Full wwPDB NMR Structure Validation Report (i)

Mar 8, 2026 – 01:08 AM UTC

PDB ID	:	6IVU / pdb_00006ivu
BMRB ID	:	36221
Title	:	Solution structure of the Sigma-anti-sigma factor complex RsgI1N-SigI1C from Clostridium thermocellum
Authors	:	Wei, Z.; Feng, Y.
Deposited on	:	2018-12-04

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

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

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

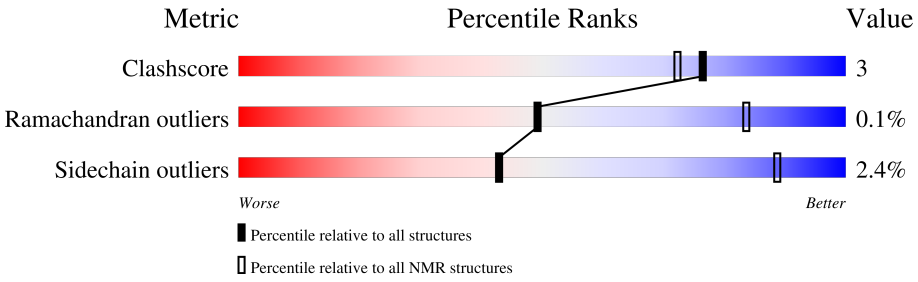
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber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

1 Overall quality at a glance (i)

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

The overall completeness of chemical shifts assignment is 92%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	53	81% • 15%
2	B	118	85% 5% • 9%

2 Ensemble composition and analysis

This entry contains 20 models. Model 16 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	**Residue range (total)**	**Backbone RMSD (Å)**	**Medoid model**
1	A:3-A:47, B:143-B:249 (152)	0.40	16

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. No single-model clusters were found.

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

3 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 2909 atoms, of which 1482 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Anti-sigma-I factor RsgI1.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	53	879	270	448	78	80	3	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	SER	-	expression tag	UNP A3DBH1

- Molecule 2 is a protein called RNA polymerase sigma factor SigI1.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
2	B	118	2030	629	1034	186	174	7	0

There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	140	MET	-	initiating methionine	UNP A3DBH0
B	250	LEU	-	expression tag	UNP A3DBH0
B	251	GLU	-	expression tag	UNP A3DBH0
B	252	HIS	-	expression tag	UNP A3DBH0
B	253	HIS	-	expression tag	UNP A3DBH0
B	254	HIS	-	expression tag	UNP A3DBH0
B	255	HIS	-	expression tag	UNP A3DBH0
B	256	HIS	-	expression tag	UNP A3DBH0
B	257	HIS	-	expression tag	UNP A3DBH0

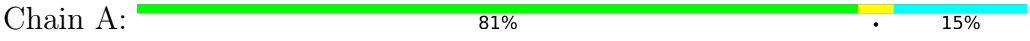
4 Residue-property plots

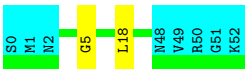
4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

• Molecule 1: Anti-sigma-I factor RsgI1

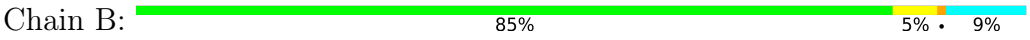
Chain A:





• Molecule 2: RNA polymerase sigma factor SigI1

Chain B:



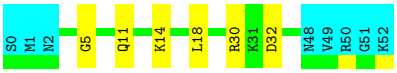
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

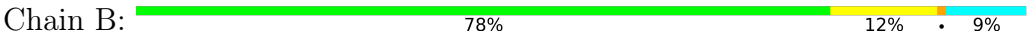
• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



• Molecule 2: RNA polymerase sigma factor SigI1

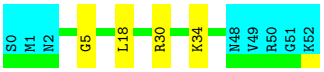
Chain B:



4.2.2 Score per residue for model 2

• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



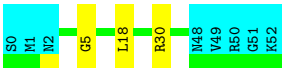
• Molecule 2: RNA polymerase sigma factor SigI1

Chain B:

4.2.3 Score per residue for model 3

• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



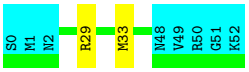
• Molecule 2: RNA polymerase sigma factor SigI1

Chain B:

4.2.4 Score per residue for model 4

• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



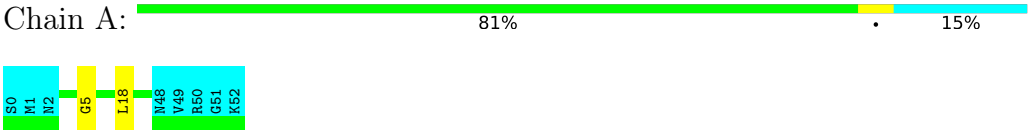
• Molecule 2: RNA polymerase sigma factor SigI1

Chain B:

4.2.5 Score per residue for model 5

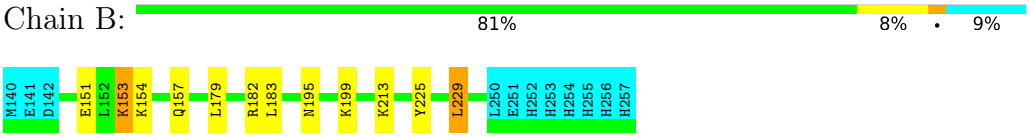
• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



• Molecule 2: RNA polymerase sigma factor SigI1

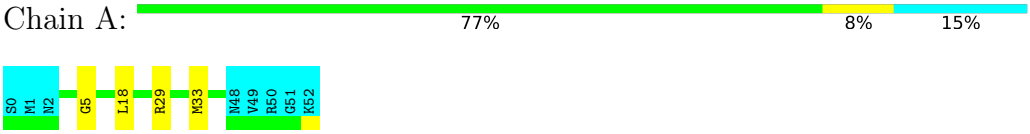
Chain B:



4.2.6 Score per residue for model 6

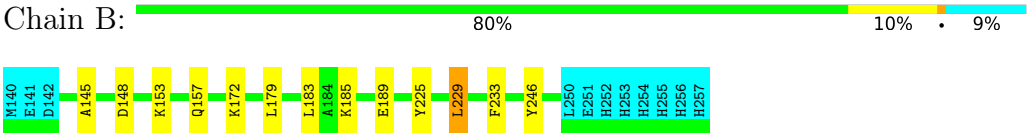
• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



• Molecule 2: RNA polymerase sigma factor SigI1

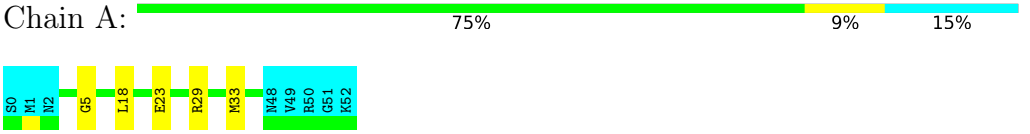
Chain B:



4.2.7 Score per residue for model 7

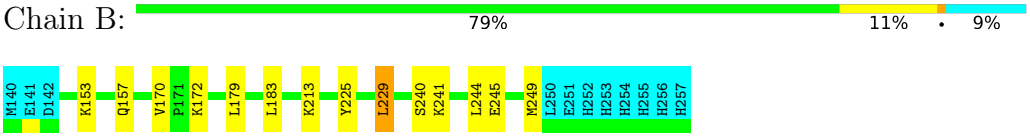
• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



• Molecule 2: RNA polymerase sigma factor SigI1

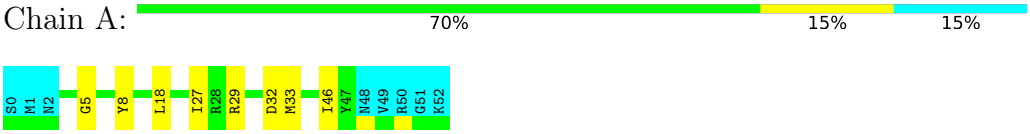
Chain B:



4.2.8 Score per residue for model 8

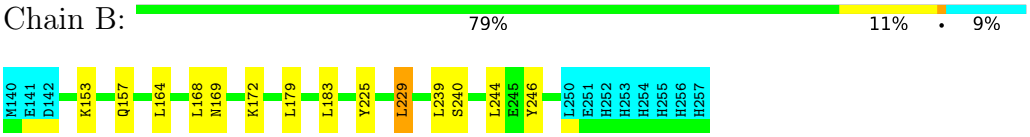
• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



• Molecule 2: RNA polymerase sigma factor SigI1

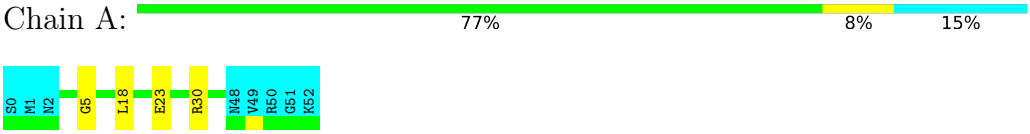
Chain B:



4.2.9 Score per residue for model 9

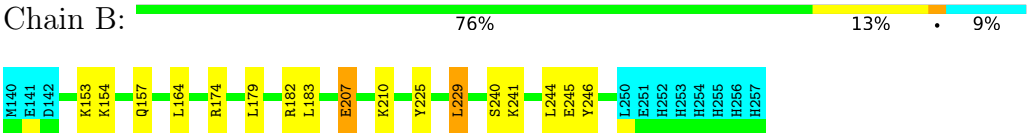
• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



• Molecule 2: RNA polymerase sigma factor SigI1

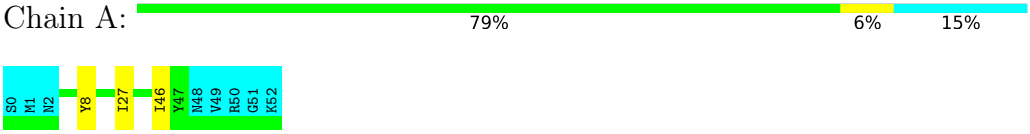
Chain B:



4.2.10 Score per residue for model 10

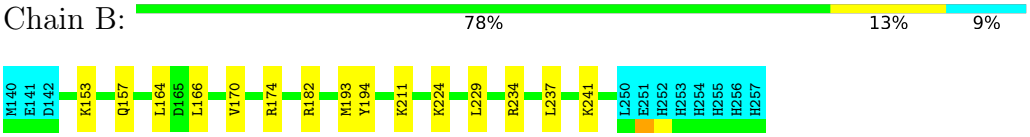
• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



• Molecule 2: RNA polymerase sigma factor SigI1

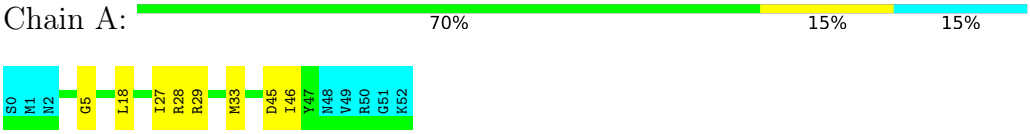
Chain B:



4.2.11 Score per residue for model 11

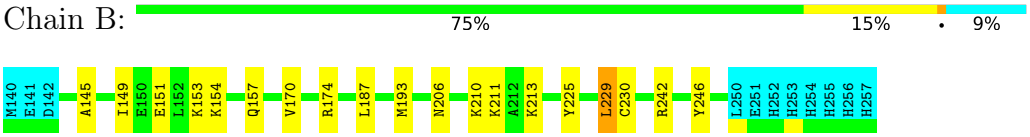
• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



• Molecule 2: RNA polymerase sigma factor SigI1

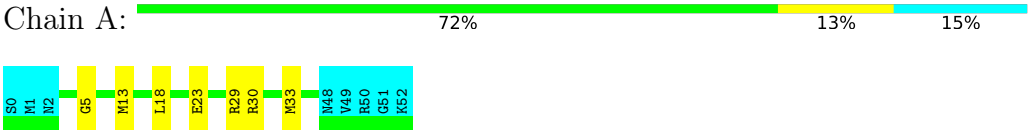
Chain B:



4.2.12 Score per residue for model 12

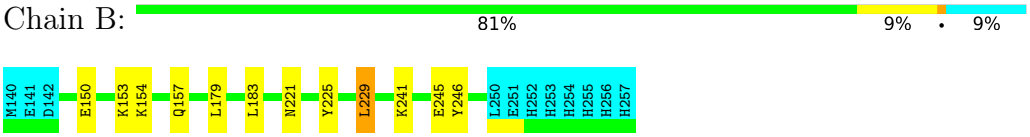
• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



• Molecule 2: RNA polymerase sigma factor SigI1

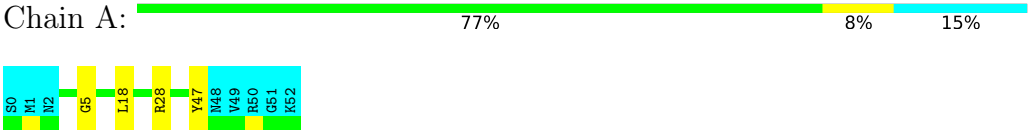
Chain B:



4.2.13 Score per residue for model 13

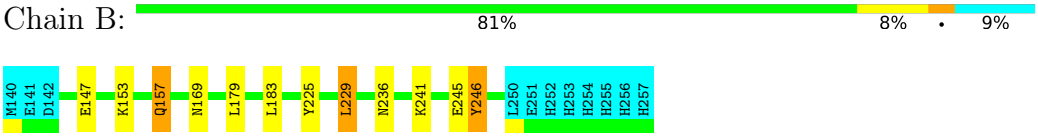
• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



• Molecule 2: RNA polymerase sigma factor SigI1

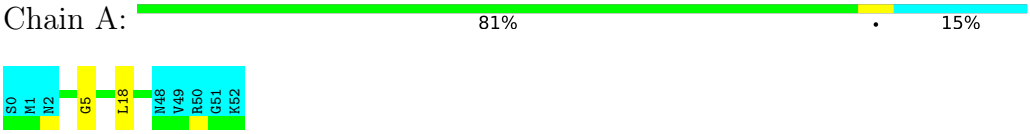
Chain B:



4.2.14 Score per residue for model 14

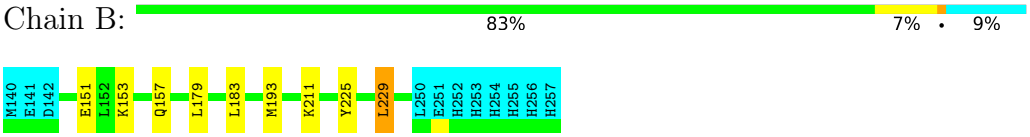
• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



• Molecule 2: RNA polymerase sigma factor SigI1

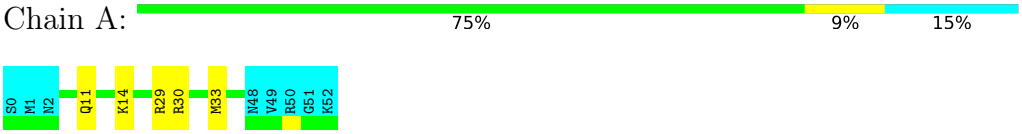
Chain B:



4.2.15 Score per residue for model 15

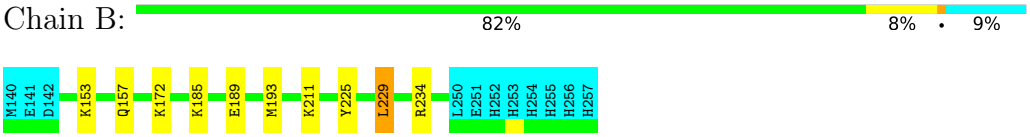
• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



• Molecule 2: RNA polymerase sigma factor SigI1

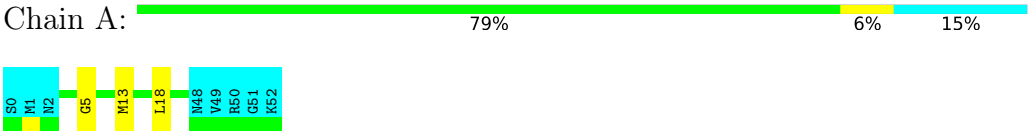
Chain B:



4.2.16 Score per residue for model 16 (medoid)

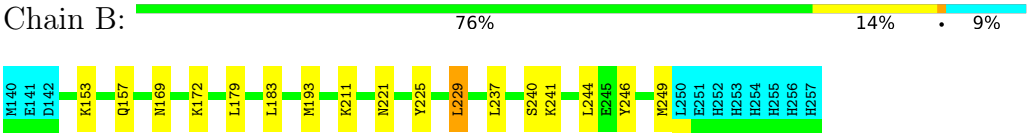
• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



• Molecule 2: RNA polymerase sigma factor SigI1

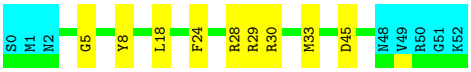
Chain B:



4.2.17 Score per residue for model 17

• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



• Molecule 2: RNA polymerase sigma factor SigI1

Chain B:

4.2.18 Score per residue for model 18

• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:

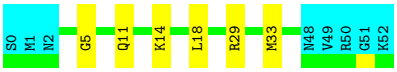
• Molecule 2: RNA polymerase sigma factor SigI1

Chain B:

4.2.19 Score per residue for model 19

• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



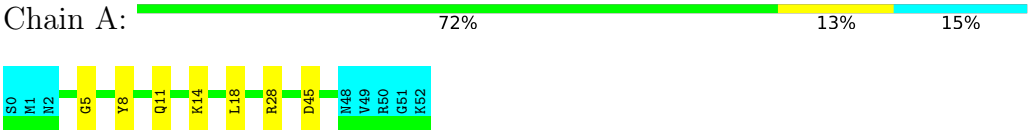
• Molecule 2: RNA polymerase sigma factor SigI1

Chain B:

4.2.20 Score per residue for model 20

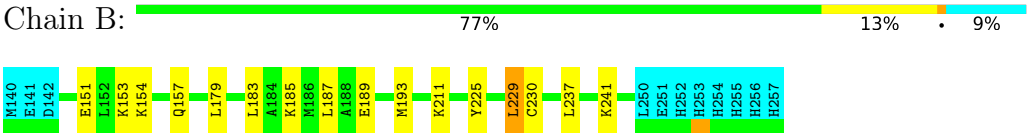
• Molecule 1: Anti-sigma-I factor RsgI1

Chain A:



• Molecule 2: RNA polymerase sigma factor SigI1

Chain B:



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
CNS	refinement	
CNS	structure calculation	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	2245
Number of shifts mapped to atoms	2245
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	92%

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	1.11±0.04	0±0/373 (0.0± 0.0%)	0.92±0.03	0±1/498 (0.0± 0.1%)
2	B	0.95±0.02	0±0/905 (0.0± 0.0%)	1.07±0.03	0±0/1209 (0.0± 0.0%)
All	All	1.00	0/25560 (0.0%)	1.03	6/34140 (0.0%)

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	0.3±0.5
2	B	0.0±0.0	0.4±0.6
All	All	0	14

There are no bond-length outliers.

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

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
2	B	170	VAL	N-CA-C	5.23	113.12	108.63	11	2
1	A	30	ARG	CA-C-N	5.18	127.54	120.54	15	2
1	A	30	ARG	C-N-CA	5.18	127.54	120.54	15	2

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	A	30	ARG	Sidechain	5
2	B	182	ARG	Sidechain	5
2	B	174	ARG	Sidechain	1

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Mol	Chain	Res	Type	Group	Models (Total)
2	B	242	ARG	Sidechain	1
1	A	28	ARG	Sidechain	1
2	B	234	ARG	Sidechain	1

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	369	382	382	2±1
2	B	893	948	946	6±1
All	All	25240	26600	26560	154

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 3.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:150:GLU:O	2:B:154:LYS:HG3	0.59	1.98	1	3
1:A:29:ARG:HA	1:A:33:MET:SD	0.58	2.38	4	9
1:A:5:GLY:HA3	1:A:18:LEU:O	0.56	2.01	1	16
2:B:153:LYS:O	2:B:157:GLN:HG2	0.51	2.05	19	20
2:B:237:LEU:O	2:B:241:LYS:HB2	0.50	2.07	19	4
2:B:225:TYR:O	2:B:229:LEU:HD22	0.50	2.07	6	19
2:B:151:GLU:O	2:B:154:LYS:HG2	0.50	2.07	5	2
1:A:11:GLN:O	1:A:14:LYS:HG2	0.49	2.08	19	4
2:B:219:ILE:O	2:B:223:ARG:HB3	0.49	2.08	18	2
2:B:179:LEU:O	2:B:183:LEU:HG	0.49	2.08	17	16
2:B:185:LYS:O	2:B:189:GLU:HG2	0.48	2.08	15	6
2:B:193:MET:SD	2:B:207:GLU:HB3	0.48	2.49	17	1
1:A:18:LEU:HA	1:A:23:GLU:O	0.48	2.09	7	2
1:A:28:ARG:HD2	1:A:45:ASP:OD1	0.47	2.10	20	2
2:B:187:LEU:HG	2:B:230:CYS:SG	0.47	2.49	11	2
1:A:23:GLU:HA	2:B:225:TYR:OH	0.46	2.10	9	1
1:A:28:ARG:NE	1:A:45:ASP:HA	0.46	2.26	17	1
2:B:241:LYS:O	2:B:245:GLU:HG3	0.46	2.11	9	4
2:B:165:ASP:HB3	2:B:224:LYS:HD3	0.45	1.88	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:174:ARG:HG2	2:B:247:TYR:OH	0.45	2.12	18	1
2:B:240:SER:O	2:B:244:LEU:HG	0.44	2.12	9	5
1:A:27:ILE:HG22	1:A:46:ILE:HA	0.44	1.89	11	3
2:B:151:GLU:OE1	2:B:154:LYS:HE3	0.44	2.12	11	1
2:B:172:LYS:N	2:B:172:LYS:HD2	0.44	2.28	7	4
2:B:145:ALA:HB3	2:B:148:ASP:OD1	0.44	2.13	6	1
1:A:28:ARG:HD2	1:A:45:ASP:OD2	0.44	2.12	11	1
1:A:5:GLY:HA2	1:A:18:LEU:O	0.44	2.13	8	1
2:B:166:LEU:O	2:B:170:VAL:HG23	0.44	2.13	10	1
2:B:193:MET:SD	2:B:211:LYS:HD2	0.43	2.53	18	6
2:B:207:GLU:O	2:B:210:LYS:HG2	0.43	2.13	9	1
2:B:144:GLU:CD	2:B:239:LEU:HB3	0.43	2.38	3	1
2:B:145:ALA:O	2:B:149:ILE:HG12	0.43	2.14	11	1
2:B:193:MET:SD	2:B:211:LYS:HD3	0.43	2.54	20	2
2:B:246:TYR:O	2:B:249:MET:HG2	0.43	2.14	2	2
2:B:164:LEU:O	2:B:168:LEU:HG	0.42	2.14	8	2
2:B:246:TYR:HA	2:B:249:MET:HG3	0.42	1.91	18	1
1:A:24:PHE:O	2:B:170:VAL:HG21	0.41	2.14	17	1
2:B:194:TYR:CE1	2:B:234:ARG:HG3	0.41	2.50	10	1
2:B:195:ASN:O	2:B:199:LYS:HG3	0.40	2.15	5	1
2:B:185:LYS:HG2	2:B:233:PHE:CZ	0.40	2.51	6	1
2:B:206:ASN:O	2:B:210:LYS:HG2	0.40	2.16	11	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	45/53 (85%)	43±1 (96±2%)	2±1 (4±2%)	0±0 (0±0%)	49	83
2	B	107/118 (91%)	104±1 (97±1%)	3±1 (3±1%)	0±0 (0±0%)	49	83
All	All	3040/3420 (89%)	2948 (97%)	89 (3%)	3 (0%)	49	83

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)
2	B	236	ASN	2
1	A	47	TYR	1

6.3.2 Protein sidechains (i)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	40/47 (85%)	40±1 (99±1%)	0±1 (1±1%)	63 94
2	B	98/109 (90%)	95±1 (97±1%)	3±1 (3±1%)	38 86
All	All	2760/3120 (88%)	2694 (98%)	66 (2%)	43 89

All 22 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)
2	B	229	LEU	20
2	B	213	LYS	5
2	B	169	ASN	4
1	A	8	TYR	4
2	B	147	GLU	3
2	B	151	GLU	3
2	B	172	LYS	3
2	B	174	ARG	3
2	B	246	TYR	3
1	A	32	ASP	2
2	B	200	ASN	2
2	B	164	LEU	2
1	A	13	MET	2
2	B	221	ASN	2
1	A	34	LYS	1
2	B	153	LYS	1
2	B	249	MET	1
2	B	154	LYS	1
2	B	207	GLU	1
2	B	224	LYS	1
2	B	157	GLN	1
2	B	209	LYS	1

6.3.3 RNA

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates

There are no oligosaccharides in this entry.

