:VAL:HG22	1:142:A:ASN:HA	10	1.13
(1,4562)	1:77:A:ASP:H	1:131:A:LEU:HD23	1	1.13
(1,4485)	1:125:A:VAL:HG22	1:142:A:ASN:HA	10	1.13
(1,2738)	1:63:A:MET:HB2	1:105:A:PHE:HD1	7	1.13
(1,2558)	1:37:A:TYR:HD1	1:30:A:ILE:H	4	1.13
(1,1879)	1:129:A:ALA:HB1	1:91:A:LEU:HD13	10	1.13
(1,974)	1:75:A:ILE:HG21	1:71:A:GLU:HG3	1	1.13
(1,7408)	1:40:A:LEU:HD13	1:83:A:TRP:HZ2	8	1.12
(1,7190)	1:157:A:ILE:HD11	1:158:A:PRO:HD3	7	1.12
(1,7190)	1:157:A:ILE:HD13	1:158:A:PRO:HD3	10	1.12
(1,6646)	1:129:A:ALA:HB1	1:91:A:LEU:HD12	3	1.12
(1,6646)	1:129:A:ALA:HB1	1:91:A:LEU:HD12	9	1.12
(1,5070)	1:38:A:ILE:HD11	1:40:A:LEU:HD22	5	1.12
(1,4741)	1:77:A:ASP:H	1:131:A:LEU:HD22	6	1.12
(1,4741)	1:77:A:ASP:H	1:131:A:LEU:HD22	8	1.12
(1,4665)	1:131:A:LEU:HD13	1:88:A:ASP:HB3	2	1.12
(1,4665)	1:131:A:LEU:HD12	1:138:A:TRP:HB2	8	1.12
(1,4562)	1:77:A:ASP:H	1:131:A:LEU:HD22	6	1.12
(1,4562)	1:77:A:ASP:H	1:131:A:LEU:HD22	8	1.12
(1,4486)	1:131:A:LEU:HD13	1:88:A:ASP:HB3	2	1.12
(1,4486)	1:131:A:LEU:HD12	1:138:A:TRP:HB2	8	1.12
(1,2641)	1:40:A:LEU:HD13	1:83:A:TRP:HZ2	8	1.12
(1,2423)	1:157:A:ILE:HD11	1:158:A:PRO:HD3	7	1.12
(1,2423)	1:157:A:ILE:HD13	1:158:A:PRO:HD3	10	1.12
(1,1879)	1:129:A:ALA:HB1	1:91:A:LEU:HD12	3	1.12
(1,1879)	1:129:A:ALA:HB1	1:91:A:LEU:HD12	9	1.12
(1,303)	1:38:A:ILE:HD11	1:40:A:LEU:HD22	5	1.12
(1,8153)	1:65:A:SER:H	1:91:A:LEU:HD22	9	1.11
(1,7408)	1:40:A:LEU:HD12	1:83:A:TRP:HZ2	1	1.11
(1,7329)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	8	1.11
(1,6468)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	1	1.11
(1,5741)	1:75:A:ILE:HG21	1:71:A:GLU:HG3	5	1.11
(1,5741)	1:75:A:ILE:HG22	1:71:A:GLU:HG3	6	1.11
(1,5741)	1:75:A:ILE:HG22	1:71:A:GLU:HG3	10	1.11
(1,5070)	1:38:A:ILE:HD11	1:40:A:LEU:HD21	3	1.11
(1,4833)	1:28:A:THR:HG23	1:38:A:ILE:HG23	7	1.11
(1,4665)	1:131:A:LEU:HD11	1:138:A:TRP:HB2	4	1.11
(1,4665)	1:131:A:LEU:HD13	1:138:A:TRP:HB2	10	1.11
(1,4664)	1:125:A:VAL:HG21	1:142:A:ASN:HA	4	1.11
(1,4486)	1:131:A:LEU:HD11	1:138:A:TRP:HB2	4	1.11
(1,4486)	1:131:A:LEU:HD13	1:138:A:TRP:HB2	10	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4485)	1:125:A:VAL:HG21	1:142:A:ASN:HA	4	1.11
(1,3386)	1:65:A:SER:H	1:91:A:LEU:HD22	9	1.11
(1,2641)	1:40:A:LEU:HD12	1:83:A:TRP:HZ2	1	1.11
(1,2562)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	8	1.11
(1,1701)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	1	1.11
(1,974)	1:75:A:ILE:HG21	1:71:A:GLU:HG3	5	1.11
(1,974)	1:75:A:ILE:HG22	1:71:A:GLU:HG3	6	1.11
(1,974)	1:75:A:ILE:HG22	1:71:A:GLU:HG3	10	1.11
(1,303)	1:38:A:ILE:HD11	1:40:A:LEU:HD21	3	1.11
(1,66)	1:28:A:THR:HG23	1:38:A:ILE:HG23	7	1.11
(1,8153)	1:65:A:SER:H	1:91:A:LEU:HD22	3	1.1
(1,6662)	1:90:A:LEU:HD13	1:130:A:PHE:HA	3	1.1
(1,6662)	1:90:A:LEU:HD13	1:130:A:PHE:HA	9	1.1
(1,4741)	1:77:A:ASP:H	1:131:A:LEU:HD22	5	1.1
(1,4562)	1:77:A:ASP:H	1:131:A:LEU:HD22	5	1.1
(1,3386)	1:65:A:SER:H	1:91:A:LEU:HD22	3	1.1
(1,1895)	1:90:A:LEU:HD13	1:130:A:PHE:HA	3	1.1
(1,1895)	1:90:A:LEU:HD13	1:130:A:PHE:HA	9	1.1
(1,8279)	1:73:A:ALA:H	1:74:A:PHE:HD1	5	1.09
(1,7505)	1:63:A:MET:HB2	1:105:A:PHE:HD1	8	1.09
(1,7408)	1:40:A:LEU:HD11	1:83:A:TRP:HZ2	2	1.09
(1,7408)	1:40:A:LEU:HD12	1:83:A:TRP:HZ2	9	1.09
(1,7190)	1:157:A:ILE:HD13	1:158:A:PRO:HD3	8	1.09
(1,6662)	1:90:A:LEU:HD12	1:130:A:PHE:HA	2	1.09
(1,6662)	1:90:A:LEU:HD11	1:130:A:PHE:HA	10	1.09
(1,6646)	1:129:A:ALA:HB3	1:91:A:LEU:HD11	8	1.09
(1,5070)	1:38:A:ILE:HD11	1:40:A:LEU:HD21	2	1.09
(1,4741)	1:77:A:ASP:H	1:131:A:LEU:HD23	9	1.09
(1,4664)	1:125:A:VAL:HG23	1:142:A:ASN:HA	3	1.09
(1,4664)	1:125:A:VAL:HG22	1:142:A:ASN:HA	5	1.09
(1,4562)	1:77:A:ASP:H	1:131:A:LEU:HD23	9	1.09
(1,4485)	1:125:A:VAL:HG23	1:142:A:ASN:HA	3	1.09
(1,4485)	1:125:A:VAL:HG22	1:142:A:ASN:HA	5	1.09
(1,3512)	1:73:A:ALA:H	1:74:A:PHE:HD1	5	1.09
(1,2738)	1:63:A:MET:HB2	1:105:A:PHE:HD1	8	1.09
(1,2641)	1:40:A:LEU:HD11	1:83:A:TRP:HZ2	2	1.09
(1,2641)	1:40:A:LEU:HD12	1:83:A:TRP:HZ2	9	1.09
(1,2423)	1:157:A:ILE:HD13	1:158:A:PRO:HD3	8	1.09
(1,1895)	1:90:A:LEU:HD12	1:130:A:PHE:HA	2	1.09
(1,1895)	1:90:A:LEU:HD11	1:130:A:PHE:HA	10	1.09
(1,1879)	1:129:A:ALA:HB3	1:91:A:LEU:HD11	8	1.09
(1,303)	1:38:A:ILE:HD11	1:40:A:LEU:HD21	2	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8279)	1:73:A:ALA:H	1:74:A:PHE:HD1	7	1.08
(1,7408)	1:40:A:LEU:HD13	1:83:A:TRP:HZ2	3	1.08
(1,7408)	1:40:A:LEU:HD13	1:83:A:TRP:HZ2	5	1.08
(1,7408)	1:40:A:LEU:HD12	1:83:A:TRP:HZ2	6	1.08
(1,7408)	1:40:A:LEU:HD12	1:83:A:TRP:HZ2	7	1.08
(1,6662)	1:90:A:LEU:HD13	1:130:A:PHE:HA	1	1.08
(1,6662)	1:90:A:LEU:HD12	1:130:A:PHE:HA	4	1.08
(1,5070)	1:38:A:ILE:HD13	1:40:A:LEU:HD23	9	1.08
(1,4688)	1:158:A:PRO:HA	1:157:A:ILE:HD11	2	1.08
(1,4509)	1:158:A:PRO:HA	1:157:A:ILE:HD11	2	1.08
(1,3512)	1:73:A:ALA:H	1:74:A:PHE:HD1	7	1.08
(1,2641)	1:40:A:LEU:HD13	1:83:A:TRP:HZ2	3	1.08
(1,2641)	1:40:A:LEU:HD13	1:83:A:TRP:HZ2	5	1.08
(1,2641)	1:40:A:LEU:HD12	1:83:A:TRP:HZ2	6	1.08
(1,2641)	1:40:A:LEU:HD12	1:83:A:TRP:HZ2	7	1.08
(1,1895)	1:90:A:LEU:HD13	1:130:A:PHE:HA	1	1.08
(1,1895)	1:90:A:LEU:HD12	1:130:A:PHE:HA	4	1.08
(1,303)	1:38:A:ILE:HD13	1:40:A:LEU:HD23	9	1.08
(1,8279)	1:73:A:ALA:H	1:74:A:PHE:HD1	1	1.07
(1,8279)	1:73:A:ALA:H	1:74:A:PHE:HD1	10	1.07
(1,8153)	1:65:A:SER:H	1:91:A:LEU:HD23	10	1.07
(1,7408)	1:40:A:LEU:HD12	1:83:A:TRP:HZ2	10	1.07
(1,7190)	1:157:A:ILE:HD12	1:158:A:PRO:HD3	5	1.07
(1,4741)	1:77:A:ASP:H	1:131:A:LEU:HD21	7	1.07
(1,4562)	1:77:A:ASP:H	1:131:A:LEU:HD21	7	1.07
(1,3512)	1:73:A:ALA:H	1:74:A:PHE:HD1	1	1.07
(1,3512)	1:73:A:ALA:H	1:74:A:PHE:HD1	10	1.07
(1,3386)	1:65:A:SER:H	1:91:A:LEU:HD23	10	1.07
(1,2641)	1:40:A:LEU:HD12	1:83:A:TRP:HZ2	10	1.07
(1,2423)	1:157:A:ILE:HD12	1:158:A:PRO:HD3	5	1.07
(1,8279)	1:73:A:ALA:H	1:74:A:PHE:HD1	6	1.06
(1,7190)	1:157:A:ILE:HD11	1:158:A:PRO:HD3	2	1.06
(1,6662)	1:90:A:LEU:HD13	1:130:A:PHE:HA	7	1.06
(1,4741)	1:77:A:ASP:H	1:131:A:LEU:HD21	3	1.06
(1,4688)	1:158:A:PRO:HA	1:157:A:ILE:HD12	5	1.06
(1,4665)	1:131:A:LEU:HD13	1:138:A:TRP:HB2	6	1.06
(1,4562)	1:77:A:ASP:H	1:131:A:LEU:HD21	3	1.06
(1,4509)	1:158:A:PRO:HA	1:157:A:ILE:HD12	5	1.06
(1,4486)	1:131:A:LEU:HD13	1:138:A:TRP:HB2	6	1.06
(1,3512)	1:73:A:ALA:H	1:74:A:PHE:HD1	6	1.06
(1,2423)	1:157:A:ILE:HD11	1:158:A:PRO:HD3	2	1.06
(1,1895)	1:90:A:LEU:HD13	1:130:A:PHE:HA	7	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6662)	1:90:A:LEU:HD11	1:130:A:PHE:HA	5	1.05
(1,6468)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	8	1.05
(1,5070)	1:38:A:ILE:HD11	1:40:A:LEU:HD23	10	1.05
(1,4665)	1:131:A:LEU:HD11	1:138:A:TRP:HB2	9	1.05
(1,4486)	1:131:A:LEU:HD11	1:138:A:TRP:HB2	9	1.05
(1,1895)	1:90:A:LEU:HD11	1:130:A:PHE:HA	5	1.05
(1,1701)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	8	1.05
(1,303)	1:38:A:ILE:HD11	1:40:A:LEU:HD23	10	1.05
(1,8153)	1:65:A:SER:H	1:91:A:LEU:HD22	6	1.04
(1,8153)	1:65:A:SER:H	1:91:A:LEU:HD23	7	1.04
(1,6662)	1:90:A:LEU:HD11	1:130:A:PHE:HA	8	1.04
(1,5053)	1:40:A:LEU:HD11	1:64:A:ILE:H	7	1.04
(1,5053)	1:40:A:LEU:HD11	1:64:A:ILE:H	8	1.04
(1,4627)	1:66:A:ILE:HG21	1:114:A:LYS:H	7	1.04
(1,4448)	1:66:A:ILE:HG21	1:114:A:LYS:H	7	1.04
(1,3386)	1:65:A:SER:H	1:91:A:LEU:HD22	6	1.04
(1,3386)	1:65:A:SER:H	1:91:A:LEU:HD23	7	1.04
(1,1895)	1:90:A:LEU:HD11	1:130:A:PHE:HA	8	1.04
(1,286)	1:40:A:LEU:HD11	1:64:A:ILE:H	7	1.04
(1,286)	1:40:A:LEU:HD11	1:64:A:ILE:H	8	1.04
(1,8295)	1:75:A:ILE:H	1:74:A:PHE:HD1	3	1.03
(1,8279)	1:73:A:ALA:H	1:74:A:PHE:HD1	2	1.03
(1,7329)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	2	1.03
(1,6468)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	5	1.03
(1,5741)	1:75:A:ILE:HG23	1:71:A:GLU:HG3	2	1.03
(1,3528)	1:75:A:ILE:H	1:74:A:PHE:HD1	3	1.03
(1,3512)	1:73:A:ALA:H	1:74:A:PHE:HD1	2	1.03
(1,2562)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	2	1.03
(1,1701)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	5	1.03
(1,974)	1:75:A:ILE:HG23	1:71:A:GLU:HG3	2	1.03
(1,8279)	1:73:A:ALA:H	1:74:A:PHE:HD1	8	1.02
(1,7334)	1:35:A:SER:HB2	1:37:A:TYR:HE1	4	1.02
(1,7190)	1:157:A:ILE:HD12	1:158:A:PRO:HD3	6	1.02
(1,5070)	1:38:A:ILE:HD12	1:40:A:LEU:HD23	6	1.02
(1,5053)	1:40:A:LEU:HD13	1:64:A:ILE:H	1	1.02
(1,5053)	1:40:A:LEU:HD13	1:64:A:ILE:H	10	1.02
(1,4665)	1:131:A:LEU:HD12	1:88:A:ASP:HB3	3	1.02
(1,4665)	1:131:A:LEU:HD13	1:138:A:TRP:HB2	7	1.02
(1,4486)	1:131:A:LEU:HD12	1:88:A:ASP:HB3	3	1.02
(1,4486)	1:131:A:LEU:HD13	1:138:A:TRP:HB2	7	1.02
(1,3512)	1:73:A:ALA:H	1:74:A:PHE:HD1	8	1.02
(1,2567)	1:35:A:SER:HB2	1:37:A:TYR:HE1	4	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2423)	1:157:A:ILE:HD12	1:158:A:PRO:HD3	6	1.02
(1,303)	1:38:A:ILE:HD12	1:40:A:LEU:HD23	6	1.02
(1,286)	1:40:A:LEU:HD13	1:64:A:ILE:H	1	1.02
(1,286)	1:40:A:LEU:HD13	1:64:A:ILE:H	10	1.02
(1,8295)	1:75:A:ILE:H	1:74:A:PHE:HD1	10	1.01
(1,8279)	1:73:A:ALA:H	1:74:A:PHE:HD1	4	1.01
(1,7329)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	3	1.01
(1,7190)	1:157:A:ILE:HD13	1:158:A:PRO:HD3	4	1.01
(1,5053)	1:40:A:LEU:HD12	1:64:A:ILE:H	2	1.01
(1,5053)	1:40:A:LEU:HD11	1:64:A:ILE:H	3	1.01
(1,5053)	1:40:A:LEU:HD11	1:64:A:ILE:H	4	1.01
(1,4665)	1:131:A:LEU:HD13	1:88:A:ASP:HB3	5	1.01
(1,4486)	1:131:A:LEU:HD13	1:88:A:ASP:HB3	5	1.01
(1,3528)	1:75:A:ILE:H	1:74:A:PHE:HD1	10	1.01
(1,3512)	1:73:A:ALA:H	1:74:A:PHE:HD1	4	1.01
(1,2562)	1:37:A:TYR:HD1	1:74:A:PHE:HE1	3	1.01
(1,2423)	1:157:A:ILE:HD13	1:158:A:PRO:HD3	4	1.01
(1,286)	1:40:A:LEU:HD12	1:64:A:ILE:H	2	1.01
(1,286)	1:40:A:LEU:HD11	1:64:A:ILE:H	3	1.01
(1,286)	1:40:A:LEU:HD11	1:64:A:ILE:H	4	1.01
(1,8153)	1:65:A:SER:H	1:91:A:LEU:HD23	2	1.0
(1,6468)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	2	1.0
(1,6067)	1:89:A:ILE:HG21	1:83:A:TRP:HB2	7	1.0
(1,5053)	1:40:A:LEU:HD13	1:64:A:ILE:H	6	1.0
(1,3386)	1:65:A:SER:H	1:91:A:LEU:HD23	2	1.0
(1,1701)	1:114:A:LYS:HD3	1:112:A:PHE:HE1	2	1.0
(1,1300)	1:89:A:ILE:HG21	1:83:A:TRP:HB2	7	1.0
(1,286)	1:40:A:LEU:HD13	1:64:A:ILE:H	6	1.0
(1,8611)	1:105:A:PHE:H	1:105:A:PHE:HE1	4	0.99
(1,8611)	1:105:A:PHE:H	1:105:A:PHE:HE1	9	0.99
(1,8295)	1:75:A:ILE:H	1:74:A:PHE:HD1	5	0.99
(1,6662)	1:90:A:LEU:HD11	1:130:A:PHE:HA	6	0.99
(1,4688)	1:158:A:PRO:HA	1:157:A:ILE:HD13	4	0.99
(1,4509)	1:158:A:PRO:HA	1:157:A:ILE:HD13	4	0.99
(1,3844)	1:105:A:PHE:H	1:105:A:PHE:HE1	4	0.99
(1,3844)	1:105:A:PHE:H	1:105:A:PHE:HE1	9	0.99
(1,3528)	1:75:A:ILE:H	1:74:A:PHE:HD1	5	0.99
(1,1895)	1:90:A:LEU:HD11	1:130:A:PHE:HA	6	0.99
(1,8295)	1:75:A:ILE:H	1:74:A:PHE:HD1	7	0.98
(1,7063)	1:152:A:LEU:HD11	1:154:A:LYS:H	4	0.98
(1,6443)	1:113:A:ASP:HB2	1:91:A:LEU:HD22	5	0.98
(1,6443)	1:113:A:ASP:HB2	1:91:A:LEU:HD22	9	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5070)	1:38:A:ILE:HD12	1:40:A:LEU:HD21	1	0.98
(1,3528)	1:75:A:ILE:H	1:74:A:PHE:HD1	7	0.98
(1,2296)	1:152:A:LEU:HD11	1:154:A:LYS:H	4	0.98
(1,1676)	1:113:A:ASP:HB2	1:91:A:LEU:HD22	5	0.98
(1,1676)	1:113:A:ASP:HB2	1:91:A:LEU:HD22	9	0.98
(1,303)	1:38:A:ILE:HD12	1:40:A:LEU:HD21	1	0.98
(1,8295)	1:75:A:ILE:H	1:74:A:PHE:HD1	9	0.97
(1,8294)	1:75:A:ILE:H	1:74:A:PHE:HE1	3	0.97
(1,7309)	1:71:A:GLU:HA	1:32:A:PHE:HE1	1	0.97
(1,7063)	1:152:A:LEU:HD13	1:154:A:LYS:H	1	0.97
(1,7063)	1:152:A:LEU:HD13	1:154:A:LYS:H	3	0.97
(1,6646)	1:129:A:ALA:HB1	1:91:A:LEU:HD11	6	0.97
(1,6443)	1:113:A:ASP:HB2	1:91:A:LEU:HD22	1	0.97
(1,5053)	1:40:A:LEU:HD12	1:64:A:ILE:H	5	0.97
(1,3528)	1:75:A:ILE:H	1:74:A:PHE:HD1	9	0.97
(1,3527)	1:75:A:ILE:H	1:74:A:PHE:HE1	3	0.97
(1,2542)	1:71:A:GLU:HA	1:32:A:PHE:HE1	1	0.97
(1,2296)	1:152:A:LEU:HD13	1:154:A:LYS:H	1	0.97
(1,2296)	1:152:A:LEU:HD13	1:154:A:LYS:H	3	0.97
(1,1879)	1:129:A:ALA:HB1	1:91:A:LEU:HD11	6	0.97
(1,1676)	1:113:A:ASP:HB2	1:91:A:LEU:HD22	1	0.97
(1,286)	1:40:A:LEU:HD12	1:64:A:ILE:H	5	0.97
(1,8611)	1:105:A:PHE:H	1:105:A:PHE:HE1	3	0.96
(1,8295)	1:75:A:ILE:H	1:74:A:PHE:HD1	4	0.96
(1,7080)	1:152:A:LEU:HD21	1:153:A:CYS:HB2	4	0.96
(1,7063)	1:152:A:LEU:HD12	1:154:A:LYS:H	2	0.96
(1,3844)	1:105:A:PHE:H	1:105:A:PHE:HE1	3	0.96
(1,3528)	1:75:A:ILE:H	1:74:A:PHE:HD1	4	0.96
(1,2313)	1:152:A:LEU:HD21	1:153:A:CYS:HB2	4	0.96
(1,2296)	1:152:A:LEU:HD12	1:154:A:LYS:H	2	0.96
(1,8611)	1:105:A:PHE:H	1:105:A:PHE:HE1	5	0.95
(1,7063)	1:152:A:LEU:HD12	1:154:A:LYS:H	5	0.95
(1,7063)	1:152:A:LEU:HD12	1:154:A:LYS:H	6	0.95
(1,7063)	1:152:A:LEU:HD12	1:154:A:LYS:H	9	0.95
(1,6261)	1:97:A:THR:HG21	1:124:A:LEU:HD21	2	0.95
(1,3844)	1:105:A:PHE:H	1:105:A:PHE:HE1	5	0.95
(1,2296)	1:152:A:LEU:HD12	1:154:A:LYS:H	5	0.95
(1,2296)	1:152:A:LEU:HD12	1:154:A:LYS:H	6	0.95
(1,2296)	1:152:A:LEU:HD12	1:154:A:LYS:H	9	0.95
(1,1494)	1:97:A:THR:HG21	1:124:A:LEU:HD21	2	0.95
(1,8295)	1:75:A:ILE:H	1:74:A:PHE:HD1	6	0.94
(1,7063)	1:152:A:LEU:HD11	1:154:A:LYS:H	7	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7063)	1:152:A:LEU:HD12	1:154:A:LYS:H	8	0.94
(1,7063)	1:152:A:LEU:HD12	1:154:A:LYS:H	10	0.94
(1,6261)	1:97:A:THR:HG21	1:124:A:LEU:HD23	4	0.94
(1,6138)	1:91:A:LEU:HD11	1:136:A:GLY:HA2	7	0.94
(1,6138)	1:91:A:LEU:HD12	1:136:A:GLY:HA2	10	0.94
(1,5741)	1:75:A:ILE:HG21	1:71:A:GLU:HG3	7	0.94
(1,3528)	1:75:A:ILE:H	1:74:A:PHE:HD1	6	0.94
(1,2296)	1:152:A:LEU:HD11	1:154:A:LYS:H	7	0.94
(1,2296)	1:152:A:LEU:HD12	1:154:A:LYS:H	8	0.94
(1,2296)	1:152:A:LEU:HD12	1:154:A:LYS:H	10	0.94
(1,1494)	1:97:A:THR:HG21	1:124:A:LEU:HD23	4	0.94
(1,1371)	1:91:A:LEU:HD11	1:136:A:GLY:HA2	7	0.94
(1,1371)	1:91:A:LEU:HD12	1:136:A:GLY:HA2	10	0.94
(1,974)	1:75:A:ILE:HG21	1:71:A:GLU:HG3	7	0.94
(1,8294)	1:75:A:ILE:H	1:74:A:PHE:HE1	7	0.93
(1,8294)	1:75:A:ILE:H	1:74:A:PHE:HE1	10	0.93
(1,7505)	1:63:A:MET:HB2	1:105:A:PHE:HD1	3	0.93
(1,6443)	1:113:A:ASP:HB2	1:91:A:LEU:HD23	4	0.93
(1,6138)	1:91:A:LEU:HD11	1:136:A:GLY:HA2	9	0.93
(1,6067)	1:89:A:ILE:HG22	1:83:A:TRP:HB2	5	0.93
(1,5053)	1:40:A:LEU:HD13	1:64:A:ILE:H	9	0.93
(1,3527)	1:75:A:ILE:H	1:74:A:PHE:HE1	7	0.93
(1,3527)	1:75:A:ILE:H	1:74:A:PHE:HE1	10	0.93
(1,2738)	1:63:A:MET:HB2	1:105:A:PHE:HD1	3	0.93
(1,1676)	1:113:A:ASP:HB2	1:91:A:LEU:HD23	4	0.93
(1,1371)	1:91:A:LEU:HD11	1:136:A:GLY:HA2	9	0.93
(1,1300)	1:89:A:ILE:HG22	1:83:A:TRP:HB2	5	0.93
(1,286)	1:40:A:LEU:HD13	1:64:A:ILE:H	9	0.93
(1,8458)	1:92:A:GLY:H	1:131:A:LEU:HD23	7	0.92
(1,8294)	1:75:A:ILE:H	1:74:A:PHE:HE1	4	0.92
(1,8294)	1:75:A:ILE:H	1:74:A:PHE:HE1	5	0.92
(1,6138)	1:91:A:LEU:HD13	1:136:A:GLY:HA2	6	0.92
(1,5741)	1:75:A:ILE:HG23	1:71:A:GLU:HG3	3	0.92
(1,5741)	1:75:A:ILE:HG23	1:71:A:GLU:HG3	8	0.92
(1,4833)	1:28:A:THR:HG21	1:38:A:ILE:HG21	10	0.92
(1,4604)	1:49:A:ILE:HG22	1:143:A:CYS:HA	9	0.92
(1,4425)	1:49:A:ILE:HG22	1:143:A:CYS:HA	9	0.92
(1,3691)	1:92:A:GLY:H	1:131:A:LEU:HD23	7	0.92
(1,3527)	1:75:A:ILE:H	1:74:A:PHE:HE1	4	0.92
(1,3527)	1:75:A:ILE:H	1:74:A:PHE:HE1	5	0.92
(1,1371)	1:91:A:LEU:HD13	1:136:A:GLY:HA2	6	0.92
(1,974)	1:75:A:ILE:HG23	1:71:A:GLU:HG3	3	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,974)	1:75:A:ILE:HG23	1:71:A:GLU:HG3	8	0.92
(1,66)	1:28:A:THR:HG21	1:38:A:ILE:HG21	10	0.92
(1,8611)	1:105:A:PHE:H	1:105:A:PHE:HE1	2	0.91
(1,8611)	1:105:A:PHE:H	1:105:A:PHE:HE1	7	0.91
(1,8611)	1:105:A:PHE:H	1:105:A:PHE:HE1	10	0.91
(1,8295)	1:75:A:ILE:H	1:74:A:PHE:HD1	8	0.91
(1,7505)	1:63:A:MET:HB2	1:105:A:PHE:HD1	5	0.91
(1,5619)	1:69:A:GLU:HG2	1:73:A:ALA:HB2	4	0.91
(1,4627)	1:66:A:ILE:HG23	1:114:A:LYS:H	6	0.91
(1,4448)	1:66:A:ILE:HG23	1:114:A:LYS:H	6	0.91
(1,3844)	1:105:A:PHE:H	1:105:A:PHE:HE1	2	0.91
(1,3844)	1:105:A:PHE:H	1:105:A:PHE:HE1	7	0.91
(1,3844)	1:105:A:PHE:H	1:105:A:PHE:HE1	10	0.91
(1,3528)	1:75:A:ILE:H	1:74:A:PHE:HD1	8	0.91
(1,2738)	1:63:A:MET:HB2	1:105:A:PHE:HD1	5	0.91
(1,852)	1:69:A:GLU:HG2	1:73:A:ALA:HB2	4	0.91
(1,8611)	1:105:A:PHE:H	1:105:A:PHE:HE1	1	0.9
(1,8611)	1:105:A:PHE:H	1:105:A:PHE:HE1	8	0.9
(1,8295)	1:75:A:ILE:H	1:74:A:PHE:HD1	1	0.9
(1,8295)	1:75:A:ILE:H	1:74:A:PHE:HD1	2	0.9
(1,7375)	1:71:A:GLU:HA	1:74:A:PHE:HD1	3	0.9
(1,7375)	1:71:A:GLU:HA	1:74:A:PHE:HD1	9	0.9
(1,6646)	1:129:A:ALA:HB1	1:91:A:LEU:HD12	7	0.9
(1,6443)	1:113:A:ASP:HB2	1:91:A:LEU:HD22	3	0.9
(1,6443)	1:113:A:ASP:HB2	1:91:A:LEU:HD23	8	0.9
(1,6261)	1:97:A:THR:HG21	1:124:A:LEU:HD23	8	0.9
(1,6138)	1:91:A:LEU:HD11	1:136:A:GLY:HA2	3	0.9
(1,6067)	1:89:A:ILE:HG22	1:83:A:TRP:HB2	3	0.9
(1,5736)	1:75:A:ILE:HG21	1:78:A:THR:HG22	3	0.9
(1,5736)	1:75:A:ILE:HG22	1:78:A:THR:HG23	7	0.9
(1,4618)	1:64:A:ILE:HA	1:154:A:LYS:HE2	4	0.9
(1,4439)	1:64:A:ILE:HA	1:154:A:LYS:HE2	4	0.9
(1,3844)	1:105:A:PHE:H	1:105:A:PHE:HE1	1	0.9
(1,3844)	1:105:A:PHE:H	1:105:A:PHE:HE1	8	0.9
(1,3528)	1:75:A:ILE:H	1:74:A:PHE:HD1	1	0.9
(1,3528)	1:75:A:ILE:H	1:74:A:PHE:HD1	2	0.9
(1,2608)	1:71:A:GLU:HA	1:74:A:PHE:HD1	3	0.9
(1,2608)	1:71:A:GLU:HA	1:74:A:PHE:HD1	9	0.9
(1,1879)	1:129:A:ALA:HB1	1:91:A:LEU:HD12	7	0.9
(1,1676)	1:113:A:ASP:HB2	1:91:A:LEU:HD22	3	0.9
(1,1676)	1:113:A:ASP:HB2	1:91:A:LEU:HD23	8	0.9
(1,1494)	1:97:A:THR:HG21	1:124:A:LEU:HD23	8	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1371)	1:91:A:LEU:HD11	1:136:A:GLY:HA2	3	0.9
(1,1300)	1:89:A:ILE:HG22	1:83:A:TRP:HB2	3	0.9
(1,969)	1:75:A:ILE:HG21	1:78:A:THR:HG22	3	0.9
(1,969)	1:75:A:ILE:HG22	1:78:A:THR:HG23	7	0.9
(1,8611)	1:105:A:PHE:H	1:105:A:PHE:HE1	6	0.89
(1,8294)	1:75:A:ILE:H	1:74:A:PHE:HE1	9	0.89
(1,7375)	1:71:A:GLU:HA	1:74:A:PHE:HD1	5	0.89
(1,7375)	1:71:A:GLU:HA	1:74:A:PHE:HD1	7	0.89
(1,6585)	1:125:A:VAL:HA	1:97:A:THR:HG21	5	0.89
(1,6585)	1:125:A:VAL:HA	1:97:A:THR:HG22	7	0.89
(1,6261)	1:97:A:THR:HG22	1:124:A:LEU:HD23	6	0.89
(1,6138)	1:91:A:LEU:HD11	1:136:A:GLY:HA2	2	0.89
(1,6067)	1:89:A:ILE:HG21	1:83:A:TRP:HB2	2	0.89
(1,6067)	1:89:A:ILE:HG23	1:83:A:TRP:HB2	8	0.89
(1,6067)	1:89:A:ILE:HG21	1:83:A:TRP:HB2	10	0.89
(1,5736)	1:75:A:ILE:HG22	1:78:A:THR:HG23	5	0.89
(1,4643)	1:78:A:THR:HB	1:82:A:GLN:HB3	4	0.89
(1,4623)	1:64:A:ILE:HG23	1:65:A:SER:HB2	3	0.89
(1,4464)	1:78:A:THR:HB	1:82:A:GLN:HB3	4	0.89
(1,4444)	1:64:A:ILE:HG23	1:65:A:SER:HB2	3	0.89
(1,3844)	1:105:A:PHE:H	1:105:A:PHE:HE1	6	0.89
(1,3527)	1:75:A:ILE:H	1:74:A:PHE:HE1	9	0.89
(1,2608)	1:71:A:GLU:HA	1:74:A:PHE:HD1	5	0.89
(1,2608)	1:71:A:GLU:HA	1:74:A:PHE:HD1	7	0.89
(1,1818)	1:125:A:VAL:HA	1:97:A:THR:HG21	5	0.89
(1,1818)	1:125:A:VAL:HA	1:97:A:THR:HG22	7	0.89
(1,1494)	1:97:A:THR:HG22	1:124:A:LEU:HD23	6	0.89
(1,1371)	1:91:A:LEU:HD11	1:136:A:GLY:HA2	2	0.89
(1,1300)	1:89:A:ILE:HG21	1:83:A:TRP:HB2	2	0.89
(1,1300)	1:89:A:ILE:HG23	1:83:A:TRP:HB2	8	0.89
(1,1300)	1:89:A:ILE:HG21	1:83:A:TRP:HB2	10	0.89
(1,969)	1:75:A:ILE:HG22	1:78:A:THR:HG23	5	0.89
(1,8458)	1:92:A:GLY:H	1:131:A:LEU:HD23	3	0.88
(1,8294)	1:75:A:ILE:H	1:74:A:PHE:HE1	8	0.88
(1,7161)	1:155:A:THR:HG23	1:35:A:SER:HB2	5	0.88
(1,6646)	1:129:A:ALA:HB1	1:91:A:LEU:HD12	2	0.88
(1,5476)	1:64:A:ILE:HD11	1:74:A:PHE:HB3	10	0.88
(1,4627)	1:66:A:ILE:HG21	1:114:A:LYS:H	3	0.88
(1,4604)	1:49:A:ILE:HG22	1:143:A:CYS:HA	5	0.88
(1,4448)	1:66:A:ILE:HG21	1:114:A:LYS:H	3	0.88
(1,4425)	1:49:A:ILE:HG22	1:143:A:CYS:HA	5	0.88
(1,3691)	1:92:A:GLY:H	1:131:A:LEU:HD23	3	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3527)	1:75:A:ILE:H	1:74:A:PHE:HE1	8	0.88
(1,2394)	1:155:A:THR:HG23	1:35:A:SER:HB2	5	0.88
(1,1879)	1:129:A:ALA:HB1	1:91:A:LEU:HD12	2	0.88
(1,709)	1:64:A:ILE:HD11	1:74:A:PHE:HB3	10	0.88
(1,8919)	1:137:A:GLU:H	1:89:A:ILE:HD11	7	0.87
(1,8458)	1:92:A:GLY:H	1:131:A:LEU:HD23	4	0.87
(1,8458)	1:92:A:GLY:H	1:131:A:LEU:HD22	9	0.87
(1,8294)	1:75:A:ILE:H	1:74:A:PHE:HE1	6	0.87
(1,7505)	1:63:A:MET:HB2	1:105:A:PHE:HD1	9	0.87
(1,7161)	1:155:A:THR:HG23	1:35:A:SER:HB2	1	0.87
(1,7161)	1:155:A:THR:HG21	1:35:A:SER:HB2	2	0.87
(1,7161)	1:155:A:THR:HG21	1:35:A:SER:HB2	4	0.87
(1,6265)	1:97:A:THR:HG21	1:101:A:SER:H	6	0.87
(1,5741)	1:75:A:ILE:HG21	1:71:A:GLU:HG3	9	0.87
(1,4688)	1:158:A:PRO:HA	1:157:A:ILE:HD12	6	0.87
(1,4643)	1:78:A:THR:HB	1:82:A:GLN:HB3	8	0.87
(1,4627)	1:66:A:ILE:HG21	1:114:A:LYS:H	9	0.87
(1,4623)	1:64:A:ILE:HG23	1:65:A:SER:HB2	10	0.87
(1,4509)	1:158:A:PRO:HA	1:157:A:ILE:HD12	6	0.87
(1,4464)	1:78:A:THR:HB	1:82:A:GLN:HB3	8	0.87
(1,4448)	1:66:A:ILE:HG21	1:114:A:LYS:H	9	0.87
(1,4444)	1:64:A:ILE:HG23	1:65:A:SER:HB2	10	0.87
(1,4152)	1:137:A:GLU:H	1:89:A:ILE:HD11	7	0.87
(1,3691)	1:92:A:GLY:H	1:131:A:LEU:HD23	4	0.87
(1,3691)	1:92:A:GLY:H	1:131:A:LEU:HD22	9	0.87
(1,3527)	1:75:A:ILE:H	1:74:A:PHE:HE1	6	0.87
(1,2738)	1:63:A:MET:HB2	1:105:A:PHE:HD1	9	0.87
(1,2394)	1:155:A:THR:HG23	1:35:A:SER:HB2	1	0.87
(1,2394)	1:155:A:THR:HG21	1:35:A:SER:HB2	2	0.87
(1,2394)	1:155:A:THR:HG21	1:35:A:SER:HB2	4	0.87
(1,1498)	1:97:A:THR:HG21	1:101:A:SER:H	6	0.87
(1,974)	1:75:A:ILE:HG21	1:71:A:GLU:HG3	9	0.87
(1,8458)	1:92:A:GLY:H	1:131:A:LEU:HD21	5	0.86
(1,7569)	1:145:A:VAL:HG23	1:130:A:PHE:HZ	7	0.86
(1,7569)	1:145:A:VAL:HG21	1:130:A:PHE:HZ	10	0.86
(1,7228)	1:156:A:ALA:HB3	1:158:A:PRO:HD2	7	0.86
(1,7161)	1:155:A:THR:HG22	1:35:A:SER:HB2	3	0.86
(1,6585)	1:125:A:VAL:HA	1:97:A:THR:HG22	6	0.86
(1,6585)	1:125:A:VAL:HA	1:97:A:THR:HG21	8	0.86
(1,6067)	1:89:A:ILE:HG21	1:83:A:TRP:HB2	6	0.86
(1,5335)	1:54:A:ASN:HB2	1:52:A:VAL:HG23	8	0.86
(1,3691)	1:92:A:GLY:H	1:131:A:LEU:HD21	5	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2802)	1:145:A:VAL:HG23	1:130:A:PHE:HZ	7	0.86
(1,2802)	1:145:A:VAL:HG21	1:130:A:PHE:HZ	10	0.86
(1,2461)	1:156:A:ALA:HB3	1:158:A:PRO:HD2	7	0.86
(1,2394)	1:155:A:THR:HG22	1:35:A:SER:HB2	3	0.86
(1,1818)	1:125:A:VAL:HA	1:97:A:THR:HG22	6	0.86
(1,1818)	1:125:A:VAL:HA	1:97:A:THR:HG21	8	0.86
(1,1300)	1:89:A:ILE:HG21	1:83:A:TRP:HB2	6	0.86
(1,568)	1:54:A:ASN:HB2	1:52:A:VAL:HG23	8	0.86
(1,7375)	1:71:A:GLU:HA	1:74:A:PHE:HD1	10	0.85
(1,7161)	1:155:A:THR:HG22	1:35:A:SER:HB2	9	0.85
(1,7161)	1:155:A:THR:HG22	1:35:A:SER:HB2	10	0.85
(1,7080)	1:152:A:LEU:HD23	1:153:A:CYS:HB2	2	0.85
(1,7080)	1:152:A:LEU:HD23	1:153:A:CYS:HB2	7	0.85
(1,7061)	1:152:A:LEU:HD12	1:78:A:THR:H	4	0.85
(1,6585)	1:125:A:VAL:HA	1:97:A:THR:HG21	2	0.85
(1,6265)	1:97:A:THR:HG22	1:101:A:SER:H	7	0.85
(1,5619)	1:69:A:GLU:HG2	1:73:A:ALA:HB1	7	0.85
(1,5476)	1:64:A:ILE:HD11	1:74:A:PHE:HB3	9	0.85
(1,5335)	1:54:A:ASN:HB2	1:52:A:VAL:HG22	7	0.85
(1,4717)	1:36:A:CYS:H	1:157:A:ILE:HG13	6	0.85
(1,4618)	1:64:A:ILE:HA	1:154:A:LYS:HE3	8	0.85
(1,4607)	1:52:A:VAL:HG12	1:46:A:VAL:HA	3	0.85
(1,4538)	1:36:A:CYS:H	1:157:A:ILE:HG13	6	0.85
(1,4439)	1:64:A:ILE:HA	1:154:A:LYS:HE3	8	0.85
(1,4428)	1:52:A:VAL:HG12	1:46:A:VAL:HA	3	0.85
(1,2608)	1:71:A:GLU:HA	1:74:A:PHE:HD1	10	0.85
(1,2394)	1:155:A:THR:HG22	1:35:A:SER:HB2	9	0.85
(1,2394)	1:155:A:THR:HG22	1:35:A:SER:HB2	10	0.85
(1,2313)	1:152:A:LEU:HD23	1:153:A:CYS:HB2	2	0.85
(1,2313)	1:152:A:LEU:HD23	1:153:A:CYS:HB2	7	0.85
(1,2294)	1:152:A:LEU:HD12	1:78:A:THR:H	4	0.85
(1,1818)	1:125:A:VAL:HA	1:97:A:THR:HG21	2	0.85
(1,1498)	1:97:A:THR:HG22	1:101:A:SER:H	7	0.85
(1,852)	1:69:A:GLU:HG2	1:73:A:ALA:HB1	7	0.85
(1,709)	1:64:A:ILE:HD11	1:74:A:PHE:HB3	9	0.85
(1,568)	1:54:A:ASN:HB2	1:52:A:VAL:HG22	7	0.85
(1,8919)	1:137:A:GLU:H	1:89:A:ILE:HD11	4	0.84
(1,8919)	1:137:A:GLU:H	1:89:A:ILE:HD13	9	0.84
(1,8294)	1:75:A:ILE:H	1:74:A:PHE:HE1	2	0.84
(1,7228)	1:156:A:ALA:HB3	1:158:A:PRO:HD2	10	0.84
(1,7171)	1:156:A:ALA:HB1	1:154:A:LYS:HE2	5	0.84
(1,7061)	1:152:A:LEU:HD11	1:78:A:THR:H	8	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6616)	1:127:A:THR:HG21	1:139:A:LYS:HA	6	0.84
(1,6616)	1:127:A:THR:HG23	1:139:A:LYS:HA	10	0.84
(1,6585)	1:125:A:VAL:HA	1:97:A:THR:HG22	4	0.84
(1,6585)	1:125:A:VAL:HA	1:97:A:THR:HG23	9	0.84
(1,6585)	1:125:A:VAL:HA	1:97:A:THR:HG21	10	0.84
(1,6265)	1:97:A:THR:HG23	1:101:A:SER:H	2	0.84
(1,5619)	1:69:A:GLU:HG2	1:73:A:ALA:HB2	8	0.84
(1,5335)	1:54:A:ASN:HB2	1:52:A:VAL:HG23	4	0.84
(1,5335)	1:54:A:ASN:HB2	1:52:A:VAL:HG21	10	0.84
(1,4940)	1:36:A:CYS:HA	1:74:A:PHE:HE1	7	0.84
(1,4637)	1:75:A:ILE:HG23	1:152:A:LEU:HB3	4	0.84
(1,4616)	1:93:A:MET:H	1:63:A:MET:HE2	5	0.84
(1,4458)	1:75:A:ILE:HG23	1:152:A:LEU:HB3	4	0.84
(1,4437)	1:93:A:MET:H	1:63:A:MET:HE2	5	0.84
(1,4152)	1:137:A:GLU:H	1:89:A:ILE:HD11	4	0.84
(1,4152)	1:137:A:GLU:H	1:89:A:ILE:HD13	9	0.84
(1,3527)	1:75:A:ILE:H	1:74:A:PHE:HE1	2	0.84
(1,2461)	1:156:A:ALA:HB3	1:158:A:PRO:HD2	10	0.84
(1,2404)	1:156:A:ALA:HB1	1:154:A:LYS:HE2	5	0.84
(1,2294)	1:152:A:LEU:HD11	1:78:A:THR:H	8	0.84
(1,1849)	1:127:A:THR:HG21	1:139:A:LYS:HA	6	0.84
(1,1849)	1:127:A:THR:HG23	1:139:A:LYS:HA	10	0.84
(1,1818)	1:125:A:VAL:HA	1:97:A:THR:HG22	4	0.84
(1,1818)	1:125:A:VAL:HA	1:97:A:THR:HG23	9	0.84
(1,1818)	1:125:A:VAL:HA	1:97:A:THR:HG21	10	0.84
(1,1498)	1:97:A:THR:HG23	1:101:A:SER:H	2	0.84
(1,852)	1:69:A:GLU:HG2	1:73:A:ALA:HB2	8	0.84
(1,568)	1:54:A:ASN:HB2	1:52:A:VAL:HG23	4	0.84
(1,568)	1:54:A:ASN:HB2	1:52:A:VAL:HG21	10	0.84
(1,173)	1:36:A:CYS:HA	1:74:A:PHE:HE1	7	0.84
(1,8919)	1:137:A:GLU:H	1:89:A:ILE:HD13	5	0.83
(1,8327)	1:78:A:THR:H	1:76:A:LEU:HD23	9	0.83
(1,7569)	1:145:A:VAL:HG23	1:130:A:PHE:HZ	9	0.83
(1,7161)	1:155:A:THR:HG21	1:35:A:SER:HB2	8	0.83
(1,6265)	1:97:A:THR:HG23	1:101:A:SER:H	10	0.83
(1,6261)	1:97:A:THR:HG22	1:124:A:LEU:HD21	1	0.83
(1,6067)	1:89:A:ILE:HG21	1:83:A:TRP:HB2	4	0.83
(1,6067)	1:89:A:ILE:HG21	1:83:A:TRP:HB2	9	0.83
(1,5476)	1:64:A:ILE:HD12	1:74:A:PHE:HB3	5	0.83
(1,5335)	1:54:A:ASN:HB2	1:52:A:VAL:HG21	1	0.83
(1,5316)	1:52:A:VAL:HG21	1:149:A:GLU:H	7	0.83
(1,4717)	1:36:A:CYS:H	1:156:A:ALA:HB1	5	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4616)	1:93:A:MET:H	1:63:A:MET:HE2	1	0.83
(1,4604)	1:49:A:ILE:HG23	1:143:A:CYS:HA	3	0.83
(1,4598)	1:46:A:VAL:HG21	1:44:A:ILE:HB	10	0.83
(1,4538)	1:36:A:CYS:H	1:156:A:ALA:HB1	5	0.83
(1,4437)	1:93:A:MET:H	1:63:A:MET:HE2	1	0.83
(1,4425)	1:49:A:ILE:HG23	1:143:A:CYS:HA	3	0.83
(1,4419)	1:46:A:VAL:HG21	1:44:A:ILE:HB	10	0.83
(1,4152)	1:137:A:GLU:H	1:89:A:ILE:HD13	5	0.83
(1,3560)	1:78:A:THR:H	1:76:A:LEU:HD23	9	0.83
(1,2802)	1:145:A:VAL:HG23	1:130:A:PHE:HZ	9	0.83
(1,2394)	1:155:A:THR:HG21	1:35:A:SER:HB2	8	0.83
(1,1498)	1:97:A:THR:HG23	1:101:A:SER:H	10	0.83
(1,1494)	1:97:A:THR:HG22	1:124:A:LEU:HD21	1	0.83
(1,1300)	1:89:A:ILE:HG21	1:83:A:TRP:HB2	4	0.83
(1,1300)	1:89:A:ILE:HG21	1:83:A:TRP:HB2	9	0.83
(1,709)	1:64:A:ILE:HD12	1:74:A:PHE:HB3	5	0.83
(1,568)	1:54:A:ASN:HB2	1:52:A:VAL:HG21	1	0.83
(1,549)	1:52:A:VAL:HG21	1:149:A:GLU:H	7	0.83
(1,8919)	1:137:A:GLU:H	1:89:A:ILE:HD12	3	0.82
(1,8919)	1:137:A:GLU:H	1:89:A:ILE:HD11	6	0.82
(1,8458)	1:92:A:GLY:H	1:131:A:LEU:HD23	2	0.82
(1,8458)	1:92:A:GLY:H	1:131:A:LEU:HD21	8	0.82
(1,8294)	1:75:A:ILE:H	1:74:A:PHE:HE1	1	0.82
(1,7161)	1:155:A:THR:HG21	1:35:A:SER:HB2	6	0.82
(1,7080)	1:152:A:LEU:HD22	1:153:A:CYS:HB2	8	0.82
(1,7061)	1:152:A:LEU:HD11	1:78:A:THR:H	1	0.82
(1,7061)	1:152:A:LEU:HD11	1:78:A:THR:H	2	0.82
(1,6585)	1:125:A:VAL:HA	1:97:A:THR:HG22	3	0.82
(1,6265)	1:97:A:THR:HG22	1:101:A:SER:H	1	0.82
(1,6265)	1:97:A:THR:HG23	1:101:A:SER:H	8	0.82
(1,6261)	1:97:A:THR:HG23	1:124:A:LEU:HD22	10	0.82
(1,6138)	1:91:A:LEU:HD12	1:136:A:GLY:HA2	1	0.82
(1,5780)	1:76:A:LEU:HD13	1:138:A:TRP:HZ2	1	0.82
(1,5619)	1:69:A:GLU:HG2	1:73:A:ALA:HB1	10	0.82
(1,5335)	1:54:A:ASN:HB2	1:52:A:VAL:HG22	5	0.82
(1,5335)	1:54:A:ASN:HB2	1:52:A:VAL:HG21	9	0.82
(1,4940)	1:36:A:CYS:HA	1:74:A:PHE:HE1	9	0.82
(1,4882)	1:30:A:ILE:HG21	1:81:A:LYS:HE2	6	0.82
(1,4743)	1:83:A:TRP:H	1:79:A:LEU:HB2	4	0.82
(1,4743)	1:83:A:TRP:H	1:79:A:LEU:HB2	8	0.82
(1,4627)	1:66:A:ILE:HG23	1:114:A:LYS:H	1	0.82
(1,4618)	1:64:A:ILE:HA	1:154:A:LYS:HE3	1	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4616)	1:92:A:GLY:H	1:63:A:MET:HE1	8	0.82
(1,4607)	1:52:A:VAL:HG12	1:46:A:VAL:HA	7	0.82
(1,4564)	1:83:A:TRP:H	1:79:A:LEU:HB2	4	0.82
(1,4564)	1:83:A:TRP:H	1:79:A:LEU:HB2	8	0.82
(1,4448)	1:66:A:ILE:HG23	1:114:A:LYS:H	1	0.82
(1,4439)	1:64:A:ILE:HA	1:154:A:LYS:HE3	1	0.82
(1,4437)	1:92:A:GLY:H	1:63:A:MET:HE1	8	0.82
(1,4428)	1:52:A:VAL:HG12	1:46:A:VAL:HA	7	0.82
(1,4152)	1:137:A:GLU:H	1:89:A:ILE:HD12	3	0.82
(1,4152)	1:137:A:GLU:H	1:89:A:ILE:HD11	6	0.82
(1,3691)	1:92:A:GLY:H	1:131:A:LEU:HD23	2	0.82
(1,3691)	1:92:A:GLY:H	1:131:A:LEU:HD21	8	0.82
(1,3527)	1:75:A:ILE:H	1:74:A:PHE:HE1	1	0.82
(1,2394)	1:155:A:THR:HG21	1:35:A:SER:HB2	6	0.82
(1,2313)	1:152:A:LEU:HD22	1:153:A:CYS:HB2	8	0.82
(1,2294)	1:152:A:LEU:HD11	1:78:A:THR:H	1	0.82
(1,2294)	1:152:A:LEU:HD11	1:78:A:THR:H	2	0.82
(1,1818)	1:125:A:VAL:HA	1:97:A:THR:HG22	3	0.82
(1,1498)	1:97:A:THR:HG22	1:101:A:SER:H	1	0.82
(1,1498)	1:97:A:THR:HG23	1:101:A:SER:H	8	0.82
(1,1494)	1:97:A:THR:HG23	1:124:A:LEU:HD22	10	0.82
(1,1371)	1:91:A:LEU:HD12	1:136:A:GLY:HA2	1	0.82
(1,1013)	1:76:A:LEU:HD13	1:138:A:TRP:HZ2	1	0.82
(1,852)	1:69:A:GLU:HG2	1:73:A:ALA:HB1	10	0.82
(1,568)	1:54:A:ASN:HB2	1:52:A:VAL:HG22	5	0.82
(1,568)	1:54:A:ASN:HB2	1:52:A:VAL:HG21	9	0.82
(1,173)	1:36:A:CYS:HA	1:74:A:PHE:HE1	9	0.82
(1,115)	1:30:A:ILE:HG21	1:81:A:LYS:HE2	6	0.82
(1,9009)	1:142:A:ASN:HD21	1:124:A:LEU:HD22	8	0.81
(1,9009)	1:142:A:ASN:HD21	1:124:A:LEU:HD22	9	0.81
(1,8919)	1:137:A:GLU:H	1:89:A:ILE:HD13	2	0.81
(1,8919)	1:137:A:GLU:H	1:89:A:ILE:HD13	10	0.81
(1,8458)	1:92:A:GLY:H	1:131:A:LEU:HD22	10	0.81
(1,8327)	1:78:A:THR:H	1:76:A:LEU:HD23	10	0.81
(1,7569)	1:145:A:VAL:HG22	1:130:A:PHE:HZ	2	0.81
(1,7228)	1:156:A:ALA:HB3	1:158:A:PRO:HD2	2	0.81
(1,7085)	1:152:A:LEU:HD23	1:152:A:LEU:HA	7	0.81
(1,7080)	1:152:A:LEU:HD21	1:153:A:CYS:HB2	9	0.81
(1,7061)	1:152:A:LEU:HD12	1:78:A:THR:H	3	0.81
(1,7061)	1:152:A:LEU:HD12	1:78:A:THR:H	7	0.81
(1,7061)	1:152:A:LEU:HD13	1:78:A:THR:H	9	0.81
(1,7061)	1:152:A:LEU:HD11	1:78:A:THR:H	10	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6869)	1:127:A:THR:HG22	1:139:A:LYS:HB2	4	0.81
(1,6616)	1:127:A:THR:HG21	1:139:A:LYS:HA	3	0.81
(1,6261)	1:97:A:THR:HG21	1:124:A:LEU:HD23	5	0.81
(1,6261)	1:97:A:THR:HG23	1:124:A:LEU:HD23	9	0.81
(1,6138)	1:91:A:LEU:HD12	1:136:A:GLY:HA2	5	0.81
(1,6067)	1:89:A:ILE:HG21	1:83:A:TRP:HB2	1	0.81
(1,5780)	1:76:A:LEU:HD13	1:138:A:TRP:HZ2	6	0.81
(1,5619)	1:69:A:GLU:HG2	1:73:A:ALA:HB1	3	0.81
(1,5564)	1:66:A:ILE:HG21	1:69:A:GLU:H	8	0.81
(1,5476)	1:64:A:ILE:HD13	1:74:A:PHE:HB3	3	0.81
(1,5335)	1:54:A:ASN:HB2	1:52:A:VAL:HG21	2	0.81
(1,5335)	1:54:A:ASN:HB2	1:52:A:VAL:HG22	3	0.81
(1,5316)	1:52:A:VAL:HG22	1:149:A:GLU:H	4	0.81
(1,5316)	1:52:A:VAL:HG22	1:149:A:GLU:H	8	0.81
(1,4626)	1:66:A:ILE:HG22	1:113:A:ASP:H	1	0.81
(1,4616)	1:93:A:MET:H	1:63:A:MET:HE3	7	0.81
(1,4607)	1:52:A:VAL:HG12	1:46:A:VAL:HA	4	0.81
(1,4604)	1:49:A:ILE:HG22	1:143:A:CYS:HA	2	0.81
(1,4447)	1:66:A:ILE:HG22	1:113:A:ASP:H	1	0.81
(1,4437)	1:93:A:MET:H	1:63:A:MET:HE3	7	0.81
(1,4428)	1:52:A:VAL:HG12	1:46:A:VAL:HA	4	0.81
(1,4425)	1:49:A:ILE:HG22	1:143:A:CYS:HA	2	0.81
(1,4242)	1:142:A:ASN:HD21	1:124:A:LEU:HD22	8	0.81
(1,4242)	1:142:A:ASN:HD21	1:124:A:LEU:HD22	9	0.81
(1,4152)	1:137:A:GLU:H	1:89:A:ILE:HD13	2	0.81
(1,4152)	1:137:A:GLU:H	1:89:A:ILE:HD13	10	0.81
(1,3691)	1:92:A:GLY:H	1:131:A:LEU:HD22	10	0.81
(1,3560)	1:78:A:THR:H	1:76:A:LEU:HD23	10	0.81
(1,2802)	1:145:A:VAL:HG22	1:130:A:PHE:HZ	2	0.81
(1,2461)	1:156:A:ALA:HB3	1:158:A:PRO:HD2	2	0.81
(1,2318)	1:152:A:LEU:HD23	1:152:A:LEU:HA	7	0.81
(1,2313)	1:152:A:LEU:HD21	1:153:A:CYS:HB2	9	0.81
(1,2294)	1:152:A:LEU:HD12	1:78:A:THR:H	3	0.81
(1,2294)	1:152:A:LEU:HD12	1:78:A:THR:H	7	0.81
(1,2294)	1:152:A:LEU:HD13	1:78:A:THR:H	9	0.81
(1,2294)	1:152:A:LEU:HD11	1:78:A:THR:H	10	0.81
(1,2102)	1:127:A:THR:HG22	1:139:A:LYS:HB2	4	0.81
(1,1849)	1:127:A:THR:HG21	1:139:A:LYS:HA	3	0.81
(1,1494)	1:97:A:THR:HG21	1:124:A:LEU:HD23	5	0.81
(1,1494)	1:97:A:THR:HG23	1:124:A:LEU:HD23	9	0.81
(1,1371)	1:91:A:LEU:HD12	1:136:A:GLY:HA2	5	0.81
(1,1300)	1:89:A:ILE:HG21	1:83:A:TRP:HB2	1	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1013)	1:76:A:LEU:HD13	1:138:A:TRP:HZ2	6	0.81
(1,852)	1:69:A:GLU:HG2	1:73:A:ALA:HB1	3	0.81
(1,797)	1:66:A:ILE:HG21	1:69:A:GLU:H	8	0.81
(1,709)	1:64:A:ILE:HD13	1:74:A:PHE:HB3	3	0.81
(1,568)	1:54:A:ASN:HB2	1:52:A:VAL:HG21	2	0.81
(1,568)	1:54:A:ASN:HB2	1:52:A:VAL:HG22	3	0.81
(1,549)	1:52:A:VAL:HG22	1:149:A:GLU:H	4	0.81
(1,549)	1:52:A:VAL:HG22	1:149:A:GLU:H	8	0.81
(1,8919)	1:137:A:GLU:H	1:89:A:ILE:HD11	8	0.8
(1,7311)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	5	0.8
(1,7228)	1:156:A:ALA:HB3	1:158:A:PRO:HD2	3	0.8
(1,7228)	1:156:A:ALA:HB1	1:158:A:PRO:HD2	8	0.8
(1,7092)	1:152:A:LEU:HG	1:78:A:THR:HG23	7	0.8
(1,7061)	1:152:A:LEU:HD13	1:78:A:THR:H	6	0.8
(1,6443)	1:113:A:ASP:HB2	1:91:A:LEU:HD23	7	0.8
(1,6265)	1:97:A:THR:HG23	1:101:A:SER:H	9	0.8
(1,5875)	1:79:A:LEU:HD21	1:89:A:ILE:HG12	7	0.8
(1,5564)	1:66:A:ILE:HG22	1:69:A:GLU:H	7	0.8
(1,5057)	1:42:A:GLU:H	1:40:A:LEU:HD12	4	0.8
(1,4762)	1:138:A:TRP:HE1	1:137:A:GLU:HB2	10	0.8
(1,4717)	1:36:A:CYS:H	1:157:A:ILE:HG13	2	0.8
(1,4643)	1:78:A:THR:HB	1:82:A:GLN:HB3	2	0.8
(1,4618)	1:64:A:ILE:HA	1:154:A:LYS:HE3	2	0.8
(1,4604)	1:49:A:ILE:HG23	1:143:A:CYS:HA	1	0.8
(1,4604)	1:49:A:ILE:HG23	1:143:A:CYS:HA	4	0.8
(1,4598)	1:46:A:VAL:HG22	1:44:A:ILE:HB	1	0.8
(1,4583)	1:138:A:TRP:HE1	1:137:A:GLU:HB2	10	0.8
(1,4538)	1:36:A:CYS:H	1:157:A:ILE:HG13	2	0.8
(1,4464)	1:78:A:THR:HB	1:82:A:GLN:HB3	2	0.8
(1,4439)	1:64:A:ILE:HA	1:154:A:LYS:HE3	2	0.8
(1,4425)	1:49:A:ILE:HG23	1:143:A:CYS:HA	1	0.8
(1,4425)	1:49:A:ILE:HG23	1:143:A:CYS:HA	4	0.8
(1,4419)	1:46:A:VAL:HG22	1:44:A:ILE:HB	1	0.8
(1,4152)	1:137:A:GLU:H	1:89:A:ILE:HD11	8	0.8
(1,2544)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	5	0.8
(1,2461)	1:156:A:ALA:HB3	1:158:A:PRO:HD2	3	0.8
(1,2461)	1:156:A:ALA:HB1	1:158:A:PRO:HD2	8	0.8
(1,2325)	1:152:A:LEU:HG	1:78:A:THR:HG23	7	0.8
(1,2294)	1:152:A:LEU:HD13	1:78:A:THR:H	6	0.8
(1,1676)	1:113:A:ASP:HB2	1:91:A:LEU:HD23	7	0.8
(1,1498)	1:97:A:THR:HG23	1:101:A:SER:H	9	0.8
(1,1108)	1:79:A:LEU:HD21	1:89:A:ILE:HG12	7	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,797)	1:66:A:ILE:HG22	1:69:A:GLU:H	7	0.8
(1,290)	1:42:A:GLU:H	1:40:A:LEU:HD12	4	0.8
(1,9009)	1:142:A:ASN:HD21	1:124:A:LEU:HD23	5	0.79
(1,8458)	1:92:A:GLY:H	1:131:A:LEU:HD21	6	0.79
(1,8327)	1:78:A:THR:H	1:76:A:LEU:HD21	2	0.79
(1,8327)	1:78:A:THR:H	1:76:A:LEU:HD23	3	0.79
(1,8327)	1:78:A:THR:H	1:76:A:LEU:HD23	4	0.79
(1,8327)	1:78:A:THR:H	1:76:A:LEU:HD23	7	0.79
(1,7569)	1:145:A:VAL:HG22	1:130:A:PHE:HZ	1	0.79
(1,7505)	1:63:A:MET:HB2	1:105:A:PHE:HD1	2	0.79
(1,7375)	1:71:A:GLU:HA	1:74:A:PHE:HD1	6	0.79
(1,7171)	1:156:A:ALA:HB1	1:154:A:LYS:HE2	6	0.79
(1,7085)	1:152:A:LEU:HD21	1:152:A:LEU:HA	2	0.79
(1,7061)	1:152:A:LEU:HD13	1:78:A:THR:H	5	0.79
(1,5863)	1:79:A:LEU:HD21	1:83:A:TRP:HB2	1	0.79
(1,5171)	1:46:A:VAL:HG12	1:48:A:SER:HB3	4	0.79
(1,5171)	1:46:A:VAL:HG11	1:48:A:SER:HB3	9	0.79
(1,4882)	1:30:A:ILE:HG21	1:81:A:LYS:HE2	1	0.79
(1,4762)	1:138:A:TRP:HE1	1:137:A:GLU:HB2	3	0.79
(1,4743)	1:83:A:TRP:H	1:79:A:LEU:HB2	10	0.79
(1,4627)	1:66:A:ILE:HG22	1:114:A:LYS:H	5	0.79
(1,4616)	1:93:A:MET:H	1:63:A:MET:HE3	6	0.79
(1,4607)	1:52:A:VAL:HG11	1:46:A:VAL:HA	2	0.79
(1,4607)	1:52:A:VAL:HG13	1:46:A:VAL:HA	6	0.79
(1,4598)	1:46:A:VAL:HG22	1:44:A:ILE:HB	4	0.79
(1,4598)	1:46:A:VAL:HG22	1:44:A:ILE:HB	8	0.79
(1,4583)	1:138:A:TRP:HE1	1:137:A:GLU:HB2	3	0.79
(1,4564)	1:83:A:TRP:H	1:79:A:LEU:HB2	10	0.79
(1,4448)	1:66:A:ILE:HG22	1:114:A:LYS:H	5	0.79
(1,4437)	1:93:A:MET:H	1:63:A:MET:HE3	6	0.79
(1,4428)	1:52:A:VAL:HG11	1:46:A:VAL:HA	2	0.79
(1,4428)	1:52:A:VAL:HG13	1:46:A:VAL:HA	6	0.79
(1,4419)	1:46:A:VAL:HG22	1:44:A:ILE:HB	4	0.79
(1,4419)	1:46:A:VAL:HG22	1:44:A:ILE:HB	8	0.79
(1,4242)	1:142:A:ASN:HD21	1:124:A:LEU:HD23	5	0.79
(1,3691)	1:92:A:GLY:H	1:131:A:LEU:HD21	6	0.79
(1,3560)	1:78:A:THR:H	1:76:A:LEU:HD21	2	0.79
(1,3560)	1:78:A:THR:H	1:76:A:LEU:HD23	3	0.79
(1,3560)	1:78:A:THR:H	1:76:A:LEU:HD23	4	0.79
(1,3560)	1:78:A:THR:H	1:76:A:LEU:HD23	7	0.79
(1,2802)	1:145:A:VAL:HG22	1:130:A:PHE:HZ	1	0.79
(1,2738)	1:63:A:MET:HB2	1:105:A:PHE:HD1	2	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2608)	1:71:A:GLU:HA	1:74:A:PHE:HD1	6	0.79
(1,2404)	1:156:A:ALA:HB1	1:154:A:LYS:HE2	6	0.79
(1,2318)	1:152:A:LEU:HD21	1:152:A:LEU:HA	2	0.79
(1,2294)	1:152:A:LEU:HD13	1:78:A:THR:H	5	0.79
(1,1096)	1:79:A:LEU:HD21	1:83:A:TRP:HB2	1	0.79
(1,404)	1:46:A:VAL:HG12	1:48:A:SER:HB3	4	0.79
(1,404)	1:46:A:VAL:HG11	1:48:A:SER:HB3	9	0.79
(1,115)	1:30:A:ILE:HG21	1:81:A:LYS:HE2	1	0.79
(1,9155)	1:157:A:ILE:H	1:157:A:ILE:HD12	4	0.78
(1,9009)	1:142:A:ASN:HD21	1:124:A:LEU:HD22	4	0.78
(1,8458)	1:92:A:GLY:H	1:131:A:LEU:HD22	1	0.78
(1,8327)	1:78:A:THR:H	1:76:A:LEU:HD21	5	0.78
(1,8327)	1:78:A:THR:H	1:76:A:LEU:HD23	8	0.78
(1,7569)	1:145:A:VAL:HG21	1:130:A:PHE:HZ	5	0.78
(1,7363)	1:67:A:HIS:HD2	1:66:A:ILE:HG22	3	0.78
(1,7311)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	4	0.78
(1,7228)	1:156:A:ALA:HB1	1:158:A:PRO:HD2	9	0.78
(1,6869)	1:127:A:THR:HG23	1:139:A:LYS:HB2	2	0.78
(1,6443)	1:113:A:ASP:HB2	1:91:A:LEU:HD23	2	0.78
(1,6265)	1:97:A:THR:HG22	1:101:A:SER:H	3	0.78
(1,6138)	1:91:A:LEU:HD11	1:136:A:GLY:HA2	4	0.78
(1,6138)	1:91:A:LEU:HD13	1:136:A:GLY:HA2	8	0.78
(1,5863)	1:79:A:LEU:HD22	1:83:A:TRP:HB2	6	0.78
(1,5863)	1:79:A:LEU:HD21	1:83:A:TRP:HB2	10	0.78
(1,5780)	1:76:A:LEU:HD12	1:138:A:TRP:HZ2	2	0.78
(1,5780)	1:76:A:LEU:HD13	1:138:A:TRP:HZ2	10	0.78
(1,5736)	1:75:A:ILE:HG22	1:78:A:THR:HG22	9	0.78
(1,5619)	1:69:A:GLU:HG2	1:73:A:ALA:HB2	2	0.78
(1,5564)	1:66:A:ILE:HG22	1:69:A:GLU:H	6	0.78
(1,5564)	1:66:A:ILE:HG22	1:69:A:GLU:H	9	0.78
(1,5476)	1:64:A:ILE:HD12	1:74:A:PHE:HB3	1	0.78
(1,5476)	1:64:A:ILE:HD12	1:74:A:PHE:HB3	6	0.78
(1,5476)	1:64:A:ILE:HD12	1:74:A:PHE:HB3	7	0.78
(1,5335)	1:54:A:ASN:HB2	1:52:A:VAL:HG23	6	0.78
(1,5252)	1:49:A:ILE:HG22	1:53:A:ARG:HD3	10	0.78
(1,5171)	1:46:A:VAL:HG11	1:48:A:SER:HB3	3	0.78
(1,5171)	1:46:A:VAL:HG13	1:48:A:SER:HB3	8	0.78
(1,5057)	1:42:A:GLU:H	1:40:A:LEU:HD13	2	0.78
(1,5057)	1:42:A:GLU:H	1:40:A:LEU:HD12	8	0.78
(1,5057)	1:42:A:GLU:H	1:40:A:LEU:HD11	9	0.78
(1,4762)	1:138:A:TRP:HE1	1:137:A:GLU:HB2	5	0.78
(1,4743)	1:83:A:TRP:H	1:79:A:LEU:HB2	7	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4743)	1:83:A:TRP:H	1:79:A:LEU:HB2	9	0.78
(1,4627)	1:66:A:ILE:HG23	1:114:A:LYS:H	2	0.78
(1,4627)	1:66:A:ILE:HG23	1:114:A:LYS:H	8	0.78
(1,4627)	1:66:A:ILE:HG21	1:114:A:LYS:H	10	0.78
(1,4618)	1:64:A:ILE:HA	1:154:A:LYS:HE3	5	0.78
(1,4616)	1:93:A:MET:H	1:63:A:MET:HE2	4	0.78
(1,4607)	1:52:A:VAL:HG13	1:46:A:VAL:HA	9	0.78
(1,4603)	1:49:A:ILE:HG22	1:48:A:SER:H	8	0.78
(1,4583)	1:138:A:TRP:HE1	1:137:A:GLU:HB2	5	0.78
(1,4564)	1:83:A:TRP:H	1:79:A:LEU:HB2	7	0.78
(1,4564)	1:83:A:TRP:H	1:79:A:LEU:HB2	9	0.78
(1,4448)	1:66:A:ILE:HG23	1:114:A:LYS:H	2	0.78
(1,4448)	1:66:A:ILE:HG23	1:114:A:LYS:H	8	0.78
(1,4448)	1:66:A:ILE:HG21	1:114:A:LYS:H	10	0.78
(1,4439)	1:64:A:ILE:HA	1:154:A:LYS:HE3	5	0.78
(1,4437)	1:93:A:MET:H	1:63:A:MET:HE2	4	0.78
(1,4428)	1:52:A:VAL:HG13	1:46:A:VAL:HA	9	0.78
(1,4424)	1:49:A:ILE:HG22	1:48:A:SER:H	8	0.78
(1,4388)	1:157:A:ILE:H	1:157:A:ILE:HD12	4	0.78
(1,4242)	1:142:A:ASN:HD21	1:124:A:LEU:HD22	4	0.78
(1,3691)	1:92:A:GLY:H	1:131:A:LEU:HD22	1	0.78
(1,3560)	1:78:A:THR:H	1:76:A:LEU:HD21	5	0.78
(1,3560)	1:78:A:THR:H	1:76:A:LEU:HD23	8	0.78
(1,2802)	1:145:A:VAL:HG21	1:130:A:PHE:HZ	5	0.78
(1,2596)	1:67:A:HIS:HD2	1:66:A:ILE:HG22	3	0.78
(1,2544)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	4	0.78
(1,2461)	1:156:A:ALA:HB1	1:158:A:PRO:HD2	9	0.78
(1,2102)	1:127:A:THR:HG23	1:139:A:LYS:HB2	2	0.78
(1,1676)	1:113:A:ASP:HB2	1:91:A:LEU:HD23	2	0.78
(1,1498)	1:97:A:THR:HG22	1:101:A:SER:H	3	0.78
(1,1371)	1:91:A:LEU:HD11	1:136:A:GLY:HA2	4	0.78
(1,1371)	1:91:A:LEU:HD13	1:136:A:GLY:HA2	8	0.78
(1,1096)	1:79:A:LEU:HD22	1:83:A:TRP:HB2	6	0.78
(1,1096)	1:79:A:LEU:HD21	1:83:A:TRP:HB2	10	0.78
(1,1013)	1:76:A:LEU:HD12	1:138:A:TRP:HZ2	2	0.78
(1,1013)	1:76:A:LEU:HD13	1:138:A:TRP:HZ2	10	0.78
(1,969)	1:75:A:ILE:HG22	1:78:A:THR:HG22	9	0.78
(1,852)	1:69:A:GLU:HG2	1:73:A:ALA:HB2	2	0.78
(1,797)	1:66:A:ILE:HG22	1:69:A:GLU:H	6	0.78
(1,797)	1:66:A:ILE:HG22	1:69:A:GLU:H	9	0.78
(1,709)	1:64:A:ILE:HD12	1:74:A:PHE:HB3	1	0.78
(1,709)	1:64:A:ILE:HD12	1:74:A:PHE:HB3	6	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,709)	1:64:A:ILE:HD12	1:74:A:PHE:HB3	7	0.78
(1,568)	1:54:A:ASN:HB2	1:52:A:VAL:HG23	6	0.78
(1,485)	1:49:A:ILE:HG22	1:53:A:ARG:HD3	10	0.78
(1,404)	1:46:A:VAL:HG11	1:48:A:SER:HB3	3	0.78
(1,404)	1:46:A:VAL:HG13	1:48:A:SER:HB3	8	0.78
(1,290)	1:42:A:GLU:H	1:40:A:LEU:HD13	2	0.78
(1,290)	1:42:A:GLU:H	1:40:A:LEU:HD12	8	0.78
(1,290)	1:42:A:GLU:H	1:40:A:LEU:HD11	9	0.78
(1,9009)	1:142:A:ASN:HD21	1:124:A:LEU:HD22	6	0.77
(1,9009)	1:142:A:ASN:HD21	1:124:A:LEU:HD22	7	0.77
(1,8892)	1:135:A:THR:H	1:133:A:ILE:HD12	1	0.77
(1,8864)	1:132:A:HIS:H	1:131:A:LEU:HD22	8	0.77
(1,7569)	1:145:A:VAL:HG22	1:130:A:PHE:HZ	3	0.77
(1,7505)	1:63:A:MET:HB2	1:105:A:PHE:HD1	4	0.77
(1,7228)	1:156:A:ALA:HB2	1:158:A:PRO:HD2	4	0.77
(1,7228)	1:156:A:ALA:HB3	1:158:A:PRO:HD2	6	0.77
(1,7092)	1:152:A:LEU:HG	1:78:A:THR:HG22	3	0.77
(1,7092)	1:152:A:LEU:HG	1:78:A:THR:HG23	5	0.77
(1,7085)	1:152:A:LEU:HD22	1:152:A:LEU:HA	1	0.77
(1,7085)	1:152:A:LEU:HD22	1:152:A:LEU:HA	4	0.77
(1,7085)	1:152:A:LEU:HD23	1:152:A:LEU:HA	5	0.77
(1,7080)	1:152:A:LEU:HD21	1:153:A:CYS:HB2	1	0.77
(1,7080)	1:152:A:LEU:HD22	1:153:A:CYS:HB2	3	0.77
(1,7080)	1:152:A:LEU:HD22	1:153:A:CYS:HB2	10	0.77
(1,5780)	1:76:A:LEU:HD11	1:138:A:TRP:HZ2	5	0.77
(1,5619)	1:69:A:GLU:HG2	1:73:A:ALA:HB2	5	0.77
(1,5564)	1:66:A:ILE:HG22	1:69:A:GLU:H	3	0.77
(1,5564)	1:66:A:ILE:HG23	1:69:A:GLU:H	4	0.77
(1,5237)	1:49:A:ILE:H	1:49:A:ILE:HD11	7	0.77
(1,5057)	1:42:A:GLU:H	1:40:A:LEU:HD13	5	0.77
(1,5057)	1:42:A:GLU:H	1:40:A:LEU:HD12	7	0.77
(1,5057)	1:42:A:GLU:H	1:40:A:LEU:HD11	10	0.77
(1,4940)	1:36:A:CYS:HA	1:74:A:PHE:HE1	1	0.77
(1,4762)	1:138:A:TRP:HE1	1:137:A:GLU:HB2	2	0.77
(1,4762)	1:138:A:TRP:HE1	1:137:A:GLU:HB2	4	0.77
(1,4717)	1:36:A:CYS:H	1:157:A:ILE:HG13	4	0.77
(1,4643)	1:78:A:THR:HB	1:82:A:GLN:HB3	1	0.77
(1,4618)	1:64:A:ILE:HA	1:154:A:LYS:HE3	7	0.77
(1,4616)	1:93:A:MET:H	1:63:A:MET:HE3	10	0.77
(1,4607)	1:52:A:VAL:HG13	1:46:A:VAL:HA	10	0.77
(1,4598)	1:46:A:VAL:HG21	1:44:A:ILE:HB	2	0.77
(1,4583)	1:138:A:TRP:HE1	1:137:A:GLU:HB2	2	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4583)	1:138:A:TRP:HE1	1:137:A:GLU:HB2	4	0.77
(1,4538)	1:36:A:CYS:H	1:157:A:ILE:HG13	4	0.77
(1,4464)	1:78:A:THR:HB	1:82:A:GLN:HB3	1	0.77
(1,4439)	1:64:A:ILE:HA	1:154:A:LYS:HE3	7	0.77
(1,4437)	1:93:A:MET:H	1:63:A:MET:HE3	10	0.77
(1,4428)	1:52:A:VAL:HG13	1:46:A:VAL:HA	10	0.77
(1,4419)	1:46:A:VAL:HG21	1:44:A:ILE:HB	2	0.77
(1,4242)	1:142:A:ASN:HD21	1:124:A:LEU:HD22	6	0.77
(1,4242)	1:142:A:ASN:HD21	1:124:A:LEU:HD22	7	0.77
(1,4125)	1:135:A:THR:H	1:133:A:ILE:HD12	1	0.77
(1,4097)	1:132:A:HIS:H	1:131:A:LEU:HD22	8	0.77
(1,2802)	1:145:A:VAL:HG22	1:130:A:PHE:HZ	3	0.77
(1,2738)	1:63:A:MET:HB2	1:105:A:PHE:HD1	4	0.77
(1,2461)	1:156:A:ALA:HB2	1:158:A:PRO:HD2	4	0.77
(1,2461)	1:156:A:ALA:HB3	1:158:A:PRO:HD2	6	0.77
(1,2325)	1:152:A:LEU:HG	1:78:A:THR:HG22	3	0.77
(1,2325)	1:152:A:LEU:HG	1:78:A:THR:HG23	5	0.77
(1,2318)	1:152:A:LEU:HD22	1:152:A:LEU:HA	1	0.77
(1,2318)	1:152:A:LEU:HD22	1:152:A:LEU:HA	4	0.77
(1,2318)	1:152:A:LEU:HD23	1:152:A:LEU:HA	5	0.77
(1,2313)	1:152:A:LEU:HD21	1:153:A:CYS:HB2	1	0.77
(1,2313)	1:152:A:LEU:HD22	1:153:A:CYS:HB2	3	0.77
(1,2313)	1:152:A:LEU:HD22	1:153:A:CYS:HB2	10	0.77
(1,1013)	1:76:A:LEU:HD11	1:138:A:TRP:HZ2	5	0.77
(1,852)	1:69:A:GLU:HG2	1:73:A:ALA:HB2	5	0.77
(1,797)	1:66:A:ILE:HG22	1:69:A:GLU:H	3	0.77
(1,797)	1:66:A:ILE:HG23	1:69:A:GLU:H	4	0.77
(1,470)	1:49:A:ILE:H	1:49:A:ILE:HD11	7	0.77
(1,290)	1:42:A:GLU:H	1:40:A:LEU:HD13	5	0.77
(1,290)	1:42:A:GLU:H	1:40:A:LEU:HD12	7	0.77
(1,290)	1:42:A:GLU:H	1:40:A:LEU:HD11	10	0.77
(1,173)	1:36:A:CYS:HA	1:74:A:PHE:HE1	1	0.77
(1,9155)	1:157:A:ILE:H	1:157:A:ILE:HD13	2	0.76
(1,9009)	1:142:A:ASN:HD21	1:124:A:LEU:HD21	1	0.76
(1,9009)	1:142:A:ASN:HD21	1:124:A:LEU:HD23	2	0.76
(1,8892)	1:135:A:THR:H	1:133:A:ILE:HD12	3	0.76
(1,8892)	1:135:A:THR:H	1:133:A:ILE:HD11	4	0.76
(1,7311)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	10	0.76
(1,7295)	1:38:A:ILE:HD11	1:29:A:TRP:HZ3	2	0.76
(1,7295)	1:38:A:ILE:HD11	1:29:A:TRP:HZ3	10	0.76
(1,7171)	1:156:A:ALA:HB1	1:154:A:LYS:HE2	10	0.76
(1,6399)	1:110:A:MET:HE2	1:104:A:TRP:HB2	9	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6261)	1:97:A:THR:HG22	1:124:A:LEU:HD21	3	0.76
(1,5875)	1:79:A:LEU:HD21	1:89:A:ILE:HG12	8	0.76
(1,5863)	1:79:A:LEU:HD21	1:83:A:TRP:HB2	5	0.76
(1,5863)	1:79:A:LEU:HD22	1:83:A:TRP:HB2	8	0.76
(1,5863)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	9	0.76
(1,5780)	1:76:A:LEU:HD11	1:138:A:TRP:HZ2	3	0.76
(1,5780)	1:76:A:LEU:HD12	1:138:A:TRP:HZ2	7	0.76
(1,5780)	1:76:A:LEU:HD11	1:138:A:TRP:HZ2	8	0.76
(1,5780)	1:76:A:LEU:HD11	1:138:A:TRP:HZ2	9	0.76
(1,5736)	1:75:A:ILE:HG23	1:78:A:THR:HG23	10	0.76
(1,5564)	1:66:A:ILE:HG22	1:69:A:GLU:H	2	0.76
(1,5564)	1:66:A:ILE:HG21	1:69:A:GLU:H	5	0.76
(1,5316)	1:52:A:VAL:HG21	1:149:A:GLU:H	3	0.76
(1,5316)	1:52:A:VAL:HG23	1:149:A:GLU:H	10	0.76
(1,5252)	1:49:A:ILE:HG23	1:53:A:ARG:HD3	6	0.76
(1,5237)	1:49:A:ILE:H	1:49:A:ILE:HD13	3	0.76
(1,5237)	1:49:A:ILE:H	1:49:A:ILE:HD13	6	0.76
(1,5237)	1:49:A:ILE:H	1:49:A:ILE:HD11	8	0.76
(1,5171)	1:46:A:VAL:HG12	1:48:A:SER:HB3	5	0.76
(1,5057)	1:42:A:GLU:H	1:40:A:LEU:HD11	1	0.76
(1,5057)	1:42:A:GLU:H	1:40:A:LEU:HD11	6	0.76
(1,4882)	1:30:A:ILE:HG21	1:81:A:LYS:HE2	2	0.76
(1,4627)	1:66:A:ILE:HG21	1:114:A:LYS:H	4	0.76
(1,4618)	1:64:A:ILE:HA	1:154:A:LYS:HE3	10	0.76
(1,4607)	1:52:A:VAL:HG13	1:46:A:VAL:HA	5	0.76
(1,4607)	1:52:A:VAL:HG11	1:46:A:VAL:HA	8	0.76
(1,4604)	1:49:A:ILE:HG21	1:143:A:CYS:HA	6	0.76
(1,4598)	1:46:A:VAL:HG22	1:44:A:ILE:HB	3	0.76
(1,4598)	1:46:A:VAL:HG22	1:44:A:ILE:HB	7	0.76
(1,4448)	1:66:A:ILE:HG21	1:114:A:LYS:H	4	0.76
(1,4439)	1:64:A:ILE:HA	1:154:A:LYS:HE3	10	0.76
(1,4428)	1:52:A:VAL:HG13	1:46:A:VAL:HA	5	0.76
(1,4428)	1:52:A:VAL:HG11	1:46:A:VAL:HA	8	0.76
(1,4425)	1:49:A:ILE:HG21	1:143:A:CYS:HA	6	0.76
(1,4419)	1:46:A:VAL:HG22	1:44:A:ILE:HB	3	0.76
(1,4419)	1:46:A:VAL:HG22	1:44:A:ILE:HB	7	0.76
(1,4388)	1:157:A:ILE:H	1:157:A:ILE:HD13	2	0.76
(1,4242)	1:142:A:ASN:HD21	1:124:A:LEU:HD21	1	0.76
(1,4242)	1:142:A:ASN:HD21	1:124:A:LEU:HD23	2	0.76
(1,4125)	1:135:A:THR:H	1:133:A:ILE:HD12	3	0.76
(1,4125)	1:135:A:THR:H	1:133:A:ILE:HD11	4	0.76
(1,2544)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	10	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2528)	1:38:A:ILE:HD11	1:29:A:TRP:HZ3	2	0.76
(1,2528)	1:38:A:ILE:HD11	1:29:A:TRP:HZ3	10	0.76
(1,2404)	1:156:A:ALA:HB1	1:154:A:LYS:HE2	10	0.76
(1,1632)	1:110:A:MET:HE2	1:104:A:TRP:HB2	9	0.76
(1,1494)	1:97:A:THR:HG22	1:124:A:LEU:HD21	3	0.76
(1,1108)	1:79:A:LEU:HD21	1:89:A:ILE:HG12	8	0.76
(1,1096)	1:79:A:LEU:HD21	1:83:A:TRP:HB2	5	0.76
(1,1096)	1:79:A:LEU:HD22	1:83:A:TRP:HB2	8	0.76
(1,1096)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	9	0.76
(1,1013)	1:76:A:LEU:HD11	1:138:A:TRP:HZ2	3	0.76
(1,1013)	1:76:A:LEU:HD12	1:138:A:TRP:HZ2	7	0.76
(1,1013)	1:76:A:LEU:HD11	1:138:A:TRP:HZ2	8	0.76
(1,1013)	1:76:A:LEU:HD11	1:138:A:TRP:HZ2	9	0.76
(1,969)	1:75:A:ILE:HG23	1:78:A:THR:HG23	10	0.76
(1,797)	1:66:A:ILE:HG22	1:69:A:GLU:H	2	0.76
(1,797)	1:66:A:ILE:HG21	1:69:A:GLU:H	5	0.76
(1,549)	1:52:A:VAL:HG21	1:149:A:GLU:H	3	0.76
(1,549)	1:52:A:VAL:HG23	1:149:A:GLU:H	10	0.76
(1,485)	1:49:A:ILE:HG23	1:53:A:ARG:HD3	6	0.76
(1,470)	1:49:A:ILE:H	1:49:A:ILE:HD13	3	0.76
(1,470)	1:49:A:ILE:H	1:49:A:ILE:HD13	6	0.76
(1,470)	1:49:A:ILE:H	1:49:A:ILE:HD11	8	0.76
(1,404)	1:46:A:VAL:HG12	1:48:A:SER:HB3	5	0.76
(1,290)	1:42:A:GLU:H	1:40:A:LEU:HD11	1	0.76
(1,290)	1:42:A:GLU:H	1:40:A:LEU:HD11	6	0.76
(1,115)	1:30:A:ILE:HG21	1:81:A:LYS:HE2	2	0.76
(1,8864)	1:132:A:HIS:H	1:131:A:LEU:HD21	2	0.75
(1,8864)	1:132:A:HIS:H	1:131:A:LEU:HD22	5	0.75
(1,7085)	1:152:A:LEU:HD22	1:152:A:LEU:HA	8	0.75
(1,7085)	1:152:A:LEU:HD22	1:152:A:LEU:HA	10	0.75
(1,7080)	1:152:A:LEU:HD22	1:153:A:CYS:HB2	5	0.75
(1,7080)	1:152:A:LEU:HD22	1:153:A:CYS:HB2	6	0.75
(1,6773)	1:133:A:ILE:HG21	1:88:A:ASP:HA	1	0.75
(1,6773)	1:133:A:ILE:HG22	1:88:A:ASP:HA	4	0.75
(1,6773)	1:133:A:ILE:HG21	1:88:A:ASP:HA	5	0.75
(1,6618)	1:127:A:THR:HG23	1:125:A:VAL:HA	8	0.75
(1,6585)	1:125:A:VAL:HA	1:97:A:THR:HG22	1	0.75
(1,6443)	1:113:A:ASP:HB2	1:91:A:LEU:HD22	6	0.75
(1,6443)	1:113:A:ASP:HB2	1:91:A:LEU:HD23	10	0.75
(1,6265)	1:97:A:THR:HG23	1:101:A:SER:H	4	0.75
(1,6261)	1:97:A:THR:HG22	1:124:A:LEU:HD23	7	0.75
(1,5875)	1:79:A:LEU:HD22	1:89:A:ILE:HG12	2	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5875)	1:79:A:LEU:HD22	1:89:A:ILE:HG12	4	0.75
(1,5863)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	2	0.75
(1,5863)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	3	0.75
(1,5863)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	4	0.75
(1,5746)	1:75:A:ILE:H	1:75:A:ILE:HG21	4	0.75
(1,5746)	1:75:A:ILE:H	1:75:A:ILE:HG22	7	0.75
(1,5746)	1:75:A:ILE:H	1:75:A:ILE:HG21	8	0.75
(1,5619)	1:69:A:GLU:HG2	1:73:A:ALA:HB1	1	0.75
(1,5619)	1:69:A:GLU:HG2	1:73:A:ALA:HB2	6	0.75
(1,5476)	1:64:A:ILE:HD11	1:74:A:PHE:HB3	4	0.75
(1,5252)	1:49:A:ILE:HG22	1:53:A:ARG:HD3	3	0.75
(1,5252)	1:49:A:ILE:HG21	1:53:A:ARG:HD3	8	0.75
(1,5237)	1:49:A:ILE:H	1:49:A:ILE:HD13	4	0.75
(1,5057)	1:42:A:GLU:H	1:40:A:LEU:HD12	3	0.75
(1,4762)	1:138:A:TRP:HE1	1:137:A:GLU:HB2	7	0.75
(1,4743)	1:83:A:TRP:H	1:79:A:LEU:HB2	1	0.75
(1,4743)	1:83:A:TRP:H	1:79:A:LEU:HB2	3	0.75
(1,4743)	1:83:A:TRP:H	1:79:A:LEU:HB2	6	0.75
(1,4643)	1:78:A:THR:HB	1:82:A:GLN:HB3	6	0.75
(1,4637)	1:75:A:ILE:HG21	1:152:A:LEU:HB3	2	0.75
(1,4616)	1:93:A:MET:H	1:63:A:MET:HE3	3	0.75
(1,4607)	1:52:A:VAL:HG13	1:46:A:VAL:HA	1	0.75
(1,4583)	1:138:A:TRP:HE1	1:137:A:GLU:HB2	7	0.75
(1,4564)	1:83:A:TRP:H	1:79:A:LEU:HB2	1	0.75
(1,4564)	1:83:A:TRP:H	1:79:A:LEU:HB2	3	0.75
(1,4564)	1:83:A:TRP:H	1:79:A:LEU:HB2	6	0.75
(1,4464)	1:78:A:THR:HB	1:82:A:GLN:HB3	6	0.75
(1,4458)	1:75:A:ILE:HG21	1:152:A:LEU:HB3	2	0.75
(1,4437)	1:93:A:MET:H	1:63:A:MET:HE3	3	0.75
(1,4428)	1:52:A:VAL:HG13	1:46:A:VAL:HA	1	0.75
(1,4097)	1:132:A:HIS:H	1:131:A:LEU:HD21	2	0.75
(1,4097)	1:132:A:HIS:H	1:131:A:LEU:HD22	5	0.75
(1,2318)	1:152:A:LEU:HD22	1:152:A:LEU:HA	8	0.75
(1,2318)	1:152:A:LEU:HD22	1:152:A:LEU:HA	10	0.75
(1,2313)	1:152:A:LEU:HD22	1:153:A:CYS:HB2	5	0.75
(1,2313)	1:152:A:LEU:HD22	1:153:A:CYS:HB2	6	0.75
(1,2006)	1:133:A:ILE:HG21	1:88:A:ASP:HA	1	0.75
(1,2006)	1:133:A:ILE:HG22	1:88:A:ASP:HA	4	0.75
(1,2006)	1:133:A:ILE:HG21	1:88:A:ASP:HA	5	0.75
(1,1851)	1:127:A:THR:HG23	1:125:A:VAL:HA	8	0.75
(1,1818)	1:125:A:VAL:HA	1:97:A:THR:HG22	1	0.75
(1,1676)	1:113:A:ASP:HB2	1:91:A:LEU:HD22	6	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1676)	1:113:A:ASP:HB2	1:91:A:LEU:HD23	10	0.75
(1,1498)	1:97:A:THR:HG23	1:101:A:SER:H	4	0.75
(1,1494)	1:97:A:THR:HG22	1:124:A:LEU:HD23	7	0.75
(1,1108)	1:79:A:LEU:HD22	1:89:A:ILE:HG12	2	0.75
(1,1108)	1:79:A:LEU:HD22	1:89:A:ILE:HG12	4	0.75
(1,1096)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	2	0.75
(1,1096)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	3	0.75
(1,1096)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	4	0.75
(1,979)	1:75:A:ILE:H	1:75:A:ILE:HG21	4	0.75
(1,979)	1:75:A:ILE:H	1:75:A:ILE:HG22	7	0.75
(1,979)	1:75:A:ILE:H	1:75:A:ILE:HG21	8	0.75
(1,852)	1:69:A:GLU:HG2	1:73:A:ALA:HB1	1	0.75
(1,852)	1:69:A:GLU:HG2	1:73:A:ALA:HB2	6	0.75
(1,709)	1:64:A:ILE:HD11	1:74:A:PHE:HB3	4	0.75
(1,485)	1:49:A:ILE:HG22	1:53:A:ARG:HD3	3	0.75
(1,485)	1:49:A:ILE:HG21	1:53:A:ARG:HD3	8	0.75
(1,470)	1:49:A:ILE:H	1:49:A:ILE:HD13	4	0.75
(1,290)	1:42:A:GLU:H	1:40:A:LEU:HD12	3	0.75
(1,8919)	1:137:A:GLU:H	1:89:A:ILE:HD13	1	0.74
(1,8864)	1:132:A:HIS:H	1:131:A:LEU:HD21	3	0.74
(1,8864)	1:132:A:HIS:H	1:131:A:LEU:HD22	6	0.74
(1,7228)	1:156:A:ALA:HB2	1:158:A:PRO:HD2	1	0.74
(1,7228)	1:156:A:ALA:HB3	1:158:A:PRO:HD2	5	0.74
(1,7085)	1:152:A:LEU:HD22	1:152:A:LEU:HA	6	0.74
(1,7085)	1:152:A:LEU:HD22	1:152:A:LEU:HA	9	0.74
(1,6720)	1:131:A:LEU:HD22	1:138:A:TRP:HA	1	0.74
(1,6399)	1:110:A:MET:HE3	1:104:A:TRP:HB2	5	0.74
(1,6265)	1:97:A:THR:HG21	1:101:A:SER:H	5	0.74
(1,5746)	1:75:A:ILE:H	1:75:A:ILE:HG21	3	0.74
(1,5746)	1:75:A:ILE:H	1:75:A:ILE:HG23	9	0.74
(1,5564)	1:66:A:ILE:HG23	1:69:A:GLU:H	10	0.74
(1,5476)	1:64:A:ILE:HD12	1:74:A:PHE:HB3	2	0.74
(1,5476)	1:64:A:ILE:HD11	1:74:A:PHE:HB3	8	0.74
(1,5316)	1:52:A:VAL:HG23	1:149:A:GLU:H	1	0.74
(1,5316)	1:52:A:VAL:HG23	1:149:A:GLU:H	9	0.74
(1,5252)	1:49:A:ILE:HG22	1:53:A:ARG:HD3	1	0.74
(1,5252)	1:49:A:ILE:HG23	1:53:A:ARG:HD3	7	0.74
(1,5237)	1:49:A:ILE:H	1:49:A:ILE:HD12	10	0.74
(1,5171)	1:46:A:VAL:HG11	1:48:A:SER:HB3	2	0.74
(1,5171)	1:46:A:VAL:HG12	1:48:A:SER:HB3	10	0.74
(1,4766)	1:152:A:LEU:H	1:152:A:LEU:HD13	7	0.74
(1,4762)	1:138:A:TRP:HE1	1:137:A:GLU:HB2	8	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4743)	1:83:A:TRP:H	1:79:A:LEU:HB2	5	0.74
(1,4646)	1:79:A:LEU:HD11	1:89:A:ILE:HA	3	0.74
(1,4646)	1:79:A:LEU:HD13	1:89:A:ILE:HA	8	0.74
(1,4604)	1:49:A:ILE:HG22	1:143:A:CYS:HA	8	0.74
(1,4598)	1:46:A:VAL:HG22	1:44:A:ILE:HB	5	0.74
(1,4587)	1:152:A:LEU:H	1:152:A:LEU:HD13	7	0.74
(1,4583)	1:138:A:TRP:HE1	1:137:A:GLU:HB2	8	0.74
(1,4564)	1:83:A:TRP:H	1:79:A:LEU:HB2	5	0.74
(1,4467)	1:79:A:LEU:HD11	1:89:A:ILE:HA	3	0.74
(1,4467)	1:79:A:LEU:HD13	1:89:A:ILE:HA	8	0.74
(1,4425)	1:49:A:ILE:HG22	1:143:A:CYS:HA	8	0.74
(1,4419)	1:46:A:VAL:HG22	1:44:A:ILE:HB	5	0.74
(1,4152)	1:137:A:GLU:H	1:89:A:ILE:HD13	1	0.74
(1,4097)	1:132:A:HIS:H	1:131:A:LEU:HD21	3	0.74
(1,4097)	1:132:A:HIS:H	1:131:A:LEU:HD22	6	0.74
(1,2461)	1:156:A:ALA:HB2	1:158:A:PRO:HD2	1	0.74
(1,2461)	1:156:A:ALA:HB3	1:158:A:PRO:HD2	5	0.74
(1,2318)	1:152:A:LEU:HD22	1:152:A:LEU:HA	6	0.74
(1,2318)	1:152:A:LEU:HD22	1:152:A:LEU:HA	9	0.74
(1,1953)	1:131:A:LEU:HD22	1:138:A:TRP:HA	1	0.74
(1,1632)	1:110:A:MET:HE3	1:104:A:TRP:HB2	5	0.74
(1,1498)	1:97:A:THR:HG21	1:101:A:SER:H	5	0.74
(1,979)	1:75:A:ILE:H	1:75:A:ILE:HG21	3	0.74
(1,979)	1:75:A:ILE:H	1:75:A:ILE:HG23	9	0.74
(1,797)	1:66:A:ILE:HG23	1:69:A:GLU:H	10	0.74
(1,709)	1:64:A:ILE:HD12	1:74:A:PHE:HB3	2	0.74
(1,709)	1:64:A:ILE:HD11	1:74:A:PHE:HB3	8	0.74
(1,549)	1:52:A:VAL:HG23	1:149:A:GLU:H	1	0.74
(1,549)	1:52:A:VAL:HG23	1:149:A:GLU:H	9	0.74
(1,485)	1:49:A:ILE:HG22	1:53:A:ARG:HD3	1	0.74
(1,485)	1:49:A:ILE:HG23	1:53:A:ARG:HD3	7	0.74
(1,470)	1:49:A:ILE:H	1:49:A:ILE:HD12	10	0.74
(1,404)	1:46:A:VAL:HG11	1:48:A:SER:HB3	2	0.74
(1,404)	1:46:A:VAL:HG12	1:48:A:SER:HB3	10	0.74
(1,9009)	1:142:A:ASN:HD21	1:124:A:LEU:HD21	3	0.73
(1,8864)	1:132:A:HIS:H	1:131:A:LEU:HD21	7	0.73
(1,7372)	1:74:A:PHE:HD1	1:75:A:ILE:HA	10	0.73
(1,7311)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	1	0.73
(1,7311)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	7	0.73
(1,7295)	1:38:A:ILE:HD13	1:29:A:TRP:HZ3	4	0.73
(1,7295)	1:38:A:ILE:HD12	1:29:A:TRP:HZ3	6	0.73
(1,7295)	1:38:A:ILE:HD13	1:29:A:TRP:HZ3	9	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6869)	1:127:A:THR:HG22	1:139:A:LYS:HB2	7	0.73
(1,6773)	1:133:A:ILE:HG23	1:88:A:ASP:HA	2	0.73
(1,6773)	1:133:A:ILE:HG23	1:88:A:ASP:HA	3	0.73
(1,6618)	1:127:A:THR:HG23	1:125:A:VAL:HA	1	0.73
(1,6616)	1:127:A:THR:HG21	1:139:A:LYS:HA	1	0.73
(1,6616)	1:127:A:THR:HG21	1:139:A:LYS:HA	9	0.73
(1,6566)	1:124:A:LEU:HD11	1:120:A:ASP:HB3	7	0.73
(1,5780)	1:76:A:LEU:HD12	1:138:A:TRP:HZ2	4	0.73
(1,5619)	1:69:A:GLU:HG2	1:73:A:ALA:HB3	9	0.73
(1,5252)	1:49:A:ILE:HG21	1:53:A:ARG:HD3	9	0.73
(1,5237)	1:49:A:ILE:H	1:49:A:ILE:HD12	1	0.73
(1,5237)	1:49:A:ILE:H	1:49:A:ILE:HD13	5	0.73
(1,5237)	1:49:A:ILE:H	1:49:A:ILE:HD12	9	0.73
(1,5171)	1:46:A:VAL:HG13	1:48:A:SER:HB3	1	0.73
(1,4766)	1:152:A:LEU:H	1:152:A:LEU:HD22	1	0.73
(1,4766)	1:152:A:LEU:H	1:152:A:LEU:HD11	6	0.73
(1,4766)	1:152:A:LEU:H	1:152:A:LEU:HD12	8	0.73
(1,4766)	1:152:A:LEU:H	1:152:A:LEU:HD12	10	0.73
(1,4762)	1:138:A:TRP:HE1	1:137:A:GLU:HG2	9	0.73
(1,4743)	1:83:A:TRP:H	1:79:A:LEU:HB2	2	0.73
(1,4587)	1:152:A:LEU:H	1:152:A:LEU:HD22	1	0.73
(1,4587)	1:152:A:LEU:H	1:152:A:LEU:HD11	6	0.73
(1,4587)	1:152:A:LEU:H	1:152:A:LEU:HD12	8	0.73
(1,4587)	1:152:A:LEU:H	1:152:A:LEU:HD12	10	0.73
(1,4583)	1:138:A:TRP:HE1	1:137:A:GLU:HG2	9	0.73
(1,4564)	1:83:A:TRP:H	1:79:A:LEU:HB2	2	0.73
(1,4242)	1:142:A:ASN:HD21	1:124:A:LEU:HD21	3	0.73
(1,4097)	1:132:A:HIS:H	1:131:A:LEU:HD21	7	0.73
(1,2605)	1:74:A:PHE:HD1	1:75:A:ILE:HA	10	0.73
(1,2544)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	1	0.73
(1,2544)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	7	0.73
(1,2528)	1:38:A:ILE:HD13	1:29:A:TRP:HZ3	4	0.73
(1,2528)	1:38:A:ILE:HD12	1:29:A:TRP:HZ3	6	0.73
(1,2528)	1:38:A:ILE:HD13	1:29:A:TRP:HZ3	9	0.73
(1,2102)	1:127:A:THR:HG22	1:139:A:LYS:HB2	7	0.73
(1,2006)	1:133:A:ILE:HG23	1:88:A:ASP:HA	2	0.73
(1,2006)	1:133:A:ILE:HG23	1:88:A:ASP:HA	3	0.73
(1,1851)	1:127:A:THR:HG23	1:125:A:VAL:HA	1	0.73
(1,1849)	1:127:A:THR:HG21	1:139:A:LYS:HA	1	0.73
(1,1849)	1:127:A:THR:HG21	1:139:A:LYS:HA	9	0.73
(1,1799)	1:124:A:LEU:HD11	1:120:A:ASP:HB3	7	0.73
(1,1013)	1:76:A:LEU:HD12	1:138:A:TRP:HZ2	4	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,852)	1:69:A:GLU:HG2	1:73:A:ALA:HB3	9	0.73
(1,485)	1:49:A:ILE:HG21	1:53:A:ARG:HD3	9	0.73
(1,470)	1:49:A:ILE:H	1:49:A:ILE:HD12	1	0.73
(1,470)	1:49:A:ILE:H	1:49:A:ILE:HD13	5	0.73
(1,470)	1:49:A:ILE:H	1:49:A:ILE:HD12	9	0.73
(1,404)	1:46:A:VAL:HG13	1:48:A:SER:HB3	1	0.73
(1,9155)	1:157:A:ILE:H	1:157:A:ILE:HD11	5	0.72
(1,9155)	1:157:A:ILE:H	1:157:A:ILE:HD11	6	0.72
(1,8892)	1:135:A:THR:H	1:133:A:ILE:HD12	9	0.72
(1,8864)	1:132:A:HIS:H	1:131:A:LEU:HD23	1	0.72
(1,8864)	1:132:A:HIS:H	1:131:A:LEU:HD21	4	0.72
(1,8864)	1:132:A:HIS:H	1:131:A:LEU:HD23	9	0.72
(1,8327)	1:78:A:THR:H	1:76:A:LEU:HD23	6	0.72
(1,7363)	1:67:A:HIS:HD2	1:66:A:ILE:HG22	8	0.72
(1,7092)	1:152:A:LEU:HG	1:78:A:THR:HG22	9	0.72
(1,7085)	1:152:A:LEU:HD22	1:152:A:LEU:HA	3	0.72
(1,6869)	1:127:A:THR:HG22	1:139:A:LYS:HB2	5	0.72
(1,6399)	1:110:A:MET:HE3	1:104:A:TRP:HB2	1	0.72
(1,6292)	1:101:A:SER:H	1:100:A:ALA:HB1	3	0.72
(1,5863)	1:79:A:LEU:HD22	1:83:A:TRP:HB2	7	0.72
(1,5744)	1:75:A:ILE:HG21	1:65:A:SER:H	9	0.72
(1,5252)	1:49:A:ILE:HG21	1:53:A:ARG:HD3	2	0.72
(1,5252)	1:49:A:ILE:HG21	1:53:A:ARG:HD3	5	0.72
(1,5118)	1:40:A:LEU:HD11	1:42:A:GLU:HG2	9	0.72
(1,5076)	1:40:A:LEU:HD22	1:55:A:GLN:HG3	1	0.72
(1,4766)	1:152:A:LEU:H	1:152:A:LEU:HD12	2	0.72
(1,4762)	1:138:A:TRP:HE1	1:137:A:GLU:HG2	6	0.72
(1,4737)	1:73:A:ALA:H	1:68:A:ASN:H	3	0.72
(1,4737)	1:73:A:ALA:H	1:68:A:ASN:H	9	0.72
(1,4637)	1:75:A:ILE:HG22	1:152:A:LEU:HB3	1	0.72
(1,4626)	1:66:A:ILE:HG23	1:113:A:ASP:H	10	0.72
(1,4603)	1:49:A:ILE:HG22	1:48:A:SER:H	10	0.72
(1,4598)	1:46:A:VAL:HG22	1:44:A:ILE:HB	9	0.72
(1,4587)	1:152:A:LEU:H	1:152:A:LEU:HD12	2	0.72
(1,4583)	1:138:A:TRP:HE1	1:137:A:GLU:HG2	6	0.72
(1,4558)	1:73:A:ALA:H	1:68:A:ASN:H	3	0.72
(1,4558)	1:73:A:ALA:H	1:68:A:ASN:H	9	0.72
(1,4458)	1:75:A:ILE:HG22	1:152:A:LEU:HB3	1	0.72
(1,4447)	1:66:A:ILE:HG23	1:113:A:ASP:H	10	0.72
(1,4424)	1:49:A:ILE:HG22	1:48:A:SER:H	10	0.72
(1,4419)	1:46:A:VAL:HG22	1:44:A:ILE:HB	9	0.72
(1,4388)	1:157:A:ILE:H	1:157:A:ILE:HD11	5	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4388)	1:157:A:ILE:H	1:157:A:ILE:HD11	6	0.72
(1,4125)	1:135:A:THR:H	1:133:A:ILE:HD12	9	0.72
(1,4097)	1:132:A:HIS:H	1:131:A:LEU:HD23	1	0.72
(1,4097)	1:132:A:HIS:H	1:131:A:LEU:HD21	4	0.72
(1,4097)	1:132:A:HIS:H	1:131:A:LEU:HD23	9	0.72
(1,3560)	1:78:A:THR:H	1:76:A:LEU:HD23	6	0.72
(1,2596)	1:67:A:HIS:HD2	1:66:A:ILE:HG22	8	0.72
(1,2325)	1:152:A:LEU:HG	1:78:A:THR:HG22	9	0.72
(1,2318)	1:152:A:LEU:HD22	1:152:A:LEU:HA	3	0.72
(1,2102)	1:127:A:THR:HG22	1:139:A:LYS:HB2	5	0.72
(1,1632)	1:110:A:MET:HE3	1:104:A:TRP:HB2	1	0.72
(1,1525)	1:101:A:SER:H	1:100:A:ALA:HB1	3	0.72
(1,1096)	1:79:A:LEU:HD22	1:83:A:TRP:HB2	7	0.72
(1,977)	1:75:A:ILE:HG21	1:65:A:SER:H	9	0.72
(1,485)	1:49:A:ILE:HG21	1:53:A:ARG:HD3	2	0.72
(1,485)	1:49:A:ILE:HG21	1:53:A:ARG:HD3	5	0.72
(1,351)	1:40:A:LEU:HD11	1:42:A:GLU:HG2	9	0.72
(1,309)	1:40:A:LEU:HD22	1:55:A:GLN:HG3	1	0.72
(1,9155)	1:157:A:ILE:H	1:157:A:ILE:HD12	8	0.71
(1,8864)	1:132:A:HIS:H	1:131:A:LEU:HD23	10	0.71
(1,7375)	1:71:A:GLU:HA	1:74:A:PHE:HD1	1	0.71
(1,7372)	1:74:A:PHE:HD1	1:75:A:ILE:HA	5	0.71
(1,7295)	1:38:A:ILE:HD11	1:29:A:TRP:HZ3	3	0.71
(1,7172)	1:156:A:ALA:HB1	1:35:A:SER:HB2	3	0.71
(1,7171)	1:156:A:ALA:HB1	1:154:A:LYS:HE2	3	0.71
(1,7092)	1:152:A:LEU:HG	1:78:A:THR:HG21	6	0.71
(1,6773)	1:133:A:ILE:HG23	1:88:A:ASP:HA	7	0.71
(1,6618)	1:127:A:THR:HG23	1:125:A:VAL:HA	9	0.71
(1,6299)	1:101:A:SER:HB3	1:100:A:ALA:HB1	4	0.71
(1,6292)	1:101:A:SER:H	1:100:A:ALA:HB2	1	0.71
(1,6164)	1:91:A:LEU:HD11	1:138:A:TRP:HZ3	9	0.71
(1,6154)	1:91:A:LEU:HD11	1:104:A:TRP:HZ2	4	0.71
(1,5875)	1:79:A:LEU:HD21	1:89:A:ILE:HG12	6	0.71
(1,5875)	1:79:A:LEU:HD22	1:89:A:ILE:HG12	9	0.71
(1,5542)	1:66:A:ILE:HD11	1:71:A:GLU:HG3	2	0.71
(1,5316)	1:52:A:VAL:HG21	1:149:A:GLU:H	5	0.71
(1,5316)	1:52:A:VAL:HG22	1:149:A:GLU:H	6	0.71
(1,4882)	1:30:A:ILE:HG21	1:81:A:LYS:HE2	8	0.71
(1,4766)	1:152:A:LEU:H	1:152:A:LEU:HD13	3	0.71
(1,4603)	1:49:A:ILE:HG21	1:48:A:SER:H	6	0.71
(1,4603)	1:49:A:ILE:HG22	1:48:A:SER:H	9	0.71
(1,4587)	1:152:A:LEU:H	1:152:A:LEU:HD13	3	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4424)	1:49:A:ILE:HG21	1:48:A:SER:H	6	0.71
(1,4424)	1:49:A:ILE:HG22	1:48:A:SER:H	9	0.71
(1,4388)	1:157:A:ILE:H	1:157:A:ILE:HD12	8	0.71
(1,4097)	1:132:A:HIS:H	1:131:A:LEU:HD23	10	0.71
(1,2608)	1:71:A:GLU:HA	1:74:A:PHE:HD1	1	0.71
(1,2605)	1:74:A:PHE:HD1	1:75:A:ILE:HA	5	0.71
(1,2528)	1:38:A:ILE:HD11	1:29:A:TRP:HZ3	3	0.71
(1,2405)	1:156:A:ALA:HB1	1:35:A:SER:HB2	3	0.71
(1,2404)	1:156:A:ALA:HB1	1:154:A:LYS:HE2	3	0.71
(1,2325)	1:152:A:LEU:HG	1:78:A:THR:HG21	6	0.71
(1,2006)	1:133:A:ILE:HG23	1:88:A:ASP:HA	7	0.71
(1,1851)	1:127:A:THR:HG23	1:125:A:VAL:HA	9	0.71
(1,1532)	1:101:A:SER:HB3	1:100:A:ALA:HB1	4	0.71
(1,1525)	1:101:A:SER:H	1:100:A:ALA:HB2	1	0.71
(1,1397)	1:91:A:LEU:HD11	1:138:A:TRP:HZ3	9	0.71
(1,1387)	1:91:A:LEU:HD11	1:104:A:TRP:HZ2	4	0.71
(1,1108)	1:79:A:LEU:HD21	1:89:A:ILE:HG12	6	0.71
(1,1108)	1:79:A:LEU:HD22	1:89:A:ILE:HG12	9	0.71
(1,775)	1:66:A:ILE:HD11	1:71:A:GLU:HG3	2	0.71
(1,549)	1:52:A:VAL:HG21	1:149:A:GLU:H	5	0.71
(1,549)	1:52:A:VAL:HG22	1:149:A:GLU:H	6	0.71
(1,115)	1:30:A:ILE:HG21	1:81:A:LYS:HE2	8	0.71
(1,9155)	1:157:A:ILE:H	1:157:A:ILE:HD12	10	0.7
(1,9009)	1:142:A:ASN:HD21	1:124:A:LEU:HD22	10	0.7
(1,8892)	1:135:A:THR:H	1:133:A:ILE:HD12	5	0.7
(1,8892)	1:135:A:THR:H	1:133:A:ILE:HD13	8	0.7
(1,8327)	1:78:A:THR:H	1:76:A:LEU:HD23	1	0.7
(1,8233)	1:72:A:ASN:H	1:73:A:ALA:HB1	5	0.7
(1,7375)	1:71:A:GLU:HA	1:74:A:PHE:HD1	8	0.7
(1,7372)	1:74:A:PHE:HD1	1:75:A:ILE:HA	3	0.7
(1,7306)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	3	0.7
(1,7306)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	6	0.7
(1,7306)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	7	0.7
(1,7295)	1:38:A:ILE:HD11	1:29:A:TRP:HZ3	5	0.7
(1,7295)	1:38:A:ILE:HD11	1:29:A:TRP:HZ3	8	0.7
(1,7171)	1:156:A:ALA:HB1	1:154:A:LYS:HE2	2	0.7
(1,6720)	1:131:A:LEU:HD23	1:138:A:TRP:HA	2	0.7
(1,6720)	1:131:A:LEU:HD21	1:138:A:TRP:HA	8	0.7
(1,6616)	1:127:A:THR:HG23	1:139:A:LYS:HA	2	0.7
(1,6616)	1:127:A:THR:HG22	1:139:A:LYS:HA	4	0.7
(1,6399)	1:110:A:MET:HE3	1:104:A:TRP:HB2	4	0.7
(1,6399)	1:110:A:MET:HE1	1:104:A:TRP:HB2	8	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6292)	1:101:A:SER:H	1:100:A:ALA:HB2	2	0.7
(1,5875)	1:79:A:LEU:HD22	1:89:A:ILE:HG12	3	0.7
(1,5875)	1:79:A:LEU:HD23	1:89:A:ILE:HG12	10	0.7
(1,5746)	1:75:A:ILE:H	1:75:A:ILE:HG21	2	0.7
(1,5746)	1:75:A:ILE:H	1:75:A:ILE:HG23	10	0.7
(1,5736)	1:75:A:ILE:HG23	1:78:A:THR:HG21	6	0.7
(1,5252)	1:49:A:ILE:HG22	1:53:A:ARG:HD3	4	0.7
(1,5237)	1:49:A:ILE:H	1:49:A:ILE:HD12	2	0.7
(1,5171)	1:46:A:VAL:HG12	1:48:A:SER:HB3	7	0.7
(1,5076)	1:40:A:LEU:HD22	1:55:A:GLN:HG3	2	0.7
(1,5076)	1:40:A:LEU:HD22	1:55:A:GLN:HG3	3	0.7
(1,5076)	1:40:A:LEU:HD22	1:55:A:GLN:HG3	7	0.7
(1,4940)	1:36:A:CYS:HA	1:74:A:PHE:HE1	5	0.7
(1,4766)	1:152:A:LEU:H	1:152:A:LEU:HD13	4	0.7
(1,4766)	1:152:A:LEU:H	1:152:A:LEU:HD11	9	0.7
(1,4737)	1:73:A:ALA:H	1:68:A:ASN:H	6	0.7
(1,4717)	1:36:A:CYS:H	1:157:A:ILE:HG13	8	0.7
(1,4646)	1:79:A:LEU:HD12	1:89:A:ILE:HA	1	0.7
(1,4646)	1:79:A:LEU:HD11	1:89:A:ILE:HA	10	0.7
(1,4637)	1:75:A:ILE:HG21	1:152:A:LEU:HB3	8	0.7
(1,4622)	1:64:A:ILE:HG22	1:75:A:ILE:HG23	8	0.7
(1,4616)	1:93:A:MET:H	1:63:A:MET:HE3	2	0.7
(1,4603)	1:49:A:ILE:HG22	1:48:A:SER:H	2	0.7
(1,4603)	1:49:A:ILE:HG23	1:48:A:SER:H	3	0.7
(1,4587)	1:152:A:LEU:H	1:152:A:LEU:HD13	4	0.7
(1,4587)	1:152:A:LEU:H	1:152:A:LEU:HD11	9	0.7
(1,4558)	1:73:A:ALA:H	1:68:A:ASN:H	6	0.7
(1,4538)	1:36:A:CYS:H	1:157:A:ILE:HG13	8	0.7
(1,4467)	1:79:A:LEU:HD12	1:89:A:ILE:HA	1	0.7
(1,4467)	1:79:A:LEU:HD11	1:89:A:ILE:HA	10	0.7
(1,4458)	1:75:A:ILE:HG21	1:152:A:LEU:HB3	8	0.7
(1,4443)	1:64:A:ILE:HG22	1:75:A:ILE:HG23	8	0.7
(1,4437)	1:93:A:MET:H	1:63:A:MET:HE3	2	0.7
(1,4424)	1:49:A:ILE:HG22	1:48:A:SER:H	2	0.7
(1,4424)	1:49:A:ILE:HG23	1:48:A:SER:H	3	0.7
(1,4388)	1:157:A:ILE:H	1:157:A:ILE:HD12	10	0.7
(1,4242)	1:142:A:ASN:HD21	1:124:A:LEU:HD22	10	0.7
(1,4125)	1:135:A:THR:H	1:133:A:ILE:HD12	5	0.7
(1,4125)	1:135:A:THR:H	1:133:A:ILE:HD13	8	0.7
(1,3560)	1:78:A:THR:H	1:76:A:LEU:HD23	1	0.7
(1,3466)	1:72:A:ASN:H	1:73:A:ALA:HB1	5	0.7
(1,2608)	1:71:A:GLU:HA	1:74:A:PHE:HD1	8	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2605)	1:74:A:PHE:HD1	1:75:A:ILE:HA	3	0.7
(1,2539)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	3	0.7
(1,2539)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	6	0.7
(1,2539)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	7	0.7
(1,2528)	1:38:A:ILE:HD11	1:29:A:TRP:HZ3	5	0.7
(1,2528)	1:38:A:ILE:HD11	1:29:A:TRP:HZ3	8	0.7
(1,2404)	1:156:A:ALA:HB1	1:154:A:LYS:HE2	2	0.7
(1,1953)	1:131:A:LEU:HD23	1:138:A:TRP:HA	2	0.7
(1,1953)	1:131:A:LEU:HD21	1:138:A:TRP:HA	8	0.7
(1,1849)	1:127:A:THR:HG23	1:139:A:LYS:HA	2	0.7
(1,1849)	1:127:A:THR:HG22	1:139:A:LYS:HA	4	0.7
(1,1632)	1:110:A:MET:HE3	1:104:A:TRP:HB2	4	0.7
(1,1632)	1:110:A:MET:HE1	1:104:A:TRP:HB2	8	0.7
(1,1525)	1:101:A:SER:H	1:100:A:ALA:HB2	2	0.7
(1,1108)	1:79:A:LEU:HD22	1:89:A:ILE:HG12	3	0.7
(1,1108)	1:79:A:LEU:HD23	1:89:A:ILE:HG12	10	0.7
(1,979)	1:75:A:ILE:H	1:75:A:ILE:HG21	2	0.7
(1,979)	1:75:A:ILE:H	1:75:A:ILE:HG23	10	0.7
(1,969)	1:75:A:ILE:HG23	1:78:A:THR:HG21	6	0.7
(1,485)	1:49:A:ILE:HG22	1:53:A:ARG:HD3	4	0.7
(1,470)	1:49:A:ILE:H	1:49:A:ILE:HD12	2	0.7
(1,404)	1:46:A:VAL:HG12	1:48:A:SER:HB3	7	0.7
(1,309)	1:40:A:LEU:HD22	1:55:A:GLN:HG3	2	0.7
(1,309)	1:40:A:LEU:HD22	1:55:A:GLN:HG3	3	0.7
(1,309)	1:40:A:LEU:HD22	1:55:A:GLN:HG3	7	0.7
(1,173)	1:36:A:CYS:HA	1:74:A:PHE:HE1	5	0.7
(1,9155)	1:157:A:ILE:H	1:157:A:ILE:HD13	7	0.69
(1,8892)	1:135:A:THR:H	1:133:A:ILE:HD13	6	0.69
(1,7306)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	2	0.69
(1,7306)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	10	0.69
(1,7305)	1:32:A:PHE:H	1:32:A:PHE:HD1	8	0.69
(1,7092)	1:152:A:LEU:HG	1:78:A:THR:HG21	2	0.69
(1,6618)	1:127:A:THR:HG23	1:125:A:VAL:HA	7	0.69
(1,6616)	1:127:A:THR:HG22	1:139:A:LYS:HA	8	0.69
(1,6399)	1:110:A:MET:HE2	1:104:A:TRP:HB2	10	0.69
(1,6292)	1:101:A:SER:H	1:100:A:ALA:HB3	8	0.69
(1,6164)	1:91:A:LEU:HD11	1:138:A:TRP:HZ3	4	0.69
(1,6148)	1:91:A:LEU:HD11	1:90:A:LEU:H	6	0.69
(1,5892)	1:80:A:LYS:HB3	1:133:A:ILE:HG23	8	0.69
(1,5875)	1:79:A:LEU:HD23	1:89:A:ILE:HG12	5	0.69
(1,5736)	1:75:A:ILE:HG21	1:78:A:THR:HG21	8	0.69
(1,5542)	1:66:A:ILE:HD11	1:71:A:GLU:HG3	5	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5316)	1:52:A:VAL:HG23	1:149:A:GLU:H	2	0.69
(1,5253)	1:49:A:ILE:HG13	1:49:A:ILE:HG21	1	0.69
(1,5253)	1:49:A:ILE:HG13	1:49:A:ILE:HG21	3	0.69
(1,5253)	1:49:A:ILE:HG13	1:49:A:ILE:HG23	5	0.69
(1,4766)	1:152:A:LEU:H	1:152:A:LEU:HD11	5	0.69
(1,4752)	1:106:A:ASP:H	1:93:A:MET:HB2	10	0.69
(1,4603)	1:49:A:ILE:HG21	1:48:A:SER:H	7	0.69
(1,4587)	1:152:A:LEU:H	1:152:A:LEU:HD11	5	0.69
(1,4573)	1:106:A:ASP:H	1:93:A:MET:HB2	10	0.69
(1,4424)	1:49:A:ILE:HG21	1:48:A:SER:H	7	0.69
(1,4388)	1:157:A:ILE:H	1:157:A:ILE:HD13	7	0.69
(1,4125)	1:135:A:THR:H	1:133:A:ILE:HD13	6	0.69
(1,2539)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	2	0.69
(1,2539)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	10	0.69
(1,2538)	1:32:A:PHE:H	1:32:A:PHE:HD1	8	0.69
(1,2325)	1:152:A:LEU:HG	1:78:A:THR:HG21	2	0.69
(1,1851)	1:127:A:THR:HG23	1:125:A:VAL:HA	7	0.69
(1,1849)	1:127:A:THR:HG22	1:139:A:LYS:HA	8	0.69
(1,1632)	1:110:A:MET:HE2	1:104:A:TRP:HB2	10	0.69
(1,1525)	1:101:A:SER:H	1:100:A:ALA:HB3	8	0.69
(1,1397)	1:91:A:LEU:HD11	1:138:A:TRP:HZ3	4	0.69
(1,1381)	1:91:A:LEU:HD11	1:90:A:LEU:H	6	0.69
(1,1125)	1:80:A:LYS:HB3	1:133:A:ILE:HG23	8	0.69
(1,1108)	1:79:A:LEU:HD23	1:89:A:ILE:HG12	5	0.69
(1,969)	1:75:A:ILE:HG21	1:78:A:THR:HG21	8	0.69
(1,775)	1:66:A:ILE:HD11	1:71:A:GLU:HG3	5	0.69
(1,549)	1:52:A:VAL:HG23	1:149:A:GLU:H	2	0.69
(1,486)	1:49:A:ILE:HG13	1:49:A:ILE:HG21	1	0.69
(1,486)	1:49:A:ILE:HG13	1:49:A:ILE:HG21	3	0.69
(1,486)	1:49:A:ILE:HG13	1:49:A:ILE:HG23	5	0.69
(1,8892)	1:135:A:THR:H	1:133:A:ILE:HD11	2	0.68
(1,8892)	1:135:A:THR:H	1:133:A:ILE:HD12	7	0.68
(1,8273)	1:73:A:ALA:H	1:66:A:ILE:HG22	3	0.68
(1,8233)	1:72:A:ASN:H	1:73:A:ALA:HB1	3	0.68
(1,7569)	1:145:A:VAL:HG23	1:130:A:PHE:HZ	4	0.68
(1,7569)	1:145:A:VAL:HG22	1:130:A:PHE:HZ	8	0.68
(1,7306)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	1	0.68
(1,7306)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	5	0.68
(1,7295)	1:38:A:ILE:HD13	1:29:A:TRP:HZ3	7	0.68
(1,7161)	1:155:A:THR:HG22	1:35:A:SER:HB2	7	0.68
(1,7092)	1:152:A:LEU:HG	1:78:A:THR:HG21	1	0.68
(1,7092)	1:152:A:LEU:HG	1:78:A:THR:HG23	10	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6773)	1:133:A:ILE:HG21	1:88:A:ASP:HA	9	0.68
(1,6618)	1:127:A:THR:HG21	1:125:A:VAL:HA	2	0.68
(1,6299)	1:101:A:SER:HB3	1:100:A:ALA:HB1	5	0.68
(1,6164)	1:91:A:LEU:HD12	1:138:A:TRP:HZ3	1	0.68
(1,6164)	1:91:A:LEU:HD11	1:138:A:TRP:HZ3	3	0.68
(1,6154)	1:91:A:LEU:HD13	1:104:A:TRP:HZ2	8	0.68
(1,6148)	1:91:A:LEU:HD12	1:90:A:LEU:H	7	0.68
(1,5892)	1:80:A:LYS:HB3	1:133:A:ILE:HG23	2	0.68
(1,5848)	1:78:A:THR:HG21	1:79:A:LEU:HD11	2	0.68
(1,5848)	1:78:A:THR:HG22	1:79:A:LEU:HD12	3	0.68
(1,5848)	1:78:A:THR:HG21	1:79:A:LEU:HD12	6	0.68
(1,5848)	1:78:A:THR:HG21	1:79:A:LEU:HD11	8	0.68
(1,5848)	1:78:A:THR:HG22	1:79:A:LEU:HD12	9	0.68
(1,5789)	1:76:A:LEU:HD23	1:76:A:LEU:HA	4	0.68
(1,5746)	1:75:A:ILE:H	1:75:A:ILE:HG22	1	0.68
(1,5746)	1:75:A:ILE:H	1:75:A:ILE:HG23	6	0.68
(1,5688)	1:73:A:ALA:HB1	1:114:A:LYS:HE3	9	0.68
(1,5576)	1:66:A:ILE:HG23	1:91:A:LEU:HD23	8	0.68
(1,5564)	1:66:A:ILE:HG22	1:69:A:GLU:H	1	0.68
(1,5563)	1:66:A:ILE:HG23	1:67:A:HIS:HB2	3	0.68
(1,5542)	1:66:A:ILE:HD11	1:71:A:GLU:HG3	1	0.68
(1,5542)	1:66:A:ILE:HD11	1:71:A:GLU:HG3	10	0.68
(1,5253)	1:49:A:ILE:HG13	1:49:A:ILE:HG23	9	0.68
(1,5076)	1:40:A:LEU:HD21	1:55:A:GLN:HG3	6	0.68
(1,4940)	1:36:A:CYS:HA	1:74:A:PHE:HE1	6	0.68
(1,4878)	1:30:A:ILE:HG23	1:37:A:TYR:HB3	6	0.68
(1,4737)	1:73:A:ALA:H	1:68:A:ASN:H	1	0.68
(1,4737)	1:73:A:ALA:H	1:68:A:ASN:H	5	0.68
(1,4717)	1:36:A:CYS:H	1:157:A:ILE:HG13	3	0.68
(1,4646)	1:79:A:LEU:HD11	1:89:A:ILE:HA	9	0.68
(1,4637)	1:75:A:ILE:HG23	1:152:A:LEU:HB3	6	0.68
(1,4622)	1:64:A:ILE:HG21	1:75:A:ILE:HG22	4	0.68
(1,4603)	1:49:A:ILE:HG22	1:48:A:SER:H	5	0.68
(1,4598)	1:46:A:VAL:HG22	1:44:A:ILE:HB	6	0.68
(1,4558)	1:73:A:ALA:H	1:68:A:ASN:H	1	0.68
(1,4558)	1:73:A:ALA:H	1:68:A:ASN:H	5	0.68
(1,4538)	1:36:A:CYS:H	1:157:A:ILE:HG13	3	0.68
(1,4467)	1:79:A:LEU:HD11	1:89:A:ILE:HA	9	0.68
(1,4458)	1:75:A:ILE:HG23	1:152:A:LEU:HB3	6	0.68
(1,4443)	1:64:A:ILE:HG21	1:75:A:ILE:HG22	4	0.68
(1,4424)	1:49:A:ILE:HG22	1:48:A:SER:H	5	0.68
(1,4419)	1:46:A:VAL:HG22	1:44:A:ILE:HB	6	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4125)	1:135:A:THR:H	1:133:A:ILE:HD11	2	0.68
(1,4125)	1:135:A:THR:H	1:133:A:ILE:HD12	7	0.68
(1,3506)	1:73:A:ALA:H	1:66:A:ILE:HG22	3	0.68
(1,3466)	1:72:A:ASN:H	1:73:A:ALA:HB1	3	0.68
(1,2802)	1:145:A:VAL:HG23	1:130:A:PHE:HZ	4	0.68
(1,2802)	1:145:A:VAL:HG22	1:130:A:PHE:HZ	8	0.68
(1,2539)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	1	0.68
(1,2539)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	5	0.68
(1,2528)	1:38:A:ILE:HD13	1:29:A:TRP:HZ3	7	0.68
(1,2394)	1:155:A:THR:HG22	1:35:A:SER:HB2	7	0.68
(1,2325)	1:152:A:LEU:HG	1:78:A:THR:HG21	1	0.68
(1,2325)	1:152:A:LEU:HG	1:78:A:THR:HG23	10	0.68
(1,2006)	1:133:A:ILE:HG21	1:88:A:ASP:HA	9	0.68
(1,1851)	1:127:A:THR:HG21	1:125:A:VAL:HA	2	0.68
(1,1532)	1:101:A:SER:HB3	1:100:A:ALA:HB1	5	0.68
(1,1397)	1:91:A:LEU:HD12	1:138:A:TRP:HZ3	1	0.68
(1,1397)	1:91:A:LEU:HD11	1:138:A:TRP:HZ3	3	0.68
(1,1387)	1:91:A:LEU:HD13	1:104:A:TRP:HZ2	8	0.68
(1,1381)	1:91:A:LEU:HD12	1:90:A:LEU:H	7	0.68
(1,1125)	1:80:A:LYS:HB3	1:133:A:ILE:HG23	2	0.68
(1,1081)	1:78:A:THR:HG21	1:79:A:LEU:HD11	2	0.68
(1,1081)	1:78:A:THR:HG22	1:79:A:LEU:HD12	3	0.68
(1,1081)	1:78:A:THR:HG21	1:79:A:LEU:HD12	6	0.68
(1,1081)	1:78:A:THR:HG21	1:79:A:LEU:HD11	8	0.68
(1,1081)	1:78:A:THR:HG22	1:79:A:LEU:HD12	9	0.68
(1,1022)	1:76:A:LEU:HD23	1:76:A:LEU:HA	4	0.68
(1,979)	1:75:A:ILE:H	1:75:A:ILE:HG22	1	0.68
(1,979)	1:75:A:ILE:H	1:75:A:ILE:HG23	6	0.68
(1,921)	1:73:A:ALA:HB1	1:114:A:LYS:HE3	9	0.68
(1,809)	1:66:A:ILE:HG23	1:91:A:LEU:HD23	8	0.68
(1,797)	1:66:A:ILE:HG22	1:69:A:GLU:H	1	0.68
(1,796)	1:66:A:ILE:HG23	1:67:A:HIS:HB2	3	0.68
(1,775)	1:66:A:ILE:HD11	1:71:A:GLU:HG3	1	0.68
(1,775)	1:66:A:ILE:HD11	1:71:A:GLU:HG3	10	0.68
(1,486)	1:49:A:ILE:HG13	1:49:A:ILE:HG23	9	0.68
(1,309)	1:40:A:LEU:HD21	1:55:A:GLN:HG3	6	0.68
(1,173)	1:36:A:CYS:HA	1:74:A:PHE:HE1	6	0.68
(1,111)	1:30:A:ILE:HG23	1:37:A:TYR:HB3	6	0.68
(1,7375)	1:71:A:GLU:HA	1:74:A:PHE:HD1	2	0.67
(1,7363)	1:67:A:HIS:HD2	1:66:A:ILE:HG22	2	0.67
(1,7363)	1:67:A:HIS:HD2	1:66:A:ILE:HG21	5	0.67
(1,7363)	1:67:A:HIS:HD2	1:66:A:ILE:HG22	7	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7306)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	9	0.67
(1,7092)	1:152:A:LEU:HG	1:78:A:THR:HG23	4	0.67
(1,6869)	1:127:A:THR:HG21	1:139:A:LYS:HB2	10	0.67
(1,6616)	1:127:A:THR:HG22	1:139:A:LYS:HA	7	0.67
(1,6596)	1:125:A:VAL:HG12	1:97:A:THR:HG22	5	0.67
(1,6292)	1:101:A:SER:H	1:100:A:ALA:HB2	7	0.67
(1,6292)	1:101:A:SER:H	1:100:A:ALA:HB3	9	0.67
(1,6164)	1:91:A:LEU:HD12	1:138:A:TRP:HZ3	5	0.67
(1,6164)	1:91:A:LEU:HD13	1:138:A:TRP:HZ3	8	0.67
(1,5892)	1:80:A:LYS:HB3	1:133:A:ILE:HG22	4	0.67
(1,5848)	1:78:A:THR:HG21	1:79:A:LEU:HD13	1	0.67
(1,5789)	1:76:A:LEU:HD21	1:76:A:LEU:HA	2	0.67
(1,5789)	1:76:A:LEU:HD23	1:76:A:LEU:HA	9	0.67
(1,5746)	1:75:A:ILE:H	1:75:A:ILE:HG22	5	0.67
(1,5253)	1:49:A:ILE:HG13	1:49:A:ILE:HG21	4	0.67
(1,5253)	1:49:A:ILE:HG13	1:49:A:ILE:HG22	6	0.67
(1,5253)	1:49:A:ILE:HG13	1:49:A:ILE:HG22	7	0.67
(1,5076)	1:40:A:LEU:HD21	1:55:A:GLN:HG3	8	0.67
(1,5076)	1:40:A:LEU:HD21	1:55:A:GLN:HG3	9	0.67
(1,4878)	1:30:A:ILE:HG23	1:37:A:TYR:HB3	1	0.67
(1,4878)	1:30:A:ILE:HG21	1:37:A:TYR:HB3	4	0.67
(1,4737)	1:73:A:ALA:H	1:68:A:ASN:H	7	0.67
(1,4694)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	3	0.67
(1,4694)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	5	0.67
(1,4694)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	7	0.67
(1,4646)	1:79:A:LEU:HD12	1:89:A:ILE:HA	4	0.67
(1,4646)	1:79:A:LEU:HD11	1:89:A:ILE:HA	5	0.67
(1,4622)	1:64:A:ILE:HG21	1:75:A:ILE:HG23	2	0.67
(1,4616)	1:93:A:MET:H	1:63:A:MET:HE2	9	0.67
(1,4596)	1:40:A:LEU:HD13	1:59:A:HIS:HB3	6	0.67
(1,4558)	1:73:A:ALA:H	1:68:A:ASN:H	7	0.67
(1,4515)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	3	0.67
(1,4515)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	5	0.67
(1,4515)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	7	0.67
(1,4467)	1:79:A:LEU:HD12	1:89:A:ILE:HA	4	0.67
(1,4467)	1:79:A:LEU:HD11	1:89:A:ILE:HA	5	0.67
(1,4443)	1:64:A:ILE:HG21	1:75:A:ILE:HG23	2	0.67
(1,4437)	1:93:A:MET:H	1:63:A:MET:HE2	9	0.67
(1,4417)	1:40:A:LEU:HD13	1:59:A:HIS:HB3	6	0.67
(1,2608)	1:71:A:GLU:HA	1:74:A:PHE:HD1	2	0.67
(1,2596)	1:67:A:HIS:HD2	1:66:A:ILE:HG22	2	0.67
(1,2596)	1:67:A:HIS:HD2	1:66:A:ILE:HG21	5	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2596)	1:67:A:HIS:HD2	1:66:A:ILE:HG22	7	0.67
(1,2539)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	9	0.67
(1,2325)	1:152:A:LEU:HG	1:78:A:THR:HG23	4	0.67
(1,2102)	1:127:A:THR:HG21	1:139:A:LYS:HB2	10	0.67
(1,1849)	1:127:A:THR:HG22	1:139:A:LYS:HA	7	0.67
(1,1829)	1:125:A:VAL:HG12	1:97:A:THR:HG22	5	0.67
(1,1525)	1:101:A:SER:H	1:100:A:ALA:HB2	7	0.67
(1,1525)	1:101:A:SER:H	1:100:A:ALA:HB3	9	0.67
(1,1397)	1:91:A:LEU:HD12	1:138:A:TRP:HZ3	5	0.67
(1,1397)	1:91:A:LEU:HD13	1:138:A:TRP:HZ3	8	0.67
(1,1125)	1:80:A:LYS:HB3	1:133:A:ILE:HG22	4	0.67
(1,1081)	1:78:A:THR:HG21	1:79:A:LEU:HD13	1	0.67
(1,1022)	1:76:A:LEU:HD21	1:76:A:LEU:HA	2	0.67
(1,1022)	1:76:A:LEU:HD23	1:76:A:LEU:HA	9	0.67
(1,979)	1:75:A:ILE:H	1:75:A:ILE:HG22	5	0.67
(1,486)	1:49:A:ILE:HG13	1:49:A:ILE:HG21	4	0.67
(1,486)	1:49:A:ILE:HG13	1:49:A:ILE:HG22	6	0.67
(1,486)	1:49:A:ILE:HG13	1:49:A:ILE:HG22	7	0.67
(1,309)	1:40:A:LEU:HD21	1:55:A:GLN:HG3	8	0.67
(1,309)	1:40:A:LEU:HD21	1:55:A:GLN:HG3	9	0.67
(1,111)	1:30:A:ILE:HG23	1:37:A:TYR:HB3	1	0.67
(1,111)	1:30:A:ILE:HG21	1:37:A:TYR:HB3	4	0.67
(1,9084)	1:153:A:CYS:H	1:75:A:ILE:HG23	4	0.66
(1,7372)	1:74:A:PHE:HD1	1:75:A:ILE:HA	6	0.66
(1,7372)	1:74:A:PHE:HD1	1:75:A:ILE:HA	7	0.66
(1,7372)	1:74:A:PHE:HD1	1:75:A:ILE:HA	8	0.66
(1,7363)	1:67:A:HIS:HD2	1:66:A:ILE:HG22	1	0.66
(1,7311)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	2	0.66
(1,7306)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	4	0.66
(1,7306)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	8	0.66
(1,7171)	1:156:A:ALA:HB2	1:154:A:LYS:HE2	8	0.66
(1,7092)	1:152:A:LEU:HG	1:78:A:THR:HG21	8	0.66
(1,7084)	1:152:A:LEU:HD22	1:79:A:LEU:HA	7	0.66
(1,6773)	1:133:A:ILE:HG22	1:88:A:ASP:HA	10	0.66
(1,5892)	1:80:A:LYS:HB3	1:133:A:ILE:HG22	1	0.66
(1,5892)	1:80:A:LYS:HB3	1:133:A:ILE:HG23	3	0.66
(1,5892)	1:80:A:LYS:HB3	1:133:A:ILE:HG23	6	0.66
(1,5892)	1:80:A:LYS:HB3	1:133:A:ILE:HG23	7	0.66
(1,5892)	1:80:A:LYS:HB3	1:133:A:ILE:HG21	9	0.66
(1,5869)	1:79:A:LEU:HD23	1:75:A:ILE:H	1	0.66
(1,5848)	1:78:A:THR:HG23	1:79:A:LEU:HD13	4	0.66
(1,5848)	1:78:A:THR:HG23	1:79:A:LEU:HD12	5	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5848)	1:78:A:THR:HG23	1:79:A:LEU:HD12	7	0.66
(1,5789)	1:76:A:LEU:HD23	1:76:A:LEU:HA	6	0.66
(1,5789)	1:76:A:LEU:HD23	1:76:A:LEU:HA	8	0.66
(1,5563)	1:66:A:ILE:HG22	1:67:A:HIS:HB2	8	0.66
(1,5563)	1:66:A:ILE:HG23	1:67:A:HIS:HB2	9	0.66
(1,5542)	1:66:A:ILE:HD12	1:71:A:GLU:HG3	6	0.66
(1,5253)	1:49:A:ILE:HG13	1:49:A:ILE:HG23	2	0.66
(1,5076)	1:40:A:LEU:HD23	1:55:A:GLN:HG3	5	0.66
(1,5076)	1:40:A:LEU:HD21	1:55:A:GLN:HG3	10	0.66
(1,4752)	1:106:A:ASP:H	1:93:A:MET:HB2	6	0.66
(1,4732)	1:66:A:ILE:H	1:154:A:LYS:HE3	1	0.66
(1,4732)	1:66:A:ILE:H	1:154:A:LYS:HE3	7	0.66
(1,4647)	1:79:A:LEU:HD11	1:152:A:LEU:H	3	0.66
(1,4647)	1:79:A:LEU:HD11	1:152:A:LEU:H	10	0.66
(1,4637)	1:75:A:ILE:HG22	1:152:A:LEU:HB3	7	0.66
(1,4637)	1:75:A:ILE:HG23	1:152:A:LEU:HB3	10	0.66
(1,4622)	1:64:A:ILE:HG23	1:75:A:ILE:HG21	1	0.66
(1,4603)	1:49:A:ILE:HG23	1:48:A:SER:H	1	0.66
(1,4603)	1:49:A:ILE:HG23	1:48:A:SER:H	4	0.66
(1,4592)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	1	0.66
(1,4573)	1:106:A:ASP:H	1:93:A:MET:HB2	6	0.66
(1,4553)	1:66:A:ILE:H	1:154:A:LYS:HE3	1	0.66
(1,4553)	1:66:A:ILE:H	1:154:A:LYS:HE3	7	0.66
(1,4468)	1:79:A:LEU:HD11	1:152:A:LEU:H	3	0.66
(1,4468)	1:79:A:LEU:HD11	1:152:A:LEU:H	10	0.66
(1,4458)	1:75:A:ILE:HG22	1:152:A:LEU:HB3	7	0.66
(1,4458)	1:75:A:ILE:HG23	1:152:A:LEU:HB3	10	0.66
(1,4443)	1:64:A:ILE:HG23	1:75:A:ILE:HG21	1	0.66
(1,4424)	1:49:A:ILE:HG23	1:48:A:SER:H	1	0.66
(1,4424)	1:49:A:ILE:HG23	1:48:A:SER:H	4	0.66
(1,4413)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	1	0.66
(1,4317)	1:153:A:CYS:H	1:75:A:ILE:HG23	4	0.66
(1,2605)	1:74:A:PHE:HD1	1:75:A:ILE:HA	6	0.66
(1,2605)	1:74:A:PHE:HD1	1:75:A:ILE:HA	7	0.66