6.6 Ligand geometry

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 92% for the well-defined parts and 88% 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	2245
Number of shifts mapped to atoms	2245
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	2

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	164	-0.57 ± 0.12	Should be checked
$^{13}C_{\beta}$	157	-0.08 ± 0.13	None needed (< 0.5 ppm)
$^{13}C'$	164	-0.27 ± 0.13	None needed (< 0.5 ppm)
^{15}N	157	0.43 ± 0.17	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 92%, i.e. 2098 atoms were assigned a chemical shift out of a possible 2278. 0 out of 25 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	753/763 (99%)	304/309 (98%)	302/304 (99%)	147/150 (98%)
Sidechain	1235/1386 (89%)	838/894 (94%)	372/421 (88%)	25/71 (35%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	110/129 (85%)	55/61 (90%)	55/64 (86%)	0/4 (0%)
Overall	2098/2278 (92%)	1197/1264 (95%)	729/789 (92%)	172/225 (76%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 88%, i.e. 2245 atoms were assigned a chemical shift out of a possible 2549. 0 out of 27 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	813/859 (95%)	328/348 (94%)	328/342 (96%)	157/169 (93%)
Sidechain	1322/1513 (87%)	897/975 (92%)	398/461 (86%)	27/77 (35%)
Aromatic	110/177 (62%)	55/85 (65%)	55/76 (72%)	0/16 (0%)
Overall	2245/2549 (88%)	1280/1408 (91%)	781/879 (89%)	184/262 (70%)

7.1.4 Statistically unusual chemical shifts (i)

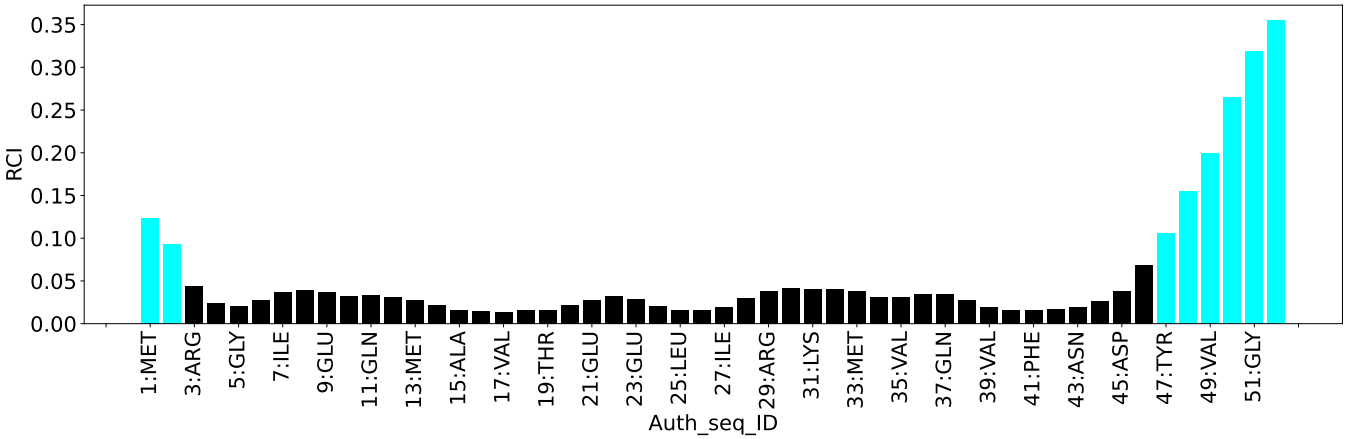
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, *ppm*	Expected range, *ppm*	Z-score
1	A	3	ARG	HB2	0.28	0.52 – 3.08	-5.9
1	B	201	LYS	HD3	0.54	0.54 – 2.65	-5.0

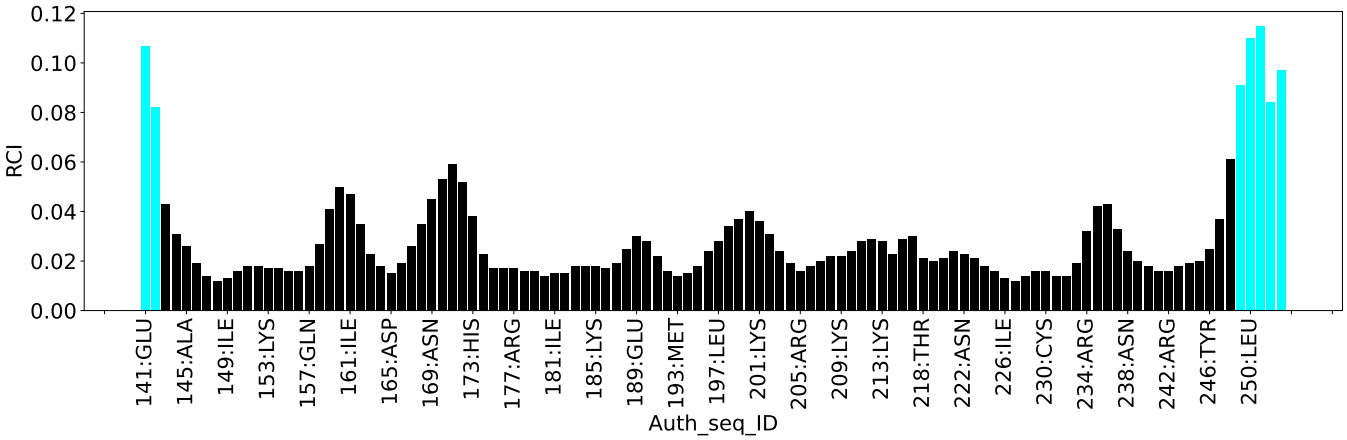
7.1.5 Random Coil Index (RCI) plots (i)

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:



Random coil index (RCI) for chain B:



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	6432
Intra-residue (|i-j|=0)	2067
Sequential (|i-j|=1)	1336
Medium range (|i-j|>1 and |i-j|<5)	1072
Long range (|i-j|≥5)	1468
Inter-chain	329
Hydrogen bond restraints	160
Disulfide bond restraints	0
Total dihedral-angle restraints	369
Number of unmapped restraints	0
Number of restraints per residue	39.8
Number of long range restraints per residue[1]	8.8

[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)	98.5	0.2
0.2-0.5 (Medium)	184.7	0.5
>0.5 (Large)	156.8	1.6

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)	4.6	4.57
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis (i)

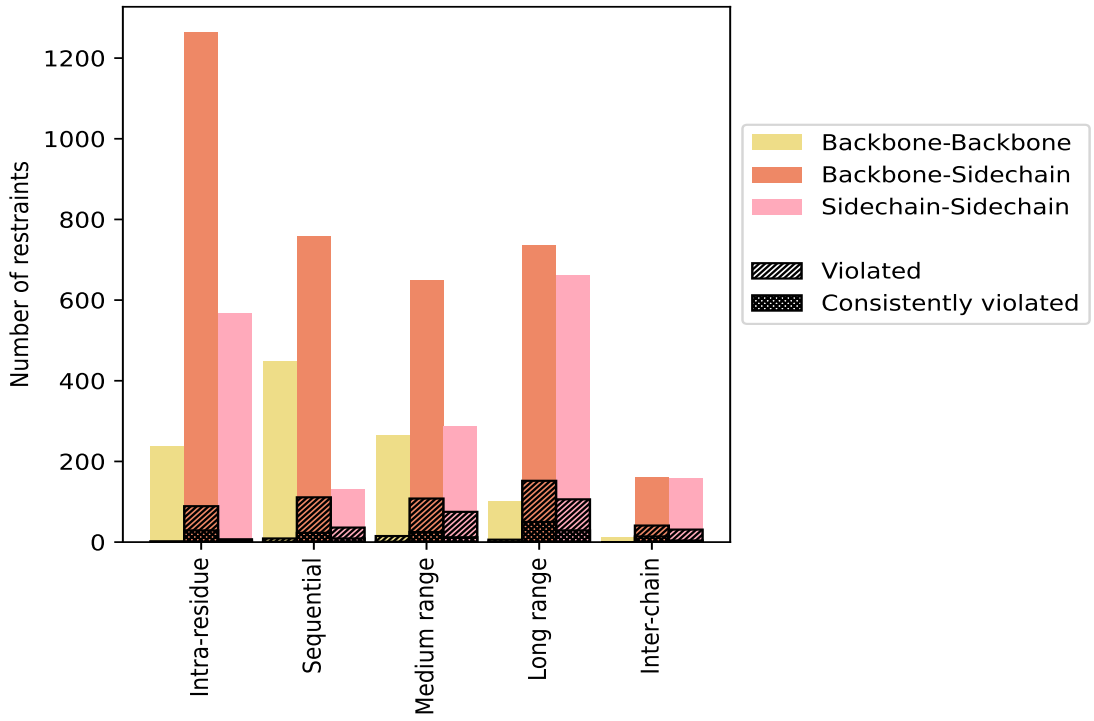
9.1 Summary of distance violations (i)

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)	2067	32.1	98	4.7	1.5	32	1.5	0.5
Backbone-Backbone	237	3.7	2	0.8	0.0	0	0.0	0.0
Backbone-Sidechain	1264	19.7	89	7.0	1.4	29	2.3	0.5
Sidechain-Sidechain	566	8.8	7	1.2	0.1	3	0.5	0.0
Sequential (|i-j|=1)	1336	20.8	156	11.7	2.4	33	2.5	0.5
Backbone-Backbone	447	6.9	9	2.0	0.1	1	0.2	0.0
Backbone-Sidechain	759	11.8	111	14.6	1.7	23	3.0	0.4
Sidechain-Sidechain	130	2.0	36	27.7	0.6	9	6.9	0.1
Medium range (|i-j|>1 & |i-j|<5)	1072	16.7	198	18.5	3.1	38	3.5	0.6
Backbone-Backbone	264	4.1	15	5.7	0.2	1	0.4	0.0
Backbone-Sidechain	522	8.1	108	20.7	1.7	25	4.8	0.4
Sidechain-Sidechain	286	4.4	75	26.2	1.2	12	4.2	0.2
Long range (|i-j|≥5)	1468	22.8	264	18.0	4.1	80	5.4	1.2
Backbone-Backbone	102	1.6	6	5.9	0.1	1	1.0	0.0
Backbone-Sidechain	704	10.9	152	21.6	2.4	50	7.1	0.8
Sidechain-Sidechain	662	10.3	106	16.0	1.6	29	4.4	0.5
Inter-chain	329	5.1	72	21.9	1.1	18	5.5	0.3
Backbone-Backbone	12	0.2	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	160	2.5	41	25.6	0.6	14	8.8	0.2
Sidechain-Sidechain	157	2.4	31	19.7	0.5	4	2.5	0.1
Hydrogen bond	160	2.5	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	6432	100.0	788	12.3	12.3	201	3.1	3.1
Backbone-Backbone	1062	16.5	32	3.0	0.5	3	0.3	0.0
Backbone-Sidechain	3569	55.5	501	14.0	7.8	141	4.0	2.2
Sidechain-Sidechain	1801	28.0	255	14.2	4.0	57	3.2	0.9

[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	65	91	97	165	33	451	0.44	1.51	0.29	0.36
2	59	86	101	156	30	432	0.46	1.52	0.3	0.37
3	60	90	108	159	34	451	0.44	1.6	0.3	0.36
4	63	86	96	152	40	437	0.45	1.49	0.3	0.36
5	61	81	101	158	41	442	0.45	1.47	0.28	0.38
6	62	86	100	155	42	445	0.45	1.51	0.3	0.34
7	53	86	100	160	33	432	0.46	1.39	0.29	0.38
8	61	95	116	136	38	446	0.44	1.5	0.3	0.34
9	64	85	101	154	41	445	0.44	1.37	0.29	0.37
10	59	90	100	155	40	444	0.46	1.48	0.29	0.38

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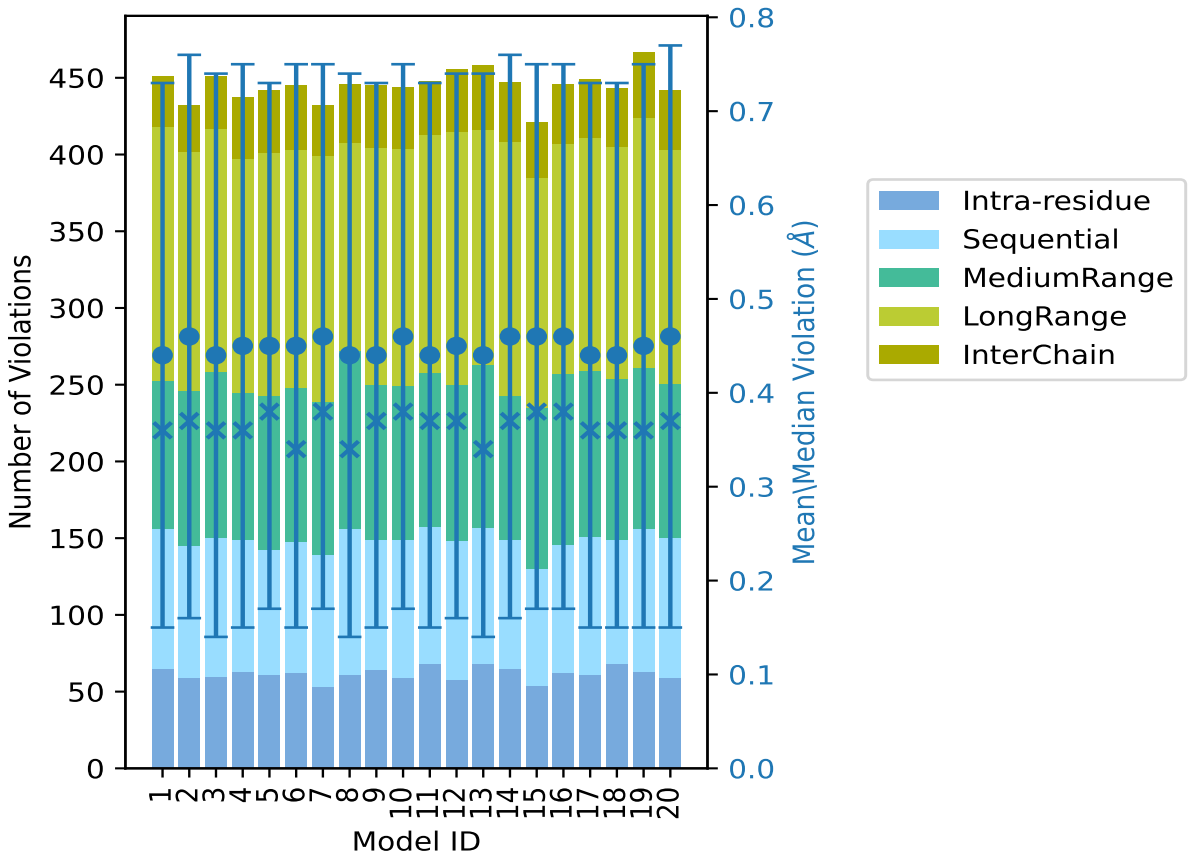
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
11	68	89	101	155	35	448	0.44	1.47	0.29	0.37
12	58	90	102	165	41	456	0.45	1.51	0.29	0.37
13	68	89	106	153	42	458	0.44	1.42	0.3	0.34
14	65	84	94	165	39	447	0.46	1.38	0.3	0.37
15	54	76	105	150	36	421	0.46	1.48	0.29	0.38
16	62	84	111	150	39	446	0.46	1.41	0.29	0.38
17	61	90	108	152	38	449	0.44	1.46	0.29	0.36
18	68	81	105	151	38	443	0.44	1.51	0.29	0.36
19	63	93	105	163	43	467	0.45	1.54	0.3	0.36
20	59	91	101	152	39	442	0.46	1.58	0.31	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



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

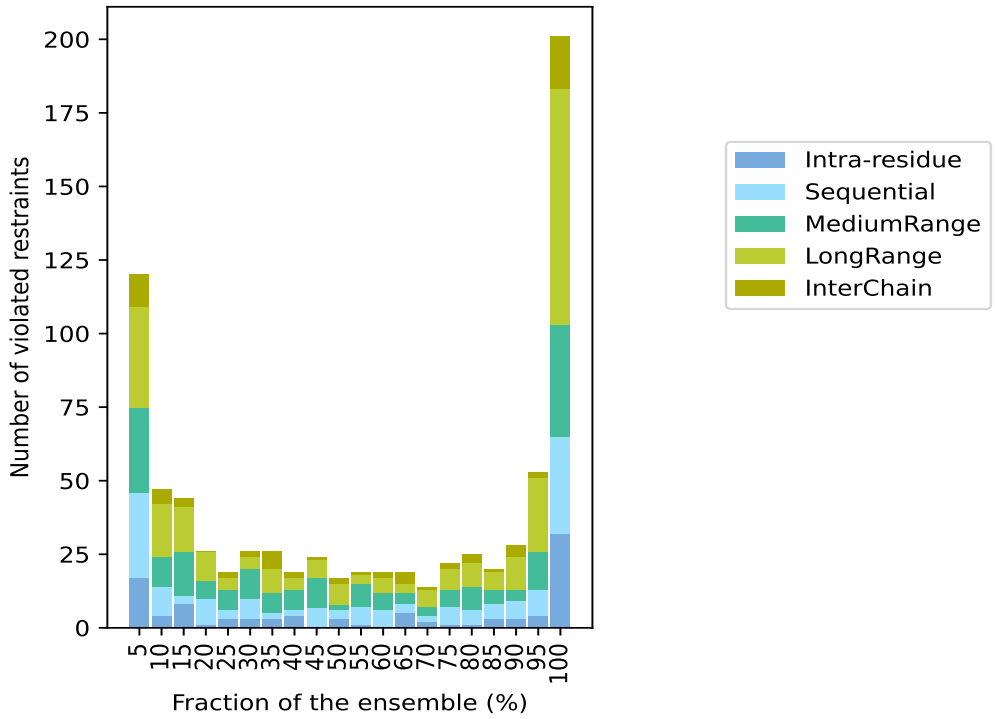
9.3 Distance violation statistics for the ensemble (i)

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, 5484(IR:1969, SQ:1180, MR:874, LR:1204, IC:257) 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]	%
17	29	29	34	11	120	1	5.0
4	10	10	18	5	47	2	10.0
8	3	15	15	3	44	3	15.0
1	9	6	10	0	26	4	20.0
3	3	7	4	2	19	5	25.0
3	7	10	4	2	26	6	30.0
3	2	7	8	6	26	7	35.0
4	2	7	4	2	19	8	40.0
0	7	10	6	1	24	9	45.0
3	3	2	7	2	17	10	50.0
1	6	8	3	1	19	11	55.0
0	6	6	5	2	19	12	60.0
5	3	4	3	4	19	13	65.0
2	2	3	6	1	14	14	70.0
1	6	6	7	2	22	15	75.0
1	5	8	8	3	25	16	80.0
3	5	5	6	1	20	17	85.0
3	6	4	11	4	28	18	90.0
4	9	13	25	2	53	19	95.0
32	33	38	80	18	201	20	100.0

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

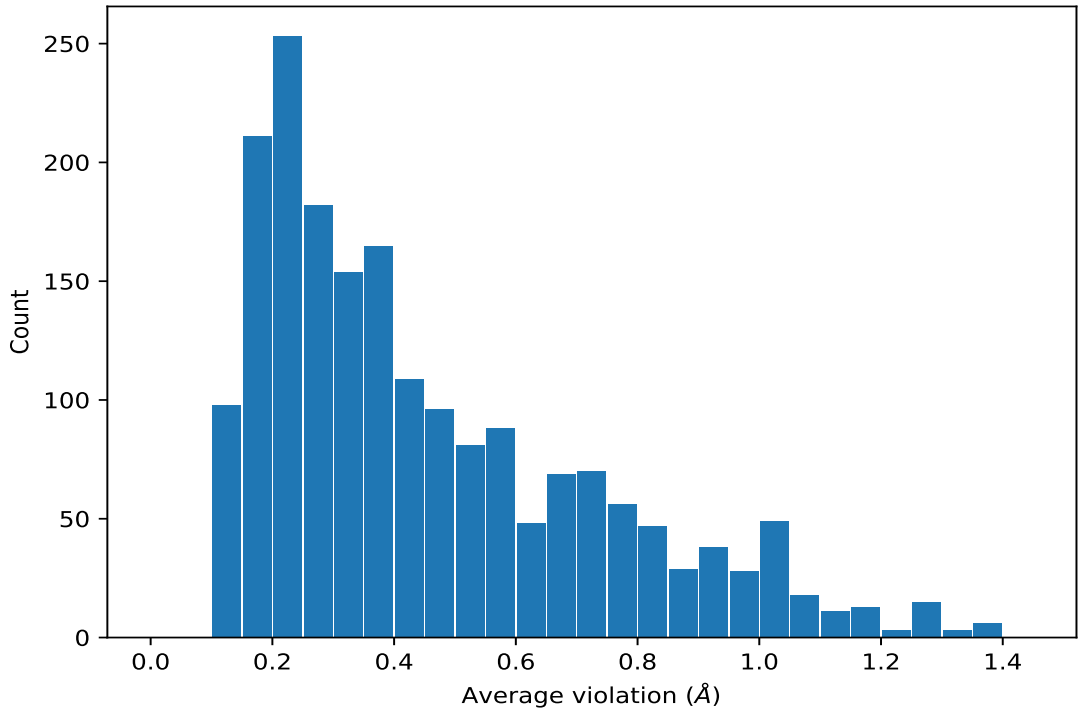
9.3.1 Bar graph : Distance violation statistics for the ensemble



9.4 Most violated distance restraints in the ensemble

9.4.1 Histogram : Distribution of mean distance violations

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



9.4.2 Table: Most violated distance restraints

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

Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4731)	2:246:B:TYR:H	2:250:B:LEU:HD11	20	1.38	0.11	1.41
(1,4731)	1:38:A:GLN:H	2:239:B:LEU:HD11	20	1.38	0.11	1.41
(1,4731)	1:38:A:GLN:H	2:239:B:LEU:HD13	20	1.38	0.11	1.41
(1,4731)	2:246:B:TYR:H	2:250:B:LEU:HD13	20	1.38	0.11	1.41
(1,4731)	2:246:B:TYR:H	2:250:B:LEU:HD12	20	1.38	0.11	1.41
(1,4731)	1:38:A:GLN:H	2:239:B:LEU:HD12	20	1.38	0.11	1.41
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD21	20	1.3	0.13	1.34
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD22	20	1.3	0.13	1.34
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD23	20	1.3	0.13	1.34
(1,3785)	1:16:A:VAL:HG23	1:9:A:GLU:HG3	20	1.28	0.19	1.32
(1,3785)	1:16:A:VAL:HG21	1:9:A:GLU:HG3	20	1.28	0.19	1.32
(1,3785)	1:16:A:VAL:HG22	1:9:A:GLU:HG3	20	1.28	0.19	1.32
(1,3785)	2:149:B:ILE:HG23	1:9:A:GLU:HG3	20	1.28	0.19	1.32
(1,3785)	2:149:B:ILE:HG22	1:9:A:GLU:HG3	20	1.28	0.19	1.32
(1,3785)	2:149:B:ILE:HG21	1:9:A:GLU:HG3	20	1.28	0.19	1.32
(1,3074)	2:239:B:LEU:HD12	2:144:B:GLU:HA	20	1.27	0.13	1.28

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3074)	2:239:B:LEU:HD11	2:144:B:GLU:HA	20	1.27	0.13	1.28
(1,3074)	2:143:B:ILE:HD13	2:144:B:GLU:HA	20	1.27	0.13	1.28
(1,3074)	2:239:B:LEU:HD13	2:144:B:GLU:HA	20	1.27	0.13	1.28
(1,2964)	2:149:B:ILE:HD13	1:37:A:GLN:HA	20	1.26	0.15	1.27
(1,2964)	2:149:B:ILE:HD11	1:37:A:GLN:HA	20	1.26	0.15	1.27
(1,2964)	2:149:B:ILE:HD12	1:37:A:GLN:HA	20	1.26	0.15	1.27
(1,2964)	2:149:B:ILE:HD11	1:9:A:GLU:HA	20	1.26	0.15	1.27
(1,2964)	2:149:B:ILE:HD12	1:9:A:GLU:HA	20	1.26	0.15	1.27
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD21	20	1.22	0.18	1.23
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD22	20	1.22	0.18	1.23
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD23	20	1.22	0.18	1.23
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD13	20	1.18	0.11	1.16
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD12	20	1.18	0.11	1.16
(1,5846)	2:229:B:LEU:HG	1:18:A:LEU:HD11	20	1.18	0.11	1.16
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD11	20	1.18	0.11	1.16
(1,5846)	2:229:B:LEU:HG	1:18:A:LEU:HD12	20	1.18	0.11	1.16
(1,1718)	1:3:A:ARG:HB3	1:19:A:THR:H	20	1.16	0.21	1.2
(1,1718)	2:170:B:VAL:HG22	1:19:A:THR:H	20	1.16	0.21	1.2
(1,1718)	1:25:A:LEU:HD22	1:19:A:THR:H	20	1.16	0.21	1.2
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG22	20	1.15	0.18	1.19
(1,5182)	1:9:A:GLU:H	1:17:A:VAL:HG22	20	1.15	0.18	1.19
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG23	20	1.15	0.18	1.19
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG21	20	1.15	0.18	1.19
(1,5182)	1:9:A:GLU:H	1:17:A:VAL:HG21	20	1.15	0.18	1.19
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD11	20	1.14	0.16	1.15
(1,4743)	2:226:B:ILE:H	2:229:B:LEU:HD11	20	1.14	0.16	1.15
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD13	20	1.14	0.16	1.15
(1,4743)	2:226:B:ILE:H	2:229:B:LEU:HD13	20	1.14	0.16	1.15
(1,4743)	2:226:B:ILE:H	2:229:B:LEU:HD12	20	1.14	0.16	1.15
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD12	20	1.14	0.16	1.15
(1,656)	1:27:A:ILE:HD12	1:39:A:VAL:H	20	1.12	0.21	1.12
(1,656)	1:27:A:ILE:HD11	1:39:A:VAL:H	20	1.12	0.21	1.12
(1,656)	1:6:A:ILE:HD12	1:39:A:VAL:H	20	1.12	0.21	1.12
(1,656)	1:27:A:ILE:HD13	1:39:A:VAL:H	20	1.12	0.21	1.12
(1,656)	1:6:A:ILE:HD13	1:39:A:VAL:H	20	1.12	0.21	1.12
(1,5378)	2:229:B:LEU:HD12	2:184:B:ALA:HB2	20	1.07	0.07	1.08
(1,5378)	2:229:B:LEU:HD11	2:184:B:ALA:HB2	20	1.07	0.07	1.08
(1,5378)	2:229:B:LEU:HD13	2:184:B:ALA:HB3	20	1.07	0.07	1.08
(1,5378)	2:229:B:LEU:HD11	2:184:B:ALA:HB1	20	1.07	0.07	1.08
(1,5378)	2:229:B:LEU:HD13	2:184:B:ALA:HB1	20	1.07	0.07	1.08
(1,5378)	2:229:B:LEU:HD12	2:184:B:ALA:HB3	20	1.07	0.07	1.08
(1,5378)	2:229:B:LEU:HD13	2:184:B:ALA:HB2	20	1.07	0.07	1.08

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD22	20	1.07	0.13	1.07
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD23	20	1.07	0.13	1.07
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD21	20	1.07	0.13	1.07
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB2	20	1.07	0.1	1.08
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB1	20	1.07	0.1	1.08
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB3	20	1.07	0.1	1.08
(1,5462)	2:201:B:LYS:H	2:196:B:ALA:HB3	20	1.07	0.1	1.08
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG23	20	1.06	0.14	1.06
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG21	20	1.06	0.14	1.06
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG22	20	1.06	0.14	1.06
(1,5467)	2:224:B:LYS:H	2:161:B:ILE:HG21	20	1.06	0.14	1.06
(1,5475)	2:187:B:LEU:H	2:226:B:ILE:HG22	20	1.03	0.07	1.05
(1,5475)	2:229:B:LEU:H	2:226:B:ILE:HG23	20	1.03	0.07	1.05
(1,5475)	2:229:B:LEU:H	2:226:B:ILE:HG21	20	1.03	0.07	1.05
(1,5475)	2:187:B:LEU:H	2:226:B:ILE:HG21	20	1.03	0.07	1.05
(1,5475)	2:187:B:LEU:H	2:226:B:ILE:HG23	20	1.03	0.07	1.05
(1,5475)	2:229:B:LEU:H	2:226:B:ILE:HG22	20	1.03	0.07	1.05
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG11	20	1.03	0.16	1.0
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG13	20	1.03	0.16	1.0
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG12	20	1.03	0.16	1.0
(1,5451)	1:28:A:ARG:H	1:17:A:VAL:HG23	20	1.03	0.15	1.06
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG21	20	1.03	0.15	1.06
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG23	20	1.03	0.15	1.06
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG22	20	1.03	0.15	1.06
(1,5451)	1:28:A:ARG:H	1:17:A:VAL:HG22	20	1.03	0.15	1.06
(1,5451)	1:28:A:ARG:H	1:17:A:VAL:HG21	20	1.03	0.15	1.06
(1,1144)	2:161:B:ILE:HD11	2:157:B:GLN:H	20	1.02	0.15	1.05
(1,1144)	2:149:B:ILE:HG23	2:154:B:LYS:H	20	1.02	0.15	1.05
(1,1144)	2:161:B:ILE:HD13	2:157:B:GLN:H	20	1.02	0.15	1.05
(1,1144)	2:149:B:ILE:HG21	2:154:B:LYS:H	20	1.02	0.15	1.05
(1,1144)	2:161:B:ILE:HD12	2:157:B:GLN:H	20	1.02	0.15	1.05
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD11	20	1.02	0.1	1.04
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD13	20	1.02	0.1	1.04
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD12	20	1.02	0.1	1.04
(1,2372)	2:229:B:LEU:HD23	2:181:B:ILE:HD11	20	1.01	0.12	1.04
(1,2372)	2:229:B:LEU:HD21	2:181:B:ILE:HD12	20	1.01	0.12	1.04
(1,2372)	2:229:B:LEU:HD21	2:181:B:ILE:HD13	20	1.01	0.12	1.04
(1,2372)	2:244:B:LEU:HD11	2:181:B:ILE:HD12	20	1.01	0.12	1.04
(1,2372)	2:229:B:LEU:HD23	2:181:B:ILE:HD13	20	1.01	0.12	1.04
(1,2372)	2:229:B:LEU:HD22	2:181:B:ILE:HD13	20	1.01	0.12	1.04
(1,2372)	2:244:B:LEU:HD13	2:181:B:ILE:HD12	20	1.01	0.12	1.04
(1,2372)	2:229:B:LEU:HD22	2:181:B:ILE:HD12	20	1.01	0.12	1.04

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2372)	2:244:B:LEU:HD13	2:181:B:ILE:HD13	20	1.01	0.12	1.04
(1,2372)	2:244:B:LEU:HD12	2:181:B:ILE:HD13	20	1.01	0.12	1.04
(1,2372)	2:244:B:LEU:HD12	2:181:B:ILE:HD12	20	1.01	0.12	1.04
(1,2372)	2:229:B:LEU:HD23	2:181:B:ILE:HD12	20	1.01	0.12	1.04
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	20	1.01	0.21	1.02
(1,1175)	2:227:B:ILE:HD12	2:223:B:ARG:H	20	1.01	0.21	1.02
(1,3453)	2:166:B:LEU:HB3	2:169:B:ASN:HB2	20	1.0	0.17	1.06
(1,3453)	2:241:B:LYS:HG2	2:185:B:LYS:HE2	20	1.0	0.17	1.06
(1,3453)	2:224:B:LYS:HB3	2:169:B:ASN:HB2	20	1.0	0.17	1.06
(1,3453)	2:185:B:LYS:HB2	2:185:B:LYS:HE3	20	1.0	0.17	1.06
(1,3453)	2:241:B:LYS:HG3	2:185:B:LYS:HE2	20	1.0	0.17	1.06
(1,4006)	1:7:A:ILE:HG23	1:37:A:GLN:HG3	20	1.0	0.17	1.0
(1,4006)	1:7:A:ILE:HG21	1:37:A:GLN:HG3	20	1.0	0.17	1.0
(1,4006)	1:6:A:ILE:HG21	1:37:A:GLN:HG3	20	1.0	0.17	1.0
(1,4006)	1:7:A:ILE:HG22	1:37:A:GLN:HG3	20	1.0	0.17	1.0
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD13	20	1.0	0.13	0.99
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD11	20	1.0	0.13	0.99
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD12	20	1.0	0.13	0.99
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD11	20	0.99	0.1	0.98
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD13	20	0.99	0.1	0.98
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD12	20	0.99	0.1	0.98
(1,4663)	2:244:B:LEU:HD21	2:229:B:LEU:HD23	20	0.98	0.11	0.99
(1,4663)	2:244:B:LEU:HD21	2:229:B:LEU:HD21	20	0.98	0.11	0.99
(1,4663)	2:244:B:LEU:HD22	2:229:B:LEU:HD21	20	0.98	0.11	0.99
(1,4663)	2:244:B:LEU:HD23	2:229:B:LEU:HD22	20	0.98	0.11	0.99
(1,4663)	2:226:B:ILE:HG23	2:229:B:LEU:HD22	20	0.98	0.11	0.99
(1,4663)	2:244:B:LEU:HD22	2:229:B:LEU:HD22	20	0.98	0.11	0.99
(1,4663)	2:226:B:ILE:HG21	2:229:B:LEU:HD23	20	0.98	0.11	0.99
(1,4663)	2:226:B:ILE:HG23	2:229:B:LEU:HD23	20	0.98	0.11	0.99
(1,4663)	2:226:B:ILE:HG21	2:229:B:LEU:HD22	20	0.98	0.11	0.99
(1,4663)	2:226:B:ILE:HG22	2:229:B:LEU:HD21	20	0.98	0.11	0.99
(1,4663)	2:244:B:LEU:HD22	2:229:B:LEU:HD23	20	0.98	0.11	0.99
(1,4663)	2:226:B:ILE:HG22	2:229:B:LEU:HD23	20	0.98	0.11	0.99
(1,4663)	2:226:B:ILE:HG22	2:229:B:LEU:HD22	20	0.98	0.11	0.99
(1,4663)	2:244:B:LEU:HD23	2:229:B:LEU:HD23	20	0.98	0.11	0.99
(1,4663)	2:244:B:LEU:HD23	2:229:B:LEU:HD21	20	0.98	0.11	0.99
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD23	20	0.97	0.26	0.98
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD21	20	0.97	0.26	0.98
(1,4922)	2:219:B:ILE:HA	2:208:B:LEU:HD12	20	0.97	0.26	0.98
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD22	20	0.97	0.26	0.98
(1,4922)	2:219:B:ILE:HA	2:208:B:LEU:HD13	20	0.97	0.26	0.98
(1,4922)	2:219:B:ILE:HA	2:208:B:LEU:HD11	20	0.97	0.26	0.98

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD12	20	0.94	0.04	0.94
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD13	20	0.94	0.04	0.94
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD11	20	0.94	0.04	0.94
(1,2721)	1:4:A:LEU:HD13	1:20:A:SER:HA	20	0.94	0.29	1.01
(1,2721)	1:4:A:LEU:HD23	1:20:A:SER:HA	20	0.94	0.29	1.01
(1,2721)	1:4:A:LEU:HD21	1:20:A:SER:HA	20	0.94	0.29	1.01
(1,2721)	1:4:A:LEU:HD22	1:20:A:SER:HA	20	0.94	0.29	1.01
(1,2721)	2:244:B:LEU:HD23	1:20:A:SER:HA	20	0.94	0.29	1.01
(1,2721)	2:244:B:LEU:HD22	1:20:A:SER:HA	20	0.94	0.29	1.01
(1,2721)	1:4:A:LEU:HD12	1:20:A:SER:HA	20	0.94	0.29	1.01
(1,2721)	2:244:B:LEU:HD21	1:20:A:SER:HA	20	0.94	0.29	1.01
(1,2721)	1:4:A:LEU:HD11	1:20:A:SER:HA	20	0.94	0.29	1.01
(1,946)	2:171:B:PRO:HD2	2:181:B:ILE:H	20	0.93	0.21	0.88
(1,946)	2:182:B:ARG:HD2	2:181:B:ILE:H	20	0.93	0.21	0.88
(1,946)	2:182:B:ARG:HD3	2:181:B:ILE:H	20	0.93	0.21	0.88
(1,1528)	1:25:A:LEU:HD13	1:21:A:GLU:H	20	0.93	0.12	0.96
(1,1528)	1:25:A:LEU:HD12	1:21:A:GLU:H	20	0.93	0.12	0.96
(1,1528)	2:244:B:LEU:HD23	1:21:A:GLU:H	20	0.93	0.12	0.96
(1,1528)	1:25:A:LEU:HD11	1:21:A:GLU:H	20	0.93	0.12	0.96
(1,1528)	2:244:B:LEU:HD22	1:21:A:GLU:H	20	0.93	0.12	0.96
(1,1528)	2:244:B:LEU:HD21	1:21:A:GLU:H	20	0.93	0.12	0.96
(1,1155)	2:203:B:ILE:HD13	2:225:B:TYR:H	20	0.92	0.15	0.91
(1,1155)	2:203:B:ILE:HD11	2:225:B:TYR:H	20	0.92	0.15	0.91
(1,1155)	2:203:B:ILE:HD12	2:225:B:TYR:H	20	0.92	0.15	0.91
(1,1155)	2:226:B:ILE:HD13	2:225:B:TYR:H	20	0.92	0.15	0.91
(1,2362)	2:237:B:LEU:HD13	2:232:B:ILE:HA	20	0.91	0.1	0.92
(1,2362)	2:231:B:LEU:HD22	2:232:B:ILE:HA	20	0.91	0.1	0.92
(1,2362)	2:231:B:LEU:HD21	2:232:B:ILE:HA	20	0.91	0.1	0.92
(1,2362)	2:237:B:LEU:HD12	2:232:B:ILE:HA	20	0.91	0.1	0.92
(1,2362)	2:237:B:LEU:HD11	2:232:B:ILE:HA	20	0.91	0.1	0.92
(1,2362)	2:231:B:LEU:HD23	2:232:B:ILE:HA	20	0.91	0.1	0.92
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	20	0.9	0.15	0.9
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG22	20	0.9	0.06	0.9
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG21	20	0.9	0.06	0.9
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG23	20	0.9	0.06	0.9
(1,5669)	2:181:B:ILE:HD13	2:248:B:THR:HB	20	0.9	0.07	0.92
(1,5669)	2:181:B:ILE:HD11	2:248:B:THR:HB	20	0.9	0.07	0.92
(1,5669)	2:181:B:ILE:HD12	2:248:B:THR:HB	20	0.9	0.07	0.92
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG11	20	0.89	0.18	0.87
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG12	20	0.89	0.18	0.87
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG13	20	0.89	0.18	0.87
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG11	20	0.87	0.11	0.9

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG12	20	0.87	0.11	0.9
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG13	20	0.87	0.11	0.9
(1,5243)	1:33:A:MET:HA	1:17:A:VAL:HG12	20	0.87	0.11	0.9
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD12	20	0.87	0.13	0.84
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD11	20	0.87	0.13	0.84
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD13	20	0.87	0.13	0.84
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD11	20	0.85	0.21	0.8
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD12	20	0.85	0.21	0.8
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD13	20	0.85	0.21	0.8
(1,4956)	2:190:B:ASP:HB3	2:208:B:LEU:HD12	20	0.85	0.21	0.8
(1,1161)	2:161:B:ILE:HD11	2:161:B:ILE:H	20	0.85	0.06	0.86
(1,1161)	2:161:B:ILE:HG22	2:161:B:ILE:H	20	0.85	0.06	0.86
(1,1161)	2:161:B:ILE:HD13	2:161:B:ILE:H	20	0.85	0.06	0.86
(1,1161)	2:161:B:ILE:HD12	2:161:B:ILE:H	20	0.85	0.06	0.86
(1,1161)	2:161:B:ILE:HG21	2:161:B:ILE:H	20	0.85	0.06	0.86
(1,1161)	2:161:B:ILE:HG23	2:161:B:ILE:H	20	0.85	0.06	0.86
(1,4818)	2:163:B:PHE:HE2	2:152:B:LEU:HD13	20	0.84	0.19	0.86
(1,4818)	2:163:B:PHE:HE2	2:152:B:LEU:HD11	20	0.84	0.19	0.86
(1,4818)	2:163:B:PHE:HE1	2:152:B:LEU:HD13	20	0.84	0.19	0.86
(1,4818)	2:163:B:PHE:HE1	2:152:B:LEU:HD11	20	0.84	0.19	0.86
(1,4818)	2:163:B:PHE:HE2	2:152:B:LEU:HD12	20	0.84	0.19	0.86
(1,4818)	2:163:B:PHE:HE1	2:152:B:LEU:HD12	20	0.84	0.19	0.86
(1,4639)	2:149:B:ILE:HG22	2:150:B:GLU:HB2	20	0.83	0.09	0.82
(1,4639)	2:149:B:ILE:HG23	2:150:B:GLU:HB2	20	0.83	0.09	0.82
(1,4639)	2:214:B:VAL:HG12	2:213:B:LYS:HB3	20	0.83	0.09	0.82
(1,4639)	2:149:B:ILE:HG21	2:150:B:GLU:HB2	20	0.83	0.09	0.82
(1,4639)	1:35:A:VAL:HG12	2:150:B:GLU:HB2	20	0.83	0.09	0.82
(1,4639)	2:214:B:VAL:HG11	2:213:B:LYS:HB3	20	0.83	0.09	0.82
(1,4639)	2:214:B:VAL:HG13	2:213:B:LYS:HB3	20	0.83	0.09	0.82
(1,662)	1:16:A:VAL:HG11	1:16:A:VAL:H	20	0.82	0.11	0.84
(1,662)	1:7:A:ILE:HG22	1:16:A:VAL:H	20	0.82	0.11	0.84
(1,662)	1:7:A:ILE:HG21	1:16:A:VAL:H	20	0.82	0.11	0.84
(1,662)	1:16:A:VAL:HG12	1:16:A:VAL:H	20	0.82	0.11	0.84
(1,662)	1:7:A:ILE:HG23	1:16:A:VAL:H	20	0.82	0.11	0.84
(1,662)	1:16:A:VAL:HG13	1:16:A:VAL:H	20	0.82	0.11	0.84
(1,679)	2:231:B:LEU:HD22	2:158:B:GLU:H	20	0.81	0.16	0.84
(1,679)	2:231:B:LEU:HD21	2:158:B:GLU:H	20	0.81	0.16	0.84
(1,679)	2:231:B:LEU:HD23	2:158:B:GLU:H	20	0.81	0.16	0.84
(1,679)	2:161:B:ILE:HG13	2:158:B:GLU:H	20	0.81	0.16	0.84
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD11	20	0.81	0.02	0.8
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD12	20	0.81	0.02	0.8
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD13	20	0.81	0.02	0.8

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3088)	2:214:B:VAL:HG11	2:212:B:ALA:HA	20	0.8	0.09	0.8
(1,3088)	2:214:B:VAL:HG12	2:212:B:ALA:HA	20	0.8	0.09	0.8
(1,3088)	2:214:B:VAL:HG13	2:212:B:ALA:HA	20	0.8	0.09	0.8
(1,3088)	2:183:B:LEU:HD23	2:212:B:ALA:HA	20	0.8	0.09	0.8
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD13	20	0.8	0.06	0.82
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD11	20	0.8	0.06	0.82
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD12	20	0.8	0.06	0.82
(1,3967)	2:186:B:MET:HG2	2:211:B:LYS:HB2	20	0.8	0.23	0.86
(1,3967)	2:193:B:MET:HG2	2:211:B:LYS:HB2	20	0.8	0.23	0.86
(1,3967)	2:186:B:MET:HG2	2:211:B:LYS:HB3	20	0.8	0.23	0.86
(1,3967)	1:32:A:ASP:HB3	1:31:A:LYS:HB2	20	0.8	0.23	0.86
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG23	20	0.8	0.25	0.79
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG21	20	0.8	0.25	0.79
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG22	20	0.8	0.25	0.79
(1,4265)	2:219:B:ILE:HG22	2:205:B:ARG:HB2	20	0.79	0.12	0.78
(1,4265)	2:219:B:ILE:HG23	2:205:B:ARG:HB2	20	0.79	0.12	0.78
(1,4265)	2:219:B:ILE:HG21	2:205:B:ARG:HB2	20	0.79	0.12	0.78
(1,623)	2:232:B:ILE:HD11	2:233:B:PHE:H	20	0.79	0.04	0.78
(1,623)	2:232:B:ILE:HD12	2:233:B:PHE:H	20	0.79	0.04	0.78
(1,623)	2:232:B:ILE:HD13	2:233:B:PHE:H	20	0.79	0.04	0.78
(1,1834)	2:203:B:ILE:HB	2:202:B:ASN:H	20	0.79	0.14	0.81
(1,1834)	2:199:B:LYS:HB2	2:202:B:ASN:H	20	0.79	0.14	0.81
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD11	20	0.79	0.11	0.76
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD13	20	0.79	0.11	0.76
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD12	20	0.79	0.11	0.76
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	20	0.79	0.17	0.84
(1,3319)	2:246:B:TYR:H	2:185:B:LYS:HE3	20	0.79	0.17	0.84
(1,5633)	2:222:B:ASN:HB3	2:226:B:ILE:HG21	20	0.78	0.11	0.8
(1,5633)	2:186:B:MET:HG2	2:226:B:ILE:HG23	20	0.78	0.11	0.8
(1,5633)	2:186:B:MET:HG2	2:226:B:ILE:HG21	20	0.78	0.11	0.8
(1,5633)	2:180:B:CYS:HB2	2:226:B:ILE:HG23	20	0.78	0.11	0.8
(1,5633)	2:222:B:ASN:HB3	2:226:B:ILE:HG23	20	0.78	0.11	0.8
(1,5633)	2:180:B:CYS:HB2	2:226:B:ILE:HG22	20	0.78	0.11	0.8
(1,5633)	2:186:B:MET:HG2	2:226:B:ILE:HG22	20	0.78	0.11	0.8
(1,5633)	2:180:B:CYS:HB2	2:226:B:ILE:HG21	20	0.78	0.11	0.8
(1,1176)	1:35:A:VAL:HG12	2:148:B:ASP:H	20	0.78	0.14	0.78
(1,1176)	1:35:A:VAL:HG13	2:148:B:ASP:H	20	0.78	0.14	0.78
(1,1176)	1:35:A:VAL:HG11	2:148:B:ASP:H	20	0.78	0.14	0.78
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD11	20	0.77	0.09	0.75
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD13	20	0.77	0.09	0.75
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD12	20	0.77	0.09	0.75
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB3	20	0.75	0.11	0.76

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB2	20	0.75	0.11	0.76
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB1	20	0.75	0.11	0.76
(1,5547)	2:147:B:GLU:HA	2:145:B:ALA:HB2	20	0.75	0.11	0.76
(1,5547)	2:147:B:GLU:HA	2:145:B:ALA:HB3	20	0.75	0.11	0.76
(1,5547)	2:147:B:GLU:HA	2:145:B:ALA:HB1	20	0.75	0.11	0.76
(1,3473)	1:3:A:ARG:HG2	1:2:A:ASN:HB3	20	0.74	0.08	0.72
(1,3473)	1:3:A:ARG:HG3	1:2:A:ASN:HB3	20	0.74	0.08	0.72
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB1	20	0.74	0.1	0.72
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB2	20	0.74	0.1	0.72
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB3	20	0.74	0.1	0.72
(1,5308)	2:186:B:MET:HG2	2:184:B:ALA:HB2	20	0.74	0.1	0.72
(1,5389)	2:149:B:ILE:HD12	1:35:A:VAL:HG12	20	0.74	0.16	0.8
(1,5389)	2:149:B:ILE:HD13	1:35:A:VAL:HG12	20	0.74	0.16	0.8
(1,5389)	2:149:B:ILE:HD13	1:35:A:VAL:HG11	20	0.74	0.16	0.8
(1,5389)	2:149:B:ILE:HD13	1:35:A:VAL:HG13	20	0.74	0.16	0.8
(1,5389)	2:149:B:ILE:HD11	1:35:A:VAL:HG11	20	0.74	0.16	0.8
(1,5389)	2:149:B:ILE:HD12	1:35:A:VAL:HG11	20	0.74	0.16	0.8
(1,5389)	1:17:A:VAL:HG11	1:39:A:VAL:HG23	20	0.74	0.16	0.8
(1,5389)	1:17:A:VAL:HG13	1:39:A:VAL:HG22	20	0.74	0.16	0.8
(1,5389)	1:17:A:VAL:HG11	1:39:A:VAL:HG22	20	0.74	0.16	0.8
(1,5389)	1:17:A:VAL:HG12	1:39:A:VAL:HG21	20	0.74	0.16	0.8
(1,5389)	1:17:A:VAL:HG13	1:39:A:VAL:HG23	20	0.74	0.16	0.8
(1,2031)	1:39:A:VAL:HG23	1:5:A:GLY:H	20	0.73	0.07	0.74
(1,2031)	1:39:A:VAL:HG22	1:5:A:GLY:H	20	0.73	0.07	0.74
(1,2031)	1:39:A:VAL:HG21	1:5:A:GLY:H	20	0.73	0.07	0.74
(1,2302)	2:185:B:LYS:HB2	2:181:B:ILE:HD12	20	0.73	0.21	0.77
(1,2302)	2:171:B:PRO:HB3	2:181:B:ILE:HD12	20	0.73	0.21	0.77
(1,2302)	2:185:B:LYS:HB2	2:181:B:ILE:HD11	20	0.73	0.21	0.77
(1,2302)	2:171:B:PRO:HB3	2:181:B:ILE:HD11	20	0.73	0.21	0.77
(1,2302)	2:185:B:LYS:HB2	2:181:B:ILE:HD13	20	0.73	0.21	0.77
(1,2302)	2:171:B:PRO:HB3	2:181:B:ILE:HD13	20	0.73	0.21	0.77
(1,2047)	2:203:B:ILE:HG21	2:208:B:LEU:H	20	0.73	0.17	0.72
(1,2047)	2:203:B:ILE:HG22	2:208:B:LEU:H	20	0.73	0.17	0.72
(1,2047)	2:203:B:ILE:HG23	2:208:B:LEU:H	20	0.73	0.17	0.72
(1,2047)	2:197:B:LEU:HD21	2:197:B:LEU:H	20	0.73	0.17	0.72
(1,567)	2:196:B:ALA:HB3	2:193:B:MET:H	20	0.73	0.08	0.75
(1,567)	2:196:B:ALA:HB2	2:193:B:MET:H	20	0.73	0.08	0.75
(1,567)	2:196:B:ALA:HB1	2:193:B:MET:H	20	0.73	0.08	0.75
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD13	20	0.73	0.06	0.72
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD11	20	0.73	0.06	0.72
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD12	20	0.73	0.06	0.72
(1,5384)	2:156:B:LEU:HD23	2:162:B:THR:HG23	20	0.72	0.15	0.72

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5384)	2:156:B:LEU:HD21	2:162:B:THR:HG21	20	0.72	0.15	0.72
(1,5384)	2:156:B:LEU:HD21	2:162:B:THR:HG22	20	0.72	0.15	0.72
(1,5384)	2:156:B:LEU:HD22	2:162:B:THR:HG23	20	0.72	0.15	0.72
(1,5384)	2:156:B:LEU:HD22	2:162:B:THR:HG21	20	0.72	0.15	0.72
(1,5384)	2:156:B:LEU:HD21	2:162:B:THR:HG23	20	0.72	0.15	0.72
(1,5384)	2:156:B:LEU:HD23	2:162:B:THR:HG21	20	0.72	0.15	0.72
(1,5384)	2:156:B:LEU:HD22	2:162:B:THR:HG22	20	0.72	0.15	0.72
(1,5384)	2:156:B:LEU:HD23	2:162:B:THR:HG22	20	0.72	0.15	0.72
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	20	0.72	0.19	0.77
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD13	20	0.71	0.07	0.71
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD12	20	0.71	0.07	0.71
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD11	20	0.71	0.07	0.71
(1,1413)	1:20:A:SER:HB3	1:3:A:ARG:HE	20	0.7	0.3	0.68
(1,1413)	1:31:A:LYS:HE2	1:33:A:MET:H	20	0.7	0.3	0.68
(1,1413)	1:29:A:ARG:HD2	1:33:A:MET:H	20	0.7	0.3	0.68
(1,1413)	1:29:A:ARG:HD3	1:33:A:MET:H	20	0.7	0.3	0.68
(1,1413)	1:31:A:LYS:HE3	1:33:A:MET:H	20	0.7	0.3	0.68
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG21	20	0.7	0.1	0.7
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG23	20	0.7	0.1	0.7
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG22	20	0.7	0.1	0.7
(1,822)	1:24:A:PHE:HD1	2:166:B:LEU:H	20	0.7	0.08	0.68
(1,822)	1:24:A:PHE:HD2	2:166:B:LEU:H	20	0.7	0.08	0.68
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD11	20	0.68	0.1	0.7
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD12	20	0.68	0.1	0.7
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD13	20	0.68	0.1	0.7
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD2	20	0.68	0.08	0.68
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD1	20	0.68	0.08	0.68
(1,6109)	1:16:A:VAL:HG22	2:163:B:PHE:HD2	20	0.68	0.08	0.68
(1,6109)	1:16:A:VAL:HG21	2:163:B:PHE:HD1	20	0.68	0.08	0.68
(1,6109)	1:16:A:VAL:HG21	2:163:B:PHE:HD2	20	0.68	0.08	0.68
(1,4770)	2:247:B:TYR:H	2:250:B:LEU:HD21	20	0.68	0.25	0.73
(1,4770)	2:182:B:ARG:H	2:185:B:LYS:HG2	20	0.68	0.25	0.73
(1,4770)	2:247:B:TYR:H	2:250:B:LEU:HD23	20	0.68	0.25	0.73
(1,4770)	2:247:B:TYR:H	2:250:B:LEU:HD22	20	0.68	0.25	0.73
(1,5325)	1:14:A:LYS:HE2	1:16:A:VAL:HG23	20	0.68	0.27	0.7
(1,5325)	1:14:A:LYS:HE2	1:16:A:VAL:HG21	20	0.68	0.27	0.7
(1,5325)	2:167:B:VAL:HB	1:16:A:VAL:HG21	20	0.68	0.27	0.7
(1,5325)	2:167:B:VAL:HB	1:16:A:VAL:HG23	20	0.68	0.27	0.7
(1,5325)	2:167:B:VAL:HB	1:16:A:VAL:HG22	20	0.68	0.27	0.7
(1,5325)	1:14:A:LYS:HE2	1:16:A:VAL:HG22	20	0.68	0.27	0.7
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD11	20	0.67	0.05	0.68
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD12	20	0.67	0.05	0.68

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD13	20	0.67	0.05	0.68
(1,4021)	2:156:B:LEU:HD13	2:157:B:GLN:HG2	20	0.67	0.02	0.67
(1,4021)	2:156:B:LEU:HD12	2:157:B:GLN:HG2	20	0.67	0.02	0.67
(1,4021)	2:156:B:LEU:HD11	2:157:B:GLN:HG2	20	0.67	0.02	0.67
(1,633)	1:7:A:ILE:HG23	1:35:A:VAL:H	20	0.67	0.08	0.69
(1,633)	1:7:A:ILE:HG21	1:35:A:VAL:H	20	0.67	0.08	0.69
(1,633)	1:10:A:ILE:HD12	1:35:A:VAL:H	20	0.67	0.08	0.69
(1,633)	1:10:A:ILE:HD13	1:35:A:VAL:H	20	0.67	0.08	0.69
(1,633)	1:10:A:ILE:HD11	1:35:A:VAL:H	20	0.67	0.08	0.69
(1,633)	1:7:A:ILE:HG22	1:35:A:VAL:H	20	0.67	0.08	0.69
(1,1126)	1:16:A:VAL:HG22	2:163:B:PHE:H	20	0.67	0.11	0.69
(1,1126)	1:16:A:VAL:HG23	2:163:B:PHE:H	20	0.67	0.11	0.69
(1,1126)	1:16:A:VAL:HG21	2:163:B:PHE:H	20	0.67	0.11	0.69
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB2	20	0.67	0.13	0.66
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB3	20	0.67	0.13	0.66
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB1	20	0.67	0.13	0.66
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG23	20	0.67	0.12	0.69
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG21	20	0.67	0.12	0.69
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG22	20	0.67	0.12	0.69
(1,180)	1:26:A:ILE:HG23	1:29:A:ARG:H	20	0.66	0.09	0.64
(1,180)	1:10:A:ILE:HG21	1:29:A:ARG:H	20	0.66	0.09	0.64
(1,180)	1:26:A:ILE:HG21	1:29:A:ARG:H	20	0.66	0.09	0.64
(1,180)	1:10:A:ILE:HG23	1:29:A:ARG:H	20	0.66	0.09	0.64
(1,180)	1:10:A:ILE:HG22	1:29:A:ARG:H	20	0.66	0.09	0.64
(1,180)	1:26:A:ILE:HG22	1:29:A:ARG:H	20	0.66	0.09	0.64
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE3	20	0.66	0.14	0.68
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE1	20	0.66	0.14	0.68
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE2	20	0.66	0.14	0.68
(1,1148)	2:208:B:LEU:HD11	2:187:B:LEU:H	20	0.64	0.1	0.66
(1,1148)	2:208:B:LEU:HD13	2:187:B:LEU:H	20	0.64	0.1	0.66
(1,1148)	2:208:B:LEU:HD12	2:187:B:LEU:H	20	0.64	0.1	0.66
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	20	0.64	0.2	0.66
(1,2467)	2:232:B:ILE:HG12	2:233:B:PHE:HA	20	0.64	0.2	0.66
(1,2467)	2:229:B:LEU:HB3	2:233:B:PHE:HA	20	0.64	0.2	0.66
(1,1135)	2:231:B:LEU:HB3	2:153:B:LYS:H	20	0.63	0.06	0.62
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	20	0.63	0.06	0.62
(1,1912)	2:161:B:ILE:HD11	2:160:B:GLY:H	20	0.63	0.06	0.64
(1,1912)	2:161:B:ILE:HD13	2:160:B:GLY:H	20	0.63	0.06	0.64
(1,1912)	2:161:B:ILE:HD12	2:160:B:GLY:H	20	0.63	0.06	0.64
(1,1151)	2:161:B:ILE:HD13	2:228:B:ALA:H	20	0.62	0.14	0.66
(1,1151)	2:161:B:ILE:HD12	2:228:B:ALA:H	20	0.62	0.14	0.66
(1,1151)	2:161:B:ILE:HD11	2:228:B:ALA:H	20	0.62	0.14	0.66