(1,2605)	1:74:A:PHE:HD1	1:75:A:ILE:HA	8	0.66
(1,2596)	1:67:A:HIS:HD2	1:66:A:ILE:HG22	1	0.66
(1,2544)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	2	0.66
(1,2539)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	4	0.66
(1,2539)	1:32:A:PHE:HB3	1:32:A:PHE:HD1	8	0.66
(1,2404)	1:156:A:ALA:HB2	1:154:A:LYS:HE2	8	0.66
(1,2325)	1:152:A:LEU:HG	1:78:A:THR:HG21	8	0.66
(1,2317)	1:152:A:LEU:HD22	1:79:A:LEU:HA	7	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2006)	1:133:A:ILE:HG22	1:88:A:ASP:HA	10	0.66
(1,1125)	1:80:A:LYS:HB3	1:133:A:ILE:HG22	1	0.66
(1,1125)	1:80:A:LYS:HB3	1:133:A:ILE:HG23	3	0.66
(1,1125)	1:80:A:LYS:HB3	1:133:A:ILE:HG23	6	0.66
(1,1125)	1:80:A:LYS:HB3	1:133:A:ILE:HG23	7	0.66
(1,1125)	1:80:A:LYS:HB3	1:133:A:ILE:HG21	9	0.66
(1,1102)	1:79:A:LEU:HD23	1:75:A:ILE:H	1	0.66
(1,1081)	1:78:A:THR:HG23	1:79:A:LEU:HD13	4	0.66
(1,1081)	1:78:A:THR:HG23	1:79:A:LEU:HD12	5	0.66
(1,1081)	1:78:A:THR:HG23	1:79:A:LEU:HD12	7	0.66
(1,1022)	1:76:A:LEU:HD23	1:76:A:LEU:HA	6	0.66
(1,1022)	1:76:A:LEU:HD23	1:76:A:LEU:HA	8	0.66
(1,796)	1:66:A:ILE:HG22	1:67:A:HIS:HB2	8	0.66
(1,796)	1:66:A:ILE:HG23	1:67:A:HIS:HB2	9	0.66
(1,775)	1:66:A:ILE:HD12	1:71:A:GLU:HG3	6	0.66
(1,486)	1:49:A:ILE:HG13	1:49:A:ILE:HG23	2	0.66
(1,309)	1:40:A:LEU:HD23	1:55:A:GLN:HG3	5	0.66
(1,309)	1:40:A:LEU:HD21	1:55:A:GLN:HG3	10	0.66
(1,8137)	1:63:A:MET:H	1:151:A:THR:HG22	9	0.65
(1,7372)	1:74:A:PHE:HD1	1:75:A:ILE:HA	9	0.65
(1,7311)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	6	0.65
(1,6869)	1:127:A:THR:HG23	1:139:A:LYS:HB2	8	0.65
(1,6773)	1:133:A:ILE:HG23	1:88:A:ASP:HA	6	0.65
(1,6702)	1:131:A:LEU:HD23	1:130:A:PHE:HA	6	0.65
(1,6701)	1:131:A:LEU:HD23	1:132:A:HIS:HA	6	0.65
(1,6645)	1:129:A:ALA:HB1	1:91:A:LEU:HB3	8	0.65
(1,6399)	1:110:A:MET:HE2	1:104:A:TRP:HB2	3	0.65
(1,6299)	1:101:A:SER:HB3	1:100:A:ALA:HB1	10	0.65
(1,6154)	1:91:A:LEU:HD12	1:104:A:TRP:HZ2	1	0.65
(1,6148)	1:91:A:LEU:HD13	1:90:A:LEU:H	10	0.65
(1,5892)	1:80:A:LYS:HB3	1:133:A:ILE:HG22	10	0.65
(1,5848)	1:78:A:THR:HG23	1:79:A:LEU:HD12	10	0.65
(1,5576)	1:66:A:ILE:HG21	1:91:A:LEU:HD23	4	0.65
(1,5547)	1:66:A:ILE:HD13	1:75:A:ILE:HA	1	0.65
(1,4940)	1:36:A:CYS:HA	1:74:A:PHE:HE1	8	0.65
(1,4878)	1:30:A:ILE:HG23	1:37:A:TYR:HB3	2	0.65
(1,4878)	1:30:A:ILE:HG22	1:37:A:TYR:HB3	3	0.65
(1,4878)	1:30:A:ILE:HG21	1:37:A:TYR:HB3	9	0.65
(1,4752)	1:106:A:ASP:H	1:93:A:MET:HB2	2	0.65
(1,4737)	1:73:A:ALA:H	1:68:A:ASN:H	4	0.65
(1,4694)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	9	0.65
(1,4604)	1:49:A:ILE:HG21	1:143:A:CYS:HA	7	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4596)	1:40:A:LEU:HD12	1:59:A:HIS:HB3	2	0.65
(1,4573)	1:106:A:ASP:H	1:93:A:MET:HB2	2	0.65
(1,4558)	1:73:A:ALA:H	1:68:A:ASN:H	4	0.65
(1,4515)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	9	0.65
(1,4425)	1:49:A:ILE:HG21	1:143:A:CYS:HA	7	0.65
(1,4417)	1:40:A:LEU:HD12	1:59:A:HIS:HB3	2	0.65
(1,3370)	1:63:A:MET:H	1:151:A:THR:HG22	9	0.65
(1,2605)	1:74:A:PHE:HD1	1:75:A:ILE:HA	9	0.65
(1,2544)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	6	0.65
(1,2102)	1:127:A:THR:HG23	1:139:A:LYS:HB2	8	0.65
(1,2006)	1:133:A:ILE:HG23	1:88:A:ASP:HA	6	0.65
(1,1935)	1:131:A:LEU:HD23	1:130:A:PHE:HA	6	0.65
(1,1934)	1:131:A:LEU:HD23	1:132:A:HIS:HA	6	0.65
(1,1878)	1:129:A:ALA:HB1	1:91:A:LEU:HB3	8	0.65
(1,1632)	1:110:A:MET:HE2	1:104:A:TRP:HB2	3	0.65
(1,1532)	1:101:A:SER:HB3	1:100:A:ALA:HB1	10	0.65
(1,1387)	1:91:A:LEU:HD12	1:104:A:TRP:HZ2	1	0.65
(1,1381)	1:91:A:LEU:HD13	1:90:A:LEU:H	10	0.65
(1,1125)	1:80:A:LYS:HB3	1:133:A:ILE:HG22	10	0.65
(1,1081)	1:78:A:THR:HG23	1:79:A:LEU:HD12	10	0.65
(1,809)	1:66:A:ILE:HG21	1:91:A:LEU:HD23	4	0.65
(1,780)	1:66:A:ILE:HD13	1:75:A:ILE:HA	1	0.65
(1,173)	1:36:A:CYS:HA	1:74:A:PHE:HE1	8	0.65
(1,111)	1:30:A:ILE:HG23	1:37:A:TYR:HB3	2	0.65
(1,111)	1:30:A:ILE:HG22	1:37:A:TYR:HB3	3	0.65
(1,111)	1:30:A:ILE:HG21	1:37:A:TYR:HB3	9	0.65
(1,9084)	1:153:A:CYS:H	1:75:A:ILE:HG21	3	0.64
(1,9084)	1:153:A:CYS:H	1:75:A:ILE:HG23	6	0.64
(1,8273)	1:73:A:ALA:H	1:66:A:ILE:HG22	9	0.64
(1,8233)	1:72:A:ASN:H	1:73:A:ALA:HB1	7	0.64
(1,8233)	1:72:A:ASN:H	1:73:A:ALA:HB1	8	0.64
(1,8137)	1:63:A:MET:H	1:151:A:THR:HG23	3	0.64
(1,6773)	1:133:A:ILE:HG23	1:88:A:ASP:HA	8	0.64
(1,6701)	1:131:A:LEU:HD22	1:132:A:HIS:HA	7	0.64
(1,6618)	1:127:A:THR:HG23	1:125:A:VAL:HA	3	0.64
(1,6618)	1:127:A:THR:HG23	1:125:A:VAL:HA	4	0.64
(1,6091)	1:90:A:LEU:HD11	1:148:A:VAL:H	2	0.64
(1,5892)	1:80:A:LYS:HB3	1:133:A:ILE:HG21	5	0.64
(1,5875)	1:79:A:LEU:HD23	1:89:A:ILE:HG12	1	0.64
(1,5789)	1:76:A:LEU:HD23	1:76:A:LEU:HA	1	0.64
(1,5789)	1:76:A:LEU:HD23	1:76:A:LEU:HA	3	0.64
(1,5789)	1:76:A:LEU:HD21	1:76:A:LEU:HA	5	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5688)	1:73:A:ALA:HB2	1:114:A:LYS:HE3	1	0.64
(1,5253)	1:49:A:ILE:HG13	1:49:A:ILE:HG23	8	0.64
(1,5171)	1:46:A:VAL:HG11	1:48:A:SER:HB3	6	0.64
(1,5076)	1:40:A:LEU:HD22	1:55:A:GLN:HG3	4	0.64
(1,4940)	1:36:A:CYS:HA	1:74:A:PHE:HE1	4	0.64
(1,4878)	1:30:A:ILE:HG21	1:37:A:TYR:HB3	10	0.64
(1,4866)	1:30:A:ILE:HG21	1:78:A:THR:H	6	0.64
(1,4866)	1:30:A:ILE:HG21	1:78:A:THR:H	8	0.64
(1,4866)	1:30:A:ILE:HG22	1:78:A:THR:H	9	0.64
(1,4737)	1:73:A:ALA:H	1:68:A:ASN:H	2	0.64
(1,4720)	1:39:A:PHE:H	1:30:A:ILE:HB	1	0.64
(1,4717)	1:36:A:CYS:H	1:157:A:ILE:HG13	10	0.64
(1,4694)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	2	0.64
(1,4694)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	10	0.64
(1,4687)	1:32:A:PHE:H	1:157:A:ILE:HD13	9	0.64
(1,4646)	1:79:A:LEU:HD11	1:89:A:ILE:HA	6	0.64
(1,4637)	1:75:A:ILE:HG22	1:152:A:LEU:HB3	5	0.64
(1,4637)	1:75:A:ILE:HG22	1:152:A:LEU:HB3	9	0.64
(1,4622)	1:64:A:ILE:HG23	1:75:A:ILE:HG21	7	0.64
(1,4558)	1:73:A:ALA:H	1:68:A:ASN:H	2	0.64
(1,4541)	1:39:A:PHE:H	1:30:A:ILE:HB	1	0.64
(1,4538)	1:36:A:CYS:H	1:157:A:ILE:HG13	10	0.64
(1,4515)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	2	0.64
(1,4515)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	10	0.64
(1,4508)	1:32:A:PHE:H	1:157:A:ILE:HD13	9	0.64
(1,4467)	1:79:A:LEU:HD11	1:89:A:ILE:HA	6	0.64
(1,4458)	1:75:A:ILE:HG22	1:152:A:LEU:HB3	5	0.64
(1,4458)	1:75:A:ILE:HG22	1:152:A:LEU:HB3	9	0.64
(1,4443)	1:64:A:ILE:HG23	1:75:A:ILE:HG21	7	0.64
(1,4317)	1:153:A:CYS:H	1:75:A:ILE:HG21	3	0.64
(1,4317)	1:153:A:CYS:H	1:75:A:ILE:HG23	6	0.64
(1,3506)	1:73:A:ALA:H	1:66:A:ILE:HG22	9	0.64
(1,3466)	1:72:A:ASN:H	1:73:A:ALA:HB1	7	0.64
(1,3466)	1:72:A:ASN:H	1:73:A:ALA:HB1	8	0.64
(1,3370)	1:63:A:MET:H	1:151:A:THR:HG23	3	0.64
(1,2006)	1:133:A:ILE:HG23	1:88:A:ASP:HA	8	0.64
(1,1934)	1:131:A:LEU:HD22	1:132:A:HIS:HA	7	0.64
(1,1851)	1:127:A:THR:HG23	1:125:A:VAL:HA	3	0.64
(1,1851)	1:127:A:THR:HG23	1:125:A:VAL:HA	4	0.64
(1,1324)	1:90:A:LEU:HD11	1:148:A:VAL:H	2	0.64
(1,1125)	1:80:A:LYS:HB3	1:133:A:ILE:HG21	5	0.64
(1,1108)	1:79:A:LEU:HD23	1:89:A:ILE:HG12	1	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1022)	1:76:A:LEU:HD23	1:76:A:LEU:HA	1	0.64
(1,1022)	1:76:A:LEU:HD23	1:76:A:LEU:HA	3	0.64
(1,1022)	1:76:A:LEU:HD21	1:76:A:LEU:HA	5	0.64
(1,921)	1:73:A:ALA:HB2	1:114:A:LYS:HE3	1	0.64
(1,486)	1:49:A:ILE:HG13	1:49:A:ILE:HG23	8	0.64
(1,404)	1:46:A:VAL:HG11	1:48:A:SER:HB3	6	0.64
(1,309)	1:40:A:LEU:HD22	1:55:A:GLN:HG3	4	0.64
(1,173)	1:36:A:CYS:HA	1:74:A:PHE:HE1	4	0.64
(1,111)	1:30:A:ILE:HG21	1:37:A:TYR:HB3	10	0.64
(1,99)	1:30:A:ILE:HG21	1:78:A:THR:H	6	0.64
(1,99)	1:30:A:ILE:HG21	1:78:A:THR:H	8	0.64
(1,99)	1:30:A:ILE:HG22	1:78:A:THR:H	9	0.64
(1,9155)	1:157:A:ILE:H	1:157:A:ILE:HD13	1	0.63
(1,9155)	1:157:A:ILE:H	1:157:A:ILE:HD13	3	0.63
(1,9084)	1:153:A:CYS:H	1:75:A:ILE:HG22	7	0.63
(1,8273)	1:73:A:ALA:H	1:66:A:ILE:HG21	7	0.63
(1,8137)	1:63:A:MET:H	1:151:A:THR:HG22	7	0.63
(1,7372)	1:74:A:PHE:HD1	1:75:A:ILE:HA	4	0.63
(1,6618)	1:127:A:THR:HG22	1:125:A:VAL:HA	10	0.63
(1,6399)	1:110:A:MET:HE2	1:104:A:TRP:HB2	6	0.63
(1,6091)	1:90:A:LEU:HD13	1:148:A:VAL:H	1	0.63
(1,5949)	1:79:A:LEU:HD21	1:83:A:TRP:HB2	1	0.63
(1,5789)	1:76:A:LEU:HD23	1:76:A:LEU:HA	7	0.63
(1,5784)	1:76:A:LEU:HD22	1:133:A:ILE:H	4	0.63
(1,5784)	1:76:A:LEU:HD22	1:133:A:ILE:H	7	0.63
(1,5784)	1:76:A:LEU:HD22	1:133:A:ILE:H	8	0.63
(1,5118)	1:40:A:LEU:HD12	1:42:A:GLU:HG2	8	0.63
(1,4878)	1:30:A:ILE:HG23	1:37:A:TYR:HB3	8	0.63
(1,4866)	1:30:A:ILE:HG23	1:78:A:THR:H	3	0.63
(1,4737)	1:73:A:ALA:H	1:68:A:ASN:H	8	0.63
(1,4687)	1:32:A:PHE:H	1:157:A:ILE:HD12	7	0.63
(1,4622)	1:64:A:ILE:HG23	1:75:A:ILE:HG22	6	0.63
(1,4596)	1:40:A:LEU:HD13	1:59:A:HIS:HB3	10	0.63
(1,4558)	1:73:A:ALA:H	1:68:A:ASN:H	8	0.63
(1,4508)	1:32:A:PHE:H	1:157:A:ILE:HD12	7	0.63
(1,4443)	1:64:A:ILE:HG23	1:75:A:ILE:HG22	6	0.63
(1,4417)	1:40:A:LEU:HD13	1:59:A:HIS:HB3	10	0.63
(1,4388)	1:157:A:ILE:H	1:157:A:ILE:HD13	1	0.63
(1,4388)	1:157:A:ILE:H	1:157:A:ILE:HD13	3	0.63
(1,4317)	1:153:A:CYS:H	1:75:A:ILE:HG22	7	0.63
(1,3506)	1:73:A:ALA:H	1:66:A:ILE:HG21	7	0.63
(1,3370)	1:63:A:MET:H	1:151:A:THR:HG22	7	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2605)	1:74:A:PHE:HD1	1:75:A:ILE:HA	4	0.63
(1,1851)	1:127:A:THR:HG22	1:125:A:VAL:HA	10	0.63
(1,1632)	1:110:A:MET:HE2	1:104:A:TRP:HB2	6	0.63
(1,1324)	1:90:A:LEU:HD13	1:148:A:VAL:H	1	0.63
(1,1182)	1:79:A:LEU:HD21	1:83:A:TRP:HB2	1	0.63
(1,1022)	1:76:A:LEU:HD23	1:76:A:LEU:HA	7	0.63
(1,1017)	1:76:A:LEU:HD22	1:133:A:ILE:H	4	0.63
(1,1017)	1:76:A:LEU:HD22	1:133:A:ILE:H	7	0.63
(1,1017)	1:76:A:LEU:HD22	1:133:A:ILE:H	8	0.63
(1,351)	1:40:A:LEU:HD12	1:42:A:GLU:HG2	8	0.63
(1,111)	1:30:A:ILE:HG23	1:37:A:TYR:HB3	8	0.63
(1,99)	1:30:A:ILE:HG23	1:78:A:THR:H	3	0.63
(1,9084)	1:153:A:CYS:H	1:75:A:ILE:HG21	8	0.62
(1,8321)	1:77:A:ASP:H	1:76:A:LEU:HD11	10	0.62
(1,8233)	1:72:A:ASN:H	1:73:A:ALA:HB1	10	0.62
(1,8137)	1:63:A:MET:H	1:151:A:THR:HG23	1	0.62
(1,8137)	1:63:A:MET:H	1:151:A:THR:HG21	2	0.62
(1,8137)	1:63:A:MET:H	1:151:A:THR:HG22	4	0.62
(1,8137)	1:63:A:MET:H	1:151:A:THR:HG22	6	0.62
(1,8137)	1:63:A:MET:H	1:151:A:THR:HG23	8	0.62
(1,8137)	1:63:A:MET:H	1:151:A:THR:HG21	10	0.62
(1,7190)	1:157:A:ILE:HD12	1:158:A:PRO:HD3	9	0.62
(1,7084)	1:152:A:LEU:HD21	1:79:A:LEU:HA	3	0.62
(1,7084)	1:152:A:LEU:HD21	1:79:A:LEU:HA	5	0.62
(1,7084)	1:152:A:LEU:HD21	1:79:A:LEU:HA	10	0.62
(1,6839)	1:116:A:THR:HG23	1:137:A:GLU:HG2	1	0.62
(1,6091)	1:90:A:LEU:HD13	1:148:A:VAL:H	6	0.62
(1,6091)	1:90:A:LEU:HD13	1:148:A:VAL:H	7	0.62
(1,5869)	1:79:A:LEU:HD23	1:75:A:ILE:H	10	0.62
(1,5847)	1:79:A:LEU:HD11	1:86:A:PRO:HB3	3	0.62
(1,5784)	1:76:A:LEU:HD23	1:133:A:ILE:H	2	0.62
(1,5784)	1:76:A:LEU:HD22	1:133:A:ILE:H	6	0.62
(1,5253)	1:49:A:ILE:HG13	1:49:A:ILE:HG21	10	0.62
(1,4990)	1:38:A:ILE:HD13	1:30:A:ILE:HG13	1	0.62
(1,4878)	1:30:A:ILE:HG22	1:37:A:TYR:HB3	5	0.62
(1,4752)	1:106:A:ASP:H	1:93:A:MET:HB2	7	0.62
(1,4739)	1:75:A:ILE:H	1:32:A:PHE:HE2	4	0.62
(1,4734)	1:71:A:GLU:H	1:73:A:ALA:HB2	6	0.62
(1,4720)	1:39:A:PHE:H	1:30:A:ILE:HB	3	0.62
(1,4694)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	6	0.62
(1,4637)	1:75:A:ILE:HG21	1:152:A:LEU:HB3	3	0.62
(1,4622)	1:64:A:ILE:HG22	1:75:A:ILE:HG22	10	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4573)	1:106:A:ASP:H	1:93:A:MET:HB2	7	0.62
(1,4560)	1:75:A:ILE:H	1:32:A:PHE:HE2	4	0.62
(1,4555)	1:71:A:GLU:H	1:73:A:ALA:HB2	6	0.62
(1,4541)	1:39:A:PHE:H	1:30:A:ILE:HB	3	0.62
(1,4515)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	6	0.62
(1,4458)	1:75:A:ILE:HG21	1:152:A:LEU:HB3	3	0.62
(1,4443)	1:64:A:ILE:HG22	1:75:A:ILE:HG22	10	0.62
(1,4317)	1:153:A:CYS:H	1:75:A:ILE:HG21	8	0.62
(1,3554)	1:77:A:ASP:H	1:76:A:LEU:HD11	10	0.62
(1,3466)	1:72:A:ASN:H	1:73:A:ALA:HB1	10	0.62
(1,3370)	1:63:A:MET:H	1:151:A:THR:HG23	1	0.62
(1,3370)	1:63:A:MET:H	1:151:A:THR:HG21	2	0.62
(1,3370)	1:63:A:MET:H	1:151:A:THR:HG22	4	0.62
(1,3370)	1:63:A:MET:H	1:151:A:THR:HG22	6	0.62
(1,3370)	1:63:A:MET:H	1:151:A:THR:HG23	8	0.62
(1,3370)	1:63:A:MET:H	1:151:A:THR:HG21	10	0.62
(1,2423)	1:157:A:ILE:HD12	1:158:A:PRO:HD3	9	0.62
(1,2317)	1:152:A:LEU:HD21	1:79:A:LEU:HA	3	0.62
(1,2317)	1:152:A:LEU:HD21	1:79:A:LEU:HA	5	0.62
(1,2317)	1:152:A:LEU:HD21	1:79:A:LEU:HA	10	0.62
(1,2072)	1:116:A:THR:HG23	1:137:A:GLU:HG2	1	0.62
(1,1324)	1:90:A:LEU:HD13	1:148:A:VAL:H	6	0.62
(1,1324)	1:90:A:LEU:HD13	1:148:A:VAL:H	7	0.62
(1,1102)	1:79:A:LEU:HD23	1:75:A:ILE:H	10	0.62
(1,1080)	1:79:A:LEU:HD11	1:86:A:PRO:HB3	3	0.62
(1,1017)	1:76:A:LEU:HD23	1:133:A:ILE:H	2	0.62
(1,1017)	1:76:A:LEU:HD22	1:133:A:ILE:H	6	0.62
(1,486)	1:49:A:ILE:HG13	1:49:A:ILE:HG21	10	0.62
(1,223)	1:38:A:ILE:HD13	1:30:A:ILE:HG13	1	0.62
(1,111)	1:30:A:ILE:HG22	1:37:A:TYR:HB3	5	0.62
(1,9084)	1:153:A:CYS:H	1:75:A:ILE:HG22	9	0.61
(1,8892)	1:135:A:THR:H	1:133:A:ILE:HD12	10	0.61
(1,8397)	1:83:A:TRP:HE1	1:78:A:THR:HG21	6	0.61
(1,8321)	1:77:A:ASP:H	1:76:A:LEU:HD13	2	0.61
(1,7372)	1:74:A:PHE:HD1	1:75:A:ILE:HA	1	0.61
(1,7372)	1:74:A:PHE:HD1	1:75:A:ILE:HA	2	0.61
(1,7305)	1:32:A:PHE:H	1:32:A:PHE:HD1	6	0.61
(1,7295)	1:38:A:ILE:HD12	1:29:A:TRP:HZ3	1	0.61
(1,7172)	1:156:A:ALA:HB2	1:35:A:SER:HB2	8	0.61
(1,6775)	1:133:A:ILE:HG23	1:80:A:LYS:H	1	0.61
(1,6775)	1:133:A:ILE:HG21	1:80:A:LYS:H	2	0.61
(1,6702)	1:131:A:LEU:HD23	1:130:A:PHE:HA	5	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6652)	1:128:A:CYS:HB2	1:129:A:ALA:HB2	10	0.61
(1,6594)	1:97:A:THR:HG22	1:125:A:VAL:HB	5	0.61
(1,6399)	1:110:A:MET:HE1	1:104:A:TRP:HB2	7	0.61
(1,6179)	1:91:A:LEU:HD21	1:114:A:LYS:H	5	0.61
(1,6148)	1:91:A:LEU:HD12	1:90:A:LEU:H	2	0.61
(1,6091)	1:90:A:LEU:HD11	1:148:A:VAL:H	10	0.61
(1,5949)	1:79:A:LEU:HD22	1:83:A:TRP:HB2	6	0.61
(1,5949)	1:79:A:LEU:HD21	1:83:A:TRP:HB2	10	0.61
(1,5857)	1:79:A:LEU:HD13	1:81:A:LYS:H	6	0.61
(1,5789)	1:76:A:LEU:HD23	1:76:A:LEU:HA	10	0.61
(1,5784)	1:76:A:LEU:HD22	1:133:A:ILE:H	1	0.61
(1,5563)	1:66:A:ILE:HG21	1:67:A:HIS:HB2	5	0.61
(1,5496)	1:64:A:ILE:HG21	1:151:A:THR:HB	3	0.61
(1,5029)	1:38:A:ILE:HG22	1:40:A:LEU:HD21	2	0.61
(1,4866)	1:30:A:ILE:HG21	1:78:A:THR:H	2	0.61
(1,4866)	1:30:A:ILE:HG23	1:78:A:THR:H	5	0.61
(1,4866)	1:30:A:ILE:HG22	1:78:A:THR:H	10	0.61
(1,4845)	1:30:A:ILE:HD11	1:37:A:TYR:HA	5	0.61
(1,4739)	1:75:A:ILE:H	1:32:A:PHE:HE2	2	0.61
(1,4737)	1:73:A:ALA:H	1:68:A:ASN:H	10	0.61
(1,4720)	1:39:A:PHE:H	1:30:A:ILE:HB	2	0.61
(1,4646)	1:79:A:LEU:HD11	1:89:A:ILE:HA	7	0.61
(1,4596)	1:40:A:LEU:HD11	1:59:A:HIS:HB3	3	0.61
(1,4560)	1:75:A:ILE:H	1:32:A:PHE:HE2	2	0.61
(1,4558)	1:73:A:ALA:H	1:68:A:ASN:H	10	0.61
(1,4541)	1:39:A:PHE:H	1:30:A:ILE:HB	2	0.61
(1,4467)	1:79:A:LEU:HD11	1:89:A:ILE:HA	7	0.61
(1,4417)	1:40:A:LEU:HD11	1:59:A:HIS:HB3	3	0.61
(1,4317)	1:153:A:CYS:H	1:75:A:ILE:HG22	9	0.61
(1,4125)	1:135:A:THR:H	1:133:A:ILE:HD12	10	0.61
(1,3630)	1:83:A:TRP:HE1	1:78:A:THR:HG21	6	0.61
(1,3554)	1:77:A:ASP:H	1:76:A:LEU:HD13	2	0.61
(1,2605)	1:74:A:PHE:HD1	1:75:A:ILE:HA	1	0.61
(1,2605)	1:74:A:PHE:HD1	1:75:A:ILE:HA	2	0.61
(1,2538)	1:32:A:PHE:H	1:32:A:PHE:HD1	6	0.61
(1,2528)	1:38:A:ILE:HD12	1:29:A:TRP:HZ3	1	0.61
(1,2405)	1:156:A:ALA:HB2	1:35:A:SER:HB2	8	0.61
(1,2008)	1:133:A:ILE:HG23	1:80:A:LYS:H	1	0.61
(1,2008)	1:133:A:ILE:HG21	1:80:A:LYS:H	2	0.61
(1,1935)	1:131:A:LEU:HD23	1:130:A:PHE:HA	5	0.61
(1,1885)	1:128:A:CYS:HB2	1:129:A:ALA:HB2	10	0.61
(1,1827)	1:97:A:THR:HG22	1:125:A:VAL:HB	5	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1632)	1:110:A:MET:HE1	1:104:A:TRP:HB2	7	0.61
(1,1412)	1:91:A:LEU:HD21	1:114:A:LYS:H	5	0.61
(1,1381)	1:91:A:LEU:HD12	1:90:A:LEU:H	2	0.61
(1,1324)	1:90:A:LEU:HD11	1:148:A:VAL:H	10	0.61
(1,1182)	1:79:A:LEU:HD22	1:83:A:TRP:HB2	6	0.61
(1,1182)	1:79:A:LEU:HD21	1:83:A:TRP:HB2	10	0.61
(1,1090)	1:79:A:LEU:HD13	1:81:A:LYS:H	6	0.61
(1,1022)	1:76:A:LEU:HD23	1:76:A:LEU:HA	10	0.61
(1,1017)	1:76:A:LEU:HD22	1:133:A:ILE:H	1	0.61
(1,796)	1:66:A:ILE:HG21	1:67:A:HIS:HB2	5	0.61
(1,729)	1:64:A:ILE:HG21	1:151:A:THR:HB	3	0.61
(1,262)	1:38:A:ILE:HG22	1:40:A:LEU:HD21	2	0.61
(1,99)	1:30:A:ILE:HG21	1:78:A:THR:H	2	0.61
(1,99)	1:30:A:ILE:HG23	1:78:A:THR:H	5	0.61
(1,99)	1:30:A:ILE:HG22	1:78:A:THR:H	10	0.61
(1,78)	1:30:A:ILE:HD11	1:37:A:TYR:HA	5	0.61
(1,9084)	1:153:A:CYS:H	1:75:A:ILE:HG22	1	0.6
(1,9084)	1:153:A:CYS:H	1:75:A:ILE:HG23	10	0.6
(1,8321)	1:77:A:ASP:H	1:76:A:LEU:HD13	4	0.6
(1,8321)	1:77:A:ASP:H	1:76:A:LEU:HD13	7	0.6
(1,8273)	1:73:A:ALA:H	1:66:A:ILE:HG21	8	0.6
(1,8233)	1:72:A:ASN:H	1:73:A:ALA:HB2	2	0.6
(1,8233)	1:72:A:ASN:H	1:73:A:ALA:HB2	6	0.6
(1,7363)	1:67:A:HIS:HD2	1:66:A:ILE:HG23	4	0.6
(1,7363)	1:67:A:HIS:HD2	1:66:A:ILE:HG22	6	0.6
(1,7305)	1:32:A:PHE:H	1:32:A:PHE:HD1	9	0.6
(1,7084)	1:152:A:LEU:HD22	1:79:A:LEU:HA	2	0.6
(1,7064)	1:152:A:LEU:HD11	1:154:A:LYS:HA	4	0.6
(1,7064)	1:152:A:LEU:HD13	1:154:A:LYS:HA	8	0.6
(1,6869)	1:127:A:THR:HG22	1:139:A:LYS:HB2	1	0.6
(1,6720)	1:131:A:LEU:HD23	1:138:A:TRP:HA	4	0.6
(1,6720)	1:131:A:LEU:HD21	1:138:A:TRP:HA	5	0.6
(1,6718)	1:136:A:GLY:H	1:131:A:LEU:HD21	7	0.6
(1,6702)	1:131:A:LEU:HD22	1:130:A:PHE:HA	3	0.6
(1,6652)	1:128:A:CYS:HB2	1:129:A:ALA:HB3	1	0.6
(1,6618)	1:127:A:THR:HG23	1:125:A:VAL:HA	5	0.6
(1,6616)	1:127:A:THR:HG22	1:139:A:LYS:HA	5	0.6
(1,6292)	1:101:A:SER:H	1:100:A:ALA:HB3	10	0.6
(1,5949)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	9	0.6
(1,5869)	1:79:A:LEU:HD21	1:75:A:ILE:H	6	0.6
(1,5869)	1:79:A:LEU:HD21	1:75:A:ILE:H	8	0.6
(1,5869)	1:79:A:LEU:HD22	1:75:A:ILE:H	9	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5847)	1:79:A:LEU:HD12	1:86:A:PRO:HB3	1	0.6
(1,5784)	1:76:A:LEU:HD22	1:133:A:ILE:H	3	0.6
(1,5784)	1:76:A:LEU:HD22	1:133:A:ILE:H	9	0.6
(1,5784)	1:76:A:LEU:HD22	1:133:A:ILE:H	10	0.6
(1,5547)	1:66:A:ILE:HD13	1:75:A:ILE:HA	2	0.6
(1,5431)	1:52:A:VAL:HG21	1:63:A:MET:HB3	10	0.6
(1,4940)	1:36:A:CYS:HA	1:74:A:PHE:HE1	3	0.6
(1,4940)	1:36:A:CYS:HA	1:74:A:PHE:HE1	10	0.6
(1,4878)	1:30:A:ILE:HG22	1:37:A:TYR:HB3	7	0.6
(1,4735)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	2	0.6
(1,4735)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	7	0.6
(1,4720)	1:39:A:PHE:H	1:30:A:ILE:HB	6	0.6
(1,4720)	1:39:A:PHE:H	1:30:A:ILE:HB	9	0.6
(1,4694)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	4	0.6
(1,4646)	1:79:A:LEU:HD13	1:89:A:ILE:HA	2	0.6
(1,4622)	1:64:A:ILE:HG21	1:75:A:ILE:HG21	5	0.6
(1,4556)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	2	0.6
(1,4556)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	7	0.6
(1,4541)	1:39:A:PHE:H	1:30:A:ILE:HB	6	0.6
(1,4541)	1:39:A:PHE:H	1:30:A:ILE:HB	9	0.6
(1,4515)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	4	0.6
(1,4467)	1:79:A:LEU:HD13	1:89:A:ILE:HA	2	0.6
(1,4443)	1:64:A:ILE:HG21	1:75:A:ILE:HG21	5	0.6
(1,4317)	1:153:A:CYS:H	1:75:A:ILE:HG22	1	0.6
(1,4317)	1:153:A:CYS:H	1:75:A:ILE:HG23	10	0.6
(1,3554)	1:77:A:ASP:H	1:76:A:LEU:HD13	4	0.6
(1,3554)	1:77:A:ASP:H	1:76:A:LEU:HD13	7	0.6
(1,3506)	1:73:A:ALA:H	1:66:A:ILE:HG21	8	0.6
(1,3466)	1:72:A:ASN:H	1:73:A:ALA:HB2	2	0.6
(1,3466)	1:72:A:ASN:H	1:73:A:ALA:HB2	6	0.6
(1,2596)	1:67:A:HIS:HD2	1:66:A:ILE:HG23	4	0.6
(1,2596)	1:67:A:HIS:HD2	1:66:A:ILE:HG22	6	0.6
(1,2538)	1:32:A:PHE:H	1:32:A:PHE:HD1	9	0.6
(1,2317)	1:152:A:LEU:HD22	1:79:A:LEU:HA	2	0.6
(1,2297)	1:152:A:LEU:HD11	1:154:A:LYS:HA	4	0.6
(1,2297)	1:152:A:LEU:HD13	1:154:A:LYS:HA	8	0.6
(1,2102)	1:127:A:THR:HG22	1:139:A:LYS:HB2	1	0.6
(1,1953)	1:131:A:LEU:HD23	1:138:A:TRP:HA	4	0.6
(1,1953)	1:131:A:LEU:HD21	1:138:A:TRP:HA	5	0.6
(1,1951)	1:136:A:GLY:H	1:131:A:LEU:HD21	7	0.6
(1,1935)	1:131:A:LEU:HD22	1:130:A:PHE:HA	3	0.6
(1,1885)	1:128:A:CYS:HB2	1:129:A:ALA:HB3	1	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1851)	1:127:A:THR:HG23	1:125:A:VAL:HA	5	0.6
(1,1849)	1:127:A:THR:HG22	1:139:A:LYS:HA	5	0.6
(1,1525)	1:101:A:SER:H	1:100:A:ALA:HB3	10	0.6
(1,1182)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	9	0.6
(1,1102)	1:79:A:LEU:HD21	1:75:A:ILE:H	6	0.6
(1,1102)	1:79:A:LEU:HD21	1:75:A:ILE:H	8	0.6
(1,1102)	1:79:A:LEU:HD22	1:75:A:ILE:H	9	0.6
(1,1080)	1:79:A:LEU:HD12	1:86:A:PRO:HB3	1	0.6
(1,1017)	1:76:A:LEU:HD22	1:133:A:ILE:H	3	0.6
(1,1017)	1:76:A:LEU:HD22	1:133:A:ILE:H	9	0.6
(1,1017)	1:76:A:LEU:HD22	1:133:A:ILE:H	10	0.6
(1,780)	1:66:A:ILE:HD13	1:75:A:ILE:HA	2	0.6
(1,664)	1:52:A:VAL:HG21	1:63:A:MET:HB3	10	0.6
(1,173)	1:36:A:CYS:HA	1:74:A:PHE:HE1	3	0.6
(1,173)	1:36:A:CYS:HA	1:74:A:PHE:HE1	10	0.6
(1,111)	1:30:A:ILE:HG22	1:37:A:TYR:HB3	7	0.6
(1,9084)	1:153:A:CYS:H	1:75:A:ILE:HG21	2	0.59
(1,8273)	1:73:A:ALA:H	1:66:A:ILE:HG23	5	0.59
(1,7363)	1:67:A:HIS:HD2	1:66:A:ILE:HG23	10	0.59
(1,7311)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	8	0.59
(1,7311)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	9	0.59
(1,7305)	1:32:A:PHE:H	1:32:A:PHE:HD1	1	0.59
(1,7064)	1:152:A:LEU:HD13	1:154:A:LYS:HA	1	0.59
(1,6869)	1:127:A:THR:HG22	1:139:A:LYS:HB2	9	0.59
(1,6775)	1:133:A:ILE:HG23	1:80:A:LYS:H	4	0.59
(1,6720)	1:131:A:LEU:HD23	1:138:A:TRP:HA	3	0.59
(1,6720)	1:131:A:LEU:HD22	1:138:A:TRP:HA	10	0.59
(1,6718)	1:136:A:GLY:H	1:131:A:LEU:HD22	5	0.59
(1,6702)	1:131:A:LEU:HD22	1:130:A:PHE:HA	7	0.59
(1,6652)	1:128:A:CYS:HB2	1:129:A:ALA:HB3	4	0.59
(1,6292)	1:101:A:SER:H	1:100:A:ALA:HB3	4	0.59
(1,6179)	1:91:A:LEU:HD22	1:114:A:LYS:H	1	0.59
(1,6154)	1:91:A:LEU:HD11	1:104:A:TRP:HZ2	3	0.59
(1,6154)	1:91:A:LEU:HD12	1:104:A:TRP:HZ2	5	0.59
(1,5949)	1:79:A:LEU:HD21	1:83:A:TRP:HB2	5	0.59
(1,5949)	1:79:A:LEU:HD22	1:83:A:TRP:HB2	8	0.59
(1,5869)	1:79:A:LEU:HD23	1:75:A:ILE:H	5	0.59
(1,5847)	1:79:A:LEU:HD12	1:86:A:PRO:HB3	4	0.59
(1,5736)	1:75:A:ILE:HG21	1:78:A:THR:HG21	2	0.59
(1,5688)	1:73:A:ALA:HB3	1:114:A:LYS:HE3	6	0.59
(1,5439)	1:63:A:MET:HE2	1:90:A:LEU:HB2	7	0.59
(1,5431)	1:52:A:VAL:HG21	1:63:A:MET:HB3	2	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5431)	1:52:A:VAL:HG22	1:63:A:MET:HB3	3	0.59
(1,5431)	1:52:A:VAL:HG23	1:63:A:MET:HB3	6	0.59
(1,5118)	1:40:A:LEU:HD12	1:42:A:GLU:HG2	4	0.59
(1,5029)	1:38:A:ILE:HG22	1:40:A:LEU:HD21	3	0.59
(1,4923)	1:35:A:SER:HA	1:156:A:ALA:HB2	6	0.59
(1,4882)	1:30:A:ILE:HG22	1:81:A:LYS:HE2	4	0.59
(1,4866)	1:30:A:ILE:HG21	1:78:A:THR:H	1	0.59
(1,4866)	1:30:A:ILE:HG22	1:78:A:THR:H	4	0.59
(1,4845)	1:30:A:ILE:HD12	1:37:A:TYR:HA	4	0.59
(1,4845)	1:30:A:ILE:HD11	1:37:A:TYR:HA	7	0.59
(1,4845)	1:30:A:ILE:HD12	1:37:A:TYR:HA	10	0.59
(1,4765)	1:152:A:LEU:H	1:150:A:GLY:HA2	6	0.59
(1,4663)	1:125:A:VAL:HG12	1:142:A:ASN:HA	5	0.59
(1,4647)	1:79:A:LEU:HD13	1:152:A:LEU:H	2	0.59
(1,4647)	1:79:A:LEU:HD11	1:152:A:LEU:H	6	0.59
(1,4626)	1:66:A:ILE:HG23	1:113:A:ASP:H	4	0.59
(1,4592)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	7	0.59
(1,4586)	1:152:A:LEU:H	1:150:A:GLY:HA2	6	0.59
(1,4484)	1:125:A:VAL:HG12	1:142:A:ASN:HA	5	0.59
(1,4468)	1:79:A:LEU:HD13	1:152:A:LEU:H	2	0.59
(1,4468)	1:79:A:LEU:HD11	1:152:A:LEU:H	6	0.59
(1,4447)	1:66:A:ILE:HG23	1:113:A:ASP:H	4	0.59
(1,4413)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	7	0.59
(1,4317)	1:153:A:CYS:H	1:75:A:ILE:HG21	2	0.59
(1,3506)	1:73:A:ALA:H	1:66:A:ILE:HG23	5	0.59
(1,2596)	1:67:A:HIS:HD2	1:66:A:ILE:HG23	10	0.59
(1,2544)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	8	0.59
(1,2544)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	9	0.59
(1,2538)	1:32:A:PHE:H	1:32:A:PHE:HD1	1	0.59
(1,2297)	1:152:A:LEU:HD13	1:154:A:LYS:HA	1	0.59
(1,2102)	1:127:A:THR:HG22	1:139:A:LYS:HB2	9	0.59
(1,2008)	1:133:A:ILE:HG23	1:80:A:LYS:H	4	0.59
(1,1953)	1:131:A:LEU:HD23	1:138:A:TRP:HA	3	0.59
(1,1953)	1:131:A:LEU:HD22	1:138:A:TRP:HA	10	0.59
(1,1951)	1:136:A:GLY:H	1:131:A:LEU:HD22	5	0.59
(1,1935)	1:131:A:LEU:HD22	1:130:A:PHE:HA	7	0.59
(1,1885)	1:128:A:CYS:HB2	1:129:A:ALA:HB3	4	0.59
(1,1525)	1:101:A:SER:H	1:100:A:ALA:HB3	4	0.59
(1,1412)	1:91:A:LEU:HD22	1:114:A:LYS:H	1	0.59
(1,1387)	1:91:A:LEU:HD11	1:104:A:TRP:HZ2	3	0.59
(1,1387)	1:91:A:LEU:HD12	1:104:A:TRP:HZ2	5	0.59
(1,1182)	1:79:A:LEU:HD21	1:83:A:TRP:HB2	5	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1182)	1:79:A:LEU:HD22	1:83:A:TRP:HB2	8	0.59
(1,1102)	1:79:A:LEU:HD23	1:75:A:ILE:H	5	0.59
(1,1080)	1:79:A:LEU:HD12	1:86:A:PRO:HB3	4	0.59
(1,969)	1:75:A:ILE:HG21	1:78:A:THR:HG21	2	0.59
(1,921)	1:73:A:ALA:HB3	1:114:A:LYS:HE3	6	0.59
(1,672)	1:63:A:MET:HE2	1:90:A:LEU:HB2	7	0.59
(1,664)	1:52:A:VAL:HG21	1:63:A:MET:HB3	2	0.59
(1,664)	1:52:A:VAL:HG22	1:63:A:MET:HB3	3	0.59
(1,664)	1:52:A:VAL:HG23	1:63:A:MET:HB3	6	0.59
(1,351)	1:40:A:LEU:HD12	1:42:A:GLU:HG2	4	0.59
(1,262)	1:38:A:ILE:HG22	1:40:A:LEU:HD21	3	0.59
(1,156)	1:35:A:SER:HA	1:156:A:ALA:HB2	6	0.59
(1,115)	1:30:A:ILE:HG22	1:81:A:LYS:HE2	4	0.59
(1,99)	1:30:A:ILE:HG21	1:78:A:THR:H	1	0.59
(1,99)	1:30:A:ILE:HG22	1:78:A:THR:H	4	0.59
(1,78)	1:30:A:ILE:HD12	1:37:A:TYR:HA	4	0.59
(1,78)	1:30:A:ILE:HD11	1:37:A:TYR:HA	7	0.59
(1,78)	1:30:A:ILE:HD12	1:37:A:TYR:HA	10	0.59
(1,8397)	1:83:A:TRP:HE1	1:78:A:THR:HG21	1	0.58
(1,8397)	1:83:A:TRP:HE1	1:78:A:THR:HG21	2	0.58
(1,8321)	1:77:A:ASP:H	1:76:A:LEU:HD11	1	0.58
(1,8321)	1:77:A:ASP:H	1:76:A:LEU:HD12	3	0.58
(1,8321)	1:77:A:ASP:H	1:76:A:LEU:HD12	5	0.58
(1,8321)	1:77:A:ASP:H	1:76:A:LEU:HD12	8	0.58
(1,8321)	1:77:A:ASP:H	1:76:A:LEU:HD12	9	0.58
(1,6775)	1:133:A:ILE:HG21	1:80:A:LYS:H	8	0.58
(1,6701)	1:131:A:LEU:HD23	1:132:A:HIS:HA	5	0.58
(1,6652)	1:128:A:CYS:HB2	1:129:A:ALA:HB3	5	0.58
(1,6652)	1:128:A:CYS:HB2	1:129:A:ALA:HB2	6	0.58
(1,6596)	1:125:A:VAL:HG13	1:97:A:THR:HG21	10	0.58
(1,6594)	1:97:A:THR:HG23	1:125:A:VAL:HB	7	0.58
(1,6164)	1:91:A:LEU:HD11	1:138:A:TRP:HZ3	7	0.58
(1,6148)	1:91:A:LEU:HD12	1:90:A:LEU:H	9	0.58
(1,6112)	1:90:A:LEU:HB2	1:90:A:LEU:HD21	6	0.58
(1,6091)	1:90:A:LEU:HD11	1:148:A:VAL:H	5	0.58
(1,6091)	1:90:A:LEU:HD12	1:148:A:VAL:H	9	0.58
(1,5949)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	2	0.58
(1,5949)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	3	0.58
(1,5949)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	4	0.58
(1,5869)	1:79:A:LEU:HD22	1:75:A:ILE:H	3	0.58
(1,5742)	1:75:A:ILE:HG23	1:78:A:THR:H	5	0.58
(1,5721)	1:75:A:ILE:HD13	1:75:A:ILE:HB	4	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5563)	1:66:A:ILE:HG22	1:67:A:HIS:HB2	6	0.58
(1,5496)	1:64:A:ILE:HG22	1:151:A:THR:HB	6	0.58
(1,5431)	1:52:A:VAL:HG22	1:63:A:MET:HB3	5	0.58
(1,5431)	1:52:A:VAL:HG22	1:63:A:MET:HB3	7	0.58
(1,4923)	1:35:A:SER:HA	1:156:A:ALA:HB2	3	0.58
(1,4866)	1:30:A:ILE:HG23	1:78:A:THR:H	7	0.58
(1,4845)	1:30:A:ILE:HD13	1:37:A:TYR:HA	8	0.58
(1,4765)	1:152:A:LEU:H	1:150:A:GLY:HA2	5	0.58
(1,4739)	1:75:A:ILE:H	1:32:A:PHE:HE2	1	0.58
(1,4735)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	4	0.58
(1,4720)	1:39:A:PHE:H	1:30:A:ILE:HB	4	0.58
(1,4694)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	1	0.58
(1,4694)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	8	0.58
(1,4691)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	3	0.58
(1,4647)	1:79:A:LEU:HD12	1:152:A:LEU:H	1	0.58
(1,4647)	1:79:A:LEU:HD11	1:40:A:LEU:H	7	0.58
(1,4618)	1:64:A:ILE:HA	1:154:A:LYS:HE3	9	0.58
(1,4604)	1:49:A:ILE:HG23	1:143:A:CYS:HA	10	0.58
(1,4592)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	3	0.58
(1,4586)	1:152:A:LEU:H	1:150:A:GLY:HA2	5	0.58
(1,4560)	1:75:A:ILE:H	1:32:A:PHE:HE2	1	0.58
(1,4556)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	4	0.58
(1,4541)	1:39:A:PHE:H	1:30:A:ILE:HB	4	0.58
(1,4515)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	1	0.58
(1,4515)	1:59:A:HIS:HE1	1:42:A:GLU:HG3	8	0.58
(1,4512)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	3	0.58
(1,4468)	1:79:A:LEU:HD12	1:152:A:LEU:H	1	0.58
(1,4468)	1:79:A:LEU:HD11	1:40:A:LEU:H	7	0.58
(1,4439)	1:64:A:ILE:HA	1:154:A:LYS:HE3	9	0.58
(1,4425)	1:49:A:ILE:HG23	1:143:A:CYS:HA	10	0.58
(1,4413)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	3	0.58
(1,3630)	1:83:A:TRP:HE1	1:78:A:THR:HG21	1	0.58
(1,3630)	1:83:A:TRP:HE1	1:78:A:THR:HG21	2	0.58
(1,3554)	1:77:A:ASP:H	1:76:A:LEU:HD11	1	0.58
(1,3554)	1:77:A:ASP:H	1:76:A:LEU:HD12	3	0.58
(1,3554)	1:77:A:ASP:H	1:76:A:LEU:HD12	5	0.58
(1,3554)	1:77:A:ASP:H	1:76:A:LEU:HD12	8	0.58
(1,3554)	1:77:A:ASP:H	1:76:A:LEU:HD12	9	0.58
(1,2008)	1:133:A:ILE:HG21	1:80:A:LYS:H	8	0.58
(1,1934)	1:131:A:LEU:HD23	1:132:A:HIS:HA	5	0.58
(1,1885)	1:128:A:CYS:HB2	1:129:A:ALA:HB3	5	0.58
(1,1885)	1:128:A:CYS:HB2	1:129:A:ALA:HB2	6	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1829)	1:125:A:VAL:HG13	1:97:A:THR:HG21	10	0.58
(1,1827)	1:97:A:THR:HG23	1:125:A:VAL:HB	7	0.58
(1,1397)	1:91:A:LEU:HD11	1:138:A:TRP:HZ3	7	0.58
(1,1381)	1:91:A:LEU:HD12	1:90:A:LEU:H	9	0.58
(1,1345)	1:90:A:LEU:HB2	1:90:A:LEU:HD21	6	0.58
(1,1324)	1:90:A:LEU:HD11	1:148:A:VAL:H	5	0.58
(1,1324)	1:90:A:LEU:HD12	1:148:A:VAL:H	9	0.58
(1,1182)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	2	0.58
(1,1182)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	3	0.58
(1,1182)	1:79:A:LEU:HD23	1:83:A:TRP:HB2	4	0.58
(1,1102)	1:79:A:LEU:HD22	1:75:A:ILE:H	3	0.58
(1,975)	1:75:A:ILE:HG23	1:78:A:THR:H	5	0.58
(1,954)	1:75:A:ILE:HD13	1:75:A:ILE:HB	4	0.58
(1,796)	1:66:A:ILE:HG22	1:67:A:HIS:HB2	6	0.58
(1,729)	1:64:A:ILE:HG22	1:151:A:THR:HB	6	0.58
(1,664)	1:52:A:VAL:HG22	1:63:A:MET:HB3	5	0.58
(1,664)	1:52:A:VAL:HG22	1:63:A:MET:HB3	7	0.58
(1,156)	1:35:A:SER:HA	1:156:A:ALA:HB2	3	0.58
(1,99)	1:30:A:ILE:HG23	1:78:A:THR:H	7	0.58
(1,78)	1:30:A:ILE:HD13	1:37:A:TYR:HA	8	0.58
(1,8397)	1:83:A:TRP:HE1	1:78:A:THR:HG23	4	0.57
(1,8397)	1:83:A:TRP:HE1	1:78:A:THR:HG21	8	0.57
(1,8397)	1:83:A:TRP:HE1	1:78:A:THR:HG22	9	0.57
(1,8233)	1:72:A:ASN:H	1:73:A:ALA:HB1	1	0.57
(1,7494)	1:91:A:LEU:HD23	1:104:A:TRP:HZ2	8	0.57
(1,7311)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	3	0.57
(1,7084)	1:152:A:LEU:HD21	1:79:A:LEU:HA	6	0.57
(1,7064)	1:152:A:LEU:HD13	1:154:A:LYS:HA	2	0.57
(1,7064)	1:152:A:LEU:HD13	1:154:A:LYS:HA	10	0.57
(1,6839)	1:116:A:THR:HG23	1:137:A:GLU:HG2	6	0.57
(1,6775)	1:133:A:ILE:HG21	1:80:A:LYS:H	7	0.57
(1,6775)	1:133:A:ILE:HG22	1:80:A:LYS:H	9	0.57
(1,6775)	1:133:A:ILE:HG23	1:80:A:LYS:H	10	0.57
(1,6718)	1:136:A:GLY:H	1:131:A:LEU:HD22	8	0.57
(1,6718)	1:136:A:GLY:H	1:131:A:LEU:HD23	10	0.57
(1,6702)	1:131:A:LEU:HD21	1:130:A:PHE:HA	1	0.57
(1,6702)	1:131:A:LEU:HD22	1:130:A:PHE:HA	2	0.57
(1,6702)	1:131:A:LEU:HD21	1:130:A:PHE:HA	10	0.57
(1,6701)	1:131:A:LEU:HD21	1:132:A:HIS:HA	9	0.57
(1,6179)	1:91:A:LEU:HD23	1:114:A:LYS:H	8	0.57
(1,6164)	1:91:A:LEU:HD12	1:138:A:TRP:HZ3	10	0.57
(1,6045)	1:89:A:ILE:HD11	1:88:A:ASP:HB2	1	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5869)	1:79:A:LEU:HD22	1:75:A:ILE:H	4	0.57
(1,5857)	1:79:A:LEU:HD11	1:81:A:LYS:H	1	0.57
(1,5784)	1:76:A:LEU:HD23	1:133:A:ILE:H	5	0.57
(1,5742)	1:75:A:ILE:HG22	1:78:A:THR:H	3	0.57
(1,5742)	1:75:A:ILE:HG23	1:78:A:THR:H	7	0.57
(1,5721)	1:75:A:ILE:HD12	1:75:A:ILE:HB	1	0.57
(1,5721)	1:75:A:ILE:HD12	1:75:A:ILE:HB	2	0.57
(1,5721)	1:75:A:ILE:HD13	1:75:A:ILE:HB	6	0.57
(1,5628)	1:70:A:GLU:HB2	1:73:A:ALA:HB1	5	0.57
(1,5563)	1:66:A:ILE:HG22	1:67:A:HIS:HB2	7	0.57
(1,5496)	1:64:A:ILE:HG23	1:151:A:THR:HB	2	0.57
(1,5496)	1:64:A:ILE:HG21	1:151:A:THR:HB	9	0.57
(1,5439)	1:63:A:MET:HE2	1:90:A:LEU:HB2	10	0.57
(1,5431)	1:52:A:VAL:HG21	1:63:A:MET:HB3	1	0.57
(1,5118)	1:40:A:LEU:HD13	1:42:A:GLU:HG2	2	0.57
(1,4848)	1:30:A:ILE:HD12	1:29:A:TRP:HA	9	0.57
(1,4845)	1:30:A:ILE:HD11	1:37:A:TYR:HA	6	0.57
(1,4845)	1:30:A:ILE:HD12	1:37:A:TYR:HA	9	0.57
(1,4765)	1:152:A:LEU:H	1:150:A:GLY:HA2	1	0.57
(1,4765)	1:152:A:LEU:H	1:64:A:ILE:HA	2	0.57
(1,4765)	1:152:A:LEU:H	1:150:A:GLY:HA2	3	0.57
(1,4765)	1:152:A:LEU:H	1:150:A:GLY:HA2	9	0.57
(1,4765)	1:152:A:LEU:H	1:64:A:ILE:HA	10	0.57
(1,4726)	1:45:A:LYS:H	1:47:A:GLU:HG2	8	0.57
(1,4691)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	4	0.57
(1,4691)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	5	0.57
(1,4656)	1:91:A:LEU:HD23	1:115:A:TRP:HZ3	9	0.57
(1,4647)	1:79:A:LEU:HD11	1:152:A:LEU:H	5	0.57
(1,4647)	1:79:A:LEU:HD11	1:152:A:LEU:H	9	0.57
(1,4622)	1:64:A:ILE:HG22	1:75:A:ILE:HG21	9	0.57
(1,4586)	1:152:A:LEU:H	1:150:A:GLY:HA2	1	0.57
(1,4586)	1:152:A:LEU:H	1:64:A:ILE:HA	2	0.57
(1,4586)	1:152:A:LEU:H	1:150:A:GLY:HA2	3	0.57
(1,4586)	1:152:A:LEU:H	1:150:A:GLY:HA2	9	0.57
(1,4586)	1:152:A:LEU:H	1:64:A:ILE:HA	10	0.57
(1,4547)	1:45:A:LYS:H	1:47:A:GLU:HG2	8	0.57
(1,4512)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	4	0.57
(1,4512)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	5	0.57
(1,4477)	1:91:A:LEU:HD23	1:115:A:TRP:HZ3	9	0.57
(1,4468)	1:79:A:LEU:HD11	1:152:A:LEU:H	5	0.57
(1,4468)	1:79:A:LEU:HD11	1:152:A:LEU:H	9	0.57
(1,4443)	1:64:A:ILE:HG22	1:75:A:ILE:HG21	9	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3630)	1:83:A:TRP:HE1	1:78:A:THR:HG23	4	0.57
(1,3630)	1:83:A:TRP:HE1	1:78:A:THR:HG21	8	0.57
(1,3630)	1:83:A:TRP:HE1	1:78:A:THR:HG22	9	0.57
(1,3466)	1:72:A:ASN:H	1:73:A:ALA:HB1	1	0.57
(1,2727)	1:91:A:LEU:HD23	1:104:A:TRP:HZ2	8	0.57
(1,2544)	1:32:A:PHE:HE1	1:70:A:GLU:HB3	3	0.57
(1,2317)	1:152:A:LEU:HD21	1:79:A:LEU:HA	6	0.57
(1,2297)	1:152:A:LEU:HD13	1:154:A:LYS:HA	2	0.57
(1,2297)	1:152:A:LEU:HD13	1:154:A:LYS:HA	10	0.57
(1,2072)	1:116:A:THR:HG23	1:137:A:GLU:HG2	6	0.57
(1,2008)	1:133:A:ILE:HG21	1:80:A:LYS:H	7	0.57
(1,2008)	1:133:A:ILE:HG22	1:80:A:LYS:H	9	0.57
(1,2008)	1:133:A:ILE:HG23	1:80:A:LYS:H	10	0.57
(1,1951)	1:136:A:GLY:H	1:131:A:LEU:HD22	8	0.57
(1,1951)	1:136:A:GLY:H	1:131:A:LEU:HD23	10	0.57
(1,1935)	1:131:A:LEU:HD21	1:130:A:PHE:HA	1	0.57
(1,1935)	1:131:A:LEU:HD22	1:130:A:PHE:HA	2	0.57
(1,1935)	1:131:A:LEU:HD21	1:130:A:PHE:HA	10	0.57
(1,1934)	1:131:A:LEU:HD21	1:132:A:HIS:HA	9	0.57
(1,1412)	1:91:A:LEU:HD23	1:114:A:LYS:H	8	0.57
(1,1397)	1:91:A:LEU:HD12	1:138:A:TRP:HZ3	10	0.57
(1,1278)	1:89:A:ILE:HD11	1:88:A:ASP:HB2	1	0.57
(1,1102)	1:79:A:LEU:HD22	1:75:A:ILE:H	4	0.57
(1,1090)	1:79:A:LEU:HD11	1:81:A:LYS:H	1	0.57
(1,1017)	1:76:A:LEU:HD23	1:133:A:ILE:H	5	0.57
(1,975)	1:75:A:ILE:HG22	1:78:A:THR:H	3	0.57
(1,975)	1:75:A:ILE:HG23	1:78:A:THR:H	7	0.57
(1,954)	1:75:A:ILE:HD12	1:75:A:ILE:HB	1	0.57
(1,954)	1:75:A:ILE:HD12	1:75:A:ILE:HB	2	0.57
(1,954)	1:75:A:ILE:HD13	1:75:A:ILE:HB	6	0.57
(1,861)	1:70:A:GLU:HB2	1:73:A:ALA:HB1	5	0.57
(1,796)	1:66:A:ILE:HG22	1:67:A:HIS:HB2	7	0.57
(1,729)	1:64:A:ILE:HG23	1:151:A:THR:HB	2	0.57
(1,729)	1:64:A:ILE:HG21	1:151:A:THR:HB	9	0.57
(1,672)	1:63:A:MET:HE2	1:90:A:LEU:HB2	10	0.57
(1,664)	1:52:A:VAL:HG21	1:63:A:MET:HB3	1	0.57
(1,351)	1:40:A:LEU:HD13	1:42:A:GLU:HG2	2	0.57
(1,81)	1:30:A:ILE:HD12	1:29:A:TRP:HA	9	0.57
(1,78)	1:30:A:ILE:HD11	1:37:A:TYR:HA	6	0.57
(1,78)	1:30:A:ILE:HD12	1:37:A:TYR:HA	9	0.57
(1,8273)	1:73:A:ALA:H	1:66:A:ILE:HG21	6	0.56
(1,8233)	1:72:A:ASN:H	1:73:A:ALA:HB3	9	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7830)	1:37:A:TYR:H	1:30:A:ILE:HD11	5	0.56
(1,7084)	1:152:A:LEU:HD23	1:79:A:LEU:HA	1	0.56
(1,7064)	1:152:A:LEU:HD12	1:154:A:LYS:HA	5	0.56
(1,6775)	1:133:A:ILE:HG21	1:80:A:LYS:H	3	0.56
(1,6720)	1:131:A:LEU:HD21	1:138:A:TRP:HA	6	0.56
(1,6718)	1:136:A:GLY:H	1:131:A:LEU:HD21	4	0.56
(1,6702)	1:131:A:LEU:HD23	1:130:A:PHE:HA	8	0.56
(1,6702)	1:131:A:LEU:HD21	1:130:A:PHE:HA	9	0.56
(1,6681)	1:131:A:LEU:HD12	1:89:A:ILE:H	4	0.56
(1,6652)	1:128:A:CYS:HB2	1:129:A:ALA:HB2	7	0.56
(1,6652)	1:128:A:CYS:HB2	1:129:A:ALA:HB2	9	0.56
(1,6297)	1:101:A:SER:HB2	1:100:A:ALA:HB1	4	0.56
(1,6179)	1:91:A:LEU:HD22	1:114:A:LYS:H	3	0.56
(1,6164)	1:91:A:LEU:HD11	1:138:A:TRP:HZ3	2	0.56
(1,6164)	1:91:A:LEU:HD13	1:138:A:TRP:HZ3	6	0.56
(1,6154)	1:91:A:LEU:HD11	1:104:A:TRP:HZ2	2	0.56
(1,6112)	1:90:A:LEU:HB2	1:90:A:LEU:HD21	3	0.56
(1,5869)	1:79:A:LEU:HD22	1:75:A:ILE:H	2	0.56
(1,5736)	1:75:A:ILE:HG22	1:78:A:THR:HG21	1	0.56
(1,5722)	1:75:A:ILE:HD12	1:37:A:TYR:HB2	10	0.56
(1,5721)	1:75:A:ILE:HD13	1:75:A:ILE:HB	3	0.56
(1,5721)	1:75:A:ILE:HD13	1:75:A:ILE:HB	5	0.56
(1,5721)	1:75:A:ILE:HD12	1:75:A:ILE:HB	10	0.56
(1,5628)	1:70:A:GLU:HB2	1:73:A:ALA:HB1	1	0.56
(1,5547)	1:66:A:ILE:HD11	1:75:A:ILE:HA	6	0.56
(1,5547)	1:66:A:ILE:HD13	1:75:A:ILE:HA	10	0.56
(1,5496)	1:64:A:ILE:HG22	1:151:A:THR:HB	1	0.56
(1,5496)	1:64:A:ILE:HG22	1:151:A:THR:HB	7	0.56
(1,5118)	1:40:A:LEU:HD11	1:42:A:GLU:HG2	10	0.56
(1,5029)	1:38:A:ILE:HG23	1:40:A:LEU:HD23	6	0.56
(1,5029)	1:38:A:ILE:HG23	1:40:A:LEU:HD23	8	0.56
(1,5029)	1:38:A:ILE:HG21	1:40:A:LEU:HD23	9	0.56
(1,4845)	1:30:A:ILE:HD12	1:37:A:TYR:HA	1	0.56
(1,4845)	1:30:A:ILE:HD11	1:37:A:TYR:HA	2	0.56
(1,4845)	1:30:A:ILE:HD12	1:37:A:TYR:HA	3	0.56
(1,4762)	1:138:A:TRP:HE1	1:137:A:GLU:HG2	1	0.56
(1,4726)	1:45:A:LYS:H	1:47:A:GLU:HG2	9	0.56
(1,4691)	1:61:A:ALA:HB2	1:29:A:TRP:HZ2	2	0.56
(1,4691)	1:61:A:ALA:HB2	1:29:A:TRP:HZ2	6	0.56
(1,4691)	1:61:A:ALA:HB3	1:29:A:TRP:HZ2	9	0.56
(1,4635)	1:75:A:ILE:HD12	1:78:A:THR:H	6	0.56
(1,4623)	1:64:A:ILE:HG23	1:65:A:SER:HB2	9	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4594)	1:40:A:LEU:HD13	1:56:A:CYS:HB2	9	0.56
(1,4583)	1:138:A:TRP:HE1	1:137:A:GLU:HG2	1	0.56
(1,4547)	1:45:A:LYS:H	1:47:A:GLU:HG2	9	0.56
(1,4512)	1:61:A:ALA:HB2	1:29:A:TRP:HZ2	2	0.56
(1,4512)	1:61:A:ALA:HB2	1:29:A:TRP:HZ2	6	0.56
(1,4512)	1:61:A:ALA:HB3	1:29:A:TRP:HZ2	9	0.56
(1,4456)	1:75:A:ILE:HD12	1:78:A:THR:H	6	0.56
(1,4444)	1:64:A:ILE:HG23	1:65:A:SER:HB2	9	0.56
(1,4415)	1:40:A:LEU:HD13	1:56:A:CYS:HB2	9	0.56
(1,3506)	1:73:A:ALA:H	1:66:A:ILE:HG21	6	0.56
(1,3466)	1:72:A:ASN:H	1:73:A:ALA:HB3	9	0.56
(1,3063)	1:37:A:TYR:H	1:30:A:ILE:HD11	5	0.56
(1,2317)	1:152:A:LEU:HD23	1:79:A:LEU:HA	1	0.56
(1,2297)	1:152:A:LEU:HD12	1:154:A:LYS:HA	5	0.56
(1,2008)	1:133:A:ILE:HG21	1:80:A:LYS:H	3	0.56
(1,1953)	1:131:A:LEU:HD21	1:138:A:TRP:HA	6	0.56
(1,1951)	1:136:A:GLY:H	1:131:A:LEU:HD21	4	0.56
(1,1935)	1:131:A:LEU:HD23	1:130:A:PHE:HA	8	0.56
(1,1935)	1:131:A:LEU:HD21	1:130:A:PHE:HA	9	0.56
(1,1914)	1:131:A:LEU:HD12	1:89:A:ILE:H	4	0.56
(1,1885)	1:128:A:CYS:HB2	1:129:A:ALA:HB2	7	0.56
(1,1885)	1:128:A:CYS:HB2	1:129:A:ALA:HB2	9	0.56
(1,1530)	1:101:A:SER:HB2	1:100:A:ALA:HB1	4	0.56
(1,1412)	1:91:A:LEU:HD22	1:114:A:LYS:H	3	0.56
(1,1397)	1:91:A:LEU:HD11	1:138:A:TRP:HZ3	2	0.56
(1,1397)	1:91:A:LEU:HD13	1:138:A:TRP:HZ3	6	0.56
(1,1387)	1:91:A:LEU:HD11	1:104:A:TRP:HZ2	2	0.56
(1,1345)	1:90:A:LEU:HB2	1:90:A:LEU:HD21	3	0.56
(1,1102)	1:79:A:LEU:HD22	1:75:A:ILE:H	2	0.56
(1,969)	1:75:A:ILE:HG22	1:78:A:THR:HG21	1	0.56
(1,955)	1:75:A:ILE:HD12	1:37:A:TYR:HB2	10	0.56
(1,954)	1:75:A:ILE:HD13	1:75:A:ILE:HB	3	0.56
(1,954)	1:75:A:ILE:HD13	1:75:A:ILE:HB	5	0.56
(1,954)	1:75:A:ILE:HD12	1:75:A:ILE:HB	10	0.56
(1,861)	1:70:A:GLU:HB2	1:73:A:ALA:HB1	1	0.56
(1,780)	1:66:A:ILE:HD11	1:75:A:ILE:HA	6	0.56
(1,780)	1:66:A:ILE:HD13	1:75:A:ILE:HA	10	0.56
(1,729)	1:64:A:ILE:HG22	1:151:A:THR:HB	1	0.56
(1,729)	1:64:A:ILE:HG22	1:151:A:THR:HB	7	0.56
(1,351)	1:40:A:LEU:HD11	1:42:A:GLU:HG2	10	0.56
(1,262)	1:38:A:ILE:HG23	1:40:A:LEU:HD23	6	0.56
(1,262)	1:38:A:ILE:HG23	1:40:A:LEU:HD23	8	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,262)	1:38:A:ILE:HG21	1:40:A:LEU:HD23	9	0.56
(1,78)	1:30:A:ILE:HD12	1:37:A:TYR:HA	1	0.56
(1,78)	1:30:A:ILE:HD11	1:37:A:TYR:HA	2	0.56
(1,78)	1:30:A:ILE:HD12	1:37:A:TYR:HA	3	0.56
(1,9053)	1:149:A:GLU:H	1:43:A:ALA:HB1	1	0.55
(1,9053)	1:149:A:GLU:H	1:43:A:ALA:HB1	3	0.55
(1,8321)	1:77:A:ASP:H	1:76:A:LEU:HD11	6	0.55
(1,7830)	1:37:A:TYR:H	1:30:A:ILE:HD12	4	0.55
(1,7305)	1:32:A:PHE:H	1:32:A:PHE:HD1	5	0.55
(1,7172)	1:156:A:ALA:HB3	1:35:A:SER:HB2	4	0.55
(1,7081)	1:78:A:THR:HG22	1:152:A:LEU:HD21	3	0.55
(1,7081)	1:78:A:THR:HG23	1:152:A:LEU:HD21	5	0.55
(1,7064)	1:152:A:LEU:HD12	1:154:A:LYS:HA	9	0.55
(1,6869)	1:127:A:THR:HG22	1:139:A:LYS:HB2	3	0.55
(1,6775)	1:133:A:ILE:HG22	1:80:A:LYS:H	5	0.55
(1,6718)	1:136:A:GLY:H	1:131:A:LEU:HD23	1	0.55
(1,6708)	1:131:A:LEU:HD22	1:88:A:ASP:HA	7	0.55
(1,6681)	1:131:A:LEU:HD13	1:89:A:ILE:H	8	0.55
(1,6596)	1:125:A:VAL:HG13	1:97:A:THR:HG21	9	0.55
(1,6399)	1:110:A:MET:HE3	1:104:A:TRP:HB2	2	0.55
(1,6179)	1:91:A:LEU:HD22	1:114:A:LYS:H	9	0.55
(1,6166)	1:92:A:GLY:H	1:91:A:LEU:HD22	5	0.55
(1,6154)	1:91:A:LEU:HD11	1:104:A:TRP:HZ2	9	0.55
(1,6112)	1:90:A:LEU:HB2	1:90:A:LEU:HD22	7	0.55
(1,5949)	1:79:A:LEU:HD22	1:83:A:TRP:HB2	7	0.55
(1,5744)	1:75:A:ILE:HG22	1:65:A:SER:H	10	0.55
(1,5722)	1:75:A:ILE:HD13	1:37:A:TYR:HB2	5	0.55
(1,5721)	1:75:A:ILE:HD12	1:75:A:ILE:HB	9	0.55
(1,5677)	1:72:A:ASN:HB2	1:73:A:ALA:HB3	2	0.55
(1,5677)	1:72:A:ASN:HB2	1:73:A:ALA:HB2	10	0.55
(1,5576)	1:66:A:ILE:HG22	1:91:A:LEU:HD21	5	0.55
(1,5563)	1:66:A:ILE:HG22	1:67:A:HIS:HB2	2	0.55
(1,5496)	1:64:A:ILE:HG23	1:151:A:THR:HB	5	0.55
(1,5496)	1:64:A:ILE:HG21	1:151:A:THR:HB	8	0.55
(1,5496)	1:64:A:ILE:HG21	1:151:A:THR:HB	10	0.55
(1,5431)	1:52:A:VAL:HG23	1:63:A:MET:HB3	4	0.55
(1,5431)	1:52:A:VAL:HG23	1:63:A:MET:HB3	8	0.55
(1,5412)	1:61:A:ALA:HB1	1:40:A:LEU:HD21	2	0.55
(1,5203)	1:46:A:VAL:HG11	1:47:A:GLU:HG2	6	0.55
(1,5147)	1:44:A:ILE:HG21	1:44:A:ILE:HG23	1	0.55
(1,5147)	1:44:A:ILE:HG22	1:44:A:ILE:HG21	3	0.55
(1,5147)	1:44:A:ILE:HG21	1:44:A:ILE:HG23	5	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5147)	1:44:A:ILE:HG21	1:44:A:ILE:HG23	6	0.55
(1,5147)	1:44:A:ILE:HG22	1:44:A:ILE:HG23	8	0.55
(1,5147)	1:44:A:ILE:HG22	1:44:A:ILE:HG21	10	0.55
(1,4848)	1:30:A:ILE:HD12	1:29:A:TRP:HA	1	0.55
(1,4765)	1:152:A:LEU:H	1:64:A:ILE:HA	8	0.55
(1,4735)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	8	0.55
(1,4735)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	10	0.55
(1,4734)	1:71:A:GLU:H	1:73:A:ALA:HB3	9	0.55
(1,4726)	1:45:A:LYS:H	1:47:A:GLU:HG2	4	0.55
(1,4720)	1:39:A:PHE:H	1:30:A:ILE:HB	10	0.55
(1,4622)	1:64:A:ILE:HG22	1:75:A:ILE:HG23	3	0.55
(1,4586)	1:152:A:LEU:H	1:64:A:ILE:HA	8	0.55
(1,4556)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	8	0.55
(1,4556)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	10	0.55
(1,4555)	1:71:A:GLU:H	1:73:A:ALA:HB3	9	0.55
(1,4547)	1:45:A:LYS:H	1:47:A:GLU:HG2	4	0.55
(1,4541)	1:39:A:PHE:H	1:30:A:ILE:HB	10	0.55
(1,4443)	1:64:A:ILE:HG22	1:75:A:ILE:HG23	3	0.55
(1,4286)	1:149:A:GLU:H	1:43:A:ALA:HB1	1	0.55
(1,4286)	1:149:A:GLU:H	1:43:A:ALA:HB1	3	0.55
(1,3554)	1:77:A:ASP:H	1:76:A:LEU:HD11	6	0.55
(1,3063)	1:37:A:TYR:H	1:30:A:ILE:HD12	4	0.55
(1,2538)	1:32:A:PHE:H	1:32:A:PHE:HD1	5	0.55
(1,2405)	1:156:A:ALA:HB3	1:35:A:SER:HB2	4	0.55
(1,2314)	1:78:A:THR:HG22	1:152:A:LEU:HD21	3	0.55
(1,2314)	1:78:A:THR:HG23	1:152:A:LEU:HD21	5	0.55
(1,2297)	1:152:A:LEU:HD12	1:154:A:LYS:HA	9	0.55
(1,2102)	1:127:A:THR:HG22	1:139:A:LYS:HB2	3	0.55
(1,2008)	1:133:A:ILE:HG22	1:80:A:LYS:H	5	0.55
(1,1951)	1:136:A:GLY:H	1:131:A:LEU:HD23	1	0.55
(1,1941)	1:131:A:LEU:HD22	1:88:A:ASP:HA	7	0.55
(1,1914)	1:131:A:LEU:HD13	1:89:A:ILE:H	8	0.55
(1,1829)	1:125:A:VAL:HG13	1:97:A:THR:HG21	9	0.55
(1,1632)	1:110:A:MET:HE3	1:104:A:TRP:HB2	2	0.55
(1,1412)	1:91:A:LEU:HD22	1:114:A:LYS:H	9	0.55
(1,1399)	1:92:A:GLY:H	1:91:A:LEU:HD22	5	0.55
(1,1387)	1:91:A:LEU:HD11	1:104:A:TRP:HZ2	9	0.55
(1,1345)	1:90:A:LEU:HB2	1:90:A:LEU:HD22	7	0.55
(1,1182)	1:79:A:LEU:HD22	1:83:A:TRP:HB2	7	0.55
(1,977)	1:75:A:ILE:HG22	1:65:A:SER:H	10	0.55
(1,955)	1:75:A:ILE:HD13	1:37:A:TYR:HB2	5	0.55
(1,954)	1:75:A:ILE:HD12	1:75:A:ILE:HB	9	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,910)	1:72:A:ASN:HB2	1:73:A:ALA:HB3	2	0.55
(1,910)	1:72:A:ASN:HB2	1:73:A:ALA:HB2	10	0.55
(1,809)	1:66:A:ILE:HG22	1:91:A:LEU:HD21	5	0.55
(1,796)	1:66:A:ILE:HG22	1:67:A:HIS:HB2	2	0.55
(1,729)	1:64:A:ILE:HG23	1:151:A:THR:HB	5	0.55
(1,729)	1:64:A:ILE:HG21	1:151:A:THR:HB	8	0.55
(1,729)	1:64:A:ILE:HG21	1:151:A:THR:HB	10	0.55
(1,664)	1:52:A:VAL:HG23	1:63:A:MET:HB3	4	0.55
(1,664)	1:52:A:VAL:HG23	1:63:A:MET:HB3	8	0.55
(1,645)	1:61:A:ALA:HB1	1:40:A:LEU:HD21	2	0.55
(1,436)	1:46:A:VAL:HG11	1:47:A:GLU:HG2	6	0.55
(1,380)	1:44:A:ILE:HG21	1:44:A:ILE:HG23	1	0.55
(1,380)	1:44:A:ILE:HG22	1:44:A:ILE:HG21	3	0.55
(1,380)	1:44:A:ILE:HG21	1:44:A:ILE:HG23	5	0.55
(1,380)	1:44:A:ILE:HG21	1:44:A:ILE:HG23	6	0.55
(1,380)	1:44:A:ILE:HG22	1:44:A:ILE:HG23	8	0.55
(1,380)	1:44:A:ILE:HG22	1:44:A:ILE:HG21	10	0.55
(1,81)	1:30:A:ILE:HD12	1:29:A:TRP:HA	1	0.55
(1,8291)	1:75:A:ILE:H	1:32:A:PHE:HD2	1	0.54
(1,7830)	1:37:A:TYR:H	1:30:A:ILE:HD11	7	0.54
(1,7494)	1:91:A:LEU:HD23	1:104:A:TRP:HZ2	4	0.54
(1,7478)	1:104:A:TRP:HE3	1:91:A:LEU:HD13	7	0.54
(1,7064)	1:152:A:LEU:HD11	1:154:A:LYS:HA	3	0.54
(1,7064)	1:152:A:LEU:HD12	1:154:A:LYS:HA	6	0.54
(1,7064)	1:152:A:LEU:HD11	1:154:A:LYS:HA	7	0.54
(1,6681)	1:131:A:LEU:HD11	1:89:A:ILE:H	6	0.54
(1,6681)	1:131:A:LEU:HD11	1:89:A:ILE:H	10	0.54
(1,6652)	1:128:A:CYS:HB2	1:129:A:ALA:HB2	3	0.54
(1,6179)	1:91:A:LEU:HD23	1:114:A:LYS:H	4	0.54
(1,6166)	1:92:A:GLY:H	1:91:A:LEU:HD21	8	0.54
(1,6112)	1:90:A:LEU:HB2	1:90:A:LEU:HD23	1	0.54
(1,6112)	1:90:A:LEU:HB2	1:90:A:LEU:HD22	2	0.54
(1,6112)	1:90:A:LEU:HB2	1:90:A:LEU:HD21	5	0.54
(1,6112)	1:90:A:LEU:HB2	1:90:A:LEU:HD23	8	0.54
(1,6112)	1:90:A:LEU:HB2	1:90:A:LEU:HD23	10	0.54
(1,6091)	1:90:A:LEU:HD11	1:148:A:VAL:H	8	0.54
(1,5736)	1:75:A:ILE:HG23	1:78:A:THR:HG23	4	0.54
(1,5721)	1:75:A:ILE:HD12	1:75:A:ILE:HB	7	0.54
(1,5721)	1:75:A:ILE:HD12	1:75:A:ILE:HB	8	0.54
(1,5677)	1:72:A:ASN:HB2	1:73:A:ALA:HB3	4	0.54
(1,5496)	1:64:A:ILE:HG23	1:151:A:THR:HB	4	0.54
(1,5254)	1:49:A:ILE:HG21	1:105:A:PHE:HD2	1	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5203)	1:46:A:VAL:HG11	1:47:A:GLU:HG2	3	0.54
(1,5203)	1:46:A:VAL:HG12	1:47:A:GLU:HG2	10	0.54
(1,5147)	1:44:A:ILE:HG22	1:44:A:ILE:HG21	2	0.54
(1,5147)	1:44:A:ILE:HG22	1:44:A:ILE:HG21	4	0.54
(1,5147)	1:44:A:ILE:HG21	1:44:A:ILE:HG23	7	0.54
(1,5147)	1:44:A:ILE:HG22	1:44:A:ILE:HG23	9	0.54
(1,5118)	1:40:A:LEU:HD11	1:42:A:GLU:HG2	6	0.54
(1,5029)	1:38:A:ILE:HG21	1:40:A:LEU:HD21	7	0.54
(1,5029)	1:38:A:ILE:HG22	1:40:A:LEU:HD23	10	0.54
(1,4990)	1:38:A:ILE:HD13	1:30:A:ILE:HG13	6	0.54
(1,4848)	1:30:A:ILE:HD12	1:29:A:TRP:HA	3	0.54
(1,4735)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	3	0.54
(1,4720)	1:39:A:PHE:H	1:30:A:ILE:HB	8	0.54
(1,4691)	1:61:A:ALA:HB2	1:29:A:TRP:HZ2	10	0.54
(1,4663)	1:125:A:VAL:HG11	1:142:A:ASN:HA	1	0.54
(1,4663)	1:125:A:VAL:HG13	1:142:A:ASN:HA	10	0.54
(1,4647)	1:79:A:LEU:HD13	1:152:A:LEU:H	8	0.54
(1,4635)	1:75:A:ILE:HD13	1:78:A:THR:H	4	0.54
(1,4635)	1:75:A:ILE:HD11	1:78:A:THR:H	8	0.54
(1,4626)	1:66:A:ILE:HG22	1:113:A:ASP:H	2	0.54
(1,4592)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	10	0.54
(1,4556)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	3	0.54
(1,4541)	1:39:A:PHE:H	1:30:A:ILE:HB	8	0.54
(1,4512)	1:61:A:ALA:HB2	1:29:A:TRP:HZ2	10	0.54
(1,4484)	1:125:A:VAL:HG11	1:142:A:ASN:HA	1	0.54
(1,4484)	1:125:A:VAL:HG13	1:142:A:ASN:HA	10	0.54
(1,4468)	1:79:A:LEU:HD13	1:152:A:LEU:H	8	0.54
(1,4456)	1:75:A:ILE:HD13	1:78:A:THR:H	4	0.54
(1,4456)	1:75:A:ILE:HD11	1:78:A:THR:H	8	0.54
(1,4447)	1:66:A:ILE:HG22	1:113:A:ASP:H	2	0.54
(1,4413)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	10	0.54
(1,3524)	1:75:A:ILE:H	1:32:A:PHE:HD2	1	0.54
(1,3063)	1:37:A:TYR:H	1:30:A:ILE:HD11	7	0.54
(1,2727)	1:91:A:LEU:HD23	1:104:A:TRP:HZ2	4	0.54
(1,2711)	1:104:A:TRP:HE3	1:91:A:LEU:HD13	7	0.54
(1,2297)	1:152:A:LEU:HD11	1:154:A:LYS:HA	3	0.54
(1,2297)	1:152:A:LEU:HD12	1:154:A:LYS:HA	6	0.54
(1,2297)	1:152:A:LEU:HD11	1:154:A:LYS:HA	7	0.54
(1,1914)	1:131:A:LEU:HD11	1:89:A:ILE:H	6	0.54
(1,1914)	1:131:A:LEU:HD11	1:89:A:ILE:H	10	0.54
(1,1885)	1:128:A:CYS:HB2	1:129:A:ALA:HB2	3	0.54
(1,1412)	1:91:A:LEU:HD23	1:114:A:LYS:H	4	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1399)	1:92:A:GLY:H	1:91:A:LEU:HD21	8	0.54
(1,1345)	1:90:A:LEU:HB2	1:90:A:LEU:HD23	1	0.54
(1,1345)	1:90:A:LEU:HB2	1:90:A:LEU:HD22	2	0.54
(1,1345)	1:90:A:LEU:HB2	1:90:A:LEU:HD21	5	0.54
(1,1345)	1:90:A:LEU:HB2	1:90:A:LEU:HD23	8	0.54
(1,1345)	1:90:A:LEU:HB2	1:90:A:LEU:HD23	10	0.54
(1,1324)	1:90:A:LEU:HD11	1:148:A:VAL:H	8	0.54
(1,969)	1:75:A:ILE:HG23	1:78:A:THR:HG23	4	0.54
(1,954)	1:75:A:ILE:HD12	1:75:A:ILE:HB	7	0.54
(1,954)	1:75:A:ILE:HD12	1:75:A:ILE:HB	8	0.54
(1,910)	1:72:A:ASN:HB2	1:73:A:ALA:HB3	4	0.54
(1,729)	1:64:A:ILE:HG23	1:151:A:THR:HB	4	0.54
(1,487)	1:49:A:ILE:HG21	1:105:A:PHE:HD2	1	0.54
(1,436)	1:46:A:VAL:HG11	1:47:A:GLU:HG2	3	0.54
(1,436)	1:46:A:VAL:HG12	1:47:A:GLU:HG2	10	0.54
(1,380)	1:44:A:ILE:HG22	1:44:A:ILE:HG21	2	0.54
(1,380)	1:44:A:ILE:HG22	1:44:A:ILE:HG21	4	0.54
(1,380)	1:44:A:ILE:HG21	1:44:A:ILE:HG23	7	0.54
(1,380)	1:44:A:ILE:HG22	1:44:A:ILE:HG23	9	0.54
(1,351)	1:40:A:LEU:HD11	1:42:A:GLU:HG2	6	0.54
(1,262)	1:38:A:ILE:HG21	1:40:A:LEU:HD21	7	0.54
(1,262)	1:38:A:ILE:HG22	1:40:A:LEU:HD23	10	0.54
(1,223)	1:38:A:ILE:HD13	1:30:A:ILE:HG13	6	0.54
(1,81)	1:30:A:ILE:HD12	1:29:A:TRP:HA	3	0.54
(1,9053)	1:149:A:GLU:H	1:43:A:ALA:HB1	6	0.53
(1,8798)	1:126:A:ASP:H	1:124:A:LEU:HD23	4	0.53
(1,7830)	1:37:A:TYR:H	1:30:A:ILE:HD11	6	0.53
(1,7084)	1:152:A:LEU:HD23	1:79:A:LEU:HA	9	0.53
(1,7081)	1:78:A:THR:HG23	1:152:A:LEU:HD22	7	0.53
(1,7072)	1:152:A:LEU:HB3	1:152:A:LEU:HD13	5	0.53
(1,6839)	1:116:A:THR:HG22	1:137:A:GLU:HG2	9	0.53
(1,6718)	1:136:A:GLY:H	1:131:A:LEU:HD22	6	0.53
(1,6681)	1:131:A:LEU:HD12	1:89:A:ILE:H	1	0.53
(1,6681)	1:131:A:LEU:HD13	1:89:A:ILE:H	2	0.53
(1,6610)	1:127:A:THR:HA	1:127:A:THR:HG23	7	0.53
(1,6610)	1:127:A:THR:HA	1:127:A:THR:HG22	10	0.53
(1,6507)	1:116:A:THR:HA	1:116:A:THR:HG23	1	0.53
(1,6292)	1:101:A:SER:H	1:100:A:ALA:HB3	6	0.53
(1,6179)	1:91:A:LEU:HD23	1:114:A:LYS:H	7	0.53
(1,6154)	1:91:A:LEU:HD12	1:104:A:TRP:HZ2	10	0.53
(1,6116)	1:90:A:LEU:HD22	1:130:A:PHE:HZ	3	0.53
(1,6112)	1:90:A:LEU:HB2	1:90:A:LEU:HD22	4	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6091)	1:90:A:LEU:HD12	1:148:A:VAL:H	4	0.53
(1,6045)	1:89:A:ILE:HD12	1:88:A:ASP:HB2	8	0.53
(1,5742)	1:75:A:ILE:HG21	1:78:A:THR:H	10	0.53
(1,5722)	1:75:A:ILE:HD11	1:37:A:TYR:HB2	7	0.53
(1,5714)	1:75:A:ILE:HA	1:76:A:LEU:HD13	2	0.53
(1,5714)	1:75:A:ILE:HA	1:76:A:LEU:HD13	4	0.53
(1,5714)	1:75:A:ILE:HA	1:76:A:LEU:HD11	6	0.53
(1,5714)	1:75:A:ILE:HA	1:76:A:LEU:HD13	7	0.53
(1,5714)	1:75:A:ILE:HA	1:76:A:LEU:HD11	10	0.53
(1,5628)	1:70:A:GLU:HB2	1:73:A:ALA:HB1	7	0.53
(1,5628)	1:70:A:GLU:HB2	1:73:A:ALA:HB1	10	0.53
(1,5439)	1:63:A:MET:HE2	1:90:A:LEU:HB2	2	0.53
(1,5029)	1:38:A:ILE:HG21	1:40:A:LEU:HD21	1	0.53
(1,5029)	1:38:A:ILE:HG22	1:40:A:LEU:HD21	4	0.53
(1,4883)	1:30:A:ILE:HG21	1:82:A:GLN:H	8	0.53
(1,4848)	1:30:A:ILE:HD11	1:29:A:TRP:HA	6	0.53
(1,4765)	1:152:A:LEU:H	1:64:A:ILE:HA	7	0.53
(1,4734)	1:71:A:GLU:H	1:73:A:ALA:HB1	7	0.53
(1,4728)	1:53:A:ARG:HE	1:62:A:ASP:HB2	8	0.53
(1,4656)	1:91:A:LEU:HD21	1:115:A:TRP:HZ3	4	0.53
(1,4592)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	2	0.53
(1,4586)	1:152:A:LEU:H	1:64:A:ILE:HA	7	0.53
(1,4555)	1:71:A:GLU:H	1:73:A:ALA:HB1	7	0.53
(1,4549)	1:53:A:ARG:HE	1:62:A:ASP:HB2	8	0.53
(1,4477)	1:91:A:LEU:HD21	1:115:A:TRP:HZ3	4	0.53
(1,4413)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	2	0.53
(1,4286)	1:149:A:GLU:H	1:43:A:ALA:HB1	6	0.53
(1,4031)	1:126:A:ASP:H	1:124:A:LEU:HD23	4	0.53
(1,3063)	1:37:A:TYR:H	1:30:A:ILE:HD11	6	0.53
(1,2317)	1:152:A:LEU:HD23	1:79:A:LEU:HA	9	0.53
(1,2314)	1:78:A:THR:HG23	1:152:A:LEU:HD22	7	0.53
(1,2305)	1:152:A:LEU:HB3	1:152:A:LEU:HD13	5	0.53
(1,2072)	1:116:A:THR:HG22	1:137:A:GLU:HG2	9	0.53
(1,1951)	1:136:A:GLY:H	1:131:A:LEU:HD22	6	0.53
(1,1914)	1:131:A:LEU:HD12	1:89:A:ILE:H	1	0.53
(1,1914)	1:131:A:LEU:HD13	1:89:A:ILE:H	2	0.53
(1,1843)	1:127:A:THR:HA	1:127:A:THR:HG23	7	0.53
(1,1843)	1:127:A:THR:HA	1:127:A:THR:HG22	10	0.53
(1,1740)	1:116:A:THR:HA	1:116:A:THR:HG23	1	0.53
(1,1525)	1:101:A:SER:H	1:100:A:ALA:HB3	6	0.53
(1,1412)	1:91:A:LEU:HD23	1:114:A:LYS:H	7	0.53
(1,1387)	1:91:A:LEU:HD12	1:104:A:TRP:HZ2	10	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1349)	1:90:A:LEU:HD22	1:130:A:PHE:HZ	3	0.53
(1,1345)	1:90:A:LEU:HB2	1:90:A:LEU:HD22	4	0.53
(1,1324)	1:90:A:LEU:HD12	1:148:A:VAL:H	4	0.53
(1,1278)	1:89:A:ILE:HD12	1:88:A:ASP:HB2	8	0.53
(1,975)	1:75:A:ILE:HG21	1:78:A:THR:H	10	0.53
(1,955)	1:75:A:ILE:HD11	1:37:A:TYR:HB2	7	0.53
(1,947)	1:75:A:ILE:HA	1:76:A:LEU:HD13	2	0.53
(1,947)	1:75:A:ILE:HA	1:76:A:LEU:HD13	4	0.53
(1,947)	1:75:A:ILE:HA	1:76:A:LEU:HD11	6	0.53
(1,947)	1:75:A:ILE:HA	1:76:A:LEU:HD13	7	0.53
(1,947)	1:75:A:ILE:HA	1:76:A:LEU:HD11	10	0.53
(1,861)	1:70:A:GLU:HB2	1:73:A:ALA:HB1	7	0.53
(1,861)	1:70:A:GLU:HB2	1:73:A:ALA:HB1	10	0.53
(1,672)	1:63:A:MET:HE2	1:90:A:LEU:HB2	2	0.53
(1,262)	1:38:A:ILE:HG21	1:40:A:LEU:HD21	1	0.53
(1,262)	1:38:A:ILE:HG22	1:40:A:LEU:HD21	4	0.53
(1,116)	1:30:A:ILE:HG21	1:82:A:GLN:H	8	0.53
(1,81)	1:30:A:ILE:HD11	1:29:A:TRP:HA	6	0.53
(1,9084)	1:153:A:CYS:H	1:75:A:ILE:HG22	5	0.52
(1,9053)	1:149:A:GLU:H	1:43:A:ALA:HB2	7	0.52
(1,8666)	1:110:A:MET:H	1:103:A:LYS:HG2	5	0.52
(1,8397)	1:83:A:TRP:HE1	1:78:A:THR:HG22	3	0.52
(1,8233)	1:72:A:ASN:H	1:73:A:ALA:HB2	4	0.52
(1,7830)	1:37:A:TYR:H	1:30:A:ILE:HD12	10	0.52
(1,7710)	1:30:A:ILE:H	1:152:A:LEU:HD13	10	0.52
(1,7494)	1:91:A:LEU:HD22	1:104:A:TRP:HZ2	1	0.52
(1,7363)	1:67:A:HIS:HD2	1:66:A:ILE:HG22	9	0.52
(1,7305)	1:32:A:PHE:H	1:32:A:PHE:HD1	3	0.52
(1,7305)	1:32:A:PHE:H	1:32:A:PHE:HD1	10	0.52
(1,7084)	1:152:A:LEU:HD21	1:79:A:LEU:HA	8	0.52
(1,7072)	1:152:A:LEU:HB3	1:152:A:LEU:HD12	4	0.52
(1,7072)	1:152:A:LEU:HB3	1:152:A:LEU:HD12	7	0.52
(1,7072)	1:152:A:LEU:HB3	1:152:A:LEU:HD11	10	0.52
(1,6806)	1:135:A:THR:HG23	1:134:A:LYS:HE2	4	0.52
(1,6775)	1:133:A:ILE:HG21	1:80:A:LYS:H	6	0.52
(1,6751)	1:133:A:ILE:HD12	1:132:A:HIS:HA	7	0.52
(1,6708)	1:131:A:LEU:HD23	1:88:A:ASP:HA	6	0.52
(1,6702)	1:131:A:LEU:HD22	1:130:A:PHE:HA	4	0.52
(1,6701)	1:131:A:LEU:HD22	1:132:A:HIS:HA	3	0.52
(1,6701)	1:131:A:LEU:HD23	1:132:A:HIS:HA	8	0.52
(1,6610)	1:127:A:THR:HA	1:127:A:THR:HG23	4	0.52
(1,6599)	1:127:A:THR:H	1:125:A:VAL:HG13	4	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6599)	1:127:A:THR:H	1:125:A:VAL:HG13	7	0.52
(1,6507)	1:116:A:THR:HA	1:116:A:THR:HG23	6	0.52
(1,6507)	1:116:A:THR:HA	1:116:A:THR:HG23	7	0.52
(1,6507)	1:116:A:THR:HA	1:116:A:THR:HG22	8	0.52
(1,6208)	1:93:A:MET:HB2	1:91:A:LEU:HD11	5	0.52
(1,6148)	1:91:A:LEU:HD12	1:90:A:LEU:H	3	0.52
(1,6116)	1:90:A:LEU:HD23	1:130:A:PHE:HZ	2	0.52
(1,6116)	1:90:A:LEU:HD21	1:130:A:PHE:HZ	8	0.52
(1,6091)	1:90:A:LEU:HD13	1:148:A:VAL:H	3	0.52
(1,6045)	1:89:A:ILE:HD12	1:88:A:ASP:HB2	4	0.52
(1,6045)	1:89:A:ILE:HD11	1:88:A:ASP:HB2	10	0.52
(1,5722)	1:75:A:ILE:HD12	1:37:A:TYR:HB2	6	0.52
(1,5714)	1:75:A:ILE:HA	1:76:A:LEU:HD12	5	0.52
(1,5714)	1:75:A:ILE:HA	1:76:A:LEU:HD12	8	0.52
(1,5628)	1:70:A:GLU:HB2	1:73:A:ALA:HB1	8	0.52
(1,5439)	1:63:A:MET:HE1	1:90:A:LEU:HB2	1	0.52
(1,5439)	1:63:A:MET:HE1	1:90:A:LEU:HB2	4	0.52
(1,5431)	1:52:A:VAL:HG21	1:63:A:MET:HB3	9	0.52
(1,5412)	1:61:A:ALA:HB2	1:40:A:LEU:HD21	7	0.52
(1,5203)	1:46:A:VAL:HG12	1:47:A:GLU:HG2	4	0.52
(1,5203)	1:46:A:VAL:HG12	1:47:A:GLU:HG2	7	0.52
(1,5029)	1:38:A:ILE:HG21	1:40:A:LEU:HD22	5	0.52
(1,4990)	1:38:A:ILE:HD12	1:30:A:ILE:HG13	2	0.52
(1,4883)	1:30:A:ILE:HG23	1:82:A:GLN:H	5	0.52
(1,4883)	1:30:A:ILE:HG21	1:82:A:GLN:H	6	0.52
(1,4827)	1:28:A:THR:HG22	1:28:A:THR:HG23	1	0.52
(1,4827)	1:28:A:THR:HG21	1:28:A:THR:HG22	2	0.52
(1,4827)	1:28:A:THR:HG22	1:28:A:THR:HG23	3	0.52
(1,4827)	1:28:A:THR:HG22	1:28:A:THR:HG23	4	0.52
(1,4827)	1:28:A:THR:HG21	1:28:A:THR:HG23	5	0.52
(1,4827)	1:28:A:THR:HG21	1:28:A:THR:HG23	6	0.52
(1,4827)	1:28:A:THR:HG22	1:28:A:THR:HG23	7	0.52
(1,4827)	1:28:A:THR:HG22	1:28:A:THR:HG23	8	0.52
(1,4827)	1:28:A:THR:HG22	1:28:A:THR:HG23	9	0.52
(1,4827)	1:28:A:THR:HG21	1:28:A:THR:HG23	10	0.52
(1,4765)	1:152:A:LEU:H	1:64:A:ILE:HA	4	0.52
(1,4735)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	6	0.52
(1,4732)	1:66:A:ILE:H	1:154:A:LYS:HE3	8	0.52
(1,4720)	1:39:A:PHE:H	1:30:A:ILE:HB	5	0.52
(1,4691)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	1	0.52
(1,4691)	1:61:A:ALA:HB3	1:29:A:TRP:HZ2	8	0.52
(1,4626)	1:66:A:ILE:HG21	1:113:A:ASP:H	5	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4594)	1:40:A:LEU:HD11	1:56:A:CYS:HB2	3	0.52
(1,4594)	1:40:A:LEU:HD13	1:56:A:CYS:HB2	6	0.52
(1,4594)	1:40:A:LEU:HD11	1:56:A:CYS:HB2	7	0.52
(1,4592)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	6	0.52
(1,4586)	1:152:A:LEU:H	1:64:A:ILE:HA	4	0.52
(1,4556)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	6	0.52
(1,4553)	1:66:A:ILE:H	1:154:A:LYS:HE3	8	0.52
(1,4541)	1:39:A:PHE:H	1:30:A:ILE:HB	5	0.52
(1,4512)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	1	0.52
(1,4512)	1:61:A:ALA:HB3	1:29:A:TRP:HZ2	8	0.52
(1,4447)	1:66:A:ILE:HG21	1:113:A:ASP:H	5	0.52
(1,4415)	1:40:A:LEU:HD11	1:56:A:CYS:HB2	3	0.52
(1,4415)	1:40:A:LEU:HD13	1:56:A:CYS:HB2	6	0.52
(1,4415)	1:40:A:LEU:HD11	1:56:A:CYS:HB2	7	0.52
(1,4413)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	6	0.52
(1,4317)	1:153:A:CYS:H	1:75:A:ILE:HG22	5	0.52
(1,4286)	1:149:A:GLU:H	1:43:A:ALA:HB2	7	0.52
(1,3899)	1:110:A:MET:H	1:103:A:LYS:HG2	5	0.52
(1,3630)	1:83:A:TRP:HE1	1:78:A:THR:HG22	3	0.52
(1,3466)	1:72:A:ASN:H	1:73:A:ALA:HB2	4	0.52
(1,3063)	1:37:A:TYR:H	1:30:A:ILE:HD12	10	0.52
(1,2943)	1:30:A:ILE:H	1:152:A:LEU:HD13	10	0.52
(1,2727)	1:91:A:LEU:HD22	1:104:A:TRP:HZ2	1	0.52
(1,2596)	1:67:A:HIS:HD2	1:66:A:ILE:HG22	9	0.52
(1,2538)	1:32:A:PHE:H	1:32:A:PHE:HD1	3	0.52
(1,2538)	1:32:A:PHE:H	1:32:A:PHE:HD1	10	0.52
(1,2317)	1:152:A:LEU:HD21	1:79:A:LEU:HA	8	0.52
(1,2305)	1:152:A:LEU:HB3	1:152:A:LEU:HD12	4	0.52
(1,2305)	1:152:A:LEU:HB3	1:152:A:LEU:HD12	7	0.52
(1,2305)	1:152:A:LEU:HB3	1:152:A:LEU:HD11	10	0.52
(1,2039)	1:135:A:THR:HG23	1:134:A:LYS:HE2	4	0.52
(1,2008)	1:133:A:ILE:HG21	1:80:A:LYS:H	6	0.52
(1,1984)	1:133:A:ILE:HD12	1:132:A:HIS:HA	7	0.52
(1,1941)	1:131:A:LEU:HD23	1:88:A:ASP:HA	6	0.52
(1,1935)	1:131:A:LEU:HD22	1:130:A:PHE:HA	4	0.52
(1,1934)	1:131:A:LEU:HD22	1:132:A:HIS:HA	3	0.52
(1,1934)	1:131:A:LEU:HD23	1:132:A:HIS:HA	8	0.52
(1,1843)	1:127:A:THR:HA	1:127:A:THR:HG23	4	0.52
(1,1832)	1:127:A:THR:H	1:125:A:VAL:HG13	4	0.52
(1,1832)	1:127:A:THR:H	1:125:A:VAL:HG13	7	0.52
(1,1740)	1:116:A:THR:HA	1:116:A:THR:HG23	6	0.52
(1,1740)	1:116:A:THR:HA	1:116:A:THR:HG23	7	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1740)	1:116:A:THR:HA	1:116:A:THR:HG22	8	0.52
(1,1441)	1:93:A:MET:HB2	1:91:A:LEU:HD11	5	0.52
(1,1381)	1:91:A:LEU:HD12	1:90:A:LEU:H	3	0.52
(1,1349)	1:90:A:LEU:HD23	1:130:A:PHE:HZ	2	0.52
(1,1349)	1:90:A:LEU:HD21	1:130:A:PHE:HZ	8	0.52
(1,1324)	1:90:A:LEU:HD13	1:148:A:VAL:H	3	0.52
(1,1278)	1:89:A:ILE:HD12	1:88:A:ASP:HB2	4	0.52
(1,1278)	1:89:A:ILE:HD11	1:88:A:ASP:HB2	10	0.52
(1,955)	1:75:A:ILE:HD12	1:37:A:TYR:HB2	6	0.52
(1,947)	1:75:A:ILE:HA	1:76:A:LEU:HD12	5	0.52
(1,947)	1:75:A:ILE:HA	1:76:A:LEU:HD12	8	0.52
(1,861)	1:70:A:GLU:HB2	1:73:A:ALA:HB1	8	0.52
(1,672)	1:63:A:MET:HE1	1:90:A:LEU:HB2	1	0.52
(1,672)	1:63:A:MET:HE1	1:90:A:LEU:HB2	4	0.52
(1,664)	1:52:A:VAL:HG21	1:63:A:MET:HB3	9	0.52
(1,645)	1:61:A:ALA:HB2	1:40:A:LEU:HD21	7	0.52
(1,436)	1:46:A:VAL:HG12	1:47:A:GLU:HG2	4	0.52
(1,436)	1:46:A:VAL:HG12	1:47:A:GLU:HG2	7	0.52
(1,262)	1:38:A:ILE:HG21	1:40:A:LEU:HD22	5	0.52
(1,223)	1:38:A:ILE:HD12	1:30:A:ILE:HG13	2	0.52
(1,116)	1:30:A:ILE:HG23	1:82:A:GLN:H	5	0.52
(1,116)	1:30:A:ILE:HG21	1:82:A:GLN:H	6	0.52
(1,60)	1:28:A:THR:HG22	1:28:A:THR:HG23	1	0.52
(1,60)	1:28:A:THR:HG21	1:28:A:THR:HG22	2	0.52
(1,60)	1:28:A:THR:HG22	1:28:A:THR:HG23	3	0.52
(1,60)	1:28:A:THR:HG22	1:28:A:THR:HG23	4	0.52
(1,60)	1:28:A:THR:HG21	1:28:A:THR:HG23	5	0.52
(1,60)	1:28:A:THR:HG21	1:28:A:THR:HG23	6	0.52
(1,60)	1:28:A:THR:HG22	1:28:A:THR:HG23	7	0.52
(1,60)	1:28:A:THR:HG22	1:28:A:THR:HG23	8	0.52
(1,60)	1:28:A:THR:HG22	1:28:A:THR:HG23	9	0.52
(1,60)	1:28:A:THR:HG21	1:28:A:THR:HG23	10	0.52
(1,9155)	1:157:A:ILE:H	1:157:A:ILE:HD12	9	0.51
(1,8397)	1:83:A:TRP:HE1	1:78:A:THR:HG23	10	0.51
(1,7830)	1:37:A:TYR:H	1:30:A:ILE:HD12	1	0.51
(1,7830)	1:37:A:TYR:H	1:30:A:ILE:HD13	8	0.51
(1,7710)	1:30:A:ILE:H	1:152:A:LEU:HD11	3	0.51
(1,7305)	1:32:A:PHE:H	1:32:A:PHE:HD1	2	0.51
(1,7172)	1:156:A:ALA:HB1	1:35:A:SER:HB2	10	0.51
(1,7072)	1:152:A:LEU:HB3	1:152:A:LEU:HD11	1	0.51
(1,7072)	1:152:A:LEU:HB3	1:152:A:LEU:HD11	2	0.51
(1,7072)	1:152:A:LEU:HB3	1:152:A:LEU:HD12	3	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7072)	1:152:A:LEU:HB3	1:152:A:LEU:HD13	6	0.51
(1,7072)	1:152:A:LEU:HB3	1:152:A:LEU:HD11	8	0.51
(1,7072)	1:152:A:LEU:HB3	1:152:A:LEU:HD13	9	0.51
(1,6751)	1:133:A:ILE:HD12	1:132:A:HIS:HA	1	0.51
(1,6751)	1:133:A:ILE:HD11	1:132:A:HIS:HA	2	0.51
(1,6701)	1:131:A:LEU:HD21	1:132:A:HIS:HA	1	0.51
(1,6652)	1:128:A:CYS:HB2	1:129:A:ALA:HB2	2	0.51
(1,6650)	1:129:A:ALA:HB1	1:104:A:TRP:HH2	10	0.51
(1,6610)	1:127:A:THR:HA	1:127:A:THR:HG22	2	0.51
(1,6599)	1:127:A:THR:H	1:125:A:VAL:HG12	3	0.51
(1,6507)	1:116:A:THR:HA	1:116:A:THR:HG22	4	0.51
(1,6507)	1:116:A:THR:HA	1:116:A:THR:HG22	5	0.51
(1,6507)	1:116:A:THR:HA	1:116:A:THR:HG22	9	0.51
(1,6507)	1:116:A:THR:HA	1:116:A:THR:HG21	10	0.51
(1,6166)	1:92:A:GLY:H	1:91:A:LEU:HD23	1	0.51
(1,6154)	1:91:A:LEU:HD13	1:104:A:TRP:HZ2	6	0.51
(1,6112)	1:90:A:LEU:HB2	1:90:A:LEU:HD22	9	0.51
(1,5857)	1:79:A:LEU:HD11	1:81:A:LYS:H	4	0.51
(1,5847)	1:79:A:LEU:HD11	1:86:A:PRO:HB3	9	0.51
(1,5742)	1:75:A:ILE:HG23	1:78:A:THR:H	9	0.51
(1,5714)	1:75:A:ILE:HA	1:76:A:LEU:HD11	1	0.51
(1,5714)	1:75:A:ILE:HA	1:76:A:LEU:HD12	9	0.51
(1,5677)	1:72:A:ASN:HB2	1:73:A:ALA:HB2	7	0.51
(1,5576)	1:66:A:ILE:HG23	1:91:A:LEU:HD22	1	0.51
(1,5563)	1:66:A:ILE:HG22	1:67:A:HIS:HB2	1	0.51
(1,5542)	1:66:A:ILE:HD13	1:71:A:GLU:HG3	8	0.51
(1,5473)	1:64:A:ILE:HD13	1:130:A:PHE:HA	6	0.51
(1,5439)	1:63:A:MET:HE2	1:90:A:LEU:HB2	3	0.51
(1,5203)	1:46:A:VAL:HG13	1:47:A:GLU:HG2	8	0.51
(1,5164)	1:45:A:LYS:HG3	1:46:A:VAL:HG21	3	0.51
(1,5118)	1:40:A:LEU:HD12	1:42:A:GLU:HG2	3	0.51
(1,4975)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	9	0.51
(1,4734)	1:71:A:GLU:H	1:73:A:ALA:HB1	1	0.51
(1,4728)	1:53:A:ARG:HE	1:62:A:ASP:HB2	10	0.51
(1,4726)	1:45:A:LYS:H	1:47:A:GLU:HG2	2	0.51
(1,4726)	1:45:A:LYS:H	1:47:A:GLU:HG2	7	0.51
(1,4726)	1:45:A:LYS:H	1:47:A:GLU:HG2	10	0.51
(1,4663)	1:125:A:VAL:HG12	1:142:A:ASN:HA	7	0.51
(1,4635)	1:75:A:ILE:HD11	1:78:A:THR:H	7	0.51
(1,4626)	1:66:A:ILE:HG22	1:113:A:ASP:H	6	0.51
(1,4594)	1:40:A:LEU:HD11	1:56:A:CYS:HB2	8	0.51
(1,4592)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	9	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4555)	1:71:A:GLU:H	1:73:A:ALA:HB1	1	0.51
(1,4549)	1:53:A:ARG:HE	1:62:A:ASP:HB2	10	0.51
(1,4547)	1:45:A:LYS:H	1:47:A:GLU:HG2	2	0.51
(1,4547)	1:45:A:LYS:H	1:47:A:GLU:HG2	7	0.51
(1,4547)	1:45:A:LYS:H	1:47:A:GLU:HG2	10	0.51
(1,4484)	1:125:A:VAL:HG12	1:142:A:ASN:HA	7	0.51
(1,4456)	1:75:A:ILE:HD11	1:78:A:THR:H	7	0.51
(1,4447)	1:66:A:ILE:HG22	1:113:A:ASP:H	6	0.51
(1,4415)	1:40:A:LEU:HD11	1:56:A:CYS:HB2	8	0.51
(1,4413)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	9	0.51
(1,4388)	1:157:A:ILE:H	1:157:A:ILE:HD12	9	0.51
(1,3630)	1:83:A:TRP:HE1	1:78:A:THR:HG23	10	0.51
(1,3063)	1:37:A:TYR:H	1:30:A:ILE:HD12	1	0.51
(1,3063)	1:37:A:TYR:H	1:30:A:ILE:HD13	8	0.51
(1,2943)	1:30:A:ILE:H	1:152:A:LEU:HD11	3	0.51
(1,2538)	1:32:A:PHE:H	1:32:A:PHE:HD1	2	0.51
(1,2405)	1:156:A:ALA:HB1	1:35:A:SER:HB2	10	0.51
(1,2305)	1:152:A:LEU:HB3	1:152:A:LEU:HD11	1	0.51
(1,2305)	1:152:A:LEU:HB3	1:152:A:LEU:HD11	2	0.51
(1,2305)	1:152:A:LEU:HB3	1:152:A:LEU:HD12	3	0.51
(1,2305)	1:152:A:LEU:HB3	1:152:A:LEU:HD13	6	0.51
(1,2305)	1:152:A:LEU:HB3	1:152:A:LEU:HD11	8	0.51
(1,2305)	1:152:A:LEU:HB3	1:152:A:LEU:HD13	9	0.51
(1,1984)	1:133:A:ILE:HD12	1:132:A:HIS:HA	1	0.51
(1,1984)	1:133:A:ILE:HD11	1:132:A:HIS:HA	2	0.51
(1,1934)	1:131:A:LEU:HD21	1:132:A:HIS:HA	1	0.51
(1,1885)	1:128:A:CYS:HB2	1:129:A:ALA:HB2	2	0.51
(1,1883)	1:129:A:ALA:HB1	1:104:A:TRP:HH2	10	0.51
(1,1843)	1:127:A:THR:HA	1:127:A:THR:HG22	2	0.51
(1,1832)	1:127:A:THR:H	1:125:A:VAL:HG12	3	0.51
(1,1740)	1:116:A:THR:HA	1:116:A:THR:HG22	4	0.51
(1,1740)	1:116:A:THR:HA	1:116:A:THR:HG22	5	0.51
(1,1740)	1:116:A:THR:HA	1:116:A:THR:HG22	9	0.51
(1,1740)	1:116:A:THR:HA	1:116:A:THR:HG21	10	0.51
(1,1399)	1:92:A:GLY:H	1:91:A:LEU:HD23	1	0.51
(1,1387)	1:91:A:LEU:HD13	1:104:A:TRP:HZ2	6	0.51
(1,1345)	1:90:A:LEU:HB2	1:90:A:LEU:HD22	9	0.51
(1,1090)	1:79:A:LEU:HD11	1:81:A:LYS:H	4	0.51
(1,1080)	1:79:A:LEU:HD11	1:86:A:PRO:HB3	9	0.51
(1,975)	1:75:A:ILE:HG23	1:78:A:THR:H	9	0.51
(1,947)	1:75:A:ILE:HA	1:76:A:LEU:HD11	1	0.51
(1,947)	1:75:A:ILE:HA	1:76:A:LEU:HD12	9	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,910)	1:72:A:ASN:HB2	1:73:A:ALA:HB2	7	0.51
(1,809)	1:66:A:ILE:HG23	1:91:A:LEU:HD22	1	0.51
(1,796)	1:66:A:ILE:HG22	1:67:A:HIS:HB2	1	0.51
(1,775)	1:66:A:ILE:HD13	1:71:A:GLU:HG3	8	0.51
(1,706)	1:64:A:ILE:HD13	1:130:A:PHE:HA	6	0.51
(1,672)	1:63:A:MET:HE2	1:90:A:LEU:HB2	3	0.51
(1,436)	1:46:A:VAL:HG13	1:47:A:GLU:HG2	8	0.51
(1,397)	1:45:A:LYS:HG3	1:46:A:VAL:HG21	3	0.51
(1,351)	1:40:A:LEU:HD12	1:42:A:GLU:HG2	3	0.51
(1,208)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	9	0.51
(1,9159)	1:159:A:TYR:H	1:157:A:ILE:HG21	4	0.5
(1,8439)	1:89:A:ILE:H	1:133:A:ILE:HD11	4	0.5
(1,8034)	1:55:A:GLN:HE22	1:40:A:LEU:HD22	1	0.5
(1,7305)	1:32:A:PHE:H	1:32:A:PHE:HD1	7	0.5
(1,6751)	1:133:A:ILE:HD13	1:132:A:HIS:HA	8	0.5
(1,6751)	1:133:A:ILE:HD12	1:132:A:HIS:HA	9	0.5
(1,6751)	1:133:A:ILE:HD12	1:132:A:HIS:HA	10	0.5
(1,6718)	1:136:A:GLY:H	1:131:A:LEU:HD21	2	0.5
(1,6718)	1:136:A:GLY:H	1:131:A:LEU:HD23	9	0.5
(1,6618)	1:127:A:THR:HG22	1:125:A:VAL:HA	6	0.5
(1,6610)	1:127:A:THR:HA	1:127:A:THR:HG23	1	0.5
(1,6610)	1:127:A:THR:HA	1:127:A:THR:HG21	8	0.5
(1,6599)	1:127:A:THR:H	1:125:A:VAL:HG12	6	0.5
(1,6599)	1:127:A:THR:H	1:125:A:VAL:HG13	8	0.5
(1,6565)	1:124:A:LEU:HB3	1:124:A:LEU:HD21	1	0.5
(1,6565)	1:124:A:LEU:HB3	1:124:A:LEU:HD21	3	0.5
(1,6565)	1:124:A:LEU:HB3	1:124:A:LEU:HD23	6	0.5
(1,6565)	1:124:A:LEU:HB3	1:124:A:LEU:HD23	7	0.5
(1,6507)	1:116:A:THR:HA	1:116:A:THR:HG22	2	0.5
(1,6264)	1:98:A:ASP:H	1:97:A:THR:HG22	10	0.5
(1,6179)	1:91:A:LEU:HD23	1:114:A:LYS:H	10	0.5
(1,6147)	1:91:A:LEU:HD12	1:66:A:ILE:HB	5	0.5
(1,6116)	1:90:A:LEU:HD22	1:130:A:PHE:HZ	5	0.5
(1,6116)	1:90:A:LEU:HD23	1:130:A:PHE:HZ	7	0.5
(1,6076)	1:90:A:LEU:HA	1:90:A:LEU:HD12	4	0.5
(1,6049)	1:89:A:ILE:HD12	1:89:A:ILE:HD11	4	0.5
(1,6049)	1:89:A:ILE:HD12	1:89:A:ILE:HD11	6	0.5
(1,6049)	1:89:A:ILE:HD12	1:89:A:ILE:HD11	7	0.5
(1,6049)	1:89:A:ILE:HD12	1:89:A:ILE:HD11	8	0.5
(1,6045)	1:89:A:ILE:HD11	1:88:A:ASP:HB2	9	0.5
(1,5857)	1:79:A:LEU:HD12	1:81:A:LYS:H	2	0.5
(1,5742)	1:75:A:ILE:HG21	1:78:A:THR:H	6	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5714)	1:75:A:ILE:HA	1:76:A:LEU:HD12	3	0.5
(1,5439)	1:63:A:MET:HE2	1:90:A:LEU:HB2	6	0.5
(1,5254)	1:49:A:ILE:HG21	1:105:A:PHE:HD2	3	0.5
(1,4940)	1:36:A:CYS:HA	1:74:A:PHE:HE1	2	0.5
(1,4883)	1:30:A:ILE:HG22	1:82:A:GLN:H	4	0.5
(1,4734)	1:71:A:GLU:H	1:73:A:ALA:HB1	3	0.5
(1,4728)	1:53:A:ARG:HE	1:62:A:ASP:HB2	6	0.5
(1,4594)	1:40:A:LEU:HD13	1:56:A:CYS:HB2	10	0.5
(1,4555)	1:71:A:GLU:H	1:73:A:ALA:HB1	3	0.5
(1,4549)	1:53:A:ARG:HE	1:62:A:ASP:HB2	6	0.5
(1,4415)	1:40:A:LEU:HD13	1:56:A:CYS:HB2	10	0.5
(1,4392)	1:159:A:TYR:H	1:157:A:ILE:HG21	4	0.5
(1,3672)	1:89:A:ILE:H	1:133:A:ILE:HD11	4	0.5
(1,3267)	1:55:A:GLN:HE22	1:40:A:LEU:HD22	1	0.5
(1,2538)	1:32:A:PHE:H	1:32:A:PHE:HD1	7	0.5
(1,1984)	1:133:A:ILE:HD13	1:132:A:HIS:HA	8	0.5
(1,1984)	1:133:A:ILE:HD12	1:132:A:HIS:HA	9	0.5
(1,1984)	1:133:A:ILE:HD12	1:132:A:HIS:HA	10	0.5
(1,1951)	1:136:A:GLY:H	1:131:A:LEU:HD21	2	0.5
(1,1951)	1:136:A:GLY:H	1:131:A:LEU:HD23	9	0.5
(1,1851)	1:127:A:THR:HG22	1:125:A:VAL:HA	6	0.5
(1,1843)	1:127:A:THR:HA	1:127:A:THR:HG23	1	0.5
(1,1843)	1:127:A:THR:HA	1:127:A:THR:HG21	8	0.5
(1,1832)	1:127:A:THR:H	1:125:A:VAL:HG12	6	0.5
(1,1832)	1:127:A:THR:H	1:125:A:VAL:HG13	8	0.5
(1,1798)	1:124:A:LEU:HB3	1:124:A:LEU:HD21	1	0.5
(1,1798)	1:124:A:LEU:HB3	1:124:A:LEU:HD21	3	0.5
(1,1798)	1:124:A:LEU:HB3	1:124:A:LEU:HD23	6	0.5
(1,1798)	1:124:A:LEU:HB3	1:124:A:LEU:HD23	7	0.5
(1,1740)	1:116:A:THR:HA	1:116:A:THR:HG22	2	0.5
(1,1497)	1:98:A:ASP:H	1:97:A:THR:HG22	10	0.5
(1,1412)	1:91:A:LEU:HD23	1:114:A:LYS:H	10	0.5
(1,1380)	1:91:A:LEU:HD12	1:66:A:ILE:HB	5	0.5
(1,1349)	1:90:A:LEU:HD22	1:130:A:PHE:HZ	5	0.5
(1,1349)	1:90:A:LEU:HD23	1:130:A:PHE:HZ	7	0.5
(1,1309)	1:90:A:LEU:HA	1:90:A:LEU:HD12	4	0.5
(1,1282)	1:89:A:ILE:HD12	1:89:A:ILE:HD11	4	0.5
(1,1282)	1:89:A:ILE:HD12	1:89:A:ILE:HD11	6	0.5
(1,1282)	1:89:A:ILE:HD12	1:89:A:ILE:HD11	7	0.5
(1,1282)	1:89:A:ILE:HD12	1:89:A:ILE:HD11	8	0.5
(1,1278)	1:89:A:ILE:HD11	1:88:A:ASP:HB2	9	0.5
(1,1090)	1:79:A:LEU:HD12	1:81:A:LYS:H	2	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,975)	1:75:A:ILE:HG21	1:78:A:THR:H	6	0.5
(1,947)	1:75:A:ILE:HA	1:76:A:LEU:HD12	3	0.5
(1,672)	1:63:A:MET:HE2	1:90:A:LEU:HB2	6	0.5
(1,487)	1:49:A:ILE:HG21	1:105:A:PHE:HD2	3	0.5
(1,173)	1:36:A:CYS:HA	1:74:A:PHE:HE1	2	0.5
(1,116)	1:30:A:ILE:HG22	1:82:A:GLN:H	4	0.5
(1,9159)	1:159:A:TYR:H	1:157:A:ILE:HG21	2	0.49
(1,9053)	1:149:A:GLU:H	1:43:A:ALA:HB2	5	0.49
(1,8983)	1:140:A:LYS:H	1:124:A:LEU:HD22	7	0.49
(1,8291)	1:75:A:ILE:H	1:32:A:PHE:HD2	9	0.49
(1,8273)	1:73:A:ALA:H	1:66:A:ILE:HG21	2	0.49
(1,8133)	1:63:A:MET:H	1:63:A:MET:HE3	6	0.49
(1,8133)	1:63:A:MET:H	1:63:A:MET:HE3	7	0.49
(1,7830)	1:37:A:TYR:H	1:30:A:ILE:HD12	3	0.49
(1,7710)	1:30:A:ILE:H	1:152:A:LEU:HD12	5	0.49
(1,7710)	1:30:A:ILE:H	1:152:A:LEU:HD12	6	0.49
(1,7710)	1:30:A:ILE:H	1:152:A:LEU:HD13	8	0.49
(1,7710)	1:30:A:ILE:H	1:152:A:LEU:HD12	9	0.49
(1,6751)	1:133:A:ILE:HD12	1:132:A:HIS:HA	5	0.49
(1,6720)	1:131:A:LEU:HD22	1:138:A:TRP:HA	9	0.49
(1,6701)	1:131:A:LEU:HD22	1:132:A:HIS:HA	2	0.49
(1,6701)	1:131:A:LEU:HD21	1:132:A:HIS:HA	10	0.49
(1,6681)	1:131:A:LEU:HD11	1:89:A:ILE:H	7	0.49
(1,6652)	1:128:A:CYS:HB2	1:129:A:ALA:HB1	8	0.49
(1,6610)	1:127:A:THR:HA	1:127:A:THR:HG23	3	0.49
(1,6610)	1:127:A:THR:HA	1:127:A:THR:HG23	5	0.49
(1,6610)	1:127:A:THR:HA	1:127:A:THR:HG23	9	0.49
(1,6596)	1:125:A:VAL:HG12	1:97:A:THR:HG23	7	0.49
(1,6574)	1:124:A:LEU:HD11	1:124:A:LEU:HD13	1	0.49
(1,6574)	1:124:A:LEU:HD12	1:124:A:LEU:HD13	2	0.49
(1,6574)	1:124:A:LEU:HD12	1:124:A:LEU:HD11	3	0.49
(1,6574)	1:124:A:LEU:HD11	1:124:A:LEU:HD13	4	0.49
(1,6574)	1:124:A:LEU:HD12	1:124:A:LEU:HD13	5	0.49
(1,6574)	1:124:A:LEU:HD12	1:124:A:LEU:HD13	6	0.49
(1,6574)	1:124:A:LEU:HD11	1:124:A:LEU:HD13	7	0.49
(1,6574)	1:124:A:LEU:HD12	1:124:A:LEU:HD11	8	0.49
(1,6574)	1:124:A:LEU:HD12	1:124:A:LEU:HD13	9	0.49
(1,6574)	1:124:A:LEU:HD11	1:124:A:LEU:HD13	10	0.49
(1,6567)	1:124:A:LEU:HD12	1:95:A:TYR:HD1	4	0.49
(1,6567)	1:124:A:LEU:HD13	1:95:A:TYR:HD1	9	0.49
(1,6565)	1:124:A:LEU:HB3	1:124:A:LEU:HD23	8	0.49
(1,6565)	1:124:A:LEU:HB3	1:124:A:LEU:HD22	10	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6271)	1:97:A:THR:HG21	1:97:A:THR:HG22	1	0.49
(1,6271)	1:97:A:THR:HG21	1:97:A:THR:HG22	3	0.49
(1,6271)	1:97:A:THR:HG21	1:97:A:THR:HG23	4	0.49
(1,6271)	1:97:A:THR:HG21	1:97:A:THR:HG23	5	0.49
(1,6264)	1:98:A:ASP:H	1:97:A:THR:HG23	4	0.49
(1,6179)	1:91:A:LEU:HD22	1:114:A:LYS:H	6	0.49
(1,6145)	1:91:A:LEU:HD11	1:65:A:SER:HA	10	0.49
(1,6076)	1:90:A:LEU:HA	1:90:A:LEU:HD12	9	0.49
(1,6049)	1:89:A:ILE:HD11	1:89:A:ILE:HD13	1	0.49
(1,6049)	1:89:A:ILE:HD11	1:89:A:ILE:HD13	2	0.49
(1,6049)	1:89:A:ILE:HD11	1:89:A:ILE:HD13	5	0.49
(1,6049)	1:89:A:ILE:HD11	1:89:A:ILE:HD13	9	0.49
(1,5869)	1:79:A:LEU:HD21	1:75:A:ILE:H	7	0.49
(1,5860)	1:79:A:LEU:HD11	1:89:A:ILE:H	3	0.49
(1,5744)	1:75:A:ILE:HG22	1:65:A:SER:H	6	0.49
(1,5688)	1:73:A:ALA:HB3	1:114:A:LYS:HE3	4	0.49
(1,5688)	1:73:A:ALA:HB2	1:114:A:LYS:HE3	8	0.49
(1,5677)	1:72:A:ASN:HB2	1:73:A:ALA:HB2	8	0.49
(1,5527)	1:66:A:ILE:HA	1:154:A:LYS:HD2	3	0.49
(1,5439)	1:63:A:MET:HE3	1:90:A:LEU:HB2	8	0.49
(1,4975)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	4	0.49
(1,4975)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	8	0.49
(1,4890)	1:31:A:GLN:HB2	1:157:A:ILE:HD11	9	0.49
(1,4734)	1:71:A:GLU:H	1:73:A:ALA:HB2	2	0.49
(1,4734)	1:71:A:GLU:H	1:73:A:ALA:HB1	5	0.49
(1,4734)	1:71:A:GLU:H	1:73:A:ALA:HB1	10	0.49
(1,4726)	1:45:A:LYS:H	1:47:A:GLU:HG2	1	0.49
(1,4726)	1:45:A:LYS:H	1:47:A:GLU:HG2	6	0.49
(1,4663)	1:125:A:VAL:HG12	1:142:A:ASN:HA	4	0.49
(1,4663)	1:125:A:VAL:HG13	1:142:A:ASN:HA	9	0.49
(1,4635)	1:75:A:ILE:HD11	1:78:A:THR:H	2	0.49
(1,4635)	1:75:A:ILE:HD13	1:78:A:THR:H	5	0.49
(1,4596)	1:40:A:LEU:HD12	1:59:A:HIS:HB3	5	0.49
(1,4596)	1:40:A:LEU:HD13	1:59:A:HIS:HB3	9	0.49
(1,4555)	1:71:A:GLU:H	1:73:A:ALA:HB2	2	0.49
(1,4555)	1:71:A:GLU:H	1:73:A:ALA:HB1	5	0.49
(1,4555)	1:71:A:GLU:H	1:73:A:ALA:HB1	10	0.49
(1,4547)	1:45:A:LYS:H	1:47:A:GLU:HG2	1	0.49
(1,4547)	1:45:A:LYS:H	1:47:A:GLU:HG2	6	0.49
(1,4484)	1:125:A:VAL:HG12	1:142:A:ASN:HA	4	0.49
(1,4484)	1:125:A:VAL:HG13	1:142:A:ASN:HA	9	0.49
(1,4456)	1:75:A:ILE:HD11	1:78:A:THR:H	2	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4456)	1:75:A:ILE:HD13	1:78:A:THR:H	5	0.49
(1,4417)	1:40:A:LEU:HD12	1:59:A:HIS:HB3	5	0.49
(1,4417)	1:40:A:LEU:HD13	1:59:A:HIS:HB3	9	0.49
(1,4392)	1:159:A:TYR:H	1:157:A:ILE:HG21	2	0.49
(1,4286)	1:149:A:GLU:H	1:43:A:ALA:HB2	5	0.49
(1,4216)	1:140:A:LYS:H	1:124:A:LEU:HD22	7	0.49
(1,3524)	1:75:A:ILE:H	1:32:A:PHE:HD2	9	0.49
(1,3506)	1:73:A:ALA:H	1:66:A:ILE:HG21	2	0.49
(1,3366)	1:63:A:MET:H	1:63:A:MET:HE3	6	0.49
(1,3366)	1:63:A:MET:H	1:63:A:MET:HE3	7	0.49
(1,3063)	1:37:A:TYR:H	1:30:A:ILE:HD12	3	0.49
(1,2943)	1:30:A:ILE:H	1:152:A:LEU:HD12	5	0.49
(1,2943)	1:30:A:ILE:H	1:152:A:LEU:HD12	6	0.49
(1,2943)	1:30:A:ILE:H	1:152:A:LEU:HD13	8	0.49
(1,2943)	1:30:A:ILE:H	1:152:A:LEU:HD12	9	0.49
(1,1984)	1:133:A:ILE:HD12	1:132:A:HIS:HA	5	0.49
(1,1953)	1:131:A:LEU:HD22	1:138:A:TRP:HA	9	0.49
(1,1934)	1:131:A:LEU:HD22	1:132:A:HIS:HA	2	0.49
(1,1934)	1:131:A:LEU:HD21	1:132:A:HIS:HA	10	0.49
(1,1914)	1:131:A:LEU:HD11	1:89:A:ILE:H	7	0.49
(1,1885)	1:128:A:CYS:HB2	1:129:A:ALA:HB1	8	0.49
(1,1843)	1:127:A:THR:HA	1:127:A:THR:HG23	3	0.49
(1,1843)	1:127:A:THR:HA	1:127:A:THR:HG23	5	0.49
(1,1843)	1:127:A:THR:HA	1:127:A:THR:HG23	9	0.49
(1,1829)	1:125:A:VAL:HG12	1:97:A:THR:HG23	7	0.49
(1,1807)	1:124:A:LEU:HD11	1:124:A:LEU:HD13	1	0.49
(1,1807)	1:124:A:LEU:HD12	1:124:A:LEU:HD13	2	0.49
(1,1807)	1:124:A:LEU:HD12	1:124:A:LEU:HD11	3	0.49
(1,1807)	1:124:A:LEU:HD11	1:124:A:LEU:HD13	4	0.49
(1,1807)	1:124:A:LEU:HD12	1:124:A:LEU:HD13	5	0.49
(1,1807)	1:124:A:LEU:HD12	1:124:A:LEU:HD13	6	0.49
(1,1807)	1:124:A:LEU:HD11	1:124:A:LEU:HD13	7	0.49
(1,1807)	1:124:A:LEU:HD12	1:124:A:LEU:HD11	8	0.49
(1,1807)	1:124:A:LEU:HD12	1:124:A:LEU:HD13	9	0.49
(1,1807)	1:124:A:LEU:HD11	1:124:A:LEU:HD13	10	0.49
(1,1800)	1:124:A:LEU:HD12	1:95:A:TYR:HD1	4	0.49
(1,1800)	1:124:A:LEU:HD13	1:95:A:TYR:HD1	9	0.49
(1,1798)	1:124:A:LEU:HB3	1:124:A:LEU:HD23	8	0.49
(1,1798)	1:124:A:LEU:HB3	1:124:A:LEU:HD22	10	0.49
(1,1504)	1:97:A:THR:HG21	1:97:A:THR:HG22	1	0.49
(1,1504)	1:97:A:THR:HG21	1:97:A:THR:HG22	3	0.49
(1,1504)	1:97:A:THR:HG21	1:97:A:THR:HG23	4	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1504)	1:97:A:THR:HG21	1:97:A:THR:HG23	5	0.49
(1,1497)	1:98:A:ASP:H	1:97:A:THR:HG23	4	0.49
(1,1412)	1:91:A:LEU:HD22	1:114:A:LYS:H	6	0.49
(1,1378)	1:91:A:LEU:HD11	1:65:A:SER:HA	10	0.49
(1,1309)	1:90:A:LEU:HA	1:90:A:LEU:HD12	9	0.49
(1,1282)	1:89:A:ILE:HD11	1:89:A:ILE:HD13	1	0.49
(1,1282)	1:89:A:ILE:HD11	1:89:A:ILE:HD13	2	0.49
(1,1282)	1:89:A:ILE:HD11	1:89:A:ILE:HD13	5	0.49
(1,1282)	1:89:A:ILE:HD11	1:89:A:ILE:HD13	9	0.49
(1,1102)	1:79:A:LEU:HD21	1:75:A:ILE:H	7	0.49
(1,1093)	1:79:A:LEU:HD11	1:89:A:ILE:H	3	0.49
(1,977)	1:75:A:ILE:HG22	1:65:A:SER:H	6	0.49
(1,921)	1:73:A:ALA:HB3	1:114:A:LYS:HE3	4	0.49
(1,921)	1:73:A:ALA:HB2	1:114:A:LYS:HE3	8	0.49
(1,910)	1:72:A:ASN:HB2	1:73:A:ALA:HB2	8	0.49
(1,760)	1:66:A:ILE:HA	1:154:A:LYS:HD2	3	0.49
(1,672)	1:63:A:MET:HE3	1:90:A:LEU:HB2	8	0.49
(1,208)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	4	0.49
(1,208)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	8	0.49
(1,123)	1:31:A:GLN:HB2	1:157:A:ILE:HD11	9	0.49
(1,9159)	1:159:A:TYR:H	1:157:A:ILE:HG21	8	0.48
(1,9053)	1:149:A:GLU:H	1:43:A:ALA:HB3	4	0.48
(1,9053)	1:149:A:GLU:H	1:43:A:ALA:HB1	9	0.48
(1,8880)	1:133:A:ILE:H	1:131:A:LEU:HD12	1	0.48
(1,8439)	1:89:A:ILE:H	1:133:A:ILE:HD11	2	0.48
(1,8439)	1:89:A:ILE:H	1:133:A:ILE:HD12	10	0.48
(1,8133)	1:63:A:MET:H	1:63:A:MET:HE1	8	0.48
(1,7928)	1:49:A:ILE:H	1:46:A:VAL:HG11	3	0.48
(1,7830)	1:37:A:TYR:H	1:30:A:ILE:HD11	2	0.48
(1,7830)	1:37:A:TYR:H	1:30:A:ILE:HD12	9	0.48
(1,7710)	1:30:A:ILE:H	1:152:A:LEU:HD13	2	0.48
(1,7478)	1:104:A:TRP:HE3	1:91:A:LEU:HD12	6	0.48
(1,7394)	1:74:A:PHE:HZ	1:30:A:ILE:HD11	2	0.48
(1,7268)	1:28:A:THR:HG23	1:29:A:TRP:HD1	7	0.48
(1,7206)	1:157:A:ILE:HG21	1:23:A:ASP:HA	9	0.48
(1,7171)	1:156:A:ALA:HB3	1:154:A:LYS:HE2	4	0.48
(1,7081)	1:78:A:THR:HG21	1:152:A:LEU:HD21	6	0.48
(1,6811)	1:136:A:GLY:H	1:135:A:THR:HG21	3	0.48
(1,6774)	1:133:A:ILE:HG21	1:77:A:ASP:HA	7	0.48
(1,6774)	1:133:A:ILE:HG23	1:77:A:ASP:HA	10	0.48
(1,6751)	1:133:A:ILE:HD12	1:132:A:HIS:HA	3	0.48
(1,6751)	1:133:A:ILE:HD11	1:132:A:HIS:HA	4	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6749)	1:85:A:GLY:HA3	1:133:A:ILE:HD13	2	0.48
(1,6681)	1:131:A:LEU:HD12	1:89:A:ILE:H	9	0.48
(1,6599)	1:127:A:THR:H	1:125:A:VAL:HG13	5	0.48
(1,6599)	1:127:A:THR:H	1:125:A:VAL:HG11	9	0.48
(1,6566)	1:124:A:LEU:HD13	1:120:A:ASP:HB2	1	0.48
(1,6565)	1:124:A:LEU:HB3	1:124:A:LEU:HD21	2	0.48
(1,6565)	1:124:A:LEU:HB3	1:124:A:LEU:HD23	4	0.48
(1,6565)	1:124:A:LEU:HB3	1:124:A:LEU:HD23	5	0.48
(1,6507)	1:116:A:THR:HA	1:116:A:THR:HG21	3	0.48
(1,6271)	1:97:A:THR:HG21	1:97:A:THR:HG23	2	0.48
(1,6271)	1:97:A:THR:HG21	1:97:A:THR:HG22	6	0.48
(1,6271)	1:97:A:THR:HG21	1:97:A:THR:HG22	7	0.48
(1,6271)	1:97:A:THR:HG21	1:97:A:THR:HG23	8	0.48
(1,6271)	1:97:A:THR:HG22	1:97:A:THR:HG23	9	0.48
(1,6271)	1:97:A:THR:HG22	1:97:A:THR:HG23	10	0.48
(1,6264)	1:98:A:ASP:H	1:97:A:THR:HG21	6	0.48
(1,6264)	1:98:A:ASP:H	1:97:A:THR:HG21	7	0.48
(1,6179)	1:91:A:LEU:HD23	1:114:A:LYS:H	2	0.48
(1,6147)	1:91:A:LEU:HD12	1:66:A:ILE:HB	1	0.48
(1,6145)	1:91:A:LEU:HD13	1:65:A:SER:HA	7	0.48
(1,6076)	1:90:A:LEU:HA	1:90:A:LEU:HD13	1	0.48
(1,6076)	1:90:A:LEU:HA	1:90:A:LEU:HD11	5	0.48
(1,6076)	1:90:A:LEU:HA	1:90:A:LEU:HD11	8	0.48
(1,6049)	1:89:A:ILE:HD12	1:89:A:ILE:HD13	3	0.48
(1,6049)	1:89:A:ILE:HD11	1:89:A:ILE:HD13	10	0.48
(1,5857)	1:79:A:LEU:HD12	1:81:A:LYS:H	8	0.48
(1,5744)	1:75:A:ILE:HG23	1:65:A:SER:H	3	0.48
(1,5677)	1:72:A:ASN:HB2	1:73:A:ALA:HB2	3	0.48
(1,5677)	1:72:A:ASN:HB2	1:73:A:ALA:HB2	5	0.48
(1,5439)	1:63:A:MET:HE1	1:90:A:LEU:HB2	5	0.48
(1,5125)	1:43:A:ALA:HB2	1:43:A:ALA:HB3	1	0.48
(1,5125)	1:43:A:ALA:HB1	1:43:A:ALA:HB3	2	0.48
(1,5125)	1:43:A:ALA:HB2	1:43:A:ALA:HB3	3	0.48
(1,5125)	1:43:A:ALA:HB1	1:43:A:ALA:HB3	4	0.48
(1,5125)	1:43:A:ALA:HB1	1:43:A:ALA:HB3	5	0.48
(1,5125)	1:43:A:ALA:HB2	1:43:A:ALA:HB1	6	0.48
(1,5125)	1:43:A:ALA:HB2	1:43:A:ALA:HB1	7	0.48
(1,5125)	1:43:A:ALA:HB1	1:43:A:ALA:HB3	8	0.48
(1,5125)	1:43:A:ALA:HB2	1:43:A:ALA:HB3	9	0.48
(1,5118)	1:40:A:LEU:HD12	1:42:A:GLU:HG2	7	0.48
(1,4923)	1:35:A:SER:HA	1:156:A:ALA:HB2	10	0.48
(1,4883)	1:30:A:ILE:HG22	1:82:A:GLN:H	9	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4848)	1:30:A:ILE:HD11	1:29:A:TRP:HA	5	0.48
(1,4752)	1:106:A:ASP:H	1:93:A:MET:HB2	9	0.48
(1,4739)	1:75:A:ILE:H	1:32:A:PHE:HE2	9	0.48
(1,4732)	1:66:A:ILE:H	1:154:A:LYS:HE3	10	0.48
(1,4720)	1:39:A:PHE:H	1:30:A:ILE:HB	7	0.48
(1,4653)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	3	0.48
(1,4647)	1:79:A:LEU:HD12	1:152:A:LEU:H	4	0.48
(1,4635)	1:75:A:ILE:HD12	1:78:A:THR:H	1	0.48
(1,4573)	1:106:A:ASP:H	1:93:A:MET:HB2	9	0.48
(1,4560)	1:75:A:ILE:H	1:32:A:PHE:HE2	9	0.48
(1,4553)	1:66:A:ILE:H	1:154:A:LYS:HE3	10	0.48
(1,4541)	1:39:A:PHE:H	1:30:A:ILE:HB	7	0.48
(1,4474)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	3	0.48
(1,4468)	1:79:A:LEU:HD12	1:152:A:LEU:H	4	0.48
(1,4456)	1:75:A:ILE:HD12	1:78:A:THR:H	1	0.48
(1,4392)	1:159:A:TYR:H	1:157:A:ILE:HG21	8	0.48
(1,4286)	1:149:A:GLU:H	1:43:A:ALA:HB3	4	0.48
(1,4286)	1:149:A:GLU:H	1:43:A:ALA:HB1	9	0.48
(1,4113)	1:133:A:ILE:H	1:131:A:LEU:HD12	1	0.48
(1,3672)	1:89:A:ILE:H	1:133:A:ILE:HD11	2	0.48