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD11	20	0.62	0.17	0.6
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD13	20	0.62	0.17	0.6
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD12	20	0.62	0.17	0.6
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	20	0.62	0.14	0.56
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	20	0.62	0.13	0.64
(1,1103)	2:156:B:LEU:HB3	2:166:B:LEU:H	20	0.62	0.13	0.64
(1,4316)	2:180:B:CYS:H	2:177:B:ARG:HG2	20	0.62	0.19	0.68
(1,4316)	2:180:B:CYS:H	2:177:B:ARG:HG3	20	0.62	0.19	0.68
(1,4316)	2:208:B:LEU:H	2:205:B:ARG:HG3	20	0.62	0.19	0.68
(1,4316)	1:28:A:ARG:H	1:30:A:ARG:HG2	20	0.62	0.19	0.68
(1,1142)	1:35:A:VAL:HG12	2:151:B:GLU:H	20	0.62	0.06	0.61
(1,1142)	2:152:B:LEU:HD13	2:151:B:GLU:H	20	0.62	0.06	0.61
(1,1142)	2:152:B:LEU:HD12	2:151:B:GLU:H	20	0.62	0.06	0.61
(1,1142)	2:152:B:LEU:HD11	2:151:B:GLU:H	20	0.62	0.06	0.61
(1,1142)	1:35:A:VAL:HG13	2:151:B:GLU:H	20	0.62	0.06	0.61
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	20	0.62	0.18	0.64
(1,3555)	2:237:B:LEU:H	2:144:B:GLU:HG3	20	0.62	0.18	0.64
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	20	0.61	0.03	0.62
(1,1721)	2:179:B:LEU:HD13	2:180:B:CYS:H	20	0.61	0.03	0.62
(1,4262)	1:6:A:ILE:HG23	1:37:A:GLN:HB3	20	0.61	0.14	0.62
(1,4262)	1:6:A:ILE:HG21	1:37:A:GLN:HB3	20	0.61	0.14	0.62
(1,4262)	1:6:A:ILE:HG22	1:37:A:GLN:HB3	20	0.61	0.14	0.62
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD2	20	0.61	0.14	0.56
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD1	20	0.61	0.14	0.56
(1,5701)	2:227:B:ILE:HG22	2:161:B:ILE:HG23	20	0.59	0.1	0.56
(1,5701)	2:227:B:ILE:HG22	2:161:B:ILE:HG21	20	0.59	0.1	0.56
(1,5701)	2:227:B:ILE:HG21	2:161:B:ILE:HG23	20	0.59	0.1	0.56
(1,5701)	2:227:B:ILE:HG21	2:161:B:ILE:HG21	20	0.59	0.1	0.56
(1,5701)	2:227:B:ILE:HG23	2:161:B:ILE:HG23	20	0.59	0.1	0.56
(1,5701)	2:227:B:ILE:HG21	2:161:B:ILE:HG22	20	0.59	0.1	0.56
(1,5701)	2:227:B:ILE:HG22	2:161:B:ILE:HG22	20	0.59	0.1	0.56
(1,5701)	2:227:B:ILE:HG23	2:161:B:ILE:HG22	20	0.59	0.1	0.56
(1,5701)	2:227:B:ILE:HG23	2:161:B:ILE:HG21	20	0.59	0.1	0.56
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD13	20	0.59	0.05	0.59
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD12	20	0.59	0.05	0.59
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD11	20	0.59	0.05	0.59
(1,4560)	1:45:A:ASP:HB2	1:3:A:ARG:HG3	20	0.58	0.21	0.55
(1,4560)	1:20:A:SER:HB3	1:3:A:ARG:HG2	20	0.58	0.21	0.55
(1,5891)	2:224:B:LYS:H	2:161:B:ILE:HD13	20	0.58	0.07	0.59
(1,5891)	2:224:B:LYS:H	2:161:B:ILE:HD12	20	0.58	0.07	0.59
(1,5891)	2:160:B:GLY:H	2:161:B:ILE:HD13	20	0.58	0.07	0.59
(1,5891)	2:160:B:GLY:H	2:161:B:ILE:HD12	20	0.58	0.07	0.59

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5891)	2:160:B:GLY:H	2:161:B:ILE:HD11	20	0.58	0.07	0.59
(1,5891)	2:225:B:TYR:H	2:161:B:ILE:HD13	20	0.58	0.07	0.59
(1,5891)	2:224:B:LYS:H	2:161:B:ILE:HD11	20	0.58	0.07	0.59
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD23	20	0.58	0.13	0.57
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD21	20	0.58	0.13	0.57
(1,4401)	2:155:B:LYS:H	2:156:B:LEU:HD22	20	0.58	0.13	0.57
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD22	20	0.58	0.13	0.57
(1,4401)	2:155:B:LYS:H	2:156:B:LEU:HD23	20	0.58	0.13	0.57
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG23	20	0.57	0.06	0.6
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG21	20	0.57	0.06	0.6
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG22	20	0.57	0.06	0.6
(1,1523)	2:168:B:LEU:HD21	2:168:B:LEU:H	20	0.57	0.13	0.53
(1,1523)	2:168:B:LEU:HD23	2:168:B:LEU:H	20	0.57	0.13	0.53
(1,1523)	2:168:B:LEU:HD22	2:168:B:LEU:H	20	0.57	0.13	0.53
(1,1523)	1:49:A:VAL:HG22	2:168:B:LEU:H	20	0.57	0.13	0.53
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG12	20	0.56	0.09	0.52
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG13	20	0.56	0.09	0.52
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG11	20	0.56	0.09	0.52
(1,2048)	2:187:B:LEU:HD13	2:197:B:LEU:H	20	0.55	0.07	0.54
(1,2048)	2:187:B:LEU:HD12	2:197:B:LEU:H	20	0.55	0.07	0.54
(1,2048)	2:187:B:LEU:HD11	2:197:B:LEU:H	20	0.55	0.07	0.54
(1,2925)	2:188:B:ALA:HB2	2:184:B:ALA:HA	20	0.55	0.12	0.58
(1,2925)	2:188:B:ALA:HB3	2:184:B:ALA:HA	20	0.55	0.12	0.58
(1,2925)	2:188:B:ALA:HB1	2:184:B:ALA:HA	20	0.55	0.12	0.58
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD12	20	0.55	0.1	0.54
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD11	20	0.55	0.1	0.54
(1,4302)	1:19:A:THR:H	1:25:A:LEU:HD12	20	0.55	0.1	0.54
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD13	20	0.55	0.1	0.54
(1,4302)	1:19:A:THR:H	1:25:A:LEU:HD13	20	0.55	0.1	0.54
(1,4302)	1:19:A:THR:H	1:25:A:LEU:HD11	20	0.55	0.1	0.54
(1,3743)	2:149:B:ILE:HG12	2:147:B:GLU:HG2	20	0.55	0.12	0.56
(1,3743)	2:149:B:ILE:HG12	2:150:B:GLU:HG2	20	0.55	0.12	0.56
(1,5052)	2:167:B:VAL:HG13	2:170:B:VAL:HG13	20	0.55	0.22	0.54
(1,5052)	2:167:B:VAL:HG12	2:170:B:VAL:HG12	20	0.55	0.22	0.54
(1,5052)	2:167:B:VAL:HG11	2:170:B:VAL:HG11	20	0.55	0.22	0.54
(1,5052)	2:167:B:VAL:HG11	2:170:B:VAL:HG12	20	0.55	0.22	0.54
(1,5052)	2:167:B:VAL:HG13	2:170:B:VAL:HG12	20	0.55	0.22	0.54
(1,5052)	2:167:B:VAL:HG11	2:170:B:VAL:HG13	20	0.55	0.22	0.54
(1,5052)	2:167:B:VAL:HG12	2:170:B:VAL:HG13	20	0.55	0.22	0.54
(1,5052)	2:167:B:VAL:HG13	2:170:B:VAL:HG11	20	0.55	0.22	0.54
(1,4679)	2:232:B:ILE:HG22	2:152:B:LEU:HD23	20	0.54	0.14	0.55
(1,4679)	2:232:B:ILE:HG23	2:152:B:LEU:HD23	20	0.54	0.14	0.55

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4679)	2:232:B:ILE:HG23	2:152:B:LEU:HD22	20	0.54	0.14	0.55
(1,4679)	2:232:B:ILE:HG21	2:152:B:LEU:HD23	20	0.54	0.14	0.55
(1,4679)	2:232:B:ILE:HG23	2:152:B:LEU:HD21	20	0.54	0.14	0.55
(1,4679)	2:232:B:ILE:HG22	2:152:B:LEU:HD21	20	0.54	0.14	0.55
(1,4679)	2:232:B:ILE:HG21	2:152:B:LEU:HD22	20	0.54	0.14	0.55
(1,4679)	2:232:B:ILE:HG21	2:152:B:LEU:HD21	20	0.54	0.14	0.55
(1,4679)	2:232:B:ILE:HG22	2:152:B:LEU:HD22	20	0.54	0.14	0.55
(1,631)	2:187:B:LEU:HD13	2:197:B:LEU:H	20	0.54	0.07	0.54
(1,631)	2:187:B:LEU:HD12	2:197:B:LEU:H	20	0.54	0.07	0.54
(1,631)	2:187:B:LEU:HD11	2:197:B:LEU:H	20	0.54	0.07	0.54
(1,631)	2:197:B:LEU:HD11	2:197:B:LEU:H	20	0.54	0.07	0.54
(1,674)	2:232:B:ILE:HG22	2:238:B:ASN:H	20	0.53	0.17	0.55
(1,674)	2:232:B:ILE:HG23	2:238:B:ASN:H	20	0.53	0.17	0.55
(1,674)	2:232:B:ILE:HG21	2:238:B:ASN:H	20	0.53	0.17	0.55
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG22	20	0.53	0.17	0.55
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG23	20	0.53	0.17	0.55
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG21	20	0.53	0.17	0.55
(1,1125)	2:162:B:THR:HG23	2:163:B:PHE:H	20	0.53	0.06	0.54
(1,1125)	2:162:B:THR:HG21	2:163:B:PHE:H	20	0.53	0.06	0.54
(1,1125)	2:162:B:THR:HG22	2:163:B:PHE:H	20	0.53	0.06	0.54
(1,1125)	2:153:B:LYS:HG3	2:163:B:PHE:H	20	0.53	0.06	0.54
(1,1138)	2:227:B:ILE:HD11	2:227:B:ILE:H	20	0.51	0.03	0.51
(1,1138)	2:227:B:ILE:HD12	2:227:B:ILE:H	20	0.51	0.03	0.51
(1,1138)	2:227:B:ILE:HD13	2:227:B:ILE:H	20	0.51	0.03	0.51
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD12	20	0.51	0.12	0.51
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD11	20	0.51	0.12	0.51
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD13	20	0.51	0.12	0.51
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	20	0.5	0.11	0.51
(1,2714)	2:232:B:ILE:HG12	2:241:B:LYS:HA	20	0.5	0.11	0.51
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD12	20	0.5	0.06	0.51
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD13	20	0.5	0.06	0.51
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD11	20	0.5	0.06	0.51
(1,619)	2:167:B:VAL:HG21	1:25:A:LEU:H	20	0.5	0.09	0.48
(1,619)	2:167:B:VAL:HG22	1:25:A:LEU:H	20	0.5	0.09	0.48
(1,619)	2:167:B:VAL:HG23	1:25:A:LEU:H	20	0.5	0.09	0.48
(1,619)	1:25:A:LEU:HD22	1:25:A:LEU:H	20	0.5	0.09	0.48
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	20	0.5	0.11	0.5
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD12	20	0.49	0.14	0.46
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD13	20	0.49	0.14	0.46
(1,4612)	2:185:B:LYS:HE2	2:244:B:LEU:HD12	20	0.49	0.14	0.46
(1,4612)	2:185:B:LYS:HE2	2:244:B:LEU:HD11	20	0.49	0.14	0.46
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD11	20	0.49	0.14	0.46

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1299)	1:41:A:PHE:HZ	1:21:A:GLU:H	20	0.49	0.14	0.52
(1,1299)	2:246:B:TYR:HE1	1:21:A:GLU:H	20	0.49	0.14	0.52
(1,1299)	2:246:B:TYR:HE2	1:21:A:GLU:H	20	0.49	0.14	0.52
(1,5820)	2:219:B:ILE:HG12	2:218:B:THR:HB	20	0.48	0.14	0.47
(1,5820)	2:183:B:LEU:HD11	2:218:B:THR:HB	20	0.48	0.14	0.47
(1,5820)	2:183:B:LEU:HD13	2:218:B:THR:HB	20	0.48	0.14	0.47
(1,5820)	2:183:B:LEU:HD12	2:218:B:THR:HB	20	0.48	0.14	0.47
(1,5820)	2:214:B:VAL:HG12	2:218:B:THR:HB	20	0.48	0.14	0.47
(1,2940)	1:7:A:ILE:HG22	1:9:A:GLU:HA	20	0.48	0.09	0.51
(1,2940)	1:7:A:ILE:HG23	1:9:A:GLU:HA	20	0.48	0.09	0.51
(1,2940)	1:7:A:ILE:HG21	1:9:A:GLU:HA	20	0.48	0.09	0.51
(1,616)	1:26:A:ILE:HD11	1:26:A:ILE:H	20	0.48	0.05	0.48
(1,616)	1:26:A:ILE:HD13	1:26:A:ILE:H	20	0.48	0.05	0.48
(1,616)	1:26:A:ILE:HD12	1:26:A:ILE:H	20	0.48	0.05	0.48
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG22	20	0.48	0.18	0.46
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG23	20	0.48	0.18	0.46
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG21	20	0.48	0.18	0.46
(1,1836)	1:19:A:THR:HG21	1:20:A:SER:H	20	0.47	0.08	0.48
(1,1836)	1:19:A:THR:HG23	1:20:A:SER:H	20	0.47	0.08	0.48
(1,1836)	1:19:A:THR:HG22	1:20:A:SER:H	20	0.47	0.08	0.48
(1,1836)	1:4:A:LEU:HB2	1:20:A:SER:H	20	0.47	0.08	0.48
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD11	20	0.47	0.14	0.42
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD13	20	0.47	0.14	0.42
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD12	20	0.47	0.14	0.42
(1,2979)	2:227:B:ILE:HG22	2:231:B:LEU:HA	20	0.47	0.09	0.48
(1,2979)	1:18:A:LEU:HD13	2:244:B:LEU:HA	20	0.47	0.09	0.48
(1,2979)	2:227:B:ILE:HG21	2:231:B:LEU:HA	20	0.47	0.09	0.48
(1,2979)	2:227:B:ILE:HG23	2:231:B:LEU:HA	20	0.47	0.09	0.48
(1,2979)	1:18:A:LEU:HD11	2:244:B:LEU:HA	20	0.47	0.09	0.48
(1,2979)	1:18:A:LEU:HD12	2:244:B:LEU:HA	20	0.47	0.09	0.48
(1,1503)	2:214:B:VAL:HG11	2:212:B:ALA:H	20	0.46	0.11	0.44
(1,1503)	2:214:B:VAL:HG12	2:212:B:ALA:H	20	0.46	0.11	0.44
(1,1503)	2:214:B:VAL:HG13	2:212:B:ALA:H	20	0.46	0.11	0.44
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD2	20	0.46	0.11	0.46
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	20	0.46	0.11	0.46
(1,1741)	2:170:B:VAL:HG22	1:23:A:GLU:H	20	0.45	0.13	0.48
(1,1741)	2:170:B:VAL:HG23	1:23:A:GLU:H	20	0.45	0.13	0.48
(1,1741)	2:170:B:VAL:HG21	1:23:A:GLU:H	20	0.45	0.13	0.48
(1,1741)	1:25:A:LEU:HD21	1:23:A:GLU:H	20	0.45	0.13	0.48
(1,1540)	2:232:B:ILE:HG23	2:235:B:SER:H	20	0.45	0.16	0.42
(1,1540)	2:232:B:ILE:HG21	2:235:B:SER:H	20	0.45	0.16	0.42
(1,1540)	2:232:B:ILE:HG22	2:235:B:SER:H	20	0.45	0.16	0.42

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	20	0.45	0.06	0.47
(1,605)	1:23:A:GLU:HG2	2:170:B:VAL:H	20	0.45	0.06	0.47
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG22	20	0.45	0.18	0.45
(1,5621)	2:185:B:LYS:HE3	2:181:B:ILE:HG23	20	0.45	0.18	0.45
(1,5621)	2:185:B:LYS:HE3	2:181:B:ILE:HG22	20	0.45	0.18	0.45
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG21	20	0.45	0.18	0.45
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG23	20	0.45	0.18	0.45
(1,5621)	2:178:B:GLN:HG2	2:181:B:ILE:HG23	20	0.45	0.18	0.45
(1,5621)	2:180:B:CYS:HB2	2:181:B:ILE:HG21	20	0.45	0.18	0.45
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	20	0.44	0.15	0.46
(1,1946)	2:251:B:GLU:HG3	2:248:B:THR:H	20	0.44	0.15	0.46
(1,1946)	2:181:B:ILE:HB	2:248:B:THR:H	20	0.44	0.15	0.46
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	20	0.44	0.06	0.46
(1,1286)	2:233:B:PHE:HD2	2:244:B:LEU:H	20	0.44	0.07	0.46
(1,1286)	2:233:B:PHE:HD1	2:244:B:LEU:H	20	0.44	0.07	0.46
(1,1295)	2:194:B:TYR:HE2	2:195:B:ASN:H	20	0.43	0.11	0.43
(1,1295)	2:194:B:TYR:HE1	2:195:B:ASN:H	20	0.43	0.11	0.43
(1,4629)	2:181:B:ILE:HB	2:229:B:LEU:HD21	20	0.43	0.11	0.43
(1,4629)	2:181:B:ILE:HB	2:229:B:LEU:HD22	20	0.43	0.11	0.43
(1,4629)	2:181:B:ILE:HB	2:229:B:LEU:HD23	20	0.43	0.11	0.43
(1,4629)	2:226:B:ILE:HG13	2:229:B:LEU:HD22	20	0.43	0.11	0.43
(1,4629)	2:226:B:ILE:HG13	2:229:B:LEU:HD21	20	0.43	0.11	0.43
(1,4629)	2:226:B:ILE:HG13	2:229:B:LEU:HD23	20	0.43	0.11	0.43
(1,1132)	1:16:A:VAL:HG22	2:164:B:LEU:H	20	0.43	0.25	0.35
(1,1132)	2:164:B:LEU:HD22	2:164:B:LEU:H	20	0.43	0.25	0.35
(1,1132)	2:164:B:LEU:HD23	2:164:B:LEU:H	20	0.43	0.25	0.35
(1,1132)	2:164:B:LEU:HD21	2:164:B:LEU:H	20	0.43	0.25	0.35
(1,1132)	1:16:A:VAL:HG21	2:164:B:LEU:H	20	0.43	0.25	0.35
(1,1201)	2:156:B:LEU:HD12	2:228:B:ALA:H	20	0.43	0.1	0.46
(1,1201)	2:229:B:LEU:HD11	2:228:B:ALA:H	20	0.43	0.1	0.46
(1,1201)	2:229:B:LEU:HD12	2:228:B:ALA:H	20	0.43	0.1	0.46
(1,1201)	2:156:B:LEU:HD13	2:228:B:ALA:H	20	0.43	0.1	0.46
(1,1201)	2:231:B:LEU:HD22	2:228:B:ALA:H	20	0.43	0.1	0.46
(1,1201)	2:156:B:LEU:HD11	2:228:B:ALA:H	20	0.43	0.1	0.46
(1,1201)	2:229:B:LEU:HD13	2:228:B:ALA:H	20	0.43	0.1	0.46
(1,1201)	2:156:B:LEU:HD21	2:228:B:ALA:H	20	0.43	0.1	0.46
(1,1201)	2:231:B:LEU:HD23	2:228:B:ALA:H	20	0.43	0.1	0.46
(1,1201)	2:156:B:LEU:HD22	2:228:B:ALA:H	20	0.43	0.1	0.46
(1,179)	1:27:A:ILE:HG13	1:29:A:ARG:H	20	0.43	0.11	0.44
(1,179)	1:15:A:ALA:HB2	1:29:A:ARG:H	20	0.43	0.11	0.44
(1,179)	1:15:A:ALA:HB3	1:29:A:ARG:H	20	0.43	0.11	0.44
(1,179)	1:15:A:ALA:HB1	1:29:A:ARG:H	20	0.43	0.11	0.44

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	20	0.42	0.1	0.4
(1,910)	2:170:B:VAL:HA	2:225:B:TYR:H	20	0.42	0.1	0.4
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	20	0.42	0.07	0.41
(1,546)	2:180:B:CYS:HB2	2:179:B:LEU:H	20	0.42	0.07	0.41
(1,1168)	1:46:A:ILE:HD12	1:46:A:ILE:H	20	0.41	0.07	0.4
(1,1168)	1:46:A:ILE:HD11	1:46:A:ILE:H	20	0.41	0.07	0.4
(1,1168)	1:46:A:ILE:HD13	1:46:A:ILE:H	20	0.41	0.07	0.4
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG23	20	0.4	0.08	0.38
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG22	20	0.4	0.08	0.38
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG21	20	0.4	0.08	0.38
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	20	0.4	0.03	0.4
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD11	20	0.39	0.11	0.41
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD13	20	0.39	0.11	0.41
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD12	20	0.39	0.11	0.41
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD23	20	0.39	0.08	0.4
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD22	20	0.39	0.08	0.4
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD21	20	0.39	0.08	0.4
(1,4576)	2:159:B:PHE:HB2	2:156:B:LEU:HD21	20	0.39	0.08	0.4
(1,4576)	2:159:B:PHE:HB2	2:156:B:LEU:HD22	20	0.39	0.08	0.4
(1,4576)	2:159:B:PHE:HB2	2:156:B:LEU:HD23	20	0.39	0.08	0.4
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD13	20	0.39	0.13	0.37
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD12	20	0.39	0.13	0.37
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD11	20	0.39	0.13	0.37
(1,1198)	2:156:B:LEU:HD13	2:157:B:GLN:H	20	0.38	0.04	0.38
(1,1198)	2:156:B:LEU:HD12	2:157:B:GLN:H	20	0.38	0.04	0.38
(1,1198)	2:156:B:LEU:HD11	2:157:B:GLN:H	20	0.38	0.04	0.38
(1,2369)	2:149:B:ILE:HD12	1:35:A:VAL:HA	20	0.38	0.13	0.38
(1,2369)	2:149:B:ILE:HD13	1:35:A:VAL:HA	20	0.38	0.13	0.38
(1,2369)	2:149:B:ILE:HD11	1:35:A:VAL:HA	20	0.38	0.13	0.38
(1,2369)	1:17:A:VAL:HG12	1:35:A:VAL:HA	20	0.38	0.13	0.38
(1,173)	1:10:A:ILE:HD11	1:10:A:ILE:H	20	0.37	0.06	0.37
(1,173)	1:10:A:ILE:HD13	1:10:A:ILE:H	20	0.37	0.06	0.37
(1,173)	1:10:A:ILE:HD12	1:10:A:ILE:H	20	0.37	0.06	0.37
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	20	0.37	0.11	0.36
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD11	20	0.37	0.09	0.36
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD13	20	0.37	0.09	0.36
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD12	20	0.37	0.09	0.36
(1,1733)	2:187:B:LEU:HD12	2:188:B:ALA:H	20	0.36	0.08	0.35
(1,1733)	2:187:B:LEU:HD22	2:188:B:ALA:H	20	0.36	0.08	0.35
(1,1733)	2:187:B:LEU:HD23	2:188:B:ALA:H	20	0.36	0.08	0.35
(1,1733)	2:187:B:LEU:HD13	2:188:B:ALA:H	20	0.36	0.08	0.35
(1,1733)	2:187:B:LEU:HD21	2:188:B:ALA:H	20	0.36	0.08	0.35

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE2	20	0.36	0.08	0.36
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE3	20	0.36	0.08	0.36
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE1	20	0.36	0.08	0.36
(1,2728)	2:231:B:LEU:HD22	2:155:B:LYS:HA	20	0.35	0.15	0.36
(1,2728)	2:231:B:LEU:HD21	2:155:B:LYS:HA	20	0.35	0.15	0.36
(1,2728)	2:231:B:LEU:HD23	2:155:B:LYS:HA	20	0.35	0.15	0.36
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE3	20	0.35	0.1	0.4
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE1	20	0.35	0.1	0.4
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE2	20	0.35	0.1	0.4
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE1	20	0.35	0.1	0.32
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE3	20	0.35	0.1	0.32
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE2	20	0.35	0.1	0.32
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG22	20	0.35	0.07	0.36
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG23	20	0.35	0.07	0.36
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG21	20	0.35	0.07	0.36
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE1	20	0.35	0.11	0.32
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE2	20	0.35	0.11	0.32
(1,1489)	1:31:A:LYS:HG2	1:33:A:MET:H	20	0.34	0.13	0.34
(1,1489)	1:29:A:ARG:HG3	1:33:A:MET:H	20	0.34	0.13	0.34
(1,1470)	2:184:B:ALA:HB2	2:231:B:LEU:H	20	0.34	0.06	0.32
(1,1470)	2:184:B:ALA:HB3	2:231:B:LEU:H	20	0.34	0.06	0.32
(1,1470)	2:184:B:ALA:HB1	2:231:B:LEU:H	20	0.34	0.06	0.32
(1,1470)	2:232:B:ILE:HB	2:231:B:LEU:H	20	0.34	0.06	0.32
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG21	20	0.34	0.09	0.34
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG22	20	0.34	0.09	0.34
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG23	20	0.34	0.09	0.34
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	20	0.33	0.12	0.32
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD12	20	0.33	0.12	0.36
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD11	20	0.33	0.12	0.36
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD13	20	0.33	0.12	0.36
(1,5721)	2:228:B:ALA:H	2:203:B:ILE:HD13	20	0.32	0.1	0.3
(1,5721)	2:220:B:GLY:H	2:203:B:ILE:HD13	20	0.32	0.1	0.3
(1,5721)	2:220:B:GLY:H	2:203:B:ILE:HD11	20	0.32	0.1	0.3
(1,5721)	2:220:B:GLY:H	2:203:B:ILE:HD12	20	0.32	0.1	0.3
(1,5721)	2:228:B:ALA:H	2:203:B:ILE:HD11	20	0.32	0.1	0.3
(1,269)	1:26:A:ILE:HG22	1:15:A:ALA:H	20	0.32	0.04	0.31
(1,269)	1:26:A:ILE:HG23	1:15:A:ALA:H	20	0.32	0.04	0.31
(1,269)	1:26:A:ILE:HG21	1:15:A:ALA:H	20	0.32	0.04	0.31
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD12	20	0.31	0.05	0.31
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD11	20	0.31	0.05	0.31
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD13	20	0.31	0.05	0.31
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	20	0.31	0.02	0.31

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD11	20	0.3	0.06	0.3
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD12	20	0.3	0.06	0.3
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD13	20	0.3	0.06	0.3
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	20	0.3	0.1	0.3
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD11	20	0.29	0.02	0.3
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD13	20	0.29	0.02	0.3
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD12	20	0.29	0.02	0.3
(1,2421)	2:194:B:TYR:HE1	2:194:B:TYR:HA	20	0.29	0.05	0.29
(1,2421)	2:194:B:TYR:HE2	2:194:B:TYR:HA	20	0.29	0.05	0.29
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	20	0.28	0.07	0.28
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD11	20	0.28	0.01	0.28
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD13	20	0.28	0.01	0.28
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD12	20	0.28	0.01	0.28
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	20	0.27	0.1	0.27
(1,1156)	2:239:B:LEU:HB2	2:143:B:ILE:H	20	0.27	0.1	0.27
(1,626)	2:214:B:VAL:HG12	2:215:B:HIS:H	20	0.26	0.06	0.24
(1,626)	2:214:B:VAL:HG13	2:215:B:HIS:H	20	0.26	0.06	0.24
(1,626)	2:214:B:VAL:HG11	2:215:B:HIS:H	20	0.26	0.06	0.24
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD22	20	0.25	0.04	0.26
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD21	20	0.25	0.04	0.26
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD23	20	0.25	0.04	0.26
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD12	20	0.25	0.08	0.24
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD11	20	0.25	0.08	0.24
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD13	20	0.25	0.08	0.24
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	20	0.24	0.06	0.25
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD21	20	0.24	0.03	0.24
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD22	20	0.24	0.03	0.24
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD11	20	0.24	0.03	0.24
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD23	20	0.24	0.03	0.24
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD12	20	0.24	0.03	0.24
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD13	20	0.24	0.03	0.24
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	20	0.24	0.03	0.24
(1,388)	1:24:A:PHE:HD2	1:25:A:LEU:H	20	0.24	0.06	0.22
(1,388)	1:24:A:PHE:HD1	1:25:A:LEU:H	20	0.24	0.06	0.22
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	20	0.23	0.01	0.23
(1,3696)	2:158:B:GLU:HA	2:158:B:GLU:HG3	20	0.23	0.01	0.23
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	20	0.22	0.01	0.22
(1,3062)	1:34:A:LYS:HB3	1:34:A:LYS:HA	20	0.22	0.01	0.22
(1,5396)	2:227:B:ILE:HG22	2:228:B:ALA:HB1	20	0.22	0.07	0.23
(1,5396)	2:227:B:ILE:HG22	2:228:B:ALA:HB3	20	0.22	0.07	0.23
(1,5396)	2:227:B:ILE:HG22	2:228:B:ALA:HB2	20	0.22	0.07	0.23
(1,5396)	2:227:B:ILE:HG21	2:228:B:ALA:HB2	20	0.22	0.07	0.23

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5396)	2:227:B:ILE:HG23	2:228:B:ALA:HB3	20	0.22	0.07	0.23
(1,5396)	2:227:B:ILE:HG21	2:228:B:ALA:HB1	20	0.22	0.07	0.23
(1,5396)	2:227:B:ILE:HG21	2:228:B:ALA:HB3	20	0.22	0.07	0.23
(1,5396)	2:227:B:ILE:HG23	2:228:B:ALA:HB2	20	0.22	0.07	0.23
(1,5396)	2:227:B:ILE:HG23	2:228:B:ALA:HB1	20	0.22	0.07	0.23
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	20	0.21	0.02	0.21
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD23	20	0.21	0.05	0.22
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD21	20	0.21	0.05	0.22
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD22	20	0.21	0.05	0.22
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG22	20	0.21	0.01	0.21
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG23	20	0.21	0.01	0.21
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG21	20	0.21	0.01	0.21
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	20	0.21	0.01	0.21
(1,2909)	2:168:B:LEU:HG	2:168:B:LEU:HA	20	0.21	0.01	0.21
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	20	0.18	0.02	0.19
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	20	0.16	0.01	0.15
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	20	0.15	0.02	0.15
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	20	0.14	0.03	0.13
(1,3274)	2:203:B:ILE:HG13	2:223:B:ARG:HD3	19	0.85	0.28	0.93
(1,3274)	2:227:B:ILE:HD12	2:223:B:ARG:HD3	19	0.85	0.28	0.93
(1,3274)	2:227:B:ILE:HD13	2:223:B:ARG:HD3	19	0.85	0.28	0.93
(1,5631)	1:37:A:GLN:HB2	2:143:B:ILE:HG23	19	0.84	0.13	0.83
(1,5631)	1:38:A:GLN:HG3	2:143:B:ILE:HG22	19	0.84	0.13	0.83
(1,5631)	1:38:A:GLN:HG3	2:143:B:ILE:HG23	19	0.84	0.13	0.83
(1,5631)	1:37:A:GLN:HB2	2:143:B:ILE:HG22	19	0.84	0.13	0.83
(1,5631)	1:38:A:GLN:HG3	2:143:B:ILE:HG21	19	0.84	0.13	0.83
(1,5631)	2:144:B:GLU:HG2	2:143:B:ILE:HG21	19	0.84	0.13	0.83
(1,5631)	1:37:A:GLN:HB2	2:143:B:ILE:HG21	19	0.84	0.13	0.83
(1,3278)	2:219:B:ILE:HG21	2:205:B:ARG:HD3	19	0.78	0.1	0.72
(1,3278)	2:219:B:ILE:HG22	2:205:B:ARG:HD3	19	0.78	0.1	0.72
(1,3278)	1:35:A:VAL:HG13	2:146:B:ARG:HD2	19	0.78	0.1	0.72
(1,3278)	2:219:B:ILE:HG23	2:205:B:ARG:HD2	19	0.78	0.1	0.72
(1,3278)	2:219:B:ILE:HG22	2:205:B:ARG:HD2	19	0.78	0.1	0.72
(1,3278)	1:35:A:VAL:HG11	2:146:B:ARG:HD2	19	0.78	0.1	0.72
(1,3278)	2:219:B:ILE:HG23	2:205:B:ARG:HD3	19	0.78	0.1	0.72
(1,3278)	2:219:B:ILE:HG21	2:205:B:ARG:HD2	19	0.78	0.1	0.72
(1,1458)	2:211:B:LYS:HD2	2:212:B:ALA:H	19	0.74	0.18	0.73
(1,1458)	2:211:B:LYS:HD3	2:212:B:ALA:H	19	0.74	0.18	0.73
(1,1458)	2:208:B:LEU:HB2	2:212:B:ALA:H	19	0.74	0.18	0.73
(1,1837)	1:4:A:LEU:HD11	1:20:A:SER:H	19	0.72	0.16	0.73
(1,1837)	1:4:A:LEU:HD13	1:20:A:SER:H	19	0.72	0.16	0.73
(1,1837)	1:4:A:LEU:HD12	1:20:A:SER:H	19	0.72	0.16	0.73

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2309)	2:223:B:ARG:HG3	2:203:B:ILE:HD13	19	0.67	0.13	0.71
(1,2309)	2:223:B:ARG:HG2	2:203:B:ILE:HD13	19	0.67	0.13	0.71
(1,2309)	2:223:B:ARG:HG3	2:203:B:ILE:HD12	19	0.67	0.13	0.71
(1,2309)	2:208:B:LEU:HB2	2:203:B:ILE:HD12	19	0.67	0.13	0.71
(1,2309)	2:223:B:ARG:HG3	2:203:B:ILE:HD11	19	0.67	0.13	0.71
(1,2309)	2:208:B:LEU:HB2	2:203:B:ILE:HD11	19	0.67	0.13	0.71
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD22	19	0.58	0.18	0.62
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD23	19	0.58	0.18	0.62
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD21	19	0.58	0.18	0.62
(1,4728)	1:20:A:SER:H	1:4:A:LEU:HD23	19	0.58	0.18	0.62
(1,3089)	2:187:B:LEU:HD12	2:188:B:ALA:HA	19	0.57	0.07	0.58
(1,3089)	2:187:B:LEU:HD11	2:188:B:ALA:HA	19	0.57	0.07	0.58
(1,3089)	2:187:B:LEU:HD13	2:188:B:ALA:HA	19	0.57	0.07	0.58
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG23	19	0.55	0.2	0.63
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG21	19	0.55	0.2	0.63
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG22	19	0.55	0.2	0.63
(1,5940)	1:39:A:VAL:HG13	1:17:A:VAL:HG21	19	0.52	0.22	0.52
(1,5940)	1:39:A:VAL:HG13	1:17:A:VAL:HG23	19	0.52	0.22	0.52
(1,5940)	1:39:A:VAL:HG11	1:17:A:VAL:HG22	19	0.52	0.22	0.52
(1,5940)	1:39:A:VAL:HG12	1:17:A:VAL:HG23	19	0.52	0.22	0.52
(1,5940)	1:39:A:VAL:HG12	1:17:A:VAL:HG21	19	0.52	0.22	0.52
(1,5940)	1:39:A:VAL:HG13	1:17:A:VAL:HG22	19	0.52	0.22	0.52
(1,5940)	1:39:A:VAL:HG11	1:17:A:VAL:HG23	19	0.52	0.22	0.52
(1,5940)	1:39:A:VAL:HG12	1:17:A:VAL:HG22	19	0.52	0.22	0.52
(1,2146)	2:163:B:PHE:HE2	2:232:B:ILE:HD12	19	0.51	0.16	0.5
(1,2146)	2:163:B:PHE:HE2	2:232:B:ILE:HD13	19	0.51	0.16	0.5
(1,2146)	2:163:B:PHE:HE1	2:232:B:ILE:HD11	19	0.51	0.16	0.5
(1,2146)	2:163:B:PHE:HE1	2:232:B:ILE:HD13	19	0.51	0.16	0.5
(1,2146)	2:163:B:PHE:HE2	2:232:B:ILE:HD11	19	0.51	0.16	0.5
(1,2146)	2:163:B:PHE:HE1	2:232:B:ILE:HD12	19	0.51	0.16	0.5
(1,2024)	2:218:B:THR:HG23	2:180:B:CYS:H	19	0.51	0.28	0.44
(1,2024)	2:218:B:THR:HG21	2:180:B:CYS:H	19	0.51	0.28	0.44
(1,2024)	2:218:B:THR:HG22	2:180:B:CYS:H	19	0.51	0.28	0.44
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG2	19	0.51	0.14	0.54
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG3	19	0.51	0.14	0.54
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD21	19	0.51	0.14	0.55
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD22	19	0.51	0.14	0.55
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD23	19	0.51	0.14	0.55
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG21	19	0.47	0.15	0.49
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG22	19	0.47	0.15	0.49
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG23	19	0.47	0.15	0.49
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG21	19	0.47	0.15	0.49

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG22	19	0.47	0.15	0.49
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG23	19	0.47	0.15	0.49
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	19	0.46	0.15	0.49
(1,1829)	1:17:A:VAL:HB	1:20:A:SER:H	19	0.46	0.15	0.49
(1,6184)	2:172:B:LYS:HB2	2:173:B:HIS:HD2	19	0.46	0.18	0.44
(1,6184)	2:209:B:LYS:HG3	2:215:B:HIS:HD2	19	0.46	0.18	0.44
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB2	19	0.46	0.22	0.44
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB3	19	0.46	0.22	0.44
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB1	19	0.46	0.22	0.44
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD12	19	0.43	0.21	0.41
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD13	19	0.43	0.21	0.41
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD11	19	0.43	0.21	0.41
(1,2196)	1:18:A:LEU:HA	1:6:A:ILE:HD11	19	0.43	0.21	0.41
(1,2196)	1:18:A:LEU:HA	1:6:A:ILE:HD12	19	0.43	0.21	0.41
(1,2196)	1:18:A:LEU:HA	1:6:A:ILE:HD13	19	0.43	0.21	0.41
(1,1526)	1:7:A:ILE:HD13	1:33:A:MET:H	19	0.42	0.12	0.43
(1,1526)	1:46:A:ILE:HG13	1:3:A:ARG:HE	19	0.42	0.12	0.43
(1,1526)	1:7:A:ILE:HD12	1:33:A:MET:H	19	0.42	0.12	0.43
(1,1526)	1:7:A:ILE:HD11	1:33:A:MET:H	19	0.42	0.12	0.43
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	19	0.41	0.1	0.41
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	19	0.39	0.1	0.4
(1,6042)	2:161:B:ILE:HD12	2:159:B:PHE:HD2	19	0.39	0.14	0.37
(1,6042)	2:161:B:ILE:HD11	2:159:B:PHE:HD1	19	0.39	0.14	0.37
(1,6042)	2:161:B:ILE:HD11	2:159:B:PHE:HD2	19	0.39	0.14	0.37
(1,6042)	2:161:B:ILE:HD12	2:159:B:PHE:HD1	19	0.39	0.14	0.37
(1,6042)	2:161:B:ILE:HD13	2:159:B:PHE:HD2	19	0.39	0.14	0.37
(1,6042)	2:161:B:ILE:HD13	2:159:B:PHE:HD1	19	0.39	0.14	0.37
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	19	0.38	0.1	0.36
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	19	0.37	0.11	0.39
(1,3877)	2:163:B:PHE:HE1	2:153:B:LYS:HB3	19	0.37	0.11	0.39
(1,3877)	2:163:B:PHE:HE2	2:153:B:LYS:HB3	19	0.37	0.11	0.39
(1,5267)	2:229:B:LEU:HA	2:244:B:LEU:HD22	19	0.35	0.1	0.38
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD21	19	0.35	0.1	0.38
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD22	19	0.35	0.1	0.38
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD23	19	0.35	0.1	0.38
(1,5267)	2:229:B:LEU:HA	2:244:B:LEU:HD21	19	0.35	0.1	0.38
(1,5267)	2:229:B:LEU:HA	2:244:B:LEU:HD23	19	0.35	0.1	0.38
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	19	0.34	0.14	0.31
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD13	19	0.34	0.09	0.33
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD11	19	0.34	0.09	0.33
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD12	19	0.34	0.09	0.33
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	19	0.33	0.06	0.34

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD22	19	0.33	0.09	0.35
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD21	19	0.33	0.09	0.35
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD23	19	0.33	0.09	0.35
(1,2339)	2:228:B:ALA:HB1	2:227:B:ILE:HA	19	0.33	0.01	0.33
(1,2339)	2:228:B:ALA:HB3	2:227:B:ILE:HA	19	0.33	0.01	0.33
(1,2339)	2:228:B:ALA:HB2	2:227:B:ILE:HA	19	0.33	0.01	0.33
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	19	0.33	0.13	0.31
(1,1796)	2:201:B:LYS:HE2	2:200:B:ASN:H	19	0.33	0.13	0.31
(1,5432)	2:195:B:ASN:H	2:196:B:ALA:HB3	19	0.31	0.08	0.31
(1,5432)	2:195:B:ASN:H	2:196:B:ALA:HB2	19	0.31	0.08	0.31
(1,5432)	2:200:B:ASN:H	2:196:B:ALA:HB2	19	0.31	0.08	0.31
(1,5432)	2:195:B:ASN:H	2:196:B:ALA:HB1	19	0.31	0.08	0.31
(1,5432)	2:200:B:ASN:H	2:196:B:ALA:HB1	19	0.31	0.08	0.31
(1,5432)	2:200:B:ASN:H	2:196:B:ALA:HB3	19	0.31	0.08	0.31
(1,189)	1:6:A:ILE:HD12	1:7:A:ILE:H	19	0.31	0.07	0.3
(1,189)	1:6:A:ILE:HD13	1:7:A:ILE:H	19	0.31	0.07	0.3
(1,189)	1:6:A:ILE:HD11	1:7:A:ILE:H	19	0.31	0.07	0.3
(1,2139)	2:219:B:ILE:H	2:219:B:ILE:HD12	19	0.3	0.09	0.3
(1,2139)	2:159:B:PHE:HD1	2:161:B:ILE:HD11	19	0.3	0.09	0.3
(1,2139)	2:219:B:ILE:H	2:219:B:ILE:HD13	19	0.3	0.09	0.3
(1,2139)	2:159:B:PHE:HD2	2:161:B:ILE:HD12	19	0.3	0.09	0.3
(1,2139)	2:159:B:PHE:HD2	2:161:B:ILE:HD11	19	0.3	0.09	0.3
(1,2139)	2:219:B:ILE:H	2:219:B:ILE:HD11	19	0.3	0.09	0.3
(1,2139)	2:159:B:PHE:HD1	2:161:B:ILE:HD12	19	0.3	0.09	0.3
(1,2564)	1:33:A:MET:H	1:31:A:LYS:HA	19	0.3	0.08	0.31
(1,2564)	2:190:B:ASP:H	2:186:B:MET:HA	19	0.3	0.08	0.31
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD12	19	0.3	0.08	0.32
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD13	19	0.3	0.08	0.32
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD11	19	0.3	0.08	0.32
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	19	0.3	0.09	0.29
(1,1513)	2:227:B:ILE:HD11	2:224:B:LYS:H	19	0.29	0.13	0.27
(1,1513)	2:227:B:ILE:HD12	2:224:B:LYS:H	19	0.29	0.13	0.27
(1,1513)	2:227:B:ILE:HD13	2:224:B:LYS:H	19	0.29	0.13	0.27
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD11	19	0.28	0.02	0.28
(1,2317)	1:29:A:ARG:HG2	1:10:A:ILE:HD11	19	0.28	0.02	0.28
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD12	19	0.28	0.02	0.28
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD13	19	0.28	0.02	0.28
(1,278)	2:187:B:LEU:HD13	2:196:B:ALA:H	19	0.28	0.06	0.28
(1,278)	2:187:B:LEU:HD12	2:196:B:ALA:H	19	0.28	0.06	0.28
(1,278)	2:187:B:LEU:HD11	2:196:B:ALA:H	19	0.28	0.06	0.28
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD23	19	0.27	0.06	0.28
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD21	19	0.27	0.06	0.28

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD22	19	0.27	0.06	0.28
(1,1521)	1:6:A:ILE:HG23	1:37:A:GLN:H	19	0.26	0.08	0.25
(1,1521)	1:7:A:ILE:HG21	1:37:A:GLN:H	19	0.26	0.08	0.25
(1,1521)	1:6:A:ILE:HG21	1:37:A:GLN:H	19	0.26	0.08	0.25
(1,1521)	1:7:A:ILE:HG23	1:37:A:GLN:H	19	0.26	0.08	0.25
(1,1521)	1:7:A:ILE:HG22	1:37:A:GLN:H	19	0.26	0.08	0.25
(1,1521)	1:6:A:ILE:HG22	1:37:A:GLN:H	19	0.26	0.08	0.25
(1,2505)	2:181:B:ILE:H	2:178:B:GLN:HA	19	0.26	0.05	0.27
(1,2505)	2:195:B:ASN:H	2:191:B:GLU:HA	19	0.26	0.05	0.27
(1,1452)	2:145:B:ALA:HB1	2:147:B:GLU:H	19	0.24	0.06	0.26
(1,1452)	2:145:B:ALA:HB2	2:147:B:GLU:H	19	0.24	0.06	0.26
(1,1452)	2:145:B:ALA:HB3	2:147:B:GLU:H	19	0.24	0.06	0.26
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	19	0.24	0.02	0.23
(1,5892)	2:228:B:ALA:HB1	2:227:B:ILE:HG22	19	0.22	0.07	0.23
(1,5892)	2:228:B:ALA:HB3	2:227:B:ILE:HG22	19	0.22	0.07	0.23
(1,5892)	2:228:B:ALA:HB2	2:227:B:ILE:HG22	19	0.22	0.07	0.23
(1,5892)	2:228:B:ALA:HB2	2:227:B:ILE:HG21	19	0.22	0.07	0.23
(1,5892)	2:228:B:ALA:HB3	2:227:B:ILE:HG23	19	0.22	0.07	0.23
(1,5892)	2:228:B:ALA:HB1	2:227:B:ILE:HG21	19	0.22	0.07	0.23
(1,5892)	2:228:B:ALA:HB3	2:227:B:ILE:HG21	19	0.22	0.07	0.23
(1,5892)	2:228:B:ALA:HB2	2:227:B:ILE:HG23	19	0.22	0.07	0.23
(1,5892)	2:228:B:ALA:HB1	2:227:B:ILE:HG23	19	0.22	0.07	0.23
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD11	19	0.22	0.06	0.22
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD13	19	0.22	0.06	0.22
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD12	19	0.22	0.06	0.22
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD12	19	0.21	0.03	0.21
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD11	19	0.21	0.03	0.21
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD13	19	0.21	0.03	0.21
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD23	19	0.2	0.03	0.2
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD22	19	0.2	0.03	0.2
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD21	19	0.2	0.03	0.2
(1,621)	1:25:A:LEU:HD13	1:25:A:LEU:H	19	0.17	0.04	0.18
(1,621)	1:25:A:LEU:HD12	1:25:A:LEU:H	19	0.17	0.04	0.18
(1,621)	1:25:A:LEU:HD11	1:25:A:LEU:H	19	0.17	0.04	0.18
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	19	0.17	0.04	0.16
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	19	0.15	0.02	0.15
(1,3457)	2:241:B:LYS:HB2	2:238:B:ASN:HB2	18	0.65	0.21	0.63
(1,3457)	2:179:B:LEU:HB3	2:175:B:ASP:HB3	18	0.65	0.21	0.63
(1,3457)	2:174:B:ARG:HG3	2:175:B:ASP:HB2	18	0.65	0.21	0.63
(1,3457)	2:174:B:ARG:HG2	2:175:B:ASP:HB2	18	0.65	0.21	0.63
(1,258)	2:144:B:GLU:HB3	2:237:B:LEU:H	18	0.61	0.18	0.64
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	18	0.61	0.18	0.64

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD11	18	0.55	0.24	0.6
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD13	18	0.55	0.24	0.6
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD12	18	0.55	0.24	0.6
(1,4962)	2:226:B:ILE:HA	2:229:B:LEU:HD11	18	0.55	0.24	0.6
(1,4962)	2:226:B:ILE:HA	2:229:B:LEU:HD13	18	0.55	0.24	0.6
(1,5191)	1:24:A:PHE:HE1	2:244:B:LEU:HD22	18	0.54	0.15	0.53
(1,5191)	1:24:A:PHE:HE2	2:244:B:LEU:HD22	18	0.54	0.15	0.53
(1,5191)	1:24:A:PHE:HE1	2:244:B:LEU:HD23	18	0.54	0.15	0.53
(1,5191)	1:24:A:PHE:HE2	2:244:B:LEU:HD21	18	0.54	0.15	0.53
(1,5191)	1:24:A:PHE:HE2	2:244:B:LEU:HD23	18	0.54	0.15	0.53
(1,5191)	1:24:A:PHE:HE1	2:244:B:LEU:HD21	18	0.54	0.15	0.53
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG11	18	0.5	0.16	0.56
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG12	18	0.5	0.16	0.56
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG13	18	0.5	0.16	0.56
(1,3774)	1:35:A:VAL:HG22	1:9:A:GLU:HG2	18	0.47	0.09	0.46
(1,3774)	1:35:A:VAL:HG21	1:9:A:GLU:HG2	18	0.47	0.09	0.46
(1,3774)	1:35:A:VAL:HG23	1:9:A:GLU:HG2	18	0.47	0.09	0.46
(1,1643)	2:195:B:ASN:HB3	2:192:B:GLN:H	18	0.41	0.1	0.42
(1,1643)	2:211:B:LYS:HE3	2:192:B:GLN:H	18	0.41	0.1	0.42
(1,1643)	2:211:B:LYS:HE2	2:192:B:GLN:H	18	0.41	0.1	0.42
(1,5428)	2:212:B:ALA:H	2:186:B:MET:HE3	18	0.39	0.16	0.4
(1,5428)	2:212:B:ALA:H	2:193:B:MET:HE1	18	0.39	0.16	0.4
(1,5428)	2:212:B:ALA:H	2:193:B:MET:HE2	18	0.39	0.16	0.4
(1,5428)	2:212:B:ALA:H	2:193:B:MET:HE3	18	0.39	0.16	0.4
(1,5428)	1:2:A:ASN:H	1:1:A:MET:HE3	18	0.39	0.16	0.4
(1,5428)	1:2:A:ASN:H	1:1:A:MET:HE2	18	0.39	0.16	0.4
(1,5428)	2:212:B:ALA:H	2:186:B:MET:HE1	18	0.39	0.16	0.4
(1,1443)	2:179:B:LEU:HB2	2:176:B:SER:H	18	0.38	0.1	0.37
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	18	0.38	0.1	0.37
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE2	18	0.38	0.1	0.38
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE1	18	0.38	0.1	0.38
(1,6147)	1:15:A:ALA:H	1:47:A:TYR:HE1	18	0.38	0.1	0.38
(1,6147)	1:15:A:ALA:H	1:47:A:TYR:HE2	18	0.38	0.1	0.38
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	18	0.36	0.16	0.42
(1,1141)	2:214:B:VAL:HG22	2:209:B:LYS:H	18	0.35	0.1	0.36
(1,1141)	2:214:B:VAL:HG21	2:209:B:LYS:H	18	0.35	0.1	0.36
(1,1141)	2:214:B:VAL:HG23	2:209:B:LYS:H	18	0.35	0.1	0.36
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD11	18	0.35	0.15	0.32
(1,2087)	1:38:A:GLN:H	2:143:B:ILE:HD11	18	0.35	0.15	0.32
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD13	18	0.35	0.15	0.32
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD12	18	0.35	0.15	0.32
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD23	18	0.34	0.16	0.32

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD21	18	0.34	0.16	0.32
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD22	18	0.34	0.16	0.32
(1,4572)	2:230:B:CYS:HB3	2:229:B:LEU:HD22	18	0.34	0.16	0.32
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB3	18	0.34	0.12	0.36
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB1	18	0.34	0.12	0.36
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB2	18	0.34	0.12	0.36
(1,5311)	2:234:B:ARG:HD2	2:188:B:ALA:HB1	18	0.34	0.12	0.36
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG23	18	0.32	0.1	0.32
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG22	18	0.32	0.1	0.32
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG21	18	0.32	0.1	0.32
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	18	0.31	0.07	0.3
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD21	18	0.3	0.11	0.32
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD23	18	0.3	0.11	0.32
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD22	18	0.3	0.11	0.32
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD11	18	0.28	0.07	0.29
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD12	18	0.28	0.07	0.29
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD13	18	0.28	0.07	0.29
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	18	0.27	0.05	0.29
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	18	0.25	0.07	0.25
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	18	0.24	0.06	0.22
(1,2669)	2:191:B:GLU:HB2	2:191:B:GLU:HA	18	0.2	0.02	0.2
(1,2669)	2:181:B:ILE:HB	2:178:B:GLN:HA	18	0.2	0.02	0.2
(1,2669)	2:178:B:GLN:HB2	2:178:B:GLN:HA	18	0.2	0.02	0.2
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	18	0.19	0.07	0.18
(1,1918)	2:214:B:VAL:HG11	2:214:B:VAL:H	18	0.18	0.04	0.17
(1,1918)	2:214:B:VAL:HG12	2:214:B:VAL:H	18	0.18	0.04	0.17
(1,1918)	2:214:B:VAL:HG13	2:214:B:VAL:H	18	0.18	0.04	0.17
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	18	0.16	0.06	0.14
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	18	0.16	0.04	0.16
(1,4236)	2:234:B:ARG:HD3	2:234:B:ARG:HB2	18	0.16	0.03	0.16
(1,4236)	2:234:B:ARG:HD2	2:234:B:ARG:HB2	18	0.16	0.03	0.16
(1,4236)	2:245:B:GLU:HG2	2:241:B:LYS:HD2	18	0.16	0.03	0.16
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG13	17	0.75	0.16	0.82
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG11	17	0.75	0.16	0.82
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG12	17	0.75	0.16	0.82
(1,5610)	2:205:B:ARG:HD3	2:203:B:ILE:HG21	17	0.68	0.27	0.69
(1,5610)	2:205:B:ARG:HD2	2:203:B:ILE:HG22	17	0.68	0.27	0.69
(1,5610)	2:205:B:ARG:HD3	2:203:B:ILE:HG23	17	0.68	0.27	0.69
(1,5610)	2:205:B:ARG:HD2	2:203:B:ILE:HG21	17	0.68	0.27	0.69
(1,5610)	2:205:B:ARG:HD3	2:203:B:ILE:HG22	17	0.68	0.27	0.69
(1,5610)	2:205:B:ARG:HD2	2:203:B:ILE:HG23	17	0.68	0.27	0.69
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG22	17	0.56	0.4	0.55