(1,3672)	1:89:A:ILE:H	1:133:A:ILE:HD12	10	0.48
(1,3366)	1:63:A:MET:H	1:63:A:MET:HE1	8	0.48
(1,3161)	1:49:A:ILE:H	1:46:A:VAL:HG11	3	0.48
(1,3063)	1:37:A:TYR:H	1:30:A:ILE:HD11	2	0.48
(1,3063)	1:37:A:TYR:H	1:30:A:ILE:HD12	9	0.48
(1,2943)	1:30:A:ILE:H	1:152:A:LEU:HD13	2	0.48
(1,2711)	1:104:A:TRP:HE3	1:91:A:LEU:HD12	6	0.48
(1,2627)	1:74:A:PHE:HZ	1:30:A:ILE:HD11	2	0.48
(1,2501)	1:28:A:THR:HG23	1:29:A:TRP:HD1	7	0.48
(1,2439)	1:157:A:ILE:HG21	1:23:A:ASP:HA	9	0.48
(1,2404)	1:156:A:ALA:HB3	1:154:A:LYS:HE2	4	0.48
(1,2314)	1:78:A:THR:HG21	1:152:A:LEU:HD21	6	0.48
(1,2044)	1:136:A:GLY:H	1:135:A:THR:HG21	3	0.48
(1,2007)	1:133:A:ILE:HG21	1:77:A:ASP:HA	7	0.48
(1,2007)	1:133:A:ILE:HG23	1:77:A:ASP:HA	10	0.48
(1,1984)	1:133:A:ILE:HD12	1:132:A:HIS:HA	3	0.48
(1,1984)	1:133:A:ILE:HD11	1:132:A:HIS:HA	4	0.48
(1,1982)	1:85:A:GLY:HA3	1:133:A:ILE:HD13	2	0.48
(1,1914)	1:131:A:LEU:HD12	1:89:A:ILE:H	9	0.48
(1,1832)	1:127:A:THR:H	1:125:A:VAL:HG13	5	0.48
(1,1832)	1:127:A:THR:H	1:125:A:VAL:HG11	9	0.48
(1,1799)	1:124:A:LEU:HD13	1:120:A:ASP:HB2	1	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1798)	1:124:A:LEU:HB3	1:124:A:LEU:HD21	2	0.48
(1,1798)	1:124:A:LEU:HB3	1:124:A:LEU:HD23	4	0.48
(1,1798)	1:124:A:LEU:HB3	1:124:A:LEU:HD23	5	0.48
(1,1740)	1:116:A:THR:HA	1:116:A:THR:HG21	3	0.48
(1,1504)	1:97:A:THR:HG21	1:97:A:THR:HG23	2	0.48
(1,1504)	1:97:A:THR:HG21	1:97:A:THR:HG22	6	0.48
(1,1504)	1:97:A:THR:HG21	1:97:A:THR:HG22	7	0.48
(1,1504)	1:97:A:THR:HG21	1:97:A:THR:HG23	8	0.48
(1,1504)	1:97:A:THR:HG22	1:97:A:THR:HG23	9	0.48
(1,1504)	1:97:A:THR:HG22	1:97:A:THR:HG23	10	0.48
(1,1497)	1:98:A:ASP:H	1:97:A:THR:HG21	6	0.48
(1,1497)	1:98:A:ASP:H	1:97:A:THR:HG21	7	0.48
(1,1412)	1:91:A:LEU:HD23	1:114:A:LYS:H	2	0.48
(1,1380)	1:91:A:LEU:HD12	1:66:A:ILE:HB	1	0.48
(1,1378)	1:91:A:LEU:HD13	1:65:A:SER:HA	7	0.48
(1,1309)	1:90:A:LEU:HA	1:90:A:LEU:HD13	1	0.48
(1,1309)	1:90:A:LEU:HA	1:90:A:LEU:HD11	5	0.48
(1,1309)	1:90:A:LEU:HA	1:90:A:LEU:HD11	8	0.48
(1,1282)	1:89:A:ILE:HD12	1:89:A:ILE:HD13	3	0.48
(1,1282)	1:89:A:ILE:HD11	1:89:A:ILE:HD13	10	0.48
(1,1090)	1:79:A:LEU:HD12	1:81:A:LYS:H	8	0.48
(1,977)	1:75:A:ILE:HG23	1:65:A:SER:H	3	0.48
(1,910)	1:72:A:ASN:HB2	1:73:A:ALA:HB2	3	0.48
(1,910)	1:72:A:ASN:HB2	1:73:A:ALA:HB2	5	0.48
(1,672)	1:63:A:MET:HE1	1:90:A:LEU:HB2	5	0.48
(1,358)	1:43:A:ALA:HB2	1:43:A:ALA:HB3	1	0.48
(1,358)	1:43:A:ALA:HB1	1:43:A:ALA:HB3	2	0.48
(1,358)	1:43:A:ALA:HB2	1:43:A:ALA:HB3	3	0.48
(1,358)	1:43:A:ALA:HB1	1:43:A:ALA:HB3	4	0.48
(1,358)	1:43:A:ALA:HB1	1:43:A:ALA:HB3	5	0.48
(1,358)	1:43:A:ALA:HB2	1:43:A:ALA:HB1	6	0.48
(1,358)	1:43:A:ALA:HB2	1:43:A:ALA:HB1	7	0.48
(1,358)	1:43:A:ALA:HB1	1:43:A:ALA:HB3	8	0.48
(1,358)	1:43:A:ALA:HB2	1:43:A:ALA:HB3	9	0.48
(1,351)	1:40:A:LEU:HD12	1:42:A:GLU:HG2	7	0.48
(1,156)	1:35:A:SER:HA	1:156:A:ALA:HB2	10	0.48
(1,116)	1:30:A:ILE:HG22	1:82:A:GLN:H	9	0.48
(1,81)	1:30:A:ILE:HD11	1:29:A:TRP:HA	5	0.48
(1,8983)	1:140:A:LYS:H	1:124:A:LEU:HD23	1	0.47
(1,8983)	1:140:A:LYS:H	1:124:A:LEU:HD22	5	0.47
(1,8880)	1:133:A:ILE:H	1:131:A:LEU:HD13	2	0.47
(1,8798)	1:126:A:ASP:H	1:124:A:LEU:HD23	6	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8798)	1:126:A:ASP:H	1:124:A:LEU:HD23	8	0.47
(1,7394)	1:74:A:PHE:HZ	1:30:A:ILE:HD12	4	0.47
(1,7203)	1:157:A:ILE:HG22	1:35:A:SER:HB2	1	0.47
(1,7091)	1:152:A:LEU:HG	1:64:A:ILE:HG21	9	0.47
(1,7091)	1:152:A:LEU:HG	1:64:A:ILE:HG21	10	0.47
(1,7076)	1:152:A:LEU:HD22	1:75:A:ILE:HB	1	0.47
(1,7076)	1:152:A:LEU:HD21	1:75:A:ILE:HB	7	0.47
(1,7076)	1:152:A:LEU:HD23	1:75:A:ILE:HB	8	0.47
(1,7076)	1:152:A:LEU:HD22	1:75:A:ILE:HB	9	0.47
(1,7030)	1:151:A:THR:HA	1:151:A:THR:HG22	3	0.47
(1,7030)	1:151:A:THR:HA	1:151:A:THR:HG21	9	0.47
(1,6811)	1:136:A:GLY:H	1:135:A:THR:HG22	2	0.47
(1,6774)	1:133:A:ILE:HG21	1:77:A:ASP:HA	3	0.47
(1,6751)	1:133:A:ILE:HD13	1:132:A:HIS:HA	6	0.47
(1,6749)	1:85:A:GLY:HA3	1:133:A:ILE:HD11	1	0.47
(1,6688)	1:131:A:LEU:HD11	1:131:A:LEU:HD13	2	0.47
(1,6688)	1:131:A:LEU:HD11	1:131:A:LEU:HD13	5	0.47
(1,6688)	1:131:A:LEU:HD11	1:131:A:LEU:HD13	8	0.47
(1,6610)	1:127:A:THR:HA	1:127:A:THR:HG22	6	0.47
(1,6565)	1:124:A:LEU:HB3	1:124:A:LEU:HD23	9	0.47
(1,6389)	1:109:A:ASN:HB2	1:111:A:THR:HG21	2	0.47
(1,6297)	1:101:A:SER:HB2	1:100:A:ALA:HB1	5	0.47
(1,6292)	1:101:A:SER:H	1:100:A:ALA:HB3	5	0.47
(1,6264)	1:98:A:ASP:H	1:97:A:THR:HG21	1	0.47
(1,6264)	1:98:A:ASP:H	1:97:A:THR:HG23	5	0.47
(1,6264)	1:98:A:ASP:H	1:97:A:THR:HG23	8	0.47
(1,6154)	1:91:A:LEU:HD11	1:104:A:TRP:HZ2	7	0.47
(1,6145)	1:91:A:LEU:HD13	1:65:A:SER:HA	2	0.47
(1,6076)	1:90:A:LEU:HA	1:90:A:LEU:HD11	2	0.47
(1,6076)	1:90:A:LEU:HA	1:90:A:LEU:HD13	3	0.47
(1,6043)	1:89:A:ILE:HD11	1:131:A:LEU:HA	6	0.47
(1,6043)	1:89:A:ILE:HD11	1:131:A:LEU:HA	7	0.47
(1,5852)	1:79:A:LEU:HB2	1:79:A:LEU:HD13	4	0.47
(1,5742)	1:75:A:ILE:HG22	1:78:A:THR:H	2	0.47
(1,5715)	1:75:A:ILE:HA	1:79:A:LEU:HD22	7	0.47
(1,5688)	1:73:A:ALA:HB2	1:114:A:LYS:HE3	3	0.47
(1,5688)	1:73:A:ALA:HB2	1:114:A:LYS:HE3	5	0.47
(1,5628)	1:70:A:GLU:HB2	1:73:A:ALA:HB2	2	0.47
(1,5628)	1:70:A:GLU:HB2	1:73:A:ALA:HB2	6	0.47
(1,5628)	1:70:A:GLU:HB2	1:73:A:ALA:HB3	9	0.47
(1,5542)	1:66:A:ILE:HD11	1:71:A:GLU:HG3	7	0.47
(1,5439)	1:63:A:MET:HE1	1:90:A:LEU:HB2	9	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5412)	1:61:A:ALA:HB3	1:40:A:LEU:HD21	3	0.47
(1,5412)	1:61:A:ALA:HB1	1:40:A:LEU:HD23	10	0.47
(1,5261)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	1	0.47
(1,5261)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	3	0.47
(1,5261)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	4	0.47
(1,5261)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	10	0.47
(1,5125)	1:43:A:ALA:HB2	1:43:A:ALA:HB1	10	0.47
(1,4870)	1:30:A:ILE:HG13	1:30:A:ILE:HG23	7	0.47
(1,4870)	1:30:A:ILE:HG13	1:30:A:ILE:HG21	8	0.47
(1,4848)	1:30:A:ILE:HD12	1:29:A:TRP:HA	10	0.47
(1,4752)	1:106:A:ASP:H	1:93:A:MET:HB2	1	0.47
(1,4735)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	9	0.47
(1,4635)	1:75:A:ILE:HD12	1:78:A:THR:H	3	0.47
(1,4623)	1:64:A:ILE:HG22	1:65:A:SER:HB2	5	0.47
(1,4594)	1:40:A:LEU:HD11	1:56:A:CYS:HB2	4	0.47
(1,4594)	1:40:A:LEU:HD12	1:56:A:CYS:HB2	5	0.47
(1,4573)	1:106:A:ASP:H	1:93:A:MET:HB2	1	0.47
(1,4556)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	9	0.47
(1,4456)	1:75:A:ILE:HD12	1:78:A:THR:H	3	0.47
(1,4444)	1:64:A:ILE:HG22	1:65:A:SER:HB2	5	0.47
(1,4415)	1:40:A:LEU:HD11	1:56:A:CYS:HB2	4	0.47
(1,4415)	1:40:A:LEU:HD12	1:56:A:CYS:HB2	5	0.47
(1,4216)	1:140:A:LYS:H	1:124:A:LEU:HD23	1	0.47
(1,4216)	1:140:A:LYS:H	1:124:A:LEU:HD22	5	0.47
(1,4113)	1:133:A:ILE:H	1:131:A:LEU:HD13	2	0.47
(1,4031)	1:126:A:ASP:H	1:124:A:LEU:HD23	6	0.47
(1,4031)	1:126:A:ASP:H	1:124:A:LEU:HD23	8	0.47
(1,2627)	1:74:A:PHE:HZ	1:30:A:ILE:HD12	4	0.47
(1,2436)	1:157:A:ILE:HG22	1:35:A:SER:HB2	1	0.47
(1,2324)	1:152:A:LEU:HG	1:64:A:ILE:HG21	9	0.47
(1,2324)	1:152:A:LEU:HG	1:64:A:ILE:HG21	10	0.47
(1,2309)	1:152:A:LEU:HD22	1:75:A:ILE:HB	1	0.47
(1,2309)	1:152:A:LEU:HD21	1:75:A:ILE:HB	7	0.47
(1,2309)	1:152:A:LEU:HD23	1:75:A:ILE:HB	8	0.47
(1,2309)	1:152:A:LEU:HD22	1:75:A:ILE:HB	9	0.47
(1,2263)	1:151:A:THR:HA	1:151:A:THR:HG22	3	0.47
(1,2263)	1:151:A:THR:HA	1:151:A:THR:HG21	9	0.47
(1,2044)	1:136:A:GLY:H	1:135:A:THR:HG22	2	0.47
(1,2007)	1:133:A:ILE:HG21	1:77:A:ASP:HA	3	0.47
(1,1984)	1:133:A:ILE:HD13	1:132:A:HIS:HA	6	0.47
(1,1982)	1:85:A:GLY:HA3	1:133:A:ILE:HD11	1	0.47
(1,1921)	1:131:A:LEU:HD11	1:131:A:LEU:HD13	2	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1921)	1:131:A:LEU:HD11	1:131:A:LEU:HD13	5	0.47
(1,1921)	1:131:A:LEU:HD11	1:131:A:LEU:HD13	8	0.47
(1,1843)	1:127:A:THR:HA	1:127:A:THR:HG22	6	0.47
(1,1798)	1:124:A:LEU:HB3	1:124:A:LEU:HD23	9	0.47
(1,1622)	1:109:A:ASN:HB2	1:111:A:THR:HG21	2	0.47
(1,1530)	1:101:A:SER:HB2	1:100:A:ALA:HB1	5	0.47
(1,1525)	1:101:A:SER:H	1:100:A:ALA:HB3	5	0.47
(1,1497)	1:98:A:ASP:H	1:97:A:THR:HG21	1	0.47
(1,1497)	1:98:A:ASP:H	1:97:A:THR:HG23	5	0.47
(1,1497)	1:98:A:ASP:H	1:97:A:THR:HG23	8	0.47
(1,1387)	1:91:A:LEU:HD11	1:104:A:TRP:HZ2	7	0.47
(1,1378)	1:91:A:LEU:HD13	1:65:A:SER:HA	2	0.47
(1,1309)	1:90:A:LEU:HA	1:90:A:LEU:HD11	2	0.47
(1,1309)	1:90:A:LEU:HA	1:90:A:LEU:HD13	3	0.47
(1,1276)	1:89:A:ILE:HD11	1:131:A:LEU:HA	6	0.47
(1,1276)	1:89:A:ILE:HD11	1:131:A:LEU:HA	7	0.47
(1,1085)	1:79:A:LEU:HB2	1:79:A:LEU:HD13	4	0.47
(1,975)	1:75:A:ILE:HG22	1:78:A:THR:H	2	0.47
(1,948)	1:75:A:ILE:HA	1:79:A:LEU:HD22	7	0.47
(1,921)	1:73:A:ALA:HB2	1:114:A:LYS:HE3	3	0.47
(1,921)	1:73:A:ALA:HB2	1:114:A:LYS:HE3	5	0.47
(1,861)	1:70:A:GLU:HB2	1:73:A:ALA:HB2	2	0.47
(1,861)	1:70:A:GLU:HB2	1:73:A:ALA:HB2	6	0.47
(1,861)	1:70:A:GLU:HB2	1:73:A:ALA:HB3	9	0.47
(1,775)	1:66:A:ILE:HD11	1:71:A:GLU:HG3	7	0.47
(1,672)	1:63:A:MET:HE1	1:90:A:LEU:HB2	9	0.47
(1,645)	1:61:A:ALA:HB3	1:40:A:LEU:HD21	3	0.47
(1,645)	1:61:A:ALA:HB1	1:40:A:LEU:HD23	10	0.47
(1,494)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	1	0.47
(1,494)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	3	0.47
(1,494)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	4	0.47
(1,494)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	10	0.47
(1,358)	1:43:A:ALA:HB2	1:43:A:ALA:HB1	10	0.47
(1,103)	1:30:A:ILE:HG13	1:30:A:ILE:HG23	7	0.47
(1,103)	1:30:A:ILE:HG13	1:30:A:ILE:HG21	8	0.47
(1,81)	1:30:A:ILE:HD12	1:29:A:TRP:HA	10	0.47
(1,9159)	1:159:A:TYR:H	1:157:A:ILE:HG22	3	0.46
(1,9159)	1:159:A:TYR:H	1:157:A:ILE:HG22	6	0.46
(1,9159)	1:159:A:TYR:H	1:157:A:ILE:HG23	9	0.46
(1,8880)	1:133:A:ILE:H	1:131:A:LEU:HD12	4	0.46
(1,8397)	1:83:A:TRP:HE1	1:78:A:THR:HG23	7	0.46
(1,8273)	1:73:A:ALA:H	1:66:A:ILE:HG21	1	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7993)	1:54:A:ASN:H	1:52:A:VAL:HG23	8	0.46
(1,7517)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	4	0.46
(1,7478)	1:104:A:TRP:HE3	1:91:A:LEU:HD11	10	0.46
(1,7394)	1:74:A:PHE:HZ	1:30:A:ILE:HD11	5	0.46
(1,7394)	1:74:A:PHE:HZ	1:30:A:ILE:HD13	8	0.46
(1,7384)	1:74:A:PHE:HE1	1:75:A:ILE:HA	5	0.46
(1,7384)	1:74:A:PHE:HE1	1:75:A:ILE:HA	10	0.46
(1,7091)	1:152:A:LEU:HG	1:64:A:ILE:HG21	3	0.46
(1,7091)	1:152:A:LEU:HG	1:64:A:ILE:HG22	6	0.46
(1,7091)	1:152:A:LEU:HG	1:64:A:ILE:HG22	7	0.46
(1,7083)	1:152:A:LEU:HD22	1:78:A:THR:HB	7	0.46
(1,7076)	1:152:A:LEU:HD23	1:75:A:ILE:HB	6	0.46
(1,6839)	1:116:A:THR:HG23	1:137:A:GLU:HG2	3	0.46
(1,6718)	1:136:A:GLY:H	1:131:A:LEU:HD21	3	0.46
(1,6708)	1:131:A:LEU:HD23	1:88:A:ASP:HA	5	0.46
(1,6688)	1:131:A:LEU:HD11	1:131:A:LEU:HD13	1	0.46
(1,6688)	1:131:A:LEU:HD11	1:131:A:LEU:HD13	4	0.46
(1,6688)	1:131:A:LEU:HD12	1:131:A:LEU:HD13	6	0.46
(1,6688)	1:131:A:LEU:HD12	1:131:A:LEU:HD13	10	0.46
(1,6599)	1:127:A:THR:H	1:125:A:VAL:HG12	2	0.46
(1,6599)	1:127:A:THR:H	1:125:A:VAL:HG11	10	0.46
(1,6411)	1:109:A:ASN:HB2	1:111:A:THR:HG22	9	0.46
(1,6166)	1:92:A:GLY:H	1:91:A:LEU:HD21	4	0.46
(1,6145)	1:91:A:LEU:HD12	1:65:A:SER:HA	6	0.46
(1,6116)	1:90:A:LEU:HD21	1:130:A:PHE:HZ	10	0.46
(1,6076)	1:90:A:LEU:HA	1:90:A:LEU:HD13	7	0.46
(1,6076)	1:90:A:LEU:HA	1:90:A:LEU:HD11	10	0.46
(1,5852)	1:79:A:LEU:HB2	1:79:A:LEU:HD13	1	0.46
(1,5852)	1:79:A:LEU:HB2	1:79:A:LEU:HD11	2	0.46
(1,5850)	1:79:A:LEU:H	1:79:A:LEU:HD12	10	0.46
(1,5722)	1:75:A:ILE:HD12	1:37:A:TYR:HB2	1	0.46
(1,5722)	1:75:A:ILE:HD12	1:37:A:TYR:HB2	3	0.46
(1,5715)	1:75:A:ILE:HA	1:79:A:LEU:HD22	8	0.46
(1,5688)	1:73:A:ALA:HB3	1:114:A:LYS:HE3	2	0.46
(1,5688)	1:73:A:ALA:HB2	1:114:A:LYS:HE3	7	0.46
(1,5677)	1:72:A:ASN:HB2	1:73:A:ALA:HB1	9	0.46
(1,5628)	1:70:A:GLU:HB2	1:73:A:ALA:HB2	4	0.46
(1,5547)	1:66:A:ILE:HD13	1:75:A:ILE:HA	5	0.46
(1,5318)	1:52:A:VAL:HG23	1:52:A:VAL:H	8	0.46
(1,5261)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	7	0.46
(1,5257)	1:49:A:ILE:HG22	1:144:A:GLU:HG2	2	0.46
(1,5254)	1:49:A:ILE:HG23	1:105:A:PHE:HD2	5	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5254)	1:49:A:ILE:HG22	1:105:A:PHE:HD2	7	0.46
(1,5203)	1:46:A:VAL:HG11	1:47:A:GLU:HG2	9	0.46
(1,5067)	1:40:A:LEU:HD11	1:152:A:LEU:HD12	1	0.46
(1,5045)	1:40:A:LEU:HB2	1:38:A:ILE:HD13	7	0.46
(1,4923)	1:35:A:SER:HA	1:156:A:ALA:HB3	8	0.46
(1,4870)	1:30:A:ILE:HG13	1:30:A:ILE:HG21	1	0.46
(1,4870)	1:30:A:ILE:HG13	1:30:A:ILE:HG23	3	0.46
(1,4870)	1:30:A:ILE:HG13	1:30:A:ILE:HG23	5	0.46
(1,4759)	1:137:A:GLU:H	1:131:A:LEU:HG	5	0.46
(1,4759)	1:137:A:GLU:H	1:131:A:LEU:HG	7	0.46
(1,4752)	1:106:A:ASP:H	1:93:A:MET:HB2	5	0.46
(1,4739)	1:75:A:ILE:H	1:32:A:PHE:HE2	5	0.46
(1,4739)	1:75:A:ILE:H	1:32:A:PHE:HE2	8	0.46
(1,4735)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	5	0.46
(1,4718)	1:37:A:TYR:H	1:152:A:LEU:HD11	3	0.46
(1,4718)	1:37:A:TYR:H	1:152:A:LEU:HD13	10	0.46
(1,4663)	1:125:A:VAL:HG12	1:142:A:ASN:HA	8	0.46
(1,4635)	1:75:A:ILE:HD11	1:78:A:THR:H	9	0.46
(1,4623)	1:64:A:ILE:HG21	1:65:A:SER:HB2	6	0.46
(1,4594)	1:40:A:LEU:HD13	1:56:A:CYS:HB2	1	0.46
(1,4592)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	8	0.46
(1,4580)	1:137:A:GLU:H	1:131:A:LEU:HG	5	0.46
(1,4580)	1:137:A:GLU:H	1:131:A:LEU:HG	7	0.46
(1,4573)	1:106:A:ASP:H	1:93:A:MET:HB2	5	0.46
(1,4560)	1:75:A:ILE:H	1:32:A:PHE:HE2	5	0.46
(1,4560)	1:75:A:ILE:H	1:32:A:PHE:HE2	8	0.46
(1,4556)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	5	0.46
(1,4539)	1:37:A:TYR:H	1:152:A:LEU:HD11	3	0.46
(1,4539)	1:37:A:TYR:H	1:152:A:LEU:HD13	10	0.46
(1,4484)	1:125:A:VAL:HG12	1:142:A:ASN:HA	8	0.46
(1,4456)	1:75:A:ILE:HD11	1:78:A:THR:H	9	0.46
(1,4444)	1:64:A:ILE:HG21	1:65:A:SER:HB2	6	0.46
(1,4415)	1:40:A:LEU:HD13	1:56:A:CYS:HB2	1	0.46
(1,4413)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	8	0.46
(1,4392)	1:159:A:TYR:H	1:157:A:ILE:HG22	3	0.46
(1,4392)	1:159:A:TYR:H	1:157:A:ILE:HG22	6	0.46
(1,4392)	1:159:A:TYR:H	1:157:A:ILE:HG23	9	0.46
(1,4113)	1:133:A:ILE:H	1:131:A:LEU:HD12	4	0.46
(1,3630)	1:83:A:TRP:HE1	1:78:A:THR:HG23	7	0.46
(1,3506)	1:73:A:ALA:H	1:66:A:ILE:HG21	1	0.46
(1,3226)	1:54:A:ASN:H	1:52:A:VAL:HG23	8	0.46
(1,2750)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	4	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2711)	1:104:A:TRP:HE3	1:91:A:LEU:HD11	10	0.46
(1,2627)	1:74:A:PHE:HZ	1:30:A:ILE:HD11	5	0.46
(1,2627)	1:74:A:PHE:HZ	1:30:A:ILE:HD13	8	0.46
(1,2617)	1:74:A:PHE:HE1	1:75:A:ILE:HA	5	0.46
(1,2617)	1:74:A:PHE:HE1	1:75:A:ILE:HA	10	0.46
(1,2324)	1:152:A:LEU:HG	1:64:A:ILE:HG21	3	0.46
(1,2324)	1:152:A:LEU:HG	1:64:A:ILE:HG22	6	0.46
(1,2324)	1:152:A:LEU:HG	1:64:A:ILE:HG22	7	0.46
(1,2316)	1:152:A:LEU:HD22	1:78:A:THR:HB	7	0.46
(1,2309)	1:152:A:LEU:HD23	1:75:A:ILE:HB	6	0.46
(1,2072)	1:116:A:THR:HG23	1:137:A:GLU:HG2	3	0.46
(1,1951)	1:136:A:GLY:H	1:131:A:LEU:HD21	3	0.46
(1,1941)	1:131:A:LEU:HD23	1:88:A:ASP:HA	5	0.46
(1,1921)	1:131:A:LEU:HD11	1:131:A:LEU:HD13	1	0.46
(1,1921)	1:131:A:LEU:HD11	1:131:A:LEU:HD13	4	0.46
(1,1921)	1:131:A:LEU:HD12	1:131:A:LEU:HD13	6	0.46
(1,1921)	1:131:A:LEU:HD12	1:131:A:LEU:HD13	10	0.46
(1,1832)	1:127:A:THR:H	1:125:A:VAL:HG12	2	0.46
(1,1832)	1:127:A:THR:H	1:125:A:VAL:HG11	10	0.46
(1,1644)	1:109:A:ASN:HB2	1:111:A:THR:HG22	9	0.46
(1,1399)	1:92:A:GLY:H	1:91:A:LEU:HD21	4	0.46
(1,1378)	1:91:A:LEU:HD12	1:65:A:SER:HA	6	0.46
(1,1349)	1:90:A:LEU:HD21	1:130:A:PHE:HZ	10	0.46
(1,1309)	1:90:A:LEU:HA	1:90:A:LEU:HD13	7	0.46
(1,1309)	1:90:A:LEU:HA	1:90:A:LEU:HD11	10	0.46
(1,1085)	1:79:A:LEU:HB2	1:79:A:LEU:HD13	1	0.46
(1,1085)	1:79:A:LEU:HB2	1:79:A:LEU:HD11	2	0.46
(1,1083)	1:79:A:LEU:H	1:79:A:LEU:HD12	10	0.46
(1,955)	1:75:A:ILE:HD12	1:37:A:TYR:HB2	1	0.46
(1,955)	1:75:A:ILE:HD12	1:37:A:TYR:HB2	3	0.46
(1,948)	1:75:A:ILE:HA	1:79:A:LEU:HD22	8	0.46
(1,921)	1:73:A:ALA:HB3	1:114:A:LYS:HE3	2	0.46
(1,921)	1:73:A:ALA:HB2	1:114:A:LYS:HE3	7	0.46
(1,910)	1:72:A:ASN:HB2	1:73:A:ALA:HB1	9	0.46
(1,861)	1:70:A:GLU:HB2	1:73:A:ALA:HB2	4	0.46
(1,780)	1:66:A:ILE:HD13	1:75:A:ILE:HA	5	0.46
(1,551)	1:52:A:VAL:HG23	1:52:A:VAL:H	8	0.46
(1,494)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	7	0.46
(1,490)	1:49:A:ILE:HG22	1:144:A:GLU:HG2	2	0.46
(1,487)	1:49:A:ILE:HG23	1:105:A:PHE:HD2	5	0.46
(1,487)	1:49:A:ILE:HG22	1:105:A:PHE:HD2	7	0.46
(1,436)	1:46:A:VAL:HG11	1:47:A:GLU:HG2	9	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,300)	1:40:A:LEU:HD11	1:152:A:LEU:HD12	1	0.46
(1,278)	1:40:A:LEU:HB2	1:38:A:ILE:HD13	7	0.46
(1,156)	1:35:A:SER:HA	1:156:A:ALA:HB3	8	0.46
(1,103)	1:30:A:ILE:HG13	1:30:A:ILE:HG21	1	0.46
(1,103)	1:30:A:ILE:HG13	1:30:A:ILE:HG23	3	0.46
(1,103)	1:30:A:ILE:HG13	1:30:A:ILE:HG23	5	0.46
(1,8880)	1:133:A:ILE:H	1:131:A:LEU:HD11	6	0.45
(1,8880)	1:133:A:ILE:H	1:131:A:LEU:HD11	7	0.45
(1,8798)	1:126:A:ASP:H	1:124:A:LEU:HD21	1	0.45
(1,8798)	1:126:A:ASP:H	1:124:A:LEU:HD21	2	0.45
(1,8439)	1:89:A:ILE:H	1:133:A:ILE:HD12	1	0.45
(1,8439)	1:89:A:ILE:H	1:133:A:ILE:HD12	5	0.45
(1,8389)	1:83:A:TRP:HE1	1:30:A:ILE:HD13	9	0.45
(1,8137)	1:63:A:MET:H	1:151:A:THR:HG23	5	0.45
(1,8133)	1:63:A:MET:H	1:63:A:MET:HE3	10	0.45
(1,7993)	1:54:A:ASN:H	1:52:A:VAL:HG23	4	0.45
(1,7928)	1:49:A:ILE:H	1:46:A:VAL:HG11	9	0.45
(1,7710)	1:30:A:ILE:H	1:152:A:LEU:HD11	4	0.45
(1,7211)	1:157:A:ILE:HG21	1:157:A:ILE:HG13	3	0.45
(1,7091)	1:152:A:LEU:HG	1:64:A:ILE:HG23	4	0.45
(1,7091)	1:152:A:LEU:HG	1:64:A:ILE:HG21	8	0.45
(1,7084)	1:152:A:LEU:HD22	1:79:A:LEU:HA	4	0.45
(1,7081)	1:78:A:THR:HG23	1:152:A:LEU:HD21	10	0.45
(1,7076)	1:152:A:LEU:HD23	1:75:A:ILE:HB	3	0.45
(1,6749)	1:85:A:GLY:HA3	1:133:A:ILE:HD11	5	0.45
(1,6688)	1:131:A:LEU:HD11	1:131:A:LEU:HD13	3	0.45
(1,6688)	1:131:A:LEU:HD12	1:131:A:LEU:HD13	7	0.45
(1,6688)	1:131:A:LEU:HD11	1:131:A:LEU:HD13	9	0.45
(1,6681)	1:131:A:LEU:HD12	1:89:A:ILE:H	3	0.45
(1,6645)	1:129:A:ALA:HB3	1:91:A:LEU:HB3	5	0.45
(1,6596)	1:125:A:VAL:HG12	1:97:A:THR:HG22	4	0.45
(1,6096)	1:90:A:LEU:HD11	1:90:A:LEU:H	8	0.45
(1,5860)	1:79:A:LEU:HD11	1:89:A:ILE:H	5	0.45
(1,5852)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	6	0.45
(1,5852)	1:79:A:LEU:HB2	1:79:A:LEU:HD11	8	0.45
(1,5850)	1:79:A:LEU:H	1:79:A:LEU:HD12	3	0.45
(1,5850)	1:79:A:LEU:H	1:79:A:LEU:HD12	5	0.45
(1,5850)	1:79:A:LEU:H	1:79:A:LEU:HD12	6	0.45
(1,5850)	1:79:A:LEU:H	1:79:A:LEU:HD12	7	0.45
(1,5850)	1:79:A:LEU:H	1:79:A:LEU:HD12	9	0.45
(1,5770)	1:76:A:LEU:HD11	1:76:A:LEU:HD13	1	0.45
(1,5770)	1:76:A:LEU:HD12	1:76:A:LEU:HD13	4	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5770)	1:76:A:LEU:HD11	1:76:A:LEU:HD13	6	0.45
(1,5770)	1:76:A:LEU:HD11	1:76:A:LEU:HD13	10	0.45
(1,5742)	1:75:A:ILE:HG22	1:78:A:THR:H	8	0.45
(1,5722)	1:75:A:ILE:HD11	1:37:A:TYR:HB2	2	0.45
(1,5715)	1:75:A:ILE:HA	1:79:A:LEU:HD23	9	0.45
(1,5582)	1:66:A:ILE:HG23	1:138:A:TRP:HZ3	1	0.45
(1,5505)	1:64:A:ILE:HG23	1:65:A:SER:H	9	0.45
(1,5410)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	3	0.45
(1,5410)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	4	0.45
(1,5410)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	5	0.45
(1,5280)	1:50:A:GLU:HG3	1:49:A:ILE:HG21	2	0.45
(1,5261)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	2	0.45
(1,5261)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	5	0.45
(1,5261)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	6	0.45
(1,5261)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	9	0.45
(1,5254)	1:49:A:ILE:HG23	1:105:A:PHE:HD2	9	0.45
(1,5190)	1:46:A:VAL:HG21	1:47:A:GLU:H	10	0.45
(1,4990)	1:38:A:ILE:HD11	1:30:A:ILE:HG13	4	0.45
(1,4990)	1:38:A:ILE:HD11	1:30:A:ILE:HG13	9	0.45
(1,4883)	1:30:A:ILE:HG23	1:82:A:GLN:H	3	0.45
(1,4870)	1:30:A:ILE:HG13	1:30:A:ILE:HG21	2	0.45
(1,4870)	1:30:A:ILE:HG13	1:30:A:ILE:HG23	4	0.45
(1,4870)	1:30:A:ILE:HG13	1:30:A:ILE:HG21	6	0.45
(1,4870)	1:30:A:ILE:HG13	1:30:A:ILE:HG22	10	0.45
(1,4848)	1:30:A:ILE:HD13	1:29:A:TRP:HA	8	0.45
(1,4732)	1:66:A:ILE:H	1:154:A:LYS:HE3	2	0.45
(1,4718)	1:37:A:TYR:H	1:152:A:LEU:HD12	6	0.45
(1,4656)	1:91:A:LEU:HD21	1:115:A:TRP:HZ2	2	0.45
(1,4653)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	5	0.45
(1,4625)	1:66:A:ILE:HD12	1:136:A:GLY:HA2	6	0.45
(1,4623)	1:64:A:ILE:HG21	1:65:A:SER:HB2	1	0.45
(1,4618)	1:64:A:ILE:HA	1:154:A:LYS:HE3	6	0.45
(1,4594)	1:40:A:LEU:HD12	1:56:A:CYS:HB2	2	0.45
(1,4592)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	5	0.45
(1,4553)	1:66:A:ILE:H	1:154:A:LYS:HE3	2	0.45
(1,4539)	1:37:A:TYR:H	1:152:A:LEU:HD12	6	0.45
(1,4477)	1:91:A:LEU:HD21	1:115:A:TRP:HZ2	2	0.45
(1,4474)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	5	0.45
(1,4446)	1:66:A:ILE:HD12	1:136:A:GLY:HA2	6	0.45
(1,4444)	1:64:A:ILE:HG21	1:65:A:SER:HB2	1	0.45
(1,4439)	1:64:A:ILE:HA	1:154:A:LYS:HE3	6	0.45
(1,4415)	1:40:A:LEU:HD12	1:56:A:CYS:HB2	2	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4413)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	5	0.45
(1,4113)	1:133:A:ILE:H	1:131:A:LEU:HD11	6	0.45
(1,4113)	1:133:A:ILE:H	1:131:A:LEU:HD11	7	0.45
(1,4031)	1:126:A:ASP:H	1:124:A:LEU:HD21	1	0.45
(1,4031)	1:126:A:ASP:H	1:124:A:LEU:HD21	2	0.45
(1,3672)	1:89:A:ILE:H	1:133:A:ILE:HD12	1	0.45
(1,3672)	1:89:A:ILE:H	1:133:A:ILE:HD12	5	0.45
(1,3622)	1:83:A:TRP:HE1	1:30:A:ILE:HD13	9	0.45
(1,3370)	1:63:A:MET:H	1:151:A:THR:HG23	5	0.45
(1,3366)	1:63:A:MET:H	1:63:A:MET:HE3	10	0.45
(1,3226)	1:54:A:ASN:H	1:52:A:VAL:HG23	4	0.45
(1,3161)	1:49:A:ILE:H	1:46:A:VAL:HG11	9	0.45
(1,2943)	1:30:A:ILE:H	1:152:A:LEU:HD11	4	0.45
(1,2444)	1:157:A:ILE:HG21	1:157:A:ILE:HG13	3	0.45
(1,2324)	1:152:A:LEU:HG	1:64:A:ILE:HG23	4	0.45
(1,2324)	1:152:A:LEU:HG	1:64:A:ILE:HG21	8	0.45
(1,2317)	1:152:A:LEU:HD22	1:79:A:LEU:HA	4	0.45
(1,2314)	1:78:A:THR:HG23	1:152:A:LEU:HD21	10	0.45
(1,2309)	1:152:A:LEU:HD23	1:75:A:ILE:HB	3	0.45
(1,1982)	1:85:A:GLY:HA3	1:133:A:ILE:HD11	5	0.45
(1,1921)	1:131:A:LEU:HD11	1:131:A:LEU:HD13	3	0.45
(1,1921)	1:131:A:LEU:HD12	1:131:A:LEU:HD13	7	0.45
(1,1921)	1:131:A:LEU:HD11	1:131:A:LEU:HD13	9	0.45
(1,1914)	1:131:A:LEU:HD12	1:89:A:ILE:H	3	0.45
(1,1878)	1:129:A:ALA:HB3	1:91:A:LEU:HB3	5	0.45
(1,1829)	1:125:A:VAL:HG12	1:97:A:THR:HG22	4	0.45
(1,1329)	1:90:A:LEU:HD11	1:90:A:LEU:H	8	0.45
(1,1093)	1:79:A:LEU:HD11	1:89:A:ILE:H	5	0.45
(1,1085)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	6	0.45
(1,1085)	1:79:A:LEU:HB2	1:79:A:LEU:HD11	8	0.45
(1,1083)	1:79:A:LEU:H	1:79:A:LEU:HD12	3	0.45
(1,1083)	1:79:A:LEU:H	1:79:A:LEU:HD12	5	0.45
(1,1083)	1:79:A:LEU:H	1:79:A:LEU:HD12	6	0.45
(1,1083)	1:79:A:LEU:H	1:79:A:LEU:HD12	7	0.45
(1,1083)	1:79:A:LEU:H	1:79:A:LEU:HD12	9	0.45
(1,1003)	1:76:A:LEU:HD11	1:76:A:LEU:HD13	1	0.45
(1,1003)	1:76:A:LEU:HD12	1:76:A:LEU:HD13	4	0.45
(1,1003)	1:76:A:LEU:HD11	1:76:A:LEU:HD13	6	0.45
(1,1003)	1:76:A:LEU:HD11	1:76:A:LEU:HD13	10	0.45
(1,975)	1:75:A:ILE:HG22	1:78:A:THR:H	8	0.45
(1,955)	1:75:A:ILE:HD11	1:37:A:TYR:HB2	2	0.45
(1,948)	1:75:A:ILE:HA	1:79:A:LEU:HD23	9	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,815)	1:66:A:ILE:HG23	1:138:A:TRP:HZ3	1	0.45
(1,738)	1:64:A:ILE:HG23	1:65:A:SER:H	9	0.45
(1,643)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	3	0.45
(1,643)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	4	0.45
(1,643)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	5	0.45
(1,513)	1:50:A:GLU:HG3	1:49:A:ILE:HG21	2	0.45
(1,494)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	2	0.45
(1,494)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	5	0.45
(1,494)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	6	0.45
(1,494)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	9	0.45
(1,487)	1:49:A:ILE:HG23	1:105:A:PHE:HD2	9	0.45
(1,423)	1:46:A:VAL:HG21	1:47:A:GLU:H	10	0.45
(1,223)	1:38:A:ILE:HD11	1:30:A:ILE:HG13	4	0.45
(1,223)	1:38:A:ILE:HD11	1:30:A:ILE:HG13	9	0.45
(1,116)	1:30:A:ILE:HG23	1:82:A:GLN:H	3	0.45
(1,103)	1:30:A:ILE:HG13	1:30:A:ILE:HG21	2	0.45
(1,103)	1:30:A:ILE:HG13	1:30:A:ILE:HG23	4	0.45
(1,103)	1:30:A:ILE:HG13	1:30:A:ILE:HG21	6	0.45
(1,103)	1:30:A:ILE:HG13	1:30:A:ILE:HG22	10	0.45
(1,81)	1:30:A:ILE:HD13	1:29:A:TRP:HA	8	0.45
(1,9053)	1:149:A:GLU:H	1:43:A:ALA:HB2	8	0.44
(1,9045)	1:146:A:SER:H	1:145:A:VAL:HG12	2	0.44
(1,9045)	1:146:A:SER:H	1:145:A:VAL:HG13	3	0.44
(1,9045)	1:146:A:SER:H	1:145:A:VAL:HG11	4	0.44
(1,9045)	1:146:A:SER:H	1:145:A:VAL:HG12	9	0.44
(1,9045)	1:146:A:SER:H	1:145:A:VAL:HG11	10	0.44
(1,8880)	1:133:A:ILE:H	1:131:A:LEU:HD13	8	0.44
(1,8798)	1:126:A:ASP:H	1:124:A:LEU:HD23	5	0.44
(1,8439)	1:89:A:ILE:H	1:133:A:ILE:HD12	3	0.44
(1,8439)	1:89:A:ILE:H	1:133:A:ILE:HD12	9	0.44
(1,8389)	1:83:A:TRP:HE1	1:30:A:ILE:HD13	4	0.44
(1,8389)	1:83:A:TRP:HE1	1:30:A:ILE:HD12	6	0.44
(1,8291)	1:75:A:ILE:H	1:32:A:PHE:HD2	2	0.44
(1,7515)	1:105:A:PHE:HE1	1:49:A:ILE:HG22	4	0.44
(1,7394)	1:74:A:PHE:HZ	1:30:A:ILE:HD11	6	0.44
(1,7384)	1:74:A:PHE:HE1	1:75:A:ILE:HA	3	0.44
(1,7203)	1:157:A:ILE:HG21	1:35:A:SER:HB2	3	0.44
(1,7203)	1:157:A:ILE:HG23	1:35:A:SER:HB2	4	0.44
(1,7091)	1:152:A:LEU:HG	1:64:A:ILE:HG22	1	0.44
(1,7091)	1:152:A:LEU:HG	1:64:A:ILE:HG23	2	0.44
(1,7081)	1:78:A:THR:HG22	1:152:A:LEU:HD23	9	0.44
(1,7076)	1:152:A:LEU:HD22	1:75:A:ILE:HB	4	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7076)	1:152:A:LEU:HD23	1:75:A:ILE:HB	5	0.44
(1,7076)	1:152:A:LEU:HD23	1:75:A:ILE:HB	10	0.44
(1,7030)	1:151:A:THR:HA	1:151:A:THR:HG21	4	0.44
(1,7030)	1:151:A:THR:HA	1:151:A:THR:HG22	5	0.44
(1,7030)	1:151:A:THR:HA	1:151:A:THR:HG21	7	0.44
(1,6982)	1:145:A:VAL:HG22	1:145:A:VAL:HG21	1	0.44
(1,6982)	1:145:A:VAL:HG22	1:145:A:VAL:HG23	2	0.44
(1,6982)	1:145:A:VAL:HG22	1:145:A:VAL:HG23	3	0.44
(1,6982)	1:145:A:VAL:HG21	1:145:A:VAL:HG23	4	0.44
(1,6982)	1:145:A:VAL:HG21	1:145:A:VAL:HG23	5	0.44
(1,6982)	1:145:A:VAL:HG22	1:145:A:VAL:HG23	6	0.44
(1,6774)	1:133:A:ILE:HG22	1:77:A:ASP:HA	5	0.44
(1,6749)	1:85:A:GLY:HA3	1:133:A:ILE:HD12	6	0.44
(1,6749)	1:85:A:GLY:HA3	1:133:A:ILE:HD12	8	0.44
(1,6701)	1:131:A:LEU:HD22	1:132:A:HIS:HA	4	0.44
(1,6650)	1:129:A:ALA:HB1	1:104:A:TRP:HH2	6	0.44
(1,6645)	1:129:A:ALA:HB3	1:91:A:LEU:HB3	1	0.44
(1,6599)	1:127:A:THR:H	1:125:A:VAL:HG12	1	0.44
(1,6596)	1:125:A:VAL:HG11	1:97:A:THR:HG23	1	0.44
(1,6411)	1:109:A:ASN:HB2	1:111:A:THR:HG22	7	0.44
(1,6264)	1:98:A:ASP:H	1:97:A:THR:HG23	2	0.44
(1,6162)	1:91:A:LEU:HD11	1:138:A:TRP:HB3	4	0.44
(1,6147)	1:91:A:LEU:HD11	1:66:A:ILE:HB	4	0.44
(1,6110)	1:90:A:LEU:HD22	1:90:A:LEU:H	8	0.44
(1,6096)	1:90:A:LEU:HD13	1:90:A:LEU:H	3	0.44
(1,6043)	1:89:A:ILE:HD12	1:131:A:LEU:HA	3	0.44
(1,6043)	1:89:A:ILE:HD13	1:131:A:LEU:HA	9	0.44
(1,5940)	1:82:A:GLN:HG2	1:78:A:THR:HG23	1	0.44
(1,5940)	1:82:A:GLN:HG2	1:78:A:THR:HG22	4	0.44
(1,5860)	1:79:A:LEU:HD11	1:89:A:ILE:H	7	0.44
(1,5852)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	7	0.44
(1,5852)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	10	0.44
(1,5850)	1:79:A:LEU:H	1:79:A:LEU:HD11	2	0.44
(1,5850)	1:79:A:LEU:H	1:79:A:LEU:HD11	8	0.44
(1,5847)	1:79:A:LEU:HD13	1:86:A:PRO:HB3	8	0.44
(1,5770)	1:76:A:LEU:HD12	1:76:A:LEU:HD13	2	0.44
(1,5770)	1:76:A:LEU:HD12	1:76:A:LEU:HD11	3	0.44
(1,5770)	1:76:A:LEU:HD12	1:76:A:LEU:HD11	5	0.44
(1,5770)	1:76:A:LEU:HD12	1:76:A:LEU:HD13	7	0.44
(1,5770)	1:76:A:LEU:HD12	1:76:A:LEU:HD11	8	0.44
(1,5770)	1:76:A:LEU:HD12	1:76:A:LEU:HD11	9	0.44
(1,5691)	1:73:A:ALA:HB1	1:76:A:LEU:HB3	2	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5691)	1:73:A:ALA:HB3	1:76:A:LEU:HB3	5	0.44
(1,5691)	1:73:A:ALA:HB3	1:76:A:LEU:HB3	7	0.44
(1,5688)	1:73:A:ALA:HB2	1:114:A:LYS:HE3	10	0.44
(1,5563)	1:66:A:ILE:HG23	1:67:A:HIS:HB2	4	0.44
(1,5410)	1:61:A:ALA:HB2	1:29:A:TRP:HZ2	2	0.44
(1,5410)	1:61:A:ALA:HB2	1:29:A:TRP:HZ2	6	0.44
(1,5410)	1:61:A:ALA:HB3	1:29:A:TRP:HZ2	9	0.44
(1,5318)	1:52:A:VAL:HG21	1:52:A:VAL:H	1	0.44
(1,5318)	1:52:A:VAL:HG23	1:52:A:VAL:H	6	0.44
(1,5306)	1:52:A:VAL:HG13	1:48:A:SER:H	1	0.44
(1,5306)	1:52:A:VAL:HG12	1:48:A:SER:H	3	0.44
(1,5280)	1:50:A:GLU:HG3	1:49:A:ILE:HG22	1	0.44
(1,5261)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	8	0.44
(1,5257)	1:49:A:ILE:HG23	1:144:A:GLU:HG2	3	0.44
(1,5257)	1:49:A:ILE:HG23	1:144:A:GLU:HG2	4	0.44
(1,5190)	1:46:A:VAL:HG23	1:47:A:GLU:H	1	0.44
(1,5190)	1:46:A:VAL:HG23	1:47:A:GLU:H	8	0.44
(1,5164)	1:45:A:LYS:HG3	1:46:A:VAL:HG22	8	0.44
(1,4923)	1:35:A:SER:HA	1:156:A:ALA:HB2	2	0.44
(1,4883)	1:30:A:ILE:HG22	1:82:A:GLN:H	10	0.44
(1,4873)	1:31:A:GLN:H	1:30:A:ILE:HG23	2	0.44
(1,4870)	1:30:A:ILE:HG13	1:30:A:ILE:HG22	9	0.44
(1,4848)	1:30:A:ILE:HD12	1:29:A:TRP:HA	4	0.44
(1,4759)	1:137:A:GLU:H	1:131:A:LEU:HG	2	0.44
(1,4759)	1:137:A:GLU:H	1:131:A:LEU:HG	10	0.44
(1,4752)	1:106:A:ASP:H	1:93:A:MET:HB2	3	0.44
(1,4752)	1:106:A:ASP:H	1:93:A:MET:HB2	4	0.44
(1,4752)	1:106:A:ASP:H	1:93:A:MET:HB2	8	0.44
(1,4739)	1:75:A:ILE:H	1:32:A:PHE:HE2	10	0.44
(1,4718)	1:37:A:TYR:H	1:152:A:LEU:HD13	8	0.44
(1,4656)	1:91:A:LEU:HD21	1:115:A:TRP:HZ2	10	0.44
(1,4653)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	1	0.44
(1,4653)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	6	0.44
(1,4596)	1:40:A:LEU:HD11	1:59:A:HIS:HB3	8	0.44
(1,4580)	1:137:A:GLU:H	1:131:A:LEU:HG	2	0.44
(1,4580)	1:137:A:GLU:H	1:131:A:LEU:HG	10	0.44
(1,4573)	1:106:A:ASP:H	1:93:A:MET:HB2	3	0.44
(1,4573)	1:106:A:ASP:H	1:93:A:MET:HB2	4	0.44
(1,4573)	1:106:A:ASP:H	1:93:A:MET:HB2	8	0.44
(1,4560)	1:75:A:ILE:H	1:32:A:PHE:HE2	10	0.44
(1,4539)	1:37:A:TYR:H	1:152:A:LEU:HD13	8	0.44
(1,4477)	1:91:A:LEU:HD21	1:115:A:TRP:HZ2	10	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4474)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	1	0.44
(1,4474)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	6	0.44
(1,4417)	1:40:A:LEU:HD11	1:59:A:HIS:HB3	8	0.44
(1,4286)	1:149:A:GLU:H	1:43:A:ALA:HB2	8	0.44
(1,4278)	1:146:A:SER:H	1:145:A:VAL:HG12	2	0.44
(1,4278)	1:146:A:SER:H	1:145:A:VAL:HG13	3	0.44
(1,4278)	1:146:A:SER:H	1:145:A:VAL:HG11	4	0.44
(1,4278)	1:146:A:SER:H	1:145:A:VAL:HG12	9	0.44
(1,4278)	1:146:A:SER:H	1:145:A:VAL:HG11	10	0.44
(1,4113)	1:133:A:ILE:H	1:131:A:LEU:HD13	8	0.44
(1,4031)	1:126:A:ASP:H	1:124:A:LEU:HD23	5	0.44
(1,3672)	1:89:A:ILE:H	1:133:A:ILE:HD12	3	0.44
(1,3672)	1:89:A:ILE:H	1:133:A:ILE:HD12	9	0.44
(1,3622)	1:83:A:TRP:HE1	1:30:A:ILE:HD13	4	0.44
(1,3622)	1:83:A:TRP:HE1	1:30:A:ILE:HD12	6	0.44
(1,3524)	1:75:A:ILE:H	1:32:A:PHE:HD2	2	0.44
(1,2748)	1:105:A:PHE:HE1	1:49:A:ILE:HG22	4	0.44
(1,2627)	1:74:A:PHE:HZ	1:30:A:ILE:HD11	6	0.44
(1,2617)	1:74:A:PHE:HE1	1:75:A:ILE:HA	3	0.44
(1,2436)	1:157:A:ILE:HG21	1:35:A:SER:HB2	3	0.44
(1,2436)	1:157:A:ILE:HG23	1:35:A:SER:HB2	4	0.44
(1,2324)	1:152:A:LEU:HG	1:64:A:ILE:HG22	1	0.44
(1,2324)	1:152:A:LEU:HG	1:64:A:ILE:HG23	2	0.44
(1,2314)	1:78:A:THR:HG22	1:152:A:LEU:HD23	9	0.44
(1,2309)	1:152:A:LEU:HD22	1:75:A:ILE:HB	4	0.44
(1,2309)	1:152:A:LEU:HD23	1:75:A:ILE:HB	5	0.44
(1,2309)	1:152:A:LEU:HD23	1:75:A:ILE:HB	10	0.44
(1,2263)	1:151:A:THR:HA	1:151:A:THR:HG21	4	0.44
(1,2263)	1:151:A:THR:HA	1:151:A:THR:HG22	5	0.44
(1,2263)	1:151:A:THR:HA	1:151:A:THR:HG21	7	0.44
(1,2215)	1:145:A:VAL:HG22	1:145:A:VAL:HG21	1	0.44
(1,2215)	1:145:A:VAL:HG22	1:145:A:VAL:HG23	2	0.44
(1,2215)	1:145:A:VAL:HG22	1:145:A:VAL:HG23	3	0.44
(1,2215)	1:145:A:VAL:HG21	1:145:A:VAL:HG23	4	0.44
(1,2215)	1:145:A:VAL:HG21	1:145:A:VAL:HG23	5	0.44
(1,2215)	1:145:A:VAL:HG22	1:145:A:VAL:HG23	6	0.44
(1,2007)	1:133:A:ILE:HG22	1:77:A:ASP:HA	5	0.44
(1,1982)	1:85:A:GLY:HA3	1:133:A:ILE:HD12	6	0.44
(1,1982)	1:85:A:GLY:HA3	1:133:A:ILE:HD12	8	0.44
(1,1934)	1:131:A:LEU:HD22	1:132:A:HIS:HA	4	0.44
(1,1883)	1:129:A:ALA:HB1	1:104:A:TRP:HH2	6	0.44
(1,1878)	1:129:A:ALA:HB3	1:91:A:LEU:HB3	1	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1832)	1:127:A:THR:H	1:125:A:VAL:HG12	1	0.44
(1,1829)	1:125:A:VAL:HG11	1:97:A:THR:HG23	1	0.44
(1,1644)	1:109:A:ASN:HB2	1:111:A:THR:HG22	7	0.44
(1,1497)	1:98:A:ASP:H	1:97:A:THR:HG23	2	0.44
(1,1395)	1:91:A:LEU:HD11	1:138:A:TRP:HB3	4	0.44
(1,1380)	1:91:A:LEU:HD11	1:66:A:ILE:HB	4	0.44
(1,1343)	1:90:A:LEU:HD22	1:90:A:LEU:H	8	0.44
(1,1329)	1:90:A:LEU:HD13	1:90:A:LEU:H	3	0.44
(1,1276)	1:89:A:ILE:HD12	1:131:A:LEU:HA	3	0.44
(1,1276)	1:89:A:ILE:HD13	1:131:A:LEU:HA	9	0.44
(1,1173)	1:82:A:GLN:HG2	1:78:A:THR:HG23	1	0.44
(1,1173)	1:82:A:GLN:HG2	1:78:A:THR:HG22	4	0.44
(1,1093)	1:79:A:LEU:HD11	1:89:A:ILE:H	7	0.44
(1,1085)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	7	0.44
(1,1085)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	10	0.44
(1,1083)	1:79:A:LEU:H	1:79:A:LEU:HD11	2	0.44
(1,1083)	1:79:A:LEU:H	1:79:A:LEU:HD11	8	0.44
(1,1080)	1:79:A:LEU:HD13	1:86:A:PRO:HB3	8	0.44
(1,1003)	1:76:A:LEU:HD12	1:76:A:LEU:HD13	2	0.44
(1,1003)	1:76:A:LEU:HD12	1:76:A:LEU:HD11	3	0.44
(1,1003)	1:76:A:LEU:HD12	1:76:A:LEU:HD11	5	0.44
(1,1003)	1:76:A:LEU:HD12	1:76:A:LEU:HD13	7	0.44
(1,1003)	1:76:A:LEU:HD12	1:76:A:LEU:HD11	8	0.44
(1,1003)	1:76:A:LEU:HD12	1:76:A:LEU:HD11	9	0.44
(1,924)	1:73:A:ALA:HB1	1:76:A:LEU:HB3	2	0.44
(1,924)	1:73:A:ALA:HB3	1:76:A:LEU:HB3	5	0.44
(1,924)	1:73:A:ALA:HB3	1:76:A:LEU:HB3	7	0.44
(1,921)	1:73:A:ALA:HB2	1:114:A:LYS:HE3	10	0.44
(1,796)	1:66:A:ILE:HG23	1:67:A:HIS:HB2	4	0.44
(1,643)	1:61:A:ALA:HB2	1:29:A:TRP:HZ2	2	0.44
(1,643)	1:61:A:ALA:HB2	1:29:A:TRP:HZ2	6	0.44
(1,643)	1:61:A:ALA:HB3	1:29:A:TRP:HZ2	9	0.44
(1,551)	1:52:A:VAL:HG21	1:52:A:VAL:H	1	0.44
(1,551)	1:52:A:VAL:HG23	1:52:A:VAL:H	6	0.44
(1,539)	1:52:A:VAL:HG13	1:48:A:SER:H	1	0.44
(1,539)	1:52:A:VAL:HG12	1:48:A:SER:H	3	0.44
(1,513)	1:50:A:GLU:HG3	1:49:A:ILE:HG22	1	0.44
(1,494)	1:49:A:ILE:HG21	1:49:A:ILE:HG23	8	0.44
(1,490)	1:49:A:ILE:HG23	1:144:A:GLU:HG2	3	0.44
(1,490)	1:49:A:ILE:HG23	1:144:A:GLU:HG2	4	0.44
(1,423)	1:46:A:VAL:HG23	1:47:A:GLU:H	1	0.44
(1,423)	1:46:A:VAL:HG23	1:47:A:GLU:H	8	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,397)	1:45:A:LYS:HG3	1:46:A:VAL:HG22	8	0.44
(1,156)	1:35:A:SER:HA	1:156:A:ALA:HB2	2	0.44
(1,116)	1:30:A:ILE:HG22	1:82:A:GLN:H	10	0.44
(1,106)	1:31:A:GLN:H	1:30:A:ILE:HG23	2	0.44
(1,103)	1:30:A:ILE:HG13	1:30:A:ILE:HG22	9	0.44
(1,81)	1:30:A:ILE:HD12	1:29:A:TRP:HA	4	0.44
(1,9045)	1:146:A:SER:H	1:145:A:VAL:HG13	5	0.43
(1,9045)	1:146:A:SER:H	1:145:A:VAL:HG12	6	0.43
(1,8983)	1:140:A:LYS:H	1:124:A:LEU:HD22	4	0.43
(1,8798)	1:126:A:ASP:H	1:124:A:LEU:HD23	7	0.43
(1,8798)	1:126:A:ASP:H	1:124:A:LEU:HD23	9	0.43
(1,8798)	1:126:A:ASP:H	1:124:A:LEU:HD22	10	0.43
(1,8439)	1:89:A:ILE:H	1:133:A:ILE:HD12	7	0.43
(1,8439)	1:89:A:ILE:H	1:133:A:ILE:HD13	8	0.43
(1,8291)	1:75:A:ILE:H	1:32:A:PHE:HD2	5	0.43
(1,7993)	1:54:A:ASN:H	1:52:A:VAL:HG21	1	0.43
(1,7993)	1:54:A:ASN:H	1:52:A:VAL:HG22	5	0.43
(1,7494)	1:91:A:LEU:HD21	1:104:A:TRP:HZ2	5	0.43
(1,7478)	1:104:A:TRP:HE3	1:91:A:LEU:HD13	2	0.43
(1,7394)	1:74:A:PHE:HZ	1:30:A:ILE:HD12	10	0.43
(1,7384)	1:74:A:PHE:HE1	1:75:A:ILE:HA	7	0.43
(1,7375)	1:71:A:GLU:HA	1:74:A:PHE:HD1	4	0.43
(1,7203)	1:157:A:ILE:HG21	1:35:A:SER:HB2	6	0.43
(1,7203)	1:157:A:ILE:HG23	1:35:A:SER:HB2	8	0.43
(1,7091)	1:152:A:LEU:HG	1:64:A:ILE:HG23	5	0.43
(1,7030)	1:151:A:THR:HA	1:151:A:THR:HG22	1	0.43
(1,7030)	1:151:A:THR:HA	1:151:A:THR:HG23	2	0.43
(1,7030)	1:151:A:THR:HA	1:151:A:THR:HG21	6	0.43
(1,7030)	1:151:A:THR:HA	1:151:A:THR:HG22	8	0.43
(1,7030)	1:151:A:THR:HA	1:151:A:THR:HG23	10	0.43
(1,6982)	1:145:A:VAL:HG22	1:145:A:VAL:HG23	7	0.43
(1,6982)	1:145:A:VAL:HG22	1:145:A:VAL:HG21	8	0.43
(1,6982)	1:145:A:VAL:HG22	1:145:A:VAL:HG23	9	0.43
(1,6982)	1:145:A:VAL:HG22	1:145:A:VAL:HG21	10	0.43
(1,6839)	1:116:A:THR:HG21	1:137:A:GLU:HG2	8	0.43
(1,6749)	1:85:A:GLY:HA3	1:133:A:ILE:HD11	3	0.43
(1,6749)	1:85:A:GLY:HA3	1:133:A:ILE:HD13	4	0.43
(1,6749)	1:85:A:GLY:HA3	1:133:A:ILE:HD11	7	0.43
(1,6749)	1:85:A:GLY:HA3	1:133:A:ILE:HD11	9	0.43
(1,6651)	1:128:A:CYS:HA	1:129:A:ALA:HB2	8	0.43
(1,6645)	1:129:A:ALA:HB2	1:91:A:LEU:HB3	3	0.43
(1,6419)	1:111:A:THR:HG22	1:111:A:THR:HG23	1	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6419)	1:111:A:THR:HG21	1:111:A:THR:HG22	3	0.43
(1,6419)	1:111:A:THR:HG21	1:111:A:THR:HG22	4	0.43
(1,6419)	1:111:A:THR:HG21	1:111:A:THR:HG23	5	0.43
(1,6419)	1:111:A:THR:HG21	1:111:A:THR:HG23	6	0.43
(1,6419)	1:111:A:THR:HG21	1:111:A:THR:HG22	8	0.43
(1,6419)	1:111:A:THR:HG21	1:111:A:THR:HG23	10	0.43
(1,6389)	1:109:A:ASN:HB2	1:111:A:THR:HG21	4	0.43
(1,6296)	1:101:A:SER:HB2	1:103:A:LYS:HG2	6	0.43
(1,6288)	1:100:A:ALA:HB1	1:99:A:ASP:HA	4	0.43
(1,6287)	1:99:A:ASP:H	1:100:A:ALA:HB2	3	0.43
(1,6284)	1:100:A:ALA:HB1	1:97:A:THR:HB	1	0.43
(1,6284)	1:100:A:ALA:HB3	1:97:A:THR:HB	2	0.43
(1,6116)	1:90:A:LEU:HD23	1:130:A:PHE:HZ	9	0.43
(1,6099)	1:90:A:LEU:HD11	1:130:A:PHE:HZ	6	0.43
(1,6096)	1:90:A:LEU:HD13	1:90:A:LEU:H	7	0.43
(1,6072)	1:89:A:ILE:HG12	1:89:A:ILE:HG22	7	0.43
(1,5940)	1:82:A:GLN:HG2	1:78:A:THR:HG23	2	0.43
(1,5852)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	3	0.43
(1,5852)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	5	0.43
(1,5852)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	9	0.43
(1,5850)	1:79:A:LEU:H	1:79:A:LEU:HD13	1	0.43
(1,5850)	1:79:A:LEU:H	1:79:A:LEU:HD13	4	0.43
(1,5744)	1:75:A:ILE:HG21	1:65:A:SER:H	7	0.43
(1,5743)	1:75:A:ILE:HG22	1:78:A:THR:HB	7	0.43
(1,5715)	1:75:A:ILE:HA	1:79:A:LEU:HD23	2	0.43
(1,5715)	1:75:A:ILE:HA	1:79:A:LEU:HD23	3	0.43
(1,5715)	1:75:A:ILE:HA	1:79:A:LEU:HD23	4	0.43
(1,5691)	1:73:A:ALA:HB3	1:76:A:LEU:HB3	10	0.43
(1,5677)	1:72:A:ASN:HB2	1:73:A:ALA:HB3	6	0.43
(1,5603)	1:69:A:GLU:HA	1:73:A:ALA:HB3	4	0.43
(1,5563)	1:66:A:ILE:HG23	1:67:A:HIS:HB2	10	0.43
(1,5318)	1:52:A:VAL:HG21	1:52:A:VAL:H	10	0.43
(1,5306)	1:52:A:VAL:HG11	1:48:A:SER:H	8	0.43
(1,5257)	1:49:A:ILE:HG23	1:144:A:GLU:HG2	1	0.43
(1,5257)	1:49:A:ILE:HG22	1:144:A:GLU:HG2	5	0.43
(1,5257)	1:49:A:ILE:HG22	1:144:A:GLU:HG2	9	0.43
(1,5254)	1:49:A:ILE:HG23	1:105:A:PHE:HD2	8	0.43
(1,5203)	1:46:A:VAL:HG11	1:47:A:GLU:HG2	2	0.43
(1,5190)	1:46:A:VAL:HG22	1:47:A:GLU:H	6	0.43
(1,5190)	1:46:A:VAL:HG22	1:47:A:GLU:H	9	0.43
(1,4923)	1:35:A:SER:HA	1:156:A:ALA:HB1	4	0.43
(1,4883)	1:30:A:ILE:HG21	1:82:A:GLN:H	1	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4873)	1:31:A:GLN:H	1:30:A:ILE:HG23	8	0.43
(1,4848)	1:30:A:ILE:HD11	1:29:A:TRP:HA	2	0.43
(1,4759)	1:137:A:GLU:H	1:131:A:LEU:HG	3	0.43
(1,4759)	1:137:A:GLU:H	1:131:A:LEU:HG	4	0.43
(1,4759)	1:137:A:GLU:H	1:131:A:LEU:HG	9	0.43
(1,4728)	1:53:A:ARG:HE	1:62:A:ASP:HB2	7	0.43
(1,4727)	1:48:A:SER:H	1:45:A:LYS:HG3	7	0.43
(1,4718)	1:37:A:TYR:H	1:152:A:LEU:HD13	2	0.43
(1,4718)	1:37:A:TYR:H	1:152:A:LEU:HD12	5	0.43
(1,4718)	1:37:A:TYR:H	1:152:A:LEU:HD12	9	0.43
(1,4699)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	9	0.43
(1,4653)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	7	0.43
(1,4635)	1:75:A:ILE:HD12	1:78:A:THR:H	10	0.43
(1,4626)	1:66:A:ILE:HG23	1:113:A:ASP:H	3	0.43
(1,4626)	1:66:A:ILE:HG23	1:113:A:ASP:H	9	0.43
(1,4580)	1:137:A:GLU:H	1:131:A:LEU:HG	3	0.43
(1,4580)	1:137:A:GLU:H	1:131:A:LEU:HG	4	0.43
(1,4580)	1:137:A:GLU:H	1:131:A:LEU:HG	9	0.43
(1,4549)	1:53:A:ARG:HE	1:62:A:ASP:HB2	7	0.43
(1,4548)	1:48:A:SER:H	1:45:A:LYS:HG3	7	0.43
(1,4539)	1:37:A:TYR:H	1:152:A:LEU:HD13	2	0.43
(1,4539)	1:37:A:TYR:H	1:152:A:LEU:HD12	5	0.43
(1,4539)	1:37:A:TYR:H	1:152:A:LEU:HD12	9	0.43
(1,4520)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	9	0.43
(1,4474)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	7	0.43
(1,4456)	1:75:A:ILE:HD12	1:78:A:THR:H	10	0.43
(1,4447)	1:66:A:ILE:HG23	1:113:A:ASP:H	3	0.43
(1,4447)	1:66:A:ILE:HG23	1:113:A:ASP:H	9	0.43
(1,4278)	1:146:A:SER:H	1:145:A:VAL:HG13	5	0.43
(1,4278)	1:146:A:SER:H	1:145:A:VAL:HG12	6	0.43
(1,4216)	1:140:A:LYS:H	1:124:A:LEU:HD22	4	0.43
(1,4031)	1:126:A:ASP:H	1:124:A:LEU:HD23	7	0.43
(1,4031)	1:126:A:ASP:H	1:124:A:LEU:HD23	9	0.43
(1,4031)	1:126:A:ASP:H	1:124:A:LEU:HD22	10	0.43
(1,3672)	1:89:A:ILE:H	1:133:A:ILE:HD12	7	0.43
(1,3672)	1:89:A:ILE:H	1:133:A:ILE:HD13	8	0.43
(1,3524)	1:75:A:ILE:H	1:32:A:PHE:HD2	5	0.43
(1,3226)	1:54:A:ASN:H	1:52:A:VAL:HG21	1	0.43
(1,3226)	1:54:A:ASN:H	1:52:A:VAL:HG22	5	0.43
(1,2727)	1:91:A:LEU:HD21	1:104:A:TRP:HZ2	5	0.43
(1,2711)	1:104:A:TRP:HE3	1:91:A:LEU:HD13	2	0.43
(1,2627)	1:74:A:PHE:HZ	1:30:A:ILE:HD12	10	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2617)	1:74:A:PHE:HE1	1:75:A:ILE:HA	7	0.43
(1,2608)	1:71:A:GLU:HA	1:74:A:PHE:HD1	4	0.43
(1,2436)	1:157:A:ILE:HG21	1:35:A:SER:HB2	6	0.43
(1,2436)	1:157:A:ILE:HG23	1:35:A:SER:HB2	8	0.43
(1,2324)	1:152:A:LEU:HG	1:64:A:ILE:HG23	5	0.43
(1,2263)	1:151:A:THR:HA	1:151:A:THR:HG22	1	0.43
(1,2263)	1:151:A:THR:HA	1:151:A:THR:HG23	2	0.43
(1,2263)	1:151:A:THR:HA	1:151:A:THR:HG21	6	0.43
(1,2263)	1:151:A:THR:HA	1:151:A:THR:HG22	8	0.43
(1,2263)	1:151:A:THR:HA	1:151:A:THR:HG23	10	0.43
(1,2215)	1:145:A:VAL:HG22	1:145:A:VAL:HG23	7	0.43
(1,2215)	1:145:A:VAL:HG22	1:145:A:VAL:HG21	8	0.43
(1,2215)	1:145:A:VAL:HG22	1:145:A:VAL:HG23	9	0.43
(1,2215)	1:145:A:VAL:HG22	1:145:A:VAL:HG21	10	0.43
(1,2072)	1:116:A:THR:HG21	1:137:A:GLU:HG2	8	0.43
(1,1982)	1:85:A:GLY:HA3	1:133:A:ILE:HD11	3	0.43
(1,1982)	1:85:A:GLY:HA3	1:133:A:ILE:HD13	4	0.43
(1,1982)	1:85:A:GLY:HA3	1:133:A:ILE:HD11	7	0.43
(1,1982)	1:85:A:GLY:HA3	1:133:A:ILE:HD11	9	0.43
(1,1884)	1:128:A:CYS:HA	1:129:A:ALA:HB2	8	0.43
(1,1878)	1:129:A:ALA:HB2	1:91:A:LEU:HB3	3	0.43
(1,1652)	1:111:A:THR:HG22	1:111:A:THR:HG23	1	0.43
(1,1652)	1:111:A:THR:HG21	1:111:A:THR:HG22	3	0.43
(1,1652)	1:111:A:THR:HG21	1:111:A:THR:HG22	4	0.43
(1,1652)	1:111:A:THR:HG21	1:111:A:THR:HG23	5	0.43
(1,1652)	1:111:A:THR:HG21	1:111:A:THR:HG23	6	0.43
(1,1652)	1:111:A:THR:HG21	1:111:A:THR:HG22	8	0.43
(1,1652)	1:111:A:THR:HG21	1:111:A:THR:HG23	10	0.43
(1,1622)	1:109:A:ASN:HB2	1:111:A:THR:HG21	4	0.43
(1,1529)	1:101:A:SER:HB2	1:103:A:LYS:HG2	6	0.43
(1,1521)	1:100:A:ALA:HB1	1:99:A:ASP:HA	4	0.43
(1,1520)	1:99:A:ASP:H	1:100:A:ALA:HB2	3	0.43
(1,1517)	1:100:A:ALA:HB1	1:97:A:THR:HB	1	0.43
(1,1517)	1:100:A:ALA:HB3	1:97:A:THR:HB	2	0.43
(1,1349)	1:90:A:LEU:HD23	1:130:A:PHE:HZ	9	0.43
(1,1332)	1:90:A:LEU:HD11	1:130:A:PHE:HZ	6	0.43
(1,1329)	1:90:A:LEU:HD13	1:90:A:LEU:H	7	0.43
(1,1305)	1:89:A:ILE:HG12	1:89:A:ILE:HG22	7	0.43
(1,1173)	1:82:A:GLN:HG2	1:78:A:THR:HG23	2	0.43
(1,1085)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	3	0.43
(1,1085)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	5	0.43
(1,1085)	1:79:A:LEU:HB2	1:79:A:LEU:HD12	9	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1083)	1:79:A:LEU:H	1:79:A:LEU:HD13	1	0.43
(1,1083)	1:79:A:LEU:H	1:79:A:LEU:HD13	4	0.43
(1,977)	1:75:A:ILE:HG21	1:65:A:SER:H	7	0.43
(1,976)	1:75:A:ILE:HG22	1:78:A:THR:HB	7	0.43
(1,948)	1:75:A:ILE:HA	1:79:A:LEU:HD23	2	0.43
(1,948)	1:75:A:ILE:HA	1:79:A:LEU:HD23	3	0.43
(1,948)	1:75:A:ILE:HA	1:79:A:LEU:HD23	4	0.43
(1,924)	1:73:A:ALA:HB3	1:76:A:LEU:HB3	10	0.43
(1,910)	1:72:A:ASN:HB2	1:73:A:ALA:HB3	6	0.43
(1,836)	1:69:A:GLU:HA	1:73:A:ALA:HB3	4	0.43
(1,796)	1:66:A:ILE:HG23	1:67:A:HIS:HB2	10	0.43
(1,551)	1:52:A:VAL:HG21	1:52:A:VAL:H	10	0.43
(1,539)	1:52:A:VAL:HG11	1:48:A:SER:H	8	0.43
(1,490)	1:49:A:ILE:HG23	1:144:A:GLU:HG2	1	0.43
(1,490)	1:49:A:ILE:HG22	1:144:A:GLU:HG2	5	0.43
(1,490)	1:49:A:ILE:HG22	1:144:A:GLU:HG2	9	0.43
(1,487)	1:49:A:ILE:HG23	1:105:A:PHE:HD2	8	0.43
(1,436)	1:46:A:VAL:HG11	1:47:A:GLU:HG2	2	0.43
(1,423)	1:46:A:VAL:HG22	1:47:A:GLU:H	6	0.43
(1,423)	1:46:A:VAL:HG22	1:47:A:GLU:H	9	0.43
(1,156)	1:35:A:SER:HA	1:156:A:ALA:HB1	4	0.43
(1,116)	1:30:A:ILE:HG21	1:82:A:GLN:H	1	0.43
(1,106)	1:31:A:GLN:H	1:30:A:ILE:HG23	8	0.43
(1,81)	1:30:A:ILE:HD11	1:29:A:TRP:HA	2	0.43
(1,8961)	1:139:A:LYS:H	1:116:A:THR:HG23	1	0.42
(1,8961)	1:139:A:LYS:H	1:116:A:THR:HG21	7	0.42
(1,8961)	1:139:A:LYS:H	1:116:A:THR:HG22	9	0.42
(1,8397)	1:83:A:TRP:HE1	1:78:A:THR:HG23	5	0.42
(1,8389)	1:83:A:TRP:HE1	1:30:A:ILE:HD13	3	0.42
(1,8336)	1:78:A:THR:H	1:79:A:LEU:HD22	7	0.42
(1,8291)	1:75:A:ILE:H	1:32:A:PHE:HD2	8	0.42
(1,8273)	1:73:A:ALA:H	1:66:A:ILE:HG22	10	0.42
(1,8133)	1:63:A:MET:H	1:63:A:MET:HE2	1	0.42
(1,8133)	1:63:A:MET:H	1:63:A:MET:HE2	4	0.42
(1,8024)	1:55:A:GLN:HE21	1:44:A:ILE:HG21	1	0.42
(1,7993)	1:54:A:ASN:H	1:52:A:VAL:HG23	6	0.42
(1,7993)	1:54:A:ASN:H	1:52:A:VAL:HG21	9	0.42
(1,7928)	1:49:A:ILE:H	1:46:A:VAL:HG12	4	0.42
(1,7426)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	5	0.42
(1,7394)	1:74:A:PHE:HZ	1:30:A:ILE:HD12	1	0.42
(1,7384)	1:74:A:PHE:HE1	1:75:A:ILE:HA	8	0.42
(1,7211)	1:157:A:ILE:HG21	1:157:A:ILE:HG13	7	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7203)	1:157:A:ILE:HG22	1:35:A:SER:HB2	5	0.42
(1,7203)	1:157:A:ILE:HG22	1:35:A:SER:HB2	9	0.42
(1,7172)	1:156:A:ALA:HB1	1:35:A:SER:HB2	2	0.42
(1,7083)	1:152:A:LEU:HD21	1:78:A:THR:HB	3	0.42
(1,7076)	1:152:A:LEU:HD21	1:75:A:ILE:HB	2	0.42
(1,7006)	1:148:A:VAL:HG22	1:148:A:VAL:HG21	1	0.42
(1,7006)	1:148:A:VAL:HG21	1:148:A:VAL:HG23	2	0.42
(1,7006)	1:148:A:VAL:HG21	1:148:A:VAL:HG23	3	0.42
(1,7006)	1:148:A:VAL:HG21	1:148:A:VAL:HG23	4	0.42
(1,7006)	1:148:A:VAL:HG21	1:148:A:VAL:HG23	5	0.42
(1,7006)	1:148:A:VAL:HG22	1:148:A:VAL:HG23	6	0.42
(1,7006)	1:148:A:VAL:HG21	1:148:A:VAL:HG23	7	0.42
(1,7006)	1:148:A:VAL:HG22	1:148:A:VAL:HG21	8	0.42
(1,7006)	1:148:A:VAL:HG21	1:148:A:VAL:HG23	9	0.42
(1,7006)	1:148:A:VAL:HG21	1:148:A:VAL:HG23	10	0.42
(1,6708)	1:131:A:LEU:HD22	1:88:A:ASP:HA	3	0.42
(1,6681)	1:131:A:LEU:HD13	1:89:A:ILE:H	5	0.42
(1,6419)	1:111:A:THR:HG21	1:111:A:THR:HG22	2	0.42
(1,6419)	1:111:A:THR:HG22	1:111:A:THR:HG23	7	0.42
(1,6389)	1:109:A:ASN:HB2	1:111:A:THR:HG23	5	0.42
(1,6389)	1:109:A:ASN:HB2	1:111:A:THR:HG23	10	0.42
(1,6288)	1:100:A:ALA:HB1	1:99:A:ASP:HA	10	0.42
(1,6172)	1:91:A:LEU:HD21	1:66:A:ILE:HB	5	0.42
(1,6096)	1:90:A:LEU:HD12	1:90:A:LEU:H	4	0.42
(1,6096)	1:90:A:LEU:HD11	1:90:A:LEU:H	5	0.42
(1,6043)	1:89:A:ILE:HD11	1:131:A:LEU:HA	4	0.42
(1,6043)	1:89:A:ILE:HD13	1:131:A:LEU:HA	5	0.42
(1,5847)	1:79:A:LEU:HD13	1:86:A:PRO:HB3	2	0.42
(1,5743)	1:75:A:ILE:HG21	1:78:A:THR:HB	3	0.42
(1,5691)	1:73:A:ALA:HB1	1:76:A:LEU:HB3	4	0.42
(1,5691)	1:73:A:ALA:HB3	1:76:A:LEU:HB3	8	0.42
(1,5603)	1:69:A:GLU:HA	1:73:A:ALA:HB2	1	0.42
(1,5412)	1:61:A:ALA:HB3	1:40:A:LEU:HD22	5	0.42
(1,5385)	1:58:A:ASP:H	1:57:A:THR:HG21	5	0.42
(1,5385)	1:58:A:ASP:H	1:57:A:THR:HG21	7	0.42
(1,5306)	1:52:A:VAL:HG13	1:48:A:SER:H	5	0.42
(1,5306)	1:52:A:VAL:HG13	1:48:A:SER:H	6	0.42
(1,5280)	1:50:A:GLU:HG3	1:49:A:ILE:HG22	3	0.42
(1,5280)	1:50:A:GLU:HG3	1:49:A:ILE:HG23	6	0.42
(1,5257)	1:49:A:ILE:HG21	1:144:A:GLU:HG2	7	0.42
(1,5205)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	7	0.42
(1,5203)	1:46:A:VAL:HG13	1:47:A:GLU:HG2	1	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5190)	1:46:A:VAL:HG21	1:47:A:GLU:H	2	0.42
(1,5190)	1:46:A:VAL:HG22	1:47:A:GLU:H	4	0.42
(1,5067)	1:40:A:LEU:HD11	1:152:A:LEU:HD12	10	0.42
(1,4883)	1:30:A:ILE:HG21	1:82:A:GLN:H	2	0.42
(1,4873)	1:31:A:GLN:H	1:30:A:ILE:HG23	6	0.42
(1,4739)	1:75:A:ILE:H	1:32:A:PHE:HE2	3	0.42
(1,4739)	1:75:A:ILE:H	1:32:A:PHE:HE2	7	0.42
(1,4718)	1:37:A:TYR:H	1:152:A:LEU:HD11	7	0.42
(1,4699)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	4	0.42
(1,4666)	1:131:A:LEU:HD13	1:137:A:GLU:HB2	2	0.42
(1,4666)	1:131:A:LEU:HD13	1:137:A:GLU:HB2	5	0.42
(1,4663)	1:125:A:VAL:HG11	1:142:A:ASN:HA	2	0.42
(1,4653)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	2	0.42
(1,4653)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	4	0.42
(1,4625)	1:66:A:ILE:HD12	1:136:A:GLY:HA2	9	0.42
(1,4592)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	4	0.42
(1,4560)	1:75:A:ILE:H	1:32:A:PHE:HE2	3	0.42
(1,4560)	1:75:A:ILE:H	1:32:A:PHE:HE2	7	0.42
(1,4539)	1:37:A:TYR:H	1:152:A:LEU:HD11	7	0.42
(1,4520)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	4	0.42
(1,4487)	1:131:A:LEU:HD13	1:137:A:GLU:HB2	2	0.42
(1,4487)	1:131:A:LEU:HD13	1:137:A:GLU:HB2	5	0.42
(1,4484)	1:125:A:VAL:HG11	1:142:A:ASN:HA	2	0.42
(1,4474)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	2	0.42
(1,4474)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	4	0.42
(1,4446)	1:66:A:ILE:HD12	1:136:A:GLY:HA2	9	0.42
(1,4413)	1:36:A:CYS:HB3	1:153:A:CYS:HB2	4	0.42
(1,4194)	1:139:A:LYS:H	1:116:A:THR:HG23	1	0.42
(1,4194)	1:139:A:LYS:H	1:116:A:THR:HG21	7	0.42
(1,4194)	1:139:A:LYS:H	1:116:A:THR:HG22	9	0.42
(1,3630)	1:83:A:TRP:HE1	1:78:A:THR:HG23	5	0.42
(1,3622)	1:83:A:TRP:HE1	1:30:A:ILE:HD13	3	0.42
(1,3569)	1:78:A:THR:H	1:79:A:LEU:HD22	7	0.42
(1,3524)	1:75:A:ILE:H	1:32:A:PHE:HD2	8	0.42
(1,3506)	1:73:A:ALA:H	1:66:A:ILE:HG22	10	0.42
(1,3366)	1:63:A:MET:H	1:63:A:MET:HE2	1	0.42
(1,3366)	1:63:A:MET:H	1:63:A:MET:HE2	4	0.42
(1,3257)	1:55:A:GLN:HE21	1:44:A:ILE:HG21	1	0.42
(1,3226)	1:54:A:ASN:H	1:52:A:VAL:HG23	6	0.42
(1,3226)	1:54:A:ASN:H	1:52:A:VAL:HG21	9	0.42
(1,3161)	1:49:A:ILE:H	1:46:A:VAL:HG12	4	0.42
(1,2659)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	5	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2627)	1:74:A:PHE:HZ	1:30:A:ILE:HD12	1	0.42
(1,2617)	1:74:A:PHE:HE1	1:75:A:ILE:HA	8	0.42
(1,2444)	1:157:A:ILE:HG21	1:157:A:ILE:HG13	7	0.42
(1,2436)	1:157:A:ILE:HG22	1:35:A:SER:HB2	5	0.42
(1,2436)	1:157:A:ILE:HG22	1:35:A:SER:HB2	9	0.42
(1,2405)	1:156:A:ALA:HB1	1:35:A:SER:HB2	2	0.42
(1,2316)	1:152:A:LEU:HD21	1:78:A:THR:HB	3	0.42
(1,2309)	1:152:A:LEU:HD21	1:75:A:ILE:HB	2	0.42
(1,2239)	1:148:A:VAL:HG22	1:148:A:VAL:HG21	1	0.42
(1,2239)	1:148:A:VAL:HG21	1:148:A:VAL:HG23	2	0.42
(1,2239)	1:148:A:VAL:HG21	1:148:A:VAL:HG23	3	0.42
(1,2239)	1:148:A:VAL:HG21	1:148:A:VAL:HG23	4	0.42
(1,2239)	1:148:A:VAL:HG21	1:148:A:VAL:HG23	5	0.42
(1,2239)	1:148:A:VAL:HG22	1:148:A:VAL:HG23	6	0.42
(1,2239)	1:148:A:VAL:HG21	1:148:A:VAL:HG23	7	0.42
(1,2239)	1:148:A:VAL:HG22	1:148:A:VAL:HG21	8	0.42
(1,2239)	1:148:A:VAL:HG21	1:148:A:VAL:HG23	9	0.42
(1,2239)	1:148:A:VAL:HG21	1:148:A:VAL:HG23	10	0.42
(1,1941)	1:131:A:LEU:HD22	1:88:A:ASP:HA	3	0.42
(1,1914)	1:131:A:LEU:HD13	1:89:A:ILE:H	5	0.42
(1,1652)	1:111:A:THR:HG21	1:111:A:THR:HG22	2	0.42
(1,1652)	1:111:A:THR:HG22	1:111:A:THR:HG23	7	0.42
(1,1622)	1:109:A:ASN:HB2	1:111:A:THR:HG23	5	0.42
(1,1622)	1:109:A:ASN:HB2	1:111:A:THR:HG23	10	0.42
(1,1521)	1:100:A:ALA:HB1	1:99:A:ASP:HA	10	0.42
(1,1405)	1:91:A:LEU:HD21	1:66:A:ILE:HB	5	0.42
(1,1329)	1:90:A:LEU:HD12	1:90:A:LEU:H	4	0.42
(1,1329)	1:90:A:LEU:HD11	1:90:A:LEU:H	5	0.42
(1,1276)	1:89:A:ILE:HD11	1:131:A:LEU:HA	4	0.42
(1,1276)	1:89:A:ILE:HD13	1:131:A:LEU:HA	5	0.42
(1,1080)	1:79:A:LEU:HD13	1:86:A:PRO:HB3	2	0.42
(1,976)	1:75:A:ILE:HG21	1:78:A:THR:HB	3	0.42
(1,924)	1:73:A:ALA:HB1	1:76:A:LEU:HB3	4	0.42
(1,924)	1:73:A:ALA:HB3	1:76:A:LEU:HB3	8	0.42
(1,836)	1:69:A:GLU:HA	1:73:A:ALA:HB2	1	0.42
(1,645)	1:61:A:ALA:HB3	1:40:A:LEU:HD22	5	0.42
(1,618)	1:58:A:ASP:H	1:57:A:THR:HG21	5	0.42
(1,618)	1:58:A:ASP:H	1:57:A:THR:HG21	7	0.42
(1,539)	1:52:A:VAL:HG13	1:48:A:SER:H	5	0.42
(1,539)	1:52:A:VAL:HG13	1:48:A:SER:H	6	0.42
(1,513)	1:50:A:GLU:HG3	1:49:A:ILE:HG22	3	0.42
(1,513)	1:50:A:GLU:HG3	1:49:A:ILE:HG23	6	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,490)	1:49:A:ILE:HG21	1:144:A:GLU:HG2	7	0.42
(1,438)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	7	0.42
(1,436)	1:46:A:VAL:HG13	1:47:A:GLU:HG2	1	0.42
(1,423)	1:46:A:VAL:HG21	1:47:A:GLU:H	2	0.42
(1,423)	1:46:A:VAL:HG22	1:47:A:GLU:H	4	0.42
(1,300)	1:40:A:LEU:HD11	1:152:A:LEU:HD12	10	0.42
(1,116)	1:30:A:ILE:HG21	1:82:A:GLN:H	2	0.42
(1,106)	1:31:A:GLN:H	1:30:A:ILE:HG23	6	0.42
(1,9159)	1:159:A:TYR:H	1:157:A:ILE:HG23	1	0.41
(1,9045)	1:146:A:SER:H	1:145:A:VAL:HG13	1	0.41
(1,9045)	1:146:A:SER:H	1:145:A:VAL:HG11	7	0.41
(1,8961)	1:139:A:LYS:H	1:116:A:THR:HG22	10	0.41
(1,8821)	1:129:A:ALA:H	1:91:A:LEU:HD22	7	0.41
(1,8389)	1:83:A:TRP:HE1	1:30:A:ILE:HD13	1	0.41
(1,8389)	1:83:A:TRP:HE1	1:30:A:ILE:HD12	2	0.41
(1,8389)	1:83:A:TRP:HE1	1:30:A:ILE:HD11	8	0.41
(1,8389)	1:83:A:TRP:HE1	1:30:A:ILE:HD13	10	0.41
(1,8133)	1:63:A:MET:H	1:63:A:MET:HE3	2	0.41
(1,7993)	1:54:A:ASN:H	1:52:A:VAL:HG22	7	0.41
(1,7993)	1:54:A:ASN:H	1:52:A:VAL:HG21	10	0.41
(1,7515)	1:105:A:PHE:HE1	1:49:A:ILE:HG22	3	0.41
(1,7403)	1:83:A:TRP:HH2	1:37:A:TYR:HD1	4	0.41
(1,7206)	1:157:A:ILE:HG22	1:23:A:ASP:HA	4	0.41
(1,7203)	1:157:A:ILE:HG23	1:35:A:SER:HB2	2	0.41
(1,7203)	1:157:A:ILE:HG22	1:35:A:SER:HB2	10	0.41
(1,7075)	1:152:A:LEU:HD11	1:153:A:CYS:HB2	6	0.41
(1,6749)	1:85:A:GLY:HA3	1:133:A:ILE:HD11	10	0.41
(1,6708)	1:131:A:LEU:HD22	1:88:A:ASP:HA	2	0.41
(1,6708)	1:131:A:LEU:HD21	1:88:A:ASP:HA	9	0.41
(1,6645)	1:129:A:ALA:HB3	1:91:A:LEU:HB3	4	0.41
(1,6580)	1:124:A:LEU:HD21	1:124:A:LEU:HD23	1	0.41
(1,6580)	1:124:A:LEU:HD22	1:124:A:LEU:HD21	2	0.41
(1,6580)	1:124:A:LEU:HD22	1:124:A:LEU:HD21	3	0.41
(1,6580)	1:124:A:LEU:HD22	1:124:A:LEU:HD21	7	0.41
(1,6419)	1:111:A:THR:HG22	1:111:A:THR:HG23	9	0.41
(1,6296)	1:101:A:SER:HB2	1:103:A:LYS:HG2	2	0.41
(1,6284)	1:100:A:ALA:HB3	1:97:A:THR:HB	7	0.41
(1,6284)	1:100:A:ALA:HB1	1:97:A:THR:HB	9	0.41
(1,6264)	1:98:A:ASP:H	1:97:A:THR:HG22	9	0.41
(1,6172)	1:91:A:LEU:HD22	1:66:A:ILE:HB	1	0.41
(1,6161)	1:91:A:LEU:HD23	1:138:A:TRP:HB2	9	0.41
(1,6145)	1:91:A:LEU:HD13	1:65:A:SER:HA	9	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6116)	1:90:A:LEU:HD23	1:130:A:PHE:HZ	4	0.41
(1,6110)	1:90:A:LEU:HD21	1:90:A:LEU:H	4	0.41
(1,6076)	1:90:A:LEU:HA	1:90:A:LEU:HD13	6	0.41
(1,6072)	1:89:A:ILE:HG12	1:89:A:ILE:HG22	4	0.41
(1,6072)	1:89:A:ILE:HG12	1:89:A:ILE:HG22	6	0.41
(1,6072)	1:89:A:ILE:HG12	1:89:A:ILE:HG21	8	0.41
(1,6043)	1:89:A:ILE:HD11	1:131:A:LEU:HA	8	0.41
(1,6043)	1:89:A:ILE:HD13	1:131:A:LEU:HA	10	0.41
(1,5715)	1:75:A:ILE:HA	1:79:A:LEU:HD21	5	0.41
(1,5715)	1:75:A:ILE:HA	1:79:A:LEU:HD22	6	0.41
(1,5715)	1:75:A:ILE:HA	1:79:A:LEU:HD21	10	0.41
(1,5691)	1:73:A:ALA:HB3	1:76:A:LEU:HB3	1	0.41
(1,5691)	1:73:A:ALA:HB1	1:76:A:LEU:HB3	6	0.41
(1,5565)	1:66:A:ILE:HG23	1:113:A:ASP:HA	6	0.41
(1,5537)	1:66:A:ILE:HA	1:66:A:ILE:HD11	4	0.41
(1,5410)	1:61:A:ALA:HB2	1:29:A:TRP:HZ2	10	0.41
(1,5385)	1:58:A:ASP:H	1:57:A:THR:HG22	4	0.41
(1,5385)	1:58:A:ASP:H	1:57:A:THR:HG21	6	0.41
(1,5354)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	7	0.41
(1,5318)	1:52:A:VAL:HG23	1:52:A:VAL:H	4	0.41
(1,5318)	1:52:A:VAL:HG22	1:52:A:VAL:H	5	0.41
(1,5318)	1:52:A:VAL:HG21	1:52:A:VAL:H	9	0.41
(1,5306)	1:52:A:VAL:HG11	1:48:A:SER:H	2	0.41
(1,5306)	1:52:A:VAL:HG12	1:48:A:SER:H	4	0.41
(1,5306)	1:52:A:VAL:HG13	1:48:A:SER:H	9	0.41
(1,5306)	1:52:A:VAL:HG13	1:48:A:SER:H	10	0.41
(1,5296)	1:52:A:VAL:HA	1:52:A:VAL:HG13	10	0.41
(1,5280)	1:50:A:GLU:HG3	1:49:A:ILE:HG22	4	0.41
(1,5280)	1:50:A:GLU:HG3	1:49:A:ILE:HG21	8	0.41
(1,5254)	1:49:A:ILE:HG23	1:105:A:PHE:HD2	2	0.41
(1,5254)	1:49:A:ILE:HG21	1:105:A:PHE:HD2	4	0.41
(1,5254)	1:49:A:ILE:HG22	1:105:A:PHE:HD2	6	0.41
(1,5205)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	4	0.41
(1,5205)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	9	0.41
(1,5190)	1:46:A:VAL:HG22	1:47:A:GLU:H	5	0.41
(1,5190)	1:46:A:VAL:HG22	1:47:A:GLU:H	7	0.41
(1,5164)	1:45:A:LYS:HG3	1:46:A:VAL:HG21	9	0.41
(1,5142)	1:44:A:ILE:HG21	1:55:A:GLN:HG3	4	0.41
(1,5067)	1:40:A:LEU:HD13	1:152:A:LEU:HD12	2	0.41
(1,5067)	1:40:A:LEU:HD12	1:152:A:LEU:HD13	3	0.41
(1,5067)	1:40:A:LEU:HD11	1:152:A:LEU:HD11	6	0.41
(1,4990)	1:38:A:ILE:HD12	1:30:A:ILE:HG13	10	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4975)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	1	0.41
(1,4975)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	6	0.41
(1,4873)	1:31:A:GLN:H	1:30:A:ILE:HG21	3	0.41
(1,4873)	1:31:A:GLN:H	1:30:A:ILE:HG22	5	0.41
(1,4848)	1:30:A:ILE:HD11	1:29:A:TRP:HA	7	0.41
(1,4759)	1:137:A:GLU:H	1:131:A:LEU:HG	8	0.41
(1,4735)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	1	0.41
(1,4734)	1:71:A:GLU:H	1:73:A:ALA:HB1	8	0.41
(1,4699)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	8	0.41
(1,4653)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	8	0.41
(1,4653)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	9	0.41
(1,4643)	1:78:A:THR:HB	1:81:A:LYS:HB2	5	0.41
(1,4640)	1:76:A:LEU:HD12	1:131:A:LEU:HA	10	0.41
(1,4580)	1:137:A:GLU:H	1:131:A:LEU:HG	8	0.41
(1,4556)	1:72:A:ASN:HD21	1:69:A:GLU:HG2	1	0.41
(1,4555)	1:71:A:GLU:H	1:73:A:ALA:HB1	8	0.41
(1,4520)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	8	0.41
(1,4474)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	8	0.41
(1,4474)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	9	0.41
(1,4464)	1:78:A:THR:HB	1:81:A:LYS:HB2	5	0.41
(1,4461)	1:76:A:LEU:HD12	1:131:A:LEU:HA	10	0.41
(1,4392)	1:159:A:TYR:H	1:157:A:ILE:HG23	1	0.41
(1,4278)	1:146:A:SER:H	1:145:A:VAL:HG13	1	0.41
(1,4278)	1:146:A:SER:H	1:145:A:VAL:HG11	7	0.41
(1,4194)	1:139:A:LYS:H	1:116:A:THR:HG22	10	0.41
(1,4054)	1:129:A:ALA:H	1:91:A:LEU:HD22	7	0.41
(1,3622)	1:83:A:TRP:HE1	1:30:A:ILE:HD13	1	0.41
(1,3622)	1:83:A:TRP:HE1	1:30:A:ILE:HD12	2	0.41
(1,3622)	1:83:A:TRP:HE1	1:30:A:ILE:HD11	8	0.41
(1,3622)	1:83:A:TRP:HE1	1:30:A:ILE:HD13	10	0.41
(1,3366)	1:63:A:MET:H	1:63:A:MET:HE3	2	0.41
(1,3226)	1:54:A:ASN:H	1:52:A:VAL:HG22	7	0.41
(1,3226)	1:54:A:ASN:H	1:52:A:VAL:HG21	10	0.41
(1,2748)	1:105:A:PHE:HE1	1:49:A:ILE:HG22	3	0.41
(1,2636)	1:83:A:TRP:HH2	1:37:A:TYR:HD1	4	0.41
(1,2439)	1:157:A:ILE:HG22	1:23:A:ASP:HA	4	0.41
(1,2436)	1:157:A:ILE:HG23	1:35:A:SER:HB2	2	0.41
(1,2436)	1:157:A:ILE:HG22	1:35:A:SER:HB2	10	0.41
(1,2308)	1:152:A:LEU:HD11	1:153:A:CYS:HB2	6	0.41
(1,1982)	1:85:A:GLY:HA3	1:133:A:ILE:HD11	10	0.41
(1,1941)	1:131:A:LEU:HD22	1:88:A:ASP:HA	2	0.41
(1,1941)	1:131:A:LEU:HD21	1:88:A:ASP:HA	9	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1878)	1:129:A:ALA:HB3	1:91:A:LEU:HB3	4	0.41
(1,1813)	1:124:A:LEU:HD21	1:124:A:LEU:HD23	1	0.41
(1,1813)	1:124:A:LEU:HD22	1:124:A:LEU:HD21	2	0.41
(1,1813)	1:124:A:LEU:HD22	1:124:A:LEU:HD21	3	0.41
(1,1813)	1:124:A:LEU:HD22	1:124:A:LEU:HD21	7	0.41
(1,1652)	1:111:A:THR:HG22	1:111:A:THR:HG23	9	0.41
(1,1529)	1:101:A:SER:HB2	1:103:A:LYS:HG2	2	0.41
(1,1517)	1:100:A:ALA:HB3	1:97:A:THR:HB	7	0.41
(1,1517)	1:100:A:ALA:HB1	1:97:A:THR:HB	9	0.41
(1,1497)	1:98:A:ASP:H	1:97:A:THR:HG22	9	0.41
(1,1405)	1:91:A:LEU:HD22	1:66:A:ILE:HB	1	0.41
(1,1394)	1:91:A:LEU:HD23	1:138:A:TRP:HB2	9	0.41
(1,1378)	1:91:A:LEU:HD13	1:65:A:SER:HA	9	0.41
(1,1349)	1:90:A:LEU:HD23	1:130:A:PHE:HZ	4	0.41
(1,1343)	1:90:A:LEU:HD21	1:90:A:LEU:H	4	0.41
(1,1309)	1:90:A:LEU:HA	1:90:A:LEU:HD13	6	0.41
(1,1305)	1:89:A:ILE:HG12	1:89:A:ILE:HG22	4	0.41
(1,1305)	1:89:A:ILE:HG12	1:89:A:ILE:HG22	6	0.41
(1,1305)	1:89:A:ILE:HG12	1:89:A:ILE:HG21	8	0.41
(1,1276)	1:89:A:ILE:HD11	1:131:A:LEU:HA	8	0.41
(1,1276)	1:89:A:ILE:HD13	1:131:A:LEU:HA	10	0.41
(1,948)	1:75:A:ILE:HA	1:79:A:LEU:HD21	5	0.41
(1,948)	1:75:A:ILE:HA	1:79:A:LEU:HD22	6	0.41
(1,948)	1:75:A:ILE:HA	1:79:A:LEU:HD21	10	0.41
(1,924)	1:73:A:ALA:HB3	1:76:A:LEU:HB3	1	0.41
(1,924)	1:73:A:ALA:HB1	1:76:A:LEU:HB3	6	0.41
(1,798)	1:66:A:ILE:HG23	1:113:A:ASP:HA	6	0.41
(1,770)	1:66:A:ILE:HA	1:66:A:ILE:HD11	4	0.41
(1,643)	1:61:A:ALA:HB2	1:29:A:TRP:HZ2	10	0.41
(1,618)	1:58:A:ASP:H	1:57:A:THR:HG22	4	0.41
(1,618)	1:58:A:ASP:H	1:57:A:THR:HG21	6	0.41
(1,587)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	7	0.41
(1,551)	1:52:A:VAL:HG23	1:52:A:VAL:H	4	0.41
(1,551)	1:52:A:VAL:HG22	1:52:A:VAL:H	5	0.41
(1,551)	1:52:A:VAL:HG21	1:52:A:VAL:H	9	0.41
(1,539)	1:52:A:VAL:HG11	1:48:A:SER:H	2	0.41
(1,539)	1:52:A:VAL:HG12	1:48:A:SER:H	4	0.41
(1,539)	1:52:A:VAL:HG13	1:48:A:SER:H	9	0.41
(1,539)	1:52:A:VAL:HG13	1:48:A:SER:H	10	0.41
(1,529)	1:52:A:VAL:HA	1:52:A:VAL:HG13	10	0.41
(1,513)	1:50:A:GLU:HG3	1:49:A:ILE:HG22	4	0.41
(1,513)	1:50:A:GLU:HG3	1:49:A:ILE:HG21	8	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,487)	1:49:A:ILE:HG23	1:105:A:PHE:HD2	2	0.41
(1,487)	1:49:A:ILE:HG21	1:105:A:PHE:HD2	4	0.41
(1,487)	1:49:A:ILE:HG22	1:105:A:PHE:HD2	6	0.41
(1,438)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	4	0.41
(1,438)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	9	0.41
(1,423)	1:46:A:VAL:HG22	1:47:A:GLU:H	5	0.41
(1,423)	1:46:A:VAL:HG22	1:47:A:GLU:H	7	0.41
(1,397)	1:45:A:LYS:HG3	1:46:A:VAL:HG21	9	0.41
(1,375)	1:44:A:ILE:HG21	1:55:A:GLN:HG3	4	0.41
(1,300)	1:40:A:LEU:HD13	1:152:A:LEU:HD12	2	0.41
(1,300)	1:40:A:LEU:HD12	1:152:A:LEU:HD13	3	0.41
(1,300)	1:40:A:LEU:HD11	1:152:A:LEU:HD11	6	0.41
(1,223)	1:38:A:ILE:HD12	1:30:A:ILE:HG13	10	0.41
(1,208)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	1	0.41
(1,208)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	6	0.41
(1,106)	1:31:A:GLN:H	1:30:A:ILE:HG21	3	0.41
(1,106)	1:31:A:GLN:H	1:30:A:ILE:HG22	5	0.41
(1,81)	1:30:A:ILE:HD11	1:29:A:TRP:HA	7	0.41
(1,8961)	1:139:A:LYS:H	1:116:A:THR:HG23	5	0.4
(1,8961)	1:139:A:LYS:H	1:116:A:THR:HG23	8	0.4
(1,8798)	1:126:A:ASP:H	1:124:A:LEU:HD21	3	0.4
(1,8376)	1:82:A:GLN:HE21	1:78:A:THR:HG22	4	0.4
(1,8336)	1:78:A:THR:H	1:79:A:LEU:HD23	3	0.4
(1,8291)	1:75:A:ILE:H	1:32:A:PHE:HD2	7	0.4
(1,8291)	1:75:A:ILE:H	1:32:A:PHE:HD2	10	0.4
(1,8133)	1:63:A:MET:H	1:63:A:MET:HE2	5	0.4
(1,8034)	1:55:A:GLN:HE22	1:40:A:LEU:HD23	5	0.4
(1,7993)	1:54:A:ASN:H	1:52:A:VAL:HG22	3	0.4
(1,7710)	1:30:A:ILE:H	1:152:A:LEU:HD13	1	0.4
(1,7540)	1:129:A:ALA:HB2	1:115:A:TRP:HH2	1	0.4
(1,7540)	1:129:A:ALA:HB3	1:115:A:TRP:HH2	2	0.4
(1,7540)	1:129:A:ALA:HB1	1:115:A:TRP:HH2	4	0.4
(1,7517)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	9	0.4
(1,7211)	1:157:A:ILE:HG23	1:157:A:ILE:HG13	8	0.4
(1,7206)	1:157:A:ILE:HG21	1:23:A:ASP:HA	5	0.4
(1,7186)	1:35:A:SER:H	1:157:A:ILE:HD13	5	0.4
(1,7083)	1:152:A:LEU:HD23	1:78:A:THR:HB	9	0.4
(1,7081)	1:78:A:THR:HG21	1:152:A:LEU:HD21	8	0.4
(1,7075)	1:152:A:LEU:HD12	1:153:A:CYS:HB2	1	0.4
(1,7075)	1:152:A:LEU:HD13	1:153:A:CYS:HB2	7	0.4
(1,6774)	1:133:A:ILE:HG22	1:77:A:ASP:HA	9	0.4
(1,6678)	1:76:A:LEU:H	1:131:A:LEU:HD11	2	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6645)	1:129:A:ALA:HB2	1:91:A:LEU:HB3	9	0.4
(1,6580)	1:124:A:LEU:HD22	1:124:A:LEU:HD23	4	0.4
(1,6580)	1:124:A:LEU:HD22	1:124:A:LEU:HD21	5	0.4
(1,6580)	1:124:A:LEU:HD22	1:124:A:LEU:HD21	6	0.4
(1,6580)	1:124:A:LEU:HD22	1:124:A:LEU:HD23	8	0.4
(1,6580)	1:124:A:LEU:HD22	1:124:A:LEU:HD21	9	0.4
(1,6580)	1:124:A:LEU:HD22	1:124:A:LEU:HD21	10	0.4
(1,6567)	1:124:A:LEU:HD11	1:95:A:TYR:HD1	2	0.4
(1,6389)	1:109:A:ASN:HB2	1:111:A:THR:HG21	8	0.4
(1,6291)	1:100:A:ALA:HB1	1:100:A:ALA:HB3	2	0.4
(1,6291)	1:100:A:ALA:HB1	1:100:A:ALA:HB3	3	0.4
(1,6291)	1:100:A:ALA:HB2	1:100:A:ALA:HB1	8	0.4
(1,6288)	1:100:A:ALA:HB3	1:99:A:ASP:HA	1	0.4
(1,6288)	1:100:A:ALA:HB1	1:99:A:ASP:HA	3	0.4
(1,6284)	1:100:A:ALA:HB1	1:97:A:THR:HB	8	0.4
(1,6148)	1:91:A:LEU:HD13	1:90:A:LEU:H	1	0.4
(1,6147)	1:91:A:LEU:HD13	1:66:A:ILE:HB	6	0.4
(1,6116)	1:90:A:LEU:HD21	1:130:A:PHE:HZ	1	0.4
(1,6116)	1:90:A:LEU:HD22	1:130:A:PHE:HZ	6	0.4
(1,6110)	1:90:A:LEU:HD22	1:90:A:LEU:H	1	0.4
(1,6110)	1:90:A:LEU:HD21	1:90:A:LEU:H	7	0.4
(1,6110)	1:90:A:LEU:HD21	1:90:A:LEU:H	9	0.4
(1,6109)	1:90:A:LEU:HD21	1:63:A:MET:HB3	6	0.4
(1,6096)	1:90:A:LEU:HD12	1:90:A:LEU:H	9	0.4
(1,6072)	1:89:A:ILE:HG12	1:89:A:ILE:HG22	2	0.4
(1,6072)	1:89:A:ILE:HG12	1:89:A:ILE:HG23	3	0.4
(1,6072)	1:89:A:ILE:HG12	1:89:A:ILE:HG22	9	0.4
(1,6072)	1:89:A:ILE:HG12	1:89:A:ILE:HG22	10	0.4
(1,5847)	1:79:A:LEU:HD11	1:86:A:PRO:HB3	5	0.4
(1,5826)	1:78:A:THR:HG22	1:82:A:GLN:HA	4	0.4
(1,5691)	1:73:A:ALA:HB3	1:76:A:LEU:HB3	3	0.4
(1,5691)	1:73:A:ALA:HB2	1:76:A:LEU:HB3	9	0.4
(1,5677)	1:72:A:ASN:HB2	1:73:A:ALA:HB2	1	0.4
(1,5603)	1:69:A:GLU:HA	1:73:A:ALA:HB1	9	0.4
(1,5537)	1:66:A:ILE:HA	1:66:A:ILE:HD11	7	0.4
(1,5505)	1:64:A:ILE:HG22	1:65:A:SER:H	2	0.4
(1,5505)	1:64:A:ILE:HG23	1:65:A:SER:H	3	0.4
(1,5473)	1:64:A:ILE:HD12	1:130:A:PHE:HA	9	0.4
(1,5473)	1:64:A:ILE:HD12	1:130:A:PHE:HA	10	0.4
(1,5441)	1:63:A:MET:HE2	1:63:A:MET:HE3	1	0.4
(1,5441)	1:63:A:MET:HE1	1:63:A:MET:HE3	4	0.4
(1,5441)	1:63:A:MET:HE2	1:63:A:MET:HE3	5	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5441)	1:63:A:MET:HE2	1:63:A:MET:HE3	9	0.4
(1,5412)	1:61:A:ALA:HB3	1:40:A:LEU:HD21	4	0.4
(1,5410)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	1	0.4
(1,5410)	1:61:A:ALA:HB3	1:29:A:TRP:HZ2	8	0.4
(1,5385)	1:58:A:ASP:H	1:57:A:THR:HG21	10	0.4
(1,5381)	1:56:A:CYS:HB3	1:57:A:THR:HG21	6	0.4
(1,5318)	1:52:A:VAL:HG22	1:52:A:VAL:H	3	0.4
(1,5318)	1:52:A:VAL:HG22	1:52:A:VAL:H	7	0.4
(1,5306)	1:52:A:VAL:HG12	1:48:A:SER:H	7	0.4
(1,5257)	1:49:A:ILE:HG22	1:144:A:GLU:HG2	8	0.4
(1,5242)	1:49:A:ILE:HD12	1:128:A:CYS:HB2	1	0.4
(1,5242)	1:49:A:ILE:HD12	1:128:A:CYS:HB2	9	0.4
(1,5225)	1:49:A:ILE:HA	1:49:A:ILE:HG22	1	0.4
(1,5205)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	6	0.4
(1,5205)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	10	0.4
(1,5203)	1:46:A:VAL:HG12	1:47:A:GLU:HG2	5	0.4
(1,5190)	1:46:A:VAL:HG22	1:47:A:GLU:H	3	0.4
(1,5073)	1:40:A:LEU:HB3	1:40:A:LEU:HD22	1	0.4
(1,4759)	1:137:A:GLU:H	1:131:A:LEU:HG	6	0.4
(1,4732)	1:66:A:ILE:H	1:154:A:LYS:HE3	5	0.4
(1,4722)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	10	0.4
(1,4721)	1:40:A:LEU:H	1:40:A:LEU:HB2	7	0.4
(1,4718)	1:37:A:TYR:H	1:152:A:LEU:HD13	1	0.4
(1,4718)	1:37:A:TYR:H	1:152:A:LEU:HD11	4	0.4
(1,4699)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	1	0.4
(1,4663)	1:125:A:VAL:HG11	1:142:A:ASN:HA	3	0.4
(1,4653)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	10	0.4
(1,4640)	1:76:A:LEU:HD11	1:131:A:LEU:HA	4	0.4
(1,4623)	1:64:A:ILE:HG21	1:65:A:SER:HB2	7	0.4
(1,4580)	1:137:A:GLU:H	1:131:A:LEU:HG	6	0.4
(1,4553)	1:66:A:ILE:H	1:154:A:LYS:HE3	5	0.4
(1,4543)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	10	0.4
(1,4542)	1:40:A:LEU:H	1:40:A:LEU:HB2	7	0.4
(1,4539)	1:37:A:TYR:H	1:152:A:LEU:HD13	1	0.4
(1,4539)	1:37:A:TYR:H	1:152:A:LEU:HD11	4	0.4
(1,4520)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	1	0.4
(1,4484)	1:125:A:VAL:HG11	1:142:A:ASN:HA	3	0.4
(1,4474)	1:86:A:PRO:HG3	1:84:A:LYS:HD3	10	0.4
(1,4461)	1:76:A:LEU:HD11	1:131:A:LEU:HA	4	0.4
(1,4444)	1:64:A:ILE:HG21	1:65:A:SER:HB2	7	0.4
(1,4194)	1:139:A:LYS:H	1:116:A:THR:HG23	5	0.4
(1,4194)	1:139:A:LYS:H	1:116:A:THR:HG23	8	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4031)	1:126:A:ASP:H	1:124:A:LEU:HD21	3	0.4
(1,3609)	1:82:A:GLN:HE21	1:78:A:THR:HG22	4	0.4
(1,3569)	1:78:A:THR:H	1:79:A:LEU:HD23	3	0.4
(1,3524)	1:75:A:ILE:H	1:32:A:PHE:HD2	7	0.4
(1,3524)	1:75:A:ILE:H	1:32:A:PHE:HD2	10	0.4
(1,3366)	1:63:A:MET:H	1:63:A:MET:HE2	5	0.4
(1,3267)	1:55:A:GLN:HE22	1:40:A:LEU:HD23	5	0.4
(1,3226)	1:54:A:ASN:H	1:52:A:VAL:HG22	3	0.4
(1,2943)	1:30:A:ILE:H	1:152:A:LEU:HD13	1	0.4
(1,2773)	1:129:A:ALA:HB2	1:115:A:TRP:HH2	1	0.4
(1,2773)	1:129:A:ALA:HB3	1:115:A:TRP:HH2	2	0.4
(1,2773)	1:129:A:ALA:HB1	1:115:A:TRP:HH2	4	0.4
(1,2750)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	9	0.4
(1,2444)	1:157:A:ILE:HG23	1:157:A:ILE:HG13	8	0.4
(1,2439)	1:157:A:ILE:HG21	1:23:A:ASP:HA	5	0.4
(1,2419)	1:35:A:SER:H	1:157:A:ILE:HD13	5	0.4
(1,2316)	1:152:A:LEU:HD23	1:78:A:THR:HB	9	0.4
(1,2314)	1:78:A:THR:HG21	1:152:A:LEU:HD21	8	0.4
(1,2308)	1:152:A:LEU:HD12	1:153:A:CYS:HB2	1	0.4
(1,2308)	1:152:A:LEU:HD13	1:153:A:CYS:HB2	7	0.4
(1,2007)	1:133:A:ILE:HG22	1:77:A:ASP:HA	9	0.4
(1,1911)	1:76:A:LEU:H	1:131:A:LEU:HD11	2	0.4
(1,1878)	1:129:A:ALA:HB2	1:91:A:LEU:HB3	9	0.4
(1,1813)	1:124:A:LEU:HD22	1:124:A:LEU:HD23	4	0.4
(1,1813)	1:124:A:LEU:HD22	1:124:A:LEU:HD21	5	0.4
(1,1813)	1:124:A:LEU:HD22	1:124:A:LEU:HD21	6	0.4
(1,1813)	1:124:A:LEU:HD22	1:124:A:LEU:HD23	8	0.4
(1,1813)	1:124:A:LEU:HD22	1:124:A:LEU:HD21	9	0.4
(1,1813)	1:124:A:LEU:HD22	1:124:A:LEU:HD21	10	0.4
(1,1800)	1:124:A:LEU:HD11	1:95:A:TYR:HD1	2	0.4
(1,1622)	1:109:A:ASN:HB2	1:111:A:THR:HG21	8	0.4
(1,1524)	1:100:A:ALA:HB1	1:100:A:ALA:HB3	2	0.4
(1,1524)	1:100:A:ALA:HB1	1:100:A:ALA:HB3	3	0.4
(1,1524)	1:100:A:ALA:HB2	1:100:A:ALA:HB1	8	0.4
(1,1521)	1:100:A:ALA:HB3	1:99:A:ASP:HA	1	0.4
(1,1521)	1:100:A:ALA:HB1	1:99:A:ASP:HA	3	0.4
(1,1517)	1:100:A:ALA:HB1	1:97:A:THR:HB	8	0.4
(1,1381)	1:91:A:LEU:HD13	1:90:A:LEU:H	1	0.4
(1,1380)	1:91:A:LEU:HD13	1:66:A:ILE:HB	6	0.4
(1,1349)	1:90:A:LEU:HD21	1:130:A:PHE:HZ	1	0.4
(1,1349)	1:90:A:LEU:HD22	1:130:A:PHE:HZ	6	0.4
(1,1343)	1:90:A:LEU:HD22	1:90:A:LEU:H	1	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1343)	1:90:A:LEU:HD21	1:90:A:LEU:H	7	0.4
(1,1343)	1:90:A:LEU:HD21	1:90:A:LEU:H	9	0.4
(1,1342)	1:90:A:LEU:HD21	1:63:A:MET:HB3	6	0.4
(1,1329)	1:90:A:LEU:HD12	1:90:A:LEU:H	9	0.4
(1,1305)	1:89:A:ILE:HG12	1:89:A:ILE:HG22	2	0.4
(1,1305)	1:89:A:ILE:HG12	1:89:A:ILE:HG23	3	0.4
(1,1305)	1:89:A:ILE:HG12	1:89:A:ILE:HG22	9	0.4
(1,1305)	1:89:A:ILE:HG12	1:89:A:ILE:HG22	10	0.4
(1,1080)	1:79:A:LEU:HD11	1:86:A:PRO:HB3	5	0.4
(1,1059)	1:78:A:THR:HG22	1:82:A:GLN:HA	4	0.4
(1,924)	1:73:A:ALA:HB3	1:76:A:LEU:HB3	3	0.4
(1,924)	1:73:A:ALA:HB2	1:76:A:LEU:HB3	9	0.4
(1,910)	1:72:A:ASN:HB2	1:73:A:ALA:HB2	1	0.4
(1,836)	1:69:A:GLU:HA	1:73:A:ALA:HB1	9	0.4
(1,770)	1:66:A:ILE:HA	1:66:A:ILE:HD11	7	0.4
(1,738)	1:64:A:ILE:HG22	1:65:A:SER:H	2	0.4
(1,738)	1:64:A:ILE:HG23	1:65:A:SER:H	3	0.4
(1,706)	1:64:A:ILE:HD12	1:130:A:PHE:HA	9	0.4
(1,706)	1:64:A:ILE:HD12	1:130:A:PHE:HA	10	0.4
(1,674)	1:63:A:MET:HE2	1:63:A:MET:HE3	1	0.4
(1,674)	1:63:A:MET:HE1	1:63:A:MET:HE3	4	0.4
(1,674)	1:63:A:MET:HE2	1:63:A:MET:HE3	5	0.4
(1,674)	1:63:A:MET:HE2	1:63:A:MET:HE3	9	0.4
(1,645)	1:61:A:ALA:HB3	1:40:A:LEU:HD21	4	0.4
(1,643)	1:61:A:ALA:HB1	1:29:A:TRP:HZ2	1	0.4
(1,643)	1:61:A:ALA:HB3	1:29:A:TRP:HZ2	8	0.4
(1,618)	1:58:A:ASP:H	1:57:A:THR:HG21	10	0.4
(1,614)	1:56:A:CYS:HB3	1:57:A:THR:HG21	6	0.4
(1,551)	1:52:A:VAL:HG22	1:52:A:VAL:H	3	0.4
(1,551)	1:52:A:VAL:HG22	1:52:A:VAL:H	7	0.4
(1,539)	1:52:A:VAL:HG12	1:48:A:SER:H	7	0.4
(1,490)	1:49:A:ILE:HG22	1:144:A:GLU:HG2	8	0.4
(1,475)	1:49:A:ILE:HD12	1:128:A:CYS:HB2	1	0.4
(1,475)	1:49:A:ILE:HD12	1:128:A:CYS:HB2	9	0.4
(1,458)	1:49:A:ILE:HA	1:49:A:ILE:HG22	1	0.4
(1,438)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	6	0.4
(1,438)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	10	0.4
(1,436)	1:46:A:VAL:HG12	1:47:A:GLU:HG2	5	0.4
(1,423)	1:46:A:VAL:HG22	1:47:A:GLU:H	3	0.4
(1,306)	1:40:A:LEU:HB3	1:40:A:LEU:HD22	1	0.4
(1,9053)	1:149:A:GLU:H	1:43:A:ALA:HB2	2	0.39
(1,9053)	1:149:A:GLU:H	1:43:A:ALA:HB3	10	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8843)	1:131:A:LEU:H	1:91:A:LEU:HB3	8	0.39
(1,8743)	1:118:A:GLN:H	1:118:A:GLN:HG2	6	0.39
(1,8666)	1:110:A:MET:H	1:103:A:LYS:HG2	2	0.39
(1,8336)	1:78:A:THR:H	1:79:A:LEU:HD21	5	0.39
(1,8024)	1:55:A:GLN:HE21	1:44:A:ILE:HG21	4	0.39
(1,7928)	1:49:A:ILE:H	1:46:A:VAL:HG12	5	0.39
(1,7710)	1:30:A:ILE:H	1:152:A:LEU:HD11	7	0.39
(1,7515)	1:105:A:PHE:HE1	1:49:A:ILE:HG22	1	0.39
(1,7515)	1:105:A:PHE:HE1	1:49:A:ILE:HG21	5	0.39
(1,7515)	1:105:A:PHE:HE1	1:49:A:ILE:HG23	7	0.39
(1,7478)	1:104:A:TRP:HE3	1:91:A:LEU:HD13	3	0.39
(1,7426)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	1	0.39
(1,7426)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	2	0.39
(1,7426)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	4	0.39
(1,7426)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	9	0.39
(1,7404)	1:83:A:TRP:HH2	1:79:A:LEU:HD13	4	0.39
(1,7404)	1:83:A:TRP:HH2	1:79:A:LEU:HD11	8	0.39
(1,7384)	1:74:A:PHE:HE1	1:75:A:ILE:HA	4	0.39
(1,7381)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	2	0.39
(1,7211)	1:157:A:ILE:HG22	1:157:A:ILE:HG13	1	0.39
(1,7081)	1:78:A:THR:HG21	1:152:A:LEU:HD23	4	0.39
(1,6678)	1:76:A:LEU:H	1:131:A:LEU:HD11	5	0.39
(1,6678)	1:76:A:LEU:H	1:131:A:LEU:HD12	7	0.39
(1,6678)	1:76:A:LEU:H	1:131:A:LEU:HD12	10	0.39
(1,6645)	1:129:A:ALA:HB2	1:91:A:LEU:HB3	7	0.39
(1,6389)	1:109:A:ASN:HB2	1:111:A:THR:HG21	3	0.39
(1,6291)	1:100:A:ALA:HB2	1:100:A:ALA:HB1	1	0.39
(1,6291)	1:100:A:ALA:HB2	1:100:A:ALA:HB1	4	0.39
(1,6291)	1:100:A:ALA:HB2	1:100:A:ALA:HB3	5	0.39
(1,6291)	1:100:A:ALA:HB2	1:100:A:ALA:HB3	6	0.39
(1,6291)	1:100:A:ALA:HB1	1:100:A:ALA:HB3	7	0.39
(1,6291)	1:100:A:ALA:HB2	1:100:A:ALA:HB1	9	0.39
(1,6291)	1:100:A:ALA:HB2	1:100:A:ALA:HB1	10	0.39
(1,6208)	1:93:A:MET:HB2	1:91:A:LEU:HD13	9	0.39
(1,6145)	1:91:A:LEU:HD13	1:65:A:SER:HA	3	0.39
(1,6110)	1:90:A:LEU:HD23	1:90:A:LEU:H	5	0.39
(1,6110)	1:90:A:LEU:HD22	1:90:A:LEU:H	10	0.39
(1,6096)	1:90:A:LEU:HD11	1:90:A:LEU:H	2	0.39
(1,6072)	1:89:A:ILE:HG12	1:89:A:ILE:HG23	5	0.39
(1,6043)	1:89:A:ILE:HD13	1:131:A:LEU:HA	1	0.39
(1,6043)	1:89:A:ILE:HD13	1:131:A:LEU:HA	2	0.39
(1,5743)	1:75:A:ILE:HG22	1:78:A:THR:HB	5	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5603)	1:69:A:GLU:HA	1:73:A:ALA:HB3	2	0.39
(1,5582)	1:66:A:ILE:HG22	1:138:A:TRP:HZ3	6	0.39
(1,5537)	1:66:A:ILE:HA	1:66:A:ILE:HD13	8	0.39
(1,5537)	1:66:A:ILE:HA	1:66:A:ILE:HD12	9	0.39
(1,5487)	1:64:A:ILE:HD12	1:91:A:LEU:HD23	10	0.39
(1,5441)	1:63:A:MET:HE2	1:63:A:MET:HE3	8	0.39
(1,5412)	1:61:A:ALA:HB2	1:40:A:LEU:HD23	8	0.39
(1,5412)	1:61:A:ALA:HB2	1:40:A:LEU:HD23	9	0.39
(1,5385)	1:58:A:ASP:H	1:57:A:THR:HG23	1	0.39
(1,5385)	1:58:A:ASP:H	1:57:A:THR:HG21	3	0.39
(1,5385)	1:58:A:ASP:H	1:57:A:THR:HG21	9	0.39
(1,5381)	1:56:A:CYS:HB3	1:57:A:THR:HG23	1	0.39
(1,5381)	1:56:A:CYS:HB3	1:57:A:THR:HG21	8	0.39
(1,5296)	1:52:A:VAL:HA	1:52:A:VAL:HG13	6	0.39
(1,5296)	1:52:A:VAL:HA	1:52:A:VAL:HG11	8	0.39
(1,5296)	1:52:A:VAL:HA	1:52:A:VAL:HG13	9	0.39
(1,5280)	1:50:A:GLU:HG3	1:49:A:ILE:HG21	5	0.39
(1,5242)	1:49:A:ILE:HD13	1:128:A:CYS:HB2	3	0.39
(1,5242)	1:49:A:ILE:HD13	1:128:A:CYS:HB2	5	0.39
(1,5225)	1:49:A:ILE:HA	1:49:A:ILE:HG23	7	0.39
(1,5225)	1:49:A:ILE:HA	1:49:A:ILE:HG21	8	0.39
(1,5205)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	1	0.39
(1,5205)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	2	0.39
(1,5205)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	5	0.39
(1,5205)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	8	0.39
(1,5142)	1:44:A:ILE:HG21	1:55:A:GLN:HG3	2	0.39
(1,5142)	1:44:A:ILE:HG23	1:55:A:GLN:HG3	5	0.39
(1,5028)	1:38:A:ILE:HG21	1:40:A:LEU:HG	1	0.39
(1,5028)	1:38:A:ILE:HG22	1:40:A:LEU:HG	10	0.39
(1,4990)	1:38:A:ILE:HD12	1:30:A:ILE:HG13	8	0.39
(1,4923)	1:35:A:SER:HA	1:156:A:ALA:HB3	9	0.39
(1,4883)	1:30:A:ILE:HG23	1:82:A:GLN:H	7	0.39
(1,4828)	1:28:A:THR:HG21	1:29:A:TRP:HE1	7	0.39
(1,4721)	1:40:A:LEU:H	1:40:A:LEU:HB2	1	0.39
(1,4721)	1:40:A:LEU:H	1:40:A:LEU:HB2	2	0.39
(1,4721)	1:40:A:LEU:H	1:40:A:LEU:HB2	3	0.39
(1,4721)	1:40:A:LEU:H	1:40:A:LEU:HB2	5	0.39
(1,4721)	1:40:A:LEU:H	1:40:A:LEU:HB2	6	0.39
(1,4691)	1:61:A:ALA:HB3	1:29:A:TRP:HZ2	7	0.39
(1,4670)	1:134:A:LYS:HA	1:133:A:ILE:HB	10	0.39
(1,4666)	1:131:A:LEU:HD12	1:137:A:GLU:HB2	1	0.39
(1,4656)	1:91:A:LEU:HD23	1:115:A:TRP:HZ3	3	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4625)	1:66:A:ILE:HD11	1:136:A:GLY:HA2	7	0.39
(1,4542)	1:40:A:LEU:H	1:40:A:LEU:HB2	1	0.39
(1,4542)	1:40:A:LEU:H	1:40:A:LEU:HB2	2	0.39
(1,4542)	1:40:A:LEU:H	1:40:A:LEU:HB2	3	0.39
(1,4542)	1:40:A:LEU:H	1:40:A:LEU:HB2	5	0.39
(1,4542)	1:40:A:LEU:H	1:40:A:LEU:HB2	6	0.39
(1,4512)	1:61:A:ALA:HB3	1:29:A:TRP:HZ2	7	0.39
(1,4491)	1:134:A:LYS:HA	1:133:A:ILE:HB	10	0.39
(1,4487)	1:131:A:LEU:HD12	1:137:A:GLU:HB2	1	0.39
(1,4477)	1:91:A:LEU:HD23	1:115:A:TRP:HZ3	3	0.39
(1,4446)	1:66:A:ILE:HD11	1:136:A:GLY:HA2	7	0.39
(1,4286)	1:149:A:GLU:H	1:43:A:ALA:HB2	2	0.39
(1,4286)	1:149:A:GLU:H	1:43:A:ALA:HB3	10	0.39
(1,4076)	1:131:A:LEU:H	1:91:A:LEU:HB3	8	0.39
(1,3976)	1:118:A:GLN:H	1:118:A:GLN:HG2	6	0.39
(1,3899)	1:110:A:MET:H	1:103:A:LYS:HG2	2	0.39
(1,3569)	1:78:A:THR:H	1:79:A:LEU:HD21	5	0.39
(1,3257)	1:55:A:GLN:HE21	1:44:A:ILE:HG21	4	0.39
(1,3161)	1:49:A:ILE:H	1:46:A:VAL:HG12	5	0.39
(1,2943)	1:30:A:ILE:H	1:152:A:LEU:HD11	7	0.39
(1,2748)	1:105:A:PHE:HE1	1:49:A:ILE:HG22	1	0.39
(1,2748)	1:105:A:PHE:HE1	1:49:A:ILE:HG21	5	0.39
(1,2748)	1:105:A:PHE:HE1	1:49:A:ILE:HG23	7	0.39
(1,2711)	1:104:A:TRP:HE3	1:91:A:LEU:HD13	3	0.39
(1,2659)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	1	0.39
(1,2659)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	2	0.39
(1,2659)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	4	0.39
(1,2659)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	9	0.39
(1,2637)	1:83:A:TRP:HH2	1:79:A:LEU:HD13	4	0.39
(1,2637)	1:83:A:TRP:HH2	1:79:A:LEU:HD11	8	0.39
(1,2617)	1:74:A:PHE:HE1	1:75:A:ILE:HA	4	0.39
(1,2614)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	2	0.39
(1,2444)	1:157:A:ILE:HG22	1:157:A:ILE:HG13	1	0.39
(1,2314)	1:78:A:THR:HG21	1:152:A:LEU:HD23	4	0.39
(1,1911)	1:76:A:LEU:H	1:131:A:LEU:HD11	5	0.39
(1,1911)	1:76:A:LEU:H	1:131:A:LEU:HD12	7	0.39
(1,1911)	1:76:A:LEU:H	1:131:A:LEU:HD12	10	0.39
(1,1878)	1:129:A:ALA:HB2	1:91:A:LEU:HB3	7	0.39
(1,1622)	1:109:A:ASN:HB2	1:111:A:THR:HG21	3	0.39
(1,1524)	1:100:A:ALA:HB2	1:100:A:ALA:HB1	1	0.39
(1,1524)	1:100:A:ALA:HB2	1:100:A:ALA:HB1	4	0.39
(1,1524)	1:100:A:ALA:HB2	1:100:A:ALA:HB3	5	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1524)	1:100:A:ALA:HB2	1:100:A:ALA:HB3	6	0.39
(1,1524)	1:100:A:ALA:HB1	1:100:A:ALA:HB3	7	0.39
(1,1524)	1:100:A:ALA:HB2	1:100:A:ALA:HB1	9	0.39
(1,1524)	1:100:A:ALA:HB2	1:100:A:ALA:HB1	10	0.39
(1,1441)	1:93:A:MET:HB2	1:91:A:LEU:HD13	9	0.39
(1,1378)	1:91:A:LEU:HD13	1:65:A:SER:HA	3	0.39
(1,1343)	1:90:A:LEU:HD23	1:90:A:LEU:H	5	0.39
(1,1343)	1:90:A:LEU:HD22	1:90:A:LEU:H	10	0.39
(1,1329)	1:90:A:LEU:HD11	1:90:A:LEU:H	2	0.39
(1,1305)	1:89:A:ILE:HG12	1:89:A:ILE:HG23	5	0.39
(1,1276)	1:89:A:ILE:HD13	1:131:A:LEU:HA	1	0.39
(1,1276)	1:89:A:ILE:HD13	1:131:A:LEU:HA	2	0.39
(1,976)	1:75:A:ILE:HG22	1:78:A:THR:HB	5	0.39
(1,836)	1:69:A:GLU:HA	1:73:A:ALA:HB3	2	0.39
(1,815)	1:66:A:ILE:HG22	1:138:A:TRP:HZ3	6	0.39
(1,770)	1:66:A:ILE:HA	1:66:A:ILE:HD13	8	0.39
(1,770)	1:66:A:ILE:HA	1:66:A:ILE:HD12	9	0.39
(1,720)	1:64:A:ILE:HD12	1:91:A:LEU:HD23	10	0.39
(1,674)	1:63:A:MET:HE2	1:63:A:MET:HE3	8	0.39
(1,645)	1:61:A:ALA:HB2	1:40:A:LEU:HD23	8	0.39
(1,645)	1:61:A:ALA:HB2	1:40:A:LEU:HD23	9	0.39
(1,618)	1:58:A:ASP:H	1:57:A:THR:HG23	1	0.39
(1,618)	1:58:A:ASP:H	1:57:A:THR:HG21	3	0.39
(1,618)	1:58:A:ASP:H	1:57:A:THR:HG21	9	0.39
(1,614)	1:56:A:CYS:HB3	1:57:A:THR:HG23	1	0.39
(1,614)	1:56:A:CYS:HB3	1:57:A:THR:HG21	8	0.39
(1,529)	1:52:A:VAL:HA	1:52:A:VAL:HG13	6	0.39
(1,529)	1:52:A:VAL:HA	1:52:A:VAL:HG11	8	0.39
(1,529)	1:52:A:VAL:HA	1:52:A:VAL:HG13	9	0.39
(1,513)	1:50:A:GLU:HG3	1:49:A:ILE:HG21	5	0.39
(1,475)	1:49:A:ILE:HD13	1:128:A:CYS:HB2	3	0.39
(1,475)	1:49:A:ILE:HD13	1:128:A:CYS:HB2	5	0.39
(1,458)	1:49:A:ILE:HA	1:49:A:ILE:HG23	7	0.39
(1,458)	1:49:A:ILE:HA	1:49:A:ILE:HG21	8	0.39
(1,438)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	1	0.39
(1,438)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	2	0.39
(1,438)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	5	0.39
(1,438)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	8	0.39
(1,375)	1:44:A:ILE:HG21	1:55:A:GLN:HG3	2	0.39
(1,375)	1:44:A:ILE:HG23	1:55:A:GLN:HG3	5	0.39
(1,261)	1:38:A:ILE:HG21	1:40:A:LEU:HG	1	0.39
(1,261)	1:38:A:ILE:HG22	1:40:A:LEU:HG	10	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,223)	1:38:A:ILE:HD12	1:30:A:ILE:HG13	8	0.39
(1,156)	1:35:A:SER:HA	1:156:A:ALA:HB3	9	0.39
(1,116)	1:30:A:ILE:HG23	1:82:A:GLN:H	7	0.39
(1,61)	1:28:A:THR:HG21	1:29:A:TRP:HE1	7	0.39
(1,9159)	1:159:A:TYR:H	1:157:A:ILE:HG22	7	0.38
(1,9045)	1:146:A:SER:H	1:145:A:VAL:HG12	8	0.38
(1,8961)	1:139:A:LYS:H	1:116:A:THR:HG23	6	0.38
(1,8843)	1:131:A:LEU:H	1:91:A:LEU:HB3	1	0.38
(1,8819)	1:129:A:ALA:H	1:90:A:LEU:HD11	6	0.38
(1,8819)	1:129:A:ALA:H	1:90:A:LEU:HD12	10	0.38
(1,8743)	1:118:A:GLN:H	1:118:A:GLN:HG2	4	0.38
(1,8024)	1:55:A:GLN:HE21	1:44:A:ILE:HG21	5	0.38
(1,7993)	1:54:A:ASN:H	1:52:A:VAL:HG21	2	0.38
(1,7478)	1:104:A:TRP:HE3	1:91:A:LEU:HD13	9	0.38
(1,7426)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	7	0.38
(1,7404)	1:83:A:TRP:HH2	1:79:A:LEU:HD12	5	0.38
(1,7403)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	9	0.38
(1,7394)	1:74:A:PHE:HZ	1:30:A:ILE:HD11	7	0.38
(1,7394)	1:74:A:PHE:HZ	1:30:A:ILE:HD12	9	0.38
(1,7384)	1:74:A:PHE:HE1	1:75:A:ILE:HA	6	0.38
(1,7211)	1:157:A:ILE:HG22	1:157:A:ILE:HG13	10	0.38
(1,7157)	1:61:A:ALA:HB1	1:155:A:THR:HG22	4	0.38
(1,7083)	1:152:A:LEU:HD21	1:78:A:THR:HB	6	0.38