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG23	17	0.56	0.4	0.55
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG21	17	0.56	0.4	0.55
(1,2051)	2:205:B:ARG:HB3	2:209:B:LYS:H	17	0.46	0.2	0.45
(1,2051)	2:217:B:ARG:HB3	2:221:B:ASN:H	17	0.46	0.2	0.45
(1,2051)	2:210:B:LYS:HB3	2:209:B:LYS:H	17	0.46	0.2	0.45
(1,4278)	1:17:A:VAL:HG22	1:23:A:GLU:HB2	17	0.42	0.16	0.35
(1,4278)	1:17:A:VAL:HG21	1:23:A:GLU:HB2	17	0.42	0.16	0.35
(1,4278)	1:17:A:VAL:HG23	1:23:A:GLU:HB2	17	0.42	0.16	0.35
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	17	0.41	0.08	0.39
(1,5852)	2:225:B:TYR:HE2	2:170:B:VAL:HG11	17	0.4	0.13	0.39
(1,5852)	2:225:B:TYR:HE2	2:170:B:VAL:HG12	17	0.4	0.13	0.39
(1,5852)	2:225:B:TYR:HE1	2:170:B:VAL:HG11	17	0.4	0.13	0.39
(1,5852)	2:225:B:TYR:HE1	2:170:B:VAL:HG13	17	0.4	0.13	0.39
(1,5852)	2:225:B:TYR:HE2	2:170:B:VAL:HG13	17	0.4	0.13	0.39
(1,5852)	2:225:B:TYR:HE1	2:170:B:VAL:HG12	17	0.4	0.13	0.39
(1,3739)	2:196:B:ALA:HB3	2:195:B:ASN:HB2	17	0.37	0.1	0.34
(1,3739)	2:196:B:ALA:HB1	2:195:B:ASN:HB2	17	0.37	0.1	0.34
(1,3739)	2:196:B:ALA:HB2	2:195:B:ASN:HB2	17	0.37	0.1	0.34
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	17	0.37	0.06	0.37
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	17	0.25	0.05	0.25
(1,3789)	1:26:A:ILE:HG23	1:14:A:LYS:HB3	17	0.25	0.08	0.25
(1,3789)	1:26:A:ILE:HG21	1:14:A:LYS:HB3	17	0.25	0.08	0.25
(1,3789)	1:26:A:ILE:HG22	1:14:A:LYS:HB3	17	0.25	0.08	0.25
(1,347)	2:158:B:GLU:H	2:155:B:LYS:H	17	0.24	0.07	0.24
(1,347)	2:200:B:ASN:HD21	2:197:B:LEU:H	17	0.24	0.07	0.24
(1,1078)	2:224:B:LYS:HB3	2:225:B:TYR:H	17	0.22	0.08	0.2
(1,1078)	2:237:B:LEU:HB3	2:241:B:LYS:H	17	0.22	0.08	0.2
(1,629)	2:231:B:LEU:HD11	2:230:B:CYS:H	17	0.19	0.06	0.19
(1,629)	2:231:B:LEU:HD12	2:230:B:CYS:H	17	0.19	0.06	0.19
(1,629)	2:143:B:ILE:HD13	2:142:B:ASP:H	17	0.19	0.06	0.19
(1,629)	2:231:B:LEU:HD13	2:230:B:CYS:H	17	0.19	0.06	0.19
(1,629)	2:143:B:ILE:HD11	2:142:B:ASP:H	17	0.19	0.06	0.19
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	17	0.19	0.05	0.18
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD12	17	0.17	0.04	0.17
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD13	17	0.17	0.04	0.17
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD11	17	0.17	0.04	0.17
(1,4776)	2:235:B:SER:H	2:152:B:LEU:HD11	17	0.17	0.04	0.17
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB3	17	0.17	0.04	0.17
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB2	17	0.17	0.04	0.17
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB1	17	0.17	0.04	0.17
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD13	17	0.17	0.03	0.16
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD12	17	0.17	0.03	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD11	17	0.17	0.03	0.16
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	17	0.16	0.04	0.15
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	17	0.14	0.02	0.14
(1,3716)	1:3:A:ARG:HD2	1:21:A:GLU:HG2	16	0.86	0.43	0.82
(1,3716)	1:3:A:ARG:HD2	1:21:A:GLU:HG3	16	0.86	0.43	0.82
(1,3716)	2:148:B:ASP:HB3	2:144:B:GLU:HG3	16	0.86	0.43	0.82
(1,3716)	1:3:A:ARG:HD3	1:21:A:GLU:HG3	16	0.86	0.43	0.82
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD22	16	0.55	0.23	0.6
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD21	16	0.55	0.23	0.6
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD23	16	0.55	0.23	0.6
(1,4959)	2:155:B:LYS:HE3	2:231:B:LEU:HD21	16	0.55	0.23	0.6
(1,4971)	2:157:B:GLN:HG2	2:154:B:LYS:HG3	16	0.4	0.12	0.42
(1,4971)	2:158:B:GLU:HG2	2:154:B:LYS:HG3	16	0.4	0.12	0.42
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD23	16	0.36	0.15	0.35
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD22	16	0.36	0.15	0.35
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD21	16	0.36	0.15	0.35
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	16	0.34	0.12	0.33
(1,1038)	2:182:B:ARG:HG3	2:183:B:LEU:H	16	0.32	0.08	0.32
(1,1038)	1:6:A:ILE:HG12	1:38:A:GLN:H	16	0.32	0.08	0.32
(1,4391)	1:37:A:GLN:HE21	1:7:A:ILE:HG13	16	0.3	0.14	0.31
(1,4391)	2:196:B:ALA:H	2:197:B:LEU:HD11	16	0.3	0.14	0.31
(1,6207)	1:5:A:GLY:H	2:243:B:TYR:HE1	16	0.28	0.12	0.25
(1,6207)	1:5:A:GLY:H	2:243:B:TYR:HE2	16	0.28	0.12	0.25
(1,6207)	1:6:A:ILE:H	2:243:B:TYR:HE1	16	0.28	0.12	0.25
(1,6207)	1:6:A:ILE:H	2:243:B:TYR:HE2	16	0.28	0.12	0.25
(1,1965)	2:219:B:ILE:HG21	2:220:B:GLY:H	16	0.28	0.12	0.28
(1,1965)	2:219:B:ILE:HG22	2:220:B:GLY:H	16	0.28	0.12	0.28
(1,1965)	2:219:B:ILE:HG23	2:220:B:GLY:H	16	0.28	0.12	0.28
(1,1530)	1:35:A:VAL:HG21	1:9:A:GLU:H	16	0.28	0.1	0.28
(1,1530)	1:35:A:VAL:HG23	1:9:A:GLU:H	16	0.28	0.1	0.28
(1,1530)	1:35:A:VAL:HG22	1:9:A:GLU:H	16	0.28	0.1	0.28
(1,1530)	1:15:A:ALA:HB3	1:9:A:GLU:H	16	0.28	0.1	0.28
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	16	0.27	0.1	0.28
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	16	0.27	0.09	0.3
(1,62)	2:219:B:ILE:HG22	2:205:B:ARG:H	16	0.25	0.09	0.22
(1,62)	2:219:B:ILE:HG23	2:205:B:ARG:H	16	0.25	0.09	0.22
(1,62)	2:219:B:ILE:HG21	2:205:B:ARG:H	16	0.25	0.09	0.22
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	16	0.25	0.05	0.23
(1,4893)	2:154:B:LYS:HA	2:154:B:LYS:HG3	16	0.24	0.08	0.25
(1,4893)	2:210:B:LYS:HA	2:209:B:LYS:HG3	16	0.24	0.08	0.25
(1,4893)	2:210:B:LYS:HA	2:209:B:LYS:HG2	16	0.24	0.08	0.25
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	16	0.23	0.12	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,7)	1:35:A:VAL:HG11	1:8:A:TYR:H	16	0.22	0.09	0.2
(1,7)	1:35:A:VAL:HG12	1:8:A:TYR:H	16	0.22	0.09	0.2
(1,7)	1:35:A:VAL:HG13	1:8:A:TYR:H	16	0.22	0.09	0.2
(1,4502)	2:150:B:GLU:HA	2:150:B:GLU:HB2	16	0.2	0.01	0.2
(1,4502)	2:147:B:GLU:HA	2:150:B:GLU:HB2	16	0.2	0.01	0.2
(1,1517)	2:162:B:THR:HG22	2:165:B:ASP:H	16	0.2	0.06	0.18
(1,1517)	2:162:B:THR:HG23	2:165:B:ASP:H	16	0.2	0.06	0.18
(1,1517)	2:162:B:THR:HG21	2:165:B:ASP:H	16	0.2	0.06	0.18
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	16	0.2	0.05	0.19
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG22	16	0.19	0.06	0.16
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG23	16	0.19	0.06	0.16
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG21	16	0.19	0.06	0.16
(1,5138)	2:161:B:ILE:H	2:162:B:THR:HG22	16	0.19	0.06	0.16
(1,177)	1:7:A:ILE:HD13	1:30:A:ARG:H	16	0.18	0.05	0.17
(1,177)	1:7:A:ILE:HD12	1:30:A:ARG:H	16	0.18	0.05	0.17
(1,177)	1:10:A:ILE:HG22	1:30:A:ARG:H	16	0.18	0.05	0.17
(1,177)	1:10:A:ILE:HG23	1:30:A:ARG:H	16	0.18	0.05	0.17
(1,177)	1:39:A:VAL:HG12	1:30:A:ARG:H	16	0.18	0.05	0.17
(1,177)	1:7:A:ILE:HD11	1:30:A:ARG:H	16	0.18	0.05	0.17
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE1	16	0.17	0.08	0.16
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE2	16	0.17	0.08	0.16
(1,3065)	2:146:B:ARG:HB2	2:145:B:ALA:HA	16	0.16	0.05	0.15
(1,3065)	2:144:B:GLU:HB3	2:145:B:ALA:HA	16	0.16	0.05	0.15
(1,2278)	2:179:B:LEU:HG	2:180:B:CYS:HA	16	0.16	0.04	0.15
(1,2278)	2:182:B:ARG:HG3	2:180:B:CYS:HA	16	0.16	0.04	0.15
(1,4220)	2:215:B:HIS:HB2	2:219:B:ILE:HG13	15	0.85	0.13	0.85
(1,4220)	2:146:B:ARG:HD2	1:34:A:LYS:HD3	15	0.85	0.13	0.85
(1,5640)	2:183:B:LEU:HG	2:218:B:THR:HB	15	0.76	0.14	0.74
(1,5640)	2:208:B:LEU:HG	2:218:B:THR:HB	15	0.76	0.14	0.74
(1,5640)	2:217:B:ARG:HB2	2:218:B:THR:HB	15	0.76	0.14	0.74
(1,1167)	1:25:A:LEU:HB2	1:46:A:ILE:H	15	0.64	0.16	0.66
(1,1167)	1:3:A:ARG:HG3	1:46:A:ILE:H	15	0.64	0.16	0.66
(1,3710)	2:146:B:ARG:HD2	2:150:B:GLU:HG2	15	0.53	0.24	0.5
(1,3710)	2:146:B:ARG:HD3	2:147:B:GLU:HG2	15	0.53	0.24	0.5
(1,3710)	1:28:A:ARG:HD2	1:44:A:GLU:HG2	15	0.53	0.24	0.5
(1,1739)	2:219:B:ILE:HG22	2:222:B:ASN:H	15	0.49	0.19	0.48
(1,1739)	2:219:B:ILE:HG21	2:222:B:ASN:H	15	0.49	0.19	0.48
(1,1739)	2:219:B:ILE:HG23	2:222:B:ASN:H	15	0.49	0.19	0.48
(1,1739)	2:183:B:LEU:HD11	2:222:B:ASN:H	15	0.49	0.19	0.48
(1,971)	2:210:B:LYS:HE2	2:211:B:LYS:H	15	0.43	0.18	0.39
(1,971)	2:210:B:LYS:HE3	2:211:B:LYS:H	15	0.43	0.18	0.39
(1,971)	2:213:B:LYS:HE2	2:211:B:LYS:H	15	0.43	0.18	0.39

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD2	15	0.43	0.21	0.35
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD3	15	0.43	0.21	0.35
(1,2300)	1:23:A:GLU:HG3	2:181:B:ILE:HD13	15	0.42	0.19	0.39
(1,2300)	2:177:B:ARG:HG2	2:181:B:ILE:HD11	15	0.42	0.19	0.39
(1,2300)	2:177:B:ARG:HG2	2:181:B:ILE:HD13	15	0.42	0.19	0.39
(1,2300)	1:23:A:GLU:HG3	2:181:B:ILE:HD12	15	0.42	0.19	0.39
(1,2300)	2:177:B:ARG:HG2	2:181:B:ILE:HD12	15	0.42	0.19	0.39
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE1	15	0.37	0.16	0.32
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE2	15	0.37	0.16	0.32
(1,1674)	2:158:B:GLU:HG2	2:159:B:PHE:H	15	0.34	0.1	0.32
(1,1674)	2:201:B:LYS:HE3	2:159:B:PHE:H	15	0.34	0.1	0.32
(1,4684)	2:232:B:ILE:HG22	2:237:B:LEU:HD21	15	0.3	0.14	0.31
(1,4684)	2:149:B:ILE:HD12	2:237:B:LEU:HD23	15	0.3	0.14	0.31
(1,4684)	2:232:B:ILE:HG23	2:237:B:LEU:HD23	15	0.3	0.14	0.31
(1,4684)	2:232:B:ILE:HG23	2:237:B:LEU:HD21	15	0.3	0.14	0.31
(1,4684)	2:149:B:ILE:HD11	2:237:B:LEU:HD22	15	0.3	0.14	0.31
(1,4684)	2:149:B:ILE:HD13	2:237:B:LEU:HD23	15	0.3	0.14	0.31
(1,4684)	2:232:B:ILE:HG22	2:237:B:LEU:HD22	15	0.3	0.14	0.31
(1,4684)	2:149:B:ILE:HD13	2:237:B:LEU:HD22	15	0.3	0.14	0.31
(1,4684)	2:232:B:ILE:HG21	2:237:B:LEU:HD23	15	0.3	0.14	0.31
(1,4266)	2:219:B:ILE:HG22	2:223:B:ARG:HB3	15	0.29	0.09	0.27
(1,4266)	1:14:A:LYS:HG3	1:11:A:GLN:HB3	15	0.29	0.09	0.27
(1,4266)	2:219:B:ILE:HG21	2:223:B:ARG:HB3	15	0.29	0.09	0.27
(1,4266)	2:143:B:ILE:HD13	2:141:B:GLU:HB3	15	0.29	0.09	0.27
(1,4266)	2:219:B:ILE:HG23	2:223:B:ARG:HB3	15	0.29	0.09	0.27
(1,1080)	2:144:B:GLU:HB3	2:143:B:ILE:H	15	0.27	0.12	0.24
(1,1463)	2:191:B:GLU:HB2	2:195:B:ASN:H	15	0.26	0.14	0.21
(1,1514)	2:181:B:ILE:HD12	2:244:B:LEU:H	15	0.25	0.09	0.26
(1,1514)	2:181:B:ILE:HD13	2:244:B:LEU:H	15	0.25	0.09	0.26
(1,1514)	2:181:B:ILE:HD11	2:244:B:LEU:H	15	0.25	0.09	0.26
(1,2023)	1:16:A:VAL:HG23	1:9:A:GLU:H	15	0.24	0.08	0.21
(1,2023)	1:16:A:VAL:HG21	1:9:A:GLU:H	15	0.24	0.08	0.21
(1,2023)	1:16:A:VAL:HG22	1:9:A:GLU:H	15	0.24	0.08	0.21
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG23	15	0.24	0.08	0.21
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG21	15	0.24	0.08	0.21
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG22	15	0.24	0.08	0.21
(1,5753)	2:166:B:LEU:HD13	2:228:B:ALA:HA	15	0.23	0.09	0.22
(1,5753)	2:166:B:LEU:HD11	2:228:B:ALA:HA	15	0.23	0.09	0.22
(1,5753)	2:166:B:LEU:HD12	2:228:B:ALA:HA	15	0.23	0.09	0.22
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD22	15	0.23	0.11	0.21
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD23	15	0.23	0.11	0.21
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD21	15	0.23	0.11	0.21

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4418)	2:233:B:PHE:HE2	2:185:B:LYS:HD2	15	0.2	0.06	0.19
(1,4418)	2:233:B:PHE:HE1	2:185:B:LYS:HD2	15	0.2	0.06	0.19
(1,3084)	2:149:B:ILE:HG12	2:145:B:ALA:HA	15	0.16	0.04	0.17
(1,571)	2:234:B:ARG:HG2	2:233:B:PHE:H	15	0.12	0.01	0.12
(1,4643)	2:167:B:VAL:HG11	2:168:B:LEU:HG	14	0.41	0.13	0.38
(1,4643)	2:167:B:VAL:HG13	2:168:B:LEU:HG	14	0.41	0.13	0.38
(1,4643)	2:167:B:VAL:HG12	2:168:B:LEU:HG	14	0.41	0.13	0.38
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD21	14	0.36	0.16	0.37
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD23	14	0.36	0.16	0.37
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD22	14	0.36	0.16	0.37
(1,5315)	2:179:B:LEU:HB2	2:218:B:THR:HG21	14	0.35	0.16	0.37
(1,5315)	2:179:B:LEU:HB2	2:218:B:THR:HG22	14	0.35	0.16	0.37
(1,5315)	2:226:B:ILE:HG13	2:218:B:THR:HG21	14	0.35	0.16	0.37
(1,5315)	2:226:B:ILE:HG13	2:218:B:THR:HG22	14	0.35	0.16	0.37
(1,5315)	2:179:B:LEU:HB2	2:218:B:THR:HG23	14	0.35	0.16	0.37
(1,5315)	2:183:B:LEU:HB2	2:218:B:THR:HG23	14	0.35	0.16	0.37
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG21	14	0.34	0.14	0.34
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG22	14	0.34	0.14	0.34
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG23	14	0.34	0.14	0.34
(1,1543)	1:17:A:VAL:HG12	1:9:A:GLU:H	14	0.28	0.13	0.22
(1,1543)	1:17:A:VAL:HG13	1:9:A:GLU:H	14	0.28	0.13	0.22
(1,1543)	1:17:A:VAL:HG11	1:9:A:GLU:H	14	0.28	0.13	0.22
(1,3669)	2:248:B:THR:HB	2:245:B:GLU:HG2	14	0.26	0.11	0.26
(1,2719)	2:237:B:LEU:HD12	2:146:B:ARG:HA	14	0.25	0.09	0.24
(1,2719)	2:237:B:LEU:HD13	2:146:B:ARG:HA	14	0.25	0.09	0.24
(1,2719)	2:237:B:LEU:HD11	2:146:B:ARG:HA	14	0.25	0.09	0.24
(1,1130)	2:239:B:LEU:HD13	2:243:B:TYR:H	14	0.24	0.06	0.24
(1,1130)	2:239:B:LEU:HD12	2:243:B:TYR:H	14	0.24	0.06	0.24
(1,1130)	2:239:B:LEU:HD11	2:243:B:TYR:H	14	0.24	0.06	0.24
(1,2896)	2:166:B:LEU:HB3	1:24:A:PHE:HA	14	0.23	0.09	0.2
(1,2896)	2:170:B:VAL:HG12	1:24:A:PHE:HA	14	0.23	0.09	0.2
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD13	14	0.2	0.05	0.19
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD12	14	0.2	0.05	0.19
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD11	14	0.2	0.05	0.19
(1,5661)	2:187:B:LEU:HG	2:203:B:ILE:HG23	14	0.19	0.05	0.2
(1,5661)	2:227:B:ILE:HG12	2:203:B:ILE:HG22	14	0.19	0.05	0.2
(1,5661)	2:193:B:MET:HE3	2:203:B:ILE:HG22	14	0.19	0.05	0.2
(1,5661)	2:187:B:LEU:HG	2:203:B:ILE:HG22	14	0.19	0.05	0.2
(1,5661)	2:208:B:LEU:HG	2:203:B:ILE:HG22	14	0.19	0.05	0.2
(1,5661)	2:187:B:LEU:HG	2:203:B:ILE:HG21	14	0.19	0.05	0.2
(1,5661)	2:227:B:ILE:HG12	2:203:B:ILE:HG23	14	0.19	0.05	0.2
(1,5661)	2:208:B:LEU:HG	2:203:B:ILE:HG21	14	0.19	0.05	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3067)	2:146:B:ARG:HB3	2:145:B:ALA:HA	14	0.18	0.04	0.17
(1,2582)	2:178:B:GLN:HE22	2:178:B:GLN:HA	14	0.16	0.04	0.16
(1,942)	2:246:B:TYR:HB2	2:246:B:TYR:H	14	0.13	0.02	0.13
(1,3580)	2:151:B:GLU:H	2:151:B:GLU:HG2	13	0.7	0.16	0.72
(1,3580)	2:151:B:GLU:H	2:151:B:GLU:HG3	13	0.7	0.16	0.72
(1,3580)	2:236:B:ASN:HD21	2:151:B:GLU:HG2	13	0.7	0.16	0.72
(1,3580)	2:236:B:ASN:HD21	2:151:B:GLU:HG3	13	0.7	0.16	0.72
(1,1529)	2:181:B:ILE:HD11	1:21:A:GLU:H	13	0.41	0.15	0.42
(1,1529)	2:181:B:ILE:HD13	1:21:A:GLU:H	13	0.41	0.15	0.42
(1,1529)	2:181:B:ILE:HD12	1:21:A:GLU:H	13	0.41	0.15	0.42
(1,1529)	1:18:A:LEU:HB2	1:21:A:GLU:H	13	0.41	0.15	0.42
(1,5629)	2:150:B:GLU:HG2	2:149:B:ILE:HG22	13	0.36	0.14	0.36
(1,5629)	2:150:B:GLU:HG2	2:149:B:ILE:HG21	13	0.36	0.14	0.36
(1,5629)	2:150:B:GLU:HG2	2:149:B:ILE:HG23	13	0.36	0.14	0.36
(1,4261)	1:34:A:LYS:HG2	1:37:A:GLN:HB2	13	0.32	0.13	0.3
(1,4261)	1:34:A:LYS:HG3	1:37:A:GLN:HB2	13	0.32	0.13	0.3
(1,5361)	2:244:B:LEU:HG	1:18:A:LEU:HD13	13	0.32	0.13	0.32
(1,5361)	2:244:B:LEU:HG	1:18:A:LEU:HD12	13	0.32	0.13	0.32
(1,5361)	2:244:B:LEU:HG	1:18:A:LEU:HD11	13	0.32	0.13	0.32
(1,957)	2:195:B:ASN:HB3	2:199:B:LYS:H	13	0.31	0.15	0.36
(1,957)	2:199:B:LYS:HE2	2:199:B:LYS:H	13	0.31	0.15	0.36
(1,957)	2:199:B:LYS:HE3	2:199:B:LYS:H	13	0.31	0.15	0.36
(1,6236)	1:6:A:ILE:HG22	1:8:A:TYR:HE2	13	0.29	0.12	0.29
(1,6236)	1:6:A:ILE:HG21	1:8:A:TYR:HE1	13	0.29	0.12	0.29
(1,6236)	1:6:A:ILE:HG23	1:8:A:TYR:HE2	13	0.29	0.12	0.29
(1,6236)	1:6:A:ILE:HG23	1:8:A:TYR:HE1	13	0.29	0.12	0.29
(1,6236)	1:6:A:ILE:HG22	1:8:A:TYR:HE1	13	0.29	0.12	0.29
(1,3963)	1:32:A:ASP:HB3	1:33:A:MET:HG3	13	0.29	0.08	0.28
(1,2422)	1:24:A:PHE:HD1	2:225:B:TYR:HA	13	0.28	0.09	0.27
(1,2422)	1:24:A:PHE:HD2	2:225:B:TYR:HA	13	0.28	0.09	0.27
(1,2422)	2:225:B:TYR:HE2	2:225:B:TYR:HA	13	0.28	0.09	0.27
(1,4497)	1:23:A:GLU:HA	1:25:A:LEU:HD11	13	0.27	0.18	0.24
(1,4497)	1:23:A:GLU:HA	1:25:A:LEU:HD13	13	0.27	0.18	0.24
(1,4497)	1:23:A:GLU:HA	1:25:A:LEU:HD12	13	0.27	0.18	0.24
(1,4497)	1:43:A:ASN:HA	1:25:A:LEU:HD12	13	0.27	0.18	0.24
(1,4713)	2:144:B:GLU:H	2:239:B:LEU:HD21	13	0.26	0.11	0.21
(1,4713)	2:144:B:GLU:H	2:239:B:LEU:HD23	13	0.26	0.11	0.21
(1,4713)	2:144:B:GLU:H	2:239:B:LEU:HD22	13	0.26	0.11	0.21
(1,1365)	2:223:B:ARG:HD2	2:224:B:LYS:H	13	0.25	0.1	0.21
(1,1365)	2:223:B:ARG:HD3	2:224:B:LYS:H	13	0.25	0.1	0.21
(1,3697)	2:207:B:GLU:HA	2:207:B:GLU:HG3	13	0.24	0.08	0.23
(1,3697)	2:150:B:GLU:HA	2:150:B:GLU:HG3	13	0.24	0.08	0.23

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1049)	2:242:B:ARG:HG3	2:243:B:TYR:H	13	0.24	0.07	0.25
(1,4994)	1:7:A:ILE:HB	1:35:A:VAL:HG21	13	0.23	0.08	0.22
(1,4994)	1:7:A:ILE:HB	1:35:A:VAL:HG23	13	0.23	0.08	0.22
(1,4994)	1:7:A:ILE:HB	1:35:A:VAL:HG22	13	0.23	0.08	0.22
(1,172)	1:35:A:VAL:HG12	2:146:B:ARG:H	13	0.2	0.08	0.17
(1,172)	1:35:A:VAL:HG13	2:146:B:ARG:H	13	0.2	0.08	0.17
(1,172)	1:35:A:VAL:HG11	2:146:B:ARG:H	13	0.2	0.08	0.17
(1,2184)	2:152:B:LEU:HA	2:149:B:ILE:HA	13	0.18	0.05	0.2
(1,2658)	2:155:B:LYS:HG2	2:155:B:LYS:HA	13	0.18	0.07	0.15
(1,2658)	2:154:B:LYS:HG3	2:155:B:LYS:HA	13	0.18	0.07	0.15
(1,4340)	2:197:B:LEU:H	2:197:B:LEU:HD13	13	0.14	0.02	0.14
(1,4340)	2:197:B:LEU:H	2:197:B:LEU:HD12	13	0.14	0.02	0.14
(1,4340)	2:197:B:LEU:H	2:197:B:LEU:HD11	13	0.14	0.02	0.14
(1,3102)	2:193:B:MET:HG3	2:204:B:PRO:HD2	12	0.4	0.17	0.42
(1,3102)	2:207:B:GLU:HG3	2:204:B:PRO:HD2	12	0.4	0.17	0.42
(1,5542)	2:197:B:LEU:HA	2:198:B:MET:HE2	12	0.4	0.2	0.4
(1,5542)	2:197:B:LEU:HA	2:198:B:MET:HE1	12	0.4	0.2	0.4
(1,5542)	1:2:A:ASN:HA	1:1:A:MET:HE3	12	0.4	0.2	0.4
(1,5542)	2:197:B:LEU:HA	2:198:B:MET:HE3	12	0.4	0.2	0.4
(1,5542)	1:2:A:ASN:HA	1:1:A:MET:HE1	12	0.4	0.2	0.4
(1,5542)	1:2:A:ASN:HA	1:1:A:MET:HE2	12	0.4	0.2	0.4
(1,5840)	2:147:B:GLU:HG3	2:145:B:ALA:HB1	12	0.29	0.07	0.28
(1,5840)	2:204:B:PRO:HG2	2:196:B:ALA:HB2	12	0.29	0.07	0.28
(1,5840)	2:147:B:GLU:HG3	2:145:B:ALA:HB3	12	0.29	0.07	0.28
(1,5840)	2:147:B:GLU:HG3	2:145:B:ALA:HB2	12	0.29	0.07	0.28
(1,5840)	2:204:B:PRO:HG2	2:196:B:ALA:HB3	12	0.29	0.07	0.28
(1,5840)	2:204:B:PRO:HG2	2:196:B:ALA:HB1	12	0.29	0.07	0.28
(1,5372)	1:26:A:ILE:HD12	2:167:B:VAL:HG12	12	0.28	0.13	0.3
(1,5372)	1:26:A:ILE:HD13	2:167:B:VAL:HG13	12	0.28	0.13	0.3
(1,5372)	1:26:A:ILE:HD13	2:167:B:VAL:HG12	12	0.28	0.13	0.3
(1,5372)	1:26:A:ILE:HD11	2:167:B:VAL:HG13	12	0.28	0.13	0.3
(1,5372)	1:26:A:ILE:HD12	2:167:B:VAL:HG11	12	0.28	0.13	0.3
(1,5372)	1:26:A:ILE:HD11	2:167:B:VAL:HG12	12	0.28	0.13	0.3
(1,3529)	1:43:A:ASN:H	1:42:A:GLU:HG2	12	0.28	0.11	0.27
(1,3529)	1:44:A:GLU:H	1:42:A:GLU:HG2	12	0.28	0.11	0.27
(1,5853)	2:169:B:ASN:HB3	2:166:B:LEU:HD22	12	0.27	0.12	0.26
(1,5853)	2:169:B:ASN:HB3	2:166:B:LEU:HD23	12	0.27	0.12	0.26
(1,5853)	2:169:B:ASN:HB3	2:166:B:LEU:HD21	12	0.27	0.12	0.26
(1,3393)	1:14:A:LYS:HA	1:14:A:LYS:HE3	12	0.26	0.03	0.26
(1,5769)	2:211:B:LYS:HD2	2:212:B:ALA:HA	12	0.24	0.08	0.22
(1,5769)	2:211:B:LYS:HD3	2:212:B:ALA:HA	12	0.24	0.08	0.22
(1,3929)	2:228:B:ALA:HA	2:155:B:LYS:HB3	12	0.22	0.09	0.19