(1,6720)	1:131:A:LEU:HD23	1:138:A:TRP:HA	7	0.38
(1,6708)	1:131:A:LEU:HD23	1:88:A:ASP:HA	8	0.38
(1,6678)	1:76:A:LEU:H	1:131:A:LEU:HD13	4	0.38
(1,6678)	1:76:A:LEU:H	1:131:A:LEU:HD12	6	0.38
(1,6678)	1:76:A:LEU:H	1:131:A:LEU:HD11	8	0.38
(1,6389)	1:109:A:ASN:HB2	1:111:A:THR:HG23	6	0.38
(1,6297)	1:101:A:SER:HB2	1:100:A:ALA:HB1	10	0.38
(1,6296)	1:101:A:SER:HB2	1:103:A:LYS:HG2	7	0.38
(1,6288)	1:100:A:ALA:HB1	1:99:A:ASP:HA	6	0.38
(1,6284)	1:100:A:ALA:HB2	1:97:A:THR:HB	6	0.38
(1,6172)	1:91:A:LEU:HD23	1:66:A:ILE:HB	4	0.38
(1,6162)	1:91:A:LEU:HD13	1:138:A:TRP:HB3	8	0.38
(1,6147)	1:91:A:LEU:HD13	1:66:A:ILE:HB	8	0.38
(1,6147)	1:91:A:LEU:HD12	1:66:A:ILE:HB	10	0.38
(1,6110)	1:90:A:LEU:HD21	1:90:A:LEU:H	2	0.38
(1,6096)	1:90:A:LEU:HD13	1:90:A:LEU:H	1	0.38
(1,6096)	1:90:A:LEU:HD13	1:90:A:LEU:H	6	0.38
(1,6096)	1:90:A:LEU:HD11	1:90:A:LEU:H	10	0.38
(1,6072)	1:89:A:ILE:HG12	1:89:A:ILE:HG22	1	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6050)	1:89:A:ILE:HD12	1:130:A:PHE:HA	6	0.38
(1,6047)	1:89:A:ILE:HA	1:89:A:ILE:HD12	7	0.38
(1,5860)	1:79:A:LEU:HD13	1:89:A:ILE:H	2	0.38
(1,5715)	1:75:A:ILE:HA	1:79:A:LEU:HD21	1	0.38
(1,5613)	1:69:A:GLU:HB3	1:73:A:ALA:HB2	3	0.38
(1,5542)	1:66:A:ILE:HD12	1:71:A:GLU:HG3	3	0.38
(1,5537)	1:66:A:ILE:HA	1:66:A:ILE:HD12	3	0.38
(1,5473)	1:64:A:ILE:HD13	1:130:A:PHE:HA	5	0.38
(1,5441)	1:63:A:MET:HE2	1:63:A:MET:HE1	2	0.38
(1,5441)	1:63:A:MET:HE2	1:63:A:MET:HE1	3	0.38
(1,5441)	1:63:A:MET:HE2	1:63:A:MET:HE1	6	0.38
(1,5441)	1:63:A:MET:HE2	1:63:A:MET:HE1	7	0.38
(1,5441)	1:63:A:MET:HE2	1:63:A:MET:HE1	10	0.38
(1,5412)	1:61:A:ALA:HB1	1:40:A:LEU:HD23	6	0.38
(1,5385)	1:58:A:ASP:H	1:57:A:THR:HG23	2	0.38
(1,5385)	1:58:A:ASP:H	1:57:A:THR:HG21	8	0.38
(1,5381)	1:56:A:CYS:HB3	1:57:A:THR:HG21	9	0.38
(1,5296)	1:52:A:VAL:HA	1:52:A:VAL:HG13	1	0.38
(1,5296)	1:52:A:VAL:HA	1:52:A:VAL:HG11	2	0.38
(1,5296)	1:52:A:VAL:HA	1:52:A:VAL:HG12	4	0.38
(1,5296)	1:52:A:VAL:HA	1:52:A:VAL:HG13	5	0.38
(1,5242)	1:49:A:ILE:HD12	1:128:A:CYS:HB2	2	0.38
(1,5242)	1:49:A:ILE:HD13	1:128:A:CYS:HB2	6	0.38
(1,5225)	1:49:A:ILE:HA	1:49:A:ILE:HG22	4	0.38
(1,5142)	1:44:A:ILE:HG23	1:55:A:GLN:HG3	1	0.38
(1,5142)	1:44:A:ILE:HG23	1:55:A:GLN:HG3	7	0.38
(1,5073)	1:40:A:LEU:HB3	1:40:A:LEU:HD22	3	0.38
(1,5073)	1:40:A:LEU:HB3	1:40:A:LEU:HD23	5	0.38
(1,5073)	1:40:A:LEU:HB3	1:40:A:LEU:HD22	7	0.38
(1,5067)	1:40:A:LEU:HD13	1:152:A:LEU:HD11	5	0.38
(1,5028)	1:38:A:ILE:HG22	1:40:A:LEU:HG	2	0.38
(1,4990)	1:38:A:ILE:HD12	1:30:A:ILE:HG13	3	0.38
(1,4975)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	5	0.38
(1,4975)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	10	0.38
(1,4722)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	1	0.38
(1,4722)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	5	0.38
(1,4721)	1:40:A:LEU:H	1:40:A:LEU:HB2	4	0.38
(1,4721)	1:40:A:LEU:H	1:40:A:LEU:HB2	8	0.38
(1,4721)	1:40:A:LEU:H	1:40:A:LEU:HB2	9	0.38
(1,4721)	1:40:A:LEU:H	1:40:A:LEU:HB2	10	0.38
(1,4663)	1:125:A:VAL:HG11	1:142:A:ASN:HA	6	0.38
(1,4656)	1:91:A:LEU:HD23	1:115:A:TRP:HZ3	1	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4640)	1:76:A:LEU:HD13	1:131:A:LEU:HA	3	0.38
(1,4543)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	1	0.38
(1,4543)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	5	0.38
(1,4542)	1:40:A:LEU:H	1:40:A:LEU:HB2	4	0.38
(1,4542)	1:40:A:LEU:H	1:40:A:LEU:HB2	8	0.38
(1,4542)	1:40:A:LEU:H	1:40:A:LEU:HB2	9	0.38
(1,4542)	1:40:A:LEU:H	1:40:A:LEU:HB2	10	0.38
(1,4484)	1:125:A:VAL:HG11	1:142:A:ASN:HA	6	0.38
(1,4477)	1:91:A:LEU:HD23	1:115:A:TRP:HZ3	1	0.38
(1,4461)	1:76:A:LEU:HD13	1:131:A:LEU:HA	3	0.38
(1,4392)	1:159:A:TYR:H	1:157:A:ILE:HG22	7	0.38
(1,4278)	1:146:A:SER:H	1:145:A:VAL:HG12	8	0.38
(1,4194)	1:139:A:LYS:H	1:116:A:THR:HG23	6	0.38
(1,4076)	1:131:A:LEU:H	1:91:A:LEU:HB3	1	0.38
(1,4052)	1:129:A:ALA:H	1:90:A:LEU:HD11	6	0.38
(1,4052)	1:129:A:ALA:H	1:90:A:LEU:HD12	10	0.38
(1,3976)	1:118:A:GLN:H	1:118:A:GLN:HG2	4	0.38
(1,3257)	1:55:A:GLN:HE21	1:44:A:ILE:HG21	5	0.38
(1,3226)	1:54:A:ASN:H	1:52:A:VAL:HG21	2	0.38
(1,2711)	1:104:A:TRP:HE3	1:91:A:LEU:HD13	9	0.38
(1,2659)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	7	0.38
(1,2637)	1:83:A:TRP:HH2	1:79:A:LEU:HD12	5	0.38
(1,2636)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	9	0.38
(1,2627)	1:74:A:PHE:HZ	1:30:A:ILE:HD11	7	0.38
(1,2627)	1:74:A:PHE:HZ	1:30:A:ILE:HD12	9	0.38
(1,2617)	1:74:A:PHE:HE1	1:75:A:ILE:HA	6	0.38
(1,2444)	1:157:A:ILE:HG22	1:157:A:ILE:HG13	10	0.38
(1,2390)	1:61:A:ALA:HB1	1:155:A:THR:HG22	4	0.38
(1,2316)	1:152:A:LEU:HD21	1:78:A:THR:HB	6	0.38
(1,1953)	1:131:A:LEU:HD23	1:138:A:TRP:HA	7	0.38
(1,1941)	1:131:A:LEU:HD23	1:88:A:ASP:HA	8	0.38
(1,1911)	1:76:A:LEU:H	1:131:A:LEU:HD13	4	0.38
(1,1911)	1:76:A:LEU:H	1:131:A:LEU:HD12	6	0.38
(1,1911)	1:76:A:LEU:H	1:131:A:LEU:HD11	8	0.38
(1,1622)	1:109:A:ASN:HB2	1:111:A:THR:HG23	6	0.38
(1,1530)	1:101:A:SER:HB2	1:100:A:ALA:HB1	10	0.38
(1,1529)	1:101:A:SER:HB2	1:103:A:LYS:HG2	7	0.38
(1,1521)	1:100:A:ALA:HB1	1:99:A:ASP:HA	6	0.38
(1,1517)	1:100:A:ALA:HB2	1:97:A:THR:HB	6	0.38
(1,1405)	1:91:A:LEU:HD23	1:66:A:ILE:HB	4	0.38
(1,1395)	1:91:A:LEU:HD13	1:138:A:TRP:HB3	8	0.38
(1,1380)	1:91:A:LEU:HD13	1:66:A:ILE:HB	8	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1380)	1:91:A:LEU:HD12	1:66:A:ILE:HB	10	0.38
(1,1343)	1:90:A:LEU:HD21	1:90:A:LEU:H	2	0.38
(1,1329)	1:90:A:LEU:HD13	1:90:A:LEU:H	1	0.38
(1,1329)	1:90:A:LEU:HD13	1:90:A:LEU:H	6	0.38
(1,1329)	1:90:A:LEU:HD11	1:90:A:LEU:H	10	0.38
(1,1305)	1:89:A:ILE:HG12	1:89:A:ILE:HG22	1	0.38
(1,1283)	1:89:A:ILE:HD12	1:130:A:PHE:HA	6	0.38
(1,1280)	1:89:A:ILE:HA	1:89:A:ILE:HD12	7	0.38
(1,1093)	1:79:A:LEU:HD13	1:89:A:ILE:H	2	0.38
(1,948)	1:75:A:ILE:HA	1:79:A:LEU:HD21	1	0.38
(1,846)	1:69:A:GLU:HB3	1:73:A:ALA:HB2	3	0.38
(1,775)	1:66:A:ILE:HD12	1:71:A:GLU:HG3	3	0.38
(1,770)	1:66:A:ILE:HA	1:66:A:ILE:HD12	3	0.38
(1,706)	1:64:A:ILE:HD13	1:130:A:PHE:HA	5	0.38
(1,674)	1:63:A:MET:HE2	1:63:A:MET:HE1	2	0.38
(1,674)	1:63:A:MET:HE2	1:63:A:MET:HE1	3	0.38
(1,674)	1:63:A:MET:HE2	1:63:A:MET:HE1	6	0.38
(1,674)	1:63:A:MET:HE2	1:63:A:MET:HE1	7	0.38
(1,674)	1:63:A:MET:HE2	1:63:A:MET:HE1	10	0.38
(1,645)	1:61:A:ALA:HB1	1:40:A:LEU:HD23	6	0.38
(1,618)	1:58:A:ASP:H	1:57:A:THR:HG23	2	0.38
(1,618)	1:58:A:ASP:H	1:57:A:THR:HG21	8	0.38
(1,614)	1:56:A:CYS:HB3	1:57:A:THR:HG21	9	0.38
(1,529)	1:52:A:VAL:HA	1:52:A:VAL:HG13	1	0.38
(1,529)	1:52:A:VAL:HA	1:52:A:VAL:HG11	2	0.38
(1,529)	1:52:A:VAL:HA	1:52:A:VAL:HG12	4	0.38
(1,529)	1:52:A:VAL:HA	1:52:A:VAL:HG13	5	0.38
(1,475)	1:49:A:ILE:HD12	1:128:A:CYS:HB2	2	0.38
(1,475)	1:49:A:ILE:HD13	1:128:A:CYS:HB2	6	0.38
(1,458)	1:49:A:ILE:HA	1:49:A:ILE:HG22	4	0.38
(1,375)	1:44:A:ILE:HG23	1:55:A:GLN:HG3	1	0.38
(1,375)	1:44:A:ILE:HG23	1:55:A:GLN:HG3	7	0.38
(1,306)	1:40:A:LEU:HB3	1:40:A:LEU:HD22	3	0.38
(1,306)	1:40:A:LEU:HB3	1:40:A:LEU:HD23	5	0.38
(1,306)	1:40:A:LEU:HB3	1:40:A:LEU:HD22	7	0.38
(1,300)	1:40:A:LEU:HD13	1:152:A:LEU:HD11	5	0.38
(1,261)	1:38:A:ILE:HG22	1:40:A:LEU:HG	2	0.38
(1,223)	1:38:A:ILE:HD12	1:30:A:ILE:HG13	3	0.38
(1,208)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	5	0.38
(1,208)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	10	0.38
(1,9159)	1:159:A:TYR:H	1:157:A:ILE:HG23	10	0.37
(1,8961)	1:139:A:LYS:H	1:116:A:THR:HG23	4	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8843)	1:131:A:LEU:H	1:91:A:LEU:HB3	4	0.37
(1,8843)	1:131:A:LEU:H	1:91:A:LEU:HB3	5	0.37
(1,8821)	1:129:A:ALA:H	1:91:A:LEU:HD22	10	0.37
(1,8743)	1:118:A:GLN:H	1:118:A:GLN:HG2	8	0.37
(1,8336)	1:78:A:THR:H	1:79:A:LEU:HD22	8	0.37
(1,8133)	1:63:A:MET:H	1:63:A:MET:HE2	9	0.37
(1,7928)	1:49:A:ILE:H	1:46:A:VAL:HG13	8	0.37
(1,7654)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	5	0.37
(1,7654)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	7	0.37
(1,7540)	1:129:A:ALA:HB1	1:115:A:TRP:HH2	7	0.37
(1,7517)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	5	0.37
(1,7515)	1:105:A:PHE:HE1	1:49:A:ILE:HG21	2	0.37
(1,7426)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	3	0.37
(1,7426)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	6	0.37
(1,7404)	1:83:A:TRP:HH2	1:79:A:LEU:HD11	2	0.37
(1,7404)	1:83:A:TRP:HH2	1:79:A:LEU:HD12	3	0.37
(1,7384)	1:74:A:PHE:HE1	1:75:A:ILE:HA	9	0.37
(1,7381)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	4	0.37
(1,7381)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	8	0.37
(1,7324)	1:37:A:TYR:HD1	1:35:A:SER:HB2	7	0.37
(1,7212)	1:157:A:ILE:HG22	1:157:A:ILE:HG23	3	0.37
(1,7212)	1:157:A:ILE:HG22	1:157:A:ILE:HG21	8	0.37
(1,7212)	1:157:A:ILE:HG21	1:157:A:ILE:HG23	9	0.37
(1,7212)	1:157:A:ILE:HG21	1:157:A:ILE:HG23	10	0.37
(1,7211)	1:157:A:ILE:HG23	1:157:A:ILE:HG13	2	0.37
(1,7211)	1:157:A:ILE:HG22	1:157:A:ILE:HG13	5	0.37
(1,7186)	1:35:A:SER:H	1:157:A:ILE:HD11	10	0.37
(1,7174)	1:156:A:ALA:HB2	1:156:A:ALA:HB3	3	0.37
(1,7174)	1:156:A:ALA:HB2	1:156:A:ALA:HB3	5	0.37
(1,7174)	1:156:A:ALA:HB2	1:156:A:ALA:HB3	6	0.37
(1,7174)	1:156:A:ALA:HB1	1:156:A:ALA:HB3	8	0.37
(1,7174)	1:156:A:ALA:HB1	1:156:A:ALA:HB3	9	0.37
(1,7174)	1:156:A:ALA:HB2	1:156:A:ALA:HB3	10	0.37
(1,7083)	1:152:A:LEU:HD21	1:78:A:THR:HB	5	0.37
(1,7074)	1:152:A:LEU:HD12	1:152:A:LEU:HD13	5	0.37
(1,6774)	1:133:A:ILE:HG21	1:77:A:ASP:HA	8	0.37
(1,6708)	1:131:A:LEU:HD22	1:88:A:ASP:HA	4	0.37
(1,6678)	1:76:A:LEU:H	1:131:A:LEU:HD13	1	0.37
(1,6678)	1:76:A:LEU:H	1:131:A:LEU:HD13	3	0.37
(1,6678)	1:76:A:LEU:H	1:131:A:LEU:HD13	9	0.37
(1,6657)	1:129:A:ALA:HB2	1:130:A:PHE:HA	6	0.37
(1,6650)	1:129:A:ALA:HB2	1:104:A:TRP:HH2	4	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6645)	1:129:A:ALA:HB2	1:91:A:LEU:HB3	10	0.37
(1,6594)	1:97:A:THR:HG22	1:125:A:VAL:HB	4	0.37
(1,6389)	1:109:A:ASN:HB2	1:111:A:THR:HG22	1	0.37
(1,6264)	1:98:A:ASP:H	1:97:A:THR:HG21	3	0.37
(1,6172)	1:91:A:LEU:HD23	1:66:A:ILE:HB	8	0.37
(1,6161)	1:91:A:LEU:HD22	1:138:A:TRP:HB2	3	0.37
(1,6110)	1:90:A:LEU:HD23	1:90:A:LEU:H	3	0.37
(1,6050)	1:89:A:ILE:HD12	1:130:A:PHE:HA	7	0.37
(1,6047)	1:89:A:ILE:HA	1:89:A:ILE:HD12	4	0.37
(1,5860)	1:79:A:LEU:HD11	1:89:A:ILE:H	6	0.37
(1,5860)	1:79:A:LEU:HD11	1:89:A:ILE:H	10	0.37
(1,5846)	1:83:A:TRP:H	1:79:A:LEU:HD12	10	0.37
(1,5828)	1:78:A:THR:HG21	1:37:A:TYR:HD1	7	0.37
(1,5792)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	1	0.37
(1,5792)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	3	0.37
(1,5792)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	6	0.37
(1,5792)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	7	0.37
(1,5792)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	8	0.37
(1,5792)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	9	0.37
(1,5792)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	10	0.37
(1,5743)	1:75:A:ILE:HG22	1:78:A:THR:HB	9	0.37
(1,5582)	1:66:A:ILE:HG23	1:138:A:TRP:HZ3	2	0.37
(1,5505)	1:64:A:ILE:HG21	1:65:A:SER:H	7	0.37
(1,5487)	1:64:A:ILE:HD13	1:91:A:LEU:HD23	2	0.37
(1,5487)	1:64:A:ILE:HD13	1:91:A:LEU:HD22	6	0.37
(1,5381)	1:56:A:CYS:HB3	1:57:A:THR:HG21	3	0.37
(1,5381)	1:56:A:CYS:HB3	1:57:A:THR:HG21	7	0.37
(1,5381)	1:56:A:CYS:HB3	1:57:A:THR:HG21	10	0.37
(1,5354)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	1	0.37
(1,5309)	1:51:A:ASP:HB3	1:52:A:VAL:HG13	1	0.37
(1,5296)	1:52:A:VAL:HA	1:52:A:VAL:HG12	3	0.37
(1,5280)	1:50:A:GLU:HG3	1:49:A:ILE:HG21	9	0.37
(1,5257)	1:49:A:ILE:HG21	1:144:A:GLU:HG2	6	0.37
(1,5242)	1:49:A:ILE:HD11	1:128:A:CYS:HB2	8	0.37
(1,5242)	1:49:A:ILE:HD12	1:128:A:CYS:HB2	10	0.37
(1,5225)	1:49:A:ILE:HA	1:49:A:ILE:HG21	2	0.37
(1,5225)	1:49:A:ILE:HA	1:49:A:ILE:HG22	3	0.37
(1,5225)	1:49:A:ILE:HA	1:49:A:ILE:HG21	5	0.37
(1,5142)	1:44:A:ILE:HG23	1:55:A:GLN:HG3	6	0.37
(1,5073)	1:40:A:LEU:HB3	1:40:A:LEU:HD22	2	0.37
(1,5073)	1:40:A:LEU:HB3	1:40:A:LEU:HD22	4	0.37
(1,5073)	1:40:A:LEU:HB3	1:40:A:LEU:HD21	6	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5073)	1:40:A:LEU:HB3	1:40:A:LEU:HD21	8	0.37
(1,5073)	1:40:A:LEU:HB3	1:40:A:LEU:HD21	9	0.37
(1,5028)	1:38:A:ILE:HG22	1:40:A:LEU:HG	4	0.37
(1,5028)	1:38:A:ILE:HG21	1:40:A:LEU:HG	7	0.37
(1,4998)	1:38:A:ILE:HA	1:38:A:ILE:HD13	1	0.37
(1,4726)	1:45:A:LYS:H	1:47:A:GLU:HG3	3	0.37
(1,4640)	1:76:A:LEU:HD11	1:131:A:LEU:HA	7	0.37
(1,4640)	1:76:A:LEU:HD13	1:131:A:LEU:HA	8	0.37
(1,4640)	1:76:A:LEU:HD13	1:131:A:LEU:HA	9	0.37
(1,4547)	1:45:A:LYS:H	1:47:A:GLU:HG3	3	0.37
(1,4461)	1:76:A:LEU:HD11	1:131:A:LEU:HA	7	0.37
(1,4461)	1:76:A:LEU:HD13	1:131:A:LEU:HA	8	0.37
(1,4461)	1:76:A:LEU:HD13	1:131:A:LEU:HA	9	0.37
(1,4392)	1:159:A:TYR:H	1:157:A:ILE:HG23	10	0.37
(1,4194)	1:139:A:LYS:H	1:116:A:THR:HG23	4	0.37
(1,4076)	1:131:A:LEU:H	1:91:A:LEU:HB3	4	0.37
(1,4076)	1:131:A:LEU:H	1:91:A:LEU:HB3	5	0.37
(1,4054)	1:129:A:ALA:H	1:91:A:LEU:HD22	10	0.37
(1,3976)	1:118:A:GLN:H	1:118:A:GLN:HG2	8	0.37
(1,3569)	1:78:A:THR:H	1:79:A:LEU:HD22	8	0.37
(1,3366)	1:63:A:MET:H	1:63:A:MET:HE2	9	0.37
(1,3161)	1:49:A:ILE:H	1:46:A:VAL:HG13	8	0.37
(1,2887)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	5	0.37
(1,2887)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	7	0.37
(1,2773)	1:129:A:ALA:HB1	1:115:A:TRP:HH2	7	0.37
(1,2750)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	5	0.37
(1,2748)	1:105:A:PHE:HE1	1:49:A:ILE:HG21	2	0.37
(1,2659)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	3	0.37
(1,2659)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	6	0.37
(1,2637)	1:83:A:TRP:HH2	1:79:A:LEU:HD11	2	0.37
(1,2637)	1:83:A:TRP:HH2	1:79:A:LEU:HD12	3	0.37
(1,2617)	1:74:A:PHE:HE1	1:75:A:ILE:HA	9	0.37
(1,2614)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	4	0.37
(1,2614)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	8	0.37
(1,2557)	1:37:A:TYR:HD1	1:35:A:SER:HB2	7	0.37
(1,2445)	1:157:A:ILE:HG22	1:157:A:ILE:HG23	3	0.37
(1,2445)	1:157:A:ILE:HG22	1:157:A:ILE:HG21	8	0.37
(1,2445)	1:157:A:ILE:HG21	1:157:A:ILE:HG23	9	0.37
(1,2445)	1:157:A:ILE:HG21	1:157:A:ILE:HG23	10	0.37
(1,2444)	1:157:A:ILE:HG23	1:157:A:ILE:HG13	2	0.37
(1,2444)	1:157:A:ILE:HG22	1:157:A:ILE:HG13	5	0.37
(1,2419)	1:35:A:SER:H	1:157:A:ILE:HD11	10	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2407)	1:156:A:ALA:HB2	1:156:A:ALA:HB3	3	0.37
(1,2407)	1:156:A:ALA:HB2	1:156:A:ALA:HB3	5	0.37
(1,2407)	1:156:A:ALA:HB2	1:156:A:ALA:HB3	6	0.37
(1,2407)	1:156:A:ALA:HB1	1:156:A:ALA:HB3	8	0.37
(1,2407)	1:156:A:ALA:HB1	1:156:A:ALA:HB3	9	0.37
(1,2407)	1:156:A:ALA:HB2	1:156:A:ALA:HB3	10	0.37
(1,2316)	1:152:A:LEU:HD21	1:78:A:THR:HB	5	0.37
(1,2307)	1:152:A:LEU:HD12	1:152:A:LEU:HD13	5	0.37
(1,2007)	1:133:A:ILE:HG21	1:77:A:ASP:HA	8	0.37
(1,1941)	1:131:A:LEU:HD22	1:88:A:ASP:HA	4	0.37
(1,1911)	1:76:A:LEU:H	1:131:A:LEU:HD13	1	0.37
(1,1911)	1:76:A:LEU:H	1:131:A:LEU:HD13	3	0.37
(1,1911)	1:76:A:LEU:H	1:131:A:LEU:HD13	9	0.37
(1,1890)	1:129:A:ALA:HB2	1:130:A:PHE:HA	6	0.37
(1,1883)	1:129:A:ALA:HB2	1:104:A:TRP:HH2	4	0.37
(1,1878)	1:129:A:ALA:HB2	1:91:A:LEU:HB3	10	0.37
(1,1827)	1:97:A:THR:HG22	1:125:A:VAL:HB	4	0.37
(1,1622)	1:109:A:ASN:HB2	1:111:A:THR:HG22	1	0.37
(1,1497)	1:98:A:ASP:H	1:97:A:THR:HG21	3	0.37
(1,1405)	1:91:A:LEU:HD23	1:66:A:ILE:HB	8	0.37
(1,1394)	1:91:A:LEU:HD22	1:138:A:TRP:HB2	3	0.37
(1,1343)	1:90:A:LEU:HD23	1:90:A:LEU:H	3	0.37
(1,1283)	1:89:A:ILE:HD12	1:130:A:PHE:HA	7	0.37
(1,1280)	1:89:A:ILE:HA	1:89:A:ILE:HD12	4	0.37
(1,1093)	1:79:A:LEU:HD11	1:89:A:ILE:H	6	0.37
(1,1093)	1:79:A:LEU:HD11	1:89:A:ILE:H	10	0.37
(1,1079)	1:83:A:TRP:H	1:79:A:LEU:HD12	10	0.37
(1,1061)	1:78:A:THR:HG21	1:37:A:TYR:HD1	7	0.37
(1,1025)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	1	0.37
(1,1025)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	3	0.37
(1,1025)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	6	0.37
(1,1025)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	7	0.37
(1,1025)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	8	0.37
(1,1025)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	9	0.37
(1,1025)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	10	0.37
(1,976)	1:75:A:ILE:HG22	1:78:A:THR:HB	9	0.37
(1,815)	1:66:A:ILE:HG23	1:138:A:TRP:HZ3	2	0.37
(1,738)	1:64:A:ILE:HG21	1:65:A:SER:H	7	0.37
(1,720)	1:64:A:ILE:HD13	1:91:A:LEU:HD23	2	0.37
(1,720)	1:64:A:ILE:HD13	1:91:A:LEU:HD22	6	0.37
(1,614)	1:56:A:CYS:HB3	1:57:A:THR:HG21	3	0.37
(1,614)	1:56:A:CYS:HB3	1:57:A:THR:HG21	7	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,614)	1:56:A:CYS:HB3	1:57:A:THR:HG21	10	0.37
(1,587)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	1	0.37
(1,542)	1:51:A:ASP:HB3	1:52:A:VAL:HG13	1	0.37
(1,529)	1:52:A:VAL:HA	1:52:A:VAL:HG12	3	0.37
(1,513)	1:50:A:GLU:HG3	1:49:A:ILE:HG21	9	0.37
(1,490)	1:49:A:ILE:HG21	1:144:A:GLU:HG2	6	0.37
(1,475)	1:49:A:ILE:HD11	1:128:A:CYS:HB2	8	0.37
(1,475)	1:49:A:ILE:HD12	1:128:A:CYS:HB2	10	0.37
(1,458)	1:49:A:ILE:HA	1:49:A:ILE:HG21	2	0.37
(1,458)	1:49:A:ILE:HA	1:49:A:ILE:HG22	3	0.37
(1,458)	1:49:A:ILE:HA	1:49:A:ILE:HG21	5	0.37
(1,375)	1:44:A:ILE:HG23	1:55:A:GLN:HG3	6	0.37
(1,306)	1:40:A:LEU:HB3	1:40:A:LEU:HD22	2	0.37
(1,306)	1:40:A:LEU:HB3	1:40:A:LEU:HD22	4	0.37
(1,306)	1:40:A:LEU:HB3	1:40:A:LEU:HD21	6	0.37
(1,306)	1:40:A:LEU:HB3	1:40:A:LEU:HD21	8	0.37
(1,306)	1:40:A:LEU:HB3	1:40:A:LEU:HD21	9	0.37
(1,261)	1:38:A:ILE:HG22	1:40:A:LEU:HG	4	0.37
(1,261)	1:38:A:ILE:HG21	1:40:A:LEU:HG	7	0.37
(1,231)	1:38:A:ILE:HA	1:38:A:ILE:HD13	1	0.37
(1,8983)	1:140:A:LYS:H	1:124:A:LEU:HD22	6	0.36
(1,8961)	1:139:A:LYS:H	1:116:A:THR:HG23	2	0.36
(1,8880)	1:133:A:ILE:H	1:131:A:LEU:HD11	10	0.36
(1,8821)	1:129:A:ALA:H	1:91:A:LEU:HD21	3	0.36
(1,8666)	1:110:A:MET:H	1:103:A:LYS:HG2	8	0.36
(1,8336)	1:78:A:THR:H	1:79:A:LEU:HD23	9	0.36
(1,8336)	1:78:A:THR:H	1:79:A:LEU:HD21	10	0.36
(1,8291)	1:75:A:ILE:H	1:32:A:PHE:HD2	3	0.36
(1,7954)	1:51:A:ASP:H	1:49:A:ILE:HG21	8	0.36
(1,7654)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	2	0.36
(1,7654)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	3	0.36
(1,7654)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	4	0.36
(1,7654)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	10	0.36
(1,7540)	1:129:A:ALA:HB1	1:115:A:TRP:HH2	3	0.36
(1,7540)	1:129:A:ALA:HB1	1:115:A:TRP:HH2	6	0.36
(1,7515)	1:105:A:PHE:HE1	1:49:A:ILE:HG21	9	0.36
(1,7426)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	8	0.36
(1,7426)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	10	0.36
(1,7404)	1:83:A:TRP:HH2	1:79:A:LEU:HD13	1	0.36
(1,7404)	1:83:A:TRP:HH2	1:79:A:LEU:HD12	7	0.36
(1,7404)	1:83:A:TRP:HH2	1:79:A:LEU:HD12	9	0.36
(1,7404)	1:83:A:TRP:HH2	1:79:A:LEU:HD12	10	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7381)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	7	0.36
(1,7352)	1:59:A:HIS:HD2	1:38:A:ILE:HD12	1	0.36
(1,7352)	1:59:A:HIS:HD2	1:38:A:ILE:HD13	9	0.36
(1,7212)	1:157:A:ILE:HG22	1:157:A:ILE:HG21	1	0.36
(1,7212)	1:157:A:ILE:HG21	1:157:A:ILE:HG23	2	0.36
(1,7212)	1:157:A:ILE:HG22	1:157:A:ILE:HG21	4	0.36
(1,7212)	1:157:A:ILE:HG21	1:157:A:ILE:HG23	5	0.36
(1,7212)	1:157:A:ILE:HG22	1:157:A:ILE:HG23	6	0.36
(1,7212)	1:157:A:ILE:HG22	1:157:A:ILE:HG23	7	0.36
(1,7206)	1:157:A:ILE:HG21	1:23:A:ASP:HA	10	0.36
(1,7187)	1:157:A:ILE:HD13	1:31:A:GLN:HA	9	0.36
(1,7186)	1:35:A:SER:H	1:157:A:ILE:HD13	6	0.36
(1,7174)	1:156:A:ALA:HB2	1:156:A:ALA:HB1	1	0.36
(1,7174)	1:156:A:ALA:HB2	1:156:A:ALA:HB3	2	0.36
(1,7174)	1:156:A:ALA:HB2	1:156:A:ALA:HB1	4	0.36
(1,7174)	1:156:A:ALA:HB2	1:156:A:ALA:HB3	7	0.36
(1,7083)	1:152:A:LEU:HD21	1:78:A:THR:HB	10	0.36
(1,7074)	1:152:A:LEU:HD11	1:152:A:LEU:HD13	1	0.36
(1,7074)	1:152:A:LEU:HD11	1:152:A:LEU:HD13	2	0.36
(1,7074)	1:152:A:LEU:HD12	1:152:A:LEU:HD11	3	0.36
(1,7074)	1:152:A:LEU:HD12	1:152:A:LEU:HD11	4	0.36
(1,7074)	1:152:A:LEU:HD12	1:152:A:LEU:HD13	6	0.36
(1,7074)	1:152:A:LEU:HD12	1:152:A:LEU:HD11	7	0.36
(1,7074)	1:152:A:LEU:HD11	1:152:A:LEU:HD13	8	0.36
(1,7074)	1:152:A:LEU:HD12	1:152:A:LEU:HD11	9	0.36
(1,7074)	1:152:A:LEU:HD12	1:152:A:LEU:HD13	10	0.36
(1,6811)	1:136:A:GLY:H	1:135:A:THR:HG21	5	0.36
(1,6810)	1:135:A:THR:HG22	1:135:A:THR:HG23	1	0.36
(1,6810)	1:135:A:THR:HG21	1:135:A:THR:HG22	2	0.36
(1,6810)	1:135:A:THR:HG21	1:135:A:THR:HG23	3	0.36
(1,6810)	1:135:A:THR:HG21	1:135:A:THR:HG23	5	0.36
(1,6810)	1:135:A:THR:HG21	1:135:A:THR:HG22	6	0.36
(1,6810)	1:135:A:THR:HG21	1:135:A:THR:HG23	7	0.36
(1,6810)	1:135:A:THR:HG21	1:135:A:THR:HG23	8	0.36
(1,6810)	1:135:A:THR:HG21	1:135:A:THR:HG23	9	0.36
(1,6810)	1:135:A:THR:HG22	1:135:A:THR:HG23	10	0.36
(1,6774)	1:133:A:ILE:HG23	1:77:A:ASP:HA	1	0.36
(1,6645)	1:129:A:ALA:HB2	1:91:A:LEU:HB3	6	0.36
(1,6567)	1:124:A:LEU:HD12	1:95:A:TYR:HD1	8	0.36
(1,6287)	1:99:A:ASP:H	1:100:A:ALA:HB1	9	0.36
(1,6148)	1:91:A:LEU:HD12	1:90:A:LEU:H	4	0.36
(1,6147)	1:91:A:LEU:HD11	1:66:A:ILE:HB	2	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6147)	1:91:A:LEU:HD11	1:66:A:ILE:HB	9	0.36
(1,6047)	1:89:A:ILE:HA	1:89:A:ILE:HD12	6	0.36
(1,6047)	1:89:A:ILE:HA	1:89:A:ILE:HD12	8	0.36
(1,6047)	1:89:A:ILE:HA	1:89:A:ILE:HD11	9	0.36
(1,6045)	1:89:A:ILE:HD12	1:88:A:ASP:HB2	6	0.36
(1,5940)	1:82:A:GLN:HG2	1:78:A:THR:HG23	8	0.36
(1,5880)	1:80:A:LYS:HA	1:80:A:LYS:HE2	6	0.36
(1,5860)	1:79:A:LEU:HD12	1:89:A:ILE:H	1	0.36
(1,5860)	1:79:A:LEU:HD13	1:89:A:ILE:H	8	0.36
(1,5792)	1:76:A:LEU:HD21	1:76:A:LEU:HD23	2	0.36
(1,5792)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	4	0.36
(1,5792)	1:76:A:LEU:HD21	1:76:A:LEU:HD23	5	0.36
(1,5788)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	6	0.36
(1,5742)	1:75:A:ILE:HG23	1:78:A:THR:H	1	0.36
(1,5723)	1:71:A:GLU:HG3	1:75:A:ILE:HD11	6	0.36
(1,5723)	1:71:A:GLU:HG3	1:75:A:ILE:HD13	8	0.36
(1,5723)	1:71:A:GLU:HG3	1:75:A:ILE:HD13	9	0.36
(1,5628)	1:70:A:GLU:HB2	1:73:A:ALA:HB1	3	0.36
(1,5603)	1:69:A:GLU:HA	1:73:A:ALA:HB2	3	0.36
(1,5603)	1:69:A:GLU:HA	1:73:A:ALA:HB2	7	0.36
(1,5603)	1:69:A:GLU:HA	1:73:A:ALA:HB2	10	0.36
(1,5576)	1:66:A:ILE:HG21	1:91:A:LEU:HD23	7	0.36
(1,5565)	1:66:A:ILE:HG23	1:113:A:ASP:HA	1	0.36
(1,5537)	1:66:A:ILE:HA	1:66:A:ILE:HD12	6	0.36
(1,5505)	1:64:A:ILE:HG23	1:65:A:SER:H	10	0.36
(1,5381)	1:56:A:CYS:HB3	1:57:A:THR:HG22	4	0.36
(1,5354)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	2	0.36
(1,5318)	1:52:A:VAL:HG21	1:52:A:VAL:H	2	0.36
(1,5309)	1:51:A:ASP:HB3	1:52:A:VAL:HG12	7	0.36
(1,5274)	1:50:A:GLU:HA	1:53:A:ARG:HB2	4	0.36
(1,5274)	1:50:A:GLU:HA	1:53:A:ARG:HB2	7	0.36
(1,5242)	1:49:A:ILE:HD13	1:128:A:CYS:HB2	4	0.36
(1,5225)	1:49:A:ILE:HA	1:49:A:ILE:HG21	9	0.36
(1,5225)	1:49:A:ILE:HA	1:49:A:ILE:HG22	10	0.36
(1,5210)	1:48:A:SER:HA	1:49:A:ILE:HG21	6	0.36
(1,5189)	1:46:A:VAL:HG22	1:46:A:VAL:HG21	3	0.36
(1,5189)	1:46:A:VAL:HG22	1:46:A:VAL:HG21	6	0.36
(1,5189)	1:46:A:VAL:HG22	1:46:A:VAL:HG23	8	0.36
(1,5189)	1:46:A:VAL:HG22	1:46:A:VAL:HG21	9	0.36
(1,5183)	1:46:A:VAL:HG13	1:148:A:VAL:HG22	4	0.36
(1,5164)	1:45:A:LYS:HG3	1:46:A:VAL:HG23	2	0.36
(1,5148)	1:55:A:GLN:HE22	1:44:A:ILE:HG21	1	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5142)	1:44:A:ILE:HG21	1:55:A:GLN:HG3	3	0.36
(1,5133)	1:45:A:LYS:H	1:44:A:ILE:HD13	3	0.36
(1,5133)	1:45:A:LYS:H	1:44:A:ILE:HD12	4	0.36
(1,5073)	1:40:A:LEU:HB3	1:40:A:LEU:HD21	10	0.36
(1,5067)	1:40:A:LEU:HD12	1:152:A:LEU:HD12	8	0.36
(1,5028)	1:38:A:ILE:HG22	1:40:A:LEU:HG	3	0.36
(1,5028)	1:38:A:ILE:HG21	1:40:A:LEU:HG	5	0.36
(1,5028)	1:38:A:ILE:HG23	1:40:A:LEU:HG	8	0.36
(1,4998)	1:38:A:ILE:HA	1:38:A:ILE:HD12	2	0.36
(1,4998)	1:38:A:ILE:HA	1:38:A:ILE:HD13	6	0.36
(1,4978)	1:37:A:TYR:HB2	1:152:A:LEU:HD21	5	0.36
(1,4978)	1:37:A:TYR:HB2	1:152:A:LEU:HD21	6	0.36
(1,4873)	1:31:A:GLN:H	1:30:A:ILE:HG21	9	0.36
(1,4873)	1:31:A:GLN:H	1:30:A:ILE:HG23	10	0.36
(1,4872)	1:30:A:ILE:HG22	1:30:A:ILE:HG21	1	0.36
(1,4872)	1:30:A:ILE:HG21	1:30:A:ILE:HG23	2	0.36
(1,4872)	1:30:A:ILE:HG22	1:30:A:ILE:HG23	7	0.36
(1,4872)	1:30:A:ILE:HG21	1:30:A:ILE:HG23	8	0.36
(1,4832)	1:28:A:THR:HG22	1:38:A:ILE:HD12	9	0.36
(1,4759)	1:137:A:GLU:H	1:131:A:LEU:HG	1	0.36
(1,4757)	1:131:A:LEU:H	1:131:A:LEU:HG	5	0.36
(1,4722)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	3	0.36
(1,4722)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	9	0.36
(1,4712)	1:31:A:GLN:HE22	1:23:A:ASP:HA	1	0.36
(1,4670)	1:134:A:LYS:HA	1:133:A:ILE:HB	5	0.36
(1,4670)	1:134:A:LYS:HA	1:133:A:ILE:HB	8	0.36
(1,4656)	1:91:A:LEU:HD23	1:115:A:TRP:HZ2	6	0.36
(1,4640)	1:76:A:LEU:HD13	1:131:A:LEU:HA	5	0.36
(1,4625)	1:66:A:ILE:HD11	1:136:A:GLY:HA2	10	0.36
(1,4618)	1:64:A:ILE:HA	1:154:A:LYS:HE3	3	0.36
(1,4580)	1:137:A:GLU:H	1:131:A:LEU:HG	1	0.36
(1,4578)	1:131:A:LEU:H	1:131:A:LEU:HG	5	0.36
(1,4543)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	3	0.36
(1,4543)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	9	0.36
(1,4533)	1:31:A:GLN:HE22	1:23:A:ASP:HA	1	0.36
(1,4491)	1:134:A:LYS:HA	1:133:A:ILE:HB	5	0.36
(1,4491)	1:134:A:LYS:HA	1:133:A:ILE:HB	8	0.36
(1,4477)	1:91:A:LEU:HD23	1:115:A:TRP:HZ2	6	0.36
(1,4461)	1:76:A:LEU:HD13	1:131:A:LEU:HA	5	0.36
(1,4446)	1:66:A:ILE:HD11	1:136:A:GLY:HA2	10	0.36
(1,4439)	1:64:A:ILE:HA	1:154:A:LYS:HE3	3	0.36
(1,4216)	1:140:A:LYS:H	1:124:A:LEU:HD22	6	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4194)	1:139:A:LYS:H	1:116:A:THR:HG23	2	0.36
(1,4113)	1:133:A:ILE:H	1:131:A:LEU:HD11	10	0.36
(1,4054)	1:129:A:ALA:H	1:91:A:LEU:HD21	3	0.36
(1,3899)	1:110:A:MET:H	1:103:A:LYS:HG2	8	0.36
(1,3569)	1:78:A:THR:H	1:79:A:LEU:HD23	9	0.36
(1,3569)	1:78:A:THR:H	1:79:A:LEU:HD21	10	0.36
(1,3524)	1:75:A:ILE:H	1:32:A:PHE:HD2	3	0.36
(1,3187)	1:51:A:ASP:H	1:49:A:ILE:HG21	8	0.36
(1,2887)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	2	0.36
(1,2887)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	3	0.36
(1,2887)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	4	0.36
(1,2887)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	10	0.36
(1,2773)	1:129:A:ALA:HB1	1:115:A:TRP:HH2	3	0.36
(1,2773)	1:129:A:ALA:HB1	1:115:A:TRP:HH2	6	0.36
(1,2748)	1:105:A:PHE:HE1	1:49:A:ILE:HG21	9	0.36
(1,2659)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	8	0.36
(1,2659)	1:94:A:PHE:HB2	1:94:A:PHE:HD1	10	0.36
(1,2637)	1:83:A:TRP:HH2	1:79:A:LEU:HD13	1	0.36
(1,2637)	1:83:A:TRP:HH2	1:79:A:LEU:HD12	7	0.36
(1,2637)	1:83:A:TRP:HH2	1:79:A:LEU:HD12	9	0.36
(1,2637)	1:83:A:TRP:HH2	1:79:A:LEU:HD12	10	0.36
(1,2614)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	7	0.36
(1,2585)	1:59:A:HIS:HD2	1:38:A:ILE:HD12	1	0.36
(1,2585)	1:59:A:HIS:HD2	1:38:A:ILE:HD13	9	0.36
(1,2445)	1:157:A:ILE:HG22	1:157:A:ILE:HG21	1	0.36
(1,2445)	1:157:A:ILE:HG21	1:157:A:ILE:HG23	2	0.36
(1,2445)	1:157:A:ILE:HG22	1:157:A:ILE:HG21	4	0.36
(1,2445)	1:157:A:ILE:HG21	1:157:A:ILE:HG23	5	0.36
(1,2445)	1:157:A:ILE:HG22	1:157:A:ILE:HG23	6	0.36
(1,2445)	1:157:A:ILE:HG22	1:157:A:ILE:HG23	7	0.36
(1,2439)	1:157:A:ILE:HG21	1:23:A:ASP:HA	10	0.36
(1,2420)	1:157:A:ILE:HD13	1:31:A:GLN:HA	9	0.36
(1,2419)	1:35:A:SER:H	1:157:A:ILE:HD13	6	0.36
(1,2407)	1:156:A:ALA:HB2	1:156:A:ALA:HB1	1	0.36
(1,2407)	1:156:A:ALA:HB2	1:156:A:ALA:HB3	2	0.36
(1,2407)	1:156:A:ALA:HB2	1:156:A:ALA:HB1	4	0.36
(1,2407)	1:156:A:ALA:HB2	1:156:A:ALA:HB3	7	0.36
(1,2316)	1:152:A:LEU:HD21	1:78:A:THR:HB	10	0.36
(1,2307)	1:152:A:LEU:HD11	1:152:A:LEU:HD13	1	0.36
(1,2307)	1:152:A:LEU:HD11	1:152:A:LEU:HD13	2	0.36
(1,2307)	1:152:A:LEU:HD12	1:152:A:LEU:HD11	3	0.36
(1,2307)	1:152:A:LEU:HD12	1:152:A:LEU:HD11	4	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2307)	1:152:A:LEU:HD12	1:152:A:LEU:HD13	6	0.36
(1,2307)	1:152:A:LEU:HD12	1:152:A:LEU:HD11	7	0.36
(1,2307)	1:152:A:LEU:HD11	1:152:A:LEU:HD13	8	0.36
(1,2307)	1:152:A:LEU:HD12	1:152:A:LEU:HD11	9	0.36
(1,2307)	1:152:A:LEU:HD12	1:152:A:LEU:HD13	10	0.36
(1,2044)	1:136:A:GLY:H	1:135:A:THR:HG21	5	0.36
(1,2043)	1:135:A:THR:HG22	1:135:A:THR:HG23	1	0.36
(1,2043)	1:135:A:THR:HG21	1:135:A:THR:HG22	2	0.36
(1,2043)	1:135:A:THR:HG21	1:135:A:THR:HG23	3	0.36
(1,2043)	1:135:A:THR:HG21	1:135:A:THR:HG23	5	0.36
(1,2043)	1:135:A:THR:HG21	1:135:A:THR:HG22	6	0.36
(1,2043)	1:135:A:THR:HG21	1:135:A:THR:HG23	7	0.36
(1,2043)	1:135:A:THR:HG21	1:135:A:THR:HG23	8	0.36
(1,2043)	1:135:A:THR:HG21	1:135:A:THR:HG23	9	0.36
(1,2043)	1:135:A:THR:HG22	1:135:A:THR:HG23	10	0.36
(1,2007)	1:133:A:ILE:HG23	1:77:A:ASP:HA	1	0.36
(1,1878)	1:129:A:ALA:HB2	1:91:A:LEU:HB3	6	0.36
(1,1800)	1:124:A:LEU:HD12	1:95:A:TYR:HD1	8	0.36
(1,1520)	1:99:A:ASP:H	1:100:A:ALA:HB1	9	0.36
(1,1381)	1:91:A:LEU:HD12	1:90:A:LEU:H	4	0.36
(1,1380)	1:91:A:LEU:HD11	1:66:A:ILE:HB	2	0.36
(1,1380)	1:91:A:LEU:HD11	1:66:A:ILE:HB	9	0.36
(1,1280)	1:89:A:ILE:HA	1:89:A:ILE:HD12	6	0.36
(1,1280)	1:89:A:ILE:HA	1:89:A:ILE:HD12	8	0.36
(1,1280)	1:89:A:ILE:HA	1:89:A:ILE:HD11	9	0.36
(1,1278)	1:89:A:ILE:HD12	1:88:A:ASP:HB2	6	0.36
(1,1173)	1:82:A:GLN:HG2	1:78:A:THR:HG23	8	0.36
(1,1113)	1:80:A:LYS:HA	1:80:A:LYS:HE2	6	0.36
(1,1093)	1:79:A:LEU:HD12	1:89:A:ILE:H	1	0.36
(1,1093)	1:79:A:LEU:HD13	1:89:A:ILE:H	8	0.36
(1,1025)	1:76:A:LEU:HD21	1:76:A:LEU:HD23	2	0.36
(1,1025)	1:76:A:LEU:HD22	1:76:A:LEU:HD23	4	0.36
(1,1025)	1:76:A:LEU:HD21	1:76:A:LEU:HD23	5	0.36
(1,1021)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	6	0.36
(1,975)	1:75:A:ILE:HG23	1:78:A:THR:H	1	0.36
(1,956)	1:71:A:GLU:HG3	1:75:A:ILE:HD11	6	0.36
(1,956)	1:71:A:GLU:HG3	1:75:A:ILE:HD13	8	0.36
(1,956)	1:71:A:GLU:HG3	1:75:A:ILE:HD13	9	0.36
(1,861)	1:70:A:GLU:HB2	1:73:A:ALA:HB1	3	0.36
(1,836)	1:69:A:GLU:HA	1:73:A:ALA:HB2	3	0.36
(1,836)	1:69:A:GLU:HA	1:73:A:ALA:HB2	7	0.36
(1,836)	1:69:A:GLU:HA	1:73:A:ALA:HB2	10	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,809)	1:66:A:ILE:HG21	1:91:A:LEU:HD23	7	0.36
(1,798)	1:66:A:ILE:HG23	1:113:A:ASP:HA	1	0.36
(1,770)	1:66:A:ILE:HA	1:66:A:ILE:HD12	6	0.36
(1,738)	1:64:A:ILE:HG23	1:65:A:SER:H	10	0.36
(1,614)	1:56:A:CYS:HB3	1:57:A:THR:HG22	4	0.36
(1,587)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	2	0.36
(1,551)	1:52:A:VAL:HG21	1:52:A:VAL:H	2	0.36
(1,542)	1:51:A:ASP:HB3	1:52:A:VAL:HG12	7	0.36
(1,507)	1:50:A:GLU:HA	1:53:A:ARG:HB2	4	0.36
(1,507)	1:50:A:GLU:HA	1:53:A:ARG:HB2	7	0.36
(1,475)	1:49:A:ILE:HD13	1:128:A:CYS:HB2	4	0.36
(1,458)	1:49:A:ILE:HA	1:49:A:ILE:HG21	9	0.36
(1,458)	1:49:A:ILE:HA	1:49:A:ILE:HG22	10	0.36
(1,443)	1:48:A:SER:HA	1:49:A:ILE:HG21	6	0.36
(1,422)	1:46:A:VAL:HG22	1:46:A:VAL:HG21	3	0.36
(1,422)	1:46:A:VAL:HG22	1:46:A:VAL:HG21	6	0.36
(1,422)	1:46:A:VAL:HG22	1:46:A:VAL:HG23	8	0.36
(1,422)	1:46:A:VAL:HG22	1:46:A:VAL:HG21	9	0.36
(1,416)	1:46:A:VAL:HG13	1:148:A:VAL:HG22	4	0.36
(1,397)	1:45:A:LYS:HG3	1:46:A:VAL:HG23	2	0.36
(1,381)	1:55:A:GLN:HE22	1:44:A:ILE:HG21	1	0.36
(1,375)	1:44:A:ILE:HG21	1:55:A:GLN:HG3	3	0.36
(1,366)	1:45:A:LYS:H	1:44:A:ILE:HD13	3	0.36
(1,366)	1:45:A:LYS:H	1:44:A:ILE:HD12	4	0.36
(1,306)	1:40:A:LEU:HB3	1:40:A:LEU:HD21	10	0.36
(1,300)	1:40:A:LEU:HD12	1:152:A:LEU:HD12	8	0.36
(1,261)	1:38:A:ILE:HG22	1:40:A:LEU:HG	3	0.36
(1,261)	1:38:A:ILE:HG21	1:40:A:LEU:HG	5	0.36
(1,261)	1:38:A:ILE:HG23	1:40:A:LEU:HG	8	0.36
(1,231)	1:38:A:ILE:HA	1:38:A:ILE:HD12	2	0.36
(1,231)	1:38:A:ILE:HA	1:38:A:ILE:HD13	6	0.36
(1,211)	1:37:A:TYR:HB2	1:152:A:LEU:HD21	5	0.36
(1,211)	1:37:A:TYR:HB2	1:152:A:LEU:HD21	6	0.36
(1,106)	1:31:A:GLN:H	1:30:A:ILE:HG21	9	0.36
(1,106)	1:31:A:GLN:H	1:30:A:ILE:HG23	10	0.36
(1,105)	1:30:A:ILE:HG22	1:30:A:ILE:HG21	1	0.36
(1,105)	1:30:A:ILE:HG21	1:30:A:ILE:HG23	2	0.36
(1,105)	1:30:A:ILE:HG22	1:30:A:ILE:HG23	7	0.36
(1,105)	1:30:A:ILE:HG21	1:30:A:ILE:HG23	8	0.36
(1,65)	1:28:A:THR:HG22	1:38:A:ILE:HD12	9	0.36
(1,8880)	1:133:A:ILE:H	1:131:A:LEU:HD13	5	0.35
(1,8843)	1:131:A:LEU:H	1:91:A:LEU:HB3	2	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8843)	1:131:A:LEU:H	1:91:A:LEU:HB3	3	0.35
(1,8843)	1:131:A:LEU:H	1:91:A:LEU:HB3	6	0.35
(1,8819)	1:129:A:ALA:H	1:90:A:LEU:HD12	2	0.35
(1,8610)	1:105:A:PHE:H	1:105:A:PHE:HD1	4	0.35
(1,8610)	1:105:A:PHE:H	1:105:A:PHE:HD1	9	0.35
(1,8374)	1:82:A:GLN:HE22	1:30:A:ILE:HG22	1	0.35
(1,8133)	1:63:A:MET:H	1:63:A:MET:HE3	3	0.35
(1,7928)	1:49:A:ILE:H	1:46:A:VAL:HG13	1	0.35
(1,7928)	1:49:A:ILE:H	1:46:A:VAL:HG11	2	0.35
(1,7654)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	1	0.35
(1,7654)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	6	0.35
(1,7654)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	8	0.35
(1,7654)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	9	0.35
(1,7540)	1:129:A:ALA:HB1	1:115:A:TRP:HH2	9	0.35
(1,7540)	1:129:A:ALA:HB1	1:115:A:TRP:HH2	10	0.35
(1,7515)	1:105:A:PHE:HE1	1:49:A:ILE:HG21	8	0.35
(1,7384)	1:74:A:PHE:HE1	1:75:A:ILE:HA	2	0.35
(1,7352)	1:59:A:HIS:HD2	1:38:A:ILE:HD13	7	0.35
(1,7211)	1:157:A:ILE:HG23	1:157:A:ILE:HG13	4	0.35
(1,7211)	1:157:A:ILE:HG21	1:157:A:ILE:HG13	6	0.35
(1,7206)	1:157:A:ILE:HG23	1:23:A:ASP:HA	7	0.35
(1,7203)	1:157:A:ILE:HG21	1:35:A:SER:HB2	7	0.35
(1,7186)	1:35:A:SER:H	1:157:A:ILE:HD12	2	0.35
(1,7075)	1:152:A:LEU:HD13	1:153:A:CYS:HB2	3	0.35
(1,6811)	1:136:A:GLY:H	1:135:A:THR:HG22	1	0.35
(1,6810)	1:135:A:THR:HG22	1:135:A:THR:HG23	4	0.35
(1,6774)	1:133:A:ILE:HG21	1:77:A:ASP:HA	2	0.35
(1,6774)	1:133:A:ILE:HG23	1:77:A:ASP:HA	4	0.35
(1,6694)	1:131:A:LEU:HD13	1:138:A:TRP:H	8	0.35
(1,6645)	1:129:A:ALA:HB2	1:91:A:LEU:HB3	2	0.35
(1,6522)	1:116:A:THR:HG23	1:139:A:LYS:HA	1	0.35
(1,6288)	1:100:A:ALA:HB1	1:99:A:ASP:HA	5	0.35
(1,6287)	1:99:A:ASP:H	1:100:A:ALA:HB1	8	0.35
(1,6162)	1:91:A:LEU:HD11	1:138:A:TRP:HB3	9	0.35
(1,6073)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	1	0.35
(1,6073)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	2	0.35
(1,6073)	1:89:A:ILE:HG22	1:89:A:ILE:HG23	3	0.35
(1,6073)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	4	0.35
(1,6073)	1:89:A:ILE:HG22	1:89:A:ILE:HG21	5	0.35
(1,6073)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	6	0.35
(1,6073)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	7	0.35
(1,6073)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	8	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6073)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	9	0.35
(1,6073)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	10	0.35
(1,6047)	1:89:A:ILE:HA	1:89:A:ILE:HD13	3	0.35
(1,6047)	1:89:A:ILE:HA	1:89:A:ILE:HD11	5	0.35
(1,6047)	1:89:A:ILE:HA	1:89:A:ILE:HD11	10	0.35
(1,5847)	1:79:A:LEU:HD11	1:86:A:PRO:HB3	10	0.35
(1,5846)	1:83:A:TRP:H	1:79:A:LEU:HD12	7	0.35
(1,5740)	1:75:A:ILE:HG22	1:83:A:TRP:HZ3	5	0.35
(1,5740)	1:75:A:ILE:HG23	1:83:A:TRP:HZ3	6	0.35
(1,5723)	1:71:A:GLU:HG3	1:75:A:ILE:HD11	3	0.35
(1,5723)	1:71:A:GLU:HG3	1:75:A:ILE:HD13	7	0.35
(1,5695)	1:73:A:ALA:HB2	1:73:A:ALA:HB1	1	0.35
(1,5695)	1:73:A:ALA:HB2	1:73:A:ALA:HB1	3	0.35
(1,5505)	1:64:A:ILE:HG21	1:65:A:SER:H	6	0.35
(1,5473)	1:64:A:ILE:HD11	1:130:A:PHE:HA	3	0.35
(1,5405)	1:61:A:ALA:HA	1:155:A:THR:HG23	3	0.35
(1,5381)	1:56:A:CYS:HB3	1:57:A:THR:HG23	2	0.35
(1,5381)	1:56:A:CYS:HB3	1:57:A:THR:HG21	5	0.35
(1,5354)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	6	0.35
(1,5354)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	9	0.35
(1,5309)	1:51:A:ASP:HB3	1:52:A:VAL:HG13	5	0.35
(1,5296)	1:52:A:VAL:HA	1:52:A:VAL:HG12	7	0.35
(1,5274)	1:50:A:GLU:HA	1:53:A:ARG:HB2	2	0.35
(1,5240)	1:49:A:ILE:HD11	1:49:A:ILE:HD13	7	0.35
(1,5240)	1:49:A:ILE:HD11	1:49:A:ILE:HD13	8	0.35
(1,5210)	1:48:A:SER:HA	1:49:A:ILE:HG23	10	0.35
(1,5189)	1:46:A:VAL:HG22	1:46:A:VAL:HG23	1	0.35
(1,5189)	1:46:A:VAL:HG21	1:46:A:VAL:HG23	2	0.35
(1,5189)	1:46:A:VAL:HG22	1:46:A:VAL:HG21	4	0.35
(1,5189)	1:46:A:VAL:HG22	1:46:A:VAL:HG21	5	0.35
(1,5189)	1:46:A:VAL:HG22	1:46:A:VAL:HG21	7	0.35
(1,5189)	1:46:A:VAL:HG21	1:46:A:VAL:HG23	10	0.35
(1,5184)	1:51:A:ASP:H	1:46:A:VAL:HG22	6	0.35
(1,5183)	1:46:A:VAL:HG13	1:148:A:VAL:HG23	5	0.35
(1,5178)	1:46:A:VAL:HG11	1:46:A:VAL:HG13	2	0.35
(1,5178)	1:46:A:VAL:HG11	1:46:A:VAL:HG13	3	0.35
(1,5178)	1:46:A:VAL:HG12	1:46:A:VAL:HG11	6	0.35
(1,5178)	1:46:A:VAL:HG11	1:46:A:VAL:HG13	9	0.35
(1,5142)	1:44:A:ILE:HG21	1:55:A:GLN:HG3	8	0.35
(1,5142)	1:44:A:ILE:HG22	1:55:A:GLN:HG3	9	0.35
(1,5142)	1:44:A:ILE:HG23	1:55:A:GLN:HG3	10	0.35
(1,5133)	1:45:A:LYS:H	1:44:A:ILE:HD12	5	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5133)	1:45:A:LYS:H	1:44:A:ILE:HD13	6	0.35
(1,5118)	1:40:A:LEU:HD13	1:42:A:GLU:HG2	5	0.35
(1,5067)	1:40:A:LEU:HD12	1:152:A:LEU:HD13	7	0.35
(1,5046)	1:38:A:ILE:HG21	1:40:A:LEU:HB2	1	0.35
(1,4990)	1:38:A:ILE:HD11	1:30:A:ILE:HG13	7	0.35
(1,4978)	1:37:A:TYR:HB2	1:152:A:LEU:HD21	10	0.35
(1,4975)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	2	0.35
(1,4872)	1:30:A:ILE:HG22	1:30:A:ILE:HG23	3	0.35
(1,4872)	1:30:A:ILE:HG22	1:30:A:ILE:HG21	4	0.35
(1,4872)	1:30:A:ILE:HG22	1:30:A:ILE:HG23	5	0.35
(1,4872)	1:30:A:ILE:HG22	1:30:A:ILE:HG21	6	0.35
(1,4872)	1:30:A:ILE:HG22	1:30:A:ILE:HG21	9	0.35
(1,4872)	1:30:A:ILE:HG22	1:30:A:ILE:HG21	10	0.35
(1,4850)	1:30:A:ILE:HD13	1:30:A:ILE:HA	2	0.35
(1,4850)	1:30:A:ILE:HD11	1:30:A:ILE:HA	4	0.35
(1,4850)	1:30:A:ILE:HD13	1:30:A:ILE:HA	6	0.35
(1,4850)	1:30:A:ILE:HD12	1:30:A:ILE:HA	8	0.35
(1,4757)	1:131:A:LEU:H	1:131:A:LEU:HG	1	0.35
(1,4757)	1:131:A:LEU:H	1:131:A:LEU:HG	8	0.35
(1,4722)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	6	0.35
(1,4670)	1:134:A:LYS:HA	1:76:A:LEU:HG	2	0.35
(1,4636)	1:75:A:ILE:HG22	1:64:A:ILE:HG13	4	0.35
(1,4636)	1:75:A:ILE:HG21	1:64:A:ILE:HG13	9	0.35
(1,4578)	1:131:A:LEU:H	1:131:A:LEU:HG	1	0.35
(1,4578)	1:131:A:LEU:H	1:131:A:LEU:HG	8	0.35
(1,4543)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	6	0.35
(1,4491)	1:134:A:LYS:HA	1:76:A:LEU:HG	2	0.35
(1,4457)	1:75:A:ILE:HG22	1:64:A:ILE:HG13	4	0.35
(1,4457)	1:75:A:ILE:HG21	1:64:A:ILE:HG13	9	0.35
(1,4113)	1:133:A:ILE:H	1:131:A:LEU:HD13	5	0.35
(1,4076)	1:131:A:LEU:H	1:91:A:LEU:HB3	2	0.35
(1,4076)	1:131:A:LEU:H	1:91:A:LEU:HB3	3	0.35
(1,4076)	1:131:A:LEU:H	1:91:A:LEU:HB3	6	0.35
(1,4052)	1:129:A:ALA:H	1:90:A:LEU:HD12	2	0.35
(1,3843)	1:105:A:PHE:H	1:105:A:PHE:HD1	4	0.35
(1,3843)	1:105:A:PHE:H	1:105:A:PHE:HD1	9	0.35
(1,3607)	1:82:A:GLN:HE22	1:30:A:ILE:HG22	1	0.35
(1,3366)	1:63:A:MET:H	1:63:A:MET:HE3	3	0.35
(1,3161)	1:49:A:ILE:H	1:46:A:VAL:HG13	1	0.35
(1,3161)	1:49:A:ILE:H	1:46:A:VAL:HG11	2	0.35
(1,2887)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	1	0.35
(1,2887)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	6	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2887)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	8	0.35
(1,2887)	1:159:A:TYR:HB2	1:159:A:TYR:HE1	9	0.35
(1,2773)	1:129:A:ALA:HB1	1:115:A:TRP:HH2	9	0.35
(1,2773)	1:129:A:ALA:HB1	1:115:A:TRP:HH2	10	0.35
(1,2748)	1:105:A:PHE:HE1	1:49:A:ILE:HG21	8	0.35
(1,2617)	1:74:A:PHE:HE1	1:75:A:ILE:HA	2	0.35
(1,2585)	1:59:A:HIS:HD2	1:38:A:ILE:HD13	7	0.35
(1,2444)	1:157:A:ILE:HG23	1:157:A:ILE:HG13	4	0.35
(1,2444)	1:157:A:ILE:HG21	1:157:A:ILE:HG13	6	0.35
(1,2439)	1:157:A:ILE:HG23	1:23:A:ASP:HA	7	0.35
(1,2436)	1:157:A:ILE:HG21	1:35:A:SER:HB2	7	0.35
(1,2419)	1:35:A:SER:H	1:157:A:ILE:HD12	2	0.35
(1,2308)	1:152:A:LEU:HD13	1:153:A:CYS:HB2	3	0.35
(1,2044)	1:136:A:GLY:H	1:135:A:THR:HG22	1	0.35
(1,2043)	1:135:A:THR:HG22	1:135:A:THR:HG23	4	0.35
(1,2007)	1:133:A:ILE:HG21	1:77:A:ASP:HA	2	0.35
(1,2007)	1:133:A:ILE:HG23	1:77:A:ASP:HA	4	0.35
(1,1927)	1:131:A:LEU:HD13	1:138:A:TRP:H	8	0.35
(1,1878)	1:129:A:ALA:HB2	1:91:A:LEU:HB3	2	0.35
(1,1755)	1:116:A:THR:HG23	1:139:A:LYS:HA	1	0.35
(1,1521)	1:100:A:ALA:HB1	1:99:A:ASP:HA	5	0.35
(1,1520)	1:99:A:ASP:H	1:100:A:ALA:HB1	8	0.35
(1,1395)	1:91:A:LEU:HD11	1:138:A:TRP:HB3	9	0.35
(1,1306)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	1	0.35
(1,1306)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	2	0.35
(1,1306)	1:89:A:ILE:HG22	1:89:A:ILE:HG23	3	0.35
(1,1306)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	4	0.35
(1,1306)	1:89:A:ILE:HG22	1:89:A:ILE:HG21	5	0.35
(1,1306)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	6	0.35
(1,1306)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	7	0.35
(1,1306)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	8	0.35
(1,1306)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	9	0.35
(1,1306)	1:89:A:ILE:HG21	1:89:A:ILE:HG23	10	0.35
(1,1280)	1:89:A:ILE:HA	1:89:A:ILE:HD13	3	0.35
(1,1280)	1:89:A:ILE:HA	1:89:A:ILE:HD11	5	0.35
(1,1280)	1:89:A:ILE:HA	1:89:A:ILE:HD11	10	0.35
(1,1080)	1:79:A:LEU:HD11	1:86:A:PRO:HB3	10	0.35
(1,1079)	1:83:A:TRP:H	1:79:A:LEU:HD12	7	0.35
(1,973)	1:75:A:ILE:HG22	1:83:A:TRP:HZ3	5	0.35
(1,973)	1:75:A:ILE:HG23	1:83:A:TRP:HZ3	6	0.35
(1,956)	1:71:A:GLU:HG3	1:75:A:ILE:HD11	3	0.35
(1,956)	1:71:A:GLU:HG3	1:75:A:ILE:HD13	7	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,928)	1:73:A:ALA:HB2	1:73:A:ALA:HB1	1	0.35
(1,928)	1:73:A:ALA:HB2	1:73:A:ALA:HB1	3	0.35
(1,738)	1:64:A:ILE:HG21	1:65:A:SER:H	6	0.35
(1,706)	1:64:A:ILE:HD11	1:130:A:PHE:HA	3	0.35
(1,638)	1:61:A:ALA:HA	1:155:A:THR:HG23	3	0.35
(1,614)	1:56:A:CYS:HB3	1:57:A:THR:HG23	2	0.35
(1,614)	1:56:A:CYS:HB3	1:57:A:THR:HG21	5	0.35
(1,587)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	6	0.35
(1,587)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	9	0.35
(1,542)	1:51:A:ASP:HB3	1:52:A:VAL:HG13	5	0.35
(1,529)	1:52:A:VAL:HA	1:52:A:VAL:HG12	7	0.35
(1,507)	1:50:A:GLU:HA	1:53:A:ARG:HB2	2	0.35
(1,473)	1:49:A:ILE:HD11	1:49:A:ILE:HD13	7	0.35
(1,473)	1:49:A:ILE:HD11	1:49:A:ILE:HD13	8	0.35
(1,443)	1:48:A:SER:HA	1:49:A:ILE:HG23	10	0.35
(1,422)	1:46:A:VAL:HG22	1:46:A:VAL:HG23	1	0.35
(1,422)	1:46:A:VAL:HG21	1:46:A:VAL:HG23	2	0.35
(1,422)	1:46:A:VAL:HG22	1:46:A:VAL:HG21	4	0.35
(1,422)	1:46:A:VAL:HG22	1:46:A:VAL:HG21	5	0.35
(1,422)	1:46:A:VAL:HG22	1:46:A:VAL:HG21	7	0.35
(1,422)	1:46:A:VAL:HG21	1:46:A:VAL:HG23	10	0.35
(1,417)	1:51:A:ASP:H	1:46:A:VAL:HG22	6	0.35
(1,416)	1:46:A:VAL:HG13	1:148:A:VAL:HG23	5	0.35
(1,411)	1:46:A:VAL:HG11	1:46:A:VAL:HG13	2	0.35
(1,411)	1:46:A:VAL:HG11	1:46:A:VAL:HG13	3	0.35
(1,411)	1:46:A:VAL:HG12	1:46:A:VAL:HG11	6	0.35
(1,411)	1:46:A:VAL:HG11	1:46:A:VAL:HG13	9	0.35
(1,375)	1:44:A:ILE:HG21	1:55:A:GLN:HG3	8	0.35
(1,375)	1:44:A:ILE:HG22	1:55:A:GLN:HG3	9	0.35
(1,375)	1:44:A:ILE:HG23	1:55:A:GLN:HG3	10	0.35
(1,366)	1:45:A:LYS:H	1:44:A:ILE:HD12	5	0.35
(1,366)	1:45:A:LYS:H	1:44:A:ILE:HD13	6	0.35
(1,351)	1:40:A:LEU:HD13	1:42:A:GLU:HG2	5	0.35
(1,300)	1:40:A:LEU:HD12	1:152:A:LEU:HD13	7	0.35
(1,279)	1:38:A:ILE:HG21	1:40:A:LEU:HB2	1	0.35
(1,223)	1:38:A:ILE:HD11	1:30:A:ILE:HG13	7	0.35
(1,211)	1:37:A:TYR:HB2	1:152:A:LEU:HD21	10	0.35
(1,208)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	2	0.35
(1,105)	1:30:A:ILE:HG22	1:30:A:ILE:HG23	3	0.35
(1,105)	1:30:A:ILE:HG22	1:30:A:ILE:HG21	4	0.35
(1,105)	1:30:A:ILE:HG22	1:30:A:ILE:HG23	5	0.35
(1,105)	1:30:A:ILE:HG22	1:30:A:ILE:HG21	6	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,105)	1:30:A:ILE:HG22	1:30:A:ILE:HG21	9	0.35
(1,105)	1:30:A:ILE:HG22	1:30:A:ILE:HG21	10	0.35
(1,83)	1:30:A:ILE:HD13	1:30:A:ILE:HA	2	0.35
(1,83)	1:30:A:ILE:HD11	1:30:A:ILE:HA	4	0.35
(1,83)	1:30:A:ILE:HD13	1:30:A:ILE:HA	6	0.35
(1,83)	1:30:A:ILE:HD12	1:30:A:ILE:HA	8	0.35
(1,9144)	1:156:A:ALA:H	1:155:A:THR:HG21	9	0.34
(1,8819)	1:129:A:ALA:H	1:90:A:LEU:HD11	1	0.34
(1,8819)	1:129:A:ALA:H	1:90:A:LEU:HD11	3	0.34
(1,8743)	1:118:A:GLN:H	1:118:A:GLN:HG2	3	0.34
(1,8610)	1:105:A:PHE:H	1:105:A:PHE:HD1	3	0.34
(1,8439)	1:89:A:ILE:H	1:133:A:ILE:HD13	6	0.34
(1,8271)	1:73:A:ALA:H	1:76:A:LEU:HD11	8	0.34
(1,7935)	1:49:A:ILE:H	1:52:A:VAL:HG13	10	0.34
(1,7928)	1:49:A:ILE:H	1:46:A:VAL:HG12	10	0.34
(1,7517)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	3	0.34
(1,7404)	1:83:A:TRP:HH2	1:79:A:LEU:HD12	6	0.34
(1,7403)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	3	0.34
(1,7403)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	8	0.34
(1,7394)	1:74:A:PHE:HZ	1:30:A:ILE:HD12	3	0.34
(1,7381)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	1	0.34
(1,7381)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	10	0.34
(1,7352)	1:59:A:HIS:HD2	1:38:A:ILE:HD11	3	0.34
(1,7206)	1:157:A:ILE:HG23	1:23:A:ASP:HA	6	0.34
(1,7186)	1:35:A:SER:H	1:157:A:ILE:HD11	4	0.34
(1,7081)	1:78:A:THR:HG22	1:152:A:LEU:HD23	1	0.34
(1,7081)	1:78:A:THR:HG22	1:152:A:LEU:HD22	2	0.34
(1,6839)	1:116:A:THR:HG22	1:137:A:GLU:HG2	10	0.34
(1,6811)	1:136:A:GLY:H	1:135:A:THR:HG22	6	0.34
(1,6717)	1:131:A:LEU:HD21	1:131:A:LEU:HD23	1	0.34
(1,6717)	1:131:A:LEU:HD22	1:131:A:LEU:HD23	2	0.34
(1,6717)	1:131:A:LEU:HD22	1:131:A:LEU:HD23	3	0.34
(1,6717)	1:131:A:LEU:HD22	1:131:A:LEU:HD23	4	0.34
(1,6717)	1:131:A:LEU:HD21	1:131:A:LEU:HD23	5	0.34
(1,6717)	1:131:A:LEU:HD21	1:131:A:LEU:HD23	6	0.34
(1,6717)	1:131:A:LEU:HD22	1:131:A:LEU:HD23	7	0.34
(1,6717)	1:131:A:LEU:HD21	1:131:A:LEU:HD23	8	0.34
(1,6717)	1:131:A:LEU:HD21	1:131:A:LEU:HD23	9	0.34
(1,6717)	1:131:A:LEU:HD21	1:131:A:LEU:HD23	10	0.34
(1,6658)	1:129:A:ALA:HB2	1:130:A:PHE:HD1	6	0.34
(1,6633)	1:129:A:ALA:HA	1:130:A:PHE:HD1	6	0.34
(1,6620)	1:127:A:THR:HG22	1:127:A:THR:HG23	1	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6536)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	1	0.34
(1,6536)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	10	0.34
(1,6162)	1:91:A:LEU:HD12	1:138:A:TRP:HB3	1	0.34
(1,6162)	1:91:A:LEU:HD12	1:138:A:TRP:HB3	5	0.34
(1,6161)	1:91:A:LEU:HD22	1:138:A:TRP:HB2	2	0.34
(1,6161)	1:91:A:LEU:HD22	1:138:A:TRP:HB2	10	0.34
(1,6147)	1:91:A:LEU:HD11	1:66:A:ILE:HB	3	0.34
(1,6098)	1:90:A:LEU:HD11	1:90:A:LEU:HD13	5	0.34
(1,6050)	1:89:A:ILE:HD13	1:130:A:PHE:HA	1	0.34
(1,6050)	1:89:A:ILE:HD11	1:130:A:PHE:HA	8	0.34
(1,6047)	1:89:A:ILE:HA	1:89:A:ILE:HD11	1	0.34
(1,6047)	1:89:A:ILE:HA	1:89:A:ILE:HD11	2	0.34
(1,5788)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	1	0.34
(1,5740)	1:75:A:ILE:HG21	1:83:A:TRP:HZ3	3	0.34
(1,5740)	1:75:A:ILE:HG23	1:83:A:TRP:HZ3	10	0.34
(1,5739)	1:75:A:ILE:HG23	1:79:A:LEU:H	7	0.34
(1,5723)	1:71:A:GLU:HG3	1:75:A:ILE:HD13	2	0.34
(1,5722)	1:75:A:ILE:HD11	1:37:A:TYR:HB2	8	0.34
(1,5695)	1:73:A:ALA:HB2	1:73:A:ALA:HB3	2	0.34
(1,5695)	1:73:A:ALA:HB2	1:73:A:ALA:HB3	6	0.34
(1,5695)	1:73:A:ALA:HB2	1:73:A:ALA:HB1	7	0.34
(1,5695)	1:73:A:ALA:HB2	1:73:A:ALA:HB1	8	0.34
(1,5695)	1:73:A:ALA:HB1	1:73:A:ALA:HB3	9	0.34
(1,5695)	1:73:A:ALA:HB2	1:73:A:ALA:HB1	10	0.34
(1,5603)	1:69:A:GLU:HA	1:73:A:ALA:HB2	8	0.34
(1,5527)	1:66:A:ILE:HA	1:154:A:LYS:HD2	1	0.34
(1,5487)	1:64:A:ILE:HD13	1:91:A:LEU:HD23	7	0.34
(1,5408)	1:38:A:ILE:HG23	1:61:A:ALA:HB1	3	0.34
(1,5408)	1:38:A:ILE:HG22	1:61:A:ALA:HB1	5	0.34
(1,5386)	1:57:A:THR:HG22	1:61:A:ALA:H	10	0.34
(1,5354)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	10	0.34
(1,5302)	1:52:A:VAL:HB	1:49:A:ILE:HG12	2	0.34
(1,5302)	1:52:A:VAL:HB	1:49:A:ILE:HG12	3	0.34
(1,5302)	1:52:A:VAL:HB	1:49:A:ILE:HG12	5	0.34
(1,5302)	1:52:A:VAL:HB	1:49:A:ILE:HG12	7	0.34
(1,5274)	1:50:A:GLU:HA	1:53:A:ARG:HB2	9	0.34
(1,5257)	1:49:A:ILE:HG23	1:144:A:GLU:HG2	10	0.34
(1,5242)	1:49:A:ILE:HD11	1:128:A:CYS:HB2	7	0.34
(1,5240)	1:49:A:ILE:HD12	1:49:A:ILE:HD11	1	0.34
(1,5240)	1:49:A:ILE:HD12	1:49:A:ILE:HD11	2	0.34
(1,5240)	1:49:A:ILE:HD12	1:49:A:ILE:HD13	6	0.34
(1,5240)	1:49:A:ILE:HD12	1:49:A:ILE:HD11	10	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5178)	1:46:A:VAL:HG12	1:46:A:VAL:HG13	1	0.34
(1,5178)	1:46:A:VAL:HG12	1:46:A:VAL:HG11	7	0.34
(1,5178)	1:46:A:VAL:HG12	1:46:A:VAL:HG13	8	0.34
(1,5164)	1:45:A:LYS:HG3	1:46:A:VAL:HG21	4	0.34
(1,5148)	1:55:A:GLN:HE22	1:44:A:ILE:HG21	5	0.34
(1,5133)	1:45:A:LYS:H	1:44:A:ILE:HD13	2	0.34
(1,5046)	1:38:A:ILE:HG22	1:40:A:LEU:HB2	10	0.34
(1,5028)	1:38:A:ILE:HG23	1:40:A:LEU:HG	6	0.34
(1,5005)	1:40:A:LEU:H	1:38:A:ILE:HD13	7	0.34
(1,4975)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	3	0.34
(1,4850)	1:30:A:ILE:HD13	1:30:A:ILE:HA	7	0.34
(1,4739)	1:75:A:ILE:H	1:32:A:PHE:HE2	6	0.34
(1,4687)	1:157:A:ILE:HD13	1:36:A:CYS:H	2	0.34
(1,4670)	1:134:A:LYS:HA	1:133:A:ILE:HB	7	0.34
(1,4666)	1:131:A:LEU:HD13	1:137:A:GLU:HB2	8	0.34
(1,4666)	1:131:A:LEU:HD11	1:137:A:GLU:HB2	10	0.34
(1,4640)	1:76:A:LEU:HD12	1:131:A:LEU:HA	1	0.34
(1,4640)	1:76:A:LEU:HD11	1:131:A:LEU:HA	2	0.34
(1,4625)	1:66:A:ILE:HD12	1:136:A:GLY:HA2	3	0.34
(1,4625)	1:66:A:ILE:HD11	1:136:A:GLY:HA2	5	0.34
(1,4596)	1:40:A:LEU:HD11	1:59:A:HIS:HB3	4	0.34
(1,4560)	1:75:A:ILE:H	1:32:A:PHE:HE2	6	0.34
(1,4508)	1:157:A:ILE:HD13	1:36:A:CYS:H	2	0.34
(1,4491)	1:134:A:LYS:HA	1:133:A:ILE:HB	7	0.34
(1,4487)	1:131:A:LEU:HD13	1:137:A:GLU:HB2	8	0.34
(1,4487)	1:131:A:LEU:HD11	1:137:A:GLU:HB2	10	0.34
(1,4461)	1:76:A:LEU:HD12	1:131:A:LEU:HA	1	0.34
(1,4461)	1:76:A:LEU:HD11	1:131:A:LEU:HA	2	0.34
(1,4446)	1:66:A:ILE:HD12	1:136:A:GLY:HA2	3	0.34
(1,4446)	1:66:A:ILE:HD11	1:136:A:GLY:HA2	5	0.34
(1,4417)	1:40:A:LEU:HD11	1:59:A:HIS:HB3	4	0.34
(1,4377)	1:156:A:ALA:H	1:155:A:THR:HG21	9	0.34
(1,4052)	1:129:A:ALA:H	1:90:A:LEU:HD11	1	0.34
(1,4052)	1:129:A:ALA:H	1:90:A:LEU:HD11	3	0.34
(1,3976)	1:118:A:GLN:H	1:118:A:GLN:HG2	3	0.34
(1,3843)	1:105:A:PHE:H	1:105:A:PHE:HD1	3	0.34
(1,3672)	1:89:A:ILE:H	1:133:A:ILE:HD13	6	0.34
(1,3504)	1:73:A:ALA:H	1:76:A:LEU:HD11	8	0.34
(1,3168)	1:49:A:ILE:H	1:52:A:VAL:HG13	10	0.34
(1,3161)	1:49:A:ILE:H	1:46:A:VAL:HG12	10	0.34
(1,2750)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	3	0.34
(1,2637)	1:83:A:TRP:HH2	1:79:A:LEU:HD12	6	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2636)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	3	0.34
(1,2636)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	8	0.34
(1,2627)	1:74:A:PHE:HZ	1:30:A:ILE:HD12	3	0.34
(1,2614)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	1	0.34
(1,2614)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	10	0.34
(1,2585)	1:59:A:HIS:HD2	1:38:A:ILE:HD11	3	0.34
(1,2439)	1:157:A:ILE:HG23	1:23:A:ASP:HA	6	0.34
(1,2419)	1:35:A:SER:H	1:157:A:ILE:HD11	4	0.34
(1,2314)	1:78:A:THR:HG22	1:152:A:LEU:HD23	1	0.34
(1,2314)	1:78:A:THR:HG22	1:152:A:LEU:HD22	2	0.34
(1,2072)	1:116:A:THR:HG22	1:137:A:GLU:HG2	10	0.34
(1,2044)	1:136:A:GLY:H	1:135:A:THR:HG22	6	0.34
(1,1950)	1:131:A:LEU:HD21	1:131:A:LEU:HD23	1	0.34
(1,1950)	1:131:A:LEU:HD22	1:131:A:LEU:HD23	2	0.34
(1,1950)	1:131:A:LEU:HD22	1:131:A:LEU:HD23	3	0.34
(1,1950)	1:131:A:LEU:HD22	1:131:A:LEU:HD23	4	0.34
(1,1950)	1:131:A:LEU:HD21	1:131:A:LEU:HD23	5	0.34
(1,1950)	1:131:A:LEU:HD21	1:131:A:LEU:HD23	6	0.34
(1,1950)	1:131:A:LEU:HD22	1:131:A:LEU:HD23	7	0.34
(1,1950)	1:131:A:LEU:HD21	1:131:A:LEU:HD23	8	0.34
(1,1950)	1:131:A:LEU:HD21	1:131:A:LEU:HD23	9	0.34
(1,1950)	1:131:A:LEU:HD21	1:131:A:LEU:HD23	10	0.34
(1,1891)	1:129:A:ALA:HB2	1:130:A:PHE:HD1	6	0.34
(1,1866)	1:129:A:ALA:HA	1:130:A:PHE:HD1	6	0.34
(1,1853)	1:127:A:THR:HG22	1:127:A:THR:HG23	1	0.34
(1,1769)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	1	0.34
(1,1769)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	10	0.34
(1,1395)	1:91:A:LEU:HD12	1:138:A:TRP:HB3	1	0.34
(1,1395)	1:91:A:LEU:HD12	1:138:A:TRP:HB3	5	0.34
(1,1394)	1:91:A:LEU:HD22	1:138:A:TRP:HB2	2	0.34
(1,1394)	1:91:A:LEU:HD22	1:138:A:TRP:HB2	10	0.34
(1,1380)	1:91:A:LEU:HD11	1:66:A:ILE:HB	3	0.34
(1,1331)	1:90:A:LEU:HD11	1:90:A:LEU:HD13	5	0.34
(1,1283)	1:89:A:ILE:HD13	1:130:A:PHE:HA	1	0.34
(1,1283)	1:89:A:ILE:HD11	1:130:A:PHE:HA	8	0.34
(1,1280)	1:89:A:ILE:HA	1:89:A:ILE:HD11	1	0.34
(1,1280)	1:89:A:ILE:HA	1:89:A:ILE:HD11	2	0.34
(1,1021)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	1	0.34
(1,973)	1:75:A:ILE:HG21	1:83:A:TRP:HZ3	3	0.34
(1,973)	1:75:A:ILE:HG23	1:83:A:TRP:HZ3	10	0.34
(1,972)	1:75:A:ILE:HG23	1:79:A:LEU:H	7	0.34
(1,956)	1:71:A:GLU:HG3	1:75:A:ILE:HD13	2	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,955)	1:75:A:ILE:HD11	1:37:A:TYR:HB2	8	0.34
(1,928)	1:73:A:ALA:HB2	1:73:A:ALA:HB3	2	0.34
(1,928)	1:73:A:ALA:HB2	1:73:A:ALA:HB3	6	0.34
(1,928)	1:73:A:ALA:HB2	1:73:A:ALA:HB1	7	0.34
(1,928)	1:73:A:ALA:HB2	1:73:A:ALA:HB1	8	0.34
(1,928)	1:73:A:ALA:HB1	1:73:A:ALA:HB3	9	0.34
(1,928)	1:73:A:ALA:HB2	1:73:A:ALA:HB1	10	0.34
(1,836)	1:69:A:GLU:HA	1:73:A:ALA:HB2	8	0.34
(1,760)	1:66:A:ILE:HA	1:154:A:LYS:HD2	1	0.34
(1,720)	1:64:A:ILE:HD13	1:91:A:LEU:HD23	7	0.34
(1,641)	1:38:A:ILE:HG23	1:61:A:ALA:HB1	3	0.34
(1,641)	1:38:A:ILE:HG22	1:61:A:ALA:HB1	5	0.34
(1,619)	1:57:A:THR:HG22	1:61:A:ALA:H	10	0.34
(1,587)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	10	0.34
(1,535)	1:52:A:VAL:HB	1:49:A:ILE:HG12	2	0.34
(1,535)	1:52:A:VAL:HB	1:49:A:ILE:HG12	3	0.34
(1,535)	1:52:A:VAL:HB	1:49:A:ILE:HG12	5	0.34
(1,535)	1:52:A:VAL:HB	1:49:A:ILE:HG12	7	0.34
(1,507)	1:50:A:GLU:HA	1:53:A:ARG:HB2	9	0.34
(1,490)	1:49:A:ILE:HG23	1:144:A:GLU:HG2	10	0.34
(1,475)	1:49:A:ILE:HD11	1:128:A:CYS:HB2	7	0.34
(1,473)	1:49:A:ILE:HD12	1:49:A:ILE:HD11	1	0.34
(1,473)	1:49:A:ILE:HD12	1:49:A:ILE:HD11	2	0.34
(1,473)	1:49:A:ILE:HD12	1:49:A:ILE:HD13	6	0.34
(1,473)	1:49:A:ILE:HD12	1:49:A:ILE:HD11	10	0.34
(1,411)	1:46:A:VAL:HG12	1:46:A:VAL:HG13	1	0.34
(1,411)	1:46:A:VAL:HG12	1:46:A:VAL:HG11	7	0.34
(1,411)	1:46:A:VAL:HG12	1:46:A:VAL:HG13	8	0.34
(1,397)	1:45:A:LYS:HG3	1:46:A:VAL:HG21	4	0.34
(1,381)	1:55:A:GLN:HE22	1:44:A:ILE:HG21	5	0.34
(1,366)	1:45:A:LYS:H	1:44:A:ILE:HD13	2	0.34
(1,279)	1:38:A:ILE:HG22	1:40:A:LEU:HB2	10	0.34
(1,261)	1:38:A:ILE:HG23	1:40:A:LEU:HG	6	0.34
(1,238)	1:40:A:LEU:H	1:38:A:ILE:HD13	7	0.34
(1,208)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	3	0.34
(1,83)	1:30:A:ILE:HD13	1:30:A:ILE:HA	7	0.34
(1,9159)	1:159:A:TYR:H	1:157:A:ILE:HG23	5	0.33
(1,8843)	1:131:A:LEU:H	1:91:A:LEU:HB3	9	0.33
(1,8843)	1:131:A:LEU:H	1:91:A:LEU:HB3	10	0.33
(1,8770)	1:121:A:ASP:H	1:124:A:LEU:HD11	7	0.33
(1,8743)	1:118:A:GLN:H	1:118:A:GLN:HG2	1	0.33
(1,8743)	1:118:A:GLN:H	1:118:A:GLN:HG2	7	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8743)	1:118:A:GLN:H	1:118:A:GLN:HG2	10	0.33
(1,8389)	1:83:A:TRP:HE1	1:30:A:ILE:HD12	5	0.33
(1,8024)	1:55:A:GLN:HE21	1:44:A:ILE:HG22	9	0.33
(1,7954)	1:51:A:ASP:H	1:49:A:ILE:HG23	7	0.33
(1,7592)	1:131:A:LEU:HD22	1:138:A:TRP:HD1	1	0.33
(1,7592)	1:131:A:LEU:HD23	1:138:A:TRP:HD1	2	0.33
(1,7566)	1:90:A:LEU:HD12	1:130:A:PHE:HD1	8	0.33
(1,7479)	1:104:A:TRP:HE3	1:64:A:ILE:HG22	2	0.33
(1,7479)	1:104:A:TRP:HE3	1:64:A:ILE:HG21	6	0.33
(1,7479)	1:104:A:TRP:HE3	1:64:A:ILE:HG21	7	0.33
(1,7403)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	2	0.33
(1,7381)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	6	0.33
(1,7377)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	1	0.33
(1,7352)	1:59:A:HIS:HD2	1:38:A:ILE:HD13	4	0.33
(1,7352)	1:59:A:HIS:HD2	1:38:A:ILE:HD11	10	0.33
(1,7328)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	7	0.33
(1,7083)	1:152:A:LEU:HD21	1:78:A:THR:HB	8	0.33
(1,6657)	1:129:A:ALA:HB2	1:130:A:PHE:HA	2	0.33
(1,6650)	1:129:A:ALA:HB1	1:104:A:TRP:HH2	3	0.33
(1,6621)	1:128:A:CYS:H	1:127:A:THR:HG23	5	0.33
(1,6620)	1:127:A:THR:HG21	1:127:A:THR:HG22	2	0.33
(1,6620)	1:127:A:THR:HG22	1:127:A:THR:HG23	3	0.33
(1,6620)	1:127:A:THR:HG22	1:127:A:THR:HG23	4	0.33
(1,6620)	1:127:A:THR:HG21	1:127:A:THR:HG23	5	0.33
(1,6620)	1:127:A:THR:HG21	1:127:A:THR:HG23	7	0.33
(1,6620)	1:127:A:THR:HG21	1:127:A:THR:HG23	8	0.33
(1,6620)	1:127:A:THR:HG22	1:127:A:THR:HG23	9	0.33
(1,6620)	1:127:A:THR:HG21	1:127:A:THR:HG22	10	0.33
(1,6536)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	7	0.33
(1,6296)	1:101:A:SER:HB2	1:103:A:LYS:HG2	8	0.33
(1,6288)	1:100:A:ALA:HB3	1:99:A:ASP:HA	8	0.33
(1,6148)	1:91:A:LEU:HD11	1:90:A:LEU:H	8	0.33
(1,6147)	1:91:A:LEU:HD11	1:66:A:ILE:HB	7	0.33
(1,6098)	1:90:A:LEU:HD12	1:90:A:LEU:HD11	2	0.33
(1,6098)	1:90:A:LEU:HD11	1:90:A:LEU:HD13	3	0.33
(1,6098)	1:90:A:LEU:HD12	1:90:A:LEU:HD13	4	0.33
(1,6098)	1:90:A:LEU:HD11	1:90:A:LEU:HD13	7	0.33
(1,6098)	1:90:A:LEU:HD11	1:90:A:LEU:HD13	8	0.33
(1,6098)	1:90:A:LEU:HD12	1:90:A:LEU:HD13	9	0.33
(1,6098)	1:90:A:LEU:HD12	1:90:A:LEU:HD11	10	0.33
(1,6050)	1:89:A:ILE:HD12	1:130:A:PHE:HA	3	0.33
(1,6040)	1:89:A:ILE:HB	1:89:A:ILE:HD11	9	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5860)	1:79:A:LEU:HD11	1:89:A:ILE:H	9	0.33
(1,5828)	1:78:A:THR:HG21	1:37:A:TYR:HD1	4	0.33
(1,5743)	1:75:A:ILE:HG23	1:78:A:THR:HB	10	0.33
(1,5740)	1:75:A:ILE:HG22	1:83:A:TRP:HZ3	7	0.33
(1,5739)	1:75:A:ILE:HG22	1:79:A:LEU:H	3	0.33
(1,5723)	1:71:A:GLU:HG3	1:75:A:ILE:HD12	5	0.33
(1,5723)	1:71:A:GLU:HG3	1:75:A:ILE:HD11	10	0.33
(1,5722)	1:75:A:ILE:HD11	1:37:A:TYR:HB2	9	0.33
(1,5695)	1:73:A:ALA:HB2	1:73:A:ALA:HB3	4	0.33
(1,5695)	1:73:A:ALA:HB2	1:73:A:ALA:HB1	5	0.33
(1,5603)	1:69:A:GLU:HA	1:73:A:ALA:HB3	6	0.33
(1,5582)	1:66:A:ILE:HG21	1:138:A:TRP:HZ3	10	0.33
(1,5565)	1:66:A:ILE:HG23	1:113:A:ASP:HA	2	0.33
(1,5537)	1:66:A:ILE:HA	1:66:A:ILE:HD11	1	0.33
(1,5537)	1:66:A:ILE:HA	1:66:A:ILE:HD11	5	0.33
(1,5527)	1:66:A:ILE:HA	1:154:A:LYS:HD2	7	0.33
(1,5444)	1:63:A:MET:HE2	1:91:A:LEU:HA	9	0.33
(1,5412)	1:61:A:ALA:HB3	1:40:A:LEU:HD21	1	0.33
(1,5407)	1:56:A:CYS:HB2	1:61:A:ALA:HB2	7	0.33
(1,5405)	1:61:A:ALA:HA	1:155:A:THR:HG22	2	0.33
(1,5354)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	8	0.33
(1,5309)	1:51:A:ASP:HB3	1:52:A:VAL:HG13	6	0.33
(1,5309)	1:51:A:ASP:HB3	1:52:A:VAL:HG11	8	0.33
(1,5302)	1:52:A:VAL:HB	1:49:A:ILE:HG12	1	0.33
(1,5302)	1:52:A:VAL:HB	1:49:A:ILE:HG12	4	0.33
(1,5302)	1:52:A:VAL:HB	1:49:A:ILE:HG12	8	0.33
(1,5302)	1:52:A:VAL:HB	1:49:A:ILE:HG12	9	0.33
(1,5274)	1:50:A:GLU:HA	1:53:A:ARG:HB2	1	0.33
(1,5274)	1:50:A:GLU:HA	1:53:A:ARG:HB2	5	0.33
(1,5274)	1:50:A:GLU:HA	1:53:A:ARG:HB2	10	0.33
(1,5240)	1:49:A:ILE:HD12	1:49:A:ILE:HD13	3	0.33
(1,5240)	1:49:A:ILE:HD12	1:49:A:ILE:HD13	4	0.33
(1,5240)	1:49:A:ILE:HD12	1:49:A:ILE:HD13	5	0.33
(1,5240)	1:49:A:ILE:HD12	1:49:A:ILE:HD11	9	0.33
(1,5178)	1:46:A:VAL:HG12	1:46:A:VAL:HG11	4	0.33
(1,5178)	1:46:A:VAL:HG12	1:46:A:VAL:HG11	5	0.33
(1,5178)	1:46:A:VAL:HG12	1:46:A:VAL:HG11	10	0.33
(1,5133)	1:45:A:LYS:H	1:44:A:ILE:HD11	1	0.33
(1,5133)	1:45:A:LYS:H	1:44:A:ILE:HD12	7	0.33
(1,5133)	1:45:A:LYS:H	1:44:A:ILE:HD11	10	0.33
(1,5118)	1:40:A:LEU:HD11	1:42:A:GLU:HG2	1	0.33
(1,5067)	1:40:A:LEU:HD11	1:152:A:LEU:HD11	9	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5046)	1:38:A:ILE:HG22	1:40:A:LEU:HB2	2	0.33
(1,5046)	1:38:A:ILE:HG21	1:40:A:LEU:HB2	7	0.33
(1,5045)	1:40:A:LEU:HB2	1:38:A:ILE:HD12	4	0.33
(1,5028)	1:38:A:ILE:HG21	1:40:A:LEU:HG	9	0.33
(1,4997)	1:38:A:ILE:H	1:38:A:ILE:HD11	10	0.33
(1,4978)	1:37:A:TYR:HB2	1:152:A:LEU:HD23	1	0.33
(1,4978)	1:37:A:TYR:HB2	1:152:A:LEU:HD22	7	0.33
(1,4850)	1:30:A:ILE:HD11	1:30:A:ILE:HA	1	0.33
(1,4850)	1:30:A:ILE:HD13	1:30:A:ILE:HA	5	0.33
(1,4757)	1:131:A:LEU:H	1:131:A:LEU:HG	4	0.33
(1,4757)	1:131:A:LEU:H	1:131:A:LEU:HG	7	0.33
(1,4692)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	2	0.33
(1,4666)	1:131:A:LEU:HD12	1:137:A:GLU:HB2	9	0.33
(1,4636)	1:75:A:ILE:HG22	1:64:A:ILE:HG13	10	0.33
(1,4596)	1:40:A:LEU:HD13	1:59:A:HIS:HB3	1	0.33
(1,4578)	1:131:A:LEU:H	1:131:A:LEU:HG	4	0.33
(1,4578)	1:131:A:LEU:H	1:131:A:LEU:HG	7	0.33
(1,4513)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	2	0.33
(1,4487)	1:131:A:LEU:HD12	1:137:A:GLU:HB2	9	0.33
(1,4457)	1:75:A:ILE:HG22	1:64:A:ILE:HG13	10	0.33
(1,4417)	1:40:A:LEU:HD13	1:59:A:HIS:HB3	1	0.33
(1,4392)	1:159:A:TYR:H	1:157:A:ILE:HG23	5	0.33
(1,4076)	1:131:A:LEU:H	1:91:A:LEU:HB3	9	0.33
(1,4076)	1:131:A:LEU:H	1:91:A:LEU:HB3	10	0.33
(1,4003)	1:121:A:ASP:H	1:124:A:LEU:HD11	7	0.33
(1,3976)	1:118:A:GLN:H	1:118:A:GLN:HG2	1	0.33
(1,3976)	1:118:A:GLN:H	1:118:A:GLN:HG2	7	0.33
(1,3976)	1:118:A:GLN:H	1:118:A:GLN:HG2	10	0.33
(1,3622)	1:83:A:TRP:HE1	1:30:A:ILE:HD12	5	0.33
(1,3257)	1:55:A:GLN:HE21	1:44:A:ILE:HG22	9	0.33
(1,3187)	1:51:A:ASP:H	1:49:A:ILE:HG23	7	0.33
(1,2825)	1:131:A:LEU:HD22	1:138:A:TRP:HD1	1	0.33
(1,2825)	1:131:A:LEU:HD23	1:138:A:TRP:HD1	2	0.33
(1,2799)	1:90:A:LEU:HD12	1:130:A:PHE:HD1	8	0.33
(1,2712)	1:104:A:TRP:HE3	1:64:A:ILE:HG22	2	0.33
(1,2712)	1:104:A:TRP:HE3	1:64:A:ILE:HG21	6	0.33
(1,2712)	1:104:A:TRP:HE3	1:64:A:ILE:HG21	7	0.33
(1,2636)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	2	0.33
(1,2614)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	6	0.33
(1,2610)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	1	0.33
(1,2585)	1:59:A:HIS:HD2	1:38:A:ILE:HD13	4	0.33
(1,2585)	1:59:A:HIS:HD2	1:38:A:ILE:HD11	10	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2561)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	7	0.33
(1,2316)	1:152:A:LEU:HD21	1:78:A:THR:HB	8	0.33
(1,1890)	1:129:A:ALA:HB2	1:130:A:PHE:HA	2	0.33
(1,1883)	1:129:A:ALA:HB1	1:104:A:TRP:HH2	3	0.33
(1,1854)	1:128:A:CYS:H	1:127:A:THR:HG23	5	0.33
(1,1853)	1:127:A:THR:HG21	1:127:A:THR:HG22	2	0.33
(1,1853)	1:127:A:THR:HG22	1:127:A:THR:HG23	3	0.33
(1,1853)	1:127:A:THR:HG22	1:127:A:THR:HG23	4	0.33
(1,1853)	1:127:A:THR:HG21	1:127:A:THR:HG23	5	0.33
(1,1853)	1:127:A:THR:HG21	1:127:A:THR:HG23	7	0.33
(1,1853)	1:127:A:THR:HG21	1:127:A:THR:HG23	8	0.33
(1,1853)	1:127:A:THR:HG22	1:127:A:THR:HG23	9	0.33
(1,1853)	1:127:A:THR:HG21	1:127:A:THR:HG22	10	0.33
(1,1769)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	7	0.33
(1,1529)	1:101:A:SER:HB2	1:103:A:LYS:HG2	8	0.33
(1,1521)	1:100:A:ALA:HB3	1:99:A:ASP:HA	8	0.33
(1,1381)	1:91:A:LEU:HD11	1:90:A:LEU:H	8	0.33
(1,1380)	1:91:A:LEU:HD11	1:66:A:ILE:HB	7	0.33
(1,1331)	1:90:A:LEU:HD12	1:90:A:LEU:HD11	2	0.33
(1,1331)	1:90:A:LEU:HD11	1:90:A:LEU:HD13	3	0.33
(1,1331)	1:90:A:LEU:HD12	1:90:A:LEU:HD13	4	0.33
(1,1331)	1:90:A:LEU:HD11	1:90:A:LEU:HD13	7	0.33
(1,1331)	1:90:A:LEU:HD11	1:90:A:LEU:HD13	8	0.33
(1,1331)	1:90:A:LEU:HD12	1:90:A:LEU:HD13	9	0.33
(1,1331)	1:90:A:LEU:HD12	1:90:A:LEU:HD11	10	0.33
(1,1283)	1:89:A:ILE:HD12	1:130:A:PHE:HA	3	0.33
(1,1273)	1:89:A:ILE:HB	1:89:A:ILE:HD11	9	0.33
(1,1093)	1:79:A:LEU:HD11	1:89:A:ILE:H	9	0.33
(1,1061)	1:78:A:THR:HG21	1:37:A:TYR:HD1	4	0.33
(1,976)	1:75:A:ILE:HG23	1:78:A:THR:HB	10	0.33
(1,973)	1:75:A:ILE:HG22	1:83:A:TRP:HZ3	7	0.33
(1,972)	1:75:A:ILE:HG22	1:79:A:LEU:H	3	0.33
(1,956)	1:71:A:GLU:HG3	1:75:A:ILE:HD12	5	0.33
(1,956)	1:71:A:GLU:HG3	1:75:A:ILE:HD11	10	0.33
(1,955)	1:75:A:ILE:HD11	1:37:A:TYR:HB2	9	0.33
(1,928)	1:73:A:ALA:HB2	1:73:A:ALA:HB3	4	0.33
(1,928)	1:73:A:ALA:HB2	1:73:A:ALA:HB1	5	0.33
(1,836)	1:69:A:GLU:HA	1:73:A:ALA:HB3	6	0.33
(1,815)	1:66:A:ILE:HG21	1:138:A:TRP:HZ3	10	0.33
(1,798)	1:66:A:ILE:HG23	1:113:A:ASP:HA	2	0.33
(1,770)	1:66:A:ILE:HA	1:66:A:ILE:HD11	1	0.33
(1,770)	1:66:A:ILE:HA	1:66:A:ILE:HD11	5	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,760)	1:66:A:ILE:HA	1:154:A:LYS:HD2	7	0.33
(1,677)	1:63:A:MET:HE2	1:91:A:LEU:HA	9	0.33
(1,645)	1:61:A:ALA:HB3	1:40:A:LEU:HD21	1	0.33
(1,640)	1:56:A:CYS:HB2	1:61:A:ALA:HB2	7	0.33
(1,638)	1:61:A:ALA:HA	1:155:A:THR:HG22	2	0.33
(1,587)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	8	0.33
(1,542)	1:51:A:ASP:HB3	1:52:A:VAL:HG13	6	0.33
(1,542)	1:51:A:ASP:HB3	1:52:A:VAL:HG11	8	0.33
(1,535)	1:52:A:VAL:HB	1:49:A:ILE:HG12	1	0.33
(1,535)	1:52:A:VAL:HB	1:49:A:ILE:HG12	4	0.33
(1,535)	1:52:A:VAL:HB	1:49:A:ILE:HG12	8	0.33
(1,535)	1:52:A:VAL:HB	1:49:A:ILE:HG12	9	0.33
(1,507)	1:50:A:GLU:HA	1:53:A:ARG:HB2	1	0.33
(1,507)	1:50:A:GLU:HA	1:53:A:ARG:HB2	5	0.33
(1,507)	1:50:A:GLU:HA	1:53:A:ARG:HB2	10	0.33
(1,473)	1:49:A:ILE:HD12	1:49:A:ILE:HD13	3	0.33
(1,473)	1:49:A:ILE:HD12	1:49:A:ILE:HD13	4	0.33
(1,473)	1:49:A:ILE:HD12	1:49:A:ILE:HD13	5	0.33
(1,473)	1:49:A:ILE:HD12	1:49:A:ILE:HD11	9	0.33
(1,411)	1:46:A:VAL:HG12	1:46:A:VAL:HG11	4	0.33
(1,411)	1:46:A:VAL:HG12	1:46:A:VAL:HG11	5	0.33
(1,411)	1:46:A:VAL:HG12	1:46:A:VAL:HG11	10	0.33
(1,366)	1:45:A:LYS:H	1:44:A:ILE:HD11	1	0.33
(1,366)	1:45:A:LYS:H	1:44:A:ILE:HD12	7	0.33
(1,366)	1:45:A:LYS:H	1:44:A:ILE:HD11	10	0.33
(1,351)	1:40:A:LEU:HD11	1:42:A:GLU:HG2	1	0.33
(1,300)	1:40:A:LEU:HD11	1:152:A:LEU:HD11	9	0.33
(1,279)	1:38:A:ILE:HG22	1:40:A:LEU:HB2	2	0.33
(1,279)	1:38:A:ILE:HG21	1:40:A:LEU:HB2	7	0.33
(1,278)	1:40:A:LEU:HB2	1:38:A:ILE:HD12	4	0.33
(1,261)	1:38:A:ILE:HG21	1:40:A:LEU:HG	9	0.33
(1,230)	1:38:A:ILE:H	1:38:A:ILE:HD11	10	0.33
(1,211)	1:37:A:TYR:HB2	1:152:A:LEU:HD23	1	0.33
(1,211)	1:37:A:TYR:HB2	1:152:A:LEU:HD22	7	0.33
(1,83)	1:30:A:ILE:HD11	1:30:A:ILE:HA	1	0.33
(1,83)	1:30:A:ILE:HD13	1:30:A:ILE:HA	5	0.33
(1,8843)	1:131:A:LEU:H	1:91:A:LEU:HB3	7	0.32
(1,8819)	1:129:A:ALA:H	1:90:A:LEU:HD13	4	0.32
(1,8743)	1:118:A:GLN:H	1:118:A:GLN:HG2	2	0.32
(1,8743)	1:118:A:GLN:H	1:118:A:GLN:HG2	5	0.32
(1,8666)	1:110:A:MET:H	1:103:A:LYS:HG2	3	0.32
(1,8610)	1:105:A:PHE:H	1:105:A:PHE:HD1	7	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8336)	1:78:A:THR:H	1:79:A:LEU:HD22	6	0.32
(1,8271)	1:73:A:ALA:H	1:76:A:LEU:HD12	7	0.32
(1,8034)	1:55:A:GLN:HE22	1:40:A:LEU:HD21	8	0.32
(1,8024)	1:55:A:GLN:HE21	1:44:A:ILE:HG22	8	0.32
(1,7935)	1:49:A:ILE:H	1:52:A:VAL:HG12	4	0.32
(1,7566)	1:90:A:LEU:HD13	1:130:A:PHE:HD1	4	0.32
(1,7479)	1:104:A:TRP:HE3	1:64:A:ILE:HG23	10	0.32
(1,7384)	1:74:A:PHE:HE1	1:75:A:ILE:HA	1	0.32
(1,7381)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	3	0.32
(1,7381)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	5	0.32
(1,7381)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	9	0.32
(1,7377)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	2	0.32
(1,7377)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	3	0.32
(1,7377)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	4	0.32
(1,7377)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	5	0.32
(1,7377)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	6	0.32
(1,7377)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	8	0.32
(1,7377)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	9	0.32
(1,7377)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	10	0.32
(1,7075)	1:152:A:LEU:HD11	1:153:A:CYS:HB2	9	0.32
(1,6708)	1:131:A:LEU:HD21	1:88:A:ASP:HA	10	0.32
(1,6683)	1:131:A:LEU:HD13	1:91:A:LEU:HD22	6	0.32
(1,6657)	1:129:A:ALA:HB2	1:130:A:PHE:HA	7	0.32
(1,6650)	1:129:A:ALA:HB1	1:104:A:TRP:HH2	7	0.32
(1,6620)	1:127:A:THR:HG21	1:127:A:THR:HG22	6	0.32
(1,6594)	1:97:A:THR:HG22	1:125:A:VAL:HB	2	0.32
(1,6288)	1:100:A:ALA:HB3	1:99:A:ASP:HA	9	0.32
(1,6201)	1:93:A:MET:HA	1:91:A:LEU:HB2	3	0.32
(1,6201)	1:93:A:MET:HA	1:91:A:LEU:HB2	9	0.32
(1,6162)	1:91:A:LEU:HD11	1:138:A:TRP:HB3	3	0.32
(1,6148)	1:91:A:LEU:HD13	1:90:A:LEU:H	5	0.32
(1,6098)	1:90:A:LEU:HD11	1:90:A:LEU:HD13	1	0.32
(1,6098)	1:90:A:LEU:HD11	1:90:A:LEU:HD13	6	0.32
(1,6040)	1:89:A:ILE:HB	1:89:A:ILE:HD11	5	0.32
(1,6040)	1:89:A:ILE:HB	1:89:A:ILE:HD12	8	0.32
(1,6040)	1:89:A:ILE:HB	1:89:A:ILE:HD11	10	0.32
(1,5860)	1:79:A:LEU:HD12	1:89:A:ILE:H	4	0.32
(1,5846)	1:83:A:TRP:H	1:79:A:LEU:HD12	6	0.32
(1,5582)	1:66:A:ILE:HG21	1:138:A:TRP:HZ3	4	0.32
(1,5505)	1:64:A:ILE:HG22	1:65:A:SER:H	4	0.32
(1,5475)	1:64:A:ILE:HD11	1:71:A:GLU:HB3	4	0.32
(1,5444)	1:63:A:MET:HE2	1:91:A:LEU:HA	4	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5407)	1:56:A:CYS:HB2	1:61:A:ALA:HB1	2	0.32
(1,5407)	1:56:A:CYS:HB2	1:61:A:ALA:HB3	4	0.32
(1,5407)	1:56:A:CYS:HB2	1:61:A:ALA:HB3	5	0.32
(1,5407)	1:56:A:CYS:HB2	1:61:A:ALA:HB2	8	0.32
(1,5386)	1:57:A:THR:HG21	1:61:A:ALA:H	1	0.32
(1,5309)	1:51:A:ASP:HB3	1:52:A:VAL:HG13	9	0.32
(1,5302)	1:52:A:VAL:HB	1:49:A:ILE:HG12	6	0.32
(1,5274)	1:50:A:GLU:HA	1:53:A:ARG:HB2	3	0.32
(1,5225)	1:49:A:ILE:HA	1:49:A:ILE:HG23	6	0.32
(1,5210)	1:48:A:SER:HA	1:49:A:ILE:HG22	5	0.32
(1,5210)	1:48:A:SER:HA	1:49:A:ILE:HG22	9	0.32
(1,5195)	1:46:A:VAL:HG21	1:146:A:SER:HB3	9	0.32
(1,5133)	1:45:A:LYS:H	1:44:A:ILE:HD12	9	0.32
(1,5067)	1:40:A:LEU:HD12	1:152:A:LEU:HD13	4	0.32
(1,5046)	1:38:A:ILE:HG23	1:40:A:LEU:HB2	8	0.32
(1,4998)	1:38:A:ILE:HA	1:38:A:ILE:HD11	4	0.32
(1,4998)	1:38:A:ILE:HA	1:38:A:ILE:HD11	7	0.32
(1,4998)	1:38:A:ILE:HA	1:38:A:ILE:HD11	9	0.32
(1,4997)	1:38:A:ILE:H	1:38:A:ILE:HD13	7	0.32
(1,4923)	1:35:A:SER:HA	1:156:A:ALA:HB2	5	0.32
(1,4722)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	4	0.32
(1,4722)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	7	0.32
(1,4666)	1:131:A:LEU:HD11	1:137:A:GLU:HB2	6	0.32
(1,4626)	1:66:A:ILE:HG23	1:113:A:ASP:H	7	0.32
(1,4626)	1:66:A:ILE:HG22	1:113:A:ASP:H	8	0.32
(1,4543)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	4	0.32
(1,4543)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	7	0.32
(1,4487)	1:131:A:LEU:HD11	1:137:A:GLU:HB2	6	0.32
(1,4447)	1:66:A:ILE:HG23	1:113:A:ASP:H	7	0.32
(1,4447)	1:66:A:ILE:HG22	1:113:A:ASP:H	8	0.32
(1,4076)	1:131:A:LEU:H	1:91:A:LEU:HB3	7	0.32
(1,4052)	1:129:A:ALA:H	1:90:A:LEU:HD13	4	0.32
(1,3976)	1:118:A:GLN:H	1:118:A:GLN:HG2	2	0.32
(1,3976)	1:118:A:GLN:H	1:118:A:GLN:HG2	5	0.32
(1,3899)	1:110:A:MET:H	1:103:A:LYS:HG2	3	0.32
(1,3843)	1:105:A:PHE:H	1:105:A:PHE:HD1	7	0.32
(1,3569)	1:78:A:THR:H	1:79:A:LEU:HD22	6	0.32
(1,3504)	1:73:A:ALA:H	1:76:A:LEU:HD12	7	0.32
(1,3267)	1:55:A:GLN:HE22	1:40:A:LEU:HD21	8	0.32
(1,3257)	1:55:A:GLN:HE21	1:44:A:ILE:HG22	8	0.32
(1,3168)	1:49:A:ILE:H	1:52:A:VAL:HG12	4	0.32
(1,2799)	1:90:A:LEU:HD13	1:130:A:PHE:HD1	4	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2712)	1:104:A:TRP:HE3	1:64:A:ILE:HG23	10	0.32
(1,2617)	1:74:A:PHE:HE1	1:75:A:ILE:HA	1	0.32
(1,2614)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	3	0.32
(1,2614)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	5	0.32
(1,2614)	1:74:A:PHE:HE1	1:74:A:PHE:HB2	9	0.32
(1,2610)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	2	0.32
(1,2610)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	3	0.32
(1,2610)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	4	0.32
(1,2610)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	5	0.32
(1,2610)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	6	0.32
(1,2610)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	8	0.32
(1,2610)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	9	0.32
(1,2610)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	10	0.32
(1,2308)	1:152:A:LEU:HD11	1:153:A:CYS:HB2	9	0.32
(1,1941)	1:131:A:LEU:HD21	1:88:A:ASP:HA	10	0.32
(1,1916)	1:131:A:LEU:HD13	1:91:A:LEU:HD22	6	0.32
(1,1890)	1:129:A:ALA:HB2	1:130:A:PHE:HA	7	0.32
(1,1883)	1:129:A:ALA:HB1	1:104:A:TRP:HH2	7	0.32
(1,1853)	1:127:A:THR:HG21	1:127:A:THR:HG22	6	0.32
(1,1827)	1:97:A:THR:HG22	1:125:A:VAL:HB	2	0.32
(1,1521)	1:100:A:ALA:HB3	1:99:A:ASP:HA	9	0.32
(1,1434)	1:93:A:MET:HA	1:91:A:LEU:HB2	3	0.32
(1,1434)	1:93:A:MET:HA	1:91:A:LEU:HB2	9	0.32
(1,1395)	1:91:A:LEU:HD11	1:138:A:TRP:HB3	3	0.32
(1,1381)	1:91:A:LEU:HD13	1:90:A:LEU:H	5	0.32
(1,1331)	1:90:A:LEU:HD11	1:90:A:LEU:HD13	1	0.32
(1,1331)	1:90:A:LEU:HD11	1:90:A:LEU:HD13	6	0.32
(1,1273)	1:89:A:ILE:HB	1:89:A:ILE:HD11	5	0.32
(1,1273)	1:89:A:ILE:HB	1:89:A:ILE:HD12	8	0.32
(1,1273)	1:89:A:ILE:HB	1:89:A:ILE:HD11	10	0.32
(1,1093)	1:79:A:LEU:HD12	1:89:A:ILE:H	4	0.32
(1,1079)	1:83:A:TRP:H	1:79:A:LEU:HD12	6	0.32
(1,815)	1:66:A:ILE:HG21	1:138:A:TRP:HZ3	4	0.32
(1,738)	1:64:A:ILE:HG22	1:65:A:SER:H	4	0.32
(1,708)	1:64:A:ILE:HD11	1:71:A:GLU:HB3	4	0.32
(1,677)	1:63:A:MET:HE2	1:91:A:LEU:HA	4	0.32
(1,640)	1:56:A:CYS:HB2	1:61:A:ALA:HB1	2	0.32
(1,640)	1:56:A:CYS:HB2	1:61:A:ALA:HB3	4	0.32
(1,640)	1:56:A:CYS:HB2	1:61:A:ALA:HB3	5	0.32
(1,640)	1:56:A:CYS:HB2	1:61:A:ALA:HB2	8	0.32
(1,619)	1:57:A:THR:HG21	1:61:A:ALA:H	1	0.32
(1,542)	1:51:A:ASP:HB3	1:52:A:VAL:HG13	9	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,535)	1:52:A:VAL:HB	1:49:A:ILE:HG12	6	0.32
(1,507)	1:50:A:GLU:HA	1:53:A:ARG:HB2	3	0.32
(1,458)	1:49:A:ILE:HA	1:49:A:ILE:HG23	6	0.32
(1,443)	1:48:A:SER:HA	1:49:A:ILE:HG22	5	0.32
(1,443)	1:48:A:SER:HA	1:49:A:ILE:HG22	9	0.32
(1,428)	1:46:A:VAL:HG21	1:146:A:SER:HB3	9	0.32
(1,366)	1:45:A:LYS:H	1:44:A:ILE:HD12	9	0.32
(1,300)	1:40:A:LEU:HD12	1:152:A:LEU:HD13	4	0.32
(1,279)	1:38:A:ILE:HG23	1:40:A:LEU:HB2	8	0.32
(1,231)	1:38:A:ILE:HA	1:38:A:ILE:HD11	4	0.32
(1,231)	1:38:A:ILE:HA	1:38:A:ILE:HD11	7	0.32
(1,231)	1:38:A:ILE:HA	1:38:A:ILE:HD11	9	0.32
(1,230)	1:38:A:ILE:H	1:38:A:ILE:HD13	7	0.32
(1,156)	1:35:A:SER:HA	1:156:A:ALA:HB2	5	0.32
(1,8821)	1:129:A:ALA:H	1:91:A:LEU:HD21	9	0.31
(1,8666)	1:110:A:MET:H	1:103:A:LYS:HG2	1	0.31
(1,8666)	1:110:A:MET:H	1:103:A:LYS:HG2	7	0.31
(1,8390)	1:83:A:TRP:HE1	1:79:A:LEU:HD11	8	0.31
(1,8291)	1:75:A:ILE:H	1:32:A:PHE:HD2	6	0.31
(1,8271)	1:73:A:ALA:H	1:76:A:LEU:HD11	5	0.31
(1,8034)	1:55:A:GLN:HE22	1:40:A:LEU:HD22	2	0.31
(1,8034)	1:55:A:GLN:HE22	1:40:A:LEU:HD21	6	0.31
(1,7954)	1:51:A:ASP:H	1:49:A:ILE:HG22	1	0.31
(1,7935)	1:49:A:ILE:H	1:52:A:VAL:HG11	2	0.31
(1,7935)	1:49:A:ILE:H	1:52:A:VAL:HG12	3	0.31
(1,7935)	1:49:A:ILE:H	1:52:A:VAL:HG13	6	0.31
(1,7935)	1:49:A:ILE:H	1:52:A:VAL:HG12	7	0.31
(1,7935)	1:49:A:ILE:H	1:52:A:VAL:HG13	9	0.31
(1,7517)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	2	0.31
(1,7479)	1:104:A:TRP:HE3	1:64:A:ILE:HG21	1	0.31
(1,7479)	1:104:A:TRP:HE3	1:64:A:ILE:HG23	3	0.31
(1,7479)	1:104:A:TRP:HE3	1:64:A:ILE:HG23	9	0.31
(1,7403)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	1	0.31
(1,7377)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	7	0.31
(1,7352)	1:59:A:HIS:HD2	1:38:A:ILE:HD11	5	0.31
(1,7352)	1:59:A:HIS:HD2	1:38:A:ILE:HD12	6	0.31
(1,7213)	1:157:A:ILE:HG23	1:158:A:PRO:HD3	9	0.31
(1,7206)	1:157:A:ILE:HG21	1:23:A:ASP:HA	1	0.31
(1,7206)	1:157:A:ILE:HG23	1:23:A:ASP:HA	3	0.31
(1,7157)	1:61:A:ALA:HB2	1:155:A:THR:HG22	2	0.31
(1,7157)	1:61:A:ALA:HB3	1:155:A:THR:HG22	8	0.31
(1,7088)	1:152:A:LEU:HD21	1:152:A:LEU:HD23	1	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7088)	1:152:A:LEU:HD22	1:152:A:LEU:HD23	2	0.31
(1,7088)	1:152:A:LEU:HD21	1:152:A:LEU:HD23	4	0.31
(1,7088)	1:152:A:LEU:HD22	1:152:A:LEU:HD21	7	0.31
(1,7088)	1:152:A:LEU:HD21	1:152:A:LEU:HD23	9	0.31
(1,7083)	1:152:A:LEU:HD23	1:78:A:THR:HB	1	0.31
(1,7083)	1:152:A:LEU:HD23	1:78:A:THR:HB	4	0.31
(1,7075)	1:152:A:LEU:HD11	1:153:A:CYS:HB2	5	0.31
(1,6811)	1:136:A:GLY:H	1:135:A:THR:HG22	9	0.31
(1,6644)	1:129:A:ALA:HB2	1:91:A:LEU:HA	6	0.31
(1,6644)	1:129:A:ALA:HB2	1:91:A:LEU:HA	10	0.31
(1,6621)	1:128:A:CYS:H	1:127:A:THR:HG22	1	0.31
(1,6621)	1:128:A:CYS:H	1:127:A:THR:HG23	4	0.31
(1,6567)	1:124:A:LEU:HD13	1:95:A:TYR:HD1	6	0.31
(1,6287)	1:99:A:ASP:H	1:100:A:ALA:HB1	1	0.31
(1,6284)	1:100:A:ALA:HB2	1:97:A:THR:HB	3	0.31
(1,6050)	1:89:A:ILE:HD13	1:130:A:PHE:HA	5	0.31
(1,6040)	1:89:A:ILE:HB	1:89:A:ILE:HD11	2	0.31
(1,6040)	1:89:A:ILE:HB	1:89:A:ILE:HD13	3	0.31
(1,6040)	1:89:A:ILE:HB	1:89:A:ILE:HD13	4	0.31
(1,5940)	1:82:A:GLN:HG2	1:78:A:THR:HG22	7	0.31
(1,5846)	1:83:A:TRP:H	1:79:A:LEU:HD13	4	0.31
(1,5846)	1:83:A:TRP:H	1:79:A:LEU:HD11	8	0.31
(1,5800)	1:76:A:LEU:HG	1:131:A:LEU:HD21	3	0.31
(1,5800)	1:76:A:LEU:HG	1:131:A:LEU:HD23	9	0.31
(1,5771)	1:76:A:LEU:HD12	1:89:A:ILE:H	8	0.31
(1,5744)	1:75:A:ILE:HG22	1:65:A:SER:H	4	0.31
(1,5740)	1:75:A:ILE:HG22	1:83:A:TRP:HZ3	9	0.31
(1,5739)	1:75:A:ILE:HG23	1:79:A:LEU:H	9	0.31
(1,5537)	1:66:A:ILE:HA	1:66:A:ILE:HD11	2	0.31
(1,5444)	1:63:A:MET:HE3	1:91:A:LEU:HA	2	0.31
(1,5407)	1:56:A:CYS:HB2	1:61:A:ALA:HB3	1	0.31
(1,5407)	1:56:A:CYS:HB2	1:61:A:ALA:HB1	10	0.31
(1,5354)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	4	0.31
(1,5309)	1:51:A:ASP:HB3	1:52:A:VAL:HG12	4	0.31
(1,5309)	1:51:A:ASP:HB3	1:52:A:VAL:HG13	10	0.31
(1,5302)	1:52:A:VAL:HB	1:49:A:ILE:HG12	10	0.31
(1,5210)	1:48:A:SER:HA	1:49:A:ILE:HG23	1	0.31
(1,5210)	1:48:A:SER:HA	1:49:A:ILE:HG22	2	0.31
(1,5210)	1:48:A:SER:HA	1:49:A:ILE:HG21	7	0.31
(1,5210)	1:48:A:SER:HA	1:49:A:ILE:HG22	8	0.31
(1,5195)	1:46:A:VAL:HG23	1:146:A:SER:HB3	2	0.31
(1,5195)	1:46:A:VAL:HG21	1:146:A:SER:HB3	6	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5195)	1:46:A:VAL:HG23	1:146:A:SER:HB3	10	0.31
(1,5183)	1:46:A:VAL:HG11	1:148:A:VAL:HG21	1	0.31
(1,5164)	1:45:A:LYS:HG3	1:46:A:VAL:HG21	7	0.31
(1,5148)	1:55:A:GLN:HE22	1:44:A:ILE:HG22	4	0.31
(1,5133)	1:45:A:LYS:H	1:44:A:ILE:HD13	8	0.31
(1,5045)	1:40:A:LEU:HB2	1:38:A:ILE:HD13	8	0.31
(1,4997)	1:38:A:ILE:H	1:38:A:ILE:HD11	2	0.31
(1,4997)	1:38:A:ILE:H	1:38:A:ILE:HD11	8	0.31
(1,4992)	1:28:A:THR:HA	1:38:A:ILE:HD11	9	0.31
(1,4978)	1:37:A:TYR:HB2	1:152:A:LEU:HD22	2	0.31
(1,4978)	1:37:A:TYR:HB2	1:152:A:LEU:HD21	3	0.31
(1,4850)	1:30:A:ILE:HD11	1:30:A:ILE:HA	3	0.31
(1,4850)	1:30:A:ILE:HD11	1:30:A:ILE:HA	9	0.31
(1,4757)	1:131:A:LEU:H	1:131:A:LEU:HG	3	0.31
(1,4757)	1:131:A:LEU:H	1:131:A:LEU:HG	6	0.31
(1,4757)	1:131:A:LEU:H	1:131:A:LEU:HG	9	0.31
(1,4734)	1:71:A:GLU:H	1:73:A:ALA:HB2	4	0.31
(1,4722)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	2	0.31
(1,4712)	1:31:A:GLN:HE22	1:34:A:ASP:HA	10	0.31
(1,4687)	1:157:A:ILE:HD11	1:36:A:CYS:H	5	0.31
(1,4670)	1:134:A:LYS:HA	1:76:A:LEU:HG	1	0.31
(1,4625)	1:66:A:ILE:HD11	1:136:A:GLY:HA2	1	0.31
(1,4600)	1:49:A:ILE:HB	1:90:A:LEU:HD11	6	0.31
(1,4578)	1:131:A:LEU:H	1:131:A:LEU:HG	3	0.31
(1,4578)	1:131:A:LEU:H	1:131:A:LEU:HG	6	0.31
(1,4578)	1:131:A:LEU:H	1:131:A:LEU:HG	9	0.31
(1,4555)	1:71:A:GLU:H	1:73:A:ALA:HB2	4	0.31
(1,4543)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	2	0.31
(1,4533)	1:31:A:GLN:HE22	1:34:A:ASP:HA	10	0.31
(1,4508)	1:157:A:ILE:HD11	1:36:A:CYS:H	5	0.31
(1,4491)	1:134:A:LYS:HA	1:76:A:LEU:HG	1	0.31
(1,4446)	1:66:A:ILE:HD11	1:136:A:GLY:HA2	1	0.31
(1,4421)	1:49:A:ILE:HB	1:90:A:LEU:HD11	6	0.31
(1,4054)	1:129:A:ALA:H	1:91:A:LEU:HD21	9	0.31
(1,3899)	1:110:A:MET:H	1:103:A:LYS:HG2	1	0.31
(1,3899)	1:110:A:MET:H	1:103:A:LYS:HG2	7	0.31
(1,3623)	1:83:A:TRP:HE1	1:79:A:LEU:HD11	8	0.31
(1,3524)	1:75:A:ILE:H	1:32:A:PHE:HD2	6	0.31
(1,3504)	1:73:A:ALA:H	1:76:A:LEU:HD11	5	0.31
(1,3267)	1:55:A:GLN:HE22	1:40:A:LEU:HD22	2	0.31
(1,3267)	1:55:A:GLN:HE22	1:40:A:LEU:HD21	6	0.31
(1,3187)	1:51:A:ASP:H	1:49:A:ILE:HG22	1	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3168)	1:49:A:ILE:H	1:52:A:VAL:HG11	2	0.31
(1,3168)	1:49:A:ILE:H	1:52:A:VAL:HG12	3	0.31
(1,3168)	1:49:A:ILE:H	1:52:A:VAL:HG13	6	0.31
(1,3168)	1:49:A:ILE:H	1:52:A:VAL:HG12	7	0.31
(1,3168)	1:49:A:ILE:H	1:52:A:VAL:HG13	9	0.31
(1,2750)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	2	0.31
(1,2712)	1:104:A:TRP:HE3	1:64:A:ILE:HG21	1	0.31
(1,2712)	1:104:A:TRP:HE3	1:64:A:ILE:HG23	3	0.31
(1,2712)	1:104:A:TRP:HE3	1:64:A:ILE:HG23	9	0.31
(1,2636)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	1	0.31
(1,2610)	1:74:A:PHE:HB3	1:74:A:PHE:HD1	7	0.31
(1,2585)	1:59:A:HIS:HD2	1:38:A:ILE:HD11	5	0.31
(1,2585)	1:59:A:HIS:HD2	1:38:A:ILE:HD12	6	0.31
(1,2446)	1:157:A:ILE:HG23	1:158:A:PRO:HD3	9	0.31
(1,2439)	1:157:A:ILE:HG21	1:23:A:ASP:HA	1	0.31
(1,2439)	1:157:A:ILE:HG23	1:23:A:ASP:HA	3	0.31
(1,2390)	1:61:A:ALA:HB2	1:155:A:THR:HG22	2	0.31
(1,2390)	1:61:A:ALA:HB3	1:155:A:THR:HG22	8	0.31
(1,2321)	1:152:A:LEU:HD21	1:152:A:LEU:HD23	1	0.31
(1,2321)	1:152:A:LEU:HD22	1:152:A:LEU:HD23	2	0.31
(1,2321)	1:152:A:LEU:HD21	1:152:A:LEU:HD23	4	0.31
(1,2321)	1:152:A:LEU:HD22	1:152:A:LEU:HD21	7	0.31
(1,2321)	1:152:A:LEU:HD21	1:152:A:LEU:HD23	9	0.31
(1,2316)	1:152:A:LEU:HD23	1:78:A:THR:HB	1	0.31
(1,2316)	1:152:A:LEU:HD23	1:78:A:THR:HB	4	0.31
(1,2308)	1:152:A:LEU:HD11	1:153:A:CYS:HB2	5	0.31
(1,2044)	1:136:A:GLY:H	1:135:A:THR:HG22	9	0.31
(1,1877)	1:129:A:ALA:HB2	1:91:A:LEU:HA	6	0.31
(1,1877)	1:129:A:ALA:HB2	1:91:A:LEU:HA	10	0.31
(1,1854)	1:128:A:CYS:H	1:127:A:THR:HG22	1	0.31
(1,1854)	1:128:A:CYS:H	1:127:A:THR:HG23	4	0.31
(1,1800)	1:124:A:LEU:HD13	1:95:A:TYR:HD1	6	0.31
(1,1520)	1:99:A:ASP:H	1:100:A:ALA:HB1	1	0.31
(1,1517)	1:100:A:ALA:HB2	1:97:A:THR:HB	3	0.31
(1,1283)	1:89:A:ILE:HD13	1:130:A:PHE:HA	5	0.31
(1,1273)	1:89:A:ILE:HB	1:89:A:ILE:HD11	2	0.31
(1,1273)	1:89:A:ILE:HB	1:89:A:ILE:HD13	3	0.31
(1,1273)	1:89:A:ILE:HB	1:89:A:ILE:HD13	4	0.31
(1,1173)	1:82:A:GLN:HG2	1:78:A:THR:HG22	7	0.31
(1,1079)	1:83:A:TRP:H	1:79:A:LEU:HD13	4	0.31
(1,1079)	1:83:A:TRP:H	1:79:A:LEU:HD11	8	0.31