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3929)	2:170:B:VAL:HA	1:49:A:VAL:HB	12	0.22	0.09	0.19
(1,2413)	1:9:A:GLU:H	1:7:A:ILE:HA	12	0.21	0.08	0.16
(1,2413)	2:233:B:PHE:HE2	2:230:B:CYS:HA	12	0.21	0.08	0.16
(1,2413)	2:233:B:PHE:HE1	2:230:B:CYS:HA	12	0.21	0.08	0.16
(1,4478)	1:34:A:LYS:HA	1:7:A:ILE:HG12	12	0.2	0.06	0.22
(1,4478)	1:10:A:ILE:HA	1:7:A:ILE:HG12	12	0.2	0.06	0.22
(1,3240)	2:194:B:TYR:HB3	2:190:B:ASP:HB3	12	0.2	0.06	0.22
(1,6117)	2:149:B:ILE:HG22	1:8:A:TYR:HD1	12	0.2	0.06	0.19
(1,6117)	2:149:B:ILE:HG21	1:8:A:TYR:HD2	12	0.2	0.06	0.19
(1,6117)	2:149:B:ILE:HG23	1:8:A:TYR:HD2	12	0.2	0.06	0.19
(1,6117)	2:149:B:ILE:HG22	1:8:A:TYR:HD2	12	0.2	0.06	0.19
(1,5877)	2:237:B:LEU:HB2	2:236:B:ASN:HA	12	0.19	0.09	0.16
(1,5877)	2:241:B:LYS:HD2	2:236:B:ASN:HA	12	0.19	0.09	0.16
(1,4892)	2:210:B:LYS:HA	2:210:B:LYS:HG2	12	0.19	0.06	0.22
(1,4892)	2:211:B:LYS:HA	2:210:B:LYS:HG3	12	0.19	0.06	0.22
(1,4892)	2:210:B:LYS:HA	2:210:B:LYS:HG3	12	0.19	0.06	0.22
(1,555)	2:193:B:MET:HB3	2:194:B:TYR:H	12	0.19	0.09	0.14
(1,1042)	2:164:B:LEU:HB2	2:163:B:PHE:H	12	0.17	0.05	0.16
(1,5608)	1:36:A:GLY:HA2	1:6:A:ILE:HG21	12	0.17	0.05	0.16
(1,5608)	1:36:A:GLY:HA2	1:6:A:ILE:HG22	12	0.17	0.05	0.16
(1,5608)	1:36:A:GLY:HA2	1:6:A:ILE:HG23	12	0.17	0.05	0.16
(1,245)	1:11:A:GLN:HG3	1:15:A:ALA:H	12	0.17	0.05	0.16
(1,1705)	2:219:B:ILE:HG13	2:222:B:ASN:HD21	11	0.95	0.31	1.03
(1,1705)	2:217:B:ARG:HG2	2:222:B:ASN:HD21	11	0.95	0.31	1.03
(1,1705)	2:217:B:ARG:HG3	2:222:B:ASN:HD21	11	0.95	0.31	1.03
(1,1705)	2:223:B:ARG:HG2	2:222:B:ASN:HD21	11	0.95	0.31	1.03
(1,1991)	1:25:A:LEU:HD12	1:49:A:VAL:H	11	0.69	0.28	0.67
(1,1991)	1:25:A:LEU:HD11	1:49:A:VAL:H	11	0.69	0.28	0.67
(1,1991)	1:26:A:ILE:HD11	1:49:A:VAL:H	11	0.69	0.28	0.67
(1,1991)	1:26:A:ILE:HD13	1:49:A:VAL:H	11	0.69	0.28	0.67
(1,1991)	1:26:A:ILE:HD12	1:49:A:VAL:H	11	0.69	0.28	0.67
(1,4546)	1:43:A:ASN:HB3	1:44:A:GLU:HB2	11	0.57	0.29	0.67
(1,4546)	1:43:A:ASN:HB3	1:44:A:GLU:HB3	11	0.57	0.29	0.67
(1,4546)	1:43:A:ASN:HB2	1:44:A:GLU:HB2	11	0.57	0.29	0.67
(1,4993)	1:14:A:LYS:HE2	2:164:B:LEU:HD13	11	0.52	0.19	0.58
(1,4993)	1:14:A:LYS:HE2	2:164:B:LEU:HD11	11	0.52	0.19	0.58
(1,4993)	1:14:A:LYS:HE2	2:164:B:LEU:HD12	11	0.52	0.19	0.58
(1,127)	1:28:A:ARG:HD3	1:29:A:ARG:H	11	0.49	0.2	0.55
(1,4957)	2:230:B:CYS:HB2	2:208:B:LEU:HD11	11	0.37	0.1	0.36
(1,4957)	2:230:B:CYS:HB2	2:208:B:LEU:HD13	11	0.37	0.1	0.36
(1,4957)	2:230:B:CYS:HB2	2:208:B:LEU:HD12	11	0.37	0.1	0.36
(1,4592)	2:142:B:ASP:HB2	2:143:B:ILE:HG13	11	0.37	0.15	0.34

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4592)	2:180:B:CYS:HB2	2:179:B:LEU:HD13	11	0.37	0.15	0.34
(1,4801)	2:214:B:VAL:H	2:213:B:LYS:HD3	11	0.35	0.12	0.34
(1,4801)	2:214:B:VAL:H	2:213:B:LYS:HD2	11	0.35	0.12	0.34
(1,4801)	2:159:B:PHE:HZ	2:155:B:LYS:HG3	11	0.35	0.12	0.34
(1,5746)	2:189:B:GLU:HB2	2:185:B:LYS:HA	11	0.31	0.16	0.28
(1,4808)	2:210:B:LYS:H	2:211:B:LYS:HG3	11	0.29	0.17	0.29
(1,4808)	2:214:B:VAL:H	2:213:B:LYS:HG3	11	0.29	0.17	0.29
(1,4808)	2:214:B:VAL:H	2:213:B:LYS:HG2	11	0.29	0.17	0.29
(1,4786)	2:159:B:PHE:H	2:231:B:LEU:HD22	11	0.26	0.12	0.23
(1,4786)	2:159:B:PHE:H	2:231:B:LEU:HD23	11	0.26	0.12	0.23
(1,4786)	2:159:B:PHE:H	2:231:B:LEU:HD21	11	0.26	0.12	0.23
(1,4259)	2:143:B:ILE:HG23	1:37:A:GLN:HB3	11	0.21	0.05	0.2
(1,4259)	1:7:A:ILE:HD13	1:37:A:GLN:HB3	11	0.21	0.05	0.2
(1,4259)	2:143:B:ILE:HG21	1:37:A:GLN:HB3	11	0.21	0.05	0.2
(1,4259)	2:143:B:ILE:HG22	1:37:A:GLN:HB3	11	0.21	0.05	0.2
(1,4259)	1:7:A:ILE:HD11	1:37:A:GLN:HB3	11	0.21	0.05	0.2
(1,2116)	2:143:B:ILE:H	2:143:B:ILE:HD12	11	0.21	0.07	0.19
(1,2116)	2:143:B:ILE:H	2:143:B:ILE:HD13	11	0.21	0.07	0.19
(1,2116)	2:143:B:ILE:H	2:143:B:ILE:HD11	11	0.21	0.07	0.19
(1,168)	2:143:B:ILE:HG12	2:144:B:GLU:H	11	0.19	0.06	0.2
(1,1626)	2:223:B:ARG:HA	2:226:B:ILE:H	11	0.18	0.05	0.18
(1,1626)	2:177:B:ARG:HA	2:180:B:CYS:H	11	0.18	0.05	0.18
(1,4409)	1:9:A:GLU:H	1:7:A:ILE:HG12	11	0.16	0.04	0.15
(1,4410)	1:9:A:GLU:H	1:7:A:ILE:HG12	11	0.16	0.04	0.15
(1,5864)	2:187:B:LEU:HA	2:186:B:MET:HG3	11	0.16	0.04	0.16
(1,5864)	2:183:B:LEU:HA	2:186:B:MET:HG3	11	0.16	0.04	0.16
(1,3103)	1:14:A:LYS:HB2	1:15:A:ALA:HA	11	0.13	0.03	0.12
(1,4989)	1:14:A:LYS:HE2	2:164:B:LEU:HD21	10	0.42	0.21	0.42
(1,4989)	1:14:A:LYS:HE2	2:164:B:LEU:HD22	10	0.42	0.21	0.42
(1,4989)	2:167:B:VAL:HB	2:164:B:LEU:HD22	10	0.42	0.21	0.42
(1,4989)	2:167:B:VAL:HB	2:164:B:LEU:HD21	10	0.42	0.21	0.42
(1,4989)	2:167:B:VAL:HB	2:164:B:LEU:HD23	10	0.42	0.21	0.42
(1,4989)	1:14:A:LYS:HE2	2:164:B:LEU:HD23	10	0.42	0.21	0.42
(1,4838)	2:178:B:GLN:HE21	2:248:B:THR:HG22	10	0.34	0.16	0.3
(1,4838)	2:178:B:GLN:HE21	2:248:B:THR:HG21	10	0.34	0.16	0.3
(1,4838)	2:178:B:GLN:HE21	2:248:B:THR:HG23	10	0.34	0.16	0.3
(1,5914)	1:18:A:LEU:HD23	2:240:B:SER:HB2	10	0.34	0.17	0.32
(1,5914)	1:18:A:LEU:HD23	1:7:A:ILE:HA	10	0.34	0.17	0.32
(1,5914)	1:18:A:LEU:HD22	2:240:B:SER:HB3	10	0.34	0.17	0.32
(1,5914)	1:18:A:LEU:HD21	2:240:B:SER:HB3	10	0.34	0.17	0.32
(1,5914)	1:18:A:LEU:HD21	2:240:B:SER:HB2	10	0.34	0.17	0.32
(1,5914)	1:18:A:LEU:HD22	1:7:A:ILE:HA	10	0.34	0.17	0.32

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5914)	1:18:A:LEU:HD22	2:240:B:SER:HB2	10	0.34	0.17	0.32
(1,3942)	1:34:A:LYS:HE3	1:37:A:GLN:HG2	10	0.32	0.23	0.19
(1,3942)	1:34:A:LYS:HE2	1:37:A:GLN:HG2	10	0.32	0.23	0.19
(1,3942)	2:211:B:LYS:HE3	2:192:B:GLN:HG2	10	0.32	0.23	0.19
(1,1519)	2:168:B:LEU:HD13	2:165:B:ASP:H	10	0.26	0.06	0.26
(1,1519)	2:168:B:LEU:HD12	2:165:B:ASP:H	10	0.26	0.06	0.26
(1,1519)	2:166:B:LEU:HB2	2:165:B:ASP:H	10	0.26	0.06	0.26
(1,1519)	2:168:B:LEU:HD11	2:165:B:ASP:H	10	0.26	0.06	0.26
(1,6192)	2:188:B:ALA:HB1	2:194:B:TYR:HE1	10	0.25	0.11	0.24
(1,6192)	2:188:B:ALA:HB2	2:194:B:TYR:HE1	10	0.25	0.11	0.24
(1,6192)	2:188:B:ALA:HB3	2:194:B:TYR:HE2	10	0.25	0.11	0.24
(1,6192)	2:197:B:LEU:HG	2:194:B:TYR:HE1	10	0.25	0.11	0.24
(1,6192)	2:188:B:ALA:HB3	2:194:B:TYR:HE1	10	0.25	0.11	0.24
(1,2667)	2:161:B:ILE:HG12	2:224:B:LYS:HA	10	0.24	0.09	0.24
(1,2667)	2:223:B:ARG:HG3	2:224:B:LYS:HA	10	0.24	0.09	0.24
(1,3695)	2:189:B:GLU:HA	2:189:B:GLU:HG3	10	0.24	0.02	0.24
(1,576)	2:210:B:LYS:HG2	2:207:B:GLU:H	10	0.24	0.07	0.24
(1,576)	2:208:B:LEU:HB3	2:207:B:GLU:H	10	0.24	0.07	0.24
(1,576)	2:188:B:ALA:HB1	2:230:B:CYS:H	10	0.24	0.07	0.24
(1,3063)	1:34:A:LYS:HD2	1:34:A:LYS:HA	10	0.21	0.05	0.23
(1,3063)	1:31:A:LYS:HD2	1:32:A:ASP:HA	10	0.21	0.05	0.23
(1,4173)	1:34:A:LYS:HA	1:34:A:LYS:HD2	10	0.21	0.05	0.23
(1,4173)	1:32:A:ASP:HA	1:31:A:LYS:HD2	10	0.21	0.05	0.23
(1,402)	1:19:A:THR:HB	1:6:A:ILE:H	10	0.21	0.07	0.2
(1,5225)	2:183:B:LEU:HA	2:212:B:ALA:HB3	10	0.19	0.06	0.17
(1,5225)	2:183:B:LEU:HA	2:212:B:ALA:HB1	10	0.19	0.06	0.17
(1,5225)	2:183:B:LEU:HA	2:212:B:ALA:HB2	10	0.19	0.06	0.17
(1,2881)	2:141:B:GLU:HB2	2:141:B:GLU:HA	10	0.16	0.01	0.16
(1,672)	2:156:B:LEU:HD13	2:155:B:LYS:H	10	0.15	0.05	0.13
(1,672)	2:156:B:LEU:HD11	2:155:B:LYS:H	10	0.15	0.05	0.13
(1,672)	2:156:B:LEU:HD12	2:155:B:LYS:H	10	0.15	0.05	0.13
(1,4469)	2:144:B:GLU:HA	2:143:B:ILE:HG12	10	0.15	0.04	0.14
(1,4469)	2:144:B:GLU:HA	2:239:B:LEU:HG	10	0.15	0.04	0.14
(1,4095)	2:158:B:GLU:H	2:158:B:GLU:HB3	10	0.12	0.01	0.12
(1,3272)	2:203:B:ILE:HD13	2:223:B:ARG:HD3	9	0.77	0.43	1.01
(1,3272)	2:203:B:ILE:HD12	2:223:B:ARG:HD3	9	0.77	0.43	1.01
(1,3272)	2:203:B:ILE:HD11	2:223:B:ARG:HD3	9	0.77	0.43	1.01
(1,2235)	2:222:B:ASN:HB2	2:203:B:ILE:HD11	9	0.45	0.13	0.46
(1,2235)	2:222:B:ASN:HB2	2:203:B:ILE:HD13	9	0.45	0.13	0.46
(1,2235)	2:205:B:ARG:HD3	2:203:B:ILE:HD13	9	0.45	0.13	0.46
(1,2235)	2:222:B:ASN:HB2	2:203:B:ILE:HD12	9	0.45	0.13	0.46
(1,2235)	2:205:B:ARG:HD2	2:203:B:ILE:HD12	9	0.45	0.13	0.46

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2235)	2:205:B:ARG:HD3	2:203:B:ILE:HD11	9	0.45	0.13	0.46
(1,3713)	2:154:B:LYS:HE3	2:151:B:GLU:HG3	9	0.44	0.14	0.45
(1,3713)	2:154:B:LYS:HE3	2:151:B:GLU:HG2	9	0.44	0.14	0.45
(1,3713)	2:155:B:LYS:HE2	2:151:B:GLU:HG3	9	0.44	0.14	0.45
(1,271)	1:49:A:VAL:HG11	1:48:A:ASN:H	9	0.39	0.13	0.41
(1,271)	1:49:A:VAL:HG12	1:48:A:ASN:H	9	0.39	0.13	0.41
(1,271)	1:49:A:VAL:HG13	1:48:A:ASN:H	9	0.39	0.13	0.41
(1,271)	1:49:A:VAL:HG21	1:48:A:ASN:H	9	0.39	0.13	0.41
(1,271)	1:49:A:VAL:HG22	1:48:A:ASN:H	9	0.39	0.13	0.41
(1,271)	1:49:A:VAL:HG23	1:48:A:ASN:H	9	0.39	0.13	0.41
(1,393)	1:24:A:PHE:HD2	2:170:B:VAL:H	9	0.31	0.18	0.25
(1,393)	1:24:A:PHE:HD1	2:170:B:VAL:H	9	0.31	0.18	0.25
(1,393)	2:225:B:TYR:HE1	2:170:B:VAL:H	9	0.31	0.18	0.25
(1,3725)	2:151:B:GLU:HB2	2:236:B:ASN:HB2	9	0.28	0.19	0.18
(1,3725)	2:147:B:GLU:HG3	2:236:B:ASN:HB2	9	0.28	0.19	0.18
(1,3919)	2:171:B:PRO:HA	2:172:B:LYS:HB2	9	0.26	0.1	0.25
(1,3919)	1:9:A:GLU:HA	1:16:A:VAL:HB	9	0.26	0.1	0.25
(1,1588)	2:243:B:TYR:HD1	1:19:A:THR:H	9	0.25	0.1	0.19
(1,1588)	2:243:B:TYR:HD2	1:19:A:THR:H	9	0.25	0.1	0.19
(1,1588)	1:41:A:PHE:HE1	1:19:A:THR:H	9	0.25	0.1	0.19
(1,1588)	1:41:A:PHE:HE2	1:19:A:THR:H	9	0.25	0.1	0.19
(1,522)	1:42:A:GLU:HG3	1:43:A:ASN:H	9	0.23	0.12	0.16
(1,2889)	2:186:B:MET:HB3	2:183:B:LEU:HA	9	0.23	0.07	0.25
(1,4015)	2:170:B:VAL:HG21	1:23:A:GLU:HG3	9	0.21	0.07	0.22
(1,4015)	2:170:B:VAL:HG22	1:23:A:GLU:HG3	9	0.21	0.07	0.22
(1,4015)	2:170:B:VAL:HG23	1:23:A:GLU:HG3	9	0.21	0.07	0.22
(1,4015)	1:25:A:LEU:HD22	1:23:A:GLU:HG3	9	0.21	0.07	0.22
(1,4015)	1:25:A:LEU:HD21	1:23:A:GLU:HG3	9	0.21	0.07	0.22
(1,4015)	1:25:A:LEU:HD23	1:23:A:GLU:HG3	9	0.21	0.07	0.22
(1,1534)	2:156:B:LEU:HD23	2:162:B:THR:H	9	0.2	0.08	0.18
(1,1534)	2:156:B:LEU:HD21	2:162:B:THR:H	9	0.2	0.08	0.18
(1,1534)	2:156:B:LEU:HD22	2:162:B:THR:H	9	0.2	0.08	0.18
(1,1428)	2:192:B:GLN:HB3	2:195:B:ASN:H	9	0.2	0.06	0.23
(1,22)	1:26:A:ILE:HG21	1:47:A:TYR:H	9	0.2	0.06	0.18
(1,22)	1:26:A:ILE:HG22	1:47:A:TYR:H	9	0.2	0.06	0.18
(1,22)	1:26:A:ILE:HG23	1:47:A:TYR:H	9	0.2	0.06	0.18
(1,1016)	2:238:B:ASN:HB2	2:242:B:ARG:H	9	0.19	0.05	0.2
(1,1152)	2:161:B:ILE:HG23	2:225:B:TYR:H	9	0.19	0.06	0.18
(1,1152)	2:161:B:ILE:HG22	2:225:B:TYR:H	9	0.19	0.06	0.18
(1,1152)	2:161:B:ILE:HG21	2:225:B:TYR:H	9	0.19	0.06	0.18
(1,3747)	2:154:B:LYS:HD2	2:151:B:GLU:HG2	9	0.17	0.08	0.15
(1,3747)	2:154:B:LYS:HD3	2:151:B:GLU:HG3	9	0.17	0.08	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3747)	2:154:B:LYS:HD2	2:151:B:GLU:HG3	9	0.17	0.08	0.15
(1,3747)	2:154:B:LYS:HD3	2:151:B:GLU:HG2	9	0.17	0.08	0.15
(1,2506)	2:245:B:GLU:H	2:242:B:ARG:HA	9	0.17	0.04	0.16
(1,1037)	2:184:B:ALA:HB3	2:183:B:LEU:H	9	0.17	0.04	0.17
(1,1037)	2:184:B:ALA:HB1	2:183:B:LEU:H	9	0.17	0.04	0.17
(1,1037)	2:184:B:ALA:HB2	2:183:B:LEU:H	9	0.17	0.04	0.17
(1,638)	1:10:A:ILE:HG23	1:14:A:LYS:H	9	0.16	0.04	0.15
(1,638)	1:10:A:ILE:HG21	1:14:A:LYS:H	9	0.16	0.04	0.15
(1,638)	1:10:A:ILE:HG22	1:14:A:LYS:H	9	0.16	0.04	0.15
(1,4296)	1:15:A:ALA:H	1:14:A:LYS:HD3	9	0.15	0.04	0.14
(1,1478)	2:234:B:ARG:HB2	2:235:B:SER:H	9	0.14	0.04	0.13
(1,3765)	1:26:A:ILE:HG13	1:47:A:TYR:HB3	9	0.14	0.02	0.15
(1,436)	2:251:B:GLU:HA	2:251:B:GLU:H	9	0.12	0.02	0.11
(1,952)	2:154:B:LYS:HE2	2:153:B:LYS:H	8	0.78	0.25	0.87
(1,952)	2:153:B:LYS:HE2	2:153:B:LYS:H	8	0.78	0.25	0.87
(1,952)	2:154:B:LYS:HE3	2:153:B:LYS:H	8	0.78	0.25	0.87
(1,2621)	2:213:B:LYS:HE3	2:211:B:LYS:HA	8	0.48	0.16	0.43
(1,2621)	2:211:B:LYS:HE3	2:211:B:LYS:HA	8	0.48	0.16	0.43
(1,2621)	2:211:B:LYS:HE2	2:211:B:LYS:HA	8	0.48	0.16	0.43
(1,2621)	2:213:B:LYS:HE2	2:211:B:LYS:HA	8	0.48	0.16	0.43
(1,5342)	2:164:B:LEU:HB2	2:162:B:THR:HG21	8	0.39	0.2	0.44
(1,5342)	2:164:B:LEU:HB2	2:162:B:THR:HG23	8	0.39	0.2	0.44
(1,5342)	2:164:B:LEU:HB2	2:162:B:THR:HG22	8	0.39	0.2	0.44
(1,6176)	2:230:B:CYS:HB2	2:194:B:TYR:HE1	8	0.36	0.15	0.36
(1,6176)	2:230:B:CYS:HB2	2:194:B:TYR:HE2	8	0.36	0.15	0.36
(1,6176)	2:233:B:PHE:HB2	2:194:B:TYR:HE1	8	0.36	0.15	0.36
(1,5208)	1:5:A:GLY:HA2	1:19:A:THR:HG21	8	0.33	0.11	0.3
(1,5208)	1:5:A:GLY:HA2	1:19:A:THR:HG22	8	0.33	0.11	0.3
(1,5208)	1:5:A:GLY:HA2	1:19:A:THR:HG23	8	0.33	0.11	0.3
(1,1045)	2:171:B:PRO:HB3	2:181:B:ILE:H	8	0.27	0.08	0.29
(1,1045)	2:182:B:ARG:HG3	2:181:B:ILE:H	8	0.27	0.08	0.29
(1,5449)	2:207:B:GLU:H	2:203:B:ILE:HG23	8	0.25	0.09	0.24
(1,5449)	2:207:B:GLU:H	2:203:B:ILE:HG21	8	0.25	0.09	0.24
(1,5449)	2:207:B:GLU:H	2:203:B:ILE:HG22	8	0.25	0.09	0.24
(1,5449)	2:209:B:LYS:H	2:203:B:ILE:HG22	8	0.25	0.09	0.24
(1,5449)	2:209:B:LYS:H	2:203:B:ILE:HG23	8	0.25	0.09	0.24
(1,3248)	2:192:B:GLN:HB2	2:190:B:ASP:HB2	8	0.24	0.1	0.23
(1,3248)	2:186:B:MET:HB3	2:190:B:ASP:HB2	8	0.24	0.1	0.23
(1,4545)	2:213:B:LYS:HE2	2:213:B:LYS:HB3	8	0.24	0.08	0.24
(1,4545)	2:213:B:LYS:HE3	2:213:B:LYS:HB3	8	0.24	0.08	0.24
(1,2329)	2:179:B:LEU:HD11	2:218:B:THR:HA	8	0.23	0.11	0.22
(1,2329)	2:179:B:LEU:HD12	2:218:B:THR:HA	8	0.23	0.11	0.22

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2329)	2:226:B:ILE:HD11	2:218:B:THR:HA	8	0.23	0.11	0.22
(1,2329)	2:179:B:LEU:HD13	2:218:B:THR:HA	8	0.23	0.11	0.22
(1,2329)	2:226:B:ILE:HD12	2:218:B:THR:HA	8	0.23	0.11	0.22
(1,2329)	2:226:B:ILE:HD13	2:218:B:THR:HA	8	0.23	0.11	0.22
(1,273)	1:49:A:VAL:HG21	1:50:A:ARG:H	8	0.22	0.11	0.2
(1,273)	1:49:A:VAL:HG11	1:50:A:ARG:H	8	0.22	0.11	0.2
(1,4089)	2:220:B:GLY:H	2:217:B:ARG:HB2	8	0.2	0.06	0.21
(1,4235)	2:151:B:GLU:HG3	2:154:B:LYS:HD3	8	0.19	0.09	0.17
(1,4235)	2:151:B:GLU:HG3	2:154:B:LYS:HD2	8	0.19	0.09	0.17
(1,4235)	2:151:B:GLU:HG2	2:154:B:LYS:HD3	8	0.19	0.09	0.17
(1,4235)	2:151:B:GLU:HG2	2:154:B:LYS:HD2	8	0.19	0.09	0.17
(1,1728)	2:226:B:ILE:HG22	2:229:B:LEU:H	8	0.17	0.04	0.16
(1,1728)	2:226:B:ILE:HG21	2:229:B:LEU:H	8	0.17	0.04	0.16
(1,1728)	2:226:B:ILE:HG23	2:229:B:LEU:H	8	0.17	0.04	0.16
(1,5981)	2:247:B:TYR:H	2:247:B:TYR:HD2	8	0.16	0.03	0.16
(1,5981)	2:247:B:TYR:H	2:247:B:TYR:HD1	8	0.16	0.03	0.16
(1,6228)	2:237:B:LEU:HB2	1:8:A:TYR:HE2	8	0.16	0.05	0.15
(1,6228)	2:237:B:LEU:HB2	1:8:A:TYR:HE1	8	0.16	0.05	0.15
(1,4189)	2:251:B:GLU:HA	2:251:B:GLU:HB3	8	0.15	0.03	0.15
(1,2591)	2:246:B:TYR:HA	2:245:B:GLU:HA	8	0.12	0.02	0.12
(1,2591)	2:248:B:THR:HB	2:245:B:GLU:HA	8	0.12	0.02	0.12
(1,5471)	2:143:B:ILE:H	2:143:B:ILE:HG21	8	0.12	0.01	0.12
(1,5471)	2:143:B:ILE:H	2:143:B:ILE:HG23	8	0.12	0.01	0.12
(1,5471)	2:143:B:ILE:H	2:143:B:ILE:HG22	8	0.12	0.01	0.12
(1,3742)	2:145:B:ALA:HB1	2:147:B:GLU:HG2	7	0.49	0.13	0.45
(1,3742)	2:146:B:ARG:HG3	2:150:B:GLU:HG2	7	0.49	0.13	0.45
(1,3742)	2:146:B:ARG:HG2	2:150:B:GLU:HG2	7	0.49	0.13	0.45
(1,3742)	2:145:B:ALA:HB3	2:147:B:GLU:HG2	7	0.49	0.13	0.45
(1,955)	2:154:B:LYS:HE2	2:154:B:LYS:H	7	0.43	0.15	0.43
(1,955)	2:154:B:LYS:HE3	2:154:B:LYS:H	7	0.43	0.15	0.43
(1,955)	2:153:B:LYS:HE3	2:154:B:LYS:H	7	0.43	0.15	0.43
(1,3775)	1:16:A:VAL:HG23	1:9:A:GLU:HG2	7	0.38	0.23	0.32
(1,3775)	1:16:A:VAL:HG22	1:9:A:GLU:HG2	7	0.38	0.23	0.32
(1,3775)	1:16:A:VAL:HG21	1:9:A:GLU:HG2	7	0.38	0.23	0.32
(1,3246)	1:13:A:MET:HB3	1:29:A:ARG:HD2	7	0.38	0.21	0.3
(1,3246)	1:13:A:MET:HB3	1:29:A:ARG:HD3	7	0.38	0.21	0.3
(1,2713)	2:153:B:LYS:HG2	2:154:B:LYS:HA	7	0.36	0.21	0.27
(1,2713)	2:153:B:LYS:HG3	2:150:B:GLU:HA	7	0.36	0.21	0.27
(1,2713)	2:153:B:LYS:HG3	2:154:B:LYS:HA	7	0.36	0.21	0.27
(1,2713)	2:153:B:LYS:HG2	2:150:B:GLU:HA	7	0.36	0.21	0.27
(1,1591)	1:24:A:PHE:HD1	1:23:A:GLU:H	7	0.35	0.1	0.35
(1,1591)	2:225:B:TYR:HE2	1:23:A:GLU:H	7	0.35	0.1	0.35