(1,1033)	1:76:A:LEU:HG	1:131:A:LEU:HD21	3	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1033)	1:76:A:LEU:HG	1:131:A:LEU:HD23	9	0.31
(1,1004)	1:76:A:LEU:HD12	1:89:A:ILE:H	8	0.31
(1,977)	1:75:A:ILE:HG22	1:65:A:SER:H	4	0.31
(1,973)	1:75:A:ILE:HG22	1:83:A:TRP:HZ3	9	0.31
(1,972)	1:75:A:ILE:HG23	1:79:A:LEU:H	9	0.31
(1,770)	1:66:A:ILE:HA	1:66:A:ILE:HD11	2	0.31
(1,677)	1:63:A:MET:HE3	1:91:A:LEU:HA	2	0.31
(1,640)	1:56:A:CYS:HB2	1:61:A:ALA:HB3	1	0.31
(1,640)	1:56:A:CYS:HB2	1:61:A:ALA:HB1	10	0.31
(1,587)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	4	0.31
(1,542)	1:51:A:ASP:HB3	1:52:A:VAL:HG12	4	0.31
(1,542)	1:51:A:ASP:HB3	1:52:A:VAL:HG13	10	0.31
(1,535)	1:52:A:VAL:HB	1:49:A:ILE:HG12	10	0.31
(1,443)	1:48:A:SER:HA	1:49:A:ILE:HG23	1	0.31
(1,443)	1:48:A:SER:HA	1:49:A:ILE:HG22	2	0.31
(1,443)	1:48:A:SER:HA	1:49:A:ILE:HG21	7	0.31
(1,443)	1:48:A:SER:HA	1:49:A:ILE:HG22	8	0.31
(1,428)	1:46:A:VAL:HG23	1:146:A:SER:HB3	2	0.31
(1,428)	1:46:A:VAL:HG21	1:146:A:SER:HB3	6	0.31
(1,428)	1:46:A:VAL:HG23	1:146:A:SER:HB3	10	0.31
(1,416)	1:46:A:VAL:HG11	1:148:A:VAL:HG21	1	0.31
(1,397)	1:45:A:LYS:HG3	1:46:A:VAL:HG21	7	0.31
(1,381)	1:55:A:GLN:HE22	1:44:A:ILE:HG22	4	0.31
(1,366)	1:45:A:LYS:H	1:44:A:ILE:HD13	8	0.31
(1,278)	1:40:A:LEU:HB2	1:38:A:ILE:HD13	8	0.31
(1,230)	1:38:A:ILE:H	1:38:A:ILE:HD11	2	0.31
(1,230)	1:38:A:ILE:H	1:38:A:ILE:HD11	8	0.31
(1,225)	1:28:A:THR:HA	1:38:A:ILE:HD11	9	0.31
(1,211)	1:37:A:TYR:HB2	1:152:A:LEU:HD22	2	0.31
(1,211)	1:37:A:TYR:HB2	1:152:A:LEU:HD21	3	0.31
(1,83)	1:30:A:ILE:HD11	1:30:A:ILE:HA	3	0.31
(1,83)	1:30:A:ILE:HD11	1:30:A:ILE:HA	9	0.31
(1,8961)	1:139:A:LYS:H	1:116:A:THR:HG22	3	0.3
(1,8873)	1:133:A:ILE:H	1:133:A:ILE:HG22	6	0.3
(1,8770)	1:121:A:ASP:H	1:124:A:LEU:HD11	5	0.3
(1,8666)	1:110:A:MET:H	1:103:A:LYS:HG2	6	0.3
(1,8610)	1:105:A:PHE:H	1:105:A:PHE:HD1	1	0.3
(1,8610)	1:105:A:PHE:H	1:105:A:PHE:HD1	5	0.3
(1,8610)	1:105:A:PHE:H	1:105:A:PHE:HD1	8	0.3
(1,8610)	1:105:A:PHE:H	1:105:A:PHE:HD1	10	0.3
(1,8464)	1:92:A:GLY:H	1:91:A:LEU:HB2	6	0.3
(1,8464)	1:92:A:GLY:H	1:91:A:LEU:HB2	10	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8273)	1:73:A:ALA:H	1:66:A:ILE:HG22	4	0.3
(1,8222)	1:71:A:GLU:H	1:66:A:ILE:HD12	6	0.3
(1,8127)	1:62:A:ASP:H	1:155:A:THR:HG21	2	0.3
(1,8034)	1:55:A:GLN:HE22	1:40:A:LEU:HD22	3	0.3
(1,7954)	1:51:A:ASP:H	1:49:A:ILE:HG21	2	0.3
(1,7954)	1:51:A:ASP:H	1:49:A:ILE:HG22	4	0.3
(1,7954)	1:51:A:ASP:H	1:49:A:ILE:HG23	6	0.3
(1,7935)	1:49:A:ILE:H	1:52:A:VAL:HG13	1	0.3
(1,7935)	1:49:A:ILE:H	1:52:A:VAL:HG11	8	0.3
(1,7566)	1:90:A:LEU:HD11	1:130:A:PHE:HD1	1	0.3
(1,7540)	1:129:A:ALA:HB2	1:115:A:TRP:HH2	8	0.3
(1,7515)	1:105:A:PHE:HE1	1:49:A:ILE:HG23	6	0.3
(1,7479)	1:104:A:TRP:HE3	1:64:A:ILE:HG22	4	0.3
(1,7458)	1:102:A:PHE:HD1	1:124:A:LEU:HD21	10	0.3
(1,7213)	1:157:A:ILE:HG22	1:158:A:PRO:HD3	6	0.3
(1,7075)	1:152:A:LEU:HD12	1:153:A:CYS:HB2	8	0.3
(1,7075)	1:152:A:LEU:HD12	1:153:A:CYS:HB2	10	0.3
(1,7009)	1:148:A:VAL:HG22	1:147:A:SER:HB2	9	0.3
(1,6983)	1:145:A:VAL:HG21	1:147:A:SER:HA	10	0.3
(1,6806)	1:135:A:THR:HG21	1:134:A:LYS:HE2	3	0.3
(1,6712)	1:131:A:LEU:H	1:131:A:LEU:HD23	5	0.3
(1,6708)	1:131:A:LEU:HD21	1:88:A:ASP:HA	1	0.3
(1,6650)	1:129:A:ALA:HB3	1:104:A:TRP:HH2	8	0.3
(1,6596)	1:125:A:VAL:HG11	1:97:A:THR:HG22	8	0.3
(1,6594)	1:97:A:THR:HG21	1:125:A:VAL:HB	9	0.3
(1,6288)	1:100:A:ALA:HB2	1:99:A:ASP:HA	2	0.3
(1,6288)	1:100:A:ALA:HB2	1:99:A:ASP:HA	7	0.3
(1,6161)	1:91:A:LEU:HD21	1:138:A:TRP:HB2	6	0.3
(1,6050)	1:89:A:ILE:HD11	1:130:A:PHE:HA	4	0.3
(1,6050)	1:89:A:ILE:HD13	1:130:A:PHE:HA	9	0.3
(1,6045)	1:89:A:ILE:HD13	1:88:A:ASP:HB3	3	0.3
(1,6040)	1:89:A:ILE:HB	1:89:A:ILE:HD11	1	0.3
(1,6040)	1:89:A:ILE:HB	1:89:A:ILE:HD13	6	0.3
(1,5940)	1:82:A:GLN:HG2	1:78:A:THR:HG23	6	0.3
(1,5800)	1:76:A:LEU:HG	1:131:A:LEU:HD22	6	0.3
(1,5788)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	8	0.3
(1,5771)	1:76:A:LEU:HD13	1:89:A:ILE:H	4	0.3
(1,5744)	1:75:A:ILE:HG23	1:65:A:SER:H	2	0.3
(1,5740)	1:75:A:ILE:HG21	1:83:A:TRP:HZ3	8	0.3
(1,5723)	1:71:A:GLU:HG3	1:75:A:ILE:HD11	1	0.3
(1,5603)	1:69:A:GLU:HA	1:73:A:ALA:HB2	5	0.3
(1,5570)	1:66:A:ILE:HG22	1:66:A:ILE:HG21	1	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5570)	1:66:A:ILE:HG22	1:66:A:ILE:HG23	6	0.3
(1,5549)	1:66:A:ILE:HD12	1:92:A:GLY:H	4	0.3
(1,5542)	1:66:A:ILE:HD12	1:71:A:GLU:HG3	9	0.3
(1,5537)	1:66:A:ILE:HA	1:66:A:ILE:HD11	10	0.3
(1,5444)	1:63:A:MET:HE3	1:91:A:LEU:HA	3	0.3
(1,5444)	1:63:A:MET:HE2	1:91:A:LEU:HA	5	0.3
(1,5386)	1:57:A:THR:HG21	1:61:A:ALA:H	2	0.3
(1,5309)	1:51:A:ASP:HB3	1:52:A:VAL:HG11	2	0.3
(1,5309)	1:51:A:ASP:HB3	1:52:A:VAL:HG12	3	0.3
(1,5274)	1:50:A:GLU:HA	1:53:A:ARG:HB2	8	0.3
(1,5254)	1:49:A:ILE:HG21	1:105:A:PHE:HD2	10	0.3
(1,5210)	1:48:A:SER:HA	1:49:A:ILE:HG23	3	0.3
(1,5210)	1:48:A:SER:HA	1:49:A:ILE:HG23	4	0.3
(1,5195)	1:46:A:VAL:HG21	1:146:A:SER:HB3	3	0.3
(1,5195)	1:46:A:VAL:HG21	1:146:A:SER:HB3	5	0.3
(1,5195)	1:46:A:VAL:HG22	1:146:A:SER:HB3	8	0.3
(1,5046)	1:38:A:ILE:HG22	1:40:A:LEU:HB2	3	0.3
(1,4998)	1:38:A:ILE:HA	1:38:A:ILE:HD12	8	0.3
(1,4997)	1:38:A:ILE:H	1:38:A:ILE:HD12	1	0.3
(1,4850)	1:30:A:ILE:HD11	1:30:A:ILE:HA	10	0.3
(1,4757)	1:131:A:LEU:H	1:131:A:LEU:HG	2	0.3
(1,4757)	1:131:A:LEU:H	1:131:A:LEU:HG	10	0.3
(1,4727)	1:48:A:SER:H	1:45:A:LYS:HG3	4	0.3
(1,4722)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	8	0.3
(1,4699)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	3	0.3
(1,4687)	1:157:A:ILE:HD12	1:36:A:CYS:H	4	0.3
(1,4670)	1:134:A:LYS:HA	1:133:A:ILE:HB	6	0.3
(1,4670)	1:134:A:LYS:HA	1:76:A:LEU:HG	9	0.3
(1,4666)	1:131:A:LEU:HD12	1:137:A:GLU:HB2	3	0.3
(1,4666)	1:131:A:LEU:HD12	1:137:A:GLU:HB2	4	0.3
(1,4643)	1:78:A:THR:HB	1:81:A:LYS:HB2	7	0.3
(1,4636)	1:75:A:ILE:HG21	1:64:A:ILE:HG13	5	0.3
(1,4578)	1:131:A:LEU:H	1:131:A:LEU:HG	2	0.3
(1,4578)	1:131:A:LEU:H	1:131:A:LEU:HG	10	0.3
(1,4548)	1:48:A:SER:H	1:45:A:LYS:HG3	4	0.3
(1,4543)	1:41:A:GLN:HE21	1:80:A:LYS:HG3	8	0.3
(1,4520)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	3	0.3
(1,4508)	1:157:A:ILE:HD12	1:36:A:CYS:H	4	0.3
(1,4491)	1:134:A:LYS:HA	1:133:A:ILE:HB	6	0.3
(1,4491)	1:134:A:LYS:HA	1:76:A:LEU:HG	9	0.3
(1,4487)	1:131:A:LEU:HD12	1:137:A:GLU:HB2	3	0.3
(1,4487)	1:131:A:LEU:HD12	1:137:A:GLU:HB2	4	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4464)	1:78:A:THR:HB	1:81:A:LYS:HB2	7	0.3
(1,4457)	1:75:A:ILE:HG21	1:64:A:ILE:HG13	5	0.3
(1,4194)	1:139:A:LYS:H	1:116:A:THR:HG22	3	0.3
(1,4106)	1:133:A:ILE:H	1:133:A:ILE:HG22	6	0.3
(1,4003)	1:121:A:ASP:H	1:124:A:LEU:HD11	5	0.3
(1,3899)	1:110:A:MET:H	1:103:A:LYS:HG2	6	0.3
(1,3843)	1:105:A:PHE:H	1:105:A:PHE:HD1	1	0.3
(1,3843)	1:105:A:PHE:H	1:105:A:PHE:HD1	5	0.3
(1,3843)	1:105:A:PHE:H	1:105:A:PHE:HD1	8	0.3
(1,3843)	1:105:A:PHE:H	1:105:A:PHE:HD1	10	0.3
(1,3697)	1:92:A:GLY:H	1:91:A:LEU:HB2	6	0.3
(1,3697)	1:92:A:GLY:H	1:91:A:LEU:HB2	10	0.3
(1,3506)	1:73:A:ALA:H	1:66:A:ILE:HG22	4	0.3
(1,3455)	1:71:A:GLU:H	1:66:A:ILE:HD12	6	0.3
(1,3360)	1:62:A:ASP:H	1:155:A:THR:HG21	2	0.3
(1,3267)	1:55:A:GLN:HE22	1:40:A:LEU:HD22	3	0.3
(1,3187)	1:51:A:ASP:H	1:49:A:ILE:HG21	2	0.3
(1,3187)	1:51:A:ASP:H	1:49:A:ILE:HG22	4	0.3
(1,3187)	1:51:A:ASP:H	1:49:A:ILE:HG23	6	0.3
(1,3168)	1:49:A:ILE:H	1:52:A:VAL:HG13	1	0.3
(1,3168)	1:49:A:ILE:H	1:52:A:VAL:HG11	8	0.3
(1,2799)	1:90:A:LEU:HD11	1:130:A:PHE:HD1	1	0.3
(1,2773)	1:129:A:ALA:HB2	1:115:A:TRP:HH2	8	0.3
(1,2748)	1:105:A:PHE:HE1	1:49:A:ILE:HG23	6	0.3
(1,2712)	1:104:A:TRP:HE3	1:64:A:ILE:HG22	4	0.3
(1,2691)	1:102:A:PHE:HD1	1:124:A:LEU:HD21	10	0.3
(1,2446)	1:157:A:ILE:HG22	1:158:A:PRO:HD3	6	0.3
(1,2308)	1:152:A:LEU:HD12	1:153:A:CYS:HB2	8	0.3
(1,2308)	1:152:A:LEU:HD12	1:153:A:CYS:HB2	10	0.3
(1,2242)	1:148:A:VAL:HG22	1:147:A:SER:HB2	9	0.3
(1,2216)	1:145:A:VAL:HG21	1:147:A:SER:HA	10	0.3
(1,2039)	1:135:A:THR:HG21	1:134:A:LYS:HE2	3	0.3
(1,1945)	1:131:A:LEU:H	1:131:A:LEU:HD23	5	0.3
(1,1941)	1:131:A:LEU:HD21	1:88:A:ASP:HA	1	0.3
(1,1883)	1:129:A:ALA:HB3	1:104:A:TRP:HH2	8	0.3
(1,1829)	1:125:A:VAL:HG11	1:97:A:THR:HG22	8	0.3
(1,1827)	1:97:A:THR:HG21	1:125:A:VAL:HB	9	0.3
(1,1521)	1:100:A:ALA:HB2	1:99:A:ASP:HA	2	0.3
(1,1521)	1:100:A:ALA:HB2	1:99:A:ASP:HA	7	0.3
(1,1394)	1:91:A:LEU:HD21	1:138:A:TRP:HB2	6	0.3
(1,1283)	1:89:A:ILE:HD11	1:130:A:PHE:HA	4	0.3
(1,1283)	1:89:A:ILE:HD13	1:130:A:PHE:HA	9	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1278)	1:89:A:ILE:HD13	1:88:A:ASP:HB3	3	0.3
(1,1273)	1:89:A:ILE:HB	1:89:A:ILE:HD11	1	0.3
(1,1273)	1:89:A:ILE:HB	1:89:A:ILE:HD13	6	0.3
(1,1173)	1:82:A:GLN:HG2	1:78:A:THR:HG23	6	0.3
(1,1033)	1:76:A:LEU:HG	1:131:A:LEU:HD22	6	0.3
(1,1021)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	8	0.3
(1,1004)	1:76:A:LEU:HD13	1:89:A:ILE:H	4	0.3
(1,977)	1:75:A:ILE:HG23	1:65:A:SER:H	2	0.3
(1,973)	1:75:A:ILE:HG21	1:83:A:TRP:HZ3	8	0.3
(1,956)	1:71:A:GLU:HG3	1:75:A:ILE:HD11	1	0.3
(1,836)	1:69:A:GLU:HA	1:73:A:ALA:HB2	5	0.3
(1,803)	1:66:A:ILE:HG22	1:66:A:ILE:HG21	1	0.3
(1,803)	1:66:A:ILE:HG22	1:66:A:ILE:HG23	6	0.3
(1,782)	1:66:A:ILE:HD12	1:92:A:GLY:H	4	0.3
(1,775)	1:66:A:ILE:HD12	1:71:A:GLU:HG3	9	0.3
(1,770)	1:66:A:ILE:HA	1:66:A:ILE:HD11	10	0.3
(1,677)	1:63:A:MET:HE3	1:91:A:LEU:HA	3	0.3
(1,677)	1:63:A:MET:HE2	1:91:A:LEU:HA	5	0.3
(1,619)	1:57:A:THR:HG21	1:61:A:ALA:H	2	0.3
(1,542)	1:51:A:ASP:HB3	1:52:A:VAL:HG11	2	0.3
(1,542)	1:51:A:ASP:HB3	1:52:A:VAL:HG12	3	0.3
(1,507)	1:50:A:GLU:HA	1:53:A:ARG:HB2	8	0.3
(1,487)	1:49:A:ILE:HG21	1:105:A:PHE:HD2	10	0.3
(1,443)	1:48:A:SER:HA	1:49:A:ILE:HG23	3	0.3
(1,443)	1:48:A:SER:HA	1:49:A:ILE:HG23	4	0.3
(1,428)	1:46:A:VAL:HG21	1:146:A:SER:HB3	3	0.3
(1,428)	1:46:A:VAL:HG21	1:146:A:SER:HB3	5	0.3
(1,428)	1:46:A:VAL:HG22	1:146:A:SER:HB3	8	0.3
(1,279)	1:38:A:ILE:HG22	1:40:A:LEU:HB2	3	0.3
(1,231)	1:38:A:ILE:HA	1:38:A:ILE:HD12	8	0.3
(1,230)	1:38:A:ILE:H	1:38:A:ILE:HD12	1	0.3
(1,83)	1:30:A:ILE:HD11	1:30:A:ILE:HA	10	0.3
(1,9144)	1:156:A:ALA:H	1:155:A:THR:HG21	3	0.29
(1,8819)	1:129:A:ALA:H	1:90:A:LEU:HD11	7	0.29
(1,8666)	1:110:A:MET:H	1:103:A:LYS:HG2	10	0.29
(1,8610)	1:105:A:PHE:H	1:105:A:PHE:HD1	6	0.29
(1,8390)	1:83:A:TRP:HE1	1:79:A:LEU:HD12	5	0.29
(1,8390)	1:83:A:TRP:HE1	1:79:A:LEU:HD12	7	0.29
(1,8314)	1:77:A:ASP:H	1:78:A:THR:HG23	4	0.29
(1,8271)	1:73:A:ALA:H	1:76:A:LEU:HD11	3	0.29
(1,8271)	1:73:A:ALA:H	1:76:A:LEU:HD12	4	0.29
(1,8271)	1:73:A:ALA:H	1:76:A:LEU:HD13	6	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7935)	1:49:A:ILE:H	1:52:A:VAL:HG13	5	0.29
(1,7894)	1:44:A:ILE:H	1:43:A:ALA:HB2	3	0.29
(1,7566)	1:90:A:LEU:HD11	1:130:A:PHE:HD1	3	0.29
(1,7515)	1:105:A:PHE:HE1	1:49:A:ILE:HG22	10	0.29
(1,7403)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	7	0.29
(1,7403)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	10	0.29
(1,7097)	1:152:A:LEU:HD11	1:153:A:CYS:HA	6	0.29
(1,7088)	1:152:A:LEU:HD22	1:152:A:LEU:HD21	3	0.29
(1,7088)	1:152:A:LEU:HD22	1:152:A:LEU:HD21	5	0.29
(1,7088)	1:152:A:LEU:HD22	1:152:A:LEU:HD21	6	0.29
(1,7088)	1:152:A:LEU:HD22	1:152:A:LEU:HD21	10	0.29
(1,6983)	1:145:A:VAL:HG23	1:147:A:SER:HA	7	0.29
(1,6983)	1:145:A:VAL:HG23	1:147:A:SER:HA	9	0.29
(1,6811)	1:136:A:GLY:H	1:135:A:THR:HG23	8	0.29
(1,6776)	1:133:A:ILE:HG23	1:80:A:LYS:HG2	2	0.29
(1,6776)	1:133:A:ILE:HG23	1:80:A:LYS:HG2	8	0.29
(1,6750)	1:133:A:ILE:HD12	1:80:A:LYS:HE2	2	0.29
(1,6750)	1:133:A:ILE:HD12	1:80:A:LYS:HE2	4	0.29
(1,6698)	1:131:A:LEU:HD22	1:73:A:ALA:HA	8	0.29
(1,6694)	1:131:A:LEU:HD12	1:138:A:TRP:H	1	0.29
(1,6683)	1:131:A:LEU:HD13	1:91:A:LEU:HD23	7	0.29
(1,6683)	1:131:A:LEU:HD13	1:91:A:LEU:HD23	10	0.29
(1,6656)	1:130:A:PHE:H	1:129:A:ALA:HB1	7	0.29
(1,6650)	1:129:A:ALA:HB1	1:104:A:TRP:HH2	2	0.29
(1,6594)	1:97:A:THR:HG23	1:125:A:VAL:HB	1	0.29
(1,6536)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	4	0.29
(1,6287)	1:99:A:ASP:H	1:100:A:ALA:HB3	2	0.29
(1,6287)	1:99:A:ASP:H	1:100:A:ALA:HB2	5	0.29
(1,6287)	1:99:A:ASP:H	1:100:A:ALA:HB3	7	0.29
(1,6263)	1:96:A:ASP:H	1:97:A:THR:HG23	5	0.29
(1,6201)	1:93:A:MET:HA	1:91:A:LEU:HB2	10	0.29
(1,6050)	1:89:A:ILE:HD13	1:130:A:PHE:HA	10	0.29
(1,5940)	1:82:A:GLN:HG2	1:78:A:THR:HG21	9	0.29
(1,5846)	1:83:A:TRP:H	1:79:A:LEU:HD12	9	0.29
(1,5826)	1:78:A:THR:HG23	1:82:A:GLN:HA	1	0.29
(1,5800)	1:76:A:LEU:HG	1:131:A:LEU:HD23	1	0.29
(1,5800)	1:76:A:LEU:HG	1:131:A:LEU:HD21	2	0.29
(1,5800)	1:76:A:LEU:HG	1:131:A:LEU:HD22	5	0.29
(1,5800)	1:76:A:LEU:HG	1:131:A:LEU:HD21	7	0.29
(1,5788)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	7	0.29
(1,5739)	1:75:A:ILE:HG23	1:79:A:LEU:H	5	0.29
(1,5722)	1:75:A:ILE:HD13	1:37:A:TYR:HB2	4	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5582)	1:66:A:ILE:HG21	1:138:A:TRP:HZ3	5	0.29
(1,5570)	1:66:A:ILE:HG22	1:66:A:ILE:HG21	2	0.29
(1,5570)	1:66:A:ILE:HG22	1:66:A:ILE:HG23	3	0.29
(1,5570)	1:66:A:ILE:HG22	1:66:A:ILE:HG23	4	0.29
(1,5570)	1:66:A:ILE:HG21	1:66:A:ILE:HG23	5	0.29
(1,5570)	1:66:A:ILE:HG22	1:66:A:ILE:HG23	7	0.29
(1,5570)	1:66:A:ILE:HG22	1:66:A:ILE:HG21	8	0.29
(1,5570)	1:66:A:ILE:HG21	1:66:A:ILE:HG23	9	0.29
(1,5570)	1:66:A:ILE:HG22	1:66:A:ILE:HG23	10	0.29
(1,5558)	1:66:A:ILE:HG13	1:66:A:ILE:HG23	8	0.29
(1,5527)	1:66:A:ILE:HA	1:154:A:LYS:HD2	2	0.29
(1,5527)	1:66:A:ILE:HA	1:154:A:LYS:HD2	8	0.29
(1,5517)	1:65:A:SER:HA	1:66:A:ILE:HD12	2	0.29
(1,5444)	1:63:A:MET:HE3	1:91:A:LEU:HA	6	0.29
(1,5354)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	3	0.29
(1,5314)	1:52:A:VAL:HG13	1:53:A:ARG:HG3	8	0.29
(1,5274)	1:50:A:GLU:HA	1:53:A:ARG:HB2	6	0.29
(1,5195)	1:46:A:VAL:HG21	1:146:A:SER:HB3	4	0.29
(1,5046)	1:38:A:ILE:HG22	1:40:A:LEU:HB2	4	0.29
(1,5046)	1:38:A:ILE:HG23	1:40:A:LEU:HB2	6	0.29
(1,5043)	1:40:A:LEU:HA	1:40:A:LEU:HD11	1	0.29
(1,5043)	1:40:A:LEU:HA	1:40:A:LEU:HD12	3	0.29
(1,5043)	1:40:A:LEU:HA	1:40:A:LEU:HD11	6	0.29
(1,5043)	1:40:A:LEU:HA	1:40:A:LEU:HD11	9	0.29
(1,4998)	1:38:A:ILE:HA	1:38:A:ILE:HD12	5	0.29
(1,4998)	1:38:A:ILE:HA	1:38:A:ILE:HD12	10	0.29
(1,4997)	1:38:A:ILE:H	1:38:A:ILE:HD13	4	0.29
(1,4997)	1:38:A:ILE:H	1:38:A:ILE:HD11	5	0.29
(1,4990)	1:38:A:ILE:HD12	1:30:A:ILE:HG13	5	0.29
(1,4978)	1:37:A:TYR:HB2	1:152:A:LEU:HD21	8	0.29
(1,4975)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	7	0.29
(1,4925)	1:35:A:SER:HA	1:157:A:ILE:HD13	7	0.29
(1,4761)	1:138:A:TRP:H	1:115:A:TRP:HB2	8	0.29
(1,4726)	1:45:A:LYS:H	1:47:A:GLU:HG2	5	0.29
(1,4705)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	6	0.29
(1,4692)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	5	0.29
(1,4692)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	10	0.29
(1,4636)	1:75:A:ILE:HG21	1:64:A:ILE:HG13	1	0.29
(1,4582)	1:138:A:TRP:H	1:115:A:TRP:HB2	8	0.29
(1,4547)	1:45:A:LYS:H	1:47:A:GLU:HG2	5	0.29
(1,4526)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	6	0.29
(1,4513)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	5	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4513)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	10	0.29
(1,4457)	1:75:A:ILE:HG21	1:64:A:ILE:HG13	1	0.29
(1,4377)	1:156:A:ALA:H	1:155:A:THR:HG21	3	0.29
(1,4052)	1:129:A:ALA:H	1:90:A:LEU:HD11	7	0.29
(1,3899)	1:110:A:MET:H	1:103:A:LYS:HG2	10	0.29
(1,3843)	1:105:A:PHE:H	1:105:A:PHE:HD1	6	0.29
(1,3623)	1:83:A:TRP:HE1	1:79:A:LEU:HD12	5	0.29
(1,3623)	1:83:A:TRP:HE1	1:79:A:LEU:HD12	7	0.29
(1,3547)	1:77:A:ASP:H	1:78:A:THR:HG23	4	0.29
(1,3504)	1:73:A:ALA:H	1:76:A:LEU:HD11	3	0.29
(1,3504)	1:73:A:ALA:H	1:76:A:LEU:HD12	4	0.29
(1,3504)	1:73:A:ALA:H	1:76:A:LEU:HD13	6	0.29
(1,3168)	1:49:A:ILE:H	1:52:A:VAL:HG13	5	0.29
(1,3127)	1:44:A:ILE:H	1:43:A:ALA:HB2	3	0.29
(1,2799)	1:90:A:LEU:HD11	1:130:A:PHE:HD1	3	0.29
(1,2748)	1:105:A:PHE:HE1	1:49:A:ILE:HG22	10	0.29
(1,2636)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	7	0.29
(1,2636)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	10	0.29
(1,2330)	1:152:A:LEU:HD11	1:153:A:CYS:HA	6	0.29
(1,2321)	1:152:A:LEU:HD22	1:152:A:LEU:HD21	3	0.29
(1,2321)	1:152:A:LEU:HD22	1:152:A:LEU:HD21	5	0.29
(1,2321)	1:152:A:LEU:HD22	1:152:A:LEU:HD21	6	0.29
(1,2321)	1:152:A:LEU:HD22	1:152:A:LEU:HD21	10	0.29
(1,2216)	1:145:A:VAL:HG23	1:147:A:SER:HA	7	0.29
(1,2216)	1:145:A:VAL:HG23	1:147:A:SER:HA	9	0.29
(1,2044)	1:136:A:GLY:H	1:135:A:THR:HG23	8	0.29
(1,2009)	1:133:A:ILE:HG23	1:80:A:LYS:HG2	2	0.29
(1,2009)	1:133:A:ILE:HG23	1:80:A:LYS:HG2	8	0.29
(1,1983)	1:133:A:ILE:HD12	1:80:A:LYS:HE2	2	0.29
(1,1983)	1:133:A:ILE:HD12	1:80:A:LYS:HE2	4	0.29
(1,1931)	1:131:A:LEU:HD22	1:73:A:ALA:HA	8	0.29
(1,1927)	1:131:A:LEU:HD12	1:138:A:TRP:H	1	0.29
(1,1916)	1:131:A:LEU:HD13	1:91:A:LEU:HD23	7	0.29
(1,1916)	1:131:A:LEU:HD13	1:91:A:LEU:HD23	10	0.29
(1,1889)	1:130:A:PHE:H	1:129:A:ALA:HB1	7	0.29
(1,1883)	1:129:A:ALA:HB1	1:104:A:TRP:HH2	2	0.29
(1,1827)	1:97:A:THR:HG23	1:125:A:VAL:HB	1	0.29
(1,1769)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	4	0.29
(1,1520)	1:99:A:ASP:H	1:100:A:ALA:HB3	2	0.29
(1,1520)	1:99:A:ASP:H	1:100:A:ALA:HB2	5	0.29
(1,1520)	1:99:A:ASP:H	1:100:A:ALA:HB3	7	0.29
(1,1496)	1:96:A:ASP:H	1:97:A:THR:HG23	5	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1434)	1:93:A:MET:HA	1:91:A:LEU:HB2	10	0.29
(1,1283)	1:89:A:ILE:HD13	1:130:A:PHE:HA	10	0.29
(1,1173)	1:82:A:GLN:HG2	1:78:A:THR:HG21	9	0.29
(1,1079)	1:83:A:TRP:H	1:79:A:LEU:HD12	9	0.29
(1,1059)	1:78:A:THR:HG23	1:82:A:GLN:HA	1	0.29
(1,1033)	1:76:A:LEU:HG	1:131:A:LEU:HD23	1	0.29
(1,1033)	1:76:A:LEU:HG	1:131:A:LEU:HD21	2	0.29
(1,1033)	1:76:A:LEU:HG	1:131:A:LEU:HD22	5	0.29
(1,1033)	1:76:A:LEU:HG	1:131:A:LEU:HD21	7	0.29
(1,1021)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	7	0.29
(1,972)	1:75:A:ILE:HG23	1:79:A:LEU:H	5	0.29
(1,955)	1:75:A:ILE:HD13	1:37:A:TYR:HB2	4	0.29
(1,815)	1:66:A:ILE:HG21	1:138:A:TRP:HZ3	5	0.29
(1,803)	1:66:A:ILE:HG22	1:66:A:ILE:HG21	2	0.29
(1,803)	1:66:A:ILE:HG22	1:66:A:ILE:HG23	3	0.29
(1,803)	1:66:A:ILE:HG22	1:66:A:ILE:HG23	4	0.29
(1,803)	1:66:A:ILE:HG21	1:66:A:ILE:HG23	5	0.29
(1,803)	1:66:A:ILE:HG22	1:66:A:ILE:HG23	7	0.29
(1,803)	1:66:A:ILE:HG22	1:66:A:ILE:HG21	8	0.29
(1,803)	1:66:A:ILE:HG21	1:66:A:ILE:HG23	9	0.29
(1,803)	1:66:A:ILE:HG22	1:66:A:ILE:HG23	10	0.29
(1,791)	1:66:A:ILE:HG13	1:66:A:ILE:HG23	8	0.29
(1,760)	1:66:A:ILE:HA	1:154:A:LYS:HD2	2	0.29
(1,760)	1:66:A:ILE:HA	1:154:A:LYS:HD2	8	0.29
(1,750)	1:65:A:SER:HA	1:66:A:ILE:HD12	2	0.29
(1,677)	1:63:A:MET:HE3	1:91:A:LEU:HA	6	0.29
(1,587)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	3	0.29
(1,547)	1:52:A:VAL:HG13	1:53:A:ARG:HG3	8	0.29
(1,507)	1:50:A:GLU:HA	1:53:A:ARG:HB2	6	0.29
(1,428)	1:46:A:VAL:HG21	1:146:A:SER:HB3	4	0.29
(1,279)	1:38:A:ILE:HG22	1:40:A:LEU:HB2	4	0.29
(1,279)	1:38:A:ILE:HG23	1:40:A:LEU:HB2	6	0.29
(1,276)	1:40:A:LEU:HA	1:40:A:LEU:HD11	1	0.29
(1,276)	1:40:A:LEU:HA	1:40:A:LEU:HD12	3	0.29
(1,276)	1:40:A:LEU:HA	1:40:A:LEU:HD11	6	0.29
(1,276)	1:40:A:LEU:HA	1:40:A:LEU:HD11	9	0.29
(1,231)	1:38:A:ILE:HA	1:38:A:ILE:HD12	5	0.29
(1,231)	1:38:A:ILE:HA	1:38:A:ILE:HD12	10	0.29
(1,230)	1:38:A:ILE:H	1:38:A:ILE:HD13	4	0.29
(1,230)	1:38:A:ILE:H	1:38:A:ILE:HD11	5	0.29
(1,223)	1:38:A:ILE:HD12	1:30:A:ILE:HG13	5	0.29
(1,211)	1:37:A:TYR:HB2	1:152:A:LEU:HD21	8	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,208)	1:37:A:TYR:HB3	1:74:A:PHE:HE1	7	0.29
(1,158)	1:35:A:SER:HA	1:157:A:ILE:HD13	7	0.29
(1,8880)	1:133:A:ILE:H	1:131:A:LEU:HD12	3	0.28
(1,8743)	1:118:A:GLN:H	1:118:A:GLN:HG2	9	0.28
(1,8666)	1:110:A:MET:H	1:103:A:LYS:HG2	9	0.28
(1,8472)	1:93:A:MET:H	1:93:A:MET:HG2	2	0.28
(1,8464)	1:92:A:GLY:H	1:91:A:LEU:HB2	2	0.28
(1,8390)	1:83:A:TRP:HE1	1:79:A:LEU:HD13	4	0.28
(1,8390)	1:83:A:TRP:HE1	1:79:A:LEU:HD12	9	0.28
(1,8390)	1:83:A:TRP:HE1	1:79:A:LEU:HD12	10	0.28
(1,8357)	1:81:A:LYS:H	1:81:A:LYS:HB2	4	0.28
(1,8314)	1:77:A:ASP:H	1:78:A:THR:HG21	2	0.28
(1,8314)	1:77:A:ASP:H	1:78:A:THR:HG21	6	0.28
(1,8215)	1:70:A:GLU:H	1:70:A:GLU:HB3	5	0.28
(1,8215)	1:70:A:GLU:H	1:70:A:GLU:HB3	10	0.28
(1,8127)	1:62:A:ASP:H	1:155:A:THR:HG21	4	0.28
(1,7954)	1:51:A:ASP:H	1:49:A:ILE:HG21	5	0.28
(1,7928)	1:49:A:ILE:H	1:46:A:VAL:HG12	7	0.28
(1,7894)	1:44:A:ILE:H	1:43:A:ALA:HB3	2	0.28
(1,7894)	1:44:A:ILE:H	1:43:A:ALA:HB1	4	0.28
(1,7894)	1:44:A:ILE:H	1:43:A:ALA:HB3	5	0.28
(1,7894)	1:44:A:ILE:H	1:43:A:ALA:HB2	6	0.28
(1,7894)	1:44:A:ILE:H	1:43:A:ALA:HB3	7	0.28
(1,7894)	1:44:A:ILE:H	1:43:A:ALA:HB3	8	0.28
(1,7894)	1:44:A:ILE:H	1:43:A:ALA:HB2	9	0.28
(1,7592)	1:131:A:LEU:HD21	1:138:A:TRP:HD1	8	0.28
(1,7566)	1:90:A:LEU:HD13	1:130:A:PHE:HD1	9	0.28
(1,7403)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	6	0.28
(1,7186)	1:35:A:SER:H	1:157:A:ILE:HD13	9	0.28
(1,7088)	1:152:A:LEU:HD22	1:152:A:LEU:HD21	8	0.28
(1,7058)	1:37:A:TYR:HB2	1:152:A:LEU:HD11	7	0.28
(1,6983)	1:145:A:VAL:HG23	1:147:A:SER:HA	1	0.28
(1,6983)	1:145:A:VAL:HG23	1:147:A:SER:HA	2	0.28
(1,6983)	1:145:A:VAL:HG21	1:147:A:SER:HA	5	0.28
(1,6983)	1:145:A:VAL:HG23	1:147:A:SER:HA	6	0.28
(1,6911)	1:140:A:LYS:HD2	1:124:A:LEU:HD11	3	0.28
(1,6811)	1:136:A:GLY:H	1:135:A:THR:HG23	10	0.28
(1,6776)	1:133:A:ILE:HG22	1:80:A:LYS:HG2	4	0.28
(1,6776)	1:133:A:ILE:HG23	1:80:A:LYS:HG2	6	0.28
(1,6776)	1:133:A:ILE:HG21	1:80:A:LYS:HG2	9	0.28
(1,6776)	1:133:A:ILE:HG22	1:80:A:LYS:HG2	10	0.28
(1,6750)	1:133:A:ILE:HD13	1:80:A:LYS:HE2	3	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6747)	1:133:A:ILE:HB	1:133:A:ILE:HD12	5	0.28
(1,6747)	1:133:A:ILE:HB	1:133:A:ILE:HD13	6	0.28
(1,6747)	1:133:A:ILE:HB	1:133:A:ILE:HD13	8	0.28
(1,6712)	1:131:A:LEU:H	1:131:A:LEU:HD21	1	0.28
(1,6706)	1:131:A:LEU:HD21	1:72:A:ASN:HD21	4	0.28
(1,6698)	1:131:A:LEU:HD21	1:73:A:ALA:HA	4	0.28
(1,6694)	1:131:A:LEU:HD13	1:138:A:TRP:H	2	0.28
(1,6694)	1:131:A:LEU:HD12	1:138:A:TRP:H	4	0.28
(1,6658)	1:129:A:ALA:HB3	1:130:A:PHE:HD1	4	0.28
(1,6657)	1:129:A:ALA:HB3	1:130:A:PHE:HA	4	0.28
(1,6208)	1:93:A:MET:HB2	1:91:A:LEU:HD13	4	0.28
(1,6201)	1:93:A:MET:HA	1:91:A:LEU:HB2	6	0.28
(1,6174)	1:91:A:LEU:HA	1:91:A:LEU:HD22	7	0.28
(1,6161)	1:91:A:LEU:HD22	1:138:A:TRP:HB2	7	0.28
(1,6109)	1:90:A:LEU:HD22	1:63:A:MET:HB3	7	0.28
(1,6045)	1:89:A:ILE:HD11	1:88:A:ASP:HB3	5	0.28
(1,6040)	1:89:A:ILE:HB	1:89:A:ILE:HD13	7	0.28
(1,5940)	1:82:A:GLN:HG2	1:78:A:THR:HG22	10	0.28
(1,5847)	1:79:A:LEU:HD11	1:86:A:PRO:HB3	7	0.28
(1,5800)	1:76:A:LEU:HG	1:131:A:LEU:HD21	4	0.28
(1,5800)	1:76:A:LEU:HG	1:131:A:LEU:HD23	10	0.28
(1,5742)	1:75:A:ILE:HG21	1:78:A:THR:H	4	0.28
(1,5571)	1:66:A:ILE:HG21	1:71:A:GLU:HG3	2	0.28
(1,5571)	1:66:A:ILE:HG22	1:71:A:GLU:HG3	10	0.28
(1,5474)	1:64:A:ILE:HD13	1:152:A:LEU:HA	10	0.28
(1,5473)	1:64:A:ILE:HD13	1:130:A:PHE:HA	7	0.28
(1,5440)	1:63:A:MET:HE1	1:49:A:ILE:HD12	7	0.28
(1,5408)	1:38:A:ILE:HG21	1:61:A:ALA:HB2	6	0.28
(1,5407)	1:56:A:CYS:HB2	1:61:A:ALA:HB3	3	0.28
(1,5407)	1:56:A:CYS:HB2	1:61:A:ALA:HB1	6	0.28
(1,5195)	1:46:A:VAL:HG22	1:146:A:SER:HB3	1	0.28
(1,5184)	1:51:A:ASP:H	1:46:A:VAL:HG22	9	0.28
(1,5046)	1:38:A:ILE:HG21	1:40:A:LEU:HB2	5	0.28
(1,5043)	1:40:A:LEU:HA	1:40:A:LEU:HD12	7	0.28
(1,5043)	1:40:A:LEU:HA	1:40:A:LEU:HD12	8	0.28
(1,5043)	1:40:A:LEU:HA	1:40:A:LEU:HD11	10	0.28
(1,4998)	1:38:A:ILE:HA	1:38:A:ILE:HD12	3	0.28
(1,4692)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	9	0.28
(1,4682)	1:152:A:LEU:HD12	1:79:A:LEU:H	7	0.28
(1,4643)	1:78:A:THR:HB	1:81:A:LYS:HB2	3	0.28
(1,4640)	1:76:A:LEU:HD12	1:131:A:LEU:HA	6	0.28
(1,4636)	1:75:A:ILE:HG23	1:64:A:ILE:HG13	3	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4619)	1:64:A:ILE:HD13	1:152:A:LEU:H	6	0.28
(1,4513)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	9	0.28
(1,4503)	1:152:A:LEU:HD12	1:79:A:LEU:H	7	0.28
(1,4464)	1:78:A:THR:HB	1:81:A:LYS:HB2	3	0.28
(1,4461)	1:76:A:LEU:HD12	1:131:A:LEU:HA	6	0.28
(1,4457)	1:75:A:ILE:HG23	1:64:A:ILE:HG13	3	0.28
(1,4440)	1:64:A:ILE:HD13	1:152:A:LEU:H	6	0.28
(1,4113)	1:133:A:ILE:H	1:131:A:LEU:HD12	3	0.28
(1,3976)	1:118:A:GLN:H	1:118:A:GLN:HG2	9	0.28
(1,3899)	1:110:A:MET:H	1:103:A:LYS:HG2	9	0.28
(1,3705)	1:93:A:MET:H	1:93:A:MET:HG2	2	0.28
(1,3697)	1:92:A:GLY:H	1:91:A:LEU:HB2	2	0.28
(1,3623)	1:83:A:TRP:HE1	1:79:A:LEU:HD13	4	0.28
(1,3623)	1:83:A:TRP:HE1	1:79:A:LEU:HD12	9	0.28
(1,3623)	1:83:A:TRP:HE1	1:79:A:LEU:HD12	10	0.28
(1,3590)	1:81:A:LYS:H	1:81:A:LYS:HB2	4	0.28
(1,3547)	1:77:A:ASP:H	1:78:A:THR:HG21	2	0.28
(1,3547)	1:77:A:ASP:H	1:78:A:THR:HG21	6	0.28
(1,3448)	1:70:A:GLU:H	1:70:A:GLU:HB3	5	0.28
(1,3448)	1:70:A:GLU:H	1:70:A:GLU:HB3	10	0.28
(1,3360)	1:62:A:ASP:H	1:155:A:THR:HG21	4	0.28
(1,3187)	1:51:A:ASP:H	1:49:A:ILE:HG21	5	0.28
(1,3161)	1:49:A:ILE:H	1:46:A:VAL:HG12	7	0.28
(1,3127)	1:44:A:ILE:H	1:43:A:ALA:HB3	2	0.28
(1,3127)	1:44:A:ILE:H	1:43:A:ALA:HB1	4	0.28
(1,3127)	1:44:A:ILE:H	1:43:A:ALA:HB3	5	0.28
(1,3127)	1:44:A:ILE:H	1:43:A:ALA:HB2	6	0.28
(1,3127)	1:44:A:ILE:H	1:43:A:ALA:HB3	7	0.28
(1,3127)	1:44:A:ILE:H	1:43:A:ALA:HB3	8	0.28
(1,3127)	1:44:A:ILE:H	1:43:A:ALA:HB2	9	0.28
(1,2825)	1:131:A:LEU:HD21	1:138:A:TRP:HD1	8	0.28
(1,2799)	1:90:A:LEU:HD13	1:130:A:PHE:HD1	9	0.28
(1,2636)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	6	0.28
(1,2419)	1:35:A:SER:H	1:157:A:ILE:HD13	9	0.28
(1,2321)	1:152:A:LEU:HD22	1:152:A:LEU:HD21	8	0.28
(1,2291)	1:37:A:TYR:HB2	1:152:A:LEU:HD11	7	0.28
(1,2216)	1:145:A:VAL:HG23	1:147:A:SER:HA	1	0.28
(1,2216)	1:145:A:VAL:HG23	1:147:A:SER:HA	2	0.28
(1,2216)	1:145:A:VAL:HG21	1:147:A:SER:HA	5	0.28
(1,2216)	1:145:A:VAL:HG23	1:147:A:SER:HA	6	0.28
(1,2144)	1:140:A:LYS:HD2	1:124:A:LEU:HD11	3	0.28
(1,2044)	1:136:A:GLY:H	1:135:A:THR:HG23	10	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2009)	1:133:A:ILE:HG22	1:80:A:LYS:HG2	4	0.28
(1,2009)	1:133:A:ILE:HG23	1:80:A:LYS:HG2	6	0.28
(1,2009)	1:133:A:ILE:HG21	1:80:A:LYS:HG2	9	0.28
(1,2009)	1:133:A:ILE:HG22	1:80:A:LYS:HG2	10	0.28
(1,1983)	1:133:A:ILE:HD13	1:80:A:LYS:HE2	3	0.28
(1,1980)	1:133:A:ILE:HB	1:133:A:ILE:HD12	5	0.28
(1,1980)	1:133:A:ILE:HB	1:133:A:ILE:HD13	6	0.28
(1,1980)	1:133:A:ILE:HB	1:133:A:ILE:HD13	8	0.28
(1,1945)	1:131:A:LEU:H	1:131:A:LEU:HD21	1	0.28
(1,1939)	1:131:A:LEU:HD21	1:72:A:ASN:HD21	4	0.28
(1,1931)	1:131:A:LEU:HD21	1:73:A:ALA:HA	4	0.28
(1,1927)	1:131:A:LEU:HD13	1:138:A:TRP:H	2	0.28
(1,1927)	1:131:A:LEU:HD12	1:138:A:TRP:H	4	0.28
(1,1891)	1:129:A:ALA:HB3	1:130:A:PHE:HD1	4	0.28
(1,1890)	1:129:A:ALA:HB3	1:130:A:PHE:HA	4	0.28
(1,1441)	1:93:A:MET:HB2	1:91:A:LEU:HD13	4	0.28
(1,1434)	1:93:A:MET:HA	1:91:A:LEU:HB2	6	0.28
(1,1407)	1:91:A:LEU:HA	1:91:A:LEU:HD22	7	0.28
(1,1394)	1:91:A:LEU:HD22	1:138:A:TRP:HB2	7	0.28
(1,1342)	1:90:A:LEU:HD22	1:63:A:MET:HB3	7	0.28
(1,1278)	1:89:A:ILE:HD11	1:88:A:ASP:HB3	5	0.28
(1,1273)	1:89:A:ILE:HB	1:89:A:ILE:HD13	7	0.28
(1,1173)	1:82:A:GLN:HG2	1:78:A:THR:HG22	10	0.28
(1,1080)	1:79:A:LEU:HD11	1:86:A:PRO:HB3	7	0.28
(1,1033)	1:76:A:LEU:HG	1:131:A:LEU:HD21	4	0.28
(1,1033)	1:76:A:LEU:HG	1:131:A:LEU:HD23	10	0.28
(1,975)	1:75:A:ILE:HG21	1:78:A:THR:H	4	0.28
(1,804)	1:66:A:ILE:HG21	1:71:A:GLU:HG3	2	0.28
(1,804)	1:66:A:ILE:HG22	1:71:A:GLU:HG3	10	0.28
(1,707)	1:64:A:ILE:HD13	1:152:A:LEU:HA	10	0.28
(1,706)	1:64:A:ILE:HD13	1:130:A:PHE:HA	7	0.28
(1,673)	1:63:A:MET:HE1	1:49:A:ILE:HD12	7	0.28
(1,641)	1:38:A:ILE:HG21	1:61:A:ALA:HB2	6	0.28
(1,640)	1:56:A:CYS:HB2	1:61:A:ALA:HB3	3	0.28
(1,640)	1:56:A:CYS:HB2	1:61:A:ALA:HB1	6	0.28
(1,428)	1:46:A:VAL:HG22	1:146:A:SER:HB3	1	0.28
(1,417)	1:51:A:ASP:H	1:46:A:VAL:HG22	9	0.28
(1,279)	1:38:A:ILE:HG21	1:40:A:LEU:HB2	5	0.28
(1,276)	1:40:A:LEU:HA	1:40:A:LEU:HD12	7	0.28
(1,276)	1:40:A:LEU:HA	1:40:A:LEU:HD12	8	0.28
(1,276)	1:40:A:LEU:HA	1:40:A:LEU:HD11	10	0.28
(1,231)	1:38:A:ILE:HA	1:38:A:ILE:HD12	3	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,9012)	1:142:A:ASN:HD22	1:124:A:LEU:HD23	4	0.27
(1,9012)	1:142:A:ASN:HD22	1:124:A:LEU:HD23	5	0.27
(1,9012)	1:142:A:ASN:HD22	1:124:A:LEU:HD23	8	0.27
(1,8983)	1:140:A:LYS:H	1:124:A:LEU:HD22	8	0.27
(1,8880)	1:133:A:ILE:H	1:131:A:LEU:HD12	9	0.27
(1,8610)	1:105:A:PHE:H	1:105:A:PHE:HD1	2	0.27
(1,8472)	1:93:A:MET:H	1:93:A:MET:HG2	6	0.27
(1,8472)	1:93:A:MET:H	1:93:A:MET:HG2	7	0.27
(1,8472)	1:93:A:MET:H	1:93:A:MET:HG2	10	0.27
(1,8464)	1:92:A:GLY:H	1:91:A:LEU:HB2	7	0.27
(1,8390)	1:83:A:TRP:HE1	1:79:A:LEU:HD11	2	0.27
(1,8357)	1:81:A:LYS:H	1:81:A:LYS:HB2	8	0.27
(1,8336)	1:78:A:THR:H	1:79:A:LEU:HD21	1	0.27
(1,8336)	1:78:A:THR:H	1:79:A:LEU:HD23	2	0.27
(1,8334)	1:78:A:THR:H	1:78:A:THR:HG21	2	0.27
(1,8334)	1:78:A:THR:H	1:78:A:THR:HG23	4	0.27
(1,8314)	1:77:A:ASP:H	1:78:A:THR:HG21	8	0.27
(1,8271)	1:73:A:ALA:H	1:76:A:LEU:HD11	9	0.27
(1,7928)	1:49:A:ILE:H	1:46:A:VAL:HG11	6	0.27
(1,7663)	1:24:A:CYS:H	1:157:A:ILE:HD11	6	0.27
(1,7663)	1:24:A:CYS:H	1:157:A:ILE:HD11	9	0.27
(1,7566)	1:90:A:LEU:HD12	1:130:A:PHE:HD1	5	0.27
(1,7479)	1:104:A:TRP:HE3	1:64:A:ILE:HG22	5	0.27
(1,7403)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	5	0.27
(1,7169)	1:155:A:THR:HG21	1:155:A:THR:HG23	2	0.27
(1,7169)	1:155:A:THR:HG21	1:155:A:THR:HG23	4	0.27
(1,7169)	1:155:A:THR:HG21	1:155:A:THR:HG23	5	0.27
(1,7169)	1:155:A:THR:HG21	1:155:A:THR:HG23	6	0.27
(1,7169)	1:155:A:THR:HG22	1:155:A:THR:HG23	7	0.27
(1,7169)	1:155:A:THR:HG21	1:155:A:THR:HG23	8	0.27
(1,7157)	1:61:A:ALA:HB2	1:155:A:THR:HG22	6	0.27
(1,7097)	1:152:A:LEU:HD13	1:153:A:CYS:HA	3	0.27
(1,7097)	1:152:A:LEU:HD11	1:153:A:CYS:HA	9	0.27
(1,7079)	1:152:A:LEU:HD21	1:75:A:ILE:H	8	0.27
(1,6983)	1:145:A:VAL:HG23	1:147:A:SER:HA	4	0.27
(1,6983)	1:145:A:VAL:HG22	1:147:A:SER:HA	8	0.27
(1,6776)	1:133:A:ILE:HG22	1:80:A:LYS:HG2	1	0.27
(1,6776)	1:133:A:ILE:HG23	1:80:A:LYS:HG2	7	0.27
(1,6750)	1:133:A:ILE:HD13	1:80:A:LYS:HE2	1	0.27
(1,6750)	1:133:A:ILE:HD13	1:80:A:LYS:HE2	7	0.27
(1,6750)	1:133:A:ILE:HD13	1:80:A:LYS:HE2	10	0.27
(1,6747)	1:133:A:ILE:HB	1:133:A:ILE:HD12	7	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6724)	1:91:A:LEU:HD21	1:131:A:LEU:HG	6	0.27
(1,6712)	1:131:A:LEU:H	1:131:A:LEU:HD23	6	0.27
(1,6712)	1:131:A:LEU:H	1:131:A:LEU:HD23	8	0.27
(1,6651)	1:128:A:CYS:HA	1:129:A:ALA:HB3	3	0.27
(1,6650)	1:129:A:ALA:HB2	1:104:A:TRP:HH2	1	0.27
(1,6621)	1:128:A:CYS:H	1:127:A:THR:HG21	2	0.27
(1,6621)	1:128:A:CYS:H	1:127:A:THR:HG23	8	0.27
(1,6596)	1:125:A:VAL:HG13	1:97:A:THR:HG23	3	0.27
(1,6594)	1:97:A:THR:HG21	1:125:A:VAL:HB	10	0.27
(1,6581)	1:124:A:LEU:HG	1:120:A:ASP:HB3	7	0.27
(1,6536)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	3	0.27
(1,6522)	1:116:A:THR:HG22	1:139:A:LYS:HA	9	0.27
(1,6287)	1:99:A:ASP:H	1:100:A:ALA:HB2	4	0.27
(1,6201)	1:93:A:MET:HA	1:91:A:LEU:HB2	5	0.27
(1,6201)	1:93:A:MET:HA	1:91:A:LEU:HB2	7	0.27
(1,6201)	1:93:A:MET:HA	1:91:A:LEU:HB2	8	0.27
(1,6110)	1:90:A:LEU:HD23	1:90:A:LEU:H	6	0.27
(1,6053)	1:89:A:ILE:HG13	1:90:A:LEU:HA	1	0.27
(1,6053)	1:89:A:ILE:HG13	1:90:A:LEU:HA	2	0.27
(1,6053)	1:89:A:ILE:HG13	1:90:A:LEU:HA	3	0.27
(1,6053)	1:89:A:ILE:HG13	1:90:A:LEU:HA	4	0.27
(1,6053)	1:89:A:ILE:HG13	1:90:A:LEU:HA	5	0.27
(1,6053)	1:89:A:ILE:HG13	1:90:A:LEU:HA	7	0.27
(1,6053)	1:89:A:ILE:HG13	1:90:A:LEU:HA	8	0.27
(1,6053)	1:89:A:ILE:HG13	1:90:A:LEU:HA	9	0.27
(1,6053)	1:89:A:ILE:HG13	1:90:A:LEU:HA	10	0.27
(1,6050)	1:89:A:ILE:HD13	1:130:A:PHE:HA	2	0.27
(1,5867)	1:79:A:LEU:HD23	1:76:A:LEU:HA	1	0.27
(1,5867)	1:79:A:LEU:HD22	1:76:A:LEU:HA	3	0.27
(1,5867)	1:79:A:LEU:HD23	1:76:A:LEU:HA	10	0.27
(1,5847)	1:79:A:LEU:HD11	1:86:A:PRO:HB3	6	0.27
(1,5846)	1:83:A:TRP:H	1:79:A:LEU:HD12	5	0.27
(1,5800)	1:76:A:LEU:HG	1:131:A:LEU:HD22	8	0.27
(1,5788)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	10	0.27
(1,5776)	1:76:A:LEU:HD11	1:133:A:ILE:HA	2	0.27
(1,5744)	1:75:A:ILE:HG21	1:65:A:SER:H	1	0.27
(1,5706)	1:74:A:PHE:HB3	1:73:A:ALA:HB2	4	0.27
(1,5706)	1:74:A:PHE:HB3	1:73:A:ALA:HB3	9	0.27
(1,5572)	1:66:A:ILE:HG22	1:71:A:GLU:HB2	4	0.27
(1,5571)	1:66:A:ILE:HG21	1:71:A:GLU:HG3	1	0.27
(1,5558)	1:66:A:ILE:HG13	1:66:A:ILE:HG22	5	0.27
(1,5505)	1:64:A:ILE:HG21	1:65:A:SER:H	1	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5505)	1:64:A:ILE:HG23	1:65:A:SER:H	8	0.27
(1,5410)	1:61:A:ALA:HB3	1:29:A:TRP:HZ2	7	0.27
(1,5312)	1:52:A:VAL:HG11	1:52:A:VAL:HG13	1	0.27
(1,5312)	1:52:A:VAL:HG12	1:52:A:VAL:HG13	3	0.27
(1,5312)	1:52:A:VAL:HG12	1:52:A:VAL:HG13	4	0.27
(1,5312)	1:52:A:VAL:HG11	1:52:A:VAL:HG13	5	0.27
(1,5312)	1:52:A:VAL:HG12	1:52:A:VAL:HG11	7	0.27
(1,5312)	1:52:A:VAL:HG11	1:52:A:VAL:HG13	9	0.27
(1,5305)	1:52:A:VAL:HG11	1:55:A:GLN:HE22	6	0.27
(1,5303)	1:52:A:VAL:HB	1:53:A:ARG:HG3	8	0.27
(1,5195)	1:46:A:VAL:HG21	1:146:A:SER:HB3	7	0.27
(1,5184)	1:51:A:ASP:H	1:46:A:VAL:HG22	7	0.27
(1,5164)	1:45:A:LYS:HG3	1:46:A:VAL:HG21	5	0.27
(1,5043)	1:40:A:LEU:HA	1:40:A:LEU:HD13	2	0.27
(1,5043)	1:40:A:LEU:HA	1:40:A:LEU:HD12	4	0.27
(1,5004)	1:39:A:PHE:H	1:38:A:ILE:HD12	7	0.27
(1,4997)	1:38:A:ILE:H	1:38:A:ILE:HD11	3	0.27
(1,4992)	1:28:A:THR:HA	1:38:A:ILE:HD11	4	0.27
(1,4978)	1:37:A:TYR:HB2	1:152:A:LEU:HD23	9	0.27
(1,4925)	1:35:A:SER:HA	1:157:A:ILE:HD13	9	0.27
(1,4832)	1:28:A:THR:HG23	1:38:A:ILE:HD11	1	0.27
(1,4761)	1:138:A:TRP:H	1:114:A:LYS:HE3	1	0.27
(1,4732)	1:66:A:ILE:H	1:154:A:LYS:HE3	9	0.27
(1,4717)	1:36:A:CYS:H	1:156:A:ALA:HB3	1	0.27
(1,4699)	1:93:A:MET:HB2	1:94:A:PHE:HD1	5	0.27
(1,4625)	1:66:A:ILE:HD13	1:136:A:GLY:HA2	8	0.27
(1,4600)	1:49:A:ILE:HB	1:90:A:LEU:HD13	9	0.27
(1,4582)	1:138:A:TRP:H	1:114:A:LYS:HE3	1	0.27
(1,4553)	1:66:A:ILE:H	1:154:A:LYS:HE3	9	0.27
(1,4538)	1:36:A:CYS:H	1:156:A:ALA:HB3	1	0.27
(1,4520)	1:93:A:MET:HB2	1:94:A:PHE:HD1	5	0.27
(1,4446)	1:66:A:ILE:HD13	1:136:A:GLY:HA2	8	0.27
(1,4421)	1:49:A:ILE:HB	1:90:A:LEU:HD13	9	0.27
(1,4245)	1:142:A:ASN:HD22	1:124:A:LEU:HD23	4	0.27
(1,4245)	1:142:A:ASN:HD22	1:124:A:LEU:HD23	5	0.27
(1,4245)	1:142:A:ASN:HD22	1:124:A:LEU:HD23	8	0.27
(1,4216)	1:140:A:LYS:H	1:124:A:LEU:HD22	8	0.27
(1,4113)	1:133:A:ILE:H	1:131:A:LEU:HD12	9	0.27
(1,3843)	1:105:A:PHE:H	1:105:A:PHE:HD1	2	0.27
(1,3705)	1:93:A:MET:H	1:93:A:MET:HG2	6	0.27
(1,3705)	1:93:A:MET:H	1:93:A:MET:HG2	7	0.27
(1,3705)	1:93:A:MET:H	1:93:A:MET:HG2	10	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3697)	1:92:A:GLY:H	1:91:A:LEU:HB2	7	0.27
(1,3623)	1:83:A:TRP:HE1	1:79:A:LEU:HD11	2	0.27
(1,3590)	1:81:A:LYS:H	1:81:A:LYS:HB2	8	0.27
(1,3569)	1:78:A:THR:H	1:79:A:LEU:HD21	1	0.27
(1,3569)	1:78:A:THR:H	1:79:A:LEU:HD23	2	0.27
(1,3567)	1:78:A:THR:H	1:78:A:THR:HG21	2	0.27
(1,3567)	1:78:A:THR:H	1:78:A:THR:HG23	4	0.27
(1,3547)	1:77:A:ASP:H	1:78:A:THR:HG21	8	0.27
(1,3504)	1:73:A:ALA:H	1:76:A:LEU:HD11	9	0.27
(1,3161)	1:49:A:ILE:H	1:46:A:VAL:HG11	6	0.27
(1,2896)	1:24:A:CYS:H	1:157:A:ILE:HD11	6	0.27
(1,2896)	1:24:A:CYS:H	1:157:A:ILE:HD11	9	0.27
(1,2799)	1:90:A:LEU:HD12	1:130:A:PHE:HD1	5	0.27
(1,2712)	1:104:A:TRP:HE3	1:64:A:ILE:HG22	5	0.27
(1,2636)	1:83:A:TRP:HH2	1:37:A:TYR:HD2	5	0.27
(1,2402)	1:155:A:THR:HG21	1:155:A:THR:HG23	2	0.27
(1,2402)	1:155:A:THR:HG21	1:155:A:THR:HG23	4	0.27
(1,2402)	1:155:A:THR:HG21	1:155:A:THR:HG23	5	0.27
(1,2402)	1:155:A:THR:HG21	1:155:A:THR:HG23	6	0.27
(1,2402)	1:155:A:THR:HG22	1:155:A:THR:HG23	7	0.27
(1,2402)	1:155:A:THR:HG21	1:155:A:THR:HG23	8	0.27
(1,2390)	1:61:A:ALA:HB2	1:155:A:THR:HG22	6	0.27
(1,2330)	1:152:A:LEU:HD13	1:153:A:CYS:HA	3	0.27
(1,2330)	1:152:A:LEU:HD11	1:153:A:CYS:HA	9	0.27
(1,2312)	1:152:A:LEU:HD21	1:75:A:ILE:H	8	0.27
(1,2216)	1:145:A:VAL:HG23	1:147:A:SER:HA	4	0.27
(1,2216)	1:145:A:VAL:HG22	1:147:A:SER:HA	8	0.27
(1,2009)	1:133:A:ILE:HG22	1:80:A:LYS:HG2	1	0.27
(1,2009)	1:133:A:ILE:HG23	1:80:A:LYS:HG2	7	0.27
(1,1983)	1:133:A:ILE:HD13	1:80:A:LYS:HE2	1	0.27
(1,1983)	1:133:A:ILE:HD13	1:80:A:LYS:HE2	7	0.27
(1,1983)	1:133:A:ILE:HD13	1:80:A:LYS:HE2	10	0.27
(1,1980)	1:133:A:ILE:HB	1:133:A:ILE:HD12	7	0.27
(1,1957)	1:91:A:LEU:HD21	1:131:A:LEU:HG	6	0.27
(1,1945)	1:131:A:LEU:H	1:131:A:LEU:HD23	6	0.27
(1,1945)	1:131:A:LEU:H	1:131:A:LEU:HD23	8	0.27
(1,1884)	1:128:A:CYS:HA	1:129:A:ALA:HB3	3	0.27
(1,1883)	1:129:A:ALA:HB2	1:104:A:TRP:HH2	1	0.27
(1,1854)	1:128:A:CYS:H	1:127:A:THR:HG21	2	0.27
(1,1854)	1:128:A:CYS:H	1:127:A:THR:HG23	8	0.27
(1,1829)	1:125:A:VAL:HG13	1:97:A:THR:HG23	3	0.27
(1,1827)	1:97:A:THR:HG21	1:125:A:VAL:HB	10	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1814)	1:124:A:LEU:HG	1:120:A:ASP:HB3	7	0.27
(1,1769)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	3	0.27
(1,1755)	1:116:A:THR:HG22	1:139:A:LYS:HA	9	0.27
(1,1520)	1:99:A:ASP:H	1:100:A:ALA:HB2	4	0.27
(1,1434)	1:93:A:MET:HA	1:91:A:LEU:HB2	5	0.27
(1,1434)	1:93:A:MET:HA	1:91:A:LEU:HB2	7	0.27
(1,1434)	1:93:A:MET:HA	1:91:A:LEU:HB2	8	0.27
(1,1343)	1:90:A:LEU:HD23	1:90:A:LEU:H	6	0.27
(1,1286)	1:89:A:ILE:HG13	1:90:A:LEU:HA	1	0.27
(1,1286)	1:89:A:ILE:HG13	1:90:A:LEU:HA	2	0.27
(1,1286)	1:89:A:ILE:HG13	1:90:A:LEU:HA	3	0.27
(1,1286)	1:89:A:ILE:HG13	1:90:A:LEU:HA	4	0.27
(1,1286)	1:89:A:ILE:HG13	1:90:A:LEU:HA	5	0.27
(1,1286)	1:89:A:ILE:HG13	1:90:A:LEU:HA	7	0.27
(1,1286)	1:89:A:ILE:HG13	1:90:A:LEU:HA	8	0.27
(1,1286)	1:89:A:ILE:HG13	1:90:A:LEU:HA	9	0.27
(1,1286)	1:89:A:ILE:HG13	1:90:A:LEU:HA	10	0.27
(1,1283)	1:89:A:ILE:HD13	1:130:A:PHE:HA	2	0.27
(1,1100)	1:79:A:LEU:HD23	1:76:A:LEU:HA	1	0.27
(1,1100)	1:79:A:LEU:HD22	1:76:A:LEU:HA	3	0.27
(1,1100)	1:79:A:LEU:HD23	1:76:A:LEU:HA	10	0.27
(1,1080)	1:79:A:LEU:HD11	1:86:A:PRO:HB3	6	0.27
(1,1079)	1:83:A:TRP:H	1:79:A:LEU:HD12	5	0.27
(1,1033)	1:76:A:LEU:HG	1:131:A:LEU:HD22	8	0.27
(1,1021)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	10	0.27
(1,1009)	1:76:A:LEU:HD11	1:133:A:ILE:HA	2	0.27
(1,977)	1:75:A:ILE:HG21	1:65:A:SER:H	1	0.27
(1,939)	1:74:A:PHE:HB3	1:73:A:ALA:HB2	4	0.27
(1,939)	1:74:A:PHE:HB3	1:73:A:ALA:HB3	9	0.27
(1,805)	1:66:A:ILE:HG22	1:71:A:GLU:HB2	4	0.27
(1,804)	1:66:A:ILE:HG21	1:71:A:GLU:HG3	1	0.27
(1,791)	1:66:A:ILE:HG13	1:66:A:ILE:HG22	5	0.27
(1,738)	1:64:A:ILE:HG21	1:65:A:SER:H	1	0.27
(1,738)	1:64:A:ILE:HG23	1:65:A:SER:H	8	0.27
(1,643)	1:61:A:ALA:HB3	1:29:A:TRP:HZ2	7	0.27
(1,545)	1:52:A:VAL:HG11	1:52:A:VAL:HG13	1	0.27
(1,545)	1:52:A:VAL:HG12	1:52:A:VAL:HG13	3	0.27
(1,545)	1:52:A:VAL:HG12	1:52:A:VAL:HG13	4	0.27
(1,545)	1:52:A:VAL:HG11	1:52:A:VAL:HG13	5	0.27
(1,545)	1:52:A:VAL:HG12	1:52:A:VAL:HG11	7	0.27
(1,545)	1:52:A:VAL:HG11	1:52:A:VAL:HG13	9	0.27
(1,538)	1:52:A:VAL:HG11	1:55:A:GLN:HE22	6	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,536)	1:52:A:VAL:HB	1:53:A:ARG:HG3	8	0.27
(1,428)	1:46:A:VAL:HG21	1:146:A:SER:HB3	7	0.27
(1,417)	1:51:A:ASP:H	1:46:A:VAL:HG22	7	0.27
(1,397)	1:45:A:LYS:HG3	1:46:A:VAL:HG21	5	0.27
(1,276)	1:40:A:LEU:HA	1:40:A:LEU:HD13	2	0.27
(1,276)	1:40:A:LEU:HA	1:40:A:LEU:HD12	4	0.27
(1,237)	1:39:A:PHE:H	1:38:A:ILE:HD12	7	0.27
(1,230)	1:38:A:ILE:H	1:38:A:ILE:HD11	3	0.27
(1,225)	1:28:A:THR:HA	1:38:A:ILE:HD11	4	0.27
(1,211)	1:37:A:TYR:HB2	1:152:A:LEU:HD23	9	0.27
(1,158)	1:35:A:SER:HA	1:157:A:ILE:HD13	9	0.27
(1,65)	1:28:A:THR:HG23	1:38:A:ILE:HD11	1	0.27
(1,8983)	1:140:A:LYS:H	1:124:A:LEU:HD23	2	0.26
(1,8819)	1:129:A:ALA:H	1:90:A:LEU:HD12	5	0.26
(1,8819)	1:129:A:ALA:H	1:90:A:LEU:HD12	8	0.26
(1,8819)	1:129:A:ALA:H	1:90:A:LEU:HD13	9	0.26
(1,8390)	1:83:A:TRP:HE1	1:79:A:LEU:HD12	3	0.26
(1,8314)	1:77:A:ASP:H	1:78:A:THR:HG23	5	0.26
(1,8215)	1:70:A:GLU:H	1:70:A:GLU:HB3	2	0.26
(1,8215)	1:70:A:GLU:H	1:70:A:GLU:HB3	7	0.26
(1,8034)	1:55:A:GLN:HE22	1:40:A:LEU:HD21	9	0.26
(1,7974)	1:53:A:ARG:H	1:46:A:VAL:HG13	2	0.26
(1,7954)	1:51:A:ASP:H	1:49:A:ILE:HG22	3	0.26
(1,7894)	1:44:A:ILE:H	1:43:A:ALA:HB2	1	0.26
(1,7894)	1:44:A:ILE:H	1:43:A:ALA:HB1	10	0.26
(1,7566)	1:90:A:LEU:HD12	1:130:A:PHE:HD1	10	0.26
(1,7458)	1:102:A:PHE:HD1	1:124:A:LEU:HD22	6	0.26
(1,7213)	1:157:A:ILE:HG23	1:158:A:PRO:HD3	5	0.26
(1,7169)	1:155:A:THR:HG22	1:155:A:THR:HG23	1	0.26
(1,7169)	1:155:A:THR:HG21	1:155:A:THR:HG22	3	0.26
(1,7169)	1:155:A:THR:HG21	1:155:A:THR:HG22	9	0.26
(1,7169)	1:155:A:THR:HG21	1:155:A:THR:HG22	10	0.26
(1,7097)	1:152:A:LEU:HD12	1:153:A:CYS:HA	1	0.26
(1,7079)	1:152:A:LEU:HD22	1:75:A:ILE:H	4	0.26
(1,7075)	1:152:A:LEU:HD12	1:153:A:CYS:HB2	2	0.26
(1,7009)	1:148:A:VAL:HG21	1:147:A:SER:HB2	10	0.26
(1,6776)	1:133:A:ILE:HG23	1:80:A:LYS:HG2	3	0.26
(1,6776)	1:133:A:ILE:HG21	1:80:A:LYS:HG2	5	0.26
(1,6750)	1:133:A:ILE:HD13	1:80:A:LYS:HE2	5	0.26
(1,6750)	1:133:A:ILE:HD13	1:80:A:LYS:HE2	9	0.26
(1,6747)	1:133:A:ILE:HB	1:133:A:ILE:HD11	2	0.26
(1,6747)	1:133:A:ILE:HB	1:133:A:ILE:HD11	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6747)	1:133:A:ILE:HB	1:133:A:ILE:HD12	9	0.26
(1,6712)	1:131:A:LEU:H	1:131:A:LEU:HD22	2	0.26
(1,6712)	1:131:A:LEU:H	1:131:A:LEU:HD22	3	0.26
(1,6712)	1:131:A:LEU:H	1:131:A:LEU:HD22	7	0.26
(1,6656)	1:130:A:PHE:H	1:129:A:ALA:HB1	3	0.26
(1,6656)	1:130:A:PHE:H	1:129:A:ALA:HB3	8	0.26
(1,6656)	1:130:A:PHE:H	1:129:A:ALA:HB1	10	0.26
(1,6621)	1:128:A:CYS:H	1:127:A:THR:HG23	7	0.26
(1,6522)	1:116:A:THR:HG21	1:139:A:LYS:HA	7	0.26
(1,6334)	1:103:A:LYS:HD3	1:96:A:ASP:HA	4	0.26
(1,6201)	1:93:A:MET:HA	1:91:A:LEU:HB2	1	0.26
(1,6201)	1:93:A:MET:HA	1:91:A:LEU:HB2	2	0.26
(1,6201)	1:93:A:MET:HA	1:91:A:LEU:HB2	4	0.26
(1,5867)	1:79:A:LEU:HD22	1:76:A:LEU:HA	2	0.26
(1,5867)	1:79:A:LEU:HD22	1:76:A:LEU:HA	4	0.26
(1,5867)	1:79:A:LEU:HD21	1:76:A:LEU:HA	6	0.26
(1,5846)	1:83:A:TRP:H	1:79:A:LEU:HD12	3	0.26
(1,5801)	1:77:A:ASP:HA	1:80:A:LYS:HB2	5	0.26
(1,5788)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	3	0.26
(1,5788)	1:76:A:LEU:HD22	1:72:A:ASN:HB3	5	0.26
(1,5749)	1:75:A:ILE:HG21	1:75:A:ILE:HG23	9	0.26
(1,5739)	1:75:A:ILE:HG22	1:79:A:LEU:H	2	0.26
(1,5706)	1:74:A:PHE:HB3	1:73:A:ALA:HB1	1	0.26
(1,5706)	1:74:A:PHE:HB3	1:73:A:ALA:HB2	6	0.26
(1,5596)	1:68:A:ASN:HA	1:112:A:PHE:HD1	5	0.26
(1,5582)	1:66:A:ILE:HG22	1:138:A:TRP:HZ3	8	0.26
(1,5565)	1:66:A:ILE:HG21	1:113:A:ASP:HA	5	0.26
(1,5558)	1:66:A:ILE:HG13	1:66:A:ILE:HG21	6	0.26
(1,5517)	1:65:A:SER:HA	1:66:A:ILE:HD11	8	0.26
(1,5505)	1:64:A:ILE:HG22	1:65:A:SER:H	5	0.26
(1,5487)	1:64:A:ILE:HD13	1:91:A:LEU:HD22	1	0.26
(1,5473)	1:64:A:ILE:HD13	1:130:A:PHE:HA	1	0.26
(1,5473)	1:64:A:ILE:HD13	1:130:A:PHE:HA	2	0.26
(1,5440)	1:63:A:MET:HE3	1:49:A:ILE:HD11	4	0.26
(1,5440)	1:63:A:MET:HE1	1:49:A:ILE:HD13	10	0.26
(1,5408)	1:38:A:ILE:HG22	1:61:A:ALA:HB3	9	0.26
(1,5386)	1:57:A:THR:HG22	1:61:A:ALA:H	8	0.26
(1,5312)	1:52:A:VAL:HG11	1:52:A:VAL:HG13	2	0.26
(1,5312)	1:52:A:VAL:HG11	1:52:A:VAL:HG13	6	0.26
(1,5312)	1:52:A:VAL:HG11	1:52:A:VAL:HG13	8	0.26
(1,5312)	1:52:A:VAL:HG11	1:52:A:VAL:HG13	10	0.26
(1,5303)	1:52:A:VAL:HB	1:53:A:ARG:HG3	6	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5046)	1:38:A:ILE:HG21	1:40:A:LEU:HB2	9	0.26
(1,5043)	1:40:A:LEU:HA	1:40:A:LEU:HD13	5	0.26
(1,4997)	1:38:A:ILE:H	1:38:A:ILE:HD12	6	0.26
(1,4989)	1:38:A:ILE:HD11	1:26:A:SER:H	4	0.26
(1,4761)	1:138:A:TRP:H	1:115:A:TRP:HB2	4	0.26
(1,4761)	1:138:A:TRP:H	1:114:A:LYS:HE3	9	0.26
(1,4748)	1:96:A:ASP:H	1:95:A:TYR:HB3	5	0.26
(1,4727)	1:48:A:SER:H	1:45:A:LYS:HG3	2	0.26
(1,4705)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	2	0.26
(1,4705)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	10	0.26
(1,4699)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	6	0.26
(1,4699)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	10	0.26
(1,4692)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	3	0.26
(1,4670)	1:134:A:LYS:HA	1:76:A:LEU:HG	3	0.26
(1,4666)	1:131:A:LEU:HD11	1:137:A:GLU:HB2	7	0.26
(1,4643)	1:78:A:THR:HB	1:81:A:LYS:HB2	10	0.26
(1,4636)	1:75:A:ILE:HG22	1:64:A:ILE:HG13	6	0.26
(1,4582)	1:138:A:TRP:H	1:115:A:TRP:HB2	4	0.26
(1,4582)	1:138:A:TRP:H	1:114:A:LYS:HE3	9	0.26
(1,4569)	1:96:A:ASP:H	1:95:A:TYR:HB3	5	0.26
(1,4548)	1:48:A:SER:H	1:45:A:LYS:HG3	2	0.26
(1,4526)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	2	0.26
(1,4526)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	10	0.26
(1,4520)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	6	0.26
(1,4520)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	10	0.26
(1,4513)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	3	0.26
(1,4491)	1:134:A:LYS:HA	1:76:A:LEU:HG	3	0.26
(1,4487)	1:131:A:LEU:HD11	1:137:A:GLU:HB2	7	0.26
(1,4464)	1:78:A:THR:HB	1:81:A:LYS:HB2	10	0.26
(1,4457)	1:75:A:ILE:HG22	1:64:A:ILE:HG13	6	0.26
(1,4216)	1:140:A:LYS:H	1:124:A:LEU:HD23	2	0.26
(1,4052)	1:129:A:ALA:H	1:90:A:LEU:HD12	5	0.26
(1,4052)	1:129:A:ALA:H	1:90:A:LEU:HD12	8	0.26
(1,4052)	1:129:A:ALA:H	1:90:A:LEU:HD13	9	0.26
(1,3623)	1:83:A:TRP:HE1	1:79:A:LEU:HD12	3	0.26
(1,3547)	1:77:A:ASP:H	1:78:A:THR:HG23	5	0.26
(1,3448)	1:70:A:GLU:H	1:70:A:GLU:HB3	2	0.26
(1,3448)	1:70:A:GLU:H	1:70:A:GLU:HB3	7	0.26
(1,3267)	1:55:A:GLN:HE22	1:40:A:LEU:HD21	9	0.26
(1,3207)	1:53:A:ARG:H	1:46:A:VAL:HG13	2	0.26
(1,3187)	1:51:A:ASP:H	1:49:A:ILE:HG22	3	0.26
(1,3127)	1:44:A:ILE:H	1:43:A:ALA:HB2	1	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3127)	1:44:A:ILE:H	1:43:A:ALA:HB1	10	0.26
(1,2799)	1:90:A:LEU:HD12	1:130:A:PHE:HD1	10	0.26
(1,2691)	1:102:A:PHE:HD1	1:124:A:LEU:HD22	6	0.26
(1,2446)	1:157:A:ILE:HG23	1:158:A:PRO:HD3	5	0.26
(1,2402)	1:155:A:THR:HG22	1:155:A:THR:HG23	1	0.26
(1,2402)	1:155:A:THR:HG21	1:155:A:THR:HG22	3	0.26
(1,2402)	1:155:A:THR:HG21	1:155:A:THR:HG22	9	0.26
(1,2402)	1:155:A:THR:HG21	1:155:A:THR:HG22	10	0.26
(1,2330)	1:152:A:LEU:HD12	1:153:A:CYS:HA	1	0.26
(1,2312)	1:152:A:LEU:HD22	1:75:A:ILE:H	4	0.26
(1,2308)	1:152:A:LEU:HD12	1:153:A:CYS:HB2	2	0.26
(1,2242)	1:148:A:VAL:HG21	1:147:A:SER:HB2	10	0.26
(1,2009)	1:133:A:ILE:HG23	1:80:A:LYS:HG2	3	0.26
(1,2009)	1:133:A:ILE:HG21	1:80:A:LYS:HG2	5	0.26
(1,1983)	1:133:A:ILE:HD13	1:80:A:LYS:HE2	5	0.26
(1,1983)	1:133:A:ILE:HD13	1:80:A:LYS:HE2	9	0.26
(1,1980)	1:133:A:ILE:HB	1:133:A:ILE:HD11	2	0.26
(1,1980)	1:133:A:ILE:HB	1:133:A:ILE:HD11	4	0.26
(1,1980)	1:133:A:ILE:HB	1:133:A:ILE:HD12	9	0.26
(1,1945)	1:131:A:LEU:H	1:131:A:LEU:HD22	2	0.26
(1,1945)	1:131:A:LEU:H	1:131:A:LEU:HD22	3	0.26
(1,1945)	1:131:A:LEU:H	1:131:A:LEU:HD22	7	0.26
(1,1889)	1:130:A:PHE:H	1:129:A:ALA:HB1	3	0.26
(1,1889)	1:130:A:PHE:H	1:129:A:ALA:HB3	8	0.26
(1,1889)	1:130:A:PHE:H	1:129:A:ALA:HB1	10	0.26
(1,1854)	1:128:A:CYS:H	1:127:A:THR:HG23	7	0.26
(1,1755)	1:116:A:THR:HG21	1:139:A:LYS:HA	7	0.26
(1,1567)	1:103:A:LYS:HD3	1:96:A:ASP:HA	4	0.26
(1,1434)	1:93:A:MET:HA	1:91:A:LEU:HB2	1	0.26
(1,1434)	1:93:A:MET:HA	1:91:A:LEU:HB2	2	0.26
(1,1434)	1:93:A:MET:HA	1:91:A:LEU:HB2	4	0.26
(1,1100)	1:79:A:LEU:HD22	1:76:A:LEU:HA	2	0.26
(1,1100)	1:79:A:LEU:HD22	1:76:A:LEU:HA	4	0.26
(1,1100)	1:79:A:LEU:HD21	1:76:A:LEU:HA	6	0.26
(1,1079)	1:83:A:TRP:H	1:79:A:LEU:HD12	3	0.26
(1,1034)	1:77:A:ASP:HA	1:80:A:LYS:HB2	5	0.26
(1,1021)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	3	0.26
(1,1021)	1:76:A:LEU:HD22	1:72:A:ASN:HB3	5	0.26
(1,982)	1:75:A:ILE:HG21	1:75:A:ILE:HG23	9	0.26
(1,972)	1:75:A:ILE:HG22	1:79:A:LEU:H	2	0.26
(1,939)	1:74:A:PHE:HB3	1:73:A:ALA:HB1	1	0.26
(1,939)	1:74:A:PHE:HB3	1:73:A:ALA:HB2	6	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,829)	1:68:A:ASN:HA	1:112:A:PHE:HD1	5	0.26
(1,815)	1:66:A:ILE:HG22	1:138:A:TRP:HZ3	8	0.26
(1,798)	1:66:A:ILE:HG21	1:113:A:ASP:HA	5	0.26
(1,791)	1:66:A:ILE:HG13	1:66:A:ILE:HG21	6	0.26
(1,750)	1:65:A:SER:HA	1:66:A:ILE:HD11	8	0.26
(1,738)	1:64:A:ILE:HG22	1:65:A:SER:H	5	0.26
(1,720)	1:64:A:ILE:HD13	1:91:A:LEU:HD22	1	0.26
(1,706)	1:64:A:ILE:HD13	1:130:A:PHE:HA	1	0.26
(1,706)	1:64:A:ILE:HD13	1:130:A:PHE:HA	2	0.26
(1,673)	1:63:A:MET:HE3	1:49:A:ILE:HD11	4	0.26
(1,673)	1:63:A:MET:HE1	1:49:A:ILE:HD13	10	0.26
(1,641)	1:38:A:ILE:HG22	1:61:A:ALA:HB3	9	0.26
(1,619)	1:57:A:THR:HG22	1:61:A:ALA:H	8	0.26
(1,545)	1:52:A:VAL:HG11	1:52:A:VAL:HG13	2	0.26
(1,545)	1:52:A:VAL:HG11	1:52:A:VAL:HG13	6	0.26
(1,545)	1:52:A:VAL:HG11	1:52:A:VAL:HG13	8	0.26
(1,545)	1:52:A:VAL:HG11	1:52:A:VAL:HG13	10	0.26
(1,536)	1:52:A:VAL:HB	1:53:A:ARG:HG3	6	0.26
(1,279)	1:38:A:ILE:HG21	1:40:A:LEU:HB2	9	0.26
(1,276)	1:40:A:LEU:HA	1:40:A:LEU:HD13	5	0.26
(1,230)	1:38:A:ILE:H	1:38:A:ILE:HD12	6	0.26
(1,222)	1:38:A:ILE:HD11	1:26:A:SER:H	4	0.26
(1,9144)	1:156:A:ALA:H	1:155:A:THR:HG23	6	0.25
(1,9008)	1:142:A:ASN:HD21	1:127:A:THR:HG22	6	0.25
(1,8821)	1:129:A:ALA:H	1:91:A:LEU:HD21	6	0.25
(1,8654)	1:109:A:ASN:H	1:109:A:ASN:HB2	7	0.25
(1,8376)	1:82:A:GLN:HE21	1:78:A:THR:HG23	8	0.25
(1,8357)	1:81:A:LYS:H	1:81:A:LYS:HB2	1	0.25
(1,8336)	1:78:A:THR:H	1:79:A:LEU:HD23	4	0.25
(1,8271)	1:73:A:ALA:H	1:76:A:LEU:HD13	10	0.25
(1,8215)	1:70:A:GLU:H	1:70:A:GLU:HB3	3	0.25
(1,7592)	1:131:A:LEU:HD23	1:138:A:TRP:HD1	4	0.25
(1,7352)	1:59:A:HIS:HD2	1:38:A:ILE:HD11	8	0.25
(1,7328)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	10	0.25
(1,7213)	1:157:A:ILE:HG21	1:158:A:PRO:HD3	4	0.25
(1,7157)	1:61:A:ALA:HB1	1:155:A:THR:HG23	3	0.25
(1,7097)	1:152:A:LEU:HD13	1:153:A:CYS:HA	7	0.25
(1,7083)	1:152:A:LEU:HD22	1:78:A:THR:HB	2	0.25
(1,6811)	1:136:A:GLY:H	1:135:A:THR:HG23	7	0.25
(1,6747)	1:133:A:ILE:HB	1:133:A:ILE:HD12	10	0.25
(1,6712)	1:131:A:LEU:H	1:131:A:LEU:HD21	10	0.25
(1,6706)	1:131:A:LEU:HD21	1:72:A:ASN:HD21	2	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6658)	1:129:A:ALA:HB3	1:130:A:PHE:HD1	1	0.25
(1,6657)	1:129:A:ALA:HB2	1:130:A:PHE:HA	3	0.25
(1,6657)	1:129:A:ALA:HB2	1:130:A:PHE:HA	10	0.25
(1,6656)	1:130:A:PHE:H	1:129:A:ALA:HB1	2	0.25
(1,6656)	1:130:A:PHE:H	1:129:A:ALA:HB2	5	0.25
(1,6644)	1:129:A:ALA:HB2	1:91:A:LEU:HA	2	0.25
(1,6538)	1:119:A:ASP:HB2	1:120:A:ASP:H	2	0.25
(1,6506)	1:116:A:THR:HA	1:117:A:ASP:HB2	6	0.25
(1,6413)	1:111:A:THR:HG23	1:104:A:TRP:HD1	6	0.25
(1,6284)	1:100:A:ALA:HB2	1:97:A:THR:HB	10	0.25
(1,6208)	1:93:A:MET:HB2	1:91:A:LEU:HD13	3	0.25
(1,6191)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	9	0.25
(1,6113)	1:90:A:LEU:HD22	1:90:A:LEU:HD23	1	0.25
(1,6113)	1:90:A:LEU:HD22	1:90:A:LEU:HD21	2	0.25
(1,6113)	1:90:A:LEU:HD21	1:90:A:LEU:HD23	3	0.25
(1,6113)	1:90:A:LEU:HD22	1:90:A:LEU:HD21	4	0.25
(1,6113)	1:90:A:LEU:HD21	1:90:A:LEU:HD23	6	0.25
(1,6113)	1:90:A:LEU:HD22	1:90:A:LEU:HD21	7	0.25
(1,6113)	1:90:A:LEU:HD22	1:90:A:LEU:HD23	8	0.25
(1,6113)	1:90:A:LEU:HD22	1:90:A:LEU:HD23	10	0.25
(1,6053)	1:89:A:ILE:HG13	1:90:A:LEU:HA	6	0.25
(1,6045)	1:89:A:ILE:HD11	1:88:A:ASP:HB3	2	0.25
(1,5940)	1:82:A:GLN:HG2	1:78:A:THR:HG21	3	0.25
(1,5867)	1:79:A:LEU:HD23	1:76:A:LEU:HA	5	0.25
(1,5867)	1:79:A:LEU:HD21	1:76:A:LEU:HA	8	0.25
(1,5867)	1:79:A:LEU:HD22	1:76:A:LEU:HA	9	0.25
(1,5864)	1:79:A:LEU:HB3	1:79:A:LEU:HD23	1	0.25
(1,5855)	1:79:A:LEU:HD12	1:79:A:LEU:HD13	1	0.25
(1,5855)	1:79:A:LEU:HD12	1:79:A:LEU:HD13	4	0.25
(1,5771)	1:76:A:LEU:HD11	1:89:A:ILE:H	1	0.25
(1,5749)	1:75:A:ILE:HG21	1:75:A:ILE:HG23	3	0.25
(1,5749)	1:75:A:ILE:HG22	1:75:A:ILE:HG21	5	0.25
(1,5749)	1:75:A:ILE:HG22	1:75:A:ILE:HG21	7	0.25
(1,5749)	1:75:A:ILE:HG22	1:75:A:ILE:HG23	10	0.25
(1,5744)	1:75:A:ILE:HG21	1:65:A:SER:H	5	0.25
(1,5565)	1:66:A:ILE:HG23	1:113:A:ASP:HA	3	0.25
(1,5558)	1:66:A:ILE:HG13	1:66:A:ILE:HG21	3	0.25
(1,5558)	1:66:A:ILE:HG13	1:66:A:ILE:HG21	9	0.25
(1,5549)	1:66:A:ILE:HD11	1:92:A:GLY:H	8	0.25
(1,5487)	1:64:A:ILE:HD12	1:91:A:LEU:HD22	4	0.25
(1,5473)	1:64:A:ILE:HD12	1:130:A:PHE:HA	8	0.25
(1,5444)	1:63:A:MET:HE3	1:91:A:LEU:HA	10	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5440)	1:63:A:MET:HE3	1:49:A:ILE:HD13	1	0.25
(1,5421)	1:61:A:ALA:HB2	1:155:A:THR:HA	5	0.25
(1,5305)	1:52:A:VAL:HG12	1:55:A:GLN:HE22	2	0.25
(1,5280)	1:50:A:GLU:HG3	1:49:A:ILE:HG23	7	0.25
(1,5184)	1:51:A:ASP:H	1:46:A:VAL:HG22	5	0.25
(1,5064)	1:40:A:LEU:HD11	1:40:A:LEU:HD13	2	0.25
(1,5064)	1:40:A:LEU:HD11	1:40:A:LEU:HD13	5	0.25
(1,5064)	1:40:A:LEU:HD12	1:40:A:LEU:HD13	7	0.25
(1,5064)	1:40:A:LEU:HD12	1:40:A:LEU:HD11	10	0.25
(1,5045)	1:40:A:LEU:HB2	1:38:A:ILE:HD13	10	0.25
(1,4997)	1:38:A:ILE:H	1:38:A:ILE:HD13	9	0.25
(1,4992)	1:28:A:THR:HA	1:38:A:ILE:HD12	2	0.25
(1,4873)	1:31:A:GLN:H	1:30:A:ILE:HG23	1	0.25
(1,4732)	1:66:A:ILE:H	1:154:A:LYS:HE3	6	0.25
(1,4727)	1:48:A:SER:H	1:45:A:LYS:HG3	1	0.25
(1,4705)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	9	0.25
(1,4699)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	2	0.25
(1,4699)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	7	0.25
(1,4651)	1:86:A:PRO:HD3	1:133:A:ILE:HD11	10	0.25
(1,4643)	1:78:A:THR:HB	1:81:A:LYS:HB2	9	0.25
(1,4625)	1:66:A:ILE:HD11	1:136:A:GLY:HA2	2	0.25
(1,4553)	1:66:A:ILE:H	1:154:A:LYS:HE3	6	0.25
(1,4548)	1:48:A:SER:H	1:45:A:LYS:HG3	1	0.25
(1,4526)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	9	0.25
(1,4520)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	2	0.25
(1,4520)	1:94:A:PHE:HD1	1:103:A:LYS:HB3	7	0.25
(1,4472)	1:86:A:PRO:HD3	1:133:A:ILE:HD11	10	0.25
(1,4464)	1:78:A:THR:HB	1:81:A:LYS:HB2	9	0.25
(1,4446)	1:66:A:ILE:HD11	1:136:A:GLY:HA2	2	0.25
(1,4377)	1:156:A:ALA:H	1:155:A:THR:HG23	6	0.25
(1,4241)	1:142:A:ASN:HD21	1:127:A:THR:HG22	6	0.25
(1,4054)	1:129:A:ALA:H	1:91:A:LEU:HD21	6	0.25
(1,3887)	1:109:A:ASN:H	1:109:A:ASN:HB2	7	0.25
(1,3609)	1:82:A:GLN:HE21	1:78:A:THR:HG23	8	0.25
(1,3590)	1:81:A:LYS:H	1:81:A:LYS:HB2	1	0.25
(1,3569)	1:78:A:THR:H	1:79:A:LEU:HD23	4	0.25
(1,3504)	1:73:A:ALA:H	1:76:A:LEU:HD13	10	0.25
(1,3448)	1:70:A:GLU:H	1:70:A:GLU:HB3	3	0.25
(1,2825)	1:131:A:LEU:HD23	1:138:A:TRP:HD1	4	0.25
(1,2585)	1:59:A:HIS:HD2	1:38:A:ILE:HD11	8	0.25
(1,2561)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	10	0.25
(1,2446)	1:157:A:ILE:HG21	1:158:A:PRO:HD3	4	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2390)	1:61:A:ALA:HB1	1:155:A:THR:HG23	3	0.25
(1,2330)	1:152:A:LEU:HD13	1:153:A:CYS:HA	7	0.25
(1,2316)	1:152:A:LEU:HD22	1:78:A:THR:HB	2	0.25
(1,2044)	1:136:A:GLY:H	1:135:A:THR:HG23	7	0.25
(1,1980)	1:133:A:ILE:HB	1:133:A:ILE:HD12	10	0.25
(1,1945)	1:131:A:LEU:H	1:131:A:LEU:HD21	10	0.25
(1,1939)	1:131:A:LEU:HD21	1:72:A:ASN:HD21	2	0.25
(1,1891)	1:129:A:ALA:HB3	1:130:A:PHE:HD1	1	0.25
(1,1890)	1:129:A:ALA:HB2	1:130:A:PHE:HA	3	0.25
(1,1890)	1:129:A:ALA:HB2	1:130:A:PHE:HA	10	0.25
(1,1889)	1:130:A:PHE:H	1:129:A:ALA:HB1	2	0.25
(1,1889)	1:130:A:PHE:H	1:129:A:ALA:HB2	5	0.25
(1,1877)	1:129:A:ALA:HB2	1:91:A:LEU:HA	2	0.25
(1,1771)	1:119:A:ASP:HB2	1:120:A:ASP:H	2	0.25
(1,1739)	1:116:A:THR:HA	1:117:A:ASP:HB2	6	0.25
(1,1646)	1:111:A:THR:HG23	1:104:A:TRP:HD1	6	0.25
(1,1517)	1:100:A:ALA:HB2	1:97:A:THR:HB	10	0.25
(1,1441)	1:93:A:MET:HB2	1:91:A:LEU:HD13	3	0.25
(1,1424)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	9	0.25
(1,1346)	1:90:A:LEU:HD22	1:90:A:LEU:HD23	1	0.25
(1,1346)	1:90:A:LEU:HD22	1:90:A:LEU:HD21	2	0.25
(1,1346)	1:90:A:LEU:HD21	1:90:A:LEU:HD23	3	0.25
(1,1346)	1:90:A:LEU:HD22	1:90:A:LEU:HD21	4	0.25
(1,1346)	1:90:A:LEU:HD21	1:90:A:LEU:HD23	6	0.25
(1,1346)	1:90:A:LEU:HD22	1:90:A:LEU:HD21	7	0.25
(1,1346)	1:90:A:LEU:HD22	1:90:A:LEU:HD23	8	0.25
(1,1346)	1:90:A:LEU:HD22	1:90:A:LEU:HD23	10	0.25
(1,1286)	1:89:A:ILE:HG13	1:90:A:LEU:HA	6	0.25
(1,1278)	1:89:A:ILE:HD11	1:88:A:ASP:HB3	2	0.25
(1,1173)	1:82:A:GLN:HG2	1:78:A:THR:HG21	3	0.25
(1,1100)	1:79:A:LEU:HD23	1:76:A:LEU:HA	5	0.25
(1,1100)	1:79:A:LEU:HD21	1:76:A:LEU:HA	8	0.25
(1,1100)	1:79:A:LEU:HD22	1:76:A:LEU:HA	9	0.25
(1,1097)	1:79:A:LEU:HB3	1:79:A:LEU:HD23	1	0.25
(1,1088)	1:79:A:LEU:HD12	1:79:A:LEU:HD13	1	0.25
(1,1088)	1:79:A:LEU:HD12	1:79:A:LEU:HD13	4	0.25
(1,1004)	1:76:A:LEU:HD11	1:89:A:ILE:H	1	0.25
(1,982)	1:75:A:ILE:HG21	1:75:A:ILE:HG23	3	0.25
(1,982)	1:75:A:ILE:HG22	1:75:A:ILE:HG21	5	0.25
(1,982)	1:75:A:ILE:HG22	1:75:A:ILE:HG21	7	0.25
(1,982)	1:75:A:ILE:HG22	1:75:A:ILE:HG23	10	0.25
(1,977)	1:75:A:ILE:HG21	1:65:A:SER:H	5	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,798)	1:66:A:ILE:HG23	1:113:A:ASP:HA	3	0.25
(1,791)	1:66:A:ILE:HG13	1:66:A:ILE:HG21	3	0.25
(1,791)	1:66:A:ILE:HG13	1:66:A:ILE:HG21	9	0.25
(1,782)	1:66:A:ILE:HD11	1:92:A:GLY:H	8	0.25
(1,720)	1:64:A:ILE:HD12	1:91:A:LEU:HD22	4	0.25
(1,706)	1:64:A:ILE:HD12	1:130:A:PHE:HA	8	0.25
(1,677)	1:63:A:MET:HE3	1:91:A:LEU:HA	10	0.25
(1,673)	1:63:A:MET:HE3	1:49:A:ILE:HD13	1	0.25
(1,654)	1:61:A:ALA:HB2	1:155:A:THR:HA	5	0.25
(1,538)	1:52:A:VAL:HG12	1:55:A:GLN:HE22	2	0.25
(1,513)	1:50:A:GLU:HG3	1:49:A:ILE:HG23	7	0.25
(1,417)	1:51:A:ASP:H	1:46:A:VAL:HG22	5	0.25
(1,297)	1:40:A:LEU:HD11	1:40:A:LEU:HD13	2	0.25
(1,297)	1:40:A:LEU:HD11	1:40:A:LEU:HD13	5	0.25
(1,297)	1:40:A:LEU:HD12	1:40:A:LEU:HD13	7	0.25
(1,297)	1:40:A:LEU:HD12	1:40:A:LEU:HD11	10	0.25
(1,278)	1:40:A:LEU:HB2	1:38:A:ILE:HD13	10	0.25
(1,230)	1:38:A:ILE:H	1:38:A:ILE:HD13	9	0.25
(1,225)	1:28:A:THR:HA	1:38:A:ILE:HD12	2	0.25
(1,106)	1:31:A:GLN:H	1:30:A:ILE:HG23	1	0.25
(1,9012)	1:142:A:ASN:HD22	1:124:A:LEU:HD21	2	0.24
(1,8903)	1:136:A:GLY:H	1:131:A:LEU:HD12	1	0.24
(1,8666)	1:110:A:MET:H	1:103:A:LYS:HG2	4	0.24
(1,8464)	1:92:A:GLY:H	1:91:A:LEU:HB2	3	0.24
(1,8390)	1:83:A:TRP:HE1	1:79:A:LEU:HD12	6	0.24
(1,8376)	1:82:A:GLN:HE21	1:78:A:THR:HG23	1	0.24
(1,8374)	1:82:A:GLN:HE22	1:30:A:ILE:HG22	8	0.24
(1,8357)	1:81:A:LYS:H	1:81:A:LYS:HB2	2	0.24
(1,8334)	1:78:A:THR:H	1:78:A:THR:HG21	1	0.24
(1,8334)	1:78:A:THR:H	1:78:A:THR:HG21	6	0.24
(1,8334)	1:78:A:THR:H	1:78:A:THR:HG21	8	0.24
(1,8314)	1:77:A:ASP:H	1:78:A:THR:HG21	1	0.24
(1,8264)	1:72:A:ASN:HD21	1:131:A:LEU:HD12	7	0.24
(1,8215)	1:70:A:GLU:H	1:70:A:GLU:HB3	8	0.24
(1,8210)	1:70:A:GLU:H	1:68:A:ASN:HB3	3	0.24
(1,8127)	1:62:A:ASP:H	1:155:A:THR:HG23	7	0.24
(1,8127)	1:62:A:ASP:H	1:155:A:THR:HG21	8	0.24
(1,7540)	1:129:A:ALA:HB1	1:115:A:TRP:HH2	5	0.24
(1,7453)	1:124:A:LEU:HD21	1:95:A:TYR:HE1	9	0.24
(1,7435)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	5	0.24
(1,7352)	1:59:A:HIS:HD2	1:38:A:ILE:HD11	2	0.24
(1,7341)	1:37:A:TYR:HE1	1:154:A:LYS:HE2	4	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7328)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	5	0.24
(1,7171)	1:156:A:ALA:HB2	1:154:A:LYS:HE2	9	0.24
(1,7058)	1:37:A:TYR:HB2	1:152:A:LEU:HD13	1	0.24
(1,7058)	1:37:A:TYR:HB2	1:152:A:LEU:HD12	6	0.24
(1,7013)	1:149:A:GLU:HA	1:43:A:ALA:HB1	1	0.24
(1,6983)	1:145:A:VAL:HG22	1:147:A:SER:HA	3	0.24
(1,6911)	1:140:A:LYS:HD2	1:124:A:LEU:HD13	10	0.24
(1,6747)	1:133:A:ILE:HB	1:133:A:ILE:HD12	1	0.24
(1,6747)	1:133:A:ILE:HB	1:133:A:ILE:HD12	3	0.24
(1,6712)	1:131:A:LEU:H	1:131:A:LEU:HD21	9	0.24
(1,6694)	1:131:A:LEU:HD12	1:138:A:TRP:H	9	0.24
(1,6694)	1:131:A:LEU:HD11	1:138:A:TRP:H	10	0.24
(1,6686)	1:131:A:LEU:HB3	1:131:A:LEU:HD11	9	0.24
(1,6650)	1:129:A:ALA:HB1	1:104:A:TRP:HH2	9	0.24
(1,6621)	1:128:A:CYS:H	1:127:A:THR:HG22	9	0.24
(1,6621)	1:128:A:CYS:H	1:127:A:THR:HG21	10	0.24
(1,6601)	1:142:A:ASN:HD21	1:125:A:VAL:HG23	7	0.24
(1,6538)	1:119:A:ASP:HB2	1:120:A:ASP:H	8	0.24
(1,6536)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	5	0.24
(1,6522)	1:116:A:THR:HG23	1:139:A:LYS:HA	4	0.24
(1,6506)	1:116:A:THR:HA	1:117:A:ASP:HB2	5	0.24
(1,6506)	1:116:A:THR:HA	1:117:A:ASP:HB2	9	0.24
(1,6263)	1:96:A:ASP:H	1:97:A:THR:HG22	9	0.24
(1,6174)	1:91:A:LEU:HA	1:91:A:LEU:HD22	2	0.24
(1,6174)	1:91:A:LEU:HA	1:91:A:LEU:HD21	6	0.24
(1,6113)	1:90:A:LEU:HD21	1:90:A:LEU:HD23	5	0.24
(1,6113)	1:90:A:LEU:HD22	1:90:A:LEU:HD21	9	0.24
(1,6109)	1:90:A:LEU:HD23	1:63:A:MET:HB3	1	0.24
(1,6045)	1:89:A:ILE:HD12	1:88:A:ASP:HB3	7	0.24
(1,5978)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	3	0.24
(1,5909)	1:81:A:LYS:HA	1:81:A:LYS:HG2	1	0.24
(1,5909)	1:81:A:LYS:HA	1:81:A:LYS:HG2	2	0.24
(1,5909)	1:81:A:LYS:HA	1:81:A:LYS:HG2	8	0.24
(1,5867)	1:79:A:LEU:HD21	1:76:A:LEU:HA	7	0.24
(1,5855)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	2	0.24
(1,5855)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	3	0.24
(1,5855)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	5	0.24
(1,5855)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	6	0.24
(1,5855)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	7	0.24
(1,5855)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	8	0.24
(1,5855)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	9	0.24
(1,5855)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	10	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5826)	1:78:A:THR:HG23	1:82:A:GLN:HA	8	0.24
(1,5801)	1:77:A:ASP:HA	1:80:A:LYS:HB2	7	0.24
(1,5749)	1:75:A:ILE:HG22	1:75:A:ILE:HG21	1	0.24
(1,5749)	1:75:A:ILE:HG21	1:75:A:ILE:HG23	4	0.24
(1,5749)	1:75:A:ILE:HG22	1:75:A:ILE:HG23	6	0.24
(1,5749)	1:75:A:ILE:HG21	1:75:A:ILE:HG23	8	0.24
(1,5739)	1:75:A:ILE:HG22	1:79:A:LEU:H	8	0.24
(1,5739)	1:75:A:ILE:HG21	1:79:A:LEU:H	10	0.24
(1,5576)	1:66:A:ILE:HG21	1:91:A:LEU:HD22	3	0.24
(1,5571)	1:66:A:ILE:HG21	1:71:A:GLU:HG3	6	0.24
(1,5565)	1:66:A:ILE:HG21	1:113:A:ASP:HA	10	0.24
(1,5558)	1:66:A:ILE:HG13	1:66:A:ILE:HG21	2	0.24
(1,5558)	1:66:A:ILE:HG13	1:66:A:ILE:HG21	7	0.24
(1,5474)	1:64:A:ILE:HD13	1:152:A:LEU:HA	9	0.24
(1,5460)	1:63:A:MET:HG2	1:64:A:ILE:HG21	10	0.24
(1,5444)	1:63:A:MET:HE2	1:91:A:LEU:HA	1	0.24
(1,5440)	1:63:A:MET:HE1	1:49:A:ILE:HD13	2	0.24
(1,5440)	1:63:A:MET:HE1	1:49:A:ILE:HD11	3	0.24
(1,5440)	1:63:A:MET:HE3	1:49:A:ILE:HD11	5	0.24
(1,5440)	1:63:A:MET:HE2	1:49:A:ILE:HD12	8	0.24
(1,5413)	1:61:A:ALA:HB2	1:56:A:CYS:H	7	0.24
(1,5386)	1:57:A:THR:HG22	1:61:A:ALA:H	6	0.24
(1,5317)	1:52:A:VAL:HG22	1:63:A:MET:HG2	3	0.24
(1,5305)	1:52:A:VAL:HG11	1:55:A:GLN:HE22	1	0.24
(1,5246)	1:49:A:ILE:HG12	1:90:A:LEU:HD12	1	0.24
(1,5183)	1:46:A:VAL:HG11	1:148:A:VAL:HG21	8	0.24
(1,5136)	1:44:A:ILE:HD11	1:44:A:ILE:HG12	2	0.24
(1,5136)	1:44:A:ILE:HD12	1:44:A:ILE:HG12	3	0.24
(1,5136)	1:44:A:ILE:HD12	1:44:A:ILE:HG12	6	0.24
(1,5136)	1:44:A:ILE:HD11	1:44:A:ILE:HG12	7	0.24
(1,5136)	1:44:A:ILE:HD11	1:44:A:ILE:HG12	8	0.24
(1,5136)	1:44:A:ILE:HD13	1:44:A:ILE:HG12	10	0.24
(1,5064)	1:40:A:LEU:HD12	1:40:A:LEU:HD11	1	0.24
(1,5064)	1:40:A:LEU:HD12	1:40:A:LEU:HD13	3	0.24
(1,5064)	1:40:A:LEU:HD12	1:40:A:LEU:HD13	4	0.24
(1,5064)	1:40:A:LEU:HD12	1:40:A:LEU:HD11	6	0.24
(1,5064)	1:40:A:LEU:HD12	1:40:A:LEU:HD13	8	0.24
(1,5064)	1:40:A:LEU:HD12	1:40:A:LEU:HD11	9	0.24
(1,5005)	1:40:A:LEU:H	1:38:A:ILE:HD11	8	0.24
(1,5004)	1:39:A:PHE:H	1:38:A:ILE:HD11	1	0.24
(1,4890)	1:31:A:GLN:HB2	1:157:A:ILE:HD11	6	0.24
(1,4761)	1:138:A:TRP:H	1:114:A:LYS:HE3	6	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4761)	1:138:A:TRP:H	1:115:A:TRP:HB2	7	0.24
(1,4705)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	5	0.24
(1,4682)	1:152:A:LEU:HD12	1:79:A:LEU:H	4	0.24
(1,4582)	1:138:A:TRP:H	1:114:A:LYS:HE3	6	0.24
(1,4582)	1:138:A:TRP:H	1:115:A:TRP:HB2	7	0.24
(1,4526)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	5	0.24
(1,4503)	1:152:A:LEU:HD12	1:79:A:LEU:H	4	0.24
(1,4245)	1:142:A:ASN:HD22	1:124:A:LEU:HD21	2	0.24
(1,4136)	1:136:A:GLY:H	1:131:A:LEU:HD12	1	0.24
(1,3899)	1:110:A:MET:H	1:103:A:LYS:HG2	4	0.24
(1,3697)	1:92:A:GLY:H	1:91:A:LEU:HB2	3	0.24
(1,3623)	1:83:A:TRP:HE1	1:79:A:LEU:HD12	6	0.24
(1,3609)	1:82:A:GLN:HE21	1:78:A:THR:HG23	1	0.24
(1,3607)	1:82:A:GLN:HE22	1:30:A:ILE:HG22	8	0.24
(1,3590)	1:81:A:LYS:H	1:81:A:LYS:HB2	2	0.24
(1,3567)	1:78:A:THR:H	1:78:A:THR:HG21	1	0.24
(1,3567)	1:78:A:THR:H	1:78:A:THR:HG21	6	0.24
(1,3567)	1:78:A:THR:H	1:78:A:THR:HG21	8	0.24
(1,3547)	1:77:A:ASP:H	1:78:A:THR:HG21	1	0.24
(1,3497)	1:72:A:ASN:HD21	1:131:A:LEU:HD12	7	0.24
(1,3448)	1:70:A:GLU:H	1:70:A:GLU:HB3	8	0.24
(1,3443)	1:70:A:GLU:H	1:68:A:ASN:HB3	3	0.24
(1,3360)	1:62:A:ASP:H	1:155:A:THR:HG23	7	0.24
(1,3360)	1:62:A:ASP:H	1:155:A:THR:HG21	8	0.24
(1,2773)	1:129:A:ALA:HB1	1:115:A:TRP:HH2	5	0.24
(1,2686)	1:124:A:LEU:HD21	1:95:A:TYR:HE1	9	0.24
(1,2668)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	5	0.24
(1,2585)	1:59:A:HIS:HD2	1:38:A:ILE:HD11	2	0.24
(1,2574)	1:37:A:TYR:HE1	1:154:A:LYS:HE2	4	0.24
(1,2561)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	5	0.24
(1,2404)	1:156:A:ALA:HB2	1:154:A:LYS:HE2	9	0.24
(1,2291)	1:37:A:TYR:HB2	1:152:A:LEU:HD13	1	0.24
(1,2291)	1:37:A:TYR:HB2	1:152:A:LEU:HD12	6	0.24
(1,2246)	1:149:A:GLU:HA	1:43:A:ALA:HB1	1	0.24
(1,2216)	1:145:A:VAL:HG22	1:147:A:SER:HA	3	0.24
(1,2144)	1:140:A:LYS:HD2	1:124:A:LEU:HD13	10	0.24
(1,1980)	1:133:A:ILE:HB	1:133:A:ILE:HD12	1	0.24
(1,1980)	1:133:A:ILE:HB	1:133:A:ILE:HD12	3	0.24
(1,1945)	1:131:A:LEU:H	1:131:A:LEU:HD21	9	0.24
(1,1927)	1:131:A:LEU:HD12	1:138:A:TRP:H	9	0.24
(1,1927)	1:131:A:LEU:HD11	1:138:A:TRP:H	10	0.24
(1,1919)	1:131:A:LEU:HB3	1:131:A:LEU:HD11	9	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1883)	1:129:A:ALA:HB1	1:104:A:TRP:HH2	9	0.24
(1,1854)	1:128:A:CYS:H	1:127:A:THR:HG22	9	0.24
(1,1854)	1:128:A:CYS:H	1:127:A:THR:HG21	10	0.24
(1,1834)	1:142:A:ASN:HD21	1:125:A:VAL:HG23	7	0.24
(1,1771)	1:119:A:ASP:HB2	1:120:A:ASP:H	8	0.24
(1,1769)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	5	0.24
(1,1755)	1:116:A:THR:HG23	1:139:A:LYS:HA	4	0.24
(1,1739)	1:116:A:THR:HA	1:117:A:ASP:HB2	5	0.24
(1,1739)	1:116:A:THR:HA	1:117:A:ASP:HB2	9	0.24
(1,1496)	1:96:A:ASP:H	1:97:A:THR:HG22	9	0.24
(1,1407)	1:91:A:LEU:HA	1:91:A:LEU:HD22	2	0.24
(1,1407)	1:91:A:LEU:HA	1:91:A:LEU:HD21	6	0.24
(1,1346)	1:90:A:LEU:HD21	1:90:A:LEU:HD23	5	0.24
(1,1346)	1:90:A:LEU:HD22	1:90:A:LEU:HD21	9	0.24
(1,1342)	1:90:A:LEU:HD23	1:63:A:MET:HB3	1	0.24
(1,1278)	1:89:A:ILE:HD12	1:88:A:ASP:HB3	7	0.24
(1,1211)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	3	0.24
(1,1142)	1:81:A:LYS:HA	1:81:A:LYS:HG2	1	0.24
(1,1142)	1:81:A:LYS:HA	1:81:A:LYS:HG2	2	0.24
(1,1142)	1:81:A:LYS:HA	1:81:A:LYS:HG2	8	0.24
(1,1100)	1:79:A:LEU:HD21	1:76:A:LEU:HA	7	0.24
(1,1088)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	2	0.24
(1,1088)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	3	0.24
(1,1088)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	5	0.24
(1,1088)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	6	0.24
(1,1088)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	7	0.24
(1,1088)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	8	0.24
(1,1088)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	9	0.24
(1,1088)	1:79:A:LEU:HD12	1:79:A:LEU:HD11	10	0.24
(1,1059)	1:78:A:THR:HG23	1:82:A:GLN:HA	8	0.24
(1,1034)	1:77:A:ASP:HA	1:80:A:LYS:HB2	7	0.24
(1,982)	1:75:A:ILE:HG22	1:75:A:ILE:HG21	1	0.24
(1,982)	1:75:A:ILE:HG21	1:75:A:ILE:HG23	4	0.24
(1,982)	1:75:A:ILE:HG22	1:75:A:ILE:HG23	6	0.24
(1,982)	1:75:A:ILE:HG21	1:75:A:ILE:HG23	8	0.24
(1,972)	1:75:A:ILE:HG22	1:79:A:LEU:H	8	0.24
(1,972)	1:75:A:ILE:HG21	1:79:A:LEU:H	10	0.24
(1,809)	1:66:A:ILE:HG21	1:91:A:LEU:HD22	3	0.24
(1,804)	1:66:A:ILE:HG21	1:71:A:GLU:HG3	6	0.24
(1,798)	1:66:A:ILE:HG21	1:113:A:ASP:HA	10	0.24
(1,791)	1:66:A:ILE:HG13	1:66:A:ILE:HG21	2	0.24
(1,791)	1:66:A:ILE:HG13	1:66:A:ILE:HG21	7	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,707)	1:64:A:ILE:HD13	1:152:A:LEU:HA	9	0.24
(1,693)	1:63:A:MET:HG2	1:64:A:ILE:HG21	10	0.24
(1,677)	1:63:A:MET:HE2	1:91:A:LEU:HA	1	0.24
(1,673)	1:63:A:MET:HE1	1:49:A:ILE:HD13	2	0.24
(1,673)	1:63:A:MET:HE1	1:49:A:ILE:HD11	3	0.24
(1,673)	1:63:A:MET:HE3	1:49:A:ILE:HD11	5	0.24
(1,673)	1:63:A:MET:HE2	1:49:A:ILE:HD12	8	0.24
(1,646)	1:61:A:ALA:HB2	1:56:A:CYS:H	7	0.24
(1,619)	1:57:A:THR:HG22	1:61:A:ALA:H	6	0.24
(1,550)	1:52:A:VAL:HG22	1:63:A:MET:HG2	3	0.24
(1,538)	1:52:A:VAL:HG11	1:55:A:GLN:HE22	1	0.24
(1,479)	1:49:A:ILE:HG12	1:90:A:LEU:HD12	1	0.24
(1,416)	1:46:A:VAL:HG11	1:148:A:VAL:HG21	8	0.24
(1,369)	1:44:A:ILE:HD11	1:44:A:ILE:HG12	2	0.24
(1,369)	1:44:A:ILE:HD12	1:44:A:ILE:HG12	3	0.24
(1,369)	1:44:A:ILE:HD12	1:44:A:ILE:HG12	6	0.24
(1,369)	1:44:A:ILE:HD11	1:44:A:ILE:HG12	7	0.24
(1,369)	1:44:A:ILE:HD11	1:44:A:ILE:HG12	8	0.24
(1,369)	1:44:A:ILE:HD13	1:44:A:ILE:HG12	10	0.24
(1,297)	1:40:A:LEU:HD12	1:40:A:LEU:HD11	1	0.24
(1,297)	1:40:A:LEU:HD12	1:40:A:LEU:HD13	3	0.24
(1,297)	1:40:A:LEU:HD12	1:40:A:LEU:HD13	4	0.24
(1,297)	1:40:A:LEU:HD12	1:40:A:LEU:HD11	6	0.24
(1,297)	1:40:A:LEU:HD12	1:40:A:LEU:HD13	8	0.24
(1,297)	1:40:A:LEU:HD12	1:40:A:LEU:HD11	9	0.24
(1,238)	1:40:A:LEU:H	1:38:A:ILE:HD11	8	0.24
(1,237)	1:39:A:PHE:H	1:38:A:ILE:HD11	1	0.24
(1,123)	1:31:A:GLN:HB2	1:157:A:ILE:HD11	6	0.24
(1,9012)	1:142:A:ASN:HD22	1:124:A:LEU:HD23	9	0.23
(1,8873)	1:133:A:ILE:H	1:133:A:ILE:HG22	2	0.23
(1,8654)	1:109:A:ASN:H	1:109:A:ASN:HB2	9	0.23
(1,8464)	1:92:A:GLY:H	1:91:A:LEU:HB2	9	0.23
(1,8335)	1:78:A:THR:H	1:79:A:LEU:HB3	3	0.23
(1,8334)	1:78:A:THR:H	1:78:A:THR:HG23	5	0.23
(1,8334)	1:78:A:THR:H	1:78:A:THR:HG23	7	0.23
(1,8334)	1:78:A:THR:H	1:78:A:THR:HG23	10	0.23
(1,8291)	1:75:A:ILE:H	1:32:A:PHE:HD2	4	0.23
(1,8289)	1:75:A:ILE:H	1:76:A:LEU:HB3	2	0.23
(1,8289)	1:75:A:ILE:H	1:76:A:LEU:HB3	4	0.23
(1,8289)	1:75:A:ILE:H	1:76:A:LEU:HB3	8	0.23
(1,8271)	1:73:A:ALA:H	1:76:A:LEU:HD13	1	0.23
(1,8271)	1:73:A:ALA:H	1:76:A:LEU:HD12	2	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8264)	1:72:A:ASN:HD21	1:131:A:LEU:HD13	4	0.23
(1,8034)	1:55:A:GLN:HE22	1:40:A:LEU:HD22	7	0.23
(1,8011)	1:55:A:GLN:H	1:53:A:ARG:HD2	4	0.23
(1,7954)	1:51:A:ASP:H	1:49:A:ILE:HG22	10	0.23
(1,7592)	1:131:A:LEU:HD21	1:138:A:TRP:HD1	5	0.23
(1,7566)	1:90:A:LEU:HD12	1:130:A:PHE:HD1	2	0.23
(1,7566)	1:90:A:LEU:HD11	1:130:A:PHE:HD1	7	0.23
(1,7435)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	10	0.23
(1,7328)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	1	0.23
(1,7328)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	2	0.23
(1,7328)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	6	0.23
(1,7268)	1:28:A:THR:HG22	1:29:A:TRP:HD1	1	0.23
(1,7202)	1:157:A:ILE:HG21	1:35:A:SER:H	3	0.23
(1,7170)	1:156:A:ALA:HA	1:157:A:ILE:HG22	10	0.23
(1,7097)	1:152:A:LEU:HD12	1:153:A:CYS:HA	2	0.23
(1,7097)	1:152:A:LEU:HD11	1:153:A:CYS:HA	5	0.23
(1,7079)	1:152:A:LEU:HD23	1:75:A:ILE:H	9	0.23
(1,7075)	1:152:A:LEU:HD13	1:153:A:CYS:HB2	4	0.23
(1,7058)	1:37:A:TYR:HB2	1:152:A:LEU:HD13	2	0.23
(1,7058)	1:37:A:TYR:HB2	1:152:A:LEU:HD11	3	0.23
(1,7058)	1:37:A:TYR:HB2	1:152:A:LEU:HD11	4	0.23
(1,7058)	1:37:A:TYR:HB2	1:152:A:LEU:HD12	5	0.23
(1,7058)	1:37:A:TYR:HB2	1:152:A:LEU:HD12	9	0.23
(1,6869)	1:127:A:THR:HG21	1:139:A:LYS:HB2	6	0.23
(1,6750)	1:133:A:ILE:HD11	1:80:A:LYS:HE2	8	0.23
(1,6712)	1:131:A:LEU:H	1:131:A:LEU:HD22	4	0.23
(1,6706)	1:131:A:LEU:HD22	1:72:A:ASN:HD21	8	0.23
(1,6695)	1:131:A:LEU:HD13	1:138:A:TRP:HA	8	0.23
(1,6686)	1:131:A:LEU:HB3	1:131:A:LEU:HD12	5	0.23
(1,6683)	1:131:A:LEU:HD12	1:91:A:LEU:HD23	2	0.23
(1,6657)	1:129:A:ALA:HB3	1:130:A:PHE:HA	1	0.23
(1,6657)	1:129:A:ALA:HB3	1:130:A:PHE:HA	5	0.23
(1,6657)	1:129:A:ALA:HB2	1:130:A:PHE:HA	9	0.23
(1,6656)	1:130:A:PHE:H	1:129:A:ALA:HB1	6	0.23
(1,6656)	1:130:A:PHE:H	1:129:A:ALA:HB1	9	0.23
(1,6651)	1:128:A:CYS:HA	1:129:A:ALA:HB3	2	0.23
(1,6651)	1:128:A:CYS:HA	1:129:A:ALA:HB1	5	0.23
(1,6651)	1:128:A:CYS:HA	1:129:A:ALA:HB3	9	0.23
(1,6650)	1:129:A:ALA:HB2	1:104:A:TRP:HH2	5	0.23
(1,6644)	1:129:A:ALA:HB2	1:91:A:LEU:HA	7	0.23
(1,6621)	1:128:A:CYS:H	1:127:A:THR:HG22	3	0.23
(1,6594)	1:97:A:THR:HG22	1:125:A:VAL:HB	8	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6536)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	6	0.23
(1,6334)	1:103:A:LYS:HD3	1:96:A:ASP:HA	7	0.23
(1,6334)	1:103:A:LYS:HD3	1:96:A:ASP:HA	9	0.23
(1,6191)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	10	0.23
(1,6174)	1:91:A:LEU:HA	1:91:A:LEU:HD22	10	0.23
(1,6109)	1:90:A:LEU:HD23	1:63:A:MET:HB3	8	0.23
(1,5983)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	3	0.23
(1,5909)	1:81:A:LYS:HA	1:81:A:LYS:HG2	4	0.23
(1,5909)	1:81:A:LYS:HA	1:81:A:LYS:HG2	6	0.23
(1,5828)	1:78:A:THR:HG21	1:37:A:TYR:HD1	5	0.23
(1,5813)	1:74:A:PHE:HA	1:77:A:ASP:HB3	5	0.23
(1,5813)	1:74:A:PHE:HA	1:77:A:ASP:HB3	7	0.23
(1,5801)	1:77:A:ASP:HA	1:80:A:LYS:HB2	3	0.23
(1,5801)	1:77:A:ASP:HA	1:80:A:LYS:HB2	9	0.23
(1,5788)	1:76:A:LEU:HD22	1:72:A:ASN:HB3	2	0.23
(1,5749)	1:75:A:ILE:HG21	1:75:A:ILE:HG23	2	0.23
(1,5739)	1:75:A:ILE:HG21	1:79:A:LEU:H	6	0.23
(1,5613)	1:69:A:GLU:HB3	1:73:A:ALA:HB3	2	0.23
(1,5571)	1:66:A:ILE:HG23	1:71:A:GLU:HG3	5	0.23
(1,5558)	1:66:A:ILE:HG13	1:66:A:ILE:HG21	1	0.23
(1,5549)	1:66:A:ILE:HD12	1:92:A:GLY:H	7	0.23
(1,5527)	1:66:A:ILE:HA	1:154:A:LYS:HD2	6	0.23
(1,5487)	1:64:A:ILE:HD13	1:91:A:LEU:HD21	5	0.23
(1,5474)	1:64:A:ILE:HD11	1:152:A:LEU:HA	6	0.23
(1,5460)	1:63:A:MET:HG2	1:64:A:ILE:HG23	5	0.23
(1,5440)	1:63:A:MET:HE1	1:49:A:ILE:HD11	6	0.23
(1,5405)	1:61:A:ALA:HA	1:155:A:THR:HG22	6	0.23
(1,5386)	1:57:A:THR:HG22	1:61:A:ALA:H	9	0.23
(1,5317)	1:52:A:VAL:HG21	1:63:A:MET:HG2	2	0.23
(1,5317)	1:52:A:VAL:HG21	1:63:A:MET:HG2	9	0.23
(1,5317)	1:52:A:VAL:HG21	1:63:A:MET:HG2	10	0.23
(1,5305)	1:52:A:VAL:HG11	1:55:A:GLN:HE22	5	0.23
(1,5235)	1:49:A:ILE:HD11	1:143:A:CYS:HA	7	0.23
(1,5206)	1:48:A:SER:HA	1:46:A:VAL:HG11	9	0.23
(1,5184)	1:51:A:ASP:H	1:46:A:VAL:HG21	2	0.23
(1,5184)	1:51:A:ASP:H	1:46:A:VAL:HG21	10	0.23
(1,5183)	1:46:A:VAL:HG12	1:148:A:VAL:HG22	3	0.23
(1,5148)	1:55:A:GLN:HE22	1:44:A:ILE:HG23	9	0.23
(1,5136)	1:44:A:ILE:HD12	1:44:A:ILE:HG12	1	0.23
(1,5136)	1:44:A:ILE:HD11	1:44:A:ILE:HG12	4	0.23
(1,5136)	1:44:A:ILE:HD11	1:44:A:ILE:HG12	5	0.23
(1,5136)	1:44:A:ILE:HD11	1:44:A:ILE:HG12	9	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5004)	1:39:A:PHE:H	1:38:A:ILE:HD11	6	0.23
(1,5004)	1:39:A:PHE:H	1:38:A:ILE:HD13	8	0.23
(1,4890)	1:31:A:GLN:HB2	1:157:A:ILE:HD13	7	0.23
(1,4732)	1:66:A:ILE:H	1:154:A:LYS:HE3	3	0.23
(1,4692)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	1	0.23
(1,4682)	1:152:A:LEU:HD11	1:79:A:LEU:H	2	0.23
(1,4679)	1:151:A:THR:HG23	1:56:A:CYS:HB3	6	0.23
(1,4654)	1:89:A:ILE:HG21	1:86:A:PRO:HB3	3	0.23
(1,4600)	1:49:A:ILE:HB	1:90:A:LEU:HD12	5	0.23
(1,4553)	1:66:A:ILE:H	1:154:A:LYS:HE3	3	0.23
(1,4513)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	1	0.23
(1,4503)	1:152:A:LEU:HD11	1:79:A:LEU:H	2	0.23
(1,4500)	1:151:A:THR:HG23	1:56:A:CYS:HB3	6	0.23
(1,4475)	1:89:A:ILE:HG21	1:86:A:PRO:HB3	3	0.23
(1,4421)	1:49:A:ILE:HB	1:90:A:LEU:HD12	5	0.23
(1,4245)	1:142:A:ASN:HD22	1:124:A:LEU:HD23	9	0.23
(1,4106)	1:133:A:ILE:H	1:133:A:ILE:HG22	2	0.23
(1,3887)	1:109:A:ASN:H	1:109:A:ASN:HB2	9	0.23
(1,3697)	1:92:A:GLY:H	1:91:A:LEU:HB2	9	0.23
(1,3568)	1:78:A:THR:H	1:79:A:LEU:HB3	3	0.23
(1,3567)	1:78:A:THR:H	1:78:A:THR:HG23	5	0.23
(1,3567)	1:78:A:THR:H	1:78:A:THR:HG23	7	0.23
(1,3567)	1:78:A:THR:H	1:78:A:THR:HG23	10	0.23
(1,3524)	1:75:A:ILE:H	1:32:A:PHE:HD2	4	0.23
(1,3522)	1:75:A:ILE:H	1:76:A:LEU:HB3	2	0.23
(1,3522)	1:75:A:ILE:H	1:76:A:LEU:HB3	4	0.23
(1,3522)	1:75:A:ILE:H	1:76:A:LEU:HB3	8	0.23
(1,3504)	1:73:A:ALA:H	1:76:A:LEU:HD13	1	0.23
(1,3504)	1:73:A:ALA:H	1:76:A:LEU:HD12	2	0.23
(1,3497)	1:72:A:ASN:HD21	1:131:A:LEU:HD13	4	0.23
(1,3267)	1:55:A:GLN:HE22	1:40:A:LEU:HD22	7	0.23
(1,3244)	1:55:A:GLN:H	1:53:A:ARG:HD2	4	0.23
(1,3187)	1:51:A:ASP:H	1:49:A:ILE:HG22	10	0.23
(1,2825)	1:131:A:LEU:HD21	1:138:A:TRP:HD1	5	0.23
(1,2799)	1:90:A:LEU:HD12	1:130:A:PHE:HD1	2	0.23
(1,2799)	1:90:A:LEU:HD11	1:130:A:PHE:HD1	7	0.23
(1,2668)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	10	0.23
(1,2561)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	1	0.23
(1,2561)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	2	0.23
(1,2561)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	6	0.23
(1,2501)	1:28:A:THR:HG22	1:29:A:TRP:HD1	1	0.23
(1,2435)	1:157:A:ILE:HG21	1:35:A:SER:H	3	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2403)	1:156:A:ALA:HA	1:157:A:ILE:HG22	10	0.23
(1,2330)	1:152:A:LEU:HD12	1:153:A:CYS:HA	2	0.23
(1,2330)	1:152:A:LEU:HD11	1:153:A:CYS:HA	5	0.23
(1,2312)	1:152:A:LEU:HD23	1:75:A:ILE:H	9	0.23
(1,2308)	1:152:A:LEU:HD13	1:153:A:CYS:HB2	4	0.23
(1,2291)	1:37:A:TYR:HB2	1:152:A:LEU:HD13	2	0.23
(1,2291)	1:37:A:TYR:HB2	1:152:A:LEU:HD11	3	0.23
(1,2291)	1:37:A:TYR:HB2	1:152:A:LEU:HD11	4	0.23
(1,2291)	1:37:A:TYR:HB2	1:152:A:LEU:HD12	5	0.23
(1,2291)	1:37:A:TYR:HB2	1:152:A:LEU:HD12	9	0.23
(1,2102)	1:127:A:THR:HG21	1:139:A:LYS:HB2	6	0.23
(1,1983)	1:133:A:ILE:HD11	1:80:A:LYS:HE2	8	0.23
(1,1945)	1:131:A:LEU:H	1:131:A:LEU:HD22	4	0.23
(1,1939)	1:131:A:LEU:HD22	1:72:A:ASN:HD21	8	0.23
(1,1928)	1:131:A:LEU:HD13	1:138:A:TRP:HA	8	0.23
(1,1919)	1:131:A:LEU:HB3	1:131:A:LEU:HD12	5	0.23
(1,1916)	1:131:A:LEU:HD12	1:91:A:LEU:HD23	2	0.23
(1,1890)	1:129:A:ALA:HB3	1:130:A:PHE:HA	1	0.23
(1,1890)	1:129:A:ALA:HB3	1:130:A:PHE:HA	5	0.23
(1,1890)	1:129:A:ALA:HB2	1:130:A:PHE:HA	9	0.23
(1,1889)	1:130:A:PHE:H	1:129:A:ALA:HB1	6	0.23
(1,1889)	1:130:A:PHE:H	1:129:A:ALA:HB1	9	0.23
(1,1884)	1:128:A:CYS:HA	1:129:A:ALA:HB3	2	0.23
(1,1884)	1:128:A:CYS:HA	1:129:A:ALA:HB1	5	0.23
(1,1884)	1:128:A:CYS:HA	1:129:A:ALA:HB3	9	0.23
(1,1883)	1:129:A:ALA:HB2	1:104:A:TRP:HH2	5	0.23
(1,1877)	1:129:A:ALA:HB2	1:91:A:LEU:HA	7	0.23
(1,1854)	1:128:A:CYS:H	1:127:A:THR:HG22	3	0.23
(1,1827)	1:97:A:THR:HG22	1:125:A:VAL:HB	8	0.23
(1,1769)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	6	0.23
(1,1567)	1:103:A:LYS:HD3	1:96:A:ASP:HA	7	0.23
(1,1567)	1:103:A:LYS:HD3	1:96:A:ASP:HA	9	0.23
(1,1424)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	10	0.23
(1,1407)	1:91:A:LEU:HA	1:91:A:LEU:HD22	10	0.23
(1,1342)	1:90:A:LEU:HD23	1:63:A:MET:HB3	8	0.23
(1,1216)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	3	0.23
(1,1142)	1:81:A:LYS:HA	1:81:A:LYS:HG2	4	0.23
(1,1142)	1:81:A:LYS:HA	1:81:A:LYS:HG2	6	0.23
(1,1061)	1:78:A:THR:HG21	1:37:A:TYR:HD1	5	0.23
(1,1046)	1:74:A:PHE:HA	1:77:A:ASP:HB3	5	0.23
(1,1046)	1:74:A:PHE:HA	1:77:A:ASP:HB3	7	0.23
(1,1034)	1:77:A:ASP:HA	1:80:A:LYS:HB2	3	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1034)	1:77:A:ASP:HA	1:80:A:LYS:HB2	9	0.23
(1,1021)	1:76:A:LEU:HD22	1:72:A:ASN:HB3	2	0.23
(1,982)	1:75:A:ILE:HG21	1:75:A:ILE:HG23	2	0.23
(1,972)	1:75:A:ILE:HG21	1:79:A:LEU:H	6	0.23
(1,846)	1:69:A:GLU:HB3	1:73:A:ALA:HB3	2	0.23
(1,804)	1:66:A:ILE:HG23	1:71:A:GLU:HG3	5	0.23
(1,791)	1:66:A:ILE:HG13	1:66:A:ILE:HG21	1	0.23
(1,782)	1:66:A:ILE:HD12	1:92:A:GLY:H	7	0.23
(1,760)	1:66:A:ILE:HA	1:154:A:LYS:HD2	6	0.23
(1,720)	1:64:A:ILE:HD13	1:91:A:LEU:HD21	5	0.23
(1,707)	1:64:A:ILE:HD11	1:152:A:LEU:HA	6	0.23
(1,693)	1:63:A:MET:HG2	1:64:A:ILE:HG23	5	0.23
(1,673)	1:63:A:MET:HE1	1:49:A:ILE:HD11	6	0.23
(1,638)	1:61:A:ALA:HA	1:155:A:THR:HG22	6	0.23
(1,619)	1:57:A:THR:HG22	1:61:A:ALA:H	9	0.23
(1,550)	1:52:A:VAL:HG21	1:63:A:MET:HG2	2	0.23
(1,550)	1:52:A:VAL:HG21	1:63:A:MET:HG2	9	0.23
(1,550)	1:52:A:VAL:HG21	1:63:A:MET:HG2	10	0.23
(1,538)	1:52:A:VAL:HG11	1:55:A:GLN:HE22	5	0.23
(1,468)	1:49:A:ILE:HD11	1:143:A:CYS:HA	7	0.23
(1,439)	1:48:A:SER:HA	1:46:A:VAL:HG11	9	0.23
(1,417)	1:51:A:ASP:H	1:46:A:VAL:HG21	2	0.23
(1,417)	1:51:A:ASP:H	1:46:A:VAL:HG21	10	0.23
(1,416)	1:46:A:VAL:HG12	1:148:A:VAL:HG22	3	0.23
(1,381)	1:55:A:GLN:HE22	1:44:A:ILE:HG23	9	0.23
(1,369)	1:44:A:ILE:HD12	1:44:A:ILE:HG12	1	0.23
(1,369)	1:44:A:ILE:HD11	1:44:A:ILE:HG12	4	0.23
(1,369)	1:44:A:ILE:HD11	1:44:A:ILE:HG12	5	0.23
(1,369)	1:44:A:ILE:HD11	1:44:A:ILE:HG12	9	0.23
(1,237)	1:39:A:PHE:H	1:38:A:ILE:HD11	6	0.23
(1,237)	1:39:A:PHE:H	1:38:A:ILE:HD13	8	0.23
(1,123)	1:31:A:GLN:HB2	1:157:A:ILE:HD13	7	0.23
(1,8983)	1:140:A:LYS:H	1:124:A:LEU:HD21	10	0.22
(1,8903)	1:136:A:GLY:H	1:131:A:LEU:HD11	6	0.22
(1,8873)	1:133:A:ILE:H	1:133:A:ILE:HG23	5	0.22
(1,8755)	1:118:A:GLN:HE22	1:139:A:LYS:H	2	0.22
(1,8559)	1:102:A:PHE:H	1:101:A:SER:HB2	2	0.22
(1,8464)	1:92:A:GLY:H	1:91:A:LEU:HB2	8	0.22
(1,8335)	1:78:A:THR:H	1:79:A:LEU:HB3	1	0.22
(1,8335)	1:78:A:THR:H	1:79:A:LEU:HB3	2	0.22
(1,8335)	1:78:A:THR:H	1:79:A:LEU:HB3	4	0.22
(1,8335)	1:78:A:THR:H	1:79:A:LEU:HB3	5	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8335)	1:78:A:THR:H	1:79:A:LEU:HB3	6	0.22
(1,8335)	1:78:A:THR:H	1:79:A:LEU:HB3	7	0.22
(1,8335)	1:78:A:THR:H	1:79:A:LEU:HB3	8	0.22
(1,8335)	1:78:A:THR:H	1:79:A:LEU:HB3	9	0.22
(1,8335)	1:78:A:THR:H	1:79:A:LEU:HB3	10	0.22
(1,8289)	1:75:A:ILE:H	1:76:A:LEU:HB3	1	0.22
(1,8034)	1:55:A:GLN:HE22	1:40:A:LEU:HD22	4	0.22
(1,8024)	1:55:A:GLN:HE21	1:44:A:ILE:HG23	6	0.22
(1,7974)	1:53:A:ARG:H	1:46:A:VAL:HG13	9	0.22
(1,7936)	1:50:A:GLU:H	1:49:A:ILE:HG13	2	0.22
(1,7936)	1:50:A:GLU:H	1:49:A:ILE:HG13	5	0.22
(1,7936)	1:50:A:GLU:H	1:49:A:ILE:HG13	6	0.22
(1,7592)	1:131:A:LEU:HD23	1:138:A:TRP:HD1	3	0.22
(1,7453)	1:124:A:LEU:HD21	1:95:A:TYR:HE1	4	0.22
(1,7435)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	2	0.22
(1,7435)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	3	0.22
(1,7435)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	4	0.22
(1,7435)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	6	0.22
(1,7435)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	7	0.22
(1,7328)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	3	0.22
(1,7206)	1:157:A:ILE:HG22	1:23:A:ASP:HA	8	0.22
(1,7170)	1:156:A:ALA:HA	1:157:A:ILE:HG21	7	0.22
(1,7097)	1:152:A:LEU:HD13	1:153:A:CYS:HA	4	0.22
(1,7097)	1:152:A:LEU:HD12	1:153:A:CYS:HA	10	0.22
(1,7058)	1:37:A:TYR:HB2	1:152:A:LEU:HD13	8	0.22
(1,7058)	1:37:A:TYR:HB2	1:152:A:LEU:HD13	10	0.22
(1,6698)	1:131:A:LEU:HD21	1:73:A:ALA:HA	2	0.22
(1,6695)	1:131:A:LEU:HD12	1:138:A:TRP:HA	4	0.22
(1,6694)	1:131:A:LEU:HD13	1:138:A:TRP:H	5	0.22
(1,6686)	1:131:A:LEU:HB3	1:131:A:LEU:HD11	3	0.22
(1,6686)	1:131:A:LEU:HB3	1:131:A:LEU:HD13	6	0.22
(1,6686)	1:131:A:LEU:HB3	1:131:A:LEU:HD13	7	0.22
(1,6686)	1:131:A:LEU:HB3	1:131:A:LEU:HD13	10	0.22
(1,6594)	1:97:A:THR:HG23	1:125:A:VAL:HB	6	0.22
(1,6538)	1:119:A:ASP:HB2	1:120:A:ASP:H	5	0.22
(1,6522)	1:116:A:THR:HG22	1:139:A:LYS:HA	10	0.22
(1,6518)	1:115:A:TRP:HB3	1:116:A:THR:HG23	4	0.22
(1,6346)	1:103:A:LYS:HE3	1:103:A:LYS:HG2	1	0.22
(1,6346)	1:103:A:LYS:HE3	1:103:A:LYS:HG2	3	0.22
(1,6346)	1:103:A:LYS:HE3	1:103:A:LYS:HG2	9	0.22
(1,6299)	1:101:A:SER:HB3	1:100:A:ALA:HB2	2	0.22
(1,6191)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	5	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6191)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	6	0.22
(1,6109)	1:90:A:LEU:HD21	1:63:A:MET:HB3	5	0.22
(1,5864)	1:79:A:LEU:HB3	1:79:A:LEU:HD23	5	0.22
(1,5864)	1:79:A:LEU:HB3	1:79:A:LEU:HD23	10	0.22
(1,5846)	1:83:A:TRP:H	1:79:A:LEU:HD13	1	0.22
(1,5813)	1:74:A:PHE:HA	1:77:A:ASP:HB3	3	0.22
(1,5813)	1:74:A:PHE:HA	1:77:A:ASP:HB3	10	0.22
(1,5801)	1:77:A:ASP:HA	1:80:A:LYS:HB2	10	0.22
(1,5788)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	9	0.22
(1,5740)	1:75:A:ILE:HG21	1:83:A:TRP:HZ3	2	0.22
(1,5565)	1:66:A:ILE:HG23	1:113:A:ASP:HA	9	0.22
(1,5558)	1:66:A:ILE:HG13	1:66:A:ILE:HG22	4	0.22
(1,5527)	1:66:A:ILE:HA	1:154:A:LYS:HD2	4	0.22
(1,5527)	1:66:A:ILE:HA	1:154:A:LYS:HD2	9	0.22
(1,5517)	1:65:A:SER:HA	1:66:A:ILE:HD12	10	0.22
(1,5487)	1:64:A:ILE:HD11	1:91:A:LEU:HD22	3	0.22
(1,5440)	1:63:A:MET:HE3	1:49:A:ILE:HD13	9	0.22
(1,5407)	1:56:A:CYS:HB2	1:61:A:ALA:HB2	9	0.22
(1,5317)	1:52:A:VAL:HG21	1:63:A:MET:HG2	1	0.22
(1,5317)	1:52:A:VAL:HG22	1:63:A:MET:HG2	5	0.22
(1,5317)	1:52:A:VAL:HG23	1:63:A:MET:HG2	6	0.22
(1,5317)	1:52:A:VAL:HG22	1:63:A:MET:HG2	7	0.22
(1,5317)	1:52:A:VAL:HG23	1:63:A:MET:HG2	8	0.22
(1,5314)	1:52:A:VAL:HG12	1:53:A:ARG:HG3	6	0.22
(1,5305)	1:52:A:VAL:HG12	1:55:A:GLN:HE22	8	0.22
(1,5305)	1:52:A:VAL:HG11	1:55:A:GLN:HE22	10	0.22
(1,5304)	1:52:A:VAL:HG13	1:48:A:SER:HA	10	0.22
(1,5280)	1:50:A:GLU:HG3	1:49:A:ILE:HG22	10	0.22
(1,5184)	1:51:A:ASP:H	1:46:A:VAL:HG22	3	0.22
(1,4992)	1:28:A:THR:HA	1:38:A:ILE:HD13	1	0.22
(1,4992)	1:28:A:THR:HA	1:38:A:ILE:HD13	6	0.22
(1,4832)	1:28:A:THR:HG22	1:38:A:ILE:HD11	6	0.22
(1,4732)	1:66:A:ILE:H	1:154:A:LYS:HE3	4	0.22
(1,4727)	1:48:A:SER:H	1:45:A:LYS:HG3	6	0.22
(1,4709)	1:31:A:GLN:H	1:31:A:GLN:HE21	1	0.22
(1,4705)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	3	0.22
(1,4682)	1:152:A:LEU:HD12	1:79:A:LEU:H	3	0.22
(1,4648)	1:79:A:LEU:HD22	1:80:A:LYS:H	7	0.22
(1,4636)	1:75:A:ILE:HG21	1:64:A:ILE:HG13	7	0.22
(1,4619)	1:64:A:ILE:HD12	1:152:A:LEU:H	10	0.22
(1,4553)	1:66:A:ILE:H	1:154:A:LYS:HE3	4	0.22
(1,4548)	1:48:A:SER:H	1:45:A:LYS:HG3	6	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4530)	1:31:A:GLN:H	1:31:A:GLN:HE21	1	0.22
(1,4526)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	3	0.22
(1,4503)	1:152:A:LEU:HD12	1:79:A:LEU:H	3	0.22
(1,4469)	1:79:A:LEU:HD22	1:80:A:LYS:H	7	0.22
(1,4457)	1:75:A:ILE:HG21	1:64:A:ILE:HG13	7	0.22
(1,4440)	1:64:A:ILE:HD12	1:152:A:LEU:H	10	0.22
(1,4216)	1:140:A:LYS:H	1:124:A:LEU:HD21	10	0.22
(1,4136)	1:136:A:GLY:H	1:131:A:LEU:HD11	6	0.22
(1,4106)	1:133:A:ILE:H	1:133:A:ILE:HG23	5	0.22
(1,3988)	1:118:A:GLN:HE22	1:139:A:LYS:H	2	0.22
(1,3792)	1:102:A:PHE:H	1:101:A:SER:HB2	2	0.22
(1,3697)	1:92:A:GLY:H	1:91:A:LEU:HB2	8	0.22
(1,3568)	1:78:A:THR:H	1:79:A:LEU:HB3	1	0.22
(1,3568)	1:78:A:THR:H	1:79:A:LEU:HB3	2	0.22
(1,3568)	1:78:A:THR:H	1:79:A:LEU:HB3	4	0.22
(1,3568)	1:78:A:THR:H	1:79:A:LEU:HB3	5	0.22
(1,3568)	1:78:A:THR:H	1:79:A:LEU:HB3	6	0.22
(1,3568)	1:78:A:THR:H	1:79:A:LEU:HB3	7	0.22
(1,3568)	1:78:A:THR:H	1:79:A:LEU:HB3	8	0.22
(1,3568)	1:78:A:THR:H	1:79:A:LEU:HB3	9	0.22
(1,3568)	1:78:A:THR:H	1:79:A:LEU:HB3	10	0.22
(1,3522)	1:75:A:ILE:H	1:76:A:LEU:HB3	1	0.22
(1,3267)	1:55:A:GLN:HE22	1:40:A:LEU:HD22	4	0.22
(1,3257)	1:55:A:GLN:HE21	1:44:A:ILE:HG23	6	0.22
(1,3207)	1:53:A:ARG:H	1:46:A:VAL:HG13	9	0.22
(1,3169)	1:50:A:GLU:H	1:49:A:ILE:HG13	2	0.22
(1,3169)	1:50:A:GLU:H	1:49:A:ILE:HG13	5	0.22
(1,3169)	1:50:A:GLU:H	1:49:A:ILE:HG13	6	0.22
(1,2825)	1:131:A:LEU:HD23	1:138:A:TRP:HD1	3	0.22
(1,2686)	1:124:A:LEU:HD21	1:95:A:TYR:HE1	4	0.22
(1,2668)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	2	0.22
(1,2668)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	3	0.22
(1,2668)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	4	0.22
(1,2668)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	6	0.22
(1,2668)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	7	0.22
(1,2561)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	3	0.22
(1,2439)	1:157:A:ILE:HG22	1:23:A:ASP:HA	8	0.22
(1,2403)	1:156:A:ALA:HA	1:157:A:ILE:HG21	7	0.22
(1,2330)	1:152:A:LEU:HD13	1:153:A:CYS:HA	4	0.22
(1,2330)	1:152:A:LEU:HD12	1:153:A:CYS:HA	10	0.22
(1,2291)	1:37:A:TYR:HB2	1:152:A:LEU:HD13	8	0.22
(1,2291)	1:37:A:TYR:HB2	1:152:A:LEU:HD13	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1931)	1:131:A:LEU:HD21	1:73:A:ALA:HA	2	0.22
(1,1928)	1:131:A:LEU:HD12	1:138:A:TRP:HA	4	0.22
(1,1927)	1:131:A:LEU:HD13	1:138:A:TRP:H	5	0.22
(1,1919)	1:131:A:LEU:HB3	1:131:A:LEU:HD11	3	0.22
(1,1919)	1:131:A:LEU:HB3	1:131:A:LEU:HD13	6	0.22
(1,1919)	1:131:A:LEU:HB3	1:131:A:LEU:HD13	7	0.22
(1,1919)	1:131:A:LEU:HB3	1:131:A:LEU:HD13	10	0.22
(1,1827)	1:97:A:THR:HG23	1:125:A:VAL:HB	6	0.22
(1,1771)	1:119:A:ASP:HB2	1:120:A:ASP:H	5	0.22
(1,1755)	1:116:A:THR:HG22	1:139:A:LYS:HA	10	0.22
(1,1751)	1:115:A:TRP:HB3	1:116:A:THR:HG23	4	0.22
(1,1579)	1:103:A:LYS:HE3	1:103:A:LYS:HG2	1	0.22
(1,1579)	1:103:A:LYS:HE3	1:103:A:LYS:HG2	3	0.22
(1,1579)	1:103:A:LYS:HE3	1:103:A:LYS:HG2	9	0.22
(1,1532)	1:101:A:SER:HB3	1:100:A:ALA:HB2	2	0.22
(1,1424)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	5	0.22
(1,1424)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	6	0.22
(1,1342)	1:90:A:LEU:HD21	1:63:A:MET:HB3	5	0.22
(1,1097)	1:79:A:LEU:HB3	1:79:A:LEU:HD23	5	0.22
(1,1097)	1:79:A:LEU:HB3	1:79:A:LEU:HD23	10	0.22
(1,1079)	1:83:A:TRP:H	1:79:A:LEU:HD13	1	0.22
(1,1046)	1:74:A:PHE:HA	1:77:A:ASP:HB3	3	0.22
(1,1046)	1:74:A:PHE:HA	1:77:A:ASP:HB3	10	0.22
(1,1034)	1:77:A:ASP:HA	1:80:A:LYS:HB2	10	0.22
(1,1021)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	9	0.22
(1,973)	1:75:A:ILE:HG21	1:83:A:TRP:HZ3	2	0.22
(1,798)	1:66:A:ILE:HG23	1:113:A:ASP:HA	9	0.22
(1,791)	1:66:A:ILE:HG13	1:66:A:ILE:HG22	4	0.22
(1,760)	1:66:A:ILE:HA	1:154:A:LYS:HD2	4	0.22
(1,760)	1:66:A:ILE:HA	1:154:A:LYS:HD2	9	0.22
(1,750)	1:65:A:SER:HA	1:66:A:ILE:HD12	10	0.22
(1,720)	1:64:A:ILE:HD11	1:91:A:LEU:HD22	3	0.22
(1,673)	1:63:A:MET:HE3	1:49:A:ILE:HD13	9	0.22
(1,640)	1:56:A:CYS:HB2	1:61:A:ALA:HB2	9	0.22
(1,550)	1:52:A:VAL:HG21	1:63:A:MET:HG2	1	0.22
(1,550)	1:52:A:VAL:HG22	1:63:A:MET:HG2	5	0.22
(1,550)	1:52:A:VAL:HG23	1:63:A:MET:HG2	6	0.22
(1,550)	1:52:A:VAL:HG22	1:63:A:MET:HG2	7	0.22
(1,550)	1:52:A:VAL:HG23	1:63:A:MET:HG2	8	0.22
(1,547)	1:52:A:VAL:HG12	1:53:A:ARG:HG3	6	0.22
(1,538)	1:52:A:VAL:HG12	1:55:A:GLN:HE22	8	0.22
(1,538)	1:52:A:VAL:HG11	1:55:A:GLN:HE22	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,537)	1:52:A:VAL:HG13	1:48:A:SER:HA	10	0.22
(1,513)	1:50:A:GLU:HG3	1:49:A:ILE:HG22	10	0.22
(1,417)	1:51:A:ASP:H	1:46:A:VAL:HG22	3	0.22
(1,225)	1:28:A:THR:HA	1:38:A:ILE:HD13	1	0.22
(1,225)	1:28:A:THR:HA	1:38:A:ILE:HD13	6	0.22
(1,65)	1:28:A:THR:HG22	1:38:A:ILE:HD11	6	0.22
(1,9089)	1:153:A:CYS:H	1:38:A:ILE:HD11	8	0.21
(1,8977)	1:140:A:LYS:H	1:139:A:LYS:HG3	1	0.21
(1,8977)	1:140:A:LYS:H	1:139:A:LYS:HG3	3	0.21
(1,8977)	1:140:A:LYS:H	1:139:A:LYS:HG3	4	0.21
(1,8873)	1:133:A:ILE:H	1:133:A:ILE:HG22	8	0.21
(1,8681)	1:112:A:PHE:H	1:112:A:PHE:HD1	1	0.21
(1,8464)	1:92:A:GLY:H	1:91:A:LEU:HB2	1	0.21
(1,8390)	1:83:A:TRP:HE1	1:79:A:LEU:HD13	1	0.21
(1,8357)	1:81:A:LYS:H	1:81:A:LYS:HB2	6	0.21
(1,8334)	1:78:A:THR:H	1:78:A:THR:HG22	3	0.21
(1,8314)	1:77:A:ASP:H	1:78:A:THR:HG22	3	0.21
(1,8314)	1:77:A:ASP:H	1:78:A:THR:HG23	7	0.21
(1,8289)	1:75:A:ILE:H	1:76:A:LEU:HB3	6	0.21
(1,8289)	1:75:A:ILE:H	1:76:A:LEU:HB3	10	0.21
(1,8264)	1:72:A:ASN:HD21	1:131:A:LEU:HD11	2	0.21
(1,8215)	1:70:A:GLU:H	1:70:A:GLU:HB3	9	0.21
(1,8127)	1:62:A:ASP:H	1:155:A:THR:HG21	6	0.21
(1,8047)	1:55:A:GLN:HE21	1:151:A:THR:HG23	2	0.21
(1,8034)	1:55:A:GLN:HE22	1:40:A:LEU:HD21	10	0.21
(1,8011)	1:55:A:GLN:H	1:53:A:ARG:HD2	2	0.21
(1,8011)	1:55:A:GLN:H	1:53:A:ARG:HD2	5	0.21
(1,7974)	1:53:A:ARG:H	1:46:A:VAL:HG13	3	0.21
(1,7954)	1:51:A:ASP:H	1:49:A:ILE:HG21	9	0.21
(1,7936)	1:50:A:GLU:H	1:49:A:ILE:HG13	1	0.21
(1,7936)	1:50:A:GLU:H	1:49:A:ILE:HG13	3	0.21
(1,7936)	1:50:A:GLU:H	1:49:A:ILE:HG13	4	0.21
(1,7936)	1:50:A:GLU:H	1:49:A:ILE:HG13	8	0.21
(1,7936)	1:50:A:GLU:H	1:49:A:ILE:HG13	9	0.21
(1,7854)	1:41:A:GLN:H	1:39:A:PHE:HB2	1	0.21
(1,7854)	1:41:A:GLN:H	1:39:A:PHE:HB2	4	0.21
(1,7854)	1:41:A:GLN:H	1:39:A:PHE:HB2	5	0.21
(1,7854)	1:41:A:GLN:H	1:39:A:PHE:HB2	6	0.21
(1,7854)	1:41:A:GLN:H	1:39:A:PHE:HB2	8	0.21
(1,7854)	1:41:A:GLN:H	1:39:A:PHE:HB2	9	0.21
(1,7453)	1:124:A:LEU:HD21	1:95:A:TYR:HE1	6	0.21
(1,7435)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7435)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	8	0.21
(1,7354)	1:40:A:LEU:HD21	1:59:A:HIS:HD2	3	0.21
(1,7328)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	8	0.21
(1,7328)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	9	0.21
(1,7205)	1:157:A:ILE:HG22	1:23:A:ASP:HB2	8	0.21
(1,7170)	1:156:A:ALA:HA	1:157:A:ILE:HG23	2	0.21
(1,7170)	1:156:A:ALA:HA	1:157:A:ILE:HG22	5	0.21
(1,7170)	1:156:A:ALA:HA	1:157:A:ILE:HG23	8	0.21
(1,7079)	1:152:A:LEU:HD21	1:75:A:ILE:H	2	0.21
(1,7079)	1:152:A:LEU:HD23	1:75:A:ILE:H	3	0.21
(1,7009)	1:148:A:VAL:HG22	1:147:A:SER:HB2	7	0.21
(1,6839)	1:116:A:THR:HG21	1:137:A:GLU:HG2	5	0.21
(1,6839)	1:116:A:THR:HG21	1:137:A:GLU:HG2	7	0.21
(1,6790)	1:134:A:LYS:HE2	1:134:A:LYS:HG2	3	0.21
(1,6778)	1:80:A:LYS:HE2	1:133:A:ILE:HG21	2	0.21
(1,6686)	1:131:A:LEU:HB3	1:131:A:LEU:HD11	1	0.21
(1,6686)	1:131:A:LEU:HB3	1:131:A:LEU:HD12	2	0.21
(1,6686)	1:131:A:LEU:HB3	1:131:A:LEU:HD12	8	0.21
(1,6658)	1:129:A:ALA:HB2	1:130:A:PHE:HD1	9	0.21
(1,6656)	1:130:A:PHE:H	1:129:A:ALA:HB2	1	0.21
(1,6647)	1:129:A:ALA:HB1	1:91:A:LEU:HD21	10	0.21
(1,6644)	1:129:A:ALA:HB1	1:91:A:LEU:HA	8	0.21
(1,6538)	1:119:A:ASP:HB2	1:120:A:ASP:H	9	0.21
(1,6536)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	8	0.21
(1,6536)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	9	0.21
(1,6522)	1:116:A:THR:HG23	1:139:A:LYS:HA	8	0.21
(1,6506)	1:116:A:THR:HA	1:117:A:ASP:HB2	10	0.21
(1,6346)	1:103:A:LYS:HE3	1:103:A:LYS:HG2	2	0.21
(1,6346)	1:103:A:LYS:HE3	1:103:A:LYS:HG2	7	0.21
(1,6334)	1:103:A:LYS:HD3	1:96:A:ASP:HA	3	0.21
(1,6287)	1:99:A:ASP:H	1:100:A:ALA:HB2	10	0.21
(1,6191)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	1	0.21
(1,6161)	1:91:A:LEU:HD21	1:138:A:TRP:HB2	4	0.21
(1,5878)	1:79:A:LEU:HG	1:83:A:TRP:HB2	2	0.21
(1,5878)	1:79:A:LEU:HG	1:83:A:TRP:HB2	7	0.21
(1,5878)	1:79:A:LEU:HG	1:83:A:TRP:HB2	8	0.21
(1,5878)	1:79:A:LEU:HG	1:83:A:TRP:HB2	9	0.21
(1,5878)	1:79:A:LEU:HG	1:83:A:TRP:HB2	10	0.21
(1,5864)	1:79:A:LEU:HB3	1:79:A:LEU:HD22	2	0.21
(1,5864)	1:79:A:LEU:HB3	1:79:A:LEU:HD21	6	0.21
(1,5864)	1:79:A:LEU:HB3	1:79:A:LEU:HD22	9	0.21
(1,5846)	1:83:A:TRP:H	1:79:A:LEU:HD11	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5833)	1:78:A:THR:HG23	1:82:A:GLN:HB3	4	0.21
(1,5826)	1:78:A:THR:HG23	1:82:A:GLN:HA	2	0.21
(1,5813)	1:74:A:PHE:HA	1:77:A:ASP:HB3	9	0.21
(1,5776)	1:76:A:LEU:HD11	1:133:A:ILE:HA	4	0.21
(1,5771)	1:76:A:LEU:HD11	1:89:A:ILE:H	6	0.21
(1,5743)	1:75:A:ILE:HG23	1:78:A:THR:HB	6	0.21
(1,5576)	1:66:A:ILE:HG23	1:91:A:LEU:HD23	2	0.21
(1,5576)	1:66:A:ILE:HG23	1:91:A:LEU:HD22	6	0.21
(1,5571)	1:66:A:ILE:HG21	1:71:A:GLU:HG3	8	0.21
(1,5527)	1:66:A:ILE:HA	1:154:A:LYS:HD2	10	0.21
(1,5444)	1:63:A:MET:HE1	1:91:A:LEU:HA	8	0.21
(1,5413)	1:61:A:ALA:HB3	1:56:A:CYS:H	5	0.21
(1,5386)	1:57:A:THR:HG23	1:61:A:ALA:H	4	0.21
(1,5323)	1:53:A:ARG:HB2	1:52:A:VAL:H	2	0.21
(1,5323)	1:53:A:ARG:HB2	1:52:A:VAL:H	9	0.21
(1,5317)	1:52:A:VAL:HG23	1:63:A:MET:HG2	4	0.21
(1,5314)	1:52:A:VAL:HG12	1:53:A:ARG:HG3	10	0.21
(1,5305)	1:52:A:VAL:HG13	1:55:A:GLN:HE22	3	0.21
(1,5305)	1:52:A:VAL:HG13	1:55:A:GLN:HE22	7	0.21
(1,5206)	1:48:A:SER:HA	1:46:A:VAL:HG11	3	0.21
(1,5183)	1:46:A:VAL:HG13	1:148:A:VAL:HG21	7	0.21
(1,5164)	1:45:A:LYS:HG3	1:46:A:VAL:HG23	10	0.21
(1,5045)	1:40:A:LEU:HB2	1:38:A:ILE:HD13	5	0.21
(1,5008)	1:38:A:ILE:HD11	1:153:A:CYS:HB2	8	0.21
(1,5004)	1:39:A:PHE:H	1:38:A:ILE:HD13	2	0.21
(1,5004)	1:39:A:PHE:H	1:38:A:ILE:HD12	9	0.21
(1,4925)	1:35:A:SER:HA	1:157:A:ILE:HD12	4	0.21
(1,4897)	1:31:A:GLN:HG2	1:157:A:ILE:HD13	6	0.21
(1,4761)	1:138:A:TRP:H	1:115:A:TRP:HB2	2	0.21
(1,4761)	1:138:A:TRP:H	1:115:A:TRP:HB2	3	0.21
(1,4727)	1:48:A:SER:H	1:45:A:LYS:HG3	3	0.21
(1,4709)	1:31:A:GLN:H	1:31:A:GLN:HE21	6	0.21
(1,4705)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	7	0.21
(1,4692)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	6	0.21
(1,4682)	1:152:A:LEU:HD13	1:79:A:LEU:H	5	0.21
(1,4679)	1:151:A:THR:HG23	1:56:A:CYS:HB3	7	0.21
(1,4656)	1:91:A:LEU:HD22	1:115:A:TRP:HZ3	5	0.21
(1,4656)	1:91:A:LEU:HD21	1:115:A:TRP:HZ2	7	0.21
(1,4619)	1:64:A:ILE:HD13	1:152:A:LEU:H	5	0.21
(1,4582)	1:138:A:TRP:H	1:115:A:TRP:HB2	2	0.21
(1,4582)	1:138:A:TRP:H	1:115:A:TRP:HB2	3	0.21
(1,4548)	1:48:A:SER:H	1:45:A:LYS:HG3	3	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4530)	1:31:A:GLN:H	1:31:A:GLN:HE21	6	0.21
(1,4526)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	7	0.21
(1,4513)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	6	0.21
(1,4503)	1:152:A:LEU:HD13	1:79:A:LEU:H	5	0.21
(1,4500)	1:151:A:THR:HG23	1:56:A:CYS:HB3	7	0.21
(1,4477)	1:91:A:LEU:HD22	1:115:A:TRP:HZ3	5	0.21
(1,4477)	1:91:A:LEU:HD21	1:115:A:TRP:HZ2	7	0.21
(1,4440)	1:64:A:ILE:HD13	1:152:A:LEU:H	5	0.21
(1,4322)	1:153:A:CYS:H	1:38:A:ILE:HD11	8	0.21
(1,4210)	1:140:A:LYS:H	1:139:A:LYS:HG3	1	0.21
(1,4210)	1:140:A:LYS:H	1:139:A:LYS:HG3	3	0.21
(1,4210)	1:140:A:LYS:H	1:139:A:LYS:HG3	4	0.21
(1,4106)	1:133:A:ILE:H	1:133:A:ILE:HG22	8	0.21
(1,3914)	1:112:A:PHE:H	1:112:A:PHE:HD1	1	0.21
(1,3697)	1:92:A:GLY:H	1:91:A:LEU:HB2	1	0.21
(1,3623)	1:83:A:TRP:HE1	1:79:A:LEU:HD13	1	0.21
(1,3590)	1:81:A:LYS:H	1:81:A:LYS:HB2	6	0.21
(1,3567)	1:78:A:THR:H	1:78:A:THR:HG22	3	0.21
(1,3547)	1:77:A:ASP:H	1:78:A:THR:HG22	3	0.21
(1,3547)	1:77:A:ASP:H	1:78:A:THR:HG23	7	0.21
(1,3522)	1:75:A:ILE:H	1:76:A:LEU:HB3	6	0.21
(1,3522)	1:75:A:ILE:H	1:76:A:LEU:HB3	10	0.21
(1,3497)	1:72:A:ASN:HD21	1:131:A:LEU:HD11	2	0.21
(1,3448)	1:70:A:GLU:H	1:70:A:GLU:HB3	9	0.21
(1,3360)	1:62:A:ASP:H	1:155:A:THR:HG21	6	0.21
(1,3280)	1:55:A:GLN:HE21	1:151:A:THR:HG23	2	0.21
(1,3267)	1:55:A:GLN:HE22	1:40:A:LEU:HD21	10	0.21
(1,3244)	1:55:A:GLN:H	1:53:A:ARG:HD2	2	0.21
(1,3244)	1:55:A:GLN:H	1:53:A:ARG:HD2	5	0.21
(1,3207)	1:53:A:ARG:H	1:46:A:VAL:HG13	3	0.21
(1,3187)	1:51:A:ASP:H	1:49:A:ILE:HG21	9	0.21
(1,3169)	1:50:A:GLU:H	1:49:A:ILE:HG13	1	0.21
(1,3169)	1:50:A:GLU:H	1:49:A:ILE:HG13	3	0.21
(1,3169)	1:50:A:GLU:H	1:49:A:ILE:HG13	4	0.21
(1,3169)	1:50:A:GLU:H	1:49:A:ILE:HG13	8	0.21
(1,3169)	1:50:A:GLU:H	1:49:A:ILE:HG13	9	0.21
(1,3087)	1:41:A:GLN:H	1:39:A:PHE:HB2	1	0.21
(1,3087)	1:41:A:GLN:H	1:39:A:PHE:HB2	4	0.21
(1,3087)	1:41:A:GLN:H	1:39:A:PHE:HB2	5	0.21
(1,3087)	1:41:A:GLN:H	1:39:A:PHE:HB2	6	0.21
(1,3087)	1:41:A:GLN:H	1:39:A:PHE:HB2	8	0.21
(1,3087)	1:41:A:GLN:H	1:39:A:PHE:HB2	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2686)	1:124:A:LEU:HD21	1:95:A:TYR:HE1	6	0.21
(1,2668)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	1	0.21
(1,2668)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	8	0.21
(1,2587)	1:40:A:LEU:HD21	1:59:A:HIS:HD2	3	0.21
(1,2561)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	8	0.21
(1,2561)	1:37:A:TYR:HB3	1:37:A:TYR:HD1	9	0.21
(1,2438)	1:157:A:ILE:HG22	1:23:A:ASP:HB2	8	0.21
(1,2403)	1:156:A:ALA:HA	1:157:A:ILE:HG23	2	0.21
(1,2403)	1:156:A:ALA:HA	1:157:A:ILE:HG22	5	0.21
(1,2403)	1:156:A:ALA:HA	1:157:A:ILE:HG23	8	0.21
(1,2312)	1:152:A:LEU:HD21	1:75:A:ILE:H	2	0.21
(1,2312)	1:152:A:LEU:HD23	1:75:A:ILE:H	3	0.21
(1,2242)	1:148:A:VAL:HG22	1:147:A:SER:HB2	7	0.21
(1,2072)	1:116:A:THR:HG21	1:137:A:GLU:HG2	5	0.21
(1,2072)	1:116:A:THR:HG21	1:137:A:GLU:HG2	7	0.21
(1,2023)	1:134:A:LYS:HE2	1:134:A:LYS:HG2	3	0.21
(1,2011)	1:80:A:LYS:HE2	1:133:A:ILE:HG21	2	0.21
(1,1919)	1:131:A:LEU:HB3	1:131:A:LEU:HD11	1	0.21
(1,1919)	1:131:A:LEU:HB3	1:131:A:LEU:HD12	2	0.21
(1,1919)	1:131:A:LEU:HB3	1:131:A:LEU:HD12	8	0.21
(1,1891)	1:129:A:ALA:HB2	1:130:A:PHE:HD1	9	0.21
(1,1889)	1:130:A:PHE:H	1:129:A:ALA:HB2	1	0.21
(1,1880)	1:129:A:ALA:HB1	1:91:A:LEU:HD21	10	0.21
(1,1877)	1:129:A:ALA:HB1	1:91:A:LEU:HA	8	0.21
(1,1771)	1:119:A:ASP:HB2	1:120:A:ASP:H	9	0.21
(1,1769)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	8	0.21
(1,1769)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	9	0.21
(1,1755)	1:116:A:THR:HG23	1:139:A:LYS:HA	8	0.21
(1,1739)	1:116:A:THR:HA	1:117:A:ASP:HB2	10	0.21
(1,1579)	1:103:A:LYS:HE3	1:103:A:LYS:HG2	2	0.21
(1,1579)	1:103:A:LYS:HE3	1:103:A:LYS:HG2	7	0.21
(1,1567)	1:103:A:LYS:HD3	1:96:A:ASP:HA	3	0.21
(1,1520)	1:99:A:ASP:H	1:100:A:ALA:HB2	10	0.21
(1,1424)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	1	0.21
(1,1394)	1:91:A:LEU:HD21	1:138:A:TRP:HB2	4	0.21
(1,1111)	1:79:A:LEU:HG	1:83:A:TRP:HB2	2	0.21
(1,1111)	1:79:A:LEU:HG	1:83:A:TRP:HB2	7	0.21
(1,1111)	1:79:A:LEU:HG	1:83:A:TRP:HB2	8	0.21
(1,1111)	1:79:A:LEU:HG	1:83:A:TRP:HB2	9	0.21
(1,1111)	1:79:A:LEU:HG	1:83:A:TRP:HB2	10	0.21
(1,1097)	1:79:A:LEU:HB3	1:79:A:LEU:HD22	2	0.21
(1,1097)	1:79:A:LEU:HB3	1:79:A:LEU:HD21	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1097)	1:79:A:LEU:HB3	1:79:A:LEU:HD22	9	0.21
(1,1079)	1:83:A:TRP:H	1:79:A:LEU:HD11	2	0.21
(1,1066)	1:78:A:THR:HG23	1:82:A:GLN:HB3	4	0.21
(1,1059)	1:78:A:THR:HG23	1:82:A:GLN:HA	2	0.21
(1,1046)	1:74:A:PHE:HA	1:77:A:ASP:HB3	9	0.21
(1,1009)	1:76:A:LEU:HD11	1:133:A:ILE:HA	4	0.21
(1,1004)	1:76:A:LEU:HD11	1:89:A:ILE:H	6	0.21
(1,976)	1:75:A:ILE:HG23	1:78:A:THR:HB	6	0.21
(1,809)	1:66:A:ILE:HG23	1:91:A:LEU:HD23	2	0.21
(1,809)	1:66:A:ILE:HG23	1:91:A:LEU:HD22	6	0.21
(1,804)	1:66:A:ILE:HG21	1:71:A:GLU:HG3	8	0.21
(1,760)	1:66:A:ILE:HA	1:154:A:LYS:HD2	10	0.21
(1,677)	1:63:A:MET:HE1	1:91:A:LEU:HA	8	0.21
(1,646)	1:61:A:ALA:HB3	1:56:A:CYS:H	5	0.21
(1,619)	1:57:A:THR:HG23	1:61:A:ALA:H	4	0.21
(1,556)	1:53:A:ARG:HB2	1:52:A:VAL:H	2	0.21
(1,556)	1:53:A:ARG:HB2	1:52:A:VAL:H	9	0.21
(1,550)	1:52:A:VAL:HG23	1:63:A:MET:HG2	4	0.21
(1,547)	1:52:A:VAL:HG12	1:53:A:ARG:HG3	10	0.21
(1,538)	1:52:A:VAL:HG13	1:55:A:GLN:HE22	3	0.21
(1,538)	1:52:A:VAL:HG13	1:55:A:GLN:HE22	7	0.21
(1,439)	1:48:A:SER:HA	1:46:A:VAL:HG11	3	0.21
(1,416)	1:46:A:VAL:HG13	1:148:A:VAL:HG21	7	0.21
(1,397)	1:45:A:LYS:HG3	1:46:A:VAL:HG23	10	0.21
(1,278)	1:40:A:LEU:HB2	1:38:A:ILE:HD13	5	0.21
(1,241)	1:38:A:ILE:HD11	1:153:A:CYS:HB2	8	0.21
(1,237)	1:39:A:PHE:H	1:38:A:ILE:HD13	2	0.21
(1,237)	1:39:A:PHE:H	1:38:A:ILE:HD12	9	0.21
(1,158)	1:35:A:SER:HA	1:157:A:ILE:HD12	4	0.21
(1,130)	1:31:A:GLN:HG2	1:157:A:ILE:HD13	6	0.21
(1,9152)	1:157:A:ILE:H	1:156:A:ALA:HB3	8	0.2
(1,8977)	1:140:A:LYS:H	1:139:A:LYS:HG3	8	0.2
(1,8873)	1:133:A:ILE:H	1:133:A:ILE:HG22	7	0.2
(1,8873)	1:133:A:ILE:H	1:133:A:ILE:HG23	9	0.2
(1,8821)	1:129:A:ALA:H	1:91:A:LEU:HD22	2	0.2
(1,8495)	1:94:A:PHE:H	1:103:A:LYS:HG2	3	0.2
(1,8464)	1:92:A:GLY:H	1:91:A:LEU:HB2	5	0.2
(1,8374)	1:82:A:GLN:HE22	1:30:A:ILE:HG23	4	0.2
(1,8314)	1:77:A:ASP:H	1:78:A:THR:HG23	10	0.2
(1,8289)	1:75:A:ILE:H	1:76:A:LEU:HB3	5	0.2
(1,8289)	1:75:A:ILE:H	1:76:A:LEU:HB3	7	0.2
(1,8289)	1:75:A:ILE:H	1:76:A:LEU:HB3	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8250)	1:72:A:ASN:HD22	1:66:A:ILE:HG21	7	0.2
(1,8210)	1:70:A:GLU:H	1:68:A:ASN:HB3	9	0.2
(1,8024)	1:55:A:GLN:HE21	1:44:A:ILE:HG23	7	0.2
(1,8024)	1:55:A:GLN:HE21	1:44:A:ILE:HG21	10	0.2
(1,8011)	1:55:A:GLN:H	1:53:A:ARG:HD2	3	0.2
(1,8011)	1:55:A:GLN:H	1:53:A:ARG:HD2	9	0.2
(1,7936)	1:50:A:GLU:H	1:49:A:ILE:HG13	7	0.2
(1,7936)	1:50:A:GLU:H	1:49:A:ILE:HG13	10	0.2
(1,7854)	1:41:A:GLN:H	1:39:A:PHE:HB2	2	0.2
(1,7854)	1:41:A:GLN:H	1:39:A:PHE:HB2	7	0.2
(1,7854)	1:41:A:GLN:H	1:39:A:PHE:HB2	10	0.2
(1,7749)	1:31:A:GLN:HE21	1:157:A:ILE:HD13	5	0.2
(1,7517)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	1	0.2
(1,7435)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	9	0.2
(1,7354)	1:40:A:LEU:HD23	1:59:A:HIS:HD2	6	0.2
(1,7214)	1:156:A:ALA:HB1	1:158:A:PRO:HA	1	0.2
(1,7213)	1:157:A:ILE:HG21	1:158:A:PRO:HD3	8	0.2
(1,7170)	1:156:A:ALA:HA	1:157:A:ILE:HG22	9	0.2
(1,7110)	1:153:A:CYS:HB3	1:152:A:LEU:HD11	6	0.2
(1,7097)	1:152:A:LEU:HD12	1:153:A:CYS:HA	8	0.2
(1,7079)	1:152:A:LEU:HD21	1:75:A:ILE:H	7	0.2
(1,7013)	1:149:A:GLU:HA	1:43:A:ALA:HB1	3	0.2
(1,7008)	1:148:A:VAL:HG22	1:146:A:SER:HA	1	0.2
(1,7008)	1:148:A:VAL:HG21	1:146:A:SER:HA	5	0.2
(1,7008)	1:148:A:VAL:HG22	1:146:A:SER:HA	8	0.2
(1,6839)	1:116:A:THR:HG21	1:137:A:GLU:HG2	4	0.2
(1,6750)	1:133:A:ILE:HD11	1:80:A:LYS:HE2	6	0.2
(1,6724)	1:91:A:LEU:HD22	1:131:A:LEU:HG	7	0.2
(1,6719)	1:131:A:LEU:HD21	1:136:A:GLY:HA2	2	0.2
(1,6695)	1:131:A:LEU:HD12	1:138:A:TRP:HA	3	0.2
(1,6694)	1:131:A:LEU:HD11	1:138:A:TRP:H	7	0.2
(1,6686)	1:131:A:LEU:HB3	1:131:A:LEU:HD11	4	0.2
(1,6657)	1:129:A:ALA:HB3	1:130:A:PHE:HA	8	0.2
(1,6651)	1:128:A:CYS:HA	1:129:A:ALA:HB3	7	0.2
(1,6647)	1:129:A:ALA:HB1	1:91:A:LEU:HD23	9	0.2
(1,6506)	1:116:A:THR:HA	1:117:A:ASP:HB2	2	0.2
(1,6506)	1:116:A:THR:HA	1:117:A:ASP:HB2	8	0.2
(1,6450)	1:114:A:LYS:HA	1:112:A:PHE:HD2	5	0.2
(1,6425)	1:112:A:PHE:HB2	1:66:A:ILE:HB	7	0.2
(1,6346)	1:103:A:LYS:HE3	1:103:A:LYS:HG2	8	0.2
(1,6334)	1:103:A:LYS:HD3	1:96:A:ASP:HA	2	0.2
(1,6334)	1:103:A:LYS:HD3	1:96:A:ASP:HA	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6306)	1:101:A:SER:HB2	1:102:A:PHE:HA	8	0.2
(1,6266)	1:97:A:THR:HG21	1:96:A:ASP:HA	3	0.2
(1,6263)	1:96:A:ASP:H	1:97:A:THR:HG21	7	0.2
(1,6191)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	2	0.2
(1,6191)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	3	0.2
(1,6191)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	8	0.2
(1,6181)	1:91:A:LEU:HD21	1:131:A:LEU:HB2	6	0.2
(1,6109)	1:90:A:LEU:HD23	1:63:A:MET:HB3	10	0.2
(1,5983)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	1	0.2
(1,5983)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	4	0.2
(1,5983)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	5	0.2
(1,5878)	1:79:A:LEU:HG	1:83:A:TRP:HB2	4	0.2
(1,5878)	1:79:A:LEU:HG	1:83:A:TRP:HB2	5	0.2
(1,5864)	1:79:A:LEU:HB3	1:79:A:LEU:HD22	4	0.2
(1,5864)	1:79:A:LEU:HB3	1:79:A:LEU:HD21	8	0.2
(1,5856)	1:79:A:LEU:HD13	1:79:A:LEU:HD21	2	0.2
(1,5856)	1:79:A:LEU:HD11	1:79:A:LEU:HD21	3	0.2
(1,5788)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	4	0.2
(1,5771)	1:76:A:LEU:HD11	1:89:A:ILE:H	10	0.2
(1,5696)	1:74:A:PHE:HA	1:32:A:PHE:HE1	6	0.2
(1,5613)	1:69:A:GLU:HB3	1:73:A:ALA:HB2	7	0.2
(1,5558)	1:66:A:ILE:HG13	1:66:A:ILE:HG22	10	0.2
(1,5549)	1:66:A:ILE:HD13	1:92:A:GLY:H	3	0.2
(1,5474)	1:64:A:ILE:HD12	1:152:A:LEU:HA	3	0.2
(1,5323)	1:53:A:ARG:HB2	1:52:A:VAL:H	4	0.2
(1,5305)	1:52:A:VAL:HG13	1:55:A:GLN:HE22	4	0.2
(1,5303)	1:52:A:VAL:HB	1:53:A:ARG:HG3	10	0.2
(1,5246)	1:49:A:ILE:HG12	1:90:A:LEU:HD12	6	0.2
(1,5164)	1:45:A:LYS:HG3	1:46:A:VAL:HG21	6	0.2
(1,5045)	1:40:A:LEU:HB2	1:38:A:ILE:HD11	1	0.2
(1,5045)	1:40:A:LEU:HB2	1:38:A:ILE:HD13	2	0.2
(1,4957)	1:36:A:CYS:HB3	1:156:A:ALA:HA	1	0.2
(1,4945)	1:36:A:CYS:HA	1:37:A:TYR:HB3	1	0.2
(1,4945)	1:36:A:CYS:HA	1:37:A:TYR:HB3	3	0.2
(1,4945)	1:36:A:CYS:HA	1:37:A:TYR:HB3	4	0.2
(1,4945)	1:36:A:CYS:HA	1:37:A:TYR:HB3	5	0.2
(1,4945)	1:36:A:CYS:HA	1:37:A:TYR:HB3	6	0.2
(1,4945)	1:36:A:CYS:HA	1:37:A:TYR:HB3	9	0.2
(1,4945)	1:36:A:CYS:HA	1:37:A:TYR:HB3	10	0.2
(1,4832)	1:28:A:THR:HG21	1:38:A:ILE:HD12	4	0.2
(1,4761)	1:138:A:TRP:H	1:115:A:TRP:HB2	5	0.2
(1,4761)	1:138:A:TRP:H	1:115:A:TRP:HB2	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4712)	1:31:A:GLN:HE22	1:34:A:ASP:HA	3	0.2
(1,4712)	1:31:A:GLN:HE22	1:34:A:ASP:HA	5	0.2
(1,4682)	1:152:A:LEU:HD11	1:79:A:LEU:H	1	0.2
(1,4682)	1:152:A:LEU:HD11	1:79:A:LEU:H	8	0.2
(1,4682)	1:152:A:LEU:HD13	1:79:A:LEU:H	9	0.2
(1,4682)	1:152:A:LEU:HD11	1:79:A:LEU:H	10	0.2
(1,4679)	1:151:A:THR:HG21	1:56:A:CYS:HB3	3	0.2
(1,4668)	1:131:A:LEU:HD21	1:91:A:LEU:HA	1	0.2
(1,4668)	1:131:A:LEU:HD23	1:91:A:LEU:HA	8	0.2
(1,4625)	1:66:A:ILE:HD11	1:136:A:GLY:HA2	4	0.2
(1,4619)	1:64:A:ILE:HD13	1:152:A:LEU:H	1	0.2
(1,4611)	1:55:A:GLN:HB3	1:44:A:ILE:HG21	2	0.2
(1,4582)	1:138:A:TRP:H	1:115:A:TRP:HB2	5	0.2
(1,4582)	1:138:A:TRP:H	1:115:A:TRP:HB2	10	0.2
(1,4533)	1:31:A:GLN:HE22	1:34:A:ASP:HA	3	0.2
(1,4533)	1:31:A:GLN:HE22	1:34:A:ASP:HA	5	0.2
(1,4503)	1:152:A:LEU:HD11	1:79:A:LEU:H	1	0.2
(1,4503)	1:152:A:LEU:HD11	1:79:A:LEU:H	8	0.2
(1,4503)	1:152:A:LEU:HD13	1:79:A:LEU:H	9	0.2
(1,4503)	1:152:A:LEU:HD11	1:79:A:LEU:H	10	0.2
(1,4500)	1:151:A:THR:HG21	1:56:A:CYS:HB3	3	0.2
(1,4489)	1:131:A:LEU:HD21	1:91:A:LEU:HA	1	0.2
(1,4489)	1:131:A:LEU:HD23	1:91:A:LEU:HA	8	0.2
(1,4446)	1:66:A:ILE:HD11	1:136:A:GLY:HA2	4	0.2
(1,4440)	1:64:A:ILE:HD13	1:152:A:LEU:H	1	0.2
(1,4432)	1:55:A:GLN:HB3	1:44:A:ILE:HG21	2	0.2
(1,4385)	1:157:A:ILE:H	1:156:A:ALA:HB3	8	0.2
(1,4210)	1:140:A:LYS:H	1:139:A:LYS:HG3	8	0.2
(1,4106)	1:133:A:ILE:H	1:133:A:ILE:HG22	7	0.2
(1,4106)	1:133:A:ILE:H	1:133:A:ILE:HG23	9	0.2
(1,4054)	1:129:A:ALA:H	1:91:A:LEU:HD22	2	0.2
(1,3728)	1:94:A:PHE:H	1:103:A:LYS:HG2	3	0.2
(1,3697)	1:92:A:GLY:H	1:91:A:LEU:HB2	5	0.2
(1,3607)	1:82:A:GLN:HE22	1:30:A:ILE:HG23	4	0.2
(1,3547)	1:77:A:ASP:H	1:78:A:THR:HG23	10	0.2
(1,3522)	1:75:A:ILE:H	1:76:A:LEU:HB3	5	0.2
(1,3522)	1:75:A:ILE:H	1:76:A:LEU:HB3	7	0.2
(1,3522)	1:75:A:ILE:H	1:76:A:LEU:HB3	9	0.2
(1,3483)	1:72:A:ASN:HD22	1:66:A:ILE:HG21	7	0.2
(1,3443)	1:70:A:GLU:H	1:68:A:ASN:HB3	9	0.2
(1,3257)	1:55:A:GLN:HE21	1:44:A:ILE:HG23	7	0.2
(1,3257)	1:55:A:GLN:HE21	1:44:A:ILE:HG21	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3244)	1:55:A:GLN:H	1:53:A:ARG:HD2	3	0.2
(1,3244)	1:55:A:GLN:H	1:53:A:ARG:HD2	9	0.2
(1,3169)	1:50:A:GLU:H	1:49:A:ILE:HG13	7	0.2
(1,3169)	1:50:A:GLU:H	1:49:A:ILE:HG13	10	0.2
(1,3087)	1:41:A:GLN:H	1:39:A:PHE:HB2	2	0.2
(1,3087)	1:41:A:GLN:H	1:39:A:PHE:HB2	7	0.2
(1,3087)	1:41:A:GLN:H	1:39:A:PHE:HB2	10	0.2
(1,2982)	1:31:A:GLN:HE21	1:157:A:ILE:HD13	5	0.2
(1,2750)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	1	0.2
(1,2668)	1:94:A:PHE:HD1	1:94:A:PHE:HZ	9	0.2
(1,2587)	1:40:A:LEU:HD23	1:59:A:HIS:HD2	6	0.2
(1,2447)	1:156:A:ALA:HB1	1:158:A:PRO:HA	1	0.2
(1,2446)	1:157:A:ILE:HG21	1:158:A:PRO:HD3	8	0.2
(1,2403)	1:156:A:ALA:HA	1:157:A:ILE:HG22	9	0.2
(1,2343)	1:153:A:CYS:HB3	1:152:A:LEU:HD11	6	0.2
(1,2330)	1:152:A:LEU:HD12	1:153:A:CYS:HA	8	0.2
(1,2312)	1:152:A:LEU:HD21	1:75:A:ILE:H	7	0.2
(1,2246)	1:149:A:GLU:HA	1:43:A:ALA:HB1	3	0.2
(1,2241)	1:148:A:VAL:HG22	1:146:A:SER:HA	1	0.2
(1,2241)	1:148:A:VAL:HG21	1:146:A:SER:HA	5	0.2
(1,2241)	1:148:A:VAL:HG22	1:146:A:SER:HA	8	0.2
(1,2072)	1:116:A:THR:HG21	1:137:A:GLU:HG2	4	0.2
(1,1983)	1:133:A:ILE:HD11	1:80:A:LYS:HE2	6	0.2
(1,1957)	1:91:A:LEU:HD22	1:131:A:LEU:HG	7	0.2
(1,1952)	1:131:A:LEU:HD21	1:136:A:GLY:HA2	2	0.2
(1,1928)	1:131:A:LEU:HD12	1:138:A:TRP:HA	3	0.2
(1,1927)	1:131:A:LEU:HD11	1:138:A:TRP:H	7	0.2
(1,1919)	1:131:A:LEU:HB3	1:131:A:LEU:HD11	4	0.2
(1,1890)	1:129:A:ALA:HB3	1:130:A:PHE:HA	8	0.2
(1,1884)	1:128:A:CYS:HA	1:129:A:ALA:HB3	7	0.2
(1,1880)	1:129:A:ALA:HB1	1:91:A:LEU:HD23	9	0.2
(1,1739)	1:116:A:THR:HA	1:117:A:ASP:HB2	2	0.2
(1,1739)	1:116:A:THR:HA	1:117:A:ASP:HB2	8	0.2
(1,1683)	1:114:A:LYS:HA	1:112:A:PHE:HD2	5	0.2
(1,1658)	1:112:A:PHE:HB2	1:66:A:ILE:HB	7	0.2
(1,1579)	1:103:A:LYS:HE3	1:103:A:LYS:HG2	8	0.2
(1,1567)	1:103:A:LYS:HD3	1:96:A:ASP:HA	2	0.2
(1,1567)	1:103:A:LYS:HD3	1:96:A:ASP:HA	10	0.2
(1,1539)	1:101:A:SER:HB2	1:102:A:PHE:HA	8	0.2
(1,1499)	1:97:A:THR:HG21	1:96:A:ASP:HA	3	0.2
(1,1496)	1:96:A:ASP:H	1:97:A:THR:HG21	7	0.2
(1,1424)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1424)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	3	0.2
(1,1424)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	8	0.2
(1,1414)	1:91:A:LEU:HD21	1:131:A:LEU:HB2	6	0.2
(1,1342)	1:90:A:LEU:HD23	1:63:A:MET:HB3	10	0.2
(1,1216)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	1	0.2
(1,1216)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	4	0.2
(1,1216)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	5	0.2
(1,1111)	1:79:A:LEU:HG	1:83:A:TRP:HB2	4	0.2
(1,1111)	1:79:A:LEU:HG	1:83:A:TRP:HB2	5	0.2
(1,1097)	1:79:A:LEU:HB3	1:79:A:LEU:HD22	4	0.2
(1,1097)	1:79:A:LEU:HB3	1:79:A:LEU:HD21	8	0.2
(1,1089)	1:79:A:LEU:HD13	1:79:A:LEU:HD21	2	0.2
(1,1089)	1:79:A:LEU:HD11	1:79:A:LEU:HD21	3	0.2
(1,1021)	1:76:A:LEU:HD21	1:72:A:ASN:HB3	4	0.2
(1,1004)	1:76:A:LEU:HD11	1:89:A:ILE:H	10	0.2
(1,929)	1:74:A:PHE:HA	1:32:A:PHE:HE1	6	0.2
(1,846)	1:69:A:GLU:HB3	1:73:A:ALA:HB2	7	0.2
(1,791)	1:66:A:ILE:HG13	1:66:A:ILE:HG22	10	0.2
(1,782)	1:66:A:ILE:HD13	1:92:A:GLY:H	3	0.2
(1,707)	1:64:A:ILE:HD12	1:152:A:LEU:HA	3	0.2
(1,556)	1:53:A:ARG:HB2	1:52:A:VAL:H	4	0.2
(1,538)	1:52:A:VAL:HG13	1:55:A:GLN:HE22	4	0.2
(1,536)	1:52:A:VAL:HB	1:53:A:ARG:HG3	10	0.2
(1,479)	1:49:A:ILE:HG12	1:90:A:LEU:HD12	6	0.2
(1,397)	1:45:A:LYS:HG3	1:46:A:VAL:HG21	6	0.2
(1,278)	1:40:A:LEU:HB2	1:38:A:ILE:HD11	1	0.2
(1,278)	1:40:A:LEU:HB2	1:38:A:ILE:HD13	2	0.2
(1,190)	1:36:A:CYS:HB3	1:156:A:ALA:HA	1	0.2
(1,178)	1:36:A:CYS:HA	1:37:A:TYR:HB3	1	0.2
(1,178)	1:36:A:CYS:HA	1:37:A:TYR:HB3	3	0.2
(1,178)	1:36:A:CYS:HA	1:37:A:TYR:HB3	4	0.2
(1,178)	1:36:A:CYS:HA	1:37:A:TYR:HB3	5	0.2
(1,178)	1:36:A:CYS:HA	1:37:A:TYR:HB3	6	0.2
(1,178)	1:36:A:CYS:HA	1:37:A:TYR:HB3	9	0.2
(1,178)	1:36:A:CYS:HA	1:37:A:TYR:HB3	10	0.2
(1,65)	1:28:A:THR:HG21	1:38:A:ILE:HD12	4	0.2
(1,9008)	1:142:A:ASN:HD21	1:127:A:THR:HG22	3	0.19
(1,8977)	1:140:A:LYS:H	1:139:A:LYS:HG3	5	0.19
(1,8873)	1:133:A:ILE:H	1:133:A:ILE:HG22	3	0.19
(1,8776)	1:123:A:ASP:H	1:122:A:GLU:HG2	3	0.19
(1,8495)	1:94:A:PHE:H	1:103:A:LYS:HG2	1	0.19
(1,8495)	1:94:A:PHE:H	1:103:A:LYS:HG2	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8464)	1:92:A:GLY:H	1:91:A:LEU:HB2	4	0.19
(1,8328)	1:78:A:THR:H	1:76:A:LEU:HB3	10	0.19
(1,8314)	1:77:A:ASP:H	1:78:A:THR:HG22	9	0.19
(1,8289)	1:75:A:ILE:H	1:76:A:LEU:HB3	3	0.19
(1,8264)	1:72:A:ASN:HD21	1:131:A:LEU:HD11	8	0.19
(1,8215)	1:70:A:GLU:H	1:70:A:GLU:HB3	6	0.19
(1,8047)	1:55:A:GLN:HE21	1:151:A:THR:HG22	1	0.19
(1,8047)	1:55:A:GLN:HE21	1:151:A:THR:HG21	7	0.19
(1,8024)	1:55:A:GLN:HE21	1:44:A:ILE:HG21	3	0.19
(1,7854)	1:41:A:GLN:H	1:39:A:PHE:HB2	3	0.19
(1,7588)	1:131:A:LEU:HG	1:138:A:TRP:HD1	4	0.19
(1,7517)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	10	0.19
(1,7453)	1:124:A:LEU:HD22	1:95:A:TYR:HE1	3	0.19
(1,7213)	1:157:A:ILE:HG21	1:158:A:PRO:HD3	2	0.19
(1,7206)	1:157:A:ILE:HG22	1:23:A:ASP:HA	2	0.19
(1,7107)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	9	0.19
(1,7079)	1:152:A:LEU:HD23	1:75:A:ILE:H	1	0.19
(1,7079)	1:152:A:LEU:HD21	1:75:A:ILE:H	6	0.19
(1,7008)	1:148:A:VAL:HG22	1:146:A:SER:HA	2	0.19
(1,7008)	1:148:A:VAL:HG23	1:146:A:SER:HA	3	0.19
(1,7008)	1:148:A:VAL:HG23	1:146:A:SER:HA	4	0.19
(1,7008)	1:148:A:VAL:HG21	1:146:A:SER:HA	6	0.19
(1,6756)	1:133:A:ILE:HG12	1:80:A:LYS:H	6	0.19
(1,6724)	1:91:A:LEU:HD22	1:131:A:LEU:HG	10	0.19
(1,6698)	1:131:A:LEU:HD23	1:73:A:ALA:HA	10	0.19
(1,6695)	1:131:A:LEU:HD12	1:138:A:TRP:HA	1	0.19
(1,6695)	1:131:A:LEU:HD13	1:138:A:TRP:HA	2	0.19
(1,6694)	1:131:A:LEU:HD12	1:138:A:TRP:H	3	0.19
(1,6658)	1:129:A:ALA:HB1	1:130:A:PHE:HD1	8	0.19
(1,6651)	1:128:A:CYS:HA	1:129:A:ALA:HB1	1	0.19
(1,6651)	1:128:A:CYS:HA	1:129:A:ALA:HB1	4	0.19
(1,6651)	1:128:A:CYS:HA	1:129:A:ALA:HB3	6	0.19
(1,6625)	1:90:A:LEU:HD12	1:128:A:CYS:HB2	8	0.19
(1,6538)	1:119:A:ASP:HB2	1:120:A:ASP:H	6	0.19
(1,6518)	1:115:A:TRP:HB3	1:116:A:THR:HG22	9	0.19
(1,6487)	1:114:A:LYS:HE2	1:137:A:GLU:HG2	9	0.19
(1,6450)	1:114:A:LYS:HA	1:112:A:PHE:HD2	2	0.19
(1,6450)	1:114:A:LYS:HA	1:112:A:PHE:HD2	4	0.19
(1,6425)	1:112:A:PHE:HB2	1:66:A:ILE:HB	4	0.19
(1,6425)	1:112:A:PHE:HB2	1:66:A:ILE:HB	8	0.19
(1,6334)	1:103:A:LYS:HD3	1:96:A:ASP:HA	1	0.19
(1,6266)	1:97:A:THR:HG21	1:96:A:ASP:HA	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6263)	1:96:A:ASP:H	1:97:A:THR:HG21	3	0.19
(1,6263)	1:96:A:ASP:H	1:97:A:THR:HG23	8	0.19
(1,6210)	1:93:A:MET:HB2	1:93:A:MET:HE1	5	0.19
(1,6191)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	7	0.19
(1,6166)	1:92:A:GLY:H	1:91:A:LEU:HD23	3	0.19
(1,6162)	1:91:A:LEU:HD11	1:138:A:TRP:HB3	2	0.19
(1,6162)	1:91:A:LEU:HD12	1:138:A:TRP:HB3	10	0.19
(1,6151)	1:91:A:LEU:HD11	1:91:A:LEU:HB3	10	0.19
(1,6132)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	3	0.19
(1,6132)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	9	0.19
(1,5983)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	2	0.19
(1,5983)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	7	0.19
(1,5983)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	8	0.19
(1,5983)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	9	0.19
(1,5978)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	1	0.19
(1,5978)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	4	0.19
(1,5978)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	5	0.19
(1,5978)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	8	0.19
(1,5978)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	9	0.19
(1,5940)	1:82:A:GLN:HG2	1:78:A:THR:HG22	5	0.19
(1,5856)	1:79:A:LEU:HD13	1:79:A:LEU:HD23	8	0.19
(1,5801)	1:77:A:ASP:HA	1:80:A:LYS:HB2	6	0.19
(1,5740)	1:75:A:ILE:HG22	1:83:A:TRP:HZ3	1	0.19
(1,5731)	1:75:A:ILE:HG13	1:71:A:GLU:HG2	9	0.19
(1,5582)	1:66:A:ILE:HG23	1:138:A:TRP:HZ3	3	0.19
(1,5582)	1:66:A:ILE:HG23	1:138:A:TRP:HZ3	9	0.19
(1,5572)	1:66:A:ILE:HG22	1:71:A:GLU:HB2	10	0.19
(1,5517)	1:65:A:SER:HA	1:66:A:ILE:HD12	5	0.19
(1,5487)	1:64:A:ILE:HD11	1:91:A:LEU:HD22	9	0.19
(1,5474)	1:64:A:ILE:HD11	1:152:A:LEU:HA	5	0.19
(1,5473)	1:64:A:ILE:HD12	1:130:A:PHE:HA	4	0.19
(1,5460)	1:63:A:MET:HG2	1:64:A:ILE:HG22	6	0.19
(1,5446)	1:63:A:MET:HE3	1:92:A:GLY:HA3	2	0.19
(1,5386)	1:57:A:THR:HG22	1:61:A:ALA:H	3	0.19
(1,5314)	1:52:A:VAL:HG11	1:53:A:ARG:HG3	7	0.19
(1,5246)	1:49:A:ILE:HG12	1:90:A:LEU:HD13	5	0.19
(1,5206)	1:48:A:SER:HA	1:46:A:VAL:HG12	4	0.19
(1,5184)	1:51:A:ASP:H	1:46:A:VAL:HG23	1	0.19
(1,5172)	1:46:A:VAL:HG12	1:52:A:VAL:HA	8	0.19
(1,5164)	1:45:A:LYS:HG3	1:46:A:VAL:HG22	1	0.19
(1,5148)	1:55:A:GLN:HE22	1:44:A:ILE:HG21	6	0.19
(1,5008)	1:38:A:ILE:HD13	1:153:A:CYS:HB2	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5008)	1:38:A:ILE:HD11	1:153:A:CYS:HB2	5	0.19
(1,5004)	1:39:A:PHE:H	1:38:A:ILE:HD12	4	0.19
(1,5004)	1:39:A:PHE:H	1:38:A:ILE:HD13	10	0.19
(1,4945)	1:36:A:CYS:HA	1:37:A:TYR:HB3	2	0.19
(1,4945)	1:36:A:CYS:HA	1:37:A:TYR:HB3	7	0.19
(1,4945)	1:36:A:CYS:HA	1:37:A:TYR:HB3	8	0.19
(1,4873)	1:31:A:GLN:H	1:30:A:ILE:HG21	4	0.19
(1,4873)	1:31:A:GLN:H	1:30:A:ILE:HG21	7	0.19
(1,4854)	1:82:A:GLN:HE22	1:30:A:ILE:HD13	4	0.19
(1,4744)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	4	0.19
(1,4727)	1:48:A:SER:H	1:45:A:LYS:HG3	9	0.19
(1,4712)	1:31:A:GLN:HE22	1:23:A:ASP:HA	6	0.19
(1,4692)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	8	0.19
(1,4687)	1:157:A:ILE:HD11	1:36:A:CYS:H	6	0.19
(1,4675)	1:142:A:ASN:HA	1:90:A:LEU:HD22	5	0.19
(1,4668)	1:131:A:LEU:HD22	1:91:A:LEU:HA	4	0.19
(1,4648)	1:79:A:LEU:HD21	1:80:A:LYS:H	5	0.19
(1,4619)	1:64:A:ILE:HD11	1:152:A:LEU:H	3	0.19
(1,4619)	1:64:A:ILE:HD11	1:152:A:LEU:H	7	0.19
(1,4565)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	4	0.19
(1,4548)	1:48:A:SER:H	1:45:A:LYS:HG3	9	0.19
(1,4533)	1:31:A:GLN:HE22	1:23:A:ASP:HA	6	0.19
(1,4513)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	8	0.19
(1,4508)	1:157:A:ILE:HD11	1:36:A:CYS:H	6	0.19
(1,4496)	1:142:A:ASN:HA	1:90:A:LEU:HD22	5	0.19
(1,4489)	1:131:A:LEU:HD22	1:91:A:LEU:HA	4	0.19
(1,4469)	1:79:A:LEU:HD21	1:80:A:LYS:H	5	0.19
(1,4440)	1:64:A:ILE:HD11	1:152:A:LEU:H	3	0.19
(1,4440)	1:64:A:ILE:HD11	1:152:A:LEU:H	7	0.19
(1,4241)	1:142:A:ASN:HD21	1:127:A:THR:HG22	3	0.19
(1,4210)	1:140:A:LYS:H	1:139:A:LYS:HG3	5	0.19
(1,4106)	1:133:A:ILE:H	1:133:A:ILE:HG22	3	0.19
(1,4009)	1:123:A:ASP:H	1:122:A:GLU:HG2	3	0.19
(1,3728)	1:94:A:PHE:H	1:103:A:LYS:HG2	1	0.19
(1,3728)	1:94:A:PHE:H	1:103:A:LYS:HG2	6	0.19
(1,3697)	1:92:A:GLY:H	1:91:A:LEU:HB2	4	0.19
(1,3561)	1:78:A:THR:H	1:76:A:LEU:HB3	10	0.19
(1,3547)	1:77:A:ASP:H	1:78:A:THR:HG22	9	0.19
(1,3522)	1:75:A:ILE:H	1:76:A:LEU:HB3	3	0.19
(1,3497)	1:72:A:ASN:HD21	1:131:A:LEU:HD11	8	0.19
(1,3448)	1:70:A:GLU:H	1:70:A:GLU:HB3	6	0.19
(1,3280)	1:55:A:GLN:HE21	1:151:A:THR:HG22	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3280)	1:55:A:GLN:HE21	1:151:A:THR:HG21	7	0.19
(1,3257)	1:55:A:GLN:HE21	1:44:A:ILE:HG21	3	0.19
(1,3087)	1:41:A:GLN:H	1:39:A:PHE:HB2	3	0.19
(1,2821)	1:131:A:LEU:HG	1:138:A:TRP:HD1	4	0.19
(1,2750)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	10	0.19
(1,2686)	1:124:A:LEU:HD22	1:95:A:TYR:HE1	3	0.19
(1,2446)	1:157:A:ILE:HG21	1:158:A:PRO:HD3	2	0.19
(1,2439)	1:157:A:ILE:HG22	1:23:A:ASP:HA	2	0.19
(1,2340)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	9	0.19
(1,2312)	1:152:A:LEU:HD23	1:75:A:ILE:H	1	0.19
(1,2312)	1:152:A:LEU:HD21	1:75:A:ILE:H	6	0.19
(1,2241)	1:148:A:VAL:HG22	1:146:A:SER:HA	2	0.19
(1,2241)	1:148:A:VAL:HG23	1:146:A:SER:HA	3	0.19
(1,2241)	1:148:A:VAL:HG23	1:146:A:SER:HA	4	0.19
(1,2241)	1:148:A:VAL:HG21	1:146:A:SER:HA	6	0.19
(1,1989)	1:133:A:ILE:HG12	1:80:A:LYS:H	6	0.19
(1,1957)	1:91:A:LEU:HD22	1:131:A:LEU:HG	10	0.19
(1,1931)	1:131:A:LEU:HD23	1:73:A:ALA:HA	10	0.19
(1,1928)	1:131:A:LEU:HD12	1:138:A:TRP:HA	1	0.19
(1,1928)	1:131:A:LEU:HD13	1:138:A:TRP:HA	2	0.19
(1,1927)	1:131:A:LEU:HD12	1:138:A:TRP:H	3	0.19
(1,1891)	1:129:A:ALA:HB1	1:130:A:PHE:HD1	8	0.19
(1,1884)	1:128:A:CYS:HA	1:129:A:ALA:HB1	1	0.19
(1,1884)	1:128:A:CYS:HA	1:129:A:ALA:HB1	4	0.19
(1,1884)	1:128:A:CYS:HA	1:129:A:ALA:HB3	6	0.19
(1,1858)	1:90:A:LEU:HD12	1:128:A:CYS:HB2	8	0.19
(1,1771)	1:119:A:ASP:HB2	1:120:A:ASP:H	6	0.19
(1,1751)	1:115:A:TRP:HB3	1:116:A:THR:HG22	9	0.19
(1,1720)	1:114:A:LYS:HE2	1:137:A:GLU:HG2	9	0.19
(1,1683)	1:114:A:LYS:HA	1:112:A:PHE:HD2	2	0.19
(1,1683)	1:114:A:LYS:HA	1:112:A:PHE:HD2	4	0.19
(1,1658)	1:112:A:PHE:HB2	1:66:A:ILE:HB	4	0.19
(1,1658)	1:112:A:PHE:HB2	1:66:A:ILE:HB	8	0.19
(1,1567)	1:103:A:LYS:HD3	1:96:A:ASP:HA	1	0.19
(1,1499)	1:97:A:THR:HG21	1:96:A:ASP:HA	1	0.19
(1,1496)	1:96:A:ASP:H	1:97:A:THR:HG21	3	0.19
(1,1496)	1:96:A:ASP:H	1:97:A:THR:HG23	8	0.19
(1,1443)	1:93:A:MET:HB2	1:93:A:MET:HE1	5	0.19
(1,1424)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	7	0.19
(1,1399)	1:92:A:GLY:H	1:91:A:LEU:HD23	3	0.19
(1,1395)	1:91:A:LEU:HD11	1:138:A:TRP:HB3	2	0.19
(1,1395)	1:91:A:LEU:HD12	1:138:A:TRP:HB3	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1384)	1:91:A:LEU:HD11	1:91:A:LEU:HB3	10	0.19
(1,1365)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	3	0.19
(1,1365)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	9	0.19
(1,1216)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	2	0.19
(1,1216)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	7	0.19
(1,1216)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	8	0.19
(1,1216)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	9	0.19
(1,1211)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	1	0.19
(1,1211)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	4	0.19
(1,1211)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	5	0.19
(1,1211)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	8	0.19
(1,1211)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	9	0.19
(1,1173)	1:82:A:GLN:HG2	1:78:A:THR:HG22	5	0.19
(1,1089)	1:79:A:LEU:HD13	1:79:A:LEU:HD23	8	0.19
(1,1034)	1:77:A:ASP:HA	1:80:A:LYS:HB2	6	0.19
(1,973)	1:75:A:ILE:HG22	1:83:A:TRP:HZ3	1	0.19
(1,964)	1:75:A:ILE:HG13	1:71:A:GLU:HG2	9	0.19
(1,815)	1:66:A:ILE:HG23	1:138:A:TRP:HZ3	3	0.19
(1,815)	1:66:A:ILE:HG23	1:138:A:TRP:HZ3	9	0.19
(1,805)	1:66:A:ILE:HG22	1:71:A:GLU:HB2	10	0.19
(1,750)	1:65:A:SER:HA	1:66:A:ILE:HD12	5	0.19
(1,720)	1:64:A:ILE:HD11	1:91:A:LEU:HD22	9	0.19
(1,707)	1:64:A:ILE:HD11	1:152:A:LEU:HA	5	0.19
(1,706)	1:64:A:ILE:HD12	1:130:A:PHE:HA	4	0.19
(1,693)	1:63:A:MET:HG2	1:64:A:ILE:HG22	6	0.19
(1,679)	1:63:A:MET:HE3	1:92:A:GLY:HA3	2	0.19
(1,619)	1:57:A:THR:HG22	1:61:A:ALA:H	3	0.19
(1,547)	1:52:A:VAL:HG11	1:53:A:ARG:HG3	7	0.19
(1,479)	1:49:A:ILE:HG12	1:90:A:LEU:HD13	5	0.19
(1,439)	1:48:A:SER:HA	1:46:A:VAL:HG12	4	0.19
(1,417)	1:51:A:ASP:H	1:46:A:VAL:HG23	1	0.19
(1,405)	1:46:A:VAL:HG12	1:52:A:VAL:HA	8	0.19
(1,397)	1:45:A:LYS:HG3	1:46:A:VAL:HG22	1	0.19
(1,381)	1:55:A:GLN:HE22	1:44:A:ILE:HG21	6	0.19
(1,241)	1:38:A:ILE:HD13	1:153:A:CYS:HB2	4	0.19
(1,241)	1:38:A:ILE:HD11	1:153:A:CYS:HB2	5	0.19
(1,237)	1:39:A:PHE:H	1:38:A:ILE:HD12	4	0.19
(1,237)	1:39:A:PHE:H	1:38:A:ILE:HD13	10	0.19
(1,178)	1:36:A:CYS:HA	1:37:A:TYR:HB3	2	0.19
(1,178)	1:36:A:CYS:HA	1:37:A:TYR:HB3	7	0.19
(1,178)	1:36:A:CYS:HA	1:37:A:TYR:HB3	8	0.19
(1,106)	1:31:A:GLN:H	1:30:A:ILE:HG21	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,106)	1:31:A:GLN:H	1:30:A:ILE:HG21	7	0.19
(1,87)	1:82:A:GLN:HE22	1:30:A:ILE:HD13	4	0.19
(1,9144)	1:156:A:ALA:H	1:155:A:THR:HG23	5	0.18
(1,8977)	1:140:A:LYS:H	1:139:A:LYS:HG3	6	0.18
(1,8776)	1:123:A:ASP:H	1:122:A:GLU:HG2	1	0.18
(1,8681)	1:112:A:PHE:H	1:112:A:PHE:HD1	7	0.18
(1,8681)	1:112:A:PHE:H	1:112:A:PHE:HD1	10	0.18
(1,8662)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	1	0.18
(1,8662)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	5	0.18
(1,8662)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	6	0.18
(1,8662)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	8	0.18
(1,8662)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	10	0.18
(1,8559)	1:102:A:PHE:H	1:101:A:SER:HB2	7	0.18
(1,8495)	1:94:A:PHE:H	1:103:A:LYS:HG2	7	0.18
(1,8495)	1:94:A:PHE:H	1:103:A:LYS:HG2	8	0.18
(1,8334)	1:78:A:THR:H	1:78:A:THR:HG22	9	0.18
(1,8328)	1:78:A:THR:H	1:76:A:LEU:HB3	3	0.18
(1,8328)	1:78:A:THR:H	1:76:A:LEU:HB3	5	0.18
(1,8328)	1:78:A:THR:H	1:76:A:LEU:HB3	7	0.18
(1,8264)	1:72:A:ASN:HD21	1:131:A:LEU:HD13	3	0.18
(1,8250)	1:72:A:ASN:HD22	1:66:A:ILE:HG21	3	0.18
(1,8247)	1:72:A:ASN:HD21	1:76:A:LEU:HG	2	0.18
(1,8047)	1:55:A:GLN:HE21	1:151:A:THR:HG22	3	0.18
(1,7588)	1:131:A:LEU:HG	1:138:A:TRP:HD1	8	0.18
(1,7479)	1:104:A:TRP:HE3	1:64:A:ILE:HG23	8	0.18
(1,7453)	1:124:A:LEU:HD23	1:95:A:TYR:HE1	10	0.18
(1,7354)	1:40:A:LEU:HD23	1:59:A:HIS:HD2	10	0.18
(1,7305)	1:32:A:PHE:H	1:32:A:PHE:HD1	4	0.18
(1,7170)	1:156:A:ALA:HA	1:157:A:ILE:HG23	4	0.18
(1,7107)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	6	0.18
(1,7008)	1:148:A:VAL:HG21	1:146:A:SER:HA	9	0.18
(1,7008)	1:148:A:VAL:HG21	1:146:A:SER:HA	10	0.18
(1,6974)	1:145:A:VAL:HG22	1:143:A:CYS:H	5	0.18
(1,6779)	1:133:A:ILE:HA	1:133:A:ILE:HG23	4	0.18
(1,6756)	1:133:A:ILE:HG12	1:80:A:LYS:H	8	0.18
(1,6719)	1:131:A:LEU:HD21	1:136:A:GLY:HA2	3	0.18
(1,6719)	1:131:A:LEU:HD23	1:136:A:GLY:HA2	10	0.18
(1,6695)	1:131:A:LEU:HD13	1:138:A:TRP:HA	5	0.18
(1,6658)	1:129:A:ALA:HB3	1:130:A:PHE:HD1	5	0.18
(1,6658)	1:129:A:ALA:HB2	1:130:A:PHE:HD1	10	0.18
(1,6656)	1:130:A:PHE:H	1:129:A:ALA:HB2	4	0.18
(1,6536)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6506)	1:116:A:THR:HA	1:117:A:ASP:HB2	7	0.18
(1,6425)	1:112:A:PHE:HB2	1:66:A:ILE:HB	1	0.18
(1,6425)	1:112:A:PHE:HB2	1:66:A:ILE:HB	5	0.18
(1,6334)	1:103:A:LYS:HD3	1:96:A:ASP:HA	5	0.18
(1,6334)	1:103:A:LYS:HD3	1:96:A:ASP:HA	6	0.18
(1,6334)	1:103:A:LYS:HD3	1:96:A:ASP:HA	8	0.18
(1,6306)	1:101:A:SER:HB2	1:102:A:PHE:HA	1	0.18
(1,6306)	1:101:A:SER:HB2	1:102:A:PHE:HA	2	0.18
(1,6306)	1:101:A:SER:HB2	1:102:A:PHE:HA	7	0.18
(1,6283)	1:100:A:ALA:HA	1:103:A:LYS:HE2	5	0.18
(1,6266)	1:97:A:THR:HG23	1:96:A:ASP:HA	4	0.18
(1,6266)	1:97:A:THR:HG21	1:96:A:ASP:HA	7	0.18
(1,6191)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	4	0.18
(1,6151)	1:91:A:LEU:HD12	1:91:A:LEU:HB3	6	0.18
(1,6132)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	6	0.18
(1,6132)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	7	0.18
(1,6132)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	10	0.18
(1,5983)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	10	0.18
(1,5878)	1:79:A:LEU:HG	1:83:A:TRP:HB2	6	0.18
(1,5864)	1:79:A:LEU:HB3	1:79:A:LEU:HD22	3	0.18
(1,5856)	1:79:A:LEU:HD11	1:79:A:LEU:HD23	6	0.18
(1,5856)	1:79:A:LEU:HD11	1:79:A:LEU:HD21	9	0.18
(1,5776)	1:76:A:LEU:HD12	1:133:A:ILE:HA	6	0.18
(1,5776)	1:76:A:LEU:HD13	1:133:A:ILE:HA	8	0.18
(1,5771)	1:76:A:LEU:HD12	1:89:A:ILE:H	9	0.18
(1,5743)	1:75:A:ILE:HG21	1:78:A:THR:HB	8	0.18
(1,5731)	1:75:A:ILE:HG13	1:71:A:GLU:HG2	3	0.18
(1,5731)	1:75:A:ILE:HG13	1:71:A:GLU:HG2	7	0.18
(1,5731)	1:75:A:ILE:HG13	1:71:A:GLU:HG2	8	0.18
(1,5706)	1:74:A:PHE:HB3	1:73:A:ALA:HB1	8	0.18
(1,5571)	1:66:A:ILE:HG22	1:71:A:GLU:HG3	3	0.18
(1,5571)	1:66:A:ILE:HG22	1:71:A:GLU:HG3	7	0.18
(1,5517)	1:65:A:SER:HA	1:66:A:ILE:HD13	3	0.18
(1,5474)	1:64:A:ILE:HD11	1:152:A:LEU:HA	1	0.18
(1,5446)	1:63:A:MET:HE3	1:92:A:GLY:HA3	3	0.18
(1,5446)	1:63:A:MET:HE2	1:92:A:GLY:HA3	9	0.18
(1,5446)	1:63:A:MET:HE3	1:92:A:GLY:HA3	10	0.18
(1,5444)	1:63:A:MET:HE3	1:91:A:LEU:HA	7	0.18
(1,5413)	1:61:A:ALA:HB3	1:56:A:CYS:H	3	0.18
(1,5413)	1:61:A:ALA:HB3	1:56:A:CYS:H	4	0.18
(1,5323)	1:53:A:ARG:HB2	1:52:A:VAL:H	3	0.18
(1,5303)	1:52:A:VAL:HB	1:53:A:ARG:HG3	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5235)	1:49:A:ILE:HD11	1:143:A:CYS:HA	8	0.18
(1,5212)	1:48:A:SER:HB2	1:46:A:VAL:HG13	1	0.18
(1,5206)	1:48:A:SER:HA	1:46:A:VAL:HG13	8	0.18
(1,5184)	1:51:A:ASP:H	1:46:A:VAL:HG23	8	0.18
(1,5172)	1:46:A:VAL:HG13	1:52:A:VAL:HA	2	0.18
(1,5027)	1:38:A:ILE:HG21	1:40:A:LEU:HA	1	0.18
(1,5005)	1:40:A:LEU:H	1:38:A:ILE:HD13	4	0.18
(1,4867)	1:30:A:ILE:H	1:30:A:ILE:HG23	6	0.18
(1,4744)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	3	0.18
(1,4744)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	7	0.18
(1,4744)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	8	0.18
(1,4744)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	9	0.18
(1,4712)	1:31:A:GLN:HE22	1:34:A:ASP:HA	9	0.18
(1,4705)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	1	0.18
(1,4705)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	8	0.18
(1,4692)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	7	0.18
(1,4679)	1:151:A:THR:HG21	1:56:A:CYS:HB3	1	0.18
(1,4668)	1:131:A:LEU:HD22	1:91:A:LEU:HA	2	0.18
(1,4648)	1:79:A:LEU:HD23	1:80:A:LYS:H	9	0.18
(1,4636)	1:75:A:ILE:HG23	1:64:A:ILE:HG13	2	0.18
(1,4565)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	3	0.18
(1,4565)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	7	0.18
(1,4565)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	8	0.18
(1,4565)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	9	0.18
(1,4533)	1:31:A:GLN:HE22	1:34:A:ASP:HA	9	0.18
(1,4526)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	1	0.18
(1,4526)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	8	0.18
(1,4513)	1:37:A:TYR:HD1	1:32:A:PHE:HD2	7	0.18
(1,4500)	1:151:A:THR:HG21	1:56:A:CYS:HB3	1	0.18
(1,4489)	1:131:A:LEU:HD22	1:91:A:LEU:HA	2	0.18
(1,4469)	1:79:A:LEU:HD23	1:80:A:LYS:H	9	0.18
(1,4457)	1:75:A:ILE:HG23	1:64:A:ILE:HG13	2	0.18
(1,4377)	1:156:A:ALA:H	1:155:A:THR:HG23	5	0.18
(1,4210)	1:140:A:LYS:H	1:139:A:LYS:HG3	6	0.18
(1,4009)	1:123:A:ASP:H	1:122:A:GLU:HG2	1	0.18
(1,3914)	1:112:A:PHE:H	1:112:A:PHE:HD1	7	0.18
(1,3914)	1:112:A:PHE:H	1:112:A:PHE:HD1	10	0.18
(1,3895)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	1	0.18
(1,3895)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	5	0.18
(1,3895)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	6	0.18
(1,3895)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	8	0.18
(1,3895)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3792)	1:102:A:PHE:H	1:101:A:SER:HB2	7	0.18
(1,3728)	1:94:A:PHE:H	1:103:A:LYS:HG2	7	0.18
(1,3728)	1:94:A:PHE:H	1:103:A:LYS:HG2	8	0.18
(1,3567)	1:78:A:THR:H	1:78:A:THR:HG22	9	0.18
(1,3561)	1:78:A:THR:H	1:76:A:LEU:HB3	3	0.18
(1,3561)	1:78:A:THR:H	1:76:A:LEU:HB3	5	0.18
(1,3561)	1:78:A:THR:H	1:76:A:LEU:HB3	7	0.18
(1,3497)	1:72:A:ASN:HD21	1:131:A:LEU:HD13	3	0.18
(1,3483)	1:72:A:ASN:HD22	1:66:A:ILE:HG21	3	0.18
(1,3480)	1:72:A:ASN:HD21	1:76:A:LEU:HG	2	0.18
(1,3280)	1:55:A:GLN:HE21	1:151:A:THR:HG22	3	0.18
(1,2821)	1:131:A:LEU:HG	1:138:A:TRP:HD1	8	0.18
(1,2712)	1:104:A:TRP:HE3	1:64:A:ILE:HG23	8	0.18
(1,2686)	1:124:A:LEU:HD23	1:95:A:TYR:HE1	10	0.18
(1,2587)	1:40:A:LEU:HD23	1:59:A:HIS:HD2	10	0.18
(1,2538)	1:32:A:PHE:H	1:32:A:PHE:HD1	4	0.18
(1,2403)	1:156:A:ALA:HA	1:157:A:ILE:HG23	4	0.18
(1,2340)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	6	0.18
(1,2241)	1:148:A:VAL:HG21	1:146:A:SER:HA	9	0.18
(1,2241)	1:148:A:VAL:HG21	1:146:A:SER:HA	10	0.18
(1,2207)	1:145:A:VAL:HG22	1:143:A:CYS:H	5	0.18
(1,2012)	1:133:A:ILE:HA	1:133:A:ILE:HG23	4	0.18
(1,1989)	1:133:A:ILE:HG12	1:80:A:LYS:H	8	0.18
(1,1952)	1:131:A:LEU:HD21	1:136:A:GLY:HA2	3	0.18
(1,1952)	1:131:A:LEU:HD23	1:136:A:GLY:HA2	10	0.18
(1,1928)	1:131:A:LEU:HD13	1:138:A:TRP:HA	5	0.18
(1,1891)	1:129:A:ALA:HB3	1:130:A:PHE:HD1	5	0.18
(1,1891)	1:129:A:ALA:HB2	1:130:A:PHE:HD1	10	0.18
(1,1889)	1:130:A:PHE:H	1:129:A:ALA:HB2	4	0.18
(1,1769)	1:119:A:ASP:HB3	1:118:A:GLN:HB3	2	0.18
(1,1739)	1:116:A:THR:HA	1:117:A:ASP:HB2	7	0.18
(1,1658)	1:112:A:PHE:HB2	1:66:A:ILE:HB	1	0.18
(1,1658)	1:112:A:PHE:HB2	1:66:A:ILE:HB	5	0.18
(1,1567)	1:103:A:LYS:HD3	1:96:A:ASP:HA	5	0.18
(1,1567)	1:103:A:LYS:HD3	1:96:A:ASP:HA	6	0.18
(1,1567)	1:103:A:LYS:HD3	1:96:A:ASP:HA	8	0.18
(1,1539)	1:101:A:SER:HB2	1:102:A:PHE:HA	1	0.18
(1,1539)	1:101:A:SER:HB2	1:102:A:PHE:HA	2	0.18
(1,1539)	1:101:A:SER:HB2	1:102:A:PHE:HA	7	0.18
(1,1516)	1:100:A:ALA:HA	1:103:A:LYS:HE2	5	0.18
(1,1499)	1:97:A:THR:HG23	1:96:A:ASP:HA	4	0.18
(1,1499)	1:97:A:THR:HG21	1:96:A:ASP:HA	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1424)	1:92:A:GLY:HA2	1:64:A:ILE:HG12	4	0.18
(1,1384)	1:91:A:LEU:HD12	1:91:A:LEU:HB3	6	0.18
(1,1365)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	6	0.18
(1,1365)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	7	0.18
(1,1365)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	10	0.18
(1,1216)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	10	0.18
(1,1111)	1:79:A:LEU:HG	1:83:A:TRP:HB2	6	0.18
(1,1097)	1:79:A:LEU:HB3	1:79:A:LEU:HD22	3	0.18
(1,1089)	1:79:A:LEU:HD11	1:79:A:LEU:HD23	6	0.18
(1,1089)	1:79:A:LEU:HD11	1:79:A:LEU:HD21	9	0.18
(1,1009)	1:76:A:LEU:HD12	1:133:A:ILE:HA	6	0.18
(1,1009)	1:76:A:LEU:HD13	1:133:A:ILE:HA	8	0.18
(1,1004)	1:76:A:LEU:HD12	1:89:A:ILE:H	9	0.18
(1,976)	1:75:A:ILE:HG21	1:78:A:THR:HB	8	0.18
(1,964)	1:75:A:ILE:HG13	1:71:A:GLU:HG2	3	0.18
(1,964)	1:75:A:ILE:HG13	1:71:A:GLU:HG2	7	0.18
(1,964)	1:75:A:ILE:HG13	1:71:A:GLU:HG2	8	0.18
(1,939)	1:74:A:PHE:HB3	1:73:A:ALA:HB1	8	0.18
(1,804)	1:66:A:ILE:HG22	1:71:A:GLU:HG3	3	0.18
(1,804)	1:66:A:ILE:HG22	1:71:A:GLU:HG3	7	0.18
(1,750)	1:65:A:SER:HA	1:66:A:ILE:HD13	3	0.18
(1,707)	1:64:A:ILE:HD11	1:152:A:LEU:HA	1	0.18
(1,679)	1:63:A:MET:HE3	1:92:A:GLY:HA3	3	0.18
(1,679)	1:63:A:MET:HE2	1:92:A:GLY:HA3	9	0.18
(1,679)	1:63:A:MET:HE3	1:92:A:GLY:HA3	10	0.18
(1,677)	1:63:A:MET:HE3	1:91:A:LEU:HA	7	0.18
(1,646)	1:61:A:ALA:HB3	1:56:A:CYS:H	3	0.18
(1,646)	1:61:A:ALA:HB3	1:56:A:CYS:H	4	0.18
(1,556)	1:53:A:ARG:HB2	1:52:A:VAL:H	3	0.18
(1,536)	1:52:A:VAL:HB	1:53:A:ARG:HG3	1	0.18
(1,468)	1:49:A:ILE:HD11	1:143:A:CYS:HA	8	0.18
(1,445)	1:48:A:SER:HB2	1:46:A:VAL:HG13	1	0.18
(1,439)	1:48:A:SER:HA	1:46:A:VAL:HG13	8	0.18
(1,417)	1:51:A:ASP:H	1:46:A:VAL:HG23	8	0.18
(1,405)	1:46:A:VAL:HG13	1:52:A:VAL:HA	2	0.18
(1,260)	1:38:A:ILE:HG21	1:40:A:LEU:HA	1	0.18
(1,238)	1:40:A:LEU:H	1:38:A:ILE:HD13	4	0.18
(1,100)	1:30:A:ILE:H	1:30:A:ILE:HG23	6	0.18
(1,9012)	1:142:A:ASN:HD22	1:124:A:LEU:HD23	6	0.17
(1,9008)	1:142:A:ASN:HD21	1:127:A:THR:HG21	10	0.17
(1,8977)	1:140:A:LYS:H	1:139:A:LYS:HG3	10	0.17
(1,8873)	1:133:A:ILE:H	1:133:A:ILE:HG21	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8662)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	2	0.17
(1,8662)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	3	0.17
(1,8662)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	4	0.17
(1,8499)	1:95:A:TYR:H	1:94:A:PHE:HB3	2	0.17
(1,8499)	1:95:A:TYR:H	1:94:A:PHE:HB3	4	0.17
(1,8495)	1:94:A:PHE:H	1:103:A:LYS:HG2	2	0.17
(1,8495)	1:94:A:PHE:H	1:103:A:LYS:HG2	9	0.17
(1,8495)	1:94:A:PHE:H	1:103:A:LYS:HG2	10	0.17
(1,8328)	1:78:A:THR:H	1:76:A:LEU:HB3	9	0.17
(1,8247)	1:72:A:ASN:HD21	1:76:A:LEU:HG	10	0.17
(1,8222)	1:71:A:GLU:H	1:66:A:ILE:HD11	10	0.17
(1,8215)	1:70:A:GLU:H	1:70:A:GLU:HB3	4	0.17
(1,8210)	1:70:A:GLU:H	1:68:A:ASN:HB3	6	0.17
(1,8047)	1:55:A:GLN:HE21	1:151:A:THR:HG22	5	0.17
(1,7749)	1:31:A:GLN:HE21	1:157:A:ILE:HD11	4	0.17
(1,7592)	1:131:A:LEU:HD22	1:138:A:TRP:HD1	10	0.17
(1,7533)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	3	0.17
(1,7533)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	4	0.17
(1,7533)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	6	0.17
(1,7533)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	7	0.17
(1,7533)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	10	0.17
(1,7523)	1:69:A:GLU:H	1:112:A:PHE:HD1	5	0.17
(1,7456)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	4	0.17
(1,7303)	1:32:A:PHE:HD1	1:33:A:GLN:HG3	8	0.17
(1,7275)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	3	0.17
(1,7205)	1:157:A:ILE:HG21	1:23:A:ASP:HB2	10	0.17
(1,7186)	1:35:A:SER:H	1:157:A:ILE:HD11	8	0.17
(1,7107)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	3	0.17
(1,7107)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	4	0.17
(1,7107)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	8	0.17
(1,6972)	1:145:A:VAL:H	1:145:A:VAL:HG12	3	0.17
(1,6789)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	1	0.17
(1,6789)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	2	0.17
(1,6789)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	5	0.17
(1,6756)	1:133:A:ILE:HG12	1:80:A:LYS:H	1	0.17
(1,6756)	1:133:A:ILE:HG12	1:80:A:LYS:H	2	0.17
(1,6756)	1:133:A:ILE:HG12	1:80:A:LYS:H	5	0.17
(1,6756)	1:133:A:ILE:HG12	1:80:A:LYS:H	7	0.17
(1,6756)	1:133:A:ILE:HG12	1:80:A:LYS:H	10	0.17
(1,6724)	1:91:A:LEU:HD22	1:131:A:LEU:HG	2	0.17
(1,6695)	1:131:A:LEU:HD11	1:138:A:TRP:HA	10	0.17
(1,6644)	1:129:A:ALA:HB2	1:91:A:LEU:HA	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6601)	1:142:A:ASN:HD21	1:125:A:VAL:HG23	3	0.17
(1,6450)	1:114:A:LYS:HA	1:112:A:PHE:HD2	8	0.17
(1,6425)	1:112:A:PHE:HB2	1:66:A:ILE:HB	9	0.17
(1,6306)	1:101:A:SER:HB2	1:102:A:PHE:HA	6	0.17
(1,6289)	1:100:A:ALA:H	1:100:A:ALA:HB2	3	0.17
(1,6287)	1:99:A:ASP:H	1:100:A:ALA:HB2	6	0.17
(1,6266)	1:97:A:THR:HG23	1:96:A:ASP:HA	8	0.17
(1,6266)	1:97:A:THR:HG22	1:96:A:ASP:HA	9	0.17
(1,6266)	1:97:A:THR:HG22	1:96:A:ASP:HA	10	0.17
(1,6132)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	2	0.17
(1,6109)	1:90:A:LEU:HD22	1:63:A:MET:HB3	2	0.17
(1,6080)	1:90:A:LEU:HB3	1:148:A:VAL:HB	6	0.17
(1,6015)	1:86:A:PRO:HG2	1:85:A:GLY:H	6	0.17
(1,6015)	1:86:A:PRO:HG2	1:85:A:GLY:H	7	0.17
(1,6015)	1:86:A:PRO:HG2	1:85:A:GLY:H	8	0.17
(1,6015)	1:86:A:PRO:HG2	1:85:A:GLY:H	9	0.17
(1,5983)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	6	0.17
(1,5978)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	2	0.17
(1,5978)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	10	0.17
(1,5864)	1:79:A:LEU:HB3	1:79:A:LEU:HD21	7	0.17
(1,5856)	1:79:A:LEU:HD12	1:79:A:LEU:HD21	4	0.17
(1,5801)	1:77:A:ASP:HA	1:80:A:LYS:HB2	2	0.17
(1,5771)	1:76:A:LEU:HD13	1:89:A:ILE:H	2	0.17
(1,5576)	1:66:A:ILE:HG21	1:91:A:LEU:HD23	10	0.17
(1,5547)	1:66:A:ILE:HD11	1:75:A:ILE:HA	3	0.17
(1,5547)	1:66:A:ILE:HD11	1:75:A:ILE:HA	9	0.17
(1,5486)	1:64:A:ILE:HD12	1:64:A:ILE:HD11	1	0.17
(1,5486)	1:64:A:ILE:HD11	1:64:A:ILE:HD13	2	0.17
(1,5486)	1:64:A:ILE:HD12	1:64:A:ILE:HD11	3	0.17
(1,5486)	1:64:A:ILE:HD11	1:64:A:ILE:HD13	4	0.17
(1,5486)	1:64:A:ILE:HD11	1:64:A:ILE:HD13	5	0.17
(1,5486)	1:64:A:ILE:HD11	1:64:A:ILE:HD13	6	0.17
(1,5486)	1:64:A:ILE:HD12	1:64:A:ILE:HD11	7	0.17
(1,5486)	1:64:A:ILE:HD12	1:64:A:ILE:HD13	8	0.17
(1,5460)	1:63:A:MET:HG2	1:64:A:ILE:HG22	1	0.17
(1,5460)	1:63:A:MET:HG2	1:64:A:ILE:HG23	2	0.17
(1,5446)	1:63:A:MET:HE2	1:92:A:GLY:HA3	1	0.17
(1,5446)	1:63:A:MET:HE3	1:92:A:GLY:HA3	6	0.17
(1,5446)	1:63:A:MET:HE3	1:92:A:GLY:HA3	7	0.17
(1,5413)	1:61:A:ALA:HB3	1:56:A:CYS:H	1	0.17
(1,5386)	1:57:A:THR:HG22	1:61:A:ALA:H	7	0.17
(1,5354)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5323)	1:53:A:ARG:HB2	1:52:A:VAL:H	5	0.17
(1,5304)	1:52:A:VAL:HG12	1:48:A:SER:HA	4	0.17
(1,5304)	1:52:A:VAL:HG11	1:48:A:SER:HA	8	0.17
(1,5303)	1:52:A:VAL:HB	1:53:A:ARG:HG3	7	0.17
(1,5212)	1:48:A:SER:HB2	1:46:A:VAL:HG12	4	0.17
(1,5212)	1:48:A:SER:HB2	1:46:A:VAL:HG11	9	0.17
(1,5027)	1:38:A:ILE:HG22	1:40:A:LEU:HA	10	0.17
(1,5004)	1:39:A:PHE:H	1:38:A:ILE:HD13	5	0.17
(1,5002)	1:38:A:ILE:HD11	1:38:A:ILE:HD13	1	0.17
(1,5002)	1:38:A:ILE:HD12	1:38:A:ILE:HD11	2	0.17
(1,5002)	1:38:A:ILE:HD12	1:38:A:ILE:HD11	3	0.17
(1,5002)	1:38:A:ILE:HD11	1:38:A:ILE:HD13	4	0.17
(1,5002)	1:38:A:ILE:HD12	1:38:A:ILE:HD11	5	0.17
(1,5002)	1:38:A:ILE:HD12	1:38:A:ILE:HD13	6	0.17
(1,5002)	1:38:A:ILE:HD12	1:38:A:ILE:HD11	7	0.17
(1,5002)	1:38:A:ILE:HD12	1:38:A:ILE:HD11	8	0.17
(1,5002)	1:38:A:ILE:HD11	1:38:A:ILE:HD13	9	0.17
(1,5002)	1:38:A:ILE:HD12	1:38:A:ILE:HD13	10	0.17
(1,4992)	1:28:A:THR:HA	1:38:A:ILE:HD12	10	0.17
(1,4925)	1:35:A:SER:HA	1:157:A:ILE:HD13	2	0.17
(1,4748)	1:96:A:ASP:H	1:95:A:TYR:HB3	6	0.17
(1,4744)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	1	0.17
(1,4744)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	2	0.17
(1,4744)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	5	0.17
(1,4744)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	10	0.17
(1,4736)	1:73:A:ALA:H	1:76:A:LEU:HD21	8	0.17
(1,4725)	1:43:A:ALA:H	1:149:A:GLU:HB3	6	0.17
(1,4709)	1:31:A:GLN:H	1:31:A:GLN:HE21	8	0.17
(1,4682)	1:152:A:LEU:HD13	1:79:A:LEU:H	6	0.17
(1,4668)	1:131:A:LEU:HD22	1:91:A:LEU:HA	3	0.17
(1,4668)	1:131:A:LEU:HD23	1:91:A:LEU:HA	5	0.17
(1,4648)	1:79:A:LEU:HD23	1:80:A:LYS:H	3	0.17
(1,4619)	1:64:A:ILE:HD13	1:152:A:LEU:H	2	0.17
(1,4600)	1:49:A:ILE:HB	1:90:A:LEU:HD11	1	0.17
(1,4569)	1:96:A:ASP:H	1:95:A:TYR:HB3	6	0.17
(1,4565)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	1	0.17
(1,4565)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	2	0.17
(1,4565)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	5	0.17
(1,4565)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	10	0.17
(1,4557)	1:73:A:ALA:H	1:76:A:LEU:HD21	8	0.17
(1,4546)	1:43:A:ALA:H	1:149:A:GLU:HB3	6	0.17
(1,4530)	1:31:A:GLN:H	1:31:A:GLN:HE21	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4503)	1:152:A:LEU:HD13	1:79:A:LEU:H	6	0.17
(1,4489)	1:131:A:LEU:HD22	1:91:A:LEU:HA	3	0.17
(1,4489)	1:131:A:LEU:HD23	1:91:A:LEU:HA	5	0.17
(1,4469)	1:79:A:LEU:HD23	1:80:A:LYS:H	3	0.17
(1,4440)	1:64:A:ILE:HD13	1:152:A:LEU:H	2	0.17
(1,4421)	1:49:A:ILE:HB	1:90:A:LEU:HD11	1	0.17
(1,4245)	1:142:A:ASN:HD22	1:124:A:LEU:HD23	6	0.17
(1,4241)	1:142:A:ASN:HD21	1:127:A:THR:HG21	10	0.17
(1,4210)	1:140:A:LYS:H	1:139:A:LYS:HG3	10	0.17
(1,4106)	1:133:A:ILE:H	1:133:A:ILE:HG21	10	0.17
(1,3895)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	2	0.17
(1,3895)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	3	0.17
(1,3895)	1:109:A:ASN:HD22	1:109:A:ASN:HB2	4	0.17
(1,3732)	1:95:A:TYR:H	1:94:A:PHE:HB3	2	0.17
(1,3732)	1:95:A:TYR:H	1:94:A:PHE:HB3	4	0.17
(1,3728)	1:94:A:PHE:H	1:103:A:LYS:HG2	2	0.17
(1,3728)	1:94:A:PHE:H	1:103:A:LYS:HG2	9	0.17
(1,3728)	1:94:A:PHE:H	1:103:A:LYS:HG2	10	0.17
(1,3561)	1:78:A:THR:H	1:76:A:LEU:HB3	9	0.17
(1,3480)	1:72:A:ASN:HD21	1:76:A:LEU:HG	10	0.17
(1,3455)	1:71:A:GLU:H	1:66:A:ILE:HD11	10	0.17
(1,3448)	1:70:A:GLU:H	1:70:A:GLU:HB3	4	0.17
(1,3443)	1:70:A:GLU:H	1:68:A:ASN:HB3	6	0.17
(1,3280)	1:55:A:GLN:HE21	1:151:A:THR:HG22	5	0.17
(1,2982)	1:31:A:GLN:HE21	1:157:A:ILE:HD11	4	0.17
(1,2825)	1:131:A:LEU:HD22	1:138:A:TRP:HD1	10	0.17
(1,2766)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	3	0.17
(1,2766)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	4	0.17
(1,2766)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	6	0.17
(1,2766)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	7	0.17
(1,2766)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	10	0.17
(1,2756)	1:69:A:GLU:H	1:112:A:PHE:HD1	5	0.17
(1,2689)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	4	0.17
(1,2536)	1:32:A:PHE:HD1	1:33:A:GLN:HG3	8	0.17
(1,2508)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	3	0.17
(1,2438)	1:157:A:ILE:HG21	1:23:A:ASP:HB2	10	0.17
(1,2419)	1:35:A:SER:H	1:157:A:ILE:HD11	8	0.17
(1,2340)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	3	0.17
(1,2340)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	4	0.17
(1,2340)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	8	0.17
(1,2205)	1:145:A:VAL:H	1:145:A:VAL:HG12	3	0.17
(1,2022)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	1	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2022)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	2	0.17
(1,2022)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	5	0.17
(1,1989)	1:133:A:ILE:HG12	1:80:A:LYS:H	1	0.17
(1,1989)	1:133:A:ILE:HG12	1:80:A:LYS:H	2	0.17
(1,1989)	1:133:A:ILE:HG12	1:80:A:LYS:H	5	0.17
(1,1989)	1:133:A:ILE:HG12	1:80:A:LYS:H	7	0.17
(1,1989)	1:133:A:ILE:HG12	1:80:A:LYS:H	10	0.17
(1,1957)	1:91:A:LEU:HD22	1:131:A:LEU:HG	2	0.17
(1,1928)	1:131:A:LEU:HD11	1:138:A:TRP:HA	10	0.17
(1,1877)	1:129:A:ALA:HB2	1:91:A:LEU:HA	3	0.17
(1,1834)	1:142:A:ASN:HD21	1:125:A:VAL:HG23	3	0.17
(1,1683)	1:114:A:LYS:HA	1:112:A:PHE:HD2	8	0.17
(1,1658)	1:112:A:PHE:HB2	1:66:A:ILE:HB	9	0.17
(1,1539)	1:101:A:SER:HB2	1:102:A:PHE:HA	6	0.17
(1,1522)	1:100:A:ALA:H	1:100:A:ALA:HB2	3	0.17
(1,1520)	1:99:A:ASP:H	1:100:A:ALA:HB2	6	0.17
(1,1499)	1:97:A:THR:HG23	1:96:A:ASP:HA	8	0.17
(1,1499)	1:97:A:THR:HG22	1:96:A:ASP:HA	9	0.17
(1,1499)	1:97:A:THR:HG22	1:96:A:ASP:HA	10	0.17
(1,1365)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	2	0.17
(1,1342)	1:90:A:LEU:HD22	1:63:A:MET:HB3	2	0.17
(1,1313)	1:90:A:LEU:HB3	1:148:A:VAL:HB	6	0.17
(1,1248)	1:86:A:PRO:HG2	1:85:A:GLY:H	6	0.17
(1,1248)	1:86:A:PRO:HG2	1:85:A:GLY:H	7	0.17
(1,1248)	1:86:A:PRO:HG2	1:85:A:GLY:H	8	0.17
(1,1248)	1:86:A:PRO:HG2	1:85:A:GLY:H	9	0.17
(1,1216)	1:86:A:PRO:HB3	1:85:A:GLY:HA3	6	0.17
(1,1211)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	2	0.17
(1,1211)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	10	0.17
(1,1097)	1:79:A:LEU:HB3	1:79:A:LEU:HD21	7	0.17
(1,1089)	1:79:A:LEU:HD12	1:79:A:LEU:HD21	4	0.17
(1,1034)	1:77:A:ASP:HA	1:80:A:LYS:HB2	2	0.17
(1,1004)	1:76:A:LEU:HD13	1:89:A:ILE:H	2	0.17
(1,809)	1:66:A:ILE:HG21	1:91:A:LEU:HD23	10	0.17
(1,780)	1:66:A:ILE:HD11	1:75:A:ILE:HA	3	0.17
(1,780)	1:66:A:ILE:HD11	1:75:A:ILE:HA	9	0.17
(1,719)	1:64:A:ILE:HD12	1:64:A:ILE:HD11	1	0.17
(1,719)	1:64:A:ILE:HD11	1:64:A:ILE:HD13	2	0.17
(1,719)	1:64:A:ILE:HD12	1:64:A:ILE:HD11	3	0.17
(1,719)	1:64:A:ILE:HD11	1:64:A:ILE:HD13	4	0.17
(1,719)	1:64:A:ILE:HD11	1:64:A:ILE:HD13	5	0.17
(1,719)	1:64:A:ILE:HD11	1:64:A:ILE:HD13	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,719)	1:64:A:ILE:HD12	1:64:A:ILE:HD11	7	0.17
(1,719)	1:64:A:ILE:HD12	1:64:A:ILE:HD13	8	0.17
(1,693)	1:63:A:MET:HG2	1:64:A:ILE:HG22	1	0.17
(1,693)	1:63:A:MET:HG2	1:64:A:ILE:HG23	2	0.17
(1,679)	1:63:A:MET:HE2	1:92:A:GLY:HA3	1	0.17
(1,679)	1:63:A:MET:HE3	1:92:A:GLY:HA3	6	0.17
(1,679)	1:63:A:MET:HE3	1:92:A:GLY:HA3	7	0.17
(1,646)	1:61:A:ALA:HB3	1:56:A:CYS:H	1	0.17
(1,619)	1:57:A:THR:HG22	1:61:A:ALA:H	7	0.17
(1,587)	1:55:A:GLN:HG2	1:54:A:ASN:HB2	5	0.17
(1,556)	1:53:A:ARG:HB2	1:52:A:VAL:H	5	0.17
(1,537)	1:52:A:VAL:HG12	1:48:A:SER:HA	4	0.17
(1,537)	1:52:A:VAL:HG11	1:48:A:SER:HA	8	0.17
(1,536)	1:52:A:VAL:HB	1:53:A:ARG:HG3	7	0.17
(1,445)	1:48:A:SER:HB2	1:46:A:VAL:HG12	4	0.17
(1,445)	1:48:A:SER:HB2	1:46:A:VAL:HG11	9	0.17
(1,260)	1:38:A:ILE:HG22	1:40:A:LEU:HA	10	0.17
(1,237)	1:39:A:PHE:H	1:38:A:ILE:HD13	5	0.17
(1,235)	1:38:A:ILE:HD11	1:38:A:ILE:HD13	1	0.17
(1,235)	1:38:A:ILE:HD12	1:38:A:ILE:HD11	2	0.17
(1,235)	1:38:A:ILE:HD12	1:38:A:ILE:HD11	3	0.17
(1,235)	1:38:A:ILE:HD11	1:38:A:ILE:HD13	4	0.17
(1,235)	1:38:A:ILE:HD12	1:38:A:ILE:HD11	5	0.17
(1,235)	1:38:A:ILE:HD12	1:38:A:ILE:HD13	6	0.17
(1,235)	1:38:A:ILE:HD12	1:38:A:ILE:HD11	7	0.17
(1,235)	1:38:A:ILE:HD12	1:38:A:ILE:HD11	8	0.17
(1,235)	1:38:A:ILE:HD11	1:38:A:ILE:HD13	9	0.17
(1,235)	1:38:A:ILE:HD12	1:38:A:ILE:HD13	10	0.17
(1,225)	1:28:A:THR:HA	1:38:A:ILE:HD12	10	0.17
(1,158)	1:35:A:SER:HA	1:157:A:ILE:HD13	2	0.17
(1,9008)	1:142:A:ASN:HD21	1:127:A:THR:HG21	2	0.16
(1,8903)	1:136:A:GLY:H	1:131:A:LEU:HD12	4	0.16
(1,8885)	1:134:A:LYS:H	1:132:A:HIS:HB2	6	0.16
(1,8885)	1:134:A:LYS:H	1:132:A:HIS:HB2	7	0.16
(1,8559)	1:102:A:PHE:H	1:101:A:SER:HB2	8	0.16
(1,8499)	1:95:A:TYR:H	1:94:A:PHE:HB3	5	0.16
(1,8328)	1:78:A:THR:H	1:76:A:LEU:HB3	2	0.16
(1,8250)	1:72:A:ASN:HD22	1:66:A:ILE:HG23	8	0.16
(1,8247)	1:72:A:ASN:HD21	1:76:A:LEU:HG	4	0.16
(1,8247)	1:72:A:ASN:HD21	1:76:A:LEU:HG	7	0.16
(1,8104)	1:61:A:ALA:H	1:59:A:HIS:HA	7	0.16
(1,7974)	1:53:A:ARG:H	1:46:A:VAL:HG11	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7922)	1:48:A:SER:H	1:47:A:GLU:HB3	3	0.16
(1,7707)	1:29:A:TRP:HE1	1:40:A:LEU:HD13	7	0.16
(1,7588)	1:131:A:LEU:HG	1:138:A:TRP:HD1	2	0.16
(1,7588)	1:131:A:LEU:HG	1:138:A:TRP:HD1	3	0.16
(1,7588)	1:131:A:LEU:HG	1:138:A:TRP:HD1	5	0.16
(1,7533)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	1	0.16
(1,7533)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	2	0.16
(1,7533)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	5	0.16
(1,7533)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	8	0.16
(1,7533)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	9	0.16
(1,7517)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	6	0.16
(1,7456)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	1	0.16
(1,7456)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	3	0.16
(1,7456)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	8	0.16
(1,7456)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	9	0.16
(1,7456)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	10	0.16
(1,7275)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	4	0.16
(1,7275)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	5	0.16
(1,7275)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	6	0.16
(1,7275)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	8	0.16
(1,7275)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	9	0.16
(1,7219)	1:159:A:TYR:H	1:158:A:PRO:HA	10	0.16
(1,7213)	1:157:A:ILE:HG23	1:158:A:PRO:HD3	1	0.16
(1,7213)	1:157:A:ILE:HG23	1:158:A:PRO:HD3	10	0.16
(1,7110)	1:153:A:CYS:HB3	1:152:A:LEU:HD13	3	0.16
(1,7107)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	1	0.16
(1,7107)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	2	0.16
(1,7107)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	7	0.16
(1,7107)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	10	0.16
(1,7079)	1:152:A:LEU:HD21	1:75:A:ILE:H	10	0.16
(1,7026)	1:148:A:VAL:HG11	1:149:A:GLU:HG3	5	0.16
(1,7026)	1:148:A:VAL:HG13	1:149:A:GLU:HG3	6	0.16
(1,7026)	1:148:A:VAL:HG13	1:149:A:GLU:HG3	8	0.16
(1,7013)	1:149:A:GLU:HA	1:43:A:ALA:HB2	7	0.16
(1,6981)	1:145:A:VAL:HG13	1:145:A:VAL:HG22	6	0.16
(1,6981)	1:145:A:VAL:HG13	1:145:A:VAL:HG22	9	0.16
(1,6972)	1:145:A:VAL:H	1:145:A:VAL:HG11	2	0.16
(1,6972)	1:145:A:VAL:H	1:145:A:VAL:HG13	4	0.16
(1,6804)	1:135:A:THR:HG22	1:134:A:LYS:HA	9	0.16
(1,6789)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	7	0.16
(1,6789)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	8	0.16
(1,6789)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6789)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	10	0.16
(1,6756)	1:133:A:ILE:HG12	1:80:A:LYS:H	3	0.16
(1,6756)	1:133:A:ILE:HG12	1:80:A:LYS:H	9	0.16
(1,6719)	1:131:A:LEU:HD22	1:136:A:GLY:HA2	5	0.16
(1,6713)	1:131:A:LEU:HD23	1:131:A:LEU:HA	2	0.16
(1,6698)	1:131:A:LEU:HD21	1:73:A:ALA:HA	7	0.16
(1,6651)	1:128:A:CYS:HA	1:129:A:ALA:HB3	10	0.16
(1,6522)	1:116:A:THR:HG23	1:139:A:LYS:HA	5	0.16
(1,6506)	1:116:A:THR:HA	1:117:A:ASP:HB2	1	0.16
(1,6450)	1:114:A:LYS:HA	1:112:A:PHE:HD2	3	0.16
(1,6425)	1:112:A:PHE:HB2	1:66:A:ILE:HB	10	0.16
(1,6413)	1:111:A:THR:HG21	1:104:A:TRP:HD1	3	0.16
(1,6306)	1:101:A:SER:HB2	1:102:A:PHE:HA	9	0.16
(1,6283)	1:100:A:ALA:HA	1:103:A:LYS:HE2	4	0.16
(1,6283)	1:100:A:ALA:HA	1:103:A:LYS:HE2	10	0.16
(1,6266)	1:97:A:THR:HG23	1:96:A:ASP:HA	2	0.16
(1,6266)	1:97:A:THR:HG21	1:96:A:ASP:HA	6	0.16
(1,6176)	1:91:A:LEU:HD21	1:91:A:LEU:HD23	2	0.16
(1,6176)	1:91:A:LEU:HD21	1:91:A:LEU:HD23	6	0.16
(1,6176)	1:91:A:LEU:HD22	1:91:A:LEU:HD23	7	0.16
(1,6176)	1:91:A:LEU:HD21	1:91:A:LEU:HD23	10	0.16
(1,6174)	1:91:A:LEU:HA	1:91:A:LEU:HD21	9	0.16
(1,6152)	1:91:A:LEU:HD12	1:91:A:LEU:HD13	1	0.16
(1,6152)	1:91:A:LEU:HD11	1:91:A:LEU:HD13	3	0.16
(1,6152)	1:91:A:LEU:HD12	1:91:A:LEU:HD11	4	0.16
(1,6152)	1:91:A:LEU:HD12	1:91:A:LEU:HD13	5	0.16
(1,6152)	1:91:A:LEU:HD12	1:91:A:LEU:HD13	6	0.16
(1,6152)	1:91:A:LEU:HD11	1:91:A:LEU:HD13	7	0.16
(1,6152)	1:91:A:LEU:HD11	1:91:A:LEU:HD13	8	0.16
(1,6152)	1:91:A:LEU:HD11	1:91:A:LEU:HD13	9	0.16
(1,6152)	1:91:A:LEU:HD12	1:91:A:LEU:HD13	10	0.16
(1,6132)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	5	0.16
(1,6132)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	8	0.16
(1,6080)	1:90:A:LEU:HB3	1:148:A:VAL:HB	2	0.16
(1,6080)	1:90:A:LEU:HB3	1:148:A:VAL:HB	7	0.16
(1,6080)	1:90:A:LEU:HB3	1:148:A:VAL:HB	9	0.16
(1,6015)	1:86:A:PRO:HG2	1:85:A:GLY:H	1	0.16
(1,6015)	1:86:A:PRO:HG2	1:85:A:GLY:H	10	0.16
(1,5978)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	7	0.16
(1,5856)	1:79:A:LEU:HD12	1:79:A:LEU:HD22	7	0.16
(1,5856)	1:79:A:LEU:HD11	1:79:A:LEU:HD22	10	0.16
(1,5804)	1:77:A:ASP:HA	1:76:A:LEU:HD21	2	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5804)	1:77:A:ASP:HA	1:76:A:LEU:HD23	4	0.16
(1,5801)	1:77:A:ASP:HA	1:80:A:LYS:HB2	4	0.16
(1,5689)	1:74:A:PHE:H	1:73:A:ALA:HB3	9	0.16
(1,5613)	1:69:A:GLU:HB3	1:73:A:ALA:HB3	4	0.16
(1,5571)	1:66:A:ILE:HG22	1:71:A:GLU:HG3	9	0.16
(1,5565)	1:66:A:ILE:HG21	1:113:A:ASP:HA	4	0.16
(1,5549)	1:66:A:ILE:HD13	1:92:A:GLY:H	9	0.16
(1,5527)	1:66:A:ILE:HA	1:154:A:LYS:HD2	5	0.16
(1,5504)	1:64:A:ILE:HG22	1:64:A:ILE:HG23	1	0.16
(1,5504)	1:64:A:ILE:HG21	1:64:A:ILE:HG23	2	0.16
(1,5504)	1:64:A:ILE:HG22	1:64:A:ILE:HG21	3	0.16
(1,5504)	1:64:A:ILE:HG21	1:64:A:ILE:HG23	4	0.16
(1,5504)	1:64:A:ILE:HG21	1:64:A:ILE:HG23	5	0.16
(1,5504)	1:64:A:ILE:HG22	1:64:A:ILE:HG23	6	0.16
(1,5504)	1:64:A:ILE:HG22	1:64:A:ILE:HG23	7	0.16
(1,5504)	1:64:A:ILE:HG22	1:64:A:ILE:HG21	8	0.16
(1,5504)	1:64:A:ILE:HG22	1:64:A:ILE:HG21	9	0.16
(1,5504)	1:64:A:ILE:HG22	1:64:A:ILE:HG21	10	0.16
(1,5487)	1:64:A:ILE:HD12	1:91:A:LEU:HD22	8	0.16
(1,5486)	1:64:A:ILE:HD11	1:64:A:ILE:HD13	9	0.16
(1,5486)	1:64:A:ILE:HD11	1:64:A:ILE:HD13	10	0.16
(1,5446)	1:63:A:MET:HE2	1:92:A:GLY:HA3	4	0.16
(1,5446)	1:63:A:MET:HE2	1:92:A:GLY:HA3	5	0.16
(1,5408)	1:38:A:ILE:HG22	1:61:A:ALA:HB1	1	0.16
(1,5408)	1:38:A:ILE:HG23	1:61:A:ALA:HB2	2	0.16
(1,5314)	1:52:A:VAL:HG11	1:53:A:ARG:HG3	3	0.16
(1,5304)	1:52:A:VAL:HG12	1:48:A:SER:HA	3	0.16
(1,5304)	1:52:A:VAL:HG12	1:48:A:SER:HA	7	0.16
(1,5172)	1:46:A:VAL:HG11	1:52:A:VAL:HA	10	0.16
(1,5050)	1:40:A:LEU:HB2	1:40:A:LEU:HD12	8	0.16
(1,5050)	1:40:A:LEU:HB2	1:40:A:LEU:HD11	9	0.16
(1,5004)	1:39:A:PHE:H	1:38:A:ILE:HD13	3	0.16
(1,4854)	1:82:A:GLN:HE22	1:30:A:ILE:HD13	1	0.16
(1,4767)	1:155:A:THR:H	1:154:A:LYS:HE2	6	0.16
(1,4749)	1:96:A:ASP:H	1:103:A:LYS:HA	5	0.16
(1,4748)	1:96:A:ASP:H	1:95:A:TYR:HB3	4	0.16
(1,4748)	1:96:A:ASP:H	1:95:A:TYR:HB3	10	0.16
(1,4744)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	6	0.16
(1,4709)	1:31:A:GLN:H	1:31:A:GLN:HE21	3	0.16
(1,4668)	1:131:A:LEU:HD21	1:91:A:LEU:HA	9	0.16
(1,4668)	1:131:A:LEU:HD21	1:91:A:LEU:HA	10	0.16
(1,4600)	1:49:A:ILE:HB	1:90:A:LEU:HD12	2	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4588)	1:155:A:THR:H	1:154:A:LYS:HE2	6	0.16
(1,4570)	1:96:A:ASP:H	1:103:A:LYS:HA	5	0.16
(1,4569)	1:96:A:ASP:H	1:95:A:TYR:HB3	4	0.16
(1,4569)	1:96:A:ASP:H	1:95:A:TYR:HB3	10	0.16
(1,4565)	1:83:A:TRP:HE1	1:83:A:TRP:HZ3	6	0.16
(1,4530)	1:31:A:GLN:H	1:31:A:GLN:HE21	3	0.16
(1,4489)	1:131:A:LEU:HD21	1:91:A:LEU:HA	9	0.16
(1,4489)	1:131:A:LEU:HD21	1:91:A:LEU:HA	10	0.16
(1,4421)	1:49:A:ILE:HB	1:90:A:LEU:HD12	2	0.16
(1,4241)	1:142:A:ASN:HD21	1:127:A:THR:HG21	2	0.16
(1,4136)	1:136:A:GLY:H	1:131:A:LEU:HD12	4	0.16
(1,4118)	1:134:A:LYS:H	1:132:A:HIS:HB2	6	0.16
(1,4118)	1:134:A:LYS:H	1:132:A:HIS:HB2	7	0.16
(1,3792)	1:102:A:PHE:H	1:101:A:SER:HB2	8	0.16
(1,3732)	1:95:A:TYR:H	1:94:A:PHE:HB3	5	0.16
(1,3561)	1:78:A:THR:H	1:76:A:LEU:HB3	2	0.16
(1,3483)	1:72:A:ASN:HD22	1:66:A:ILE:HG23	8	0.16
(1,3480)	1:72:A:ASN:HD21	1:76:A:LEU:HG	4	0.16
(1,3480)	1:72:A:ASN:HD21	1:76:A:LEU:HG	7	0.16
(1,3337)	1:61:A:ALA:H	1:59:A:HIS:HA	7	0.16
(1,3207)	1:53:A:ARG:H	1:46:A:VAL:HG11	4	0.16
(1,3155)	1:48:A:SER:H	1:47:A:GLU:HB3	3	0.16
(1,2940)	1:29:A:TRP:HE1	1:40:A:LEU:HD13	7	0.16
(1,2821)	1:131:A:LEU:HG	1:138:A:TRP:HD1	2	0.16
(1,2821)	1:131:A:LEU:HG	1:138:A:TRP:HD1	3	0.16
(1,2821)	1:131:A:LEU:HG	1:138:A:TRP:HD1	5	0.16
(1,2766)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	1	0.16
(1,2766)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	2	0.16
(1,2766)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	5	0.16
(1,2766)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	8	0.16
(1,2766)	1:115:A:TRP:HB3	1:115:A:TRP:HD1	9	0.16
(1,2750)	1:105:A:PHE:HE1	1:94:A:PHE:HB2	6	0.16
(1,2689)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	1	0.16
(1,2689)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	3	0.16
(1,2689)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	8	0.16
(1,2689)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	9	0.16
(1,2689)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	10	0.16
(1,2508)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	4	0.16
(1,2508)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	5	0.16
(1,2508)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	6	0.16
(1,2508)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	8	0.16
(1,2508)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2452)	1:159:A:TYR:H	1:158:A:PRO:HA	10	0.16
(1,2446)	1:157:A:ILE:HG23	1:158:A:PRO:HD3	1	0.16
(1,2446)	1:157:A:ILE:HG23	1:158:A:PRO:HD3	10	0.16
(1,2343)	1:153:A:CYS:HB3	1:152:A:LEU:HD13	3	0.16
(1,2340)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	1	0.16
(1,2340)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	2	0.16
(1,2340)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	7	0.16
(1,2340)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	10	0.16
(1,2312)	1:152:A:LEU:HD21	1:75:A:ILE:H	10	0.16
(1,2259)	1:148:A:VAL:HG11	1:149:A:GLU:HG3	5	0.16
(1,2259)	1:148:A:VAL:HG13	1:149:A:GLU:HG3	6	0.16
(1,2259)	1:148:A:VAL:HG13	1:149:A:GLU:HG3	8	0.16
(1,2246)	1:149:A:GLU:HA	1:43:A:ALA:HB2	7	0.16
(1,2214)	1:145:A:VAL:HG13	1:145:A:VAL:HG22	6	0.16
(1,2214)	1:145:A:VAL:HG13	1:145:A:VAL:HG22	9	0.16
(1,2205)	1:145:A:VAL:H	1:145:A:VAL:HG11	2	0.16
(1,2205)	1:145:A:VAL:H	1:145:A:VAL:HG13	4	0.16
(1,2037)	1:135:A:THR:HG22	1:134:A:LYS:HA	9	0.16
(1,2022)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	7	0.16
(1,2022)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	8	0.16
(1,2022)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	9	0.16
(1,2022)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	10	0.16
(1,1989)	1:133:A:ILE:HG12	1:80:A:LYS:H	3	0.16
(1,1989)	1:133:A:ILE:HG12	1:80:A:LYS:H	9	0.16
(1,1952)	1:131:A:LEU:HD22	1:136:A:GLY:HA2	5	0.16
(1,1946)	1:131:A:LEU:HD23	1:131:A:LEU:HA	2	0.16
(1,1931)	1:131:A:LEU:HD21	1:73:A:ALA:HA	7	0.16
(1,1884)	1:128:A:CYS:HA	1:129:A:ALA:HB3	10	0.16
(1,1755)	1:116:A:THR:HG23	1:139:A:LYS:HA	5	0.16
(1,1739)	1:116:A:THR:HA	1:117:A:ASP:HB2	1	0.16
(1,1683)	1:114:A:LYS:HA	1:112:A:PHE:HD2	3	0.16
(1,1658)	1:112:A:PHE:HB2	1:66:A:ILE:HB	10	0.16
(1,1646)	1:111:A:THR:HG21	1:104:A:TRP:HD1	3	0.16
(1,1539)	1:101:A:SER:HB2	1:102:A:PHE:HA	9	0.16
(1,1516)	1:100:A:ALA:HA	1:103:A:LYS:HE2	4	0.16
(1,1516)	1:100:A:ALA:HA	1:103:A:LYS:HE2	10	0.16
(1,1499)	1:97:A:THR:HG23	1:96:A:ASP:HA	2	0.16
(1,1499)	1:97:A:THR:HG21	1:96:A:ASP:HA	6	0.16
(1,1409)	1:91:A:LEU:HD21	1:91:A:LEU:HD23	2	0.16
(1,1409)	1:91:A:LEU:HD21	1:91:A:LEU:HD23	6	0.16
(1,1409)	1:91:A:LEU:HD22	1:91:A:LEU:HD23	7	0.16
(1,1409)	1:91:A:LEU:HD21	1:91:A:LEU:HD23	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1407)	1:91:A:LEU:HA	1:91:A:LEU:HD21	9	0.16
(1,1385)	1:91:A:LEU:HD12	1:91:A:LEU:HD13	1	0.16
(1,1385)	1:91:A:LEU:HD11	1:91:A:LEU:HD13	3	0.16
(1,1385)	1:91:A:LEU:HD12	1:91:A:LEU:HD11	4	0.16
(1,1385)	1:91:A:LEU:HD12	1:91:A:LEU:HD13	5	0.16
(1,1385)	1:91:A:LEU:HD12	1:91:A:LEU:HD13	6	0.16
(1,1385)	1:91:A:LEU:HD11	1:91:A:LEU:HD13	7	0.16
(1,1385)	1:91:A:LEU:HD11	1:91:A:LEU:HD13	8	0.16
(1,1385)	1:91:A:LEU:HD11	1:91:A:LEU:HD13	9	0.16
(1,1385)	1:91:A:LEU:HD12	1:91:A:LEU:HD13	10	0.16
(1,1365)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	5	0.16
(1,1365)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	8	0.16
(1,1313)	1:90:A:LEU:HB3	1:148:A:VAL:HB	2	0.16
(1,1313)	1:90:A:LEU:HB3	1:148:A:VAL:HB	7	0.16
(1,1313)	1:90:A:LEU:HB3	1:148:A:VAL:HB	9	0.16
(1,1248)	1:86:A:PRO:HG2	1:85:A:GLY:H	1	0.16
(1,1248)	1:86:A:PRO:HG2	1:85:A:GLY:H	10	0.16
(1,1211)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	7	0.16
(1,1089)	1:79:A:LEU:HD12	1:79:A:LEU:HD22	7	0.16
(1,1089)	1:79:A:LEU:HD11	1:79:A:LEU:HD22	10	0.16
(1,1037)	1:77:A:ASP:HA	1:76:A:LEU:HD21	2	0.16
(1,1037)	1:77:A:ASP:HA	1:76:A:LEU:HD23	4	0.16
(1,1034)	1:77:A:ASP:HA	1:80:A:LYS:HB2	4	0.16
(1,922)	1:74:A:PHE:H	1:73:A:ALA:HB3	9	0.16
(1,846)	1:69:A:GLU:HB3	1:73:A:ALA:HB3	4	0.16
(1,804)	1:66:A:ILE:HG22	1:71:A:GLU:HG3	9	0.16
(1,798)	1:66:A:ILE:HG21	1:113:A:ASP:HA	4	0.16
(1,782)	1:66:A:ILE:HD13	1:92:A:GLY:H	9	0.16
(1,760)	1:66:A:ILE:HA	1:154:A:LYS:HD2	5	0.16
(1,737)	1:64:A:ILE:HG22	1:64:A:ILE:HG23	1	0.16
(1,737)	1:64:A:ILE:HG21	1:64:A:ILE:HG23	2	0.16
(1,737)	1:64:A:ILE:HG22	1:64:A:ILE:HG21	3	0.16
(1,737)	1:64:A:ILE:HG21	1:64:A:ILE:HG23	4	0.16
(1,737)	1:64:A:ILE:HG21	1:64:A:ILE:HG23	5	0.16
(1,737)	1:64:A:ILE:HG22	1:64:A:ILE:HG23	6	0.16
(1,737)	1:64:A:ILE:HG22	1:64:A:ILE:HG23	7	0.16
(1,737)	1:64:A:ILE:HG22	1:64:A:ILE:HG21	8	0.16
(1,737)	1:64:A:ILE:HG22	1:64:A:ILE:HG21	9	0.16
(1,737)	1:64:A:ILE:HG22	1:64:A:ILE:HG21	10	0.16
(1,720)	1:64:A:ILE:HD12	1:91:A:LEU:HD22	8	0.16
(1,719)	1:64:A:ILE:HD11	1:64:A:ILE:HD13	9	0.16
(1,719)	1:64:A:ILE:HD11	1:64:A:ILE:HD13	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,679)	1:63:A:MET:HE2	1:92:A:GLY:HA3	4	0.16
(1,679)	1:63:A:MET:HE2	1:92:A:GLY:HA3	5	0.16
(1,641)	1:38:A:ILE:HG22	1:61:A:ALA:HB1	1	0.16
(1,641)	1:38:A:ILE:HG23	1:61:A:ALA:HB2	2	0.16
(1,547)	1:52:A:VAL:HG11	1:53:A:ARG:HG3	3	0.16
(1,537)	1:52:A:VAL:HG12	1:48:A:SER:HA	3	0.16
(1,537)	1:52:A:VAL:HG12	1:48:A:SER:HA	7	0.16
(1,405)	1:46:A:VAL:HG11	1:52:A:VAL:HA	10	0.16
(1,283)	1:40:A:LEU:HB2	1:40:A:LEU:HD12	8	0.16
(1,283)	1:40:A:LEU:HB2	1:40:A:LEU:HD11	9	0.16
(1,237)	1:39:A:PHE:H	1:38:A:ILE:HD13	3	0.16
(1,87)	1:82:A:GLN:HE22	1:30:A:ILE:HD13	1	0.16
(1,9089)	1:153:A:CYS:H	1:38:A:ILE:HD13	4	0.15
(1,9012)	1:142:A:ASN:HD22	1:124:A:LEU:HD23	7	0.15
(1,9008)	1:142:A:ASN:HD21	1:127:A:THR:HG22	1	0.15
(1,9008)	1:142:A:ASN:HD21	1:127:A:THR:HG23	5	0.15
(1,8977)	1:140:A:LYS:H	1:139:A:LYS:HG3	2	0.15
(1,8977)	1:140:A:LYS:H	1:139:A:LYS:HG3	9	0.15
(1,8903)	1:136:A:GLY:H	1:131:A:LEU:HD13	2	0.15
(1,8903)	1:136:A:GLY:H	1:131:A:LEU:HD11	7	0.15
(1,8903)	1:136:A:GLY:H	1:131:A:LEU:HD13	8	0.15
(1,8885)	1:134:A:LYS:H	1:132:A:HIS:HB2	1	0.15
(1,8885)	1:134:A:LYS:H	1:132:A:HIS:HB2	8	0.15
(1,8885)	1:134:A:LYS:H	1:132:A:HIS:HB2	10	0.15
(1,8825)	1:130:A:PHE:H	1:139:A:LYS:HG2	6	0.15
(1,8755)	1:118:A:GLN:HE22	1:139:A:LYS:H	8	0.15
(1,8681)	1:112:A:PHE:H	1:112:A:PHE:HD1	3	0.15
(1,8564)	1:103:A:LYS:H	1:93:A:MET:HB2	7	0.15
(1,8559)	1:102:A:PHE:H	1:101:A:SER:HB2	1	0.15
(1,8559)	1:102:A:PHE:H	1:101:A:SER:HB2	3	0.15
(1,8499)	1:95:A:TYR:H	1:94:A:PHE:HB3	3	0.15
(1,8499)	1:95:A:TYR:H	1:94:A:PHE:HB3	7	0.15
(1,8441)	1:90:A:LEU:H	1:90:A:LEU:HB3	6	0.15
(1,8328)	1:78:A:THR:H	1:76:A:LEU:HB3	8	0.15
(1,8247)	1:72:A:ASN:HD21	1:76:A:LEU:HG	3	0.15
(1,8247)	1:72:A:ASN:HD21	1:76:A:LEU:HG	5	0.15
(1,7958)	1:51:A:ASP:H	1:51:A:ASP:HB3	3	0.15
(1,7745)	1:31:A:GLN:HE21	1:31:A:GLN:HB2	10	0.15
(1,7588)	1:131:A:LEU:HG	1:138:A:TRP:HD1	1	0.15
(1,7588)	1:131:A:LEU:HG	1:138:A:TRP:HD1	7	0.15
(1,7588)	1:131:A:LEU:HG	1:138:A:TRP:HD1	10	0.15
(1,7478)	1:104:A:TRP:HE3	1:91:A:LEU:HD13	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7458)	1:102:A:PHE:HD1	1:124:A:LEU:HD23	2	0.15
(1,7456)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	2	0.15
(1,7456)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	5	0.15
(1,7456)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	6	0.15
(1,7456)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	7	0.15
(1,7275)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	1	0.15
(1,7275)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	2	0.15
(1,7275)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	7	0.15
(1,7275)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	10	0.15
(1,7219)	1:159:A:TYR:H	1:158:A:PRO:HA	1	0.15
(1,7162)	1:36:A:CYS:HB2	1:155:A:THR:HG23	8	0.15
(1,7157)	1:61:A:ALA:HB2	1:155:A:THR:HG23	10	0.15
(1,7110)	1:153:A:CYS:HB3	1:152:A:LEU:HD12	1	0.15
(1,7107)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	5	0.15
(1,7026)	1:148:A:VAL:HG12	1:149:A:GLU:HG3	7	0.15
(1,7008)	1:148:A:VAL:HG22	1:146:A:SER:HA	7	0.15
(1,6981)	1:145:A:VAL:HG13	1:145:A:VAL:HG22	2	0.15
(1,6981)	1:145:A:VAL:HG11	1:145:A:VAL:HG23	5	0.15
(1,6972)	1:145:A:VAL:H	1:145:A:VAL:HG12	1	0.15
(1,6972)	1:145:A:VAL:H	1:145:A:VAL:HG11	8	0.15
(1,6779)	1:133:A:ILE:HA	1:133:A:ILE:HG23	1	0.15
(1,6756)	1:133:A:ILE:HG12	1:80:A:LYS:H	4	0.15
(1,6719)	1:131:A:LEU:HD21	1:136:A:GLY:HA2	4	0.15
(1,6719)	1:131:A:LEU:HD22	1:136:A:GLY:HA2	8	0.15
(1,6658)	1:129:A:ALA:HB2	1:130:A:PHE:HD1	7	0.15
(1,6522)	1:116:A:THR:HG23	1:139:A:LYS:HA	6	0.15
(1,6518)	1:115:A:TRP:HB3	1:116:A:THR:HG23	1	0.15
(1,6487)	1:114:A:LYS:HE2	1:137:A:GLU:HG2	1	0.15
(1,6487)	1:114:A:LYS:HE2	1:137:A:GLU:HG2	6	0.15
(1,6473)	1:72:A:ASN:HD21	1:114:A:LYS:HE2	2	0.15
(1,6473)	1:72:A:ASN:HD21	1:114:A:LYS:HE2	4	0.15
(1,6473)	1:72:A:ASN:HD21	1:114:A:LYS:HE2	10	0.15
(1,6425)	1:112:A:PHE:HB2	1:66:A:ILE:HB	2	0.15
(1,6425)	1:112:A:PHE:HB2	1:66:A:ILE:HB	3	0.15
(1,6425)	1:112:A:PHE:HB2	1:66:A:ILE:HB	6	0.15
(1,6348)	1:103:A:LYS:HG2	1:96:A:ASP:HB2	8	0.15
(1,6347)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	3	0.15
(1,6347)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	4	0.15
(1,6347)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	9	0.15
(1,6306)	1:101:A:SER:HB2	1:102:A:PHE:HA	3	0.15
(1,6283)	1:100:A:ALA:HA	1:103:A:LYS:HE2	6	0.15
(1,6176)	1:91:A:LEU:HD22	1:91:A:LEU:HD23	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6176)	1:91:A:LEU:HD21	1:91:A:LEU:HD23	4	0.15
(1,6176)	1:91:A:LEU:HD21	1:91:A:LEU:HD23	8	0.15
(1,6161)	1:91:A:LEU:HD21	1:138:A:TRP:HB2	8	0.15
(1,6152)	1:91:A:LEU:HD11	1:91:A:LEU:HD13	2	0.15
(1,6151)	1:91:A:LEU:HD13	1:91:A:LEU:HB3	7	0.15
(1,6132)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	1	0.15
(1,6132)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	4	0.15
(1,6080)	1:90:A:LEU:HB3	1:148:A:VAL:HB	1	0.15
(1,6080)	1:90:A:LEU:HB3	1:148:A:VAL:HB	10	0.15
(1,6015)	1:86:A:PRO:HG2	1:85:A:GLY:H	4	0.15
(1,6015)	1:86:A:PRO:HG2	1:85:A:GLY:H	5	0.15
(1,5994)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	3	0.15
(1,5978)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	6	0.15
(1,5956)	1:84:A:LYS:HA	1:85:A:GLY:HA2	2	0.15
(1,5857)	1:79:A:LEU:HD13	1:81:A:LYS:H	5	0.15
(1,5856)	1:79:A:LEU:HD11	1:79:A:LEU:HD22	5	0.15
(1,5833)	1:78:A:THR:HG23	1:82:A:GLN:HB3	8	0.15
(1,5815)	1:78:A:THR:H	1:77:A:ASP:HB2	5	0.15
(1,5815)	1:78:A:THR:H	1:77:A:ASP:HB2	7	0.15
(1,5815)	1:78:A:THR:H	1:77:A:ASP:HB2	9	0.15
(1,5801)	1:77:A:ASP:HA	1:80:A:LYS:HB2	1	0.15
(1,5778)	1:76:A:LEU:HD12	1:136:A:GLY:HA3	10	0.15
(1,5776)	1:76:A:LEU:HD12	1:133:A:ILE:HA	1	0.15
(1,5776)	1:76:A:LEU:HD11	1:133:A:ILE:HA	7	0.15
(1,5689)	1:74:A:PHE:H	1:73:A:ALA:HB1	1	0.15
(1,5689)	1:74:A:PHE:H	1:73:A:ALA:HB2	6	0.15
(1,5678)	1:72:A:ASN:HB2	1:113:A:ASP:HA	2	0.15
(1,5571)	1:66:A:ILE:HG22	1:71:A:GLU:HG3	4	0.15
(1,5460)	1:63:A:MET:HG2	1:64:A:ILE:HG21	9	0.15
(1,5446)	1:63:A:MET:HE1	1:92:A:GLY:HA3	8	0.15
(1,5415)	1:61:A:ALA:HB1	1:61:A:ALA:HB3	1	0.15
(1,5415)	1:61:A:ALA:HB1	1:61:A:ALA:HB3	3	0.15
(1,5415)	1:61:A:ALA:HB2	1:61:A:ALA:HB3	4	0.15
(1,5415)	1:61:A:ALA:HB2	1:61:A:ALA:HB3	5	0.15
(1,5415)	1:61:A:ALA:HB2	1:61:A:ALA:HB1	6	0.15
(1,5415)	1:61:A:ALA:HB1	1:61:A:ALA:HB3	7	0.15
(1,5415)	1:61:A:ALA:HB2	1:61:A:ALA:HB1	8	0.15
(1,5415)	1:61:A:ALA:HB2	1:61:A:ALA:HB3	9	0.15
(1,5415)	1:61:A:ALA:HB2	1:61:A:ALA:HB1	10	0.15
(1,5413)	1:61:A:ALA:HB1	1:56:A:CYS:H	2	0.15
(1,5413)	1:61:A:ALA:HB1	1:56:A:CYS:H	10	0.15
(1,5408)	1:38:A:ILE:HG23	1:61:A:ALA:HB1	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5405)	1:61:A:ALA:HA	1:155:A:THR:HG22	4	0.15
(1,5212)	1:48:A:SER:HB2	1:46:A:VAL:HG12	5	0.15
(1,5212)	1:48:A:SER:HB2	1:46:A:VAL:HG12	8	0.15
(1,5050)	1:40:A:LEU:HB2	1:40:A:LEU:HD11	1	0.15
(1,5050)	1:40:A:LEU:HB2	1:40:A:LEU:HD12	3	0.15
(1,5050)	1:40:A:LEU:HB2	1:40:A:LEU:HD12	4	0.15
(1,5050)	1:40:A:LEU:HB2	1:40:A:LEU:HD11	6	0.15
(1,5050)	1:40:A:LEU:HB2	1:40:A:LEU:HD12	7	0.15
(1,5027)	1:38:A:ILE:HG21	1:40:A:LEU:HA	7	0.15
(1,5005)	1:40:A:LEU:H	1:38:A:ILE:HD11	5	0.15
(1,4890)	1:31:A:GLN:HB2	1:157:A:ILE:HD11	5	0.15
(1,4828)	1:28:A:THR:HG22	1:29:A:TRP:HE1	1	0.15
(1,4767)	1:155:A:THR:H	1:154:A:LYS:HE2	1	0.15
(1,4717)	1:36:A:CYS:H	1:156:A:ALA:HB1	7	0.15
(1,4715)	1:32:A:PHE:H	1:154:A:LYS:HG3	7	0.15
(1,4712)	1:31:A:GLN:HE22	1:34:A:ASP:HA	4	0.15
(1,4705)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	4	0.15
(1,4679)	1:151:A:THR:HG23	1:56:A:CYS:HB3	4	0.15
(1,4679)	1:151:A:THR:HG21	1:56:A:CYS:HB3	5	0.15
(1,4648)	1:79:A:LEU:HD22	1:80:A:LYS:H	8	0.15
(1,4648)	1:79:A:LEU:HD21	1:80:A:LYS:H	10	0.15
(1,4588)	1:155:A:THR:H	1:154:A:LYS:HE2	1	0.15
(1,4538)	1:36:A:CYS:H	1:156:A:ALA:HB1	7	0.15
(1,4536)	1:32:A:PHE:H	1:154:A:LYS:HG3	7	0.15
(1,4533)	1:31:A:GLN:HE22	1:34:A:ASP:HA	4	0.15
(1,4526)	1:138:A:TRP:HD1	1:137:A:GLU:HB2	4	0.15
(1,4500)	1:151:A:THR:HG23	1:56:A:CYS:HB3	4	0.15
(1,4500)	1:151:A:THR:HG21	1:56:A:CYS:HB3	5	0.15
(1,4469)	1:79:A:LEU:HD22	1:80:A:LYS:H	8	0.15
(1,4469)	1:79:A:LEU:HD21	1:80:A:LYS:H	10	0.15
(1,4322)	1:153:A:CYS:H	1:38:A:ILE:HD13	4	0.15
(1,4245)	1:142:A:ASN:HD22	1:124:A:LEU:HD23	7	0.15
(1,4241)	1:142:A:ASN:HD21	1:127:A:THR:HG22	1	0.15
(1,4241)	1:142:A:ASN:HD21	1:127:A:THR:HG23	5	0.15
(1,4210)	1:140:A:LYS:H	1:139:A:LYS:HG3	2	0.15
(1,4210)	1:140:A:LYS:H	1:139:A:LYS:HG3	9	0.15
(1,4136)	1:136:A:GLY:H	1:131:A:LEU:HD13	2	0.15
(1,4136)	1:136:A:GLY:H	1:131:A:LEU:HD11	7	0.15
(1,4136)	1:136:A:GLY:H	1:131:A:LEU:HD13	8	0.15
(1,4118)	1:134:A:LYS:H	1:132:A:HIS:HB2	1	0.15
(1,4118)	1:134:A:LYS:H	1:132:A:HIS:HB2	8	0.15
(1,4118)	1:134:A:LYS:H	1:132:A:HIS:HB2	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4058)	1:130:A:PHE:H	1:139:A:LYS:HG2	6	0.15
(1,3988)	1:118:A:GLN:HE22	1:139:A:LYS:H	8	0.15
(1,3914)	1:112:A:PHE:H	1:112:A:PHE:HD1	3	0.15
(1,3797)	1:103:A:LYS:H	1:93:A:MET:HB2	7	0.15
(1,3792)	1:102:A:PHE:H	1:101:A:SER:HB2	1	0.15
(1,3792)	1:102:A:PHE:H	1:101:A:SER:HB2	3	0.15
(1,3732)	1:95:A:TYR:H	1:94:A:PHE:HB3	3	0.15
(1,3732)	1:95:A:TYR:H	1:94:A:PHE:HB3	7	0.15
(1,3674)	1:90:A:LEU:H	1:90:A:LEU:HB3	6	0.15
(1,3561)	1:78:A:THR:H	1:76:A:LEU:HB3	8	0.15
(1,3480)	1:72:A:ASN:HD21	1:76:A:LEU:HG	3	0.15
(1,3480)	1:72:A:ASN:HD21	1:76:A:LEU:HG	5	0.15
(1,3191)	1:51:A:ASP:H	1:51:A:ASP:HB3	3	0.15
(1,2978)	1:31:A:GLN:HE21	1:31:A:GLN:HB2	10	0.15
(1,2821)	1:131:A:LEU:HG	1:138:A:TRP:HD1	1	0.15
(1,2821)	1:131:A:LEU:HG	1:138:A:TRP:HD1	7	0.15
(1,2821)	1:131:A:LEU:HG	1:138:A:TRP:HD1	10	0.15
(1,2711)	1:104:A:TRP:HE3	1:91:A:LEU:HD13	4	0.15
(1,2691)	1:102:A:PHE:HD1	1:124:A:LEU:HD23	2	0.15
(1,2689)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	2	0.15
(1,2689)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	5	0.15
(1,2689)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	6	0.15
(1,2689)	1:102:A:PHE:HB2	1:102:A:PHE:HD1	7	0.15
(1,2508)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	1	0.15
(1,2508)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	2	0.15
(1,2508)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	7	0.15
(1,2508)	1:29:A:TRP:HE3	1:29:A:TRP:HD1	10	0.15
(1,2452)	1:159:A:TYR:H	1:158:A:PRO:HA	1	0.15
(1,2395)	1:36:A:CYS:HB2	1:155:A:THR:HG23	8	0.15
(1,2390)	1:61:A:ALA:HB2	1:155:A:THR:HG23	10	0.15
(1,2343)	1:153:A:CYS:HB3	1:152:A:LEU:HD12	1	0.15
(1,2340)	1:153:A:CYS:HB2	1:56:A:CYS:HB2	5	0.15
(1,2259)	1:148:A:VAL:HG12	1:149:A:GLU:HG3	7	0.15
(1,2241)	1:148:A:VAL:HG22	1:146:A:SER:HA	7	0.15
(1,2214)	1:145:A:VAL:HG13	1:145:A:VAL:HG22	2	0.15
(1,2214)	1:145:A:VAL:HG11	1:145:A:VAL:HG23	5	0.15
(1,2205)	1:145:A:VAL:H	1:145:A:VAL:HG12	1	0.15
(1,2205)	1:145:A:VAL:H	1:145:A:VAL:HG11	8	0.15
(1,2012)	1:133:A:ILE:HA	1:133:A:ILE:HG23	1	0.15
(1,1989)	1:133:A:ILE:HG12	1:80:A:LYS:H	4	0.15
(1,1952)	1:131:A:LEU:HD21	1:136:A:GLY:HA2	4	0.15
(1,1952)	1:131:A:LEU:HD22	1:136:A:GLY:HA2	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1891)	1:129:A:ALA:HB2	1:130:A:PHE:HD1	7	0.15
(1,1755)	1:116:A:THR:HG23	1:139:A:LYS:HA	6	0.15
(1,1751)	1:115:A:TRP:HB3	1:116:A:THR:HG23	1	0.15
(1,1720)	1:114:A:LYS:HE2	1:137:A:GLU:HG2	1	0.15
(1,1720)	1:114:A:LYS:HE2	1:137:A:GLU:HG2	6	0.15
(1,1706)	1:72:A:ASN:HD21	1:114:A:LYS:HE2	2	0.15
(1,1706)	1:72:A:ASN:HD21	1:114:A:LYS:HE2	4	0.15
(1,1706)	1:72:A:ASN:HD21	1:114:A:LYS:HE2	10	0.15
(1,1658)	1:112:A:PHE:HB2	1:66:A:ILE:HB	2	0.15
(1,1658)	1:112:A:PHE:HB2	1:66:A:ILE:HB	3	0.15
(1,1658)	1:112:A:PHE:HB2	1:66:A:ILE:HB	6	0.15
(1,1581)	1:103:A:LYS:HG2	1:96:A:ASP:HB2	8	0.15
(1,1580)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	3	0.15
(1,1580)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	4	0.15
(1,1580)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	9	0.15
(1,1539)	1:101:A:SER:HB2	1:102:A:PHE:HA	3	0.15
(1,1516)	1:100:A:ALA:HA	1:103:A:LYS:HE2	6	0.15
(1,1409)	1:91:A:LEU:HD22	1:91:A:LEU:HD23	3	0.15
(1,1409)	1:91:A:LEU:HD21	1:91:A:LEU:HD23	4	0.15
(1,1409)	1:91:A:LEU:HD21	1:91:A:LEU:HD23	8	0.15
(1,1394)	1:91:A:LEU:HD21	1:138:A:TRP:HB2	8	0.15
(1,1385)	1:91:A:LEU:HD11	1:91:A:LEU:HD13	2	0.15
(1,1384)	1:91:A:LEU:HD13	1:91:A:LEU:HB3	7	0.15
(1,1365)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	1	0.15
(1,1365)	1:91:A:LEU:HB3	1:91:A:LEU:HB2	4	0.15
(1,1313)	1:90:A:LEU:HB3	1:148:A:VAL:HB	1	0.15
(1,1313)	1:90:A:LEU:HB3	1:148:A:VAL:HB	10	0.15
(1,1248)	1:86:A:PRO:HG2	1:85:A:GLY:H	4	0.15
(1,1248)	1:86:A:PRO:HG2	1:85:A:GLY:H	5	0.15
(1,1227)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	3	0.15
(1,1211)	1:85:A:GLY:HA3	1:86:A:PRO:HD2	6	0.15
(1,1189)	1:84:A:LYS:HA	1:85:A:GLY:HA2	2	0.15
(1,1090)	1:79:A:LEU:HD13	1:81:A:LYS:H	5	0.15
(1,1089)	1:79:A:LEU:HD11	1:79:A:LEU:HD22	5	0.15
(1,1066)	1:78:A:THR:HG23	1:82:A:GLN:HB3	8	0.15
(1,1048)	1:78:A:THR:H	1:77:A:ASP:HB2	5	0.15
(1,1048)	1:78:A:THR:H	1:77:A:ASP:HB2	7	0.15
(1,1048)	1:78:A:THR:H	1:77:A:ASP:HB2	9	0.15
(1,1034)	1:77:A:ASP:HA	1:80:A:LYS:HB2	1	0.15
(1,1011)	1:76:A:LEU:HD12	1:136:A:GLY:HA3	10	0.15
(1,1009)	1:76:A:LEU:HD12	1:133:A:ILE:HA	1	0.15
(1,1009)	1:76:A:LEU:HD11	1:133:A:ILE:HA	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,922)	1:74:A:PHE:H	1:73:A:ALA:HB1	1	0.15
(1,922)	1:74:A:PHE:H	1:73:A:ALA:HB2	6	0.15
(1,911)	1:72:A:ASN:HB2	1:113:A:ASP:HA	2	0.15
(1,804)	1:66:A:ILE:HG22	1:71:A:GLU:HG3	4	0.15
(1,693)	1:63:A:MET:HG2	1:64:A:ILE:HG21	9	0.15
(1,679)	1:63:A:MET:HE1	1:92:A:GLY:HA3	8	0.15
(1,648)	1:61:A:ALA:HB1	1:61:A:ALA:HB3	1	0.15
(1,648)	1:61:A:ALA:HB1	1:61:A:ALA:HB3	3	0.15
(1,648)	1:61:A:ALA:HB2	1:61:A:ALA:HB3	4	0.15
(1,648)	1:61:A:ALA:HB2	1:61:A:ALA:HB3	5	0.15
(1,648)	1:61:A:ALA:HB2	1:61:A:ALA:HB1	6	0.15
(1,648)	1:61:A:ALA:HB1	1:61:A:ALA:HB3	7	0.15
(1,648)	1:61:A:ALA:HB2	1:61:A:ALA:HB1	8	0.15
(1,648)	1:61:A:ALA:HB2	1:61:A:ALA:HB3	9	0.15
(1,648)	1:61:A:ALA:HB2	1:61:A:ALA:HB1	10	0.15
(1,646)	1:61:A:ALA:HB1	1:56:A:CYS:H	2	0.15
(1,646)	1:61:A:ALA:HB1	1:56:A:CYS:H	10	0.15
(1,641)	1:38:A:ILE:HG23	1:61:A:ALA:HB1	4	0.15
(1,638)	1:61:A:ALA:HA	1:155:A:THR:HG22	4	0.15
(1,445)	1:48:A:SER:HB2	1:46:A:VAL:HG12	5	0.15
(1,445)	1:48:A:SER:HB2	1:46:A:VAL:HG12	8	0.15
(1,283)	1:40:A:LEU:HB2	1:40:A:LEU:HD11	1	0.15
(1,283)	1:40:A:LEU:HB2	1:40:A:LEU:HD12	3	0.15
(1,283)	1:40:A:LEU:HB2	1:40:A:LEU:HD12	4	0.15
(1,283)	1:40:A:LEU:HB2	1:40:A:LEU:HD11	6	0.15
(1,283)	1:40:A:LEU:HB2	1:40:A:LEU:HD12	7	0.15
(1,260)	1:38:A:ILE:HG21	1:40:A:LEU:HA	7	0.15
(1,238)	1:40:A:LEU:H	1:38:A:ILE:HD11	5	0.15
(1,123)	1:31:A:GLN:HB2	1:157:A:ILE:HD11	5	0.15
(1,61)	1:28:A:THR:HG22	1:29:A:TRP:HE1	1	0.15
(1,9152)	1:157:A:ILE:H	1:156:A:ALA:HB1	4	0.14
(1,9152)	1:157:A:ILE:H	1:156:A:ALA:HB2	6	0.14
(1,9089)	1:153:A:CYS:H	1:38:A:ILE:HD11	5	0.14
(1,8903)	1:136:A:GLY:H	1:131:A:LEU:HD12	9	0.14
(1,8885)	1:134:A:LYS:H	1:132:A:HIS:HB2	4	0.14
(1,8885)	1:134:A:LYS:H	1:132:A:HIS:HB2	5	0.14
(1,8876)	1:133:A:ILE:H	1:87:A:ASP:HB2	4	0.14
(1,8873)	1:133:A:ILE:H	1:133:A:ILE:HG21	1	0.14
(1,8846)	1:131:A:LEU:H	1:130:A:PHE:HB2	3	0.14
(1,8846)	1:131:A:LEU:H	1:130:A:PHE:HB2	5	0.14
(1,8825)	1:130:A:PHE:H	1:139:A:LYS:HG2	2	0.14
(1,8781)	1:124:A:LEU:H	1:95:A:TYR:HD1	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8559)	1:102:A:PHE:H	1:101:A:SER:HB2	5	0.14
(1,8559)	1:102:A:PHE:H	1:101:A:SER:HB2	10	0.14
(1,8556)	1:101:A:SER:H	1:103:A:LYS:HD3	8	0.14
(1,8499)	1:95:A:TYR:H	1:94:A:PHE:HB3	9	0.14
(1,8495)	1:94:A:PHE:H	1:103:A:LYS:HG2	4	0.14
(1,8328)	1:78:A:THR:H	1:76:A:LEU:HB3	4	0.14
(1,8264)	1:72:A:ASN:HD21	1:131:A:LEU:HD12	10	0.14
(1,8250)	1:72:A:ASN:HD22	1:66:A:ILE:HG21	4	0.14
(1,8247)	1:72:A:ASN:HD21	1:76:A:LEU:HG	8	0.14
(1,8222)	1:71:A:GLU:H	1:66:A:ILE:HD11	2	0.14
(1,8180)	1:68:A:ASN:H	1:66:A:ILE:HD11	1	0.14
(1,8127)	1:62:A:ASP:H	1:155:A:THR:HG23	1	0.14
(1,8047)	1:55:A:GLN:HE21	1:151:A:THR:HG21	4	0.14
(1,7974)	1:53:A:ARG:H	1:46:A:VAL:HG11	5	0.14
(1,7958)	1:51:A:ASP:H	1:51:A:ASP:HB3	2	0.14
(1,7958)	1:51:A:ASP:H	1:51:A:ASP:HB3	6	0.14
(1,7958)	1:51:A:ASP:H	1:51:A:ASP:HB3	8	0.14
(1,7958)	1:51:A:ASP:H	1:51:A:ASP:HB3	9	0.14
(1,7958)	1:51:A:ASP:H	1:51:A:ASP:HB3	10	0.14
(1,7927)	1:49:A:ILE:H	1:144:A:GLU:HG2	6	0.14
(1,7745)	1:31:A:GLN:HE21	1:31:A:GLN:HB2	2	0.14
(1,7588)	1:131:A:LEU:HG	1:138:A:TRP:HD1	6	0.14
(1,7453)	1:124:A:LEU:HD22	1:95:A:TYR:HE1	2	0.14
(1,7405)	1:38:A:ILE:HD13	1:83:A:TRP:HZ2	1	0.14
(1,7315)	1:32:A:PHE:HZ	1:74:A:PHE:HA	1	0.14
(1,7291)	1:29:A:TRP:HZ2	1:153:A:CYS:HB2	7	0.14
(1,7213)	1:157:A:ILE:HG22	1:158:A:PRO:HD3	7	0.14
(1,7172)	1:156:A:ALA:HB1	1:35:A:SER:HB2	6	0.14
(1,7170)	1:156:A:ALA:HA	1:157:A:ILE:HG21	3	0.14
(1,7110)	1:153:A:CYS:HB3	1:152:A:LEU:HD11	9	0.14
(1,7013)	1:149:A:GLU:HA	1:43:A:ALA:HB3	4	0.14
(1,7013)	1:149:A:GLU:HA	1:43:A:ALA:HB2	5	0.14
(1,7013)	1:149:A:GLU:HA	1:43:A:ALA:HB1	6	0.14
(1,7009)	1:148:A:VAL:HG22	1:147:A:SER:HB2	6	0.14
(1,6981)	1:145:A:VAL:HG11	1:145:A:VAL:HG22	1	0.14
(1,6981)	1:145:A:VAL:HG12	1:145:A:VAL:HG22	4	0.14
(1,6981)	1:145:A:VAL:HG12	1:145:A:VAL:HG22	7	0.14
(1,6981)	1:145:A:VAL:HG12	1:145:A:VAL:HG23	10	0.14
(1,6974)	1:145:A:VAL:HG23	1:143:A:CYS:H	8	0.14
(1,6972)	1:145:A:VAL:H	1:145:A:VAL:HG11	9	0.14
(1,6972)	1:145:A:VAL:H	1:145:A:VAL:HG13	10	0.14
(1,6804)	1:135:A:THR:HG21	1:134:A:LYS:HA	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6789)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	6	0.14
(1,6779)	1:133:A:ILE:HA	1:133:A:ILE:HG21	3	0.14
(1,6779)	1:133:A:ILE:HA	1:133:A:ILE:HG21	8	0.14
(1,6779)	1:133:A:ILE:HA	1:133:A:ILE:HG22	9	0.14
(1,6706)	1:131:A:LEU:HD21	1:72:A:ASN:HD21	3	0.14
(1,6658)	1:129:A:ALA:HB2	1:130:A:PHE:HD1	2	0.14
(1,6644)	1:129:A:ALA:HB2	1:91:A:LEU:HA	9	0.14
(1,6567)	1:124:A:LEU:HD11	1:95:A:TYR:HD1	1	0.14
(1,6521)	1:117:A:ASP:H	1:116:A:THR:HG22	1	0.14
(1,6521)	1:117:A:ASP:H	1:116:A:THR:HG21	9	0.14
(1,6518)	1:115:A:TRP:HB3	1:116:A:THR:HG23	8	0.14
(1,6450)	1:114:A:LYS:HA	1:112:A:PHE:HD2	7	0.14
(1,6450)	1:114:A:LYS:HA	1:112:A:PHE:HD2	10	0.14
(1,6414)	1:111:A:THR:HG22	1:104:A:TRP:HE1	7	0.14
(1,6413)	1:111:A:THR:HG22	1:104:A:TRP:HD1	7	0.14
(1,6347)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	1	0.14
(1,6176)	1:91:A:LEU:HD22	1:91:A:LEU:HD21	5	0.14
(1,6176)	1:91:A:LEU:HD22	1:91:A:LEU:HD23	9	0.14
(1,6175)	1:91:A:LEU:HB3	1:91:A:LEU:HD22	5	0.14
(1,6174)	1:91:A:LEU:HA	1:91:A:LEU:HD21	3	0.14
(1,6080)	1:90:A:LEU:HB3	1:148:A:VAL:HB	4	0.14
(1,6015)	1:86:A:PRO:HG2	1:85:A:GLY:H	2	0.14
(1,6015)	1:86:A:PRO:HG2	1:85:A:GLY:H	3	0.14
(1,5994)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	4	0.14
(1,5994)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	5	0.14
(1,5994)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	8	0.14
(1,5994)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	10	0.14
(1,5956)	1:84:A:LYS:HA	1:85:A:GLY:HA2	4	0.14
(1,5956)	1:84:A:LYS:HA	1:85:A:GLY:HA2	7	0.14
(1,5956)	1:84:A:LYS:HA	1:85:A:GLY:HA2	8	0.14
(1,5956)	1:84:A:LYS:HA	1:85:A:GLY:HA2	9	0.14
(1,5929)	1:81:A:LYS:HG3	1:82:A:GLN:H	3	0.14
(1,5929)	1:81:A:LYS:HG3	1:82:A:GLN:H	5	0.14
(1,5878)	1:79:A:LEU:HG	1:83:A:TRP:HB2	1	0.14
(1,5878)	1:79:A:LEU:HG	1:83:A:TRP:HB2	3	0.14
(1,5826)	1:78:A:THR:HG23	1:82:A:GLN:HA	6	0.14
(1,5815)	1:78:A:THR:H	1:77:A:ASP:HB2	3	0.14
(1,5801)	1:77:A:ASP:HA	1:80:A:LYS:HB2	8	0.14
(1,5776)	1:76:A:LEU:HD12	1:133:A:ILE:HA	10	0.14
(1,5716)	1:75:A:ILE:HA	1:152:A:LEU:HD23	4	0.14
(1,5572)	1:66:A:ILE:HG21	1:71:A:GLU:HB2	1	0.14
(1,5460)	1:63:A:MET:HG2	1:64:A:ILE:HG21	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5460)	1:63:A:MET:HG2	1:64:A:ILE:HG23	4	0.14
(1,5415)	1:61:A:ALA:HB2	1:61:A:ALA:HB1	2	0.14
(1,5408)	1:38:A:ILE:HG21	1:61:A:ALA:HB3	8	0.14
(1,5386)	1:57:A:THR:HG22	1:61:A:ALA:H	5	0.14
(1,5304)	1:52:A:VAL:HG13	1:48:A:SER:HA	5	0.14
(1,5304)	1:52:A:VAL:HG13	1:48:A:SER:HA	9	0.14
(1,5246)	1:49:A:ILE:HG12	1:90:A:LEU:HD12	7	0.14
(1,5206)	1:48:A:SER:HA	1:46:A:VAL:HG12	10	0.14
(1,5172)	1:46:A:VAL:HG11	1:52:A:VAL:HA	4	0.14
(1,5148)	1:55:A:GLN:HE22	1:44:A:ILE:HG22	8	0.14
(1,5071)	1:40:A:LEU:HD23	1:39:A:PHE:HD1	7	0.14
(1,5050)	1:40:A:LEU:HB2	1:40:A:LEU:HD13	2	0.14
(1,5050)	1:40:A:LEU:HB2	1:40:A:LEU:HD13	5	0.14
(1,5050)	1:40:A:LEU:HB2	1:40:A:LEU:HD11	10	0.14
(1,5039)	1:39:A:PHE:HB2	1:40:A:LEU:HA	1	0.14
(1,5039)	1:39:A:PHE:HB2	1:40:A:LEU:HA	2	0.14
(1,5039)	1:39:A:PHE:HB2	1:40:A:LEU:HA	9	0.14
(1,5039)	1:39:A:PHE:HB2	1:40:A:LEU:HA	10	0.14
(1,5027)	1:38:A:ILE:HG22	1:40:A:LEU:HA	2	0.14
(1,5027)	1:38:A:ILE:HG23	1:40:A:LEU:HA	8	0.14
(1,5008)	1:38:A:ILE:HD11	1:153:A:CYS:HB2	2	0.14
(1,5005)	1:40:A:LEU:H	1:38:A:ILE:HD11	10	0.14
(1,4978)	1:37:A:TYR:HB2	1:152:A:LEU:HD23	4	0.14
(1,4957)	1:36:A:CYS:HB3	1:156:A:ALA:HA	7	0.14
(1,4867)	1:30:A:ILE:H	1:30:A:ILE:HG23	2	0.14
(1,4854)	1:82:A:GLN:HE22	1:30:A:ILE:HD11	8	0.14
(1,4767)	1:155:A:THR:H	1:154:A:LYS:HE2	5	0.14
(1,4749)	1:96:A:ASP:H	1:103:A:LYS:HA	1	0.14
(1,4715)	1:32:A:PHE:H	1:154:A:LYS:HG3	1	0.14
(1,4712)	1:31:A:GLN:HE22	1:34:A:ASP:HA	2	0.14
(1,4706)	1:138:A:TRP:HD1	1:114:A:LYS:H	10	0.14
(1,4679)	1:151:A:THR:HG22	1:56:A:CYS:HB3	10	0.14
(1,4670)	1:134:A:LYS:HA	1:76:A:LEU:HG	4	0.14
(1,4668)	1:131:A:LEU:HD22	1:91:A:LEU:HA	7	0.14
(1,4648)	1:79:A:LEU:HD23	1:80:A:LYS:H	4	0.14
(1,4630)	1:70:A:GLU:HG3	1:33:A:GLN:HG3	3	0.14
(1,4630)	1:70:A:GLU:HG3	1:33:A:GLN:HG3	7	0.14
(1,4611)	1:55:A:GLN:HB3	1:44:A:ILE:HG21	4	0.14
(1,4611)	1:55:A:GLN:HB3	1:44:A:ILE:HG23	5	0.14
(1,4588)	1:155:A:THR:H	1:154:A:LYS:HE2	5	0.14
(1,4570)	1:96:A:ASP:H	1:103:A:LYS:HA	1	0.14
(1,4536)	1:32:A:PHE:H	1:154:A:LYS:HG3	1	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4533)	1:31:A:GLN:HE22	1:34:A:ASP:HA	2	0.14
(1,4527)	1:138:A:TRP:HD1	1:114:A:LYS:H	10	0.14
(1,4500)	1:151:A:THR:HG22	1:56:A:CYS:HB3	10	0.14
(1,4491)	1:134:A:LYS:HA	1:76:A:LEU:HG	4	0.14
(1,4489)	1:131:A:LEU:HD22	1:91:A:LEU:HA	7	0.14
(1,4469)	1:79:A:LEU:HD23	1:80:A:LYS:H	4	0.14
(1,4451)	1:70:A:GLU:HG3	1:33:A:GLN:HG3	3	0.14
(1,4451)	1:70:A:GLU:HG3	1:33:A:GLN:HG3	7	0.14
(1,4432)	1:55:A:GLN:HB3	1:44:A:ILE:HG21	4	0.14
(1,4432)	1:55:A:GLN:HB3	1:44:A:ILE:HG23	5	0.14
(1,4385)	1:157:A:ILE:H	1:156:A:ALA:HB1	4	0.14
(1,4385)	1:157:A:ILE:H	1:156:A:ALA:HB2	6	0.14
(1,4322)	1:153:A:CYS:H	1:38:A:ILE:HD11	5	0.14
(1,4136)	1:136:A:GLY:H	1:131:A:LEU:HD12	9	0.14
(1,4118)	1:134:A:LYS:H	1:132:A:HIS:HB2	4	0.14
(1,4118)	1:134:A:LYS:H	1:132:A:HIS:HB2	5	0.14
(1,4109)	1:133:A:ILE:H	1:87:A:ASP:HB2	4	0.14
(1,4106)	1:133:A:ILE:H	1:133:A:ILE:HG21	1	0.14
(1,4079)	1:131:A:LEU:H	1:130:A:PHE:HB2	3	0.14
(1,4079)	1:131:A:LEU:H	1:130:A:PHE:HB2	5	0.14
(1,4058)	1:130:A:PHE:H	1:139:A:LYS:HG2	2	0.14
(1,4014)	1:124:A:LEU:H	1:95:A:TYR:HD1	7	0.14
(1,3792)	1:102:A:PHE:H	1:101:A:SER:HB2	5	0.14
(1,3792)	1:102:A:PHE:H	1:101:A:SER:HB2	10	0.14
(1,3789)	1:101:A:SER:H	1:103:A:LYS:HD3	8	0.14
(1,3732)	1:95:A:TYR:H	1:94:A:PHE:HB3	9	0.14
(1,3728)	1:94:A:PHE:H	1:103:A:LYS:HG2	4	0.14
(1,3561)	1:78:A:THR:H	1:76:A:LEU:HB3	4	0.14
(1,3497)	1:72:A:ASN:HD21	1:131:A:LEU:HD12	10	0.14
(1,3483)	1:72:A:ASN:HD22	1:66:A:ILE:HG21	4	0.14
(1,3480)	1:72:A:ASN:HD21	1:76:A:LEU:HG	8	0.14
(1,3455)	1:71:A:GLU:H	1:66:A:ILE:HD11	2	0.14
(1,3413)	1:68:A:ASN:H	1:66:A:ILE:HD11	1	0.14
(1,3360)	1:62:A:ASP:H	1:155:A:THR:HG23	1	0.14
(1,3280)	1:55:A:GLN:HE21	1:151:A:THR:HG21	4	0.14
(1,3207)	1:53:A:ARG:H	1:46:A:VAL:HG11	5	0.14
(1,3191)	1:51:A:ASP:H	1:51:A:ASP:HB3	2	0.14
(1,3191)	1:51:A:ASP:H	1:51:A:ASP:HB3	6	0.14
(1,3191)	1:51:A:ASP:H	1:51:A:ASP:HB3	8	0.14
(1,3191)	1:51:A:ASP:H	1:51:A:ASP:HB3	9	0.14
(1,3191)	1:51:A:ASP:H	1:51:A:ASP:HB3	10	0.14
(1,3160)	1:49:A:ILE:H	1:144:A:GLU:HG2	6	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2978)	1:31:A:GLN:HE21	1:31:A:GLN:HB2	2	0.14
(1,2821)	1:131:A:LEU:HG	1:138:A:TRP:HD1	6	0.14
(1,2686)	1:124:A:LEU:HD22	1:95:A:TYR:HE1	2	0.14
(1,2638)	1:38:A:ILE:HD13	1:83:A:TRP:HZ2	1	0.14
(1,2548)	1:32:A:PHE:HZ	1:74:A:PHE:HA	1	0.14
(1,2524)	1:29:A:TRP:HZ2	1:153:A:CYS:HB2	7	0.14
(1,2446)	1:157:A:ILE:HG22	1:158:A:PRO:HD3	7	0.14
(1,2405)	1:156:A:ALA:HB1	1:35:A:SER:HB2	6	0.14
(1,2403)	1:156:A:ALA:HA	1:157:A:ILE:HG21	3	0.14
(1,2343)	1:153:A:CYS:HB3	1:152:A:LEU:HD11	9	0.14
(1,2246)	1:149:A:GLU:HA	1:43:A:ALA:HB3	4	0.14
(1,2246)	1:149:A:GLU:HA	1:43:A:ALA:HB2	5	0.14
(1,2246)	1:149:A:GLU:HA	1:43:A:ALA:HB1	6	0.14
(1,2242)	1:148:A:VAL:HG22	1:147:A:SER:HB2	6	0.14
(1,2214)	1:145:A:VAL:HG11	1:145:A:VAL:HG22	1	0.14
(1,2214)	1:145:A:VAL:HG12	1:145:A:VAL:HG22	4	0.14
(1,2214)	1:145:A:VAL:HG12	1:145:A:VAL:HG22	7	0.14
(1,2214)	1:145:A:VAL:HG12	1:145:A:VAL:HG23	10	0.14
(1,2207)	1:145:A:VAL:HG23	1:143:A:CYS:H	8	0.14
(1,2205)	1:145:A:VAL:H	1:145:A:VAL:HG11	9	0.14
(1,2205)	1:145:A:VAL:H	1:145:A:VAL:HG13	10	0.14
(1,2037)	1:135:A:THR:HG21	1:134:A:LYS:HA	3	0.14
(1,2022)	1:134:A:LYS:HE2	1:134:A:LYS:HG3	6	0.14
(1,2012)	1:133:A:ILE:HA	1:133:A:ILE:HG21	3	0.14
(1,2012)	1:133:A:ILE:HA	1:133:A:ILE:HG21	8	0.14
(1,2012)	1:133:A:ILE:HA	1:133:A:ILE:HG22	9	0.14
(1,1939)	1:131:A:LEU:HD21	1:72:A:ASN:HD21	3	0.14
(1,1891)	1:129:A:ALA:HB2	1:130:A:PHE:HD1	2	0.14
(1,1877)	1:129:A:ALA:HB2	1:91:A:LEU:HA	9	0.14
(1,1800)	1:124:A:LEU:HD11	1:95:A:TYR:HD1	1	0.14
(1,1754)	1:117:A:ASP:H	1:116:A:THR:HG22	1	0.14
(1,1754)	1:117:A:ASP:H	1:116:A:THR:HG21	9	0.14
(1,1751)	1:115:A:TRP:HB3	1:116:A:THR:HG23	8	0.14
(1,1683)	1:114:A:LYS:HA	1:112:A:PHE:HD2	7	0.14
(1,1683)	1:114:A:LYS:HA	1:112:A:PHE:HD2	10	0.14
(1,1647)	1:111:A:THR:HG22	1:104:A:TRP:HE1	7	0.14
(1,1646)	1:111:A:THR:HG22	1:104:A:TRP:HD1	7	0.14
(1,1580)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	1	0.14
(1,1409)	1:91:A:LEU:HD22	1:91:A:LEU:HD21	5	0.14
(1,1409)	1:91:A:LEU:HD22	1:91:A:LEU:HD23	9	0.14
(1,1408)	1:91:A:LEU:HB3	1:91:A:LEU:HD22	5	0.14
(1,1407)	1:91:A:LEU:HA	1:91:A:LEU:HD21	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1313)	1:90:A:LEU:HB3	1:148:A:VAL:HB	4	0.14
(1,1248)	1:86:A:PRO:HG2	1:85:A:GLY:H	2	0.14
(1,1248)	1:86:A:PRO:HG2	1:85:A:GLY:H	3	0.14
(1,1227)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	4	0.14
(1,1227)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	5	0.14
(1,1227)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	8	0.14
(1,1227)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	10	0.14
(1,1189)	1:84:A:LYS:HA	1:85:A:GLY:HA2	4	0.14
(1,1189)	1:84:A:LYS:HA	1:85:A:GLY:HA2	7	0.14
(1,1189)	1:84:A:LYS:HA	1:85:A:GLY:HA2	8	0.14
(1,1189)	1:84:A:LYS:HA	1:85:A:GLY:HA2	9	0.14
(1,1162)	1:81:A:LYS:HG3	1:82:A:GLN:H	3	0.14
(1,1162)	1:81:A:LYS:HG3	1:82:A:GLN:H	5	0.14
(1,1111)	1:79:A:LEU:HG	1:83:A:TRP:HB2	1	0.14
(1,1111)	1:79:A:LEU:HG	1:83:A:TRP:HB2	3	0.14
(1,1059)	1:78:A:THR:HG23	1:82:A:GLN:HA	6	0.14
(1,1048)	1:78:A:THR:H	1:77:A:ASP:HB2	3	0.14
(1,1034)	1:77:A:ASP:HA	1:80:A:LYS:HB2	8	0.14
(1,1009)	1:76:A:LEU:HD12	1:133:A:ILE:HA	10	0.14
(1,949)	1:75:A:ILE:HA	1:152:A:LEU:HD23	4	0.14
(1,805)	1:66:A:ILE:HG21	1:71:A:GLU:HB2	1	0.14
(1,693)	1:63:A:MET:HG2	1:64:A:ILE:HG21	3	0.14
(1,693)	1:63:A:MET:HG2	1:64:A:ILE:HG23	4	0.14
(1,648)	1:61:A:ALA:HB2	1:61:A:ALA:HB1	2	0.14
(1,641)	1:38:A:ILE:HG21	1:61:A:ALA:HB3	8	0.14
(1,619)	1:57:A:THR:HG22	1:61:A:ALA:H	5	0.14
(1,537)	1:52:A:VAL:HG13	1:48:A:SER:HA	5	0.14
(1,537)	1:52:A:VAL:HG13	1:48:A:SER:HA	9	0.14
(1,479)	1:49:A:ILE:HG12	1:90:A:LEU:HD12	7	0.14
(1,439)	1:48:A:SER:HA	1:46:A:VAL:HG12	10	0.14
(1,405)	1:46:A:VAL:HG11	1:52:A:VAL:HA	4	0.14
(1,381)	1:55:A:GLN:HE22	1:44:A:ILE:HG22	8	0.14
(1,304)	1:40:A:LEU:HD23	1:39:A:PHE:HD1	7	0.14
(1,283)	1:40:A:LEU:HB2	1:40:A:LEU:HD13	2	0.14
(1,283)	1:40:A:LEU:HB2	1:40:A:LEU:HD13	5	0.14
(1,283)	1:40:A:LEU:HB2	1:40:A:LEU:HD11	10	0.14
(1,272)	1:39:A:PHE:HB2	1:40:A:LEU:HA	1	0.14
(1,272)	1:39:A:PHE:HB2	1:40:A:LEU:HA	2	0.14
(1,272)	1:39:A:PHE:HB2	1:40:A:LEU:HA	9	0.14
(1,272)	1:39:A:PHE:HB2	1:40:A:LEU:HA	10	0.14
(1,260)	1:38:A:ILE:HG22	1:40:A:LEU:HA	2	0.14
(1,260)	1:38:A:ILE:HG23	1:40:A:LEU:HA	8	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,241)	1:38:A:ILE:HD11	1:153:A:CYS:HB2	2	0.14
(1,238)	1:40:A:LEU:H	1:38:A:ILE:HD11	10	0.14
(1,211)	1:37:A:TYR:HB2	1:152:A:LEU:HD23	4	0.14
(1,190)	1:36:A:CYS:HB3	1:156:A:ALA:HA	7	0.14
(1,100)	1:30:A:ILE:H	1:30:A:ILE:HG23	2	0.14
(1,87)	1:82:A:GLN:HE22	1:30:A:ILE:HD11	8	0.14
(1,9101)	1:154:A:LYS:H	1:38:A:ILE:HG23	4	0.13
(1,8903)	1:136:A:GLY:H	1:131:A:LEU:HD12	3	0.13
(1,8885)	1:134:A:LYS:H	1:132:A:HIS:HB2	9	0.13
(1,8876)	1:133:A:ILE:H	1:87:A:ASP:HB2	1	0.13
(1,8846)	1:131:A:LEU:H	1:130:A:PHE:HB2	2	0.13
(1,8846)	1:131:A:LEU:H	1:130:A:PHE:HB2	7	0.13
(1,8825)	1:130:A:PHE:H	1:139:A:LYS:HG2	7	0.13
(1,8825)	1:130:A:PHE:H	1:139:A:LYS:HG2	10	0.13
(1,8681)	1:112:A:PHE:H	1:112:A:PHE:HD1	4	0.13
(1,8681)	1:112:A:PHE:H	1:112:A:PHE:HD1	9	0.13
(1,8664)	1:109:A:ASN:HD22	1:111:A:THR:HA	7	0.13
(1,8664)	1:109:A:ASN:HD22	1:111:A:THR:HA	9	0.13
(1,8564)	1:103:A:LYS:H	1:93:A:MET:HB2	6	0.13
(1,8561)	1:102:A:PHE:H	1:102:A:PHE:HB3	2	0.13
(1,8559)	1:102:A:PHE:H	1:101:A:SER:HB2	4	0.13
(1,8559)	1:102:A:PHE:H	1:101:A:SER:HB2	9	0.13
(1,8556)	1:101:A:SER:H	1:103:A:LYS:HD3	7	0.13
(1,8441)	1:90:A:LEU:H	1:90:A:LEU:HB3	9	0.13
(1,8389)	1:83:A:TRP:HE1	1:30:A:ILE:HD12	7	0.13
(1,8260)	1:72:A:ASN:HD21	1:114:A:LYS:HE3	3	0.13
(1,8247)	1:72:A:ASN:HD21	1:76:A:LEU:HG	6	0.13
(1,8244)	1:72:A:ASN:H	1:72:A:ASN:HD21	5	0.13
(1,8222)	1:71:A:GLU:H	1:66:A:ILE:HD12	3	0.13
(1,8222)	1:71:A:GLU:H	1:66:A:ILE:HD12	9	0.13
(1,8180)	1:68:A:ASN:H	1:66:A:ILE:HD11	10	0.13
(1,8127)	1:62:A:ASP:H	1:155:A:THR:HG22	10	0.13
(1,8047)	1:55:A:GLN:HE21	1:151:A:THR:HG21	6	0.13
(1,8020)	1:55:A:GLN:H	1:55:A:GLN:HG2	9	0.13
(1,7958)	1:51:A:ASP:H	1:51:A:ASP:HB3	1	0.13
(1,7958)	1:51:A:ASP:H	1:51:A:ASP:HB3	4	0.13
(1,7958)	1:51:A:ASP:H	1:51:A:ASP:HB3	5	0.13
(1,7958)	1:51:A:ASP:H	1:51:A:ASP:HB3	7	0.13
(1,7927)	1:49:A:ILE:H	1:144:A:GLU:HG2	10	0.13
(1,7588)	1:131:A:LEU:HG	1:138:A:TRP:HD1	9	0.13
(1,7574)	1:135:A:THR:H	1:132:A:HIS:HD2	3	0.13
(1,7315)	1:32:A:PHE:HZ	1:74:A:PHE:HA	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7291)	1:29:A:TRP:HZ2	1:153:A:CYS:HB2	8	0.13
(1,7219)	1:159:A:TYR:H	1:158:A:PRO:HA	3	0.13
(1,7110)	1:153:A:CYS:HB3	1:152:A:LEU:HD13	7	0.13
(1,7059)	1:78:A:THR:HG23	1:152:A:LEU:HD12	5	0.13
(1,7059)	1:78:A:THR:HG23	1:152:A:LEU:HD11	7	0.13
(1,7026)	1:148:A:VAL:HG12	1:149:A:GLU:HG3	1	0.13
(1,7026)	1:148:A:VAL:HG13	1:149:A:GLU:HG3	3	0.13
(1,6981)	1:145:A:VAL:HG13	1:145:A:VAL:HG21	8	0.13
(1,6972)	1:145:A:VAL:H	1:145:A:VAL:HG13	7	0.13
(1,6950)	1:145:A:VAL:H	1:144:A:GLU:HA	5	0.13
(1,6779)	1:133:A:ILE:HA	1:133:A:ILE:HG21	2	0.13
(1,6779)	1:133:A:ILE:HA	1:133:A:ILE:HG23	10	0.13
(1,6778)	1:80:A:LYS:HE2	1:133:A:ILE:HG23	1	0.13
(1,6771)	1:133:A:ILE:HG13	1:134:A:LYS:H	4	0.13
(1,6719)	1:131:A:LEU:HD21	1:136:A:GLY:HA2	7	0.13
(1,6719)	1:131:A:LEU:HD23	1:136:A:GLY:HA2	9	0.13
(1,6713)	1:131:A:LEU:HD23	1:131:A:LEU:HA	3	0.13
(1,6713)	1:131:A:LEU:HD21	1:131:A:LEU:HA	5	0.13
(1,6706)	1:131:A:LEU:HD21	1:72:A:ASN:HD21	7	0.13
(1,6546)	1:122:A:GLU:H	1:122:A:GLU:HB3	10	0.13
(1,6511)	1:116:A:THR:HA	1:137:A:GLU:HG2	9	0.13
(1,6450)	1:114:A:LYS:HA	1:112:A:PHE:HD2	1	0.13
(1,6414)	1:111:A:THR:HG21	1:104:A:TRP:HE1	3	0.13
(1,6414)	1:111:A:THR:HG23	1:104:A:TRP:HE1	6	0.13
(1,6347)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	8	0.13
(1,6263)	1:96:A:ASP:H	1:97:A:THR:HG21	1	0.13
(1,6263)	1:96:A:ASP:H	1:97:A:THR:HG23	2	0.13
(1,6210)	1:93:A:MET:HB2	1:93:A:MET:HE3	4	0.13
(1,6209)	1:93:A:MET:HB2	1:102:A:PHE:HD1	10	0.13
(1,6208)	1:93:A:MET:HB2	1:91:A:LEU:HD12	8	0.13
(1,6176)	1:91:A:LEU:HD22	1:91:A:LEU:HD23	1	0.13
(1,6166)	1:92:A:GLY:H	1:91:A:LEU:HD23	9	0.13
(1,6161)	1:91:A:LEU:HD23	1:138:A:TRP:HB2	1	0.13
(1,6151)	1:91:A:LEU:HD13	1:91:A:LEU:HB3	2	0.13
(1,6109)	1:90:A:LEU:HD21	1:63:A:MET:HB3	3	0.13
(1,6080)	1:90:A:LEU:HB3	1:148:A:VAL:HB	3	0.13
(1,6080)	1:90:A:LEU:HB3	1:148:A:VAL:HB	5	0.13
(1,6022)	1:86:A:PRO:HG2	1:89:A:ILE:HD13	3	0.13
(1,5994)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	1	0.13
(1,5994)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	9	0.13
(1,5956)	1:84:A:LYS:HA	1:85:A:GLY:HA2	5	0.13
(1,5956)	1:84:A:LYS:HA	1:85:A:GLY:HA2	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5929)	1:81:A:LYS:HG3	1:82:A:GLN:H	7	0.13
(1,5929)	1:81:A:LYS:HG3	1:82:A:GLN:H	9	0.13
(1,5929)	1:81:A:LYS:HG3	1:82:A:GLN:H	10	0.13
(1,5919)	1:81:A:LYS:HD2	1:77:A:ASP:HB2	5	0.13
(1,5919)	1:81:A:LYS:HD2	1:77:A:ASP:HB2	9	0.13
(1,5815)	1:78:A:THR:H	1:77:A:ASP:HB2	4	0.13
(1,5815)	1:78:A:THR:H	1:77:A:ASP:HB2	10	0.13
(1,5795)	1:76:A:LEU:HD23	1:136:A:GLY:HA2	5	0.13
(1,5771)	1:76:A:LEU:HD12	1:89:A:ILE:H	3	0.13
(1,5706)	1:74:A:PHE:HB3	1:73:A:ALA:HB2	2	0.13
(1,5614)	1:69:A:GLU:H	1:69:A:GLU:HB2	4	0.13
(1,5614)	1:69:A:GLU:H	1:69:A:GLU:HB2	5	0.13
(1,5576)	1:66:A:ILE:HG21	1:91:A:LEU:HD22	9	0.13
(1,5572)	1:66:A:ILE:HG21	1:71:A:GLU:HB2	2	0.13
(1,5548)	1:66:A:ILE:HD13	1:76:A:LEU:H	1	0.13
(1,5517)	1:65:A:SER:HA	1:66:A:ILE:HD12	1	0.13
(1,5502)	1:64:A:ILE:HG22	1:64:A:ILE:HA	6	0.13
(1,5421)	1:61:A:ALA:HB2	1:155:A:THR:HA	1	0.13
(1,5408)	1:38:A:ILE:HG23	1:61:A:ALA:HB2	10	0.13
(1,5323)	1:53:A:ARG:HB2	1:52:A:VAL:H	1	0.13
(1,5323)	1:53:A:ARG:HB2	1:52:A:VAL:H	7	0.13
(1,5323)	1:53:A:ARG:HB2	1:52:A:VAL:H	10	0.13
(1,5277)	1:49:A:ILE:HG22	1:50:A:GLU:HB2	1	0.13
(1,5212)	1:48:A:SER:HB2	1:46:A:VAL:HG11	2	0.13
(1,5206)	1:48:A:SER:HA	1:46:A:VAL:HG12	5	0.13
(1,5205)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	3	0.13
(1,5045)	1:40:A:LEU:HB2	1:38:A:ILE:HD12	9	0.13
(1,5039)	1:39:A:PHE:HB2	1:40:A:LEU:HA	3	0.13
(1,5039)	1:39:A:PHE:HB2	1:40:A:LEU:HA	5	0.13
(1,5039)	1:39:A:PHE:HB2	1:40:A:LEU:HA	6	0.13
(1,5039)	1:39:A:PHE:HB2	1:40:A:LEU:HA	7	0.13
(1,5039)	1:39:A:PHE:HB2	1:40:A:LEU:HA	8	0.13
(1,5008)	1:38:A:ILE:HD13	1:153:A:CYS:HB2	9	0.13
(1,5005)	1:40:A:LEU:H	1:38:A:ILE:HD11	2	0.13
(1,4879)	1:30:A:ILE:HG22	1:37:A:TYR:HD1	7	0.13
(1,4854)	1:82:A:GLN:HE22	1:30:A:ILE:HD12	7	0.13
(1,4823)	1:29:A:TRP:H	1:28:A:THR:HG22	1	0.13
(1,4767)	1:155:A:THR:H	1:154:A:LYS:HE2	2	0.13
(1,4767)	1:155:A:THR:H	1:154:A:LYS:HE2	7	0.13
(1,4727)	1:48:A:SER:H	1:45:A:LYS:HG3	10	0.13
(1,4725)	1:43:A:ALA:H	1:149:A:GLU:HB3	4	0.13
(1,4700)	1:95:A:TYR:HD1	1:102:A:PHE:HB3	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4679)	1:151:A:THR:HG22	1:56:A:CYS:HB3	2	0.13
(1,4679)	1:151:A:THR:HG23	1:56:A:CYS:HB3	9	0.13
(1,4675)	1:142:A:ASN:HA	1:90:A:LEU:HD22	3	0.13
(1,4675)	1:142:A:ASN:HA	1:90:A:LEU:HD23	7	0.13
(1,4648)	1:79:A:LEU:HD23	1:80:A:LYS:H	2	0.13
(1,4636)	1:75:A:ILE:HG23	1:64:A:ILE:HG13	8	0.13
(1,4619)	1:64:A:ILE:HD13	1:152:A:LEU:H	8	0.13
(1,4600)	1:49:A:ILE:HB	1:90:A:LEU:HD13	4	0.13
(1,4588)	1:155:A:THR:H	1:154:A:LYS:HE2	2	0.13
(1,4588)	1:155:A:THR:H	1:154:A:LYS:HE2	7	0.13
(1,4548)	1:48:A:SER:H	1:45:A:LYS:HG3	10	0.13
(1,4546)	1:43:A:ALA:H	1:149:A:GLU:HB3	4	0.13
(1,4521)	1:95:A:TYR:HD1	1:102:A:PHE:HB3	1	0.13
(1,4500)	1:151:A:THR:HG22	1:56:A:CYS:HB3	2	0.13
(1,4500)	1:151:A:THR:HG23	1:56:A:CYS:HB3	9	0.13
(1,4496)	1:142:A:ASN:HA	1:90:A:LEU:HD22	3	0.13
(1,4496)	1:142:A:ASN:HA	1:90:A:LEU:HD23	7	0.13
(1,4469)	1:79:A:LEU:HD23	1:80:A:LYS:H	2	0.13
(1,4457)	1:75:A:ILE:HG23	1:64:A:ILE:HG13	8	0.13
(1,4440)	1:64:A:ILE:HD13	1:152:A:LEU:H	8	0.13
(1,4421)	1:49:A:ILE:HB	1:90:A:LEU:HD13	4	0.13
(1,4334)	1:154:A:LYS:H	1:38:A:ILE:HG23	4	0.13
(1,4136)	1:136:A:GLY:H	1:131:A:LEU:HD12	3	0.13
(1,4118)	1:134:A:LYS:H	1:132:A:HIS:HB2	9	0.13
(1,4109)	1:133:A:ILE:H	1:87:A:ASP:HB2	1	0.13
(1,4079)	1:131:A:LEU:H	1:130:A:PHE:HB2	2	0.13
(1,4079)	1:131:A:LEU:H	1:130:A:PHE:HB2	7	0.13
(1,4058)	1:130:A:PHE:H	1:139:A:LYS:HG2	7	0.13
(1,4058)	1:130:A:PHE:H	1:139:A:LYS:HG2	10	0.13
(1,3914)	1:112:A:PHE:H	1:112:A:PHE:HD1	4	0.13
(1,3914)	1:112:A:PHE:H	1:112:A:PHE:HD1	9	0.13
(1,3897)	1:109:A:ASN:HD22	1:111:A:THR:HA	7	0.13
(1,3897)	1:109:A:ASN:HD22	1:111:A:THR:HA	9	0.13
(1,3797)	1:103:A:LYS:H	1:93:A:MET:HB2	6	0.13
(1,3794)	1:102:A:PHE:H	1:102:A:PHE:HB3	2	0.13
(1,3792)	1:102:A:PHE:H	1:101:A:SER:HB2	4	0.13
(1,3792)	1:102:A:PHE:H	1:101:A:SER:HB2	9	0.13
(1,3789)	1:101:A:SER:H	1:103:A:LYS:HD3	7	0.13
(1,3674)	1:90:A:LEU:H	1:90:A:LEU:HB3	9	0.13
(1,3622)	1:83:A:TRP:HE1	1:30:A:ILE:HD12	7	0.13
(1,3493)	1:72:A:ASN:HD21	1:114:A:LYS:HE3	3	0.13
(1,3480)	1:72:A:ASN:HD21	1:76:A:LEU:HG	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3477)	1:72:A:ASN:H	1:72:A:ASN:HD21	5	0.13
(1,3455)	1:71:A:GLU:H	1:66:A:ILE:HD12	3	0.13
(1,3455)	1:71:A:GLU:H	1:66:A:ILE:HD12	9	0.13
(1,3413)	1:68:A:ASN:H	1:66:A:ILE:HD11	10	0.13
(1,3360)	1:62:A:ASP:H	1:155:A:THR:HG22	10	0.13
(1,3280)	1:55:A:GLN:HE21	1:151:A:THR:HG21	6	0.13
(1,3253)	1:55:A:GLN:H	1:55:A:GLN:HG2	9	0.13
(1,3191)	1:51:A:ASP:H	1:51:A:ASP:HB3	1	0.13
(1,3191)	1:51:A:ASP:H	1:51:A:ASP:HB3	4	0.13
(1,3191)	1:51:A:ASP:H	1:51:A:ASP:HB3	5	0.13
(1,3191)	1:51:A:ASP:H	1:51:A:ASP:HB3	7	0.13
(1,3160)	1:49:A:ILE:H	1:144:A:GLU:HG2	10	0.13
(1,2821)	1:131:A:LEU:HG	1:138:A:TRP:HD1	9	0.13
(1,2807)	1:135:A:THR:H	1:132:A:HIS:HD2	3	0.13
(1,2548)	1:32:A:PHE:HZ	1:74:A:PHE:HA	5	0.13
(1,2524)	1:29:A:TRP:HZ2	1:153:A:CYS:HB2	8	0.13
(1,2452)	1:159:A:TYR:H	1:158:A:PRO:HA	3	0.13
(1,2343)	1:153:A:CYS:HB3	1:152:A:LEU:HD13	7	0.13
(1,2292)	1:78:A:THR:HG23	1:152:A:LEU:HD12	5	0.13
(1,2292)	1:78:A:THR:HG23	1:152:A:LEU:HD11	7	0.13
(1,2259)	1:148:A:VAL:HG12	1:149:A:GLU:HG3	1	0.13
(1,2259)	1:148:A:VAL:HG13	1:149:A:GLU:HG3	3	0.13
(1,2214)	1:145:A:VAL:HG13	1:145:A:VAL:HG21	8	0.13
(1,2205)	1:145:A:VAL:H	1:145:A:VAL:HG13	7	0.13
(1,2183)	1:145:A:VAL:H	1:144:A:GLU:HA	5	0.13
(1,2012)	1:133:A:ILE:HA	1:133:A:ILE:HG21	2	0.13
(1,2012)	1:133:A:ILE:HA	1:133:A:ILE:HG23	10	0.13
(1,2011)	1:80:A:LYS:HE2	1:133:A:ILE:HG23	1	0.13
(1,2004)	1:133:A:ILE:HG13	1:134:A:LYS:H	4	0.13
(1,1952)	1:131:A:LEU:HD21	1:136:A:GLY:HA2	7	0.13
(1,1952)	1:131:A:LEU:HD23	1:136:A:GLY:HA2	9	0.13
(1,1946)	1:131:A:LEU:HD23	1:131:A:LEU:HA	3	0.13
(1,1946)	1:131:A:LEU:HD21	1:131:A:LEU:HA	5	0.13
(1,1939)	1:131:A:LEU:HD21	1:72:A:ASN:HD21	7	0.13
(1,1779)	1:122:A:GLU:H	1:122:A:GLU:HB3	10	0.13
(1,1744)	1:116:A:THR:HA	1:137:A:GLU:HG2	9	0.13
(1,1683)	1:114:A:LYS:HA	1:112:A:PHE:HD2	1	0.13
(1,1647)	1:111:A:THR:HG21	1:104:A:TRP:HE1	3	0.13
(1,1647)	1:111:A:THR:HG23	1:104:A:TRP:HE1	6	0.13
(1,1580)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	8	0.13
(1,1496)	1:96:A:ASP:H	1:97:A:THR:HG21	1	0.13
(1,1496)	1:96:A:ASP:H	1:97:A:THR:HG23	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1443)	1:93:A:MET:HB2	1:93:A:MET:HE3	4	0.13
(1,1442)	1:93:A:MET:HB2	1:102:A:PHE:HD1	10	0.13
(1,1441)	1:93:A:MET:HB2	1:91:A:LEU:HD12	8	0.13
(1,1409)	1:91:A:LEU:HD22	1:91:A:LEU:HD23	1	0.13
(1,1399)	1:92:A:GLY:H	1:91:A:LEU:HD23	9	0.13
(1,1394)	1:91:A:LEU:HD23	1:138:A:TRP:HB2	1	0.13
(1,1384)	1:91:A:LEU:HD13	1:91:A:LEU:HB3	2	0.13
(1,1342)	1:90:A:LEU:HD21	1:63:A:MET:HB3	3	0.13
(1,1313)	1:90:A:LEU:HB3	1:148:A:VAL:HB	3	0.13
(1,1313)	1:90:A:LEU:HB3	1:148:A:VAL:HB	5	0.13
(1,1255)	1:86:A:PRO:HG2	1:89:A:ILE:HD13	3	0.13
(1,1227)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	1	0.13
(1,1227)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	9	0.13
(1,1189)	1:84:A:LYS:HA	1:85:A:GLY:HA2	5	0.13
(1,1189)	1:84:A:LYS:HA	1:85:A:GLY:HA2	6	0.13
(1,1162)	1:81:A:LYS:HG3	1:82:A:GLN:H	7	0.13
(1,1162)	1:81:A:LYS:HG3	1:82:A:GLN:H	9	0.13
(1,1162)	1:81:A:LYS:HG3	1:82:A:GLN:H	10	0.13
(1,1152)	1:81:A:LYS:HD2	1:77:A:ASP:HB2	5	0.13
(1,1152)	1:81:A:LYS:HD2	1:77:A:ASP:HB2	9	0.13
(1,1048)	1:78:A:THR:H	1:77:A:ASP:HB2	4	0.13
(1,1048)	1:78:A:THR:H	1:77:A:ASP:HB2	10	0.13
(1,1028)	1:76:A:LEU:HD23	1:136:A:GLY:HA2	5	0.13
(1,1004)	1:76:A:LEU:HD12	1:89:A:ILE:H	3	0.13
(1,939)	1:74:A:PHE:HB3	1:73:A:ALA:HB2	2	0.13
(1,847)	1:69:A:GLU:H	1:69:A:GLU:HB2	4	0.13
(1,847)	1:69:A:GLU:H	1:69:A:GLU:HB2	5	0.13
(1,809)	1:66:A:ILE:HG21	1:91:A:LEU:HD22	9	0.13
(1,805)	1:66:A:ILE:HG21	1:71:A:GLU:HB2	2	0.13
(1,781)	1:66:A:ILE:HD13	1:76:A:LEU:H	1	0.13
(1,750)	1:65:A:SER:HA	1:66:A:ILE:HD12	1	0.13
(1,735)	1:64:A:ILE:HG22	1:64:A:ILE:HA	6	0.13
(1,654)	1:61:A:ALA:HB2	1:155:A:THR:HA	1	0.13
(1,641)	1:38:A:ILE:HG23	1:61:A:ALA:HB2	10	0.13
(1,556)	1:53:A:ARG:HB2	1:52:A:VAL:H	1	0.13
(1,556)	1:53:A:ARG:HB2	1:52:A:VAL:H	7	0.13
(1,556)	1:53:A:ARG:HB2	1:52:A:VAL:H	10	0.13
(1,510)	1:49:A:ILE:HG22	1:50:A:GLU:HB2	1	0.13
(1,445)	1:48:A:SER:HB2	1:46:A:VAL:HG11	2	0.13
(1,439)	1:48:A:SER:HA	1:46:A:VAL:HG12	5	0.13
(1,438)	1:47:A:GLU:HG2	1:47:A:GLU:HB3	3	0.13
(1,278)	1:40:A:LEU:HB2	1:38:A:ILE:HD12	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,272)	1:39:A:PHE:HB2	1:40:A:LEU:HA	3	0.13
(1,272)	1:39:A:PHE:HB2	1:40:A:LEU:HA	5	0.13
(1,272)	1:39:A:PHE:HB2	1:40:A:LEU:HA	6	0.13
(1,272)	1:39:A:PHE:HB2	1:40:A:LEU:HA	7	0.13
(1,272)	1:39:A:PHE:HB2	1:40:A:LEU:HA	8	0.13
(1,241)	1:38:A:ILE:HD13	1:153:A:CYS:HB2	9	0.13
(1,238)	1:40:A:LEU:H	1:38:A:ILE:HD11	2	0.13
(1,112)	1:30:A:ILE:HG22	1:37:A:TYR:HD1	7	0.13
(1,87)	1:82:A:GLN:HE22	1:30:A:ILE:HD12	7	0.13
(1,56)	1:29:A:TRP:H	1:28:A:THR:HG22	1	0.13
(1,9101)	1:154:A:LYS:H	1:38:A:ILE:HG21	8	0.12
(1,9032)	1:143:A:CYS:H	1:144:A:GLU:H	8	0.12
(1,9012)	1:142:A:ASN:HD22	1:124:A:LEU:HD21	3	0.12
(1,8983)	1:140:A:LYS:H	1:124:A:LEU:HD22	9	0.12
(1,8977)	1:140:A:LYS:H	1:139:A:LYS:HG3	7	0.12
(1,8903)	1:136:A:GLY:H	1:131:A:LEU:HD11	10	0.12
(1,8885)	1:134:A:LYS:H	1:132:A:HIS:HB2	2	0.12
(1,8846)	1:131:A:LEU:H	1:130:A:PHE:HB2	1	0.12
(1,8846)	1:131:A:LEU:H	1:130:A:PHE:HB2	4	0.12
(1,8846)	1:131:A:LEU:H	1:130:A:PHE:HB2	8	0.12
(1,8846)	1:131:A:LEU:H	1:130:A:PHE:HB2	9	0.12
(1,8825)	1:130:A:PHE:H	1:139:A:LYS:HG2	1	0.12
(1,8825)	1:130:A:PHE:H	1:139:A:LYS:HG2	9	0.12
(1,8776)	1:123:A:ASP:H	1:122:A:GLU:HG2	6	0.12
(1,8755)	1:118:A:GLN:HE22	1:139:A:LYS:H	4	0.12
(1,8681)	1:112:A:PHE:H	1:112:A:PHE:HD1	6	0.12
(1,8681)	1:112:A:PHE:H	1:112:A:PHE:HD1	8	0.12
(1,8564)	1:103:A:LYS:H	1:93:A:MET:HB2	2	0.12
(1,8564)	1:103:A:LYS:H	1:93:A:MET:HB2	10	0.12
(1,8561)	1:102:A:PHE:H	1:102:A:PHE:HB3	7	0.12
(1,8559)	1:102:A:PHE:H	1:101:A:SER:HB2	6	0.12
(1,8556)	1:101:A:SER:H	1:103:A:LYS:HD3	2	0.12
(1,8556)	1:101:A:SER:H	1:103:A:LYS:HD3	3	0.12
(1,8556)	1:101:A:SER:H	1:103:A:LYS:HD3	9	0.12
(1,8499)	1:95:A:TYR:H	1:94:A:PHE:HB3	1	0.12
(1,8499)	1:95:A:TYR:H	1:94:A:PHE:HB3	6	0.12
(1,8441)	1:90:A:LEU:H	1:90:A:LEU:HB3	1	0.12
(1,8441)	1:90:A:LEU:H	1:90:A:LEU:HB3	2	0.12
(1,8441)	1:90:A:LEU:H	1:90:A:LEU:HB3	3	0.12
(1,8441)	1:90:A:LEU:H	1:90:A:LEU:HB3	5	0.12
(1,8441)	1:90:A:LEU:H	1:90:A:LEU:HB3	10	0.12
(1,8421)	1:88:A:ASP:H	1:87:A:ASP:HB2	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8374)	1:82:A:GLN:HE22	1:30:A:ILE:HG22	2	0.12
(1,8328)	1:78:A:THR:H	1:76:A:LEU:HB3	1	0.12
(1,8328)	1:78:A:THR:H	1:76:A:LEU:HB3	6	0.12
(1,8250)	1:72:A:ASN:HD22	1:66:A:ILE:HG23	2	0.12
(1,8247)	1:72:A:ASN:HD21	1:76:A:LEU:HG	9	0.12
(1,8244)	1:72:A:ASN:H	1:72:A:ASN:HD21	10	0.12
(1,8180)	1:68:A:ASN:H	1:66:A:ILE:HD11	2	0.12
(1,8127)	1:62:A:ASP:H	1:155:A:THR:HG22	3	0.12
(1,8091)	1:60:A:GLY:H	1:57:A:THR:HG21	2	0.12
(1,8020)	1:55:A:GLN:H	1:55:A:GLN:HG2	2	0.12
(1,8020)	1:55:A:GLN:H	1:55:A:GLN:HG2	4	0.12
(1,7974)	1:53:A:ARG:H	1:46:A:VAL:HG12	8	0.12
(1,7974)	1:53:A:ARG:H	1:46:A:VAL:HG11	10	0.12
(1,7927)	1:49:A:ILE:H	1:144:A:GLU:HG2	8	0.12
(1,7656)	1:24:A:CYS:H	1:23:A:ASP:HA	10	0.12
(1,7574)	1:135:A:THR:H	1:132:A:HIS:HD2	2	0.12
(1,7458)	1:102:A:PHE:HD1	1:124:A:LEU:HD23	3	0.12
(1,7446)	1:100:A:ALA:H	1:95:A:TYR:HE1	4	0.12
(1,7291)	1:29:A:TRP:HZ2	1:153:A:CYS:HB2	1	0.12
(1,7227)	1:157:A:ILE:HG12	1:158:A:PRO:HD3	9	0.12
(1,7225)	1:157:A:ILE:HG12	1:158:A:PRO:HD2	5	0.12
(1,7055)	1:152:A:LEU:HB2	1:89:A:ILE:HA	7	0.12
(1,7055)	1:152:A:LEU:HB2	1:89:A:ILE:HA	10	0.12
(1,6981)	1:145:A:VAL:HG11	1:145:A:VAL:HG21	3	0.12
(1,6976)	1:145:A:VAL:HG22	1:143:A:CYS:HB2	5	0.12
(1,6976)	1:145:A:VAL:HG21	1:143:A:CYS:HB2	9	0.12
(1,6974)	1:145:A:VAL:HG23	1:143:A:CYS:H	3	0.12
(1,6972)	1:145:A:VAL:H	1:145:A:VAL:HG12	5	0.12
(1,6950)	1:145:A:VAL:H	1:144:A:GLU:HA	9	0.12
(1,6804)	1:135:A:THR:HG23	1:134:A:LYS:HA	8	0.12
(1,6719)	1:131:A:LEU:HD22	1:136:A:GLY:HA2	6	0.12
(1,6713)	1:131:A:LEU:HD21	1:131:A:LEU:HA	6	0.12
(1,6713)	1:131:A:LEU:HD22	1:131:A:LEU:HA	10	0.12
(1,6706)	1:131:A:LEU:HD23	1:72:A:ASN:HD21	10	0.12
(1,6698)	1:131:A:LEU:HD22	1:73:A:ALA:HA	5	0.12
(1,6695)	1:131:A:LEU:HD11	1:138:A:TRP:HA	6	0.12
(1,6694)	1:131:A:LEU:HD11	1:138:A:TRP:H	6	0.12
(1,6655)	1:129:A:ALA:HB2	1:129:A:ALA:HB3	1	0.12
(1,6655)	1:129:A:ALA:HB2	1:129:A:ALA:HB1	2	0.12
(1,6655)	1:129:A:ALA:HB2	1:129:A:ALA:HB3	4	0.12
(1,6655)	1:129:A:ALA:HB2	1:129:A:ALA:HB1	6	0.12
(1,6655)	1:129:A:ALA:HB2	1:129:A:ALA:HB1	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6655)	1:129:A:ALA:HB1	1:129:A:ALA:HB3	8	0.12
(1,6594)	1:97:A:THR:HG23	1:125:A:VAL:HB	3	0.12
(1,6582)	1:124:A:LEU:H	1:124:A:LEU:HG	10	0.12
(1,6539)	1:118:A:GLN:HE21	1:120:A:ASP:HB2	2	0.12
(1,6522)	1:116:A:THR:HG23	1:139:A:LYS:HA	2	0.12
(1,6475)	1:114:A:LYS:HE3	1:114:A:LYS:HG3	10	0.12
(1,6473)	1:72:A:ASN:HD21	1:114:A:LYS:HE2	8	0.12
(1,6413)	1:111:A:THR:HG22	1:104:A:TRP:HD1	1	0.12
(1,6347)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	6	0.12
(1,6347)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	7	0.12
(1,6300)	1:101:A:SER:HB3	1:103:A:LYS:HG2	5	0.12
(1,6289)	1:100:A:ALA:H	1:100:A:ALA:HB2	4	0.12
(1,6279)	1:99:A:ASP:HA	1:99:A:ASP:HB2	5	0.12
(1,6279)	1:99:A:ASP:HA	1:99:A:ASP:HB2	10	0.12
(1,6254)	1:97:A:THR:HB	1:95:A:TYR:HD2	8	0.12
(1,6210)	1:93:A:MET:HB2	1:93:A:MET:HE2	1	0.12
(1,6210)	1:93:A:MET:HB2	1:93:A:MET:HE1	8	0.12
(1,6209)	1:93:A:MET:HB2	1:102:A:PHE:HD1	2	0.12
(1,6181)	1:91:A:LEU:HD22	1:131:A:LEU:HB2	7	0.12
(1,5994)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	2	0.12
(1,5970)	1:85:A:GLY:HA3	1:86:A:PRO:HG3	2	0.12
(1,5956)	1:84:A:LYS:HA	1:85:A:GLY:HA2	1	0.12
(1,5956)	1:84:A:LYS:HA	1:85:A:GLY:HA2	3	0.12
(1,5956)	1:84:A:LYS:HA	1:85:A:GLY:HA2	10	0.12
(1,5923)	1:81:A:LYS:HE2	1:81:A:LYS:HG3	3	0.12
(1,5923)	1:81:A:LYS:HE2	1:81:A:LYS:HG3	5	0.12
(1,5923)	1:81:A:LYS:HE2	1:81:A:LYS:HG3	7	0.12
(1,5923)	1:81:A:LYS:HE2	1:81:A:LYS:HG3	9	0.12
(1,5922)	1:81:A:LYS:HA	1:81:A:LYS:HE2	4	0.12
(1,5919)	1:81:A:LYS:HD2	1:77:A:ASP:HB2	3	0.12
(1,5919)	1:81:A:LYS:HD2	1:77:A:ASP:HB2	7	0.12
(1,5919)	1:81:A:LYS:HD2	1:77:A:ASP:HB2	10	0.12
(1,5899)	1:80:A:LYS:HE2	1:81:A:LYS:H	6	0.12
(1,5818)	1:78:A:THR:HA	1:81:A:LYS:HB2	1	0.12
(1,5818)	1:78:A:THR:HA	1:81:A:LYS:HB2	4	0.12
(1,5811)	1:77:A:ASP:HB2	1:81:A:LYS:HB3	2	0.12
(1,5811)	1:77:A:ASP:HB2	1:81:A:LYS:HB3	4	0.12
(1,5795)	1:76:A:LEU:HD22	1:136:A:GLY:HA2	4	0.12
(1,5771)	1:76:A:LEU:HD13	1:89:A:ILE:H	7	0.12
(1,5694)	1:73:A:ALA:HA	1:73:A:ALA:HB1	4	0.12
(1,5678)	1:72:A:ASN:HB2	1:113:A:ASP:HA	7	0.12
(1,5614)	1:69:A:GLU:H	1:69:A:GLU:HB2	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5614)	1:69:A:GLU:H	1:69:A:GLU:HB2	8	0.12
(1,5614)	1:69:A:GLU:H	1:69:A:GLU:HB2	10	0.12
(1,5502)	1:64:A:ILE:HG22	1:64:A:ILE:HA	1	0.12
(1,5502)	1:64:A:ILE:HG22	1:64:A:ILE:HA	7	0.12
(1,5474)	1:64:A:ILE:HD11	1:152:A:LEU:HA	7	0.12
(1,5423)	1:62:A:ASP:HA	1:61:A:ALA:HB2	3	0.12
(1,5423)	1:62:A:ASP:HA	1:61:A:ALA:HB1	9	0.12
(1,5421)	1:61:A:ALA:HB2	1:155:A:THR:HA	4	0.12
(1,5413)	1:61:A:ALA:HB2	1:56:A:CYS:H	8	0.12
(1,5405)	1:61:A:ALA:HA	1:155:A:THR:HG22	8	0.12
(1,5323)	1:53:A:ARG:HB2	1:52:A:VAL:H	8	0.12
(1,5314)	1:52:A:VAL:HG12	1:53:A:ARG:HG3	1	0.12
(1,5314)	1:52:A:VAL:HG12	1:53:A:ARG:HG3	5	0.12
(1,5304)	1:52:A:VAL:HG11	1:48:A:SER:HA	2	0.12
(1,5212)	1:48:A:SER:HB2	1:46:A:VAL:HG11	6	0.12
(1,5212)	1:48:A:SER:HB2	1:46:A:VAL:HG12	7	0.12
(1,5175)	1:46:A:VAL:HG12	1:47:A:GLU:HA	5	0.12
(1,5175)	1:46:A:VAL:HG11	1:47:A:GLU:HA	6	0.12
(1,5157)	1:45:A:LYS:HD2	1:45:A:LYS:HE2	3	0.12
(1,5045)	1:40:A:LEU:HB2	1:38:A:ILE:HD13	3	0.12
(1,5039)	1:39:A:PHE:HB2	1:40:A:LEU:HA	4	0.12
(1,5027)	1:38:A:ILE:HG23	1:40:A:LEU:HA	6	0.12
(1,4941)	1:36:A:CYS:HA	1:154:A:LYS:HG3	7	0.12
(1,4867)	1:30:A:ILE:H	1:30:A:ILE:HG23	1	0.12
(1,4867)	1:30:A:ILE:H	1:30:A:ILE:HG21	10	0.12
(1,4767)	1:155:A:THR:H	1:154:A:LYS:HE2	4	0.12
(1,4736)	1:73:A:ALA:H	1:76:A:LEU:HD22	5	0.12
(1,4736)	1:73:A:ALA:H	1:76:A:LEU:HD21	6	0.12
(1,4727)	1:48:A:SER:H	1:45:A:LYS:HG3	8	0.12
(1,4706)	1:138:A:TRP:HD1	1:114:A:LYS:H	9	0.12
(1,4675)	1:142:A:ASN:HA	1:90:A:LEU:HD22	6	0.12
(1,4651)	1:86:A:PRO:HD3	1:133:A:ILE:HD11	3	0.12
(1,4649)	1:83:A:TRP:HB2	1:84:A:LYS:HG3	9	0.12
(1,4588)	1:155:A:THR:H	1:154:A:LYS:HE2	4	0.12
(1,4557)	1:73:A:ALA:H	1:76:A:LEU:HD22	5	0.12
(1,4557)	1:73:A:ALA:H	1:76:A:LEU:HD21	6	0.12
(1,4548)	1:48:A:SER:H	1:45:A:LYS:HG3	8	0.12
(1,4527)	1:138:A:TRP:HD1	1:114:A:LYS:H	9	0.12
(1,4496)	1:142:A:ASN:HA	1:90:A:LEU:HD22	6	0.12
(1,4472)	1:86:A:PRO:HD3	1:133:A:ILE:HD11	3	0.12
(1,4470)	1:83:A:TRP:HB2	1:84:A:LYS:HG3	9	0.12
(1,4334)	1:154:A:LYS:H	1:38:A:ILE:HG21	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4265)	1:143:A:CYS:H	1:144:A:GLU:H	8	0.12
(1,4245)	1:142:A:ASN:HD22	1:124:A:LEU:HD21	3	0.12
(1,4216)	1:140:A:LYS:H	1:124:A:LEU:HD22	9	0.12
(1,4210)	1:140:A:LYS:H	1:139:A:LYS:HG3	7	0.12
(1,4136)	1:136:A:GLY:H	1:131:A:LEU:HD11	10	0.12
(1,4118)	1:134:A:LYS:H	1:132:A:HIS:HB2	2	0.12
(1,4079)	1:131:A:LEU:H	1:130:A:PHE:HB2	1	0.12
(1,4079)	1:131:A:LEU:H	1:130:A:PHE:HB2	4	0.12
(1,4079)	1:131:A:LEU:H	1:130:A:PHE:HB2	8	0.12
(1,4079)	1:131:A:LEU:H	1:130:A:PHE:HB2	9	0.12
(1,4058)	1:130:A:PHE:H	1:139:A:LYS:HG2	1	0.12
(1,4058)	1:130:A:PHE:H	1:139:A:LYS:HG2	9	0.12
(1,4009)	1:123:A:ASP:H	1:122:A:GLU:HG2	6	0.12
(1,3988)	1:118:A:GLN:HE22	1:139:A:LYS:H	4	0.12
(1,3914)	1:112:A:PHE:H	1:112:A:PHE:HD1	6	0.12
(1,3914)	1:112:A:PHE:H	1:112:A:PHE:HD1	8	0.12
(1,3797)	1:103:A:LYS:H	1:93:A:MET:HB2	2	0.12
(1,3797)	1:103:A:LYS:H	1:93:A:MET:HB2	10	0.12
(1,3794)	1:102:A:PHE:H	1:102:A:PHE:HB3	7	0.12
(1,3792)	1:102:A:PHE:H	1:101:A:SER:HB2	6	0.12
(1,3789)	1:101:A:SER:H	1:103:A:LYS:HD3	2	0.12
(1,3789)	1:101:A:SER:H	1:103:A:LYS:HD3	3	0.12
(1,3789)	1:101:A:SER:H	1:103:A:LYS:HD3	9	0.12
(1,3732)	1:95:A:TYR:H	1:94:A:PHE:HB3	1	0.12
(1,3732)	1:95:A:TYR:H	1:94:A:PHE:HB3	6	0.12
(1,3674)	1:90:A:LEU:H	1:90:A:LEU:HB3	1	0.12
(1,3674)	1:90:A:LEU:H	1:90:A:LEU:HB3	2	0.12
(1,3674)	1:90:A:LEU:H	1:90:A:LEU:HB3	3	0.12
(1,3674)	1:90:A:LEU:H	1:90:A:LEU:HB3	5	0.12
(1,3674)	1:90:A:LEU:H	1:90:A:LEU:HB3	10	0.12
(1,3654)	1:88:A:ASP:H	1:87:A:ASP:HB2	4	0.12
(1,3607)	1:82:A:GLN:HE22	1:30:A:ILE:HG22	2	0.12
(1,3561)	1:78:A:THR:H	1:76:A:LEU:HB3	1	0.12
(1,3561)	1:78:A:THR:H	1:76:A:LEU:HB3	6	0.12
(1,3483)	1:72:A:ASN:HD22	1:66:A:ILE:HG23	2	0.12
(1,3480)	1:72:A:ASN:HD21	1:76:A:LEU:HG	9	0.12
(1,3477)	1:72:A:ASN:H	1:72:A:ASN:HD21	10	0.12
(1,3413)	1:68:A:ASN:H	1:66:A:ILE:HD11	2	0.12
(1,3360)	1:62:A:ASP:H	1:155:A:THR:HG22	3	0.12
(1,3324)	1:60:A:GLY:H	1:57:A:THR:HG21	2	0.12
(1,3253)	1:55:A:GLN:H	1:55:A:GLN:HG2	2	0.12
(1,3253)	1:55:A:GLN:H	1:55:A:GLN:HG2	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3207)	1:53:A:ARG:H	1:46:A:VAL:HG12	8	0.12
(1,3207)	1:53:A:ARG:H	1:46:A:VAL:HG11	10	0.12
(1,3160)	1:49:A:ILE:H	1:144:A:GLU:HG2	8	0.12
(1,2889)	1:24:A:CYS:H	1:23:A:ASP:HA	10	0.12
(1,2807)	1:135:A:THR:H	1:132:A:HIS:HD2	2	0.12
(1,2691)	1:102:A:PHE:HD1	1:124:A:LEU:HD23	3	0.12
(1,2679)	1:100:A:ALA:H	1:95:A:TYR:HE1	4	0.12
(1,2524)	1:29:A:TRP:HZ2	1:153:A:CYS:HB2	1	0.12
(1,2460)	1:157:A:ILE:HG12	1:158:A:PRO:HD3	9	0.12
(1,2458)	1:157:A:ILE:HG12	1:158:A:PRO:HD2	5	0.12
(1,2288)	1:152:A:LEU:HB2	1:89:A:ILE:HA	7	0.12
(1,2288)	1:152:A:LEU:HB2	1:89:A:ILE:HA	10	0.12
(1,2214)	1:145:A:VAL:HG11	1:145:A:VAL:HG21	3	0.12
(1,2209)	1:145:A:VAL:HG22	1:143:A:CYS:HB2	5	0.12
(1,2209)	1:145:A:VAL:HG21	1:143:A:CYS:HB2	9	0.12
(1,2207)	1:145:A:VAL:HG23	1:143:A:CYS:H	3	0.12
(1,2205)	1:145:A:VAL:H	1:145:A:VAL:HG12	5	0.12
(1,2183)	1:145:A:VAL:H	1:144:A:GLU:HA	9	0.12
(1,2037)	1:135:A:THR:HG23	1:134:A:LYS:HA	8	0.12
(1,1952)	1:131:A:LEU:HD22	1:136:A:GLY:HA2	6	0.12
(1,1946)	1:131:A:LEU:HD21	1:131:A:LEU:HA	6	0.12
(1,1946)	1:131:A:LEU:HD22	1:131:A:LEU:HA	10	0.12
(1,1939)	1:131:A:LEU:HD23	1:72:A:ASN:HD21	10	0.12
(1,1931)	1:131:A:LEU:HD22	1:73:A:ALA:HA	5	0.12
(1,1928)	1:131:A:LEU:HD11	1:138:A:TRP:HA	6	0.12
(1,1927)	1:131:A:LEU:HD11	1:138:A:TRP:H	6	0.12
(1,1888)	1:129:A:ALA:HB2	1:129:A:ALA:HB3	1	0.12
(1,1888)	1:129:A:ALA:HB2	1:129:A:ALA:HB1	2	0.12
(1,1888)	1:129:A:ALA:HB2	1:129:A:ALA:HB3	4	0.12
(1,1888)	1:129:A:ALA:HB2	1:129:A:ALA:HB1	6	0.12
(1,1888)	1:129:A:ALA:HB2	1:129:A:ALA:HB1	7	0.12
(1,1888)	1:129:A:ALA:HB1	1:129:A:ALA:HB3	8	0.12
(1,1827)	1:97:A:THR:HG23	1:125:A:VAL:HB	3	0.12
(1,1815)	1:124:A:LEU:H	1:124:A:LEU:HG	10	0.12
(1,1772)	1:118:A:GLN:HE21	1:120:A:ASP:HB2	2	0.12
(1,1755)	1:116:A:THR:HG23	1:139:A:LYS:HA	2	0.12
(1,1708)	1:114:A:LYS:HE3	1:114:A:LYS:HG3	10	0.12
(1,1706)	1:72:A:ASN:HD21	1:114:A:LYS:HE2	8	0.12
(1,1646)	1:111:A:THR:HG22	1:104:A:TRP:HD1	1	0.12
(1,1580)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	6	0.12
(1,1580)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	7	0.12
(1,1533)	1:101:A:SER:HB3	1:103:A:LYS:HG2	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1522)	1:100:A:ALA:H	1:100:A:ALA:HB2	4	0.12
(1,1512)	1:99:A:ASP:HA	1:99:A:ASP:HB2	5	0.12
(1,1512)	1:99:A:ASP:HA	1:99:A:ASP:HB2	10	0.12
(1,1487)	1:97:A:THR:HB	1:95:A:TYR:HD2	8	0.12
(1,1443)	1:93:A:MET:HB2	1:93:A:MET:HE2	1	0.12
(1,1443)	1:93:A:MET:HB2	1:93:A:MET:HE1	8	0.12
(1,1442)	1:93:A:MET:HB2	1:102:A:PHE:HD1	2	0.12
(1,1414)	1:91:A:LEU:HD22	1:131:A:LEU:HB2	7	0.12
(1,1227)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	2	0.12
(1,1203)	1:85:A:GLY:HA3	1:86:A:PRO:HG3	2	0.12
(1,1189)	1:84:A:LYS:HA	1:85:A:GLY:HA2	1	0.12
(1,1189)	1:84:A:LYS:HA	1:85:A:GLY:HA2	3	0.12
(1,1189)	1:84:A:LYS:HA	1:85:A:GLY:HA2	10	0.12
(1,1156)	1:81:A:LYS:HE2	1:81:A:LYS:HG3	3	0.12
(1,1156)	1:81:A:LYS:HE2	1:81:A:LYS:HG3	5	0.12
(1,1156)	1:81:A:LYS:HE2	1:81:A:LYS:HG3	7	0.12
(1,1156)	1:81:A:LYS:HE2	1:81:A:LYS:HG3	9	0.12
(1,1155)	1:81:A:LYS:HA	1:81:A:LYS:HE2	4	0.12
(1,1152)	1:81:A:LYS:HD2	1:77:A:ASP:HB2	3	0.12
(1,1152)	1:81:A:LYS:HD2	1:77:A:ASP:HB2	7	0.12
(1,1152)	1:81:A:LYS:HD2	1:77:A:ASP:HB2	10	0.12
(1,1132)	1:80:A:LYS:HE2	1:81:A:LYS:H	6	0.12
(1,1051)	1:78:A:THR:HA	1:81:A:LYS:HB2	1	0.12
(1,1051)	1:78:A:THR:HA	1:81:A:LYS:HB2	4	0.12
(1,1044)	1:77:A:ASP:HB2	1:81:A:LYS:HB3	2	0.12
(1,1044)	1:77:A:ASP:HB2	1:81:A:LYS:HB3	4	0.12
(1,1028)	1:76:A:LEU:HD22	1:136:A:GLY:HA2	4	0.12
(1,1004)	1:76:A:LEU:HD13	1:89:A:ILE:H	7	0.12
(1,927)	1:73:A:ALA:HA	1:73:A:ALA:HB1	4	0.12
(1,911)	1:72:A:ASN:HB2	1:113:A:ASP:HA	7	0.12
(1,847)	1:69:A:GLU:H	1:69:A:GLU:HB2	1	0.12
(1,847)	1:69:A:GLU:H	1:69:A:GLU:HB2	8	0.12
(1,847)	1:69:A:GLU:H	1:69:A:GLU:HB2	10	0.12
(1,735)	1:64:A:ILE:HG22	1:64:A:ILE:HA	1	0.12
(1,735)	1:64:A:ILE:HG22	1:64:A:ILE:HA	7	0.12
(1,707)	1:64:A:ILE:HD11	1:152:A:LEU:HA	7	0.12
(1,656)	1:62:A:ASP:HA	1:61:A:ALA:HB2	3	0.12
(1,656)	1:62:A:ASP:HA	1:61:A:ALA:HB1	9	0.12
(1,654)	1:61:A:ALA:HB2	1:155:A:THR:HA	4	0.12
(1,646)	1:61:A:ALA:HB2	1:56:A:CYS:H	8	0.12
(1,638)	1:61:A:ALA:HA	1:155:A:THR:HG22	8	0.12
(1,556)	1:53:A:ARG:HB2	1:52:A:VAL:H	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,547)	1:52:A:VAL:HG12	1:53:A:ARG:HG3	1	0.12
(1,547)	1:52:A:VAL:HG12	1:53:A:ARG:HG3	5	0.12
(1,537)	1:52:A:VAL:HG11	1:48:A:SER:HA	2	0.12
(1,445)	1:48:A:SER:HB2	1:46:A:VAL:HG11	6	0.12
(1,445)	1:48:A:SER:HB2	1:46:A:VAL:HG12	7	0.12
(1,408)	1:46:A:VAL:HG12	1:47:A:GLU:HA	5	0.12
(1,408)	1:46:A:VAL:HG11	1:47:A:GLU:HA	6	0.12
(1,390)	1:45:A:LYS:HD2	1:45:A:LYS:HE2	3	0.12
(1,278)	1:40:A:LEU:HB2	1:38:A:ILE:HD13	3	0.12
(1,272)	1:39:A:PHE:HB2	1:40:A:LEU:HA	4	0.12
(1,260)	1:38:A:ILE:HG23	1:40:A:LEU:HA	6	0.12
(1,174)	1:36:A:CYS:HA	1:154:A:LYS:HG3	7	0.12
(1,100)	1:30:A:ILE:H	1:30:A:ILE:HG23	1	0.12
(1,100)	1:30:A:ILE:H	1:30:A:ILE:HG21	10	0.12
(1,9150)	1:157:A:ILE:H	1:35:A:SER:HB3	7	0.11
(1,9137)	1:156:A:ALA:H	1:154:A:LYS:HE2	5	0.11
(1,9101)	1:154:A:LYS:H	1:38:A:ILE:HG22	5	0.11
(1,9089)	1:153:A:CYS:H	1:38:A:ILE:HD11	2	0.11
(1,9085)	1:153:A:CYS:H	1:151:A:THR:HG22	2	0.11
(1,9008)	1:142:A:ASN:HD21	1:127:A:THR:HG22	9	0.11
(1,8983)	1:140:A:LYS:H	1:124:A:LEU:HD23	3	0.11
(1,8846)	1:131:A:LEU:H	1:130:A:PHE:HB2	10	0.11
(1,8825)	1:130:A:PHE:H	1:139:A:LYS:HG2	5	0.11
(1,8681)	1:112:A:PHE:H	1:112:A:PHE:HD1	2	0.11
(1,8541)	1:100:A:ALA:H	1:98:A:ASP:HB2	1	0.11
(1,8541)	1:100:A:ALA:H	1:98:A:ASP:HB2	7	0.11
(1,8541)	1:100:A:ALA:H	1:98:A:ASP:HB2	10	0.11
(1,8499)	1:95:A:TYR:H	1:94:A:PHE:HB3	8	0.11
(1,8499)	1:95:A:TYR:H	1:94:A:PHE:HB3	10	0.11
(1,8482)	1:93:A:MET:H	1:94:A:PHE:HB2	9	0.11
(1,8441)	1:90:A:LEU:H	1:90:A:LEU:HB3	4	0.11
(1,8441)	1:90:A:LEU:H	1:90:A:LEU:HB3	7	0.11
(1,8421)	1:88:A:ASP:H	1:87:A:ASP:HB2	1	0.11
(1,8260)	1:72:A:ASN:HD21	1:114:A:LYS:HE3	5	0.11
(1,8260)	1:72:A:ASN:HD21	1:114:A:LYS:HE3	7	0.11
(1,8249)	1:72:A:ASN:HD21	1:66:A:ILE:HG21	3	0.11
(1,8247)	1:72:A:ASN:HD21	1:76:A:LEU:HG	1	0.11
(1,8244)	1:72:A:ASN:H	1:72:A:ASN:HD21	1	0.11
(1,8244)	1:72:A:ASN:H	1:72:A:ASN:HD21	2	0.11
(1,8244)	1:72:A:ASN:H	1:72:A:ASN:HD21	3	0.11
(1,8244)	1:72:A:ASN:H	1:72:A:ASN:HD21	4	0.11
(1,8244)	1:72:A:ASN:H	1:72:A:ASN:HD21	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8244)	1:72:A:ASN:H	1:72:A:ASN:HD21	7	0.11
(1,8215)	1:70:A:GLU:H	1:70:A:GLU:HB3	1	0.11
(1,8203)	1:68:A:ASN:HD22	1:70:A:GLU:HB3	2	0.11
(1,8203)	1:68:A:ASN:HD22	1:70:A:GLU:HB3	7	0.11
(1,8104)	1:61:A:ALA:H	1:59:A:HIS:HA	3	0.11
(1,8104)	1:61:A:ALA:H	1:59:A:HIS:HA	4	0.11
(1,8020)	1:55:A:GLN:H	1:55:A:GLN:HG2	3	0.11
(1,8020)	1:55:A:GLN:H	1:55:A:GLN:HG2	5	0.11
(1,7989)	1:53:A:ARG:HE	1:105:A:PHE:HB2	7	0.11
(1,7974)	1:53:A:ARG:H	1:46:A:VAL:HG11	7	0.11
(1,7927)	1:49:A:ILE:H	1:144:A:GLU:HG2	1	0.11
(1,7927)	1:49:A:ILE:H	1:144:A:GLU:HG2	2	0.11
(1,7898)	1:45:A:LYS:H	1:45:A:LYS:HE2	10	0.11
(1,7870)	1:41:A:GLN:HE21	1:40:A:LEU:H	7	0.11
(1,7656)	1:24:A:CYS:H	1:23:A:ASP:HA	2	0.11
(1,7656)	1:24:A:CYS:H	1:23:A:ASP:HA	8	0.11
(1,7639)	1:138:A:TRP:HZ3	1:115:A:TRP:HD1	3	0.11
(1,7592)	1:131:A:LEU:HD21	1:138:A:TRP:HD1	6	0.11
(1,7574)	1:135:A:THR:H	1:132:A:HIS:HD2	5	0.11
(1,7446)	1:100:A:ALA:H	1:95:A:TYR:HE1	10	0.11
(1,7354)	1:40:A:LEU:HD21	1:59:A:HIS:HD2	2	0.11
(1,7354)	1:40:A:LEU:HD23	1:59:A:HIS:HD2	9	0.11
(1,7321)	1:35:A:SER:HB3	1:37:A:TYR:HD1	8	0.11
(1,7315)	1:32:A:PHE:HZ	1:74:A:PHE:HA	4	0.11
(1,7315)	1:32:A:PHE:HZ	1:74:A:PHE:HA	7	0.11
(1,7315)	1:32:A:PHE:HZ	1:74:A:PHE:HA	9	0.11
(1,7315)	1:32:A:PHE:HZ	1:74:A:PHE:HA	10	0.11
(1,7268)	1:28:A:THR:HG23	1:29:A:TRP:HD1	8	0.11
(1,7214)	1:156:A:ALA:HB2	1:158:A:PRO:HA	6	0.11
(1,7170)	1:156:A:ALA:HA	1:157:A:ILE:HG21	6	0.11
(1,7162)	1:36:A:CYS:HB2	1:155:A:THR:HG23	5	0.11
(1,7079)	1:152:A:LEU:HD21	1:75:A:ILE:H	5	0.11
(1,7059)	1:78:A:THR:HG22	1:152:A:LEU:HD12	9	0.11
(1,7055)	1:152:A:LEU:HB2	1:89:A:ILE:HA	1	0.11
(1,7020)	1:42:A:GLU:H	1:149:A:GLU:HB3	2	0.11
(1,7013)	1:149:A:GLU:HA	1:43:A:ALA:HB2	8	0.11
(1,6974)	1:145:A:VAL:HG21	1:143:A:CYS:H	9	0.11
(1,6972)	1:145:A:VAL:H	1:145:A:VAL:HG11	6	0.11
(1,6950)	1:145:A:VAL:H	1:144:A:GLU:HA	8	0.11
(1,6803)	1:135:A:THR:HG21	1:134:A:LYS:H	5	0.11
(1,6779)	1:133:A:ILE:HA	1:133:A:ILE:HG21	7	0.11
(1,6778)	1:80:A:LYS:HE2	1:133:A:ILE:HG21	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6713)	1:131:A:LEU:HD22	1:131:A:LEU:HA	1	0.11
(1,6713)	1:131:A:LEU:HD23	1:131:A:LEU:HA	7	0.11
(1,6711)	1:131:A:LEU:HD21	1:91:A:LEU:HD22	6	0.11
(1,6698)	1:131:A:LEU:HD21	1:73:A:ALA:HA	3	0.11
(1,6695)	1:131:A:LEU:HD12	1:138:A:TRP:HA	9	0.11
(1,6658)	1:129:A:ALA:HB2	1:130:A:PHE:HD1	3	0.11
(1,6655)	1:129:A:ALA:HB2	1:129:A:ALA:HB1	3	0.11
(1,6655)	1:129:A:ALA:HB2	1:129:A:ALA:HB3	5	0.11
(1,6655)	1:129:A:ALA:HB2	1:129:A:ALA:HB1	9	0.11
(1,6655)	1:129:A:ALA:HB2	1:129:A:ALA:HB1	10	0.11
(1,6647)	1:129:A:ALA:HB1	1:91:A:LEU:HD23	3	0.11
(1,6625)	1:90:A:LEU:HD11	1:128:A:CYS:HB2	3	0.11
(1,6582)	1:124:A:LEU:H	1:124:A:LEU:HG	3	0.11
(1,6582)	1:124:A:LEU:H	1:124:A:LEU:HG	5	0.11
(1,6576)	1:124:A:LEU:HD23	1:123:A:ASP:HA	7	0.11
(1,6539)	1:118:A:GLN:HE21	1:120:A:ASP:HB2	1	0.11
(1,6436)	1:113:A:ASP:HA	1:114:A:LYS:HB3	2	0.11
(1,6436)	1:113:A:ASP:HA	1:114:A:LYS:HB3	4	0.11
(1,6436)	1:113:A:ASP:HA	1:114:A:LYS:HB3	6	0.11
(1,6347)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	2	0.11
(1,6289)	1:100:A:ALA:H	1:100:A:ALA:HB1	9	0.11
(1,6279)	1:99:A:ASP:HA	1:99:A:ASP:HB2	4	0.11
(1,6279)	1:99:A:ASP:HA	1:99:A:ASP:HB2	6	0.11
(1,6272)	1:97:A:THR:HG22	1:125:A:VAL:HG23	7	0.11
(1,6260)	1:97:A:THR:HB	1:99:A:ASP:H	10	0.11
(1,6254)	1:97:A:THR:HB	1:95:A:TYR:HD2	4	0.11
(1,6210)	1:93:A:MET:HB2	1:93:A:MET:HE2	9	0.11
(1,6209)	1:93:A:MET:HB2	1:102:A:PHE:HD1	6	0.11
(1,6181)	1:91:A:LEU:HD22	1:131:A:LEU:HB2	2	0.11
(1,6181)	1:91:A:LEU:HD22	1:131:A:LEU:HB2	10	0.11
(1,6175)	1:91:A:LEU:HB3	1:91:A:LEU:HD23	1	0.11
(1,6173)	1:91:A:LEU:H	1:91:A:LEU:HD22	7	0.11
(1,6162)	1:91:A:LEU:HD13	1:138:A:TRP:HB3	6	0.11
(1,6145)	1:91:A:LEU:HD12	1:65:A:SER:HA	8	0.11
(1,6080)	1:90:A:LEU:HB3	1:148:A:VAL:HB	8	0.11
(1,6031)	1:88:A:ASP:HA	1:130:A:PHE:HB2	8	0.11
(1,5994)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	6	0.11
(1,5994)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	7	0.11
(1,5933)	1:82:A:GLN:HA	1:82:A:GLN:HG2	1	0.11
(1,5923)	1:81:A:LYS:HE2	1:81:A:LYS:HG3	10	0.11
(1,5922)	1:81:A:LYS:HA	1:81:A:LYS:HE2	8	0.11
(1,5881)	1:80:A:LYS:HA	1:80:A:LYS:HG2	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5856)	1:79:A:LEU:HD12	1:79:A:LEU:HD22	1	0.11
(1,5833)	1:78:A:THR:HG21	1:82:A:GLN:HB3	1	0.11
(1,5833)	1:78:A:THR:HG21	1:82:A:GLN:HB3	2	0.11
(1,5826)	1:78:A:THR:HG22	1:82:A:GLN:HA	7	0.11
(1,5826)	1:78:A:THR:HG21	1:82:A:GLN:HA	9	0.11
(1,5815)	1:78:A:THR:H	1:77:A:ASP:HB2	6	0.11
(1,5815)	1:78:A:THR:H	1:77:A:ASP:HB2	8	0.11
(1,5778)	1:76:A:LEU:HD11	1:136:A:GLY:HA3	5	0.11
(1,5776)	1:76:A:LEU:HD13	1:133:A:ILE:HA	3	0.11
(1,5700)	1:74:A:PHE:HA	1:74:A:PHE:HB3	1	0.11
(1,5700)	1:74:A:PHE:HA	1:74:A:PHE:HB3	6	0.11
(1,5700)	1:74:A:PHE:HA	1:74:A:PHE:HB3	9	0.11
(1,5678)	1:72:A:ASN:HB2	1:113:A:ASP:HA	3	0.11
(1,5678)	1:72:A:ASN:HB2	1:113:A:ASP:HA	5	0.11
(1,5678)	1:72:A:ASN:HB2	1:113:A:ASP:HA	6	0.11
(1,5678)	1:72:A:ASN:HB2	1:113:A:ASP:HA	10	0.11
(1,5653)	1:66:A:ILE:HA	1:71:A:GLU:HB2	4	0.11
(1,5614)	1:69:A:GLU:H	1:69:A:GLU:HB2	6	0.11
(1,5614)	1:69:A:GLU:H	1:69:A:GLU:HB2	7	0.11
(1,5614)	1:69:A:GLU:H	1:69:A:GLU:HB2	9	0.11
(1,5573)	1:66:A:ILE:HG23	1:72:A:ASN:HA	8	0.11
(1,5565)	1:66:A:ILE:HG23	1:113:A:ASP:HA	7	0.11
(1,5565)	1:66:A:ILE:HG22	1:113:A:ASP:HA	8	0.11
(1,5547)	1:66:A:ILE:HD13	1:75:A:ILE:HA	7	0.11
(1,5517)	1:65:A:SER:HA	1:66:A:ILE:HD12	4	0.11
(1,5502)	1:64:A:ILE:HG23	1:64:A:ILE:HA	5	0.11
(1,5502)	1:64:A:ILE:HG21	1:64:A:ILE:HA	9	0.11
(1,5502)	1:64:A:ILE:HG21	1:64:A:ILE:HA	10	0.11
(1,5460)	1:63:A:MET:HG2	1:64:A:ILE:HG21	8	0.11
(1,5413)	1:61:A:ALA:HB1	1:56:A:CYS:H	6	0.11
(1,5323)	1:53:A:ARG:HB2	1:52:A:VAL:H	6	0.11
(1,5304)	1:52:A:VAL:HG13	1:48:A:SER:HA	1	0.11
(1,5304)	1:52:A:VAL:HG13	1:48:A:SER:HA	6	0.11
(1,5229)	1:49:A:ILE:HB	1:90:A:LEU:HD22	6	0.11
(1,5212)	1:48:A:SER:HB2	1:46:A:VAL:HG12	10	0.11
(1,5172)	1:46:A:VAL:HG13	1:52:A:VAL:HA	3	0.11
(1,5172)	1:46:A:VAL:HG11	1:52:A:VAL:HA	7	0.11
(1,5157)	1:45:A:LYS:HD2	1:45:A:LYS:HE2	4	0.11
(1,5157)	1:45:A:LYS:HD2	1:45:A:LYS:HE2	8	0.11
(1,4991)	1:38:A:ILE:HD11	1:25:A:PRO:HD2	7	0.11
(1,4867)	1:30:A:ILE:H	1:30:A:ILE:HG22	3	0.11
(1,4867)	1:30:A:ILE:H	1:30:A:ILE:HG21	9	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4823)	1:29:A:TRP:H	1:28:A:THR:HG21	5	0.11
(1,4767)	1:155:A:THR:H	1:154:A:LYS:HE2	8	0.11
(1,4767)	1:155:A:THR:H	1:154:A:LYS:HE2	9	0.11
(1,4767)	1:155:A:THR:H	1:154:A:LYS:HE2	10	0.11
(1,4749)	1:96:A:ASP:H	1:103:A:LYS:HA	10	0.11
(1,4706)	1:138:A:TRP:HD1	1:114:A:LYS:H	2	0.11
(1,4706)	1:138:A:TRP:HD1	1:114:A:LYS:H	6	0.11
(1,4648)	1:79:A:LEU:HD22	1:80:A:LYS:H	6	0.11
(1,4611)	1:55:A:GLN:HB3	1:44:A:ILE:HG23	6	0.11
(1,4588)	1:155:A:THR:H	1:154:A:LYS:HE2	8	0.11
(1,4588)	1:155:A:THR:H	1:154:A:LYS:HE2	9	0.11
(1,4588)	1:155:A:THR:H	1:154:A:LYS:HE2	10	0.11
(1,4570)	1:96:A:ASP:H	1:103:A:LYS:HA	10	0.11
(1,4527)	1:138:A:TRP:HD1	1:114:A:LYS:H	2	0.11
(1,4527)	1:138:A:TRP:HD1	1:114:A:LYS:H	6	0.11
(1,4469)	1:79:A:LEU:HD22	1:80:A:LYS:H	6	0.11
(1,4432)	1:55:A:GLN:HB3	1:44:A:ILE:HG23	6	0.11
(1,4383)	1:157:A:ILE:H	1:35:A:SER:HB3	7	0.11
(1,4370)	1:156:A:ALA:H	1:154:A:LYS:HE2	5	0.11
(1,4334)	1:154:A:LYS:H	1:38:A:ILE:HG22	5	0.11
(1,4322)	1:153:A:CYS:H	1:38:A:ILE:HD11	2	0.11
(1,4318)	1:153:A:CYS:H	1:151:A:THR:HG22	2	0.11
(1,4241)	1:142:A:ASN:HD21	1:127:A:THR:HG22	9	0.11
(1,4216)	1:140:A:LYS:H	1:124:A:LEU:HD23	3	0.11
(1,4079)	1:131:A:LEU:H	1:130:A:PHE:HB2	10	0.11
(1,4058)	1:130:A:PHE:H	1:139:A:LYS:HG2	5	0.11
(1,3914)	1:112:A:PHE:H	1:112:A:PHE:HD1	2	0.11
(1,3774)	1:100:A:ALA:H	1:98:A:ASP:HB2	1	0.11
(1,3774)	1:100:A:ALA:H	1:98:A:ASP:HB2	7	0.11
(1,3774)	1:100:A:ALA:H	1:98:A:ASP:HB2	10	0.11
(1,3732)	1:95:A:TYR:H	1:94:A:PHE:HB3	8	0.11
(1,3732)	1:95:A:TYR:H	1:94:A:PHE:HB3	10	0.11
(1,3715)	1:93:A:MET:H	1:94:A:PHE:HB2	9	0.11
(1,3674)	1:90:A:LEU:H	1:90:A:LEU:HB3	4	0.11
(1,3674)	1:90:A:LEU:H	1:90:A:LEU:HB3	7	0.11
(1,3654)	1:88:A:ASP:H	1:87:A:ASP:HB2	1	0.11
(1,3493)	1:72:A:ASN:HD21	1:114:A:LYS:HE3	5	0.11
(1,3493)	1:72:A:ASN:HD21	1:114:A:LYS:HE3	7	0.11
(1,3482)	1:72:A:ASN:HD21	1:66:A:ILE:HG21	3	0.11
(1,3480)	1:72:A:ASN:HD21	1:76:A:LEU:HG	1	0.11
(1,3477)	1:72:A:ASN:H	1:72:A:ASN:HD21	1	0.11
(1,3477)	1:72:A:ASN:H	1:72:A:ASN:HD21	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3477)	1:72:A:ASN:H	1:72:A:ASN:HD21	3	0.11
(1,3477)	1:72:A:ASN:H	1:72:A:ASN:HD21	4	0.11
(1,3477)	1:72:A:ASN:H	1:72:A:ASN:HD21	6	0.11
(1,3477)	1:72:A:ASN:H	1:72:A:ASN:HD21	7	0.11
(1,3448)	1:70:A:GLU:H	1:70:A:GLU:HB3	1	0.11
(1,3436)	1:68:A:ASN:HD22	1:70:A:GLU:HB3	2	0.11
(1,3436)	1:68:A:ASN:HD22	1:70:A:GLU:HB3	7	0.11
(1,3337)	1:61:A:ALA:H	1:59:A:HIS:HA	3	0.11
(1,3337)	1:61:A:ALA:H	1:59:A:HIS:HA	4	0.11
(1,3253)	1:55:A:GLN:H	1:55:A:GLN:HG2	3	0.11
(1,3253)	1:55:A:GLN:H	1:55:A:GLN:HG2	5	0.11
(1,3222)	1:53:A:ARG:HE	1:105:A:PHE:HB2	7	0.11
(1,3207)	1:53:A:ARG:H	1:46:A:VAL:HG11	7	0.11
(1,3160)	1:49:A:ILE:H	1:144:A:GLU:HG2	1	0.11
(1,3160)	1:49:A:ILE:H	1:144:A:GLU:HG2	2	0.11
(1,3131)	1:45:A:LYS:H	1:45:A:LYS:HE2	10	0.11
(1,3103)	1:41:A:GLN:HE21	1:40:A:LEU:H	7	0.11
(1,2889)	1:24:A:CYS:H	1:23:A:ASP:HA	2	0.11
(1,2889)	1:24:A:CYS:H	1:23:A:ASP:HA	8	0.11
(1,2872)	1:138:A:TRP:HZ3	1:115:A:TRP:HD1	3	0.11
(1,2825)	1:131:A:LEU:HD21	1:138:A:TRP:HD1	6	0.11
(1,2807)	1:135:A:THR:H	1:132:A:HIS:HD2	5	0.11
(1,2679)	1:100:A:ALA:H	1:95:A:TYR:HE1	10	0.11
(1,2587)	1:40:A:LEU:HD21	1:59:A:HIS:HD2	2	0.11
(1,2587)	1:40:A:LEU:HD23	1:59:A:HIS:HD2	9	0.11
(1,2554)	1:35:A:SER:HB3	1:37:A:TYR:HD1	8	0.11
(1,2548)	1:32:A:PHE:HZ	1:74:A:PHE:HA	4	0.11
(1,2548)	1:32:A:PHE:HZ	1:74:A:PHE:HA	7	0.11
(1,2548)	1:32:A:PHE:HZ	1:74:A:PHE:HA	9	0.11
(1,2548)	1:32:A:PHE:HZ	1:74:A:PHE:HA	10	0.11
(1,2501)	1:28:A:THR:HG23	1:29:A:TRP:HD1	8	0.11
(1,2447)	1:156:A:ALA:HB2	1:158:A:PRO:HA	6	0.11
(1,2403)	1:156:A:ALA:HA	1:157:A:ILE:HG21	6	0.11
(1,2395)	1:36:A:CYS:HB2	1:155:A:THR:HG23	5	0.11
(1,2312)	1:152:A:LEU:HD21	1:75:A:ILE:H	5	0.11
(1,2292)	1:78:A:THR:HG22	1:152:A:LEU:HD12	9	0.11
(1,2288)	1:152:A:LEU:HB2	1:89:A:ILE:HA	1	0.11
(1,2253)	1:42:A:GLU:H	1:149:A:GLU:HB3	2	0.11
(1,2246)	1:149:A:GLU:HA	1:43:A:ALA:HB2	8	0.11
(1,2207)	1:145:A:VAL:HG21	1:143:A:CYS:H	9	0.11
(1,2205)	1:145:A:VAL:H	1:145:A:VAL:HG11	6	0.11
(1,2183)	1:145:A:VAL:H	1:144:A:GLU:HA	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2036)	1:135:A:THR:HG21	1:134:A:LYS:H	5	0.11
(1,2012)	1:133:A:ILE:HA	1:133:A:ILE:HG21	7	0.11
(1,2011)	1:80:A:LYS:HE2	1:133:A:ILE:HG21	8	0.11
(1,1946)	1:131:A:LEU:HD22	1:131:A:LEU:HA	1	0.11
(1,1946)	1:131:A:LEU:HD23	1:131:A:LEU:HA	7	0.11
(1,1944)	1:131:A:LEU:HD21	1:91:A:LEU:HD22	6	0.11
(1,1931)	1:131:A:LEU:HD21	1:73:A:ALA:HA	3	0.11
(1,1928)	1:131:A:LEU:HD12	1:138:A:TRP:HA	9	0.11
(1,1891)	1:129:A:ALA:HB2	1:130:A:PHE:HD1	3	0.11
(1,1888)	1:129:A:ALA:HB2	1:129:A:ALA:HB1	3	0.11
(1,1888)	1:129:A:ALA:HB2	1:129:A:ALA:HB3	5	0.11
(1,1888)	1:129:A:ALA:HB2	1:129:A:ALA:HB1	9	0.11
(1,1888)	1:129:A:ALA:HB2	1:129:A:ALA:HB1	10	0.11
(1,1880)	1:129:A:ALA:HB1	1:91:A:LEU:HD23	3	0.11
(1,1858)	1:90:A:LEU:HD11	1:128:A:CYS:HB2	3	0.11
(1,1815)	1:124:A:LEU:H	1:124:A:LEU:HG	3	0.11
(1,1815)	1:124:A:LEU:H	1:124:A:LEU:HG	5	0.11
(1,1809)	1:124:A:LEU:HD23	1:123:A:ASP:HA	7	0.11
(1,1772)	1:118:A:GLN:HE21	1:120:A:ASP:HB2	1	0.11
(1,1669)	1:113:A:ASP:HA	1:114:A:LYS:HB3	2	0.11
(1,1669)	1:113:A:ASP:HA	1:114:A:LYS:HB3	4	0.11
(1,1669)	1:113:A:ASP:HA	1:114:A:LYS:HB3	6	0.11
(1,1580)	1:103:A:LYS:HG2	1:94:A:PHE:HD1	2	0.11
(1,1522)	1:100:A:ALA:H	1:100:A:ALA:HB1	9	0.11
(1,1512)	1:99:A:ASP:HA	1:99:A:ASP:HB2	4	0.11
(1,1512)	1:99:A:ASP:HA	1:99:A:ASP:HB2	6	0.11
(1,1505)	1:97:A:THR:HG22	1:125:A:VAL:HG23	7	0.11
(1,1493)	1:97:A:THR:HB	1:99:A:ASP:H	10	0.11
(1,1487)	1:97:A:THR:HB	1:95:A:TYR:HD2	4	0.11
(1,1443)	1:93:A:MET:HB2	1:93:A:MET:HE2	9	0.11
(1,1442)	1:93:A:MET:HB2	1:102:A:PHE:HD1	6	0.11
(1,1414)	1:91:A:LEU:HD22	1:131:A:LEU:HB2	2	0.11
(1,1414)	1:91:A:LEU:HD22	1:131:A:LEU:HB2	10	0.11
(1,1408)	1:91:A:LEU:HB3	1:91:A:LEU:HD23	1	0.11
(1,1406)	1:91:A:LEU:H	1:91:A:LEU:HD22	7	0.11
(1,1395)	1:91:A:LEU:HD13	1:138:A:TRP:HB3	6	0.11
(1,1378)	1:91:A:LEU:HD12	1:65:A:SER:HA	8	0.11
(1,1313)	1:90:A:LEU:HB3	1:148:A:VAL:HB	8	0.11
(1,1264)	1:88:A:ASP:HA	1:130:A:PHE:HB2	8	0.11
(1,1227)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	6	0.11
(1,1227)	1:86:A:PRO:HD3	1:79:A:LEU:HB2	7	0.11
(1,1166)	1:82:A:GLN:HA	1:82:A:GLN:HG2	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1156)	1:81:A:LYS:HE2	1:81:A:LYS:HG3	10	0.11
(1,1155)	1:81:A:LYS:HA	1:81:A:LYS:HE2	8	0.11
(1,1114)	1:80:A:LYS:HA	1:80:A:LYS:HG2	6	0.11
(1,1089)	1:79:A:LEU:HD12	1:79:A:LEU:HD22	1	0.11
(1,1066)	1:78:A:THR:HG21	1:82:A:GLN:HB3	1	0.11
(1,1066)	1:78:A:THR:HG21	1:82:A:GLN:HB3	2	0.11
(1,1059)	1:78:A:THR:HG22	1:82:A:GLN:HA	7	0.11
(1,1059)	1:78:A:THR:HG21	1:82:A:GLN:HA	9	0.11
(1,1048)	1:78:A:THR:H	1:77:A:ASP:HB2	6	0.11
(1,1048)	1:78:A:THR:H	1:77:A:ASP:HB2	8	0.11
(1,1011)	1:76:A:LEU:HD11	1:136:A:GLY:HA3	5	0.11
(1,1009)	1:76:A:LEU:HD13	1:133:A:ILE:HA	3	0.11
(1,933)	1:74:A:PHE:HA	1:74:A:PHE:HB3	1	0.11
(1,933)	1:74:A:PHE:HA	1:74:A:PHE:HB3	6	0.11
(1,933)	1:74:A:PHE:HA	1:74:A:PHE:HB3	9	0.11
(1,911)	1:72:A:ASN:HB2	1:113:A:ASP:HA	3	0.11
(1,911)	1:72:A:ASN:HB2	1:113:A:ASP:HA	5	0.11
(1,911)	1:72:A:ASN:HB2	1:113:A:ASP:HA	6	0.11
(1,911)	1:72:A:ASN:HB2	1:113:A:ASP:HA	10	0.11
(1,886)	1:66:A:ILE:HA	1:71:A:GLU:HB2	4	0.11
(1,847)	1:69:A:GLU:H	1:69:A:GLU:HB2	6	0.11
(1,847)	1:69:A:GLU:H	1:69:A:GLU:HB2	7	0.11
(1,847)	1:69:A:GLU:H	1:69:A:GLU:HB2	9	0.11
(1,806)	1:66:A:ILE:HG23	1:72:A:ASN:HA	8	0.11
(1,798)	1:66:A:ILE:HG23	1:113:A:ASP:HA	7	0.11
(1,798)	1:66:A:ILE:HG22	1:113:A:ASP:HA	8	0.11
(1,780)	1:66:A:ILE:HD13	1:75:A:ILE:HA	7	0.11
(1,750)	1:65:A:SER:HA	1:66:A:ILE:HD12	4	0.11
(1,735)	1:64:A:ILE:HG23	1:64:A:ILE:HA	5	0.11
(1,735)	1:64:A:ILE:HG21	1:64:A:ILE:HA	9	0.11
(1,735)	1:64:A:ILE:HG21	1:64:A:ILE:HA	10	0.11
(1,693)	1:63:A:MET:HG2	1:64:A:ILE:HG21	8	0.11
(1,646)	1:61:A:ALA:HB1	1:56:A:CYS:H	6	0.11
(1,556)	1:53:A:ARG:HB2	1:52:A:VAL:H	6	0.11
(1,537)	1:52:A:VAL:HG13	1:48:A:SER:HA	1	0.11
(1,537)	1:52:A:VAL:HG13	1:48:A:SER:HA	6	0.11
(1,462)	1:49:A:ILE:HB	1:90:A:LEU:HD22	6	0.11
(1,445)	1:48:A:SER:HB2	1:46:A:VAL:HG12	10	0.11
(1,405)	1:46:A:VAL:HG13	1:52:A:VAL:HA	3	0.11
(1,405)	1:46:A:VAL:HG11	1:52:A:VAL:HA	7	0.11
(1,390)	1:45:A:LYS:HD2	1:45:A:LYS:HE2	4	0.11
(1,390)	1:45:A:LYS:HD2	1:45:A:LYS:HE2	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,224)	1:38:A:ILE:HD11	1:25:A:PRO:HD2	7	0.11
(1,100)	1:30:A:ILE:H	1:30:A:ILE:HG22	3	0.11
(1,100)	1:30:A:ILE:H	1:30:A:ILE:HG21	9	0.11
(1,56)	1:29:A:TRP:H	1:28:A:THR:HG21	5	0.11
(1,9152)	1:157:A:ILE:H	1:156:A:ALA:HB2	2	0.1
(1,9089)	1:153:A:CYS:H	1:38:A:ILE:HD13	7	0.1
(1,8906)	1:136:A:GLY:H	1:132:A:HIS:HE1	5	0.1
(1,8781)	1:124:A:LEU:H	1:95:A:TYR:HD1	1	0.1
(1,8482)	1:93:A:MET:H	1:94:A:PHE:HB2	5	0.1
(1,8244)	1:72:A:ASN:H	1:72:A:ASN:HD21	8	0.1
(1,8117)	1:61:A:ALA:H	1:155:A:THR:HG23	3	0.1
(1,8104)	1:61:A:ALA:H	1:59:A:HIS:HA	5	0.1
(1,8104)	1:61:A:ALA:H	1:59:A:HIS:HA	8	0.1
(1,8071)	1:58:A:ASP:H	1:56:A:CYS:HB3	1	0.1
(1,8058)	1:56:A:CYS:H	1:56:A:CYS:HB3	2	0.1
(1,8024)	1:55:A:GLN:HE21	1:44:A:ILE:HG21	2	0.1
(1,7966)	1:52:A:VAL:H	1:46:A:VAL:HG22	9	0.1
(1,7922)	1:48:A:SER:H	1:47:A:GLU:HB3	9	0.1
(1,7898)	1:45:A:LYS:H	1:45:A:LYS:HE3	7	0.1
(1,7650)	1:159:A:TYR:HD1	1:159:A:TYR:HA	1	0.1
(1,7611)	1:138:A:TRP:HE3	1:138:A:TRP:HA	2	0.1
(1,7611)	1:138:A:TRP:HE3	1:138:A:TRP:HA	5	0.1
(1,7458)	1:102:A:PHE:HD1	1:124:A:LEU:HD22	9	0.1
(1,7446)	1:100:A:ALA:H	1:95:A:TYR:HE1	6	0.1
(1,7297)	1:29:A:TRP:HZ3	1:59:A:HIS:HB2	7	0.1
(1,7225)	1:157:A:ILE:HG12	1:158:A:PRO:HD2	6	0.1
(1,7219)	1:159:A:TYR:H	1:158:A:PRO:HA	4	0.1
(1,7055)	1:152:A:LEU:HB2	1:89:A:ILE:HA	3	0.1
(1,7055)	1:152:A:LEU:HB2	1:89:A:ILE:HA	8	0.1
(1,6986)	1:146:A:SER:HA	1:146:A:SER:HB2	1	0.1
(1,6986)	1:146:A:SER:HA	1:146:A:SER:HB2	9	0.1
(1,6986)	1:146:A:SER:HA	1:146:A:SER:HB2	10	0.1
(1,6950)	1:145:A:VAL:H	1:144:A:GLU:HA	6	0.1
(1,6950)	1:145:A:VAL:H	1:144:A:GLU:HA	7	0.1
(1,6804)	1:135:A:THR:HG21	1:134:A:LYS:HA	5	0.1
(1,6779)	1:133:A:ILE:HA	1:133:A:ILE:HG21	6	0.1
(1,6576)	1:124:A:LEU:HD21	1:123:A:ASP:HA	3	0.1
(1,6546)	1:122:A:GLU:H	1:122:A:GLU:HB3	8	0.1
(1,6475)	1:114:A:LYS:HE3	1:114:A:LYS:HG3	4	0.1
(1,6436)	1:113:A:ASP:HA	1:114:A:LYS:HB3	3	0.1
(1,6436)	1:113:A:ASP:HA	1:114:A:LYS:HB3	7	0.1
(1,6436)	1:113:A:ASP:HA	1:114:A:LYS:HB3	8	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6414)	1:111:A:THR:HG22	1:104:A:TRP:HE1	1	0.1
(1,6348)	1:103:A:LYS:HG2	1:96:A:ASP:HB2	7	0.1
(1,6260)	1:97:A:THR:HB	1:99:A:ASP:H	4	0.1
(1,6031)	1:88:A:ASP:HA	1:130:A:PHE:HB2	9	0.1
(1,5970)	1:85:A:GLY:HA3	1:86:A:PRO:HG3	7	0.1
(1,5970)	1:85:A:GLY:HA3	1:86:A:PRO:HG3	10	0.1
(1,5922)	1:81:A:LYS:HA	1:81:A:LYS:HE2	6	0.1
(1,5919)	1:81:A:LYS:HD2	1:77:A:ASP:HB2	8	0.1
(1,5894)	1:80:A:LYS:HD2	1:85:A:GLY:HA2	10	0.1
(1,5833)	1:78:A:THR:HG21	1:82:A:GLN:HB3	9	0.1
(1,5815)	1:78:A:THR:H	1:77:A:ASP:HB2	1	0.1
(1,5811)	1:77:A:ASP:HB2	1:81:A:LYS:HB3	6	0.1
(1,5700)	1:74:A:PHE:HA	1:74:A:PHE:HB3	3	0.1
(1,5700)	1:74:A:PHE:HA	1:74:A:PHE:HB3	4	0.1
(1,5700)	1:74:A:PHE:HA	1:74:A:PHE:HB3	5	0.1
(1,5700)	1:74:A:PHE:HA	1:74:A:PHE:HB3	7	0.1
(1,5700)	1:74:A:PHE:HA	1:74:A:PHE:HB3	8	0.1
(1,5696)	1:74:A:PHE:HA	1:32:A:PHE:HE1	10	0.1
(1,5694)	1:73:A:ALA:HA	1:73:A:ALA:HB1	2	0.1
(1,5694)	1:73:A:ALA:HA	1:73:A:ALA:HB2	10	0.1
(1,5626)	1:69:A:GLU:HB2	1:70:A:GLU:HA	5	0.1
(1,5614)	1:69:A:GLU:H	1:69:A:GLU:HB2	2	0.1
(1,5540)	1:66:A:ILE:HD11	1:66:A:ILE:HD13	7	0.1
(1,5502)	1:64:A:ILE:HG21	1:64:A:ILE:HA	3	0.1
(1,5502)	1:64:A:ILE:HG23	1:64:A:ILE:HA	4	0.1
(1,5502)	1:64:A:ILE:HG21	1:64:A:ILE:HA	8	0.1
(1,5421)	1:61:A:ALA:HB1	1:155:A:THR:HA	7	0.1
(1,5235)	1:49:A:ILE:HD13	1:143:A:CYS:HA	3	0.1
(1,5212)	1:48:A:SER:HB2	1:46:A:VAL:HG11	3	0.1
(1,5184)	1:51:A:ASP:H	1:46:A:VAL:HG22	4	0.1
(1,5183)	1:46:A:VAL:HG13	1:148:A:VAL:HG23	10	0.1
(1,5157)	1:45:A:LYS:HD2	1:45:A:LYS:HE2	9	0.1
(1,5008)	1:38:A:ILE:HD13	1:153:A:CYS:HB2	7	0.1
(1,5008)	1:38:A:ILE:HD11	1:153:A:CYS:HB2	10	0.1
(1,4867)	1:30:A:ILE:H	1:30:A:ILE:HG21	4	0.1
(1,4867)	1:30:A:ILE:H	1:30:A:ILE:HG22	5	0.1
(1,4867)	1:30:A:ILE:H	1:30:A:ILE:HG23	8	0.1
(1,4736)	1:73:A:ALA:H	1:76:A:LEU:HD21	1	0.1
(1,4648)	1:79:A:LEU:HD21	1:80:A:LYS:H	1	0.1
(1,4557)	1:73:A:ALA:H	1:76:A:LEU:HD21	1	0.1
(1,4469)	1:79:A:LEU:HD21	1:80:A:LYS:H	1	0.1
(1,4385)	1:157:A:ILE:H	1:156:A:ALA:HB2	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4322)	1:153:A:CYS:H	1:38:A:ILE:HD13	7	0.1
(1,4139)	1:136:A:GLY:H	1:132:A:HIS:HE1	5	0.1
(1,4014)	1:124:A:LEU:H	1:95:A:TYR:HD1	1	0.1
(1,3715)	1:93:A:MET:H	1:94:A:PHE:HB2	5	0.1
(1,3477)	1:72:A:ASN:H	1:72:A:ASN:HD21	8	0.1
(1,3350)	1:61:A:ALA:H	1:155:A:THR:HG23	3	0.1
(1,3337)	1:61:A:ALA:H	1:59:A:HIS:HA	5	0.1
(1,3337)	1:61:A:ALA:H	1:59:A:HIS:HA	8	0.1
(1,3304)	1:58:A:ASP:H	1:56:A:CYS:HB3	1	0.1
(1,3291)	1:56:A:CYS:H	1:56:A:CYS:HB3	2	0.1
(1,3257)	1:55:A:GLN:HE21	1:44:A:ILE:HG21	2	0.1
(1,3199)	1:52:A:VAL:H	1:46:A:VAL:HG22	9	0.1
(1,3155)	1:48:A:SER:H	1:47:A:GLU:HB3	9	0.1
(1,3131)	1:45:A:LYS:H	1:45:A:LYS:HE3	7	0.1
(1,2883)	1:159:A:TYR:HD1	1:159:A:TYR:HA	1	0.1
(1,2844)	1:138:A:TRP:HE3	1:138:A:TRP:HA	2	0.1
(1,2844)	1:138:A:TRP:HE3	1:138:A:TRP:HA	5	0.1
(1,2691)	1:102:A:PHE:HD1	1:124:A:LEU:HD22	9	0.1
(1,2679)	1:100:A:ALA:H	1:95:A:TYR:HE1	6	0.1
(1,2530)	1:29:A:TRP:HZ3	1:59:A:HIS:HB2	7	0.1
(1,2458)	1:157:A:ILE:HG12	1:158:A:PRO:HD2	6	0.1
(1,2452)	1:159:A:TYR:H	1:158:A:PRO:HA	4	0.1
(1,2288)	1:152:A:LEU:HB2	1:89:A:ILE:HA	3	0.1
(1,2288)	1:152:A:LEU:HB2	1:89:A:ILE:HA	8	0.1
(1,2219)	1:146:A:SER:HA	1:146:A:SER:HB2	1	0.1
(1,2219)	1:146:A:SER:HA	1:146:A:SER:HB2	9	0.1
(1,2219)	1:146:A:SER:HA	1:146:A:SER:HB2	10	0.1
(1,2183)	1:145:A:VAL:H	1:144:A:GLU:HA	6	0.1
(1,2183)	1:145:A:VAL:H	1:144:A:GLU:HA	7	0.1
(1,2037)	1:135:A:THR:HG21	1:134:A:LYS:HA	5	0.1
(1,2012)	1:133:A:ILE:HA	1:133:A:ILE:HG21	6	0.1
(1,1809)	1:124:A:LEU:HD21	1:123:A:ASP:HA	3	0.1
(1,1779)	1:122:A:GLU:H	1:122:A:GLU:HB3	8	0.1
(1,1708)	1:114:A:LYS:HE3	1:114:A:LYS:HG3	4	0.1
(1,1669)	1:113:A:ASP:HA	1:114:A:LYS:HB3	3	0.1
(1,1669)	1:113:A:ASP:HA	1:114:A:LYS:HB3	7	0.1
(1,1669)	1:113:A:ASP:HA	1:114:A:LYS:HB3	8	0.1
(1,1647)	1:111:A:THR:HG22	1:104:A:TRP:HE1	1	0.1
(1,1581)	1:103:A:LYS:HG2	1:96:A:ASP:HB2	7	0.1
(1,1493)	1:97:A:THR:HB	1:99:A:ASP:H	4	0.1
(1,1264)	1:88:A:ASP:HA	1:130:A:PHE:HB2	9	0.1
(1,1203)	1:85:A:GLY:HA3	1:86:A:PRO:HG3	7	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1203)	1:85:A:GLY:HA3	1:86:A:PRO:HG3	10	0.1
(1,1155)	1:81:A:LYS:HA	1:81:A:LYS:HE2	6	0.1
(1,1152)	1:81:A:LYS:HD2	1:77:A:ASP:HB2	8	0.1
(1,1127)	1:80:A:LYS:HD2	1:85:A:GLY:HA2	10	0.1
(1,1066)	1:78:A:THR:HG21	1:82:A:GLN:HB3	9	0.1
(1,1048)	1:78:A:THR:H	1:77:A:ASP:HB2	1	0.1
(1,1044)	1:77:A:ASP:HB2	1:81:A:LYS:HB3	6	0.1
(1,933)	1:74:A:PHE:HA	1:74:A:PHE:HB3	3	0.1
(1,933)	1:74:A:PHE:HA	1:74:A:PHE:HB3	4	0.1
(1,933)	1:74:A:PHE:HA	1:74:A:PHE:HB3	5	0.1
(1,933)	1:74:A:PHE:HA	1:74:A:PHE:HB3	7	0.1
(1,933)	1:74:A:PHE:HA	1:74:A:PHE:HB3	8	0.1
(1,929)	1:74:A:PHE:HA	1:32:A:PHE:HE1	10	0.1
(1,927)	1:73:A:ALA:HA	1:73:A:ALA:HB1	2	0.1
(1,927)	1:73:A:ALA:HA	1:73:A:ALA:HB2	10	0.1
(1,859)	1:69:A:GLU:HB2	1:70:A:GLU:HA	5	0.1
(1,847)	1:69:A:GLU:H	1:69:A:GLU:HB2	2	0.1
(1,773)	1:66:A:ILE:HD11	1:66:A:ILE:HD13	7	0.1
(1,735)	1:64:A:ILE:HG21	1:64:A:ILE:HA	3	0.1
(1,735)	1:64:A:ILE:HG23	1:64:A:ILE:HA	4	0.1
(1,735)	1:64:A:ILE:HG21	1:64:A:ILE:HA	8	0.1
(1,654)	1:61:A:ALA:HB1	1:155:A:THR:HA	7	0.1
(1,468)	1:49:A:ILE:HD13	1:143:A:CYS:HA	3	0.1
(1,445)	1:48:A:SER:HB2	1:46:A:VAL:HG11	3	0.1
(1,417)	1:51:A:ASP:H	1:46:A:VAL:HG22	4	0.1
(1,416)	1:46:A:VAL:HG13	1:148:A:VAL:HG23	10	0.1
(1,390)	1:45:A:LYS:HD2	1:45:A:LYS:HE2	9	0.1
(1,241)	1:38:A:ILE:HD13	1:153:A:CYS:HB2	7	0.1
(1,241)	1:38:A:ILE:HD11	1:153:A:CYS:HB2	10	0.1
(1,100)	1:30:A:ILE:H	1:30:A:ILE:HG21	4	0.1
(1,100)	1:30:A:ILE:H	1:30:A:ILE:HG22	5	0.1
(1,100)	1:30:A:ILE:H	1:30:A:ILE:HG23	8	0.1

10 Dihedral-angle violation analysis

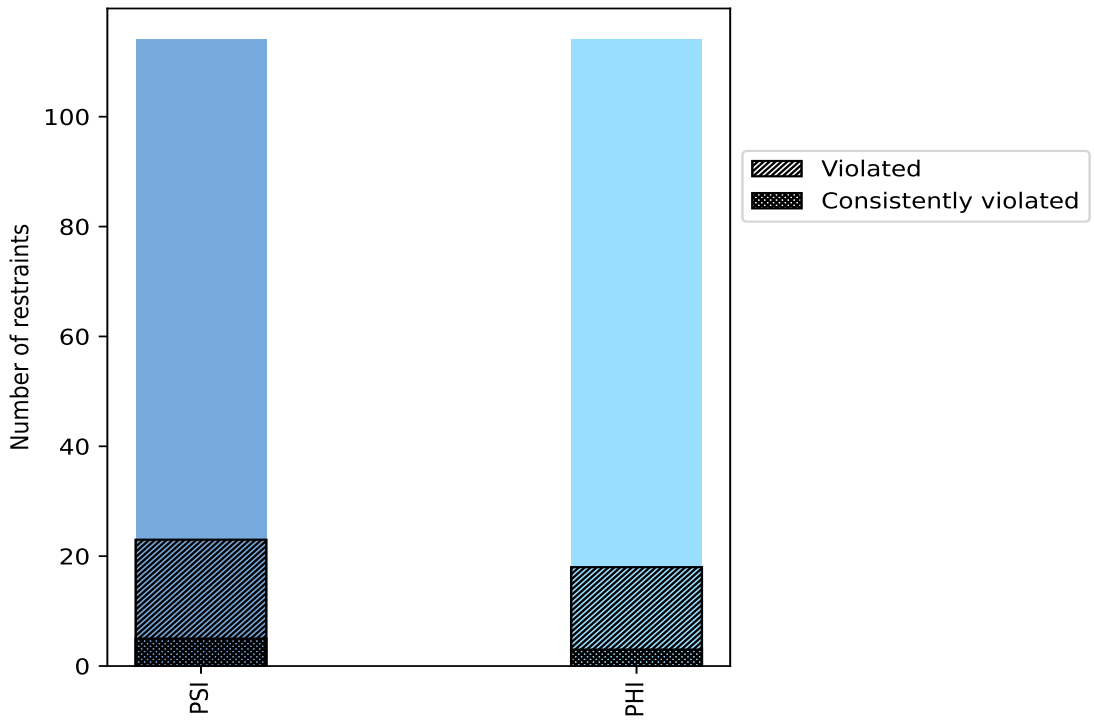
10.1 Summary of dihedral-angle violations

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

Angle type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
PSI	114	50.0	23	20.2	10.1	5	4.4	2.2
PHI	114	50.0	18	15.8	7.9	3	2.6	1.3
Total	228	100.0	41	18.0	18.0	8	3.5	3.5

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

10.1.1 Bar chart : Distribution of dihedral-angles and violations



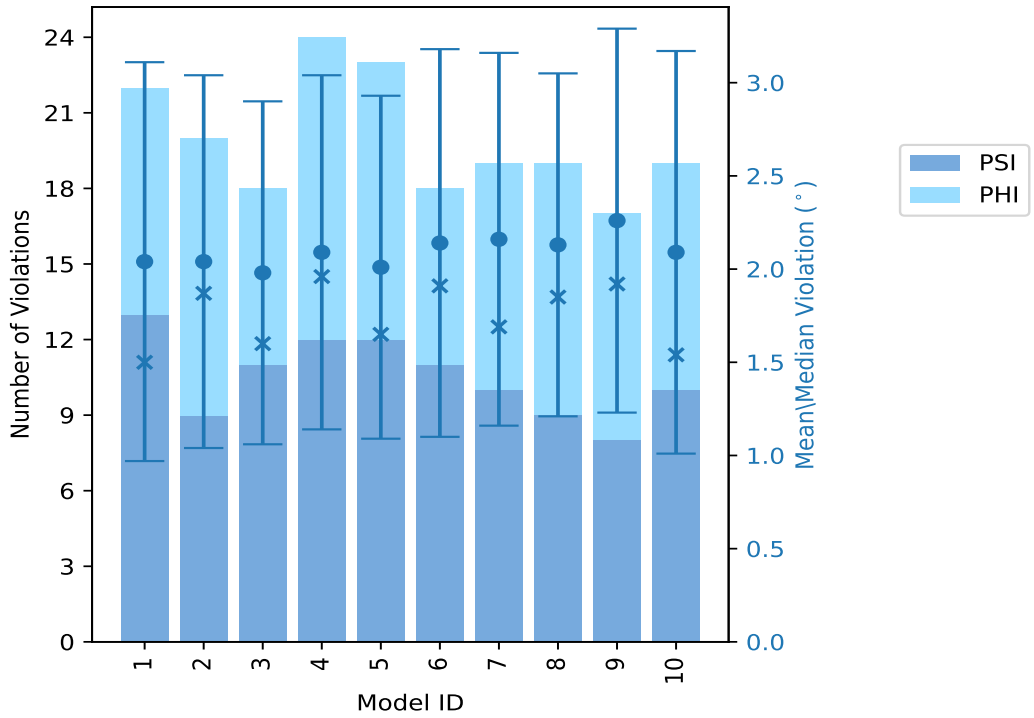
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	Total				
1	13	9	22	2.04	4.5	1.07	1.5
2	9	11	20	2.04	4.78	1.0	1.87
3	11	7	18	1.98	4.44	0.92	1.6
4	12	12	24	2.09	4.16	0.95	1.96
5	12	11	23	2.01	4.57	0.92	1.65
6	11	7	18	2.14	4.56	1.04	1.91
7	10	9	19	2.16	4.53	1.0	1.69
8	9	10	19	2.13	4.75	0.92	1.85
9	8	9	17	2.26	4.69	1.03	1.92
10	10	9	19	2.09	4.44	1.08	1.54

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



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

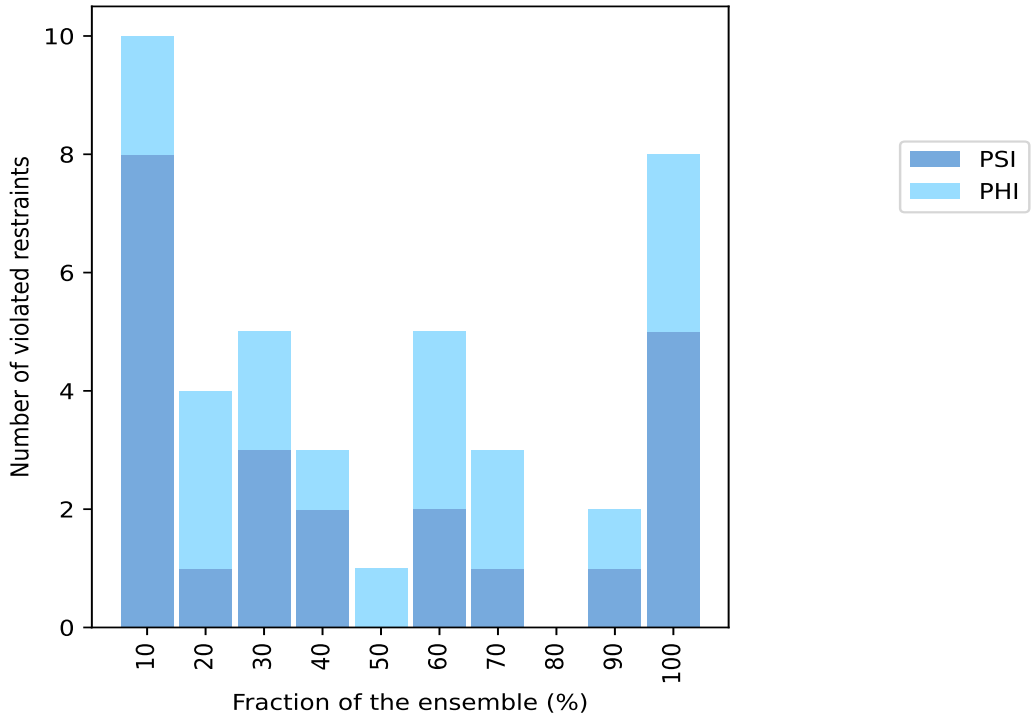
10.3 Dihedral-angle violation statistics for the ensemble

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

Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count[1]	%
8	2	10	1	10.0
1	3	4	2	20.0
3	2	5	3	30.0
2	1	3	4	40.0
0	1	1	5	50.0
2	3	5	6	60.0
1	2	3	7	70.0
0	0	0	8	80.0
1	1	2	9	90.0
5	3	8	10	100.0

[1] Number of models with violations

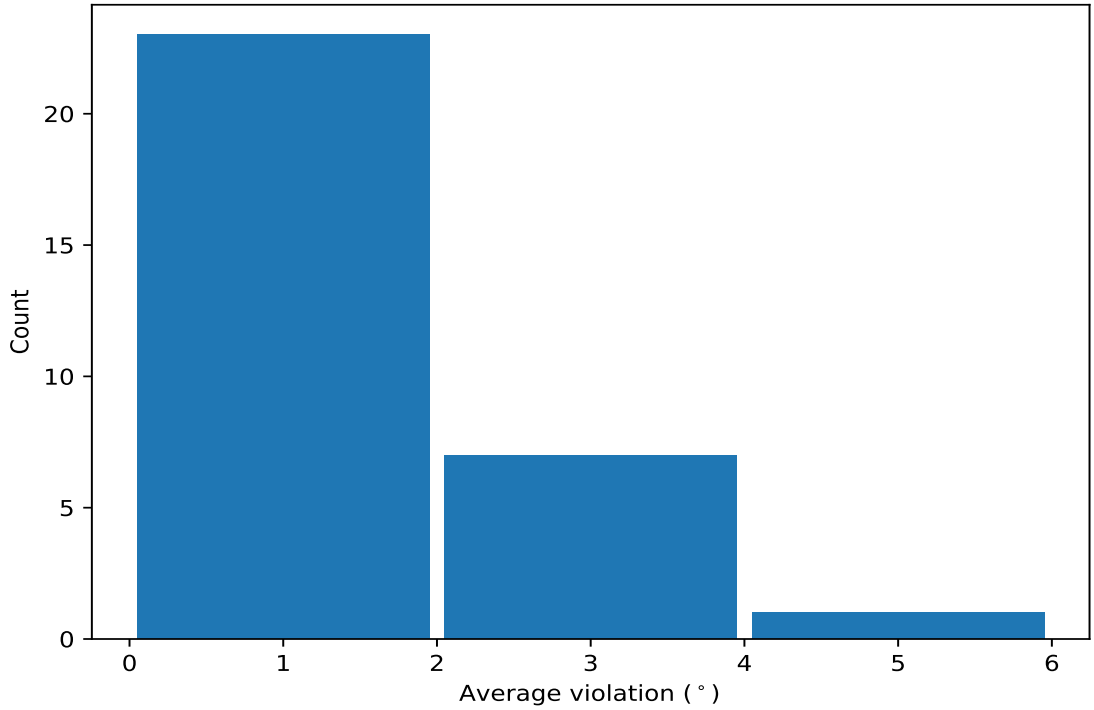
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble



10.4 Most violated dihedral-angle restraints in the ensemble

10.4.1 Histogram : Distribution of mean dihedral-angle violations

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



10.4.2 Table: Most violated dihedral-angle restraints

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,204)	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	1:130:A:PHE:N	10	4.54	0.17	4.54
(1,130)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLU:N	10	3.82	0.22	3.76
(1,106)	1:148:A:VAL:C	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	10	3.1	0.5	3.04
(1,90)	1:128:A:CYS:C	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	10	3.09	0.44	3.18
(1,133)	1:44:A:ILE:N	1:44:A:ILE:CA	1:44:A:ILE:C	1:45:A:LYS:N	10	3.08	0.22	3.06
(1,170)	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	1:87:A:ASP:N	10	2.34	0.43	2.3
(1,195)	1:114:A:LYS:N	1:114:A:LYS:CA	1:114:A:LYS:C	1:115:A:TRP:N	10	2.12	0.38	2.08
(1,61)	1:90:A:LEU:C	1:91:A:LEU:N	1:91:A:LEU:CA	1:91:A:LEU:C	10	1.44	0.3	1.34
(1,151)	1:62:A:ASP:N	1:62:A:ASP:CA	1:62:A:ASP:C	1:63:A:MET:N	9	2.37	0.45	2.43
(1,100)	1:138:A:TRP:C	1:139:A:LYS:N	1:139:A:LYS:CA	1:139:A:LYS:C	9	1.6	0.27	1.54
(1,150)	1:61:A:ALA:N	1:61:A:ALA:CA	1:61:A:ALA:C	1:62:A:ASP:N	7	1.45	0.34	1.27
(1,13)	1:37:A:TYR:C	1:38:A:ILE:N	1:38:A:ILE:CA	1:38:A:ILE:C	7	1.42	0.13	1.41
(1,15)	1:39:A:PHE:C	1:40:A:LEU:N	1:40:A:LEU:CA	1:40:A:LEU:C	7	1.22	0.18	1.2

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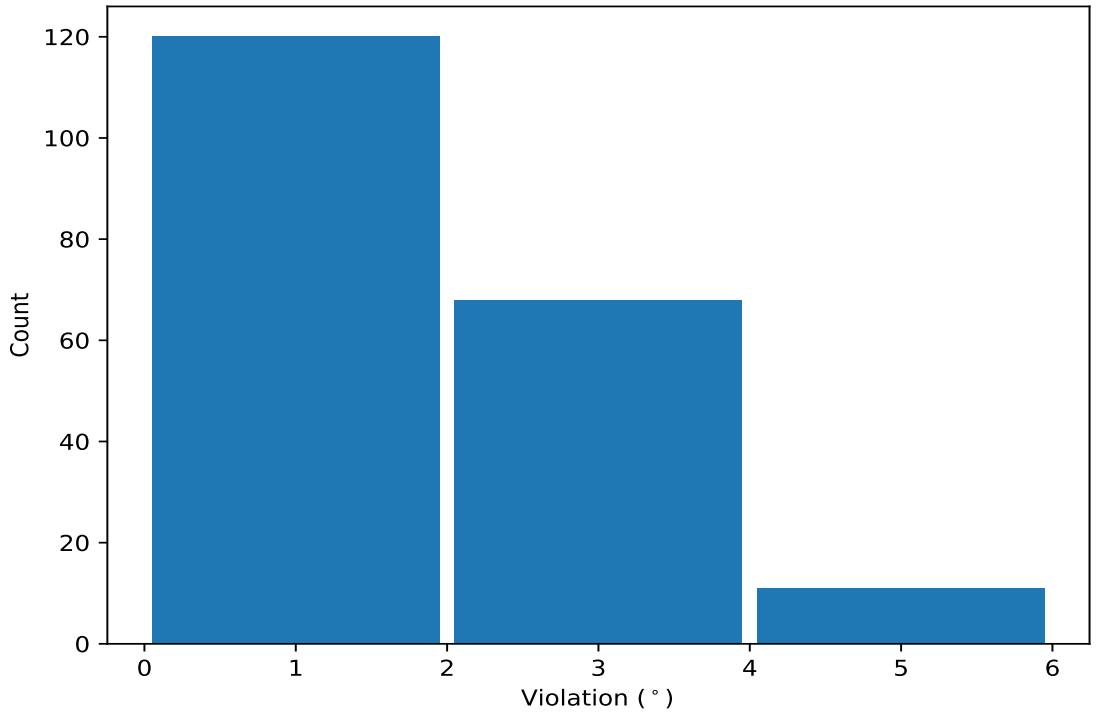
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,17)	1:41:A:GLN:C	1:42:A:GLU:N	1:42:A:GLU:CA	1:42:A:GLU:C	6	1.65	0.28	1.61
(1,56)	1:85:A:GLY:C	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	6	1.61	0.22	1.54
(1,132)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:ILE:N	6	1.49	0.4	1.39
(1,217)	1:146:A:SER:N	1:146:A:SER:CA	1:146:A:SER:C	1:147:A:SER:N	6	1.43	0.33	1.33
(1,92)	1:130:A:PHE:C	1:131:A:LEU:N	1:131:A:LEU:CA	1:131:A:LEU:C	6	1.24	0.16	1.28
(1,55)	1:81:A:LYS:C	1:82:A:GLN:N	1:82:A:GLN:CA	1:82:A:GLN:C	5	1.69	0.5	1.9
(1,39)	1:65:A:SER:C	1:66:A:ILE:N	1:66:A:ILE:CA	1:66:A:ILE:C	4	1.69	0.61	1.4
(1,168)	1:81:A:LYS:N	1:81:A:LYS:CA	1:81:A:LYS:C	1:82:A:GLN:N	4	1.65	0.3	1.76
(1,173)	1:89:A:ILE:N	1:89:A:ILE:CA	1:89:A:ILE:C	1:90:A:LEU:N	4	1.55	0.74	1.15
(1,87)	1:122:A:GLU:C	1:123:A:ASP:N	1:123:A:ASP:CA	1:123:A:ASP:C	3	1.56	0.15	1.61
(1,27)	1:51:A:ASP:C	1:52:A:VAL:N	1:52:A:VAL:CA	1:52:A:VAL:C	3	1.31	0.2	1.3
(1,169)	1:82:A:GLN:N	1:82:A:GLN:CA	1:82:A:GLN:C	1:83:A:TRP:N	3	1.17	0.11	1.14
(1,192)	1:110:A:MET:N	1:110:A:MET:CA	1:110:A:MET:C	1:111:A:THR:N	3	1.17	0.06	1.18
(1,211)	1:136:A:GLY:N	1:136:A:GLY:CA	1:136:A:GLY:C	1:137:A:GLU:N	3	1.17	0.04	1.14
(1,86)	1:118:A:GLN:C	1:119:A:ASP:N	1:119:A:ASP:CA	1:119:A:ASP:C	2	1.74	0.03	1.74
(1,104)	1:146:A:SER:C	1:147:A:SER:N	1:147:A:SER:CA	1:147:A:SER:C	2	1.34	0.13	1.34
(1,50)	1:76:A:LEU:C	1:77:A:ASP:N	1:77:A:ASP:CA	1:77:A:ASP:C	2	1.21	0.02	1.21
(1,218)	1:147:A:SER:N	1:147:A:SER:CA	1:147:A:SER:C	1:148:A:VAL:N	2	1.16	0.03	1.16

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

10.5 All violated dihedral-angle restraints (i)

10.5.1 Histogram : Distribution of violations (i)

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,204)	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	1:130:A:PHE:N	2	4.78
(1,204)	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	1:130:A:PHE:N	8	4.75
(1,204)	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	1:130:A:PHE:N	9	4.69
(1,204)	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	1:130:A:PHE:N	5	4.57
(1,204)	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	1:130:A:PHE:N	6	4.56
(1,204)	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	1:130:A:PHE:N	7	4.53
(1,204)	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	1:130:A:PHE:N	1	4.5
(1,204)	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	1:130:A:PHE:N	3	4.44
(1,204)	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	1:130:A:PHE:N	10	4.44
(1,130)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLU:N	10	4.37
(1,204)	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	1:130:A:PHE:N	4	4.16
(1,130)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLU:N	7	3.99
(1,106)	1:148:A:VAL:C	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	4	3.96
(1,130)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLU:N	1	3.9
(1,130)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLU:N	9	3.82
(1,130)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLU:N	6	3.81
(1,90)	1:128:A:CYS:C	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	1	3.73
(1,130)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLU:N	3	3.71
(1,130)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLU:N	4	3.68
(1,130)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLU:N	2	3.67
(1,106)	1:148:A:VAL:C	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	7	3.65

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,130)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLU:N	8	3.64
(1,106)	1:148:A:VAL:C	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	9	3.61
(1,130)	1:41:A:GLN:N	1:41:A:GLN:CA	1:41:A:GLN:C	1:42:A:GLU:N	5	3.57
(1,133)	1:44:A:ILE:N	1:44:A:ILE:CA	1:44:A:ILE:C	1:45:A:LYS:N	10	3.49
(1,90)	1:128:A:CYS:C	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	10	3.42
(1,90)	1:128:A:CYS:C	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	4	3.4
(1,133)	1:44:A:ILE:N	1:44:A:ILE:CA	1:44:A:ILE:C	1:45:A:LYS:N	8	3.38
(1,90)	1:128:A:CYS:C	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	5	3.25
(1,90)	1:128:A:CYS:C	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	6	3.23
(1,106)	1:148:A:VAL:C	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	1	3.18
(1,133)	1:44:A:ILE:N	1:44:A:ILE:CA	1:44:A:ILE:C	1:45:A:LYS:N	2	3.16
(1,133)	1:44:A:ILE:N	1:44:A:ILE:CA	1:44:A:ILE:C	1:45:A:LYS:N	9	3.15
(1,90)	1:128:A:CYS:C	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	7	3.13
(1,90)	1:128:A:CYS:C	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	2	3.11
(1,90)	1:128:A:CYS:C	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	9	3.08
(1,106)	1:148:A:VAL:C	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	5	3.07
(1,133)	1:44:A:ILE:N	1:44:A:ILE:CA	1:44:A:ILE:C	1:45:A:LYS:N	6	3.06
(1,133)	1:44:A:ILE:N	1:44:A:ILE:CA	1:44:A:ILE:C	1:45:A:LYS:N	7	3.06
(1,170)	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	1:87:A:ASP:N	1	3.02
(1,106)	1:148:A:VAL:C	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	2	3.01
(1,106)	1:148:A:VAL:C	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	3	3.01
(1,133)	1:44:A:ILE:N	1:44:A:ILE:CA	1:44:A:ILE:C	1:45:A:LYS:N	1	2.95
(1,133)	1:44:A:ILE:N	1:44:A:ILE:CA	1:44:A:ILE:C	1:45:A:LYS:N	5	2.95
(1,133)	1:44:A:ILE:N	1:44:A:ILE:CA	1:44:A:ILE:C	1:45:A:LYS:N	4	2.87
(1,173)	1:89:A:ILE:N	1:89:A:ILE:CA	1:89:A:ILE:C	1:90:A:LEU:N	6	2.83
(1,170)	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	1:87:A:ASP:N	4	2.82
(1,195)	1:114:A:LYS:N	1:114:A:LYS:CA	1:114:A:LYS:C	1:115:A:TRP:N	1	2.8
(1,170)	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	1:87:A:ASP:N	6	2.77
(1,151)	1:62:A:ASP:N	1:62:A:ASP:CA	1:62:A:ASP:C	1:63:A:MET:N	4	2.74
(1,151)	1:62:A:ASP:N	1:62:A:ASP:CA	1:62:A:ASP:C	1:63:A:MET:N	1	2.73
(1,39)	1:65:A:SER:C	1:66:A:ILE:N	1:66:A:ILE:CA	1:66:A:ILE:C	10	2.73
(1,133)	1:44:A:ILE:N	1:44:A:ILE:CA	1:44:A:ILE:C	1:45:A:LYS:N	3	2.72
(1,106)	1:148:A:VAL:C	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	6	2.72
(1,151)	1:62:A:ASP:N	1:62:A:ASP:CA	1:62:A:ASP:C	1:63:A:MET:N	8	2.71
(1,106)	1:148:A:VAL:C	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	10	2.6
(1,151)	1:62:A:ASP:N	1:62:A:ASP:CA	1:62:A:ASP:C	1:63:A:MET:N	5	2.58
(1,195)	1:114:A:LYS:N	1:114:A:LYS:CA	1:114:A:LYS:C	1:115:A:TRP:N	5	2.55
(1,170)	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	1:87:A:ASP:N	7	2.52
(1,195)	1:114:A:LYS:N	1:114:A:LYS:CA	1:114:A:LYS:C	1:115:A:TRP:N	9	2.48
(1,90)	1:128:A:CYS:C	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	3	2.44
(1,151)	1:62:A:ASP:N	1:62:A:ASP:CA	1:62:A:ASP:C	1:63:A:MET:N	2	2.43
(1,55)	1:81:A:LYS:C	1:82:A:GLN:N	1:82:A:GLN:CA	1:82:A:GLN:C	8	2.41
(1,151)	1:62:A:ASP:N	1:62:A:ASP:CA	1:62:A:ASP:C	1:63:A:MET:N	10	2.38
(1,170)	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	1:87:A:ASP:N	9	2.34
(1,151)	1:62:A:ASP:N	1:62:A:ASP:CA	1:62:A:ASP:C	1:63:A:MET:N	7	2.32
(1,151)	1:62:A:ASP:N	1:62:A:ASP:CA	1:62:A:ASP:C	1:63:A:MET:N	6	2.28
(1,170)	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	1:87:A:ASP:N	8	2.27
(1,195)	1:114:A:LYS:N	1:114:A:LYS:CA	1:114:A:LYS:C	1:115:A:TRP:N	4	2.26
(1,195)	1:114:A:LYS:N	1:114:A:LYS:CA	1:114:A:LYS:C	1:115:A:TRP:N	8	2.25
(1,106)	1:148:A:VAL:C	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	8	2.22
(1,100)	1:138:A:TRP:C	1:139:A:LYS:N	1:139:A:LYS:CA	1:139:A:LYS:C	5	2.18

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,217)	1:146:A:SER:N	1:146:A:SER:CA	1:146:A:SER:C	1:147:A:SER:N	4	2.17
(1,170)	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	1:87:A:ASP:N	3	2.16
(1,90)	1:128:A:CYS:C	1:129:A:ALA:N	1:129:A:ALA:CA	1:129:A:ALA:C	8	2.15
(1,200)	1:119:A:ASP:N	1:119:A:ASP:CA	1:119:A:ASP:C	1:120:A:ASP:N	4	2.14
(1,132)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:ILE:N	9	2.1
(1,170)	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	1:87:A:ASP:N	2	2.07
(1,17)	1:41:A:GLN:C	1:42:A:GLU:N	1:42:A:GLU:CA	1:42:A:GLU:C	4	2.06
(1,150)	1:61:A:ALA:N	1:61:A:ALA:CA	1:61:A:ALA:C	1:62:A:ASP:N	4	1.97
(1,61)	1:90:A:LEU:C	1:91:A:LEU:N	1:91:A:LEU:CA	1:91:A:LEU:C	5	1.97
(1,170)	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	1:87:A:ASP:N	5	1.94
(1,132)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:ILE:N	4	1.94
(1,17)	1:41:A:GLN:C	1:42:A:GLU:N	1:42:A:GLU:CA	1:42:A:GLU:C	2	1.94
(1,195)	1:114:A:LYS:N	1:114:A:LYS:CA	1:114:A:LYS:C	1:115:A:TRP:N	6	1.92
(1,168)	1:81:A:LYS:N	1:81:A:LYS:CA	1:81:A:LYS:C	1:82:A:GLN:N	5	1.92
(1,56)	1:85:A:GLY:C	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	9	1.92
(1,55)	1:81:A:LYS:C	1:82:A:GLN:N	1:82:A:GLN:CA	1:82:A:GLN:C	2	1.91
(1,55)	1:81:A:LYS:C	1:82:A:GLN:N	1:82:A:GLN:CA	1:82:A:GLN:C	6	1.9
(1,100)	1:138:A:TRP:C	1:139:A:LYS:N	1:139:A:LYS:CA	1:139:A:LYS:C	4	1.88
(1,195)	1:114:A:LYS:N	1:114:A:LYS:CA	1:114:A:LYS:C	1:115:A:TRP:N	2	1.87
(1,168)	1:81:A:LYS:N	1:81:A:LYS:CA	1:81:A:LYS:C	1:82:A:GLN:N	3	1.87
(1,56)	1:85:A:GLY:C	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	2	1.86
(1,195)	1:114:A:LYS:N	1:114:A:LYS:CA	1:114:A:LYS:C	1:115:A:TRP:N	3	1.85
(1,61)	1:90:A:LEU:C	1:91:A:LEU:N	1:91:A:LEU:CA	1:91:A:LEU:C	8	1.85
(1,150)	1:61:A:ALA:N	1:61:A:ALA:CA	1:61:A:ALA:C	1:62:A:ASP:N	1	1.78
(1,86)	1:118:A:GLN:C	1:119:A:ASP:N	1:119:A:ASP:CA	1:119:A:ASP:C	10	1.77
(1,150)	1:61:A:ALA:N	1:61:A:ALA:CA	1:61:A:ALA:C	1:62:A:ASP:N	7	1.74
(1,87)	1:122:A:GLU:C	1:123:A:ASP:N	1:123:A:ASP:CA	1:123:A:ASP:C	8	1.72
(1,86)	1:118:A:GLN:C	1:119:A:ASP:N	1:119:A:ASP:CA	1:119:A:ASP:C	7	1.72
(1,228)	1:157:A:ILE:N	1:157:A:ILE:CA	1:157:A:ILE:C	1:158:A:PRO:N	9	1.7
(1,61)	1:90:A:LEU:C	1:91:A:LEU:N	1:91:A:LEU:CA	1:91:A:LEU:C	1	1.7
(1,195)	1:114:A:LYS:N	1:114:A:LYS:CA	1:114:A:LYS:C	1:115:A:TRP:N	7	1.69
(1,17)	1:41:A:GLN:C	1:42:A:GLU:N	1:42:A:GLU:CA	1:42:A:GLU:C	9	1.69
(1,100)	1:138:A:TRP:C	1:139:A:LYS:N	1:139:A:LYS:CA	1:139:A:LYS:C	3	1.68
(1,168)	1:81:A:LYS:N	1:81:A:LYS:CA	1:81:A:LYS:C	1:82:A:GLN:N	7	1.66
(1,13)	1:37:A:TYR:C	1:38:A:ILE:N	1:38:A:ILE:CA	1:38:A:ILE:C	5	1.65
(1,15)	1:39:A:PHE:C	1:40:A:LEU:N	1:40:A:LEU:CA	1:40:A:LEU:C	7	1.62
(1,87)	1:122:A:GLU:C	1:123:A:ASP:N	1:123:A:ASP:CA	1:123:A:ASP:C	5	1.61
(1,61)	1:90:A:LEU:C	1:91:A:LEU:N	1:91:A:LEU:CA	1:91:A:LEU:C	4	1.58
(1,56)	1:85:A:GLY:C	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	8	1.58
(1,195)	1:114:A:LYS:N	1:114:A:LYS:CA	1:114:A:LYS:C	1:115:A:TRP:N	10	1.57
(1,100)	1:138:A:TRP:C	1:139:A:LYS:N	1:139:A:LYS:CA	1:139:A:LYS:C	9	1.55
(1,27)	1:51:A:ASP:C	1:52:A:VAL:N	1:52:A:VAL:CA	1:52:A:VAL:C	9	1.55
(1,170)	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	1:87:A:ASP:N	10	1.54
(1,100)	1:138:A:TRP:C	1:139:A:LYS:N	1:139:A:LYS:CA	1:139:A:LYS:C	8	1.54
(1,17)	1:41:A:GLN:C	1:42:A:GLU:N	1:42:A:GLU:CA	1:42:A:GLU:C	3	1.53
(1,100)	1:138:A:TRP:C	1:139:A:LYS:N	1:139:A:LYS:CA	1:139:A:LYS:C	7	1.51
(1,56)	1:85:A:GLY:C	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	1	1.5
(1,100)	1:138:A:TRP:C	1:139:A:LYS:N	1:139:A:LYS:CA	1:139:A:LYS:C	1	1.49
(1,39)	1:65:A:SER:C	1:66:A:ILE:N	1:66:A:ILE:CA	1:66:A:ILE:C	2	1.49
(1,13)	1:37:A:TYR:C	1:38:A:ILE:N	1:38:A:ILE:CA	1:38:A:ILE:C	3	1.48
(1,13)	1:37:A:TYR:C	1:38:A:ILE:N	1:38:A:ILE:CA	1:38:A:ILE:C	10	1.48

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,132)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:ILE:N	5	1.47
(1,104)	1:146:A:SER:C	1:147:A:SER:N	1:147:A:SER:CA	1:147:A:SER:C	4	1.47
(1,61)	1:90:A:LEU:C	1:91:A:LEU:N	1:91:A:LEU:CA	1:91:A:LEU:C	7	1.46
(1,56)	1:85:A:GLY:C	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	3	1.46
(1,92)	1:130:A:PHE:C	1:131:A:LEU:N	1:131:A:LEU:CA	1:131:A:LEU:C	6	1.42
(1,13)	1:37:A:TYR:C	1:38:A:ILE:N	1:38:A:ILE:CA	1:38:A:ILE:C	8	1.41
(1,13)	1:37:A:TYR:C	1:38:A:ILE:N	1:38:A:ILE:CA	1:38:A:ILE:C	6	1.39
(1,92)	1:130:A:PHE:C	1:131:A:LEU:N	1:131:A:LEU:CA	1:131:A:LEU:C	8	1.38
(1,13)	1:37:A:TYR:C	1:38:A:ILE:N	1:38:A:ILE:CA	1:38:A:ILE:C	9	1.37
(1,198)	1:117:A:ASP:N	1:117:A:ASP:CA	1:117:A:ASP:C	1:118:A:GLN:N	10	1.36
(1,92)	1:130:A:PHE:C	1:131:A:LEU:N	1:131:A:LEU:CA	1:131:A:LEU:C	5	1.36
(1,87)	1:122:A:GLU:C	1:123:A:ASP:N	1:123:A:ASP:CA	1:123:A:ASP:C	7	1.36
(1,217)	1:146:A:SER:N	1:146:A:SER:CA	1:146:A:SER:C	1:147:A:SER:N	8	1.35
(1,17)	1:41:A:GLN:C	1:42:A:GLU:N	1:42:A:GLU:CA	1:42:A:GLU:C	10	1.35
(1,217)	1:146:A:SER:N	1:146:A:SER:CA	1:146:A:SER:C	1:147:A:SER:N	5	1.34
(1,17)	1:41:A:GLN:C	1:42:A:GLU:N	1:42:A:GLU:CA	1:42:A:GLU:C	7	1.34
(1,217)	1:146:A:SER:N	1:146:A:SER:CA	1:146:A:SER:C	1:147:A:SER:N	3	1.32
(1,56)	1:85:A:GLY:C	1:86:A:PRO:N	1:86:A:PRO:CA	1:86:A:PRO:C	5	1.32
(1,39)	1:65:A:SER:C	1:66:A:ILE:N	1:66:A:ILE:CA	1:66:A:ILE:C	7	1.32
(1,169)	1:82:A:GLN:N	1:82:A:GLN:CA	1:82:A:GLN:C	1:83:A:TRP:N	8	1.31
(1,132)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:ILE:N	10	1.31
(1,27)	1:51:A:ASP:C	1:52:A:VAL:N	1:52:A:VAL:CA	1:52:A:VAL:C	2	1.3
(1,100)	1:138:A:TRP:C	1:139:A:LYS:N	1:139:A:LYS:CA	1:139:A:LYS:C	10	1.29
(1,150)	1:61:A:ALA:N	1:61:A:ALA:CA	1:61:A:ALA:C	1:62:A:ASP:N	8	1.27
(1,189)	1:106:A:ASP:N	1:106:A:ASP:CA	1:106:A:ASP:C	1:107:A:ASN:N	7	1.26
(1,59)	1:88:A:ASP:C	1:89:A:ILE:N	1:89:A:ILE:CA	1:89:A:ILE:C	4	1.26
(1,100)	1:138:A:TRP:C	1:139:A:LYS:N	1:139:A:LYS:CA	1:139:A:LYS:C	2	1.24
(1,15)	1:39:A:PHE:C	1:40:A:LEU:N	1:40:A:LEU:CA	1:40:A:LEU:C	8	1.24
(1,217)	1:146:A:SER:N	1:146:A:SER:CA	1:146:A:SER:C	1:147:A:SER:N	1	1.23
(1,192)	1:110:A:MET:N	1:110:A:MET:CA	1:110:A:MET:C	1:111:A:THR:N	6	1.23
(1,173)	1:89:A:ILE:N	1:89:A:ILE:CA	1:89:A:ILE:C	1:90:A:LEU:N	3	1.23
(1,50)	1:76:A:LEU:C	1:77:A:ASP:N	1:77:A:ASP:CA	1:77:A:ASP:C	2	1.23
(1,211)	1:136:A:GLY:N	1:136:A:GLY:CA	1:136:A:GLY:C	1:137:A:GLU:N	4	1.22
(1,39)	1:65:A:SER:C	1:66:A:ILE:N	1:66:A:ILE:CA	1:66:A:ILE:C	5	1.22
(1,15)	1:39:A:PHE:C	1:40:A:LEU:N	1:40:A:LEU:CA	1:40:A:LEU:C	4	1.22
(1,104)	1:146:A:SER:C	1:147:A:SER:N	1:147:A:SER:CA	1:147:A:SER:C	5	1.21
(1,61)	1:90:A:LEU:C	1:91:A:LEU:N	1:91:A:LEU:CA	1:91:A:LEU:C	2	1.21
(1,92)	1:130:A:PHE:C	1:131:A:LEU:N	1:131:A:LEU:CA	1:131:A:LEU:C	1	1.2
(1,15)	1:39:A:PHE:C	1:40:A:LEU:N	1:40:A:LEU:CA	1:40:A:LEU:C	2	1.2
(1,218)	1:147:A:SER:N	1:147:A:SER:CA	1:147:A:SER:C	1:148:A:VAL:N	5	1.19
(1,217)	1:146:A:SER:N	1:146:A:SER:CA	1:146:A:SER:C	1:147:A:SER:N	10	1.19
(1,151)	1:62:A:ASP:N	1:62:A:ASP:CA	1:62:A:ASP:C	1:63:A:MET:N	3	1.19
(1,150)	1:61:A:ALA:N	1:61:A:ALA:CA	1:61:A:ALA:C	1:62:A:ASP:N	5	1.19
(1,61)	1:90:A:LEU:C	1:91:A:LEU:N	1:91:A:LEU:CA	1:91:A:LEU:C	3	1.19
(1,61)	1:90:A:LEU:C	1:91:A:LEU:N	1:91:A:LEU:CA	1:91:A:LEU:C	6	1.19
(1,50)	1:76:A:LEU:C	1:77:A:ASP:N	1:77:A:ASP:CA	1:77:A:ASP:C	1	1.19
(1,13)	1:37:A:TYR:C	1:38:A:ILE:N	1:38:A:ILE:CA	1:38:A:ILE:C	4	1.19
(1,192)	1:110:A:MET:N	1:110:A:MET:CA	1:110:A:MET:C	1:111:A:THR:N	1	1.18
(1,188)	1:105:A:PHE:N	1:105:A:PHE:CA	1:105:A:PHE:C	1:106:A:ASP:N	3	1.18
(1,134)	1:45:A:LYS:N	1:45:A:LYS:CA	1:45:A:LYS:C	1:46:A:VAL:N	3	1.18
(1,55)	1:81:A:LYS:C	1:82:A:GLN:N	1:82:A:GLN:CA	1:82:A:GLN:C	1	1.17

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,61)	1:90:A:LEU:C	1:91:A:LEU:N	1:91:A:LEU:CA	1:91:A:LEU:C	10	1.16
(1,15)	1:39:A:PHE:C	1:40:A:LEU:N	1:40:A:LEU:CA	1:40:A:LEU:C	1	1.16
(1,168)	1:81:A:LYS:N	1:81:A:LYS:CA	1:81:A:LYS:C	1:82:A:GLN:N	9	1.15
(1,150)	1:61:A:ALA:N	1:61:A:ALA:CA	1:61:A:ALA:C	1:62:A:ASP:N	10	1.15
(1,211)	1:136:A:GLY:N	1:136:A:GLY:CA	1:136:A:GLY:C	1:137:A:GLU:N	2	1.14
(1,211)	1:136:A:GLY:N	1:136:A:GLY:CA	1:136:A:GLY:C	1:137:A:GLU:N	7	1.14
(1,169)	1:82:A:GLN:N	1:82:A:GLN:CA	1:82:A:GLN:C	1:83:A:TRP:N	1	1.14
(1,152)	1:63:A:MET:N	1:63:A:MET:CA	1:63:A:MET:C	1:64:A:ILE:N	1	1.14
(1,220)	1:149:A:GLU:N	1:149:A:GLU:CA	1:149:A:GLU:C	1:150:A:GLY:N	1	1.12
(1,218)	1:147:A:SER:N	1:147:A:SER:CA	1:147:A:SER:C	1:148:A:VAL:N	4	1.12
(1,61)	1:90:A:LEU:C	1:91:A:LEU:N	1:91:A:LEU:CA	1:91:A:LEU:C	9	1.12
(1,192)	1:110:A:MET:N	1:110:A:MET:CA	1:110:A:MET:C	1:111:A:THR:N	5	1.09
(1,132)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:ILE:N	6	1.08
(1,55)	1:81:A:LYS:C	1:82:A:GLN:N	1:82:A:GLN:CA	1:82:A:GLN:C	4	1.08
(1,15)	1:39:A:PHE:C	1:40:A:LEU:N	1:40:A:LEU:CA	1:40:A:LEU:C	10	1.08
(1,173)	1:89:A:ILE:N	1:89:A:ILE:CA	1:89:A:ILE:C	1:90:A:LEU:N	1	1.07
(1,173)	1:89:A:ILE:N	1:89:A:ILE:CA	1:89:A:ILE:C	1:90:A:LEU:N	2	1.07
(1,92)	1:130:A:PHE:C	1:131:A:LEU:N	1:131:A:LEU:CA	1:131:A:LEU:C	9	1.07
(1,27)	1:51:A:ASP:C	1:52:A:VAL:N	1:52:A:VAL:CA	1:52:A:VAL:C	4	1.07
(1,169)	1:82:A:GLN:N	1:82:A:GLN:CA	1:82:A:GLN:C	1:83:A:TRP:N	6	1.05
(1,132)	1:43:A:ALA:N	1:43:A:ALA:CA	1:43:A:ALA:C	1:44:A:ILE:N	2	1.05
(1,66)	1:96:A:ASP:C	1:97:A:THR:N	1:97:A:THR:CA	1:97:A:THR:C	6	1.05
(1,150)	1:61:A:ALA:N	1:61:A:ALA:CA	1:61:A:ALA:C	1:62:A:ASP:N	6	1.04
(1,15)	1:39:A:PHE:C	1:40:A:LEU:N	1:40:A:LEU:CA	1:40:A:LEU:C	5	1.02
(1,92)	1:130:A:PHE:C	1:131:A:LEU:N	1:131:A:LEU:CA	1:131:A:LEU:C	4	1.01