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1591)	1:24:A:PHE:HD2	1:23:A:GLU:H	7	0.35	0.1	0.35
(1,1591)	2:225:B:TYR:HE1	1:23:A:GLU:H	7	0.35	0.1	0.35
(1,4877)	2:247:B:TYR:HA	2:250:B:LEU:HD21	7	0.31	0.13	0.25
(1,4877)	2:247:B:TYR:HA	2:250:B:LEU:HD22	7	0.31	0.13	0.25
(1,4877)	2:247:B:TYR:HA	2:250:B:LEU:HD23	7	0.31	0.13	0.25
(1,4102)	2:231:B:LEU:H	2:234:B:ARG:HB2	7	0.3	0.1	0.29
(1,2002)	2:155:B:LYS:HD2	2:158:B:GLU:H	7	0.28	0.17	0.32
(1,2002)	2:155:B:LYS:HD3	2:158:B:GLU:H	7	0.28	0.17	0.32
(1,4005)	2:143:B:ILE:HG21	1:37:A:GLN:HG3	7	0.26	0.09	0.27
(1,4005)	2:143:B:ILE:HG22	1:37:A:GLN:HG3	7	0.26	0.09	0.27
(1,4005)	2:143:B:ILE:HG23	1:37:A:GLN:HG3	7	0.26	0.09	0.27
(1,4577)	1:22:A:GLY:HA2	2:244:B:LEU:HD13	7	0.26	0.07	0.23
(1,4577)	1:22:A:GLY:HA2	2:244:B:LEU:HD11	7	0.26	0.07	0.23
(1,4577)	1:22:A:GLY:HA2	2:244:B:LEU:HD12	7	0.26	0.07	0.23
(1,6045)	2:166:B:LEU:HB2	2:225:B:TYR:HD1	7	0.24	0.08	0.26
(1,6045)	2:166:B:LEU:HB2	2:225:B:TYR:HD2	7	0.24	0.08	0.26
(1,4515)	2:223:B:ARG:HA	2:223:B:ARG:HG2	7	0.23	0.04	0.23
(1,6227)	1:6:A:ILE:HB	1:8:A:TYR:HE2	7	0.23	0.09	0.21
(1,6227)	1:6:A:ILE:HB	1:8:A:TYR:HE1	7	0.23	0.09	0.21
(1,6227)	2:237:B:LEU:HG	1:8:A:TYR:HE1	7	0.23	0.09	0.21
(1,4020)	2:149:B:ILE:HG23	1:9:A:GLU:HB2	7	0.23	0.08	0.19
(1,4020)	1:16:A:VAL:HG23	1:9:A:GLU:HB2	7	0.23	0.08	0.19
(1,4020)	1:16:A:VAL:HG22	1:9:A:GLU:HB2	7	0.23	0.08	0.19
(1,4020)	1:16:A:VAL:HG21	1:9:A:GLU:HB2	7	0.23	0.08	0.19
(1,4020)	2:149:B:ILE:HG22	1:9:A:GLU:HB2	7	0.23	0.08	0.19
(1,3283)	1:4:A:LEU:HD11	1:3:A:ARG:HD2	7	0.23	0.17	0.19
(1,3283)	1:25:A:LEU:HD12	1:3:A:ARG:HD3	7	0.23	0.17	0.19
(1,3283)	1:4:A:LEU:HD12	1:3:A:ARG:HD2	7	0.23	0.17	0.19
(1,3283)	1:25:A:LEU:HD13	1:3:A:ARG:HD3	7	0.23	0.17	0.19
(1,5775)	1:4:A:LEU:HD11	1:3:A:ARG:HD2	7	0.23	0.17	0.19
(1,5775)	1:25:A:LEU:HD12	1:3:A:ARG:HD3	7	0.23	0.17	0.19
(1,5775)	1:4:A:LEU:HD12	1:3:A:ARG:HD2	7	0.23	0.17	0.19
(1,5775)	1:25:A:LEU:HD13	1:3:A:ARG:HD3	7	0.23	0.17	0.19
(1,5111)	2:146:B:ARG:H	1:35:A:VAL:HG13	7	0.23	0.1	0.17
(1,5111)	2:146:B:ARG:H	1:35:A:VAL:HG12	7	0.23	0.1	0.17
(1,5111)	2:146:B:ARG:H	1:35:A:VAL:HG11	7	0.23	0.1	0.17
(1,5910)	2:146:B:ARG:HG3	1:35:A:VAL:HG22	7	0.22	0.05	0.24
(1,5910)	1:10:A:ILE:HB	1:35:A:VAL:HG22	7	0.22	0.05	0.24
(1,5910)	1:10:A:ILE:HB	1:35:A:VAL:HG23	7	0.22	0.05	0.24
(1,5910)	2:146:B:ARG:HG3	1:35:A:VAL:HG21	7	0.22	0.05	0.24
(1,2258)	2:153:B:LYS:HB2	2:149:B:ILE:HA	7	0.21	0.08	0.18
(1,5526)	1:38:A:GLN:HA	1:39:A:VAL:HG11	7	0.2	0.08	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5526)	1:38:A:GLN:HA	1:39:A:VAL:HG12	7	0.2	0.08	0.16
(1,5526)	1:38:A:GLN:HA	1:39:A:VAL:HG13	7	0.2	0.08	0.16
(1,433)	2:206:B:ASN:HA	2:208:B:LEU:H	7	0.19	0.03	0.19
(1,2058)	1:36:A:GLY:H	1:7:A:ILE:HD11	7	0.17	0.04	0.17
(1,2058)	1:36:A:GLY:H	1:7:A:ILE:HD12	7	0.17	0.04	0.17
(1,2058)	1:36:A:GLY:H	1:7:A:ILE:HD13	7	0.17	0.04	0.17
(1,1131)	2:162:B:THR:HG21	2:164:B:LEU:H	7	0.17	0.04	0.16
(1,1131)	2:162:B:THR:HG22	2:164:B:LEU:H	7	0.17	0.04	0.16
(1,1131)	2:162:B:THR:HG23	2:164:B:LEU:H	7	0.17	0.04	0.16
(1,4961)	1:36:A:GLY:HA2	2:239:B:LEU:HD21	7	0.15	0.02	0.15
(1,4961)	1:36:A:GLY:HA2	2:239:B:LEU:HD23	7	0.15	0.02	0.15
(1,4961)	1:36:A:GLY:HA2	2:239:B:LEU:HD22	7	0.15	0.02	0.15
(1,538)	1:11:A:GLN:HG3	1:14:A:LYS:H	7	0.14	0.03	0.13
(1,538)	1:11:A:GLN:HG2	1:14:A:LYS:H	7	0.14	0.03	0.13
(1,3275)	2:203:B:ILE:HG13	2:223:B:ARG:HD2	6	0.78	0.16	0.86
(1,3216)	1:50:A:ARG:HA	1:50:A:ARG:HD3	6	0.75	0.19	0.75
(1,3216)	1:50:A:ARG:HA	1:50:A:ARG:HD2	6	0.75	0.19	0.75
(1,4105)	1:37:A:GLN:HE21	1:34:A:LYS:HD3	6	0.5	0.35	0.49
(1,4105)	1:37:A:GLN:HE21	1:34:A:LYS:HD2	6	0.5	0.35	0.49
(1,4105)	1:37:A:GLN:H	1:34:A:LYS:HD3	6	0.5	0.35	0.49
(1,4105)	1:37:A:GLN:H	1:34:A:LYS:HD2	6	0.5	0.35	0.49
(1,4195)	2:207:B:GLU:HA	2:210:B:LYS:HD3	6	0.41	0.14	0.38
(1,4234)	2:158:B:GLU:HG2	2:155:B:LYS:HD2	6	0.39	0.16	0.39
(1,4234)	2:158:B:GLU:HG2	2:155:B:LYS:HD3	6	0.39	0.16	0.39
(1,4234)	2:201:B:LYS:HE3	2:155:B:LYS:HD3	6	0.39	0.16	0.39
(1,1882)	2:213:B:LYS:HE3	2:214:B:VAL:H	6	0.37	0.16	0.44
(1,1882)	2:209:B:LYS:HE3	2:214:B:VAL:H	6	0.37	0.16	0.44
(1,1882)	2:209:B:LYS:HE2	2:214:B:VAL:H	6	0.37	0.16	0.44
(1,3978)	2:153:B:LYS:HD3	2:157:B:GLN:HG2	6	0.36	0.06	0.38
(1,3978)	2:153:B:LYS:HD2	2:157:B:GLN:HG2	6	0.36	0.06	0.38
(1,3955)	1:32:A:ASP:HB2	1:31:A:LYS:HB3	6	0.34	0.13	0.29
(1,1961)	2:217:B:ARG:HD2	2:220:B:GLY:H	6	0.33	0.16	0.26
(1,1961)	2:205:B:ARG:HD2	2:220:B:GLY:H	6	0.33	0.16	0.26
(1,1961)	2:205:B:ARG:HD3	2:220:B:GLY:H	6	0.33	0.16	0.26
(1,5500)	2:225:B:TYR:HD1	2:226:B:ILE:HG23	6	0.31	0.12	0.27
(1,5500)	2:225:B:TYR:HD1	2:226:B:ILE:HG21	6	0.31	0.12	0.27
(1,5500)	2:225:B:TYR:HD1	2:226:B:ILE:HG22	6	0.31	0.12	0.27
(1,5500)	2:225:B:TYR:HD2	2:226:B:ILE:HG23	6	0.31	0.12	0.27
(1,2803)	2:169:B:ASN:HD22	2:166:B:LEU:HA	6	0.3	0.11	0.28
(1,5429)	2:185:B:LYS:H	2:186:B:MET:HE2	6	0.24	0.11	0.24
(1,5429)	2:185:B:LYS:H	2:186:B:MET:HE1	6	0.24	0.11	0.24
(1,5429)	2:185:B:LYS:H	2:186:B:MET:HE3	6	0.24	0.11	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3730)	2:177:B:ARG:HB3	1:23:A:GLU:HG2	6	0.24	0.08	0.24
(1,3730)	2:170:B:VAL:HB	1:23:A:GLU:HG2	6	0.24	0.08	0.24
(1,1187)	2:156:B:LEU:HD22	2:163:B:PHE:H	6	0.2	0.11	0.15
(1,1187)	2:156:B:LEU:HD21	2:163:B:PHE:H	6	0.2	0.11	0.15
(1,1187)	2:156:B:LEU:HD23	2:163:B:PHE:H	6	0.2	0.11	0.15
(1,2188)	1:37:A:GLN:HA	1:7:A:ILE:HD11	6	0.2	0.05	0.2
(1,2188)	1:37:A:GLN:HA	2:143:B:ILE:HD12	6	0.2	0.05	0.2
(1,2188)	1:37:A:GLN:HA	1:7:A:ILE:HD13	6	0.2	0.05	0.2
(1,2188)	1:37:A:GLN:HA	1:7:A:ILE:HD12	6	0.2	0.05	0.2
(1,3745)	2:154:B:LYS:HG3	2:151:B:GLU:HG2	6	0.2	0.01	0.2
(1,1948)	2:181:B:ILE:HD13	2:248:B:THR:H	6	0.19	0.05	0.2
(1,1948)	2:181:B:ILE:HD11	2:248:B:THR:H	6	0.19	0.05	0.2
(1,1948)	2:181:B:ILE:HD12	2:248:B:THR:H	6	0.19	0.05	0.2
(1,1929)	1:40:A:SER:HB3	1:5:A:GLY:H	6	0.19	0.07	0.16
(1,4734)	2:212:B:ALA:H	2:208:B:LEU:HD12	6	0.18	0.06	0.16
(1,4734)	2:212:B:ALA:H	2:208:B:LEU:HD11	6	0.18	0.06	0.16
(1,4014)	2:170:B:VAL:HG23	1:23:A:GLU:HG2	6	0.17	0.03	0.17
(1,4014)	2:170:B:VAL:HG22	1:23:A:GLU:HG2	6	0.17	0.03	0.17
(1,4014)	1:25:A:LEU:HD23	1:23:A:GLU:HG2	6	0.17	0.03	0.17
(1,4014)	2:170:B:VAL:HG21	1:23:A:GLU:HG2	6	0.17	0.03	0.17
(1,501)	2:206:B:ASN:HB2	2:207:B:GLU:H	6	0.14	0.02	0.14
(1,5884)	2:166:B:LEU:HB2	1:24:A:PHE:HA	6	0.14	0.02	0.15
(1,4915)	2:153:B:LYS:HA	2:152:B:LEU:HD12	6	0.13	0.02	0.14
(1,4915)	2:149:B:ILE:HA	2:152:B:LEU:HD11	6	0.13	0.02	0.14
(1,4915)	2:153:B:LYS:HA	2:152:B:LEU:HD11	6	0.13	0.02	0.14
(1,4915)	2:149:B:ILE:HA	2:152:B:LEU:HD12	6	0.13	0.02	0.14
(1,4915)	2:149:B:ILE:HA	2:152:B:LEU:HD13	6	0.13	0.02	0.14
(1,5759)	2:189:B:GLU:HG2	2:188:B:ALA:HA	6	0.13	0.02	0.12
(1,5759)	2:191:B:GLU:HG2	2:188:B:ALA:HA	6	0.13	0.02	0.12
(1,3439)	2:142:B:ASP:HB3	2:143:B:ILE:HB	6	0.12	0.02	0.12
(1,3439)	2:142:B:ASP:HB2	2:143:B:ILE:HB	6	0.12	0.02	0.12
(1,1158)	2:143:B:ILE:HG21	2:143:B:ILE:H	6	0.12	0.01	0.12
(1,1158)	2:143:B:ILE:HG23	2:143:B:ILE:H	6	0.12	0.01	0.12
(1,1158)	2:143:B:ILE:HG22	2:143:B:ILE:H	6	0.12	0.01	0.12
(1,1107)	2:213:B:LYS:HD2	2:210:B:LYS:H	5	0.6	0.23	0.68
(1,1107)	2:213:B:LYS:HD3	2:210:B:LYS:H	5	0.6	0.23	0.68
(1,1906)	2:209:B:LYS:HG3	2:214:B:VAL:H	5	0.6	0.13	0.57
(1,1906)	2:219:B:ILE:HG13	2:214:B:VAL:H	5	0.6	0.13	0.57
(1,3711)	2:210:B:LYS:HE2	2:207:B:GLU:HG2	5	0.39	0.1	0.4
(1,3711)	2:211:B:LYS:HE3	2:207:B:GLU:HG2	5	0.39	0.1	0.4
(1,5426)	2:193:B:MET:H	2:193:B:MET:HE1	5	0.36	0.14	0.42
(1,5426)	2:183:B:LEU:H	2:186:B:MET:HE2	5	0.36	0.14	0.42

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5426)	2:183:B:LEU:H	2:186:B:MET:HE1	5	0.36	0.14	0.42
(1,384)	2:234:B:ARG:HE	2:194:B:TYR:H	5	0.34	0.09	0.35
(1,384)	2:194:B:TYR:HE2	2:194:B:TYR:H	5	0.34	0.09	0.35
(1,384)	2:194:B:TYR:HE1	2:194:B:TYR:H	5	0.34	0.09	0.35
(1,1300)	2:243:B:TYR:HE1	1:21:A:GLU:H	5	0.32	0.14	0.27
(1,1300)	2:177:B:ARG:HE	1:21:A:GLU:H	5	0.32	0.14	0.27
(1,1300)	2:247:B:TYR:HE2	1:21:A:GLU:H	5	0.32	0.14	0.27
(1,5457)	2:187:B:LEU:H	2:193:B:MET:HE1	5	0.26	0.11	0.27
(1,5457)	2:187:B:LEU:H	2:193:B:MET:HE2	5	0.26	0.11	0.27
(1,5457)	2:187:B:LEU:H	2:193:B:MET:HE3	5	0.26	0.11	0.27
(1,5948)	2:179:B:LEU:HA	2:182:B:ARG:HD3	5	0.23	0.11	0.23
(1,4615)	2:153:B:LYS:HB3	2:151:B:GLU:HB2	5	0.21	0.04	0.18
(1,1810)	2:142:B:ASP:HB3	1:38:A:GLN:HE21	5	0.21	0.05	0.18
(1,1810)	2:142:B:ASP:HB2	1:38:A:GLN:HE21	5	0.21	0.05	0.18
(1,6271)	2:250:B:LEU:HD21	2:246:B:TYR:HE1	5	0.17	0.08	0.13
(1,6271)	2:250:B:LEU:HD21	2:246:B:TYR:HE2	5	0.17	0.08	0.13
(1,6271)	2:250:B:LEU:HD22	2:246:B:TYR:HE1	5	0.17	0.08	0.13
(1,6271)	2:250:B:LEU:HD22	2:246:B:TYR:HE2	5	0.17	0.08	0.13
(1,6271)	2:250:B:LEU:HD23	2:246:B:TYR:HE1	5	0.17	0.08	0.13
(1,6271)	2:250:B:LEU:HD23	2:246:B:TYR:HE2	5	0.17	0.08	0.13
(1,6271)	2:250:B:LEU:HD11	2:246:B:TYR:HE1	5	0.17	0.08	0.13
(1,6271)	2:250:B:LEU:HD11	2:246:B:TYR:HE2	5	0.17	0.08	0.13
(1,6271)	2:250:B:LEU:HD12	2:246:B:TYR:HE1	5	0.17	0.08	0.13
(1,6271)	2:250:B:LEU:HD12	2:246:B:TYR:HE2	5	0.17	0.08	0.13
(1,6271)	2:250:B:LEU:HD13	2:246:B:TYR:HE1	5	0.17	0.08	0.13
(1,6271)	2:250:B:LEU:HD13	2:246:B:TYR:HE2	5	0.17	0.08	0.13
(1,6163)	1:46:A:ILE:HA	1:47:A:TYR:HE2	5	0.16	0.02	0.15
(1,6163)	2:244:B:LEU:HA	2:246:B:TYR:HE1	5	0.16	0.02	0.15
(1,6163)	1:46:A:ILE:HA	1:47:A:TYR:HE1	5	0.16	0.02	0.15
(1,2143)	1:9:A:GLU:H	1:10:A:ILE:HD13	5	0.16	0.03	0.16
(1,2143)	1:9:A:GLU:H	1:10:A:ILE:HD12	5	0.16	0.03	0.16
(1,2143)	1:9:A:GLU:H	1:10:A:ILE:HD11	5	0.16	0.03	0.16
(1,582)	1:10:A:ILE:HG12	1:35:A:VAL:H	5	0.15	0.04	0.18
(1,507)	2:241:B:LYS:HE2	2:238:B:ASN:H	5	0.14	0.01	0.14
(1,507)	2:241:B:LYS:HE3	2:238:B:ASN:H	5	0.14	0.01	0.14
(1,1692)	1:17:A:VAL:HB	1:19:A:THR:H	5	0.14	0.03	0.14
(1,3700)	2:251:B:GLU:HA	2:251:B:GLU:HG3	5	0.12	0.0	0.12
(1,1345)	1:33:A:MET:HA	1:33:A:MET:H	5	0.11	0.01	0.11
(1,871)	2:249:B:MET:HA	2:249:B:MET:H	5	0.11	0.01	0.1
(1,2611)	2:210:B:LYS:HE3	2:210:B:LYS:HA	4	0.59	0.03	0.59
(1,2611)	2:210:B:LYS:HE2	2:210:B:LYS:HA	4	0.59	0.03	0.59
(1,3193)	2:247:B:TYR:HD1	2:177:B:ARG:HD3	4	0.38	0.21	0.33

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3193)	2:247:B:TYR:HD2	2:177:B:ARG:HD2	4	0.38	0.21	0.33
(1,3193)	2:247:B:TYR:HD2	2:177:B:ARG:HD3	4	0.38	0.21	0.33
(1,4575)	2:230:B:CYS:HB3	2:231:B:LEU:HD22	4	0.33	0.26	0.2
(1,4575)	2:230:B:CYS:HB3	2:231:B:LEU:HD21	4	0.33	0.26	0.2
(1,4575)	1:5:A:GLY:HA3	1:18:A:LEU:HD23	4	0.33	0.26	0.2
(1,2222)	2:240:B:SER:HB2	2:149:B:ILE:HD12	4	0.27	0.15	0.23
(1,2222)	2:240:B:SER:HB2	2:149:B:ILE:HD11	4	0.27	0.15	0.23
(1,2222)	2:240:B:SER:HB2	2:149:B:ILE:HD13	4	0.27	0.15	0.23
(1,6151)	1:29:A:ARG:H	1:47:A:TYR:HE2	4	0.26	0.06	0.25
(1,6151)	1:29:A:ARG:H	1:47:A:TYR:HE1	4	0.26	0.06	0.25
(1,6151)	2:247:B:TYR:H	2:246:B:TYR:HE1	4	0.26	0.06	0.25
(1,6151)	2:247:B:TYR:H	2:246:B:TYR:HE2	4	0.26	0.06	0.25
(1,4116)	2:148:B:ASP:H	2:144:B:GLU:HB3	4	0.25	0.14	0.2
(1,3609)	1:46:A:ILE:H	1:43:A:ASN:HB3	4	0.22	0.11	0.18
(1,3609)	1:3:A:ARG:HE	1:43:A:ASN:HB2	4	0.22	0.11	0.18
(1,3886)	1:24:A:PHE:HD2	2:170:B:VAL:HB	4	0.22	0.08	0.22
(1,3886)	2:225:B:TYR:HE2	2:170:B:VAL:HB	4	0.22	0.08	0.22
(1,3886)	1:24:A:PHE:HD1	2:170:B:VAL:HB	4	0.22	0.08	0.22
(1,3886)	2:225:B:TYR:HE1	2:170:B:VAL:HB	4	0.22	0.08	0.22
(1,1907)	2:208:B:LEU:HB3	2:214:B:VAL:H	4	0.22	0.1	0.17
(1,5683)	2:183:B:LEU:HB3	2:203:B:ILE:HG21	4	0.22	0.03	0.22
(1,5683)	2:183:B:LEU:HB3	2:203:B:ILE:HG23	4	0.22	0.03	0.22
(1,5683)	2:183:B:LEU:HB3	2:203:B:ILE:HG22	4	0.22	0.03	0.22
(1,2932)	1:39:A:VAL:HG13	1:38:A:GLN:HA	4	0.21	0.11	0.17
(1,2932)	1:7:A:ILE:HG13	1:38:A:GLN:HA	4	0.21	0.11	0.17
(1,385)	1:41:A:PHE:HE2	1:6:A:ILE:H	4	0.18	0.05	0.17
(1,385)	1:41:A:PHE:HE1	1:6:A:ILE:H	4	0.18	0.05	0.17
(1,3215)	1:29:A:ARG:HA	1:30:A:ARG:HD3	4	0.17	0.06	0.15
(1,6050)	2:197:B:LEU:HD12	2:194:B:TYR:HD2	4	0.16	0.04	0.16
(1,6050)	2:231:B:LEU:HD13	2:194:B:TYR:HD2	4	0.16	0.04	0.16
(1,6050)	2:197:B:LEU:HD11	2:194:B:TYR:HD1	4	0.16	0.04	0.16
(1,6050)	2:197:B:LEU:HD13	2:194:B:TYR:HD1	4	0.16	0.04	0.16
(1,5237)	2:243:B:TYR:HA	2:244:B:LEU:HD23	4	0.16	0.04	0.16
(1,5237)	2:243:B:TYR:HA	2:244:B:LEU:HD21	4	0.16	0.04	0.16
(1,6095)	2:152:B:LEU:HG	2:163:B:PHE:HE1	4	0.15	0.02	0.16
(1,6095)	2:153:B:LYS:HD3	2:163:B:PHE:HE1	4	0.15	0.02	0.16
(1,6095)	2:153:B:LYS:HD3	2:163:B:PHE:HE2	4	0.15	0.02	0.16
(1,6095)	2:152:B:LEU:HG	2:163:B:PHE:HE2	4	0.15	0.02	0.16
(1,514)	2:194:B:TYR:HB3	2:190:B:ASP:H	4	0.15	0.03	0.14
(1,4159)	1:50:A:ARG:HA	1:50:A:ARG:HB3	4	0.15	0.01	0.15
(1,5713)	2:201:B:LYS:HA	2:227:B:ILE:HG21	4	0.15	0.05	0.13
(1,5713)	2:201:B:LYS:HA	2:227:B:ILE:HG22	4	0.15	0.05	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1710)	2:223:B:ARG:HG2	2:222:B:ASN:H	4	0.14	0.02	0.15
(1,2280)	2:166:B:LEU:HB3	2:167:B:VAL:HA	4	0.14	0.04	0.12
(1,1465)	1:44:A:GLU:HB2	1:45:A:ASP:H	4	0.14	0.03	0.13
(1,1465)	1:44:A:GLU:HB3	1:45:A:ASP:H	4	0.14	0.03	0.13
(1,2717)	2:152:B:LEU:HD12	2:153:B:LYS:HA	4	0.13	0.02	0.13
(1,2717)	2:149:B:ILE:HG22	2:153:B:LYS:HA	4	0.13	0.02	0.13
(1,2717)	2:152:B:LEU:HD13	2:153:B:LYS:HA	4	0.13	0.02	0.13
(1,2600)	2:153:B:LYS:HA	2:150:B:GLU:HA	4	0.12	0.02	0.11
(1,2600)	2:149:B:ILE:HA	2:150:B:GLU:HA	4	0.12	0.02	0.11
(1,2600)	2:153:B:LYS:HA	2:154:B:LYS:HA	4	0.12	0.02	0.11
(1,2897)	1:26:A:ILE:HB	1:27:A:ILE:HA	4	0.12	0.01	0.12
(1,5088)	1:17:A:VAL:H	1:16:A:VAL:HG22	4	0.12	0.0	0.12
(1,5088)	1:17:A:VAL:H	1:16:A:VAL:HG23	4	0.12	0.0	0.12
(1,641)	1:49:A:VAL:HG11	1:49:A:VAL:H	3	0.62	0.19	0.73
(1,641)	1:49:A:VAL:HG13	1:49:A:VAL:H	3	0.62	0.19	0.73
(1,3943)	2:195:B:ASN:HB3	2:192:B:GLN:HG3	3	0.57	0.26	0.46
(1,3943)	2:153:B:LYS:HE2	2:157:B:GLN:HG2	3	0.57	0.26	0.46
(1,4120)	2:163:B:PHE:HE1	2:153:B:LYS:HD2	3	0.57	0.05	0.55
(1,3438)	2:189:B:GLU:HG3	2:185:B:LYS:HE3	3	0.54	0.18	0.48
(1,816)	2:247:B:TYR:HE1	2:247:B:TYR:H	3	0.38	0.12	0.44
(1,816)	2:247:B:TYR:HE2	2:247:B:TYR:H	3	0.38	0.12	0.44
(1,3242)	2:147:B:GLU:HG2	2:146:B:ARG:HD3	3	0.38	0.2	0.35
(1,3242)	1:33:A:MET:HG3	1:30:A:ARG:HD2	3	0.38	0.2	0.35
(1,3242)	1:44:A:GLU:HG2	1:28:A:ARG:HD2	3	0.38	0.2	0.35
(1,4991)	1:38:A:GLN:HG2	2:239:B:LEU:HD12	3	0.31	0.12	0.33
(1,4991)	1:38:A:GLN:HG2	2:239:B:LEU:HD11	3	0.31	0.12	0.33
(1,5870)	2:154:B:LYS:HG3	2:158:B:GLU:HG2	3	0.31	0.09	0.35
(1,5870)	2:155:B:LYS:HG2	2:158:B:GLU:HG2	3	0.31	0.09	0.35
(1,1589)	2:225:B:TYR:HE1	2:180:B:CYS:H	3	0.29	0.09	0.31
(1,1678)	2:193:B:MET:HB2	2:189:B:GLU:H	3	0.26	0.07	0.23
(1,1678)	2:202:B:ASN:HB2	2:200:B:ASN:HD21	3	0.26	0.07	0.23
(1,140)	1:13:A:MET:HB3	1:29:A:ARG:H	3	0.25	0.09	0.29
(1,5343)	1:29:A:ARG:HG3	1:15:A:ALA:HB1	3	0.24	0.05	0.25
(1,5343)	1:29:A:ARG:HG3	1:15:A:ALA:HB3	3	0.24	0.05	0.25
(1,3591)	2:160:B:GLY:H	2:158:B:GLU:HG3	3	0.24	0.09	0.27
(1,2447)	1:49:A:VAL:HB	1:49:A:VAL:HA	3	0.22	0.02	0.21
(1,3928)	1:49:A:VAL:HA	1:49:A:VAL:HB	3	0.22	0.02	0.21
(1,3880)	2:163:B:PHE:HD2	1:16:A:VAL:HB	3	0.21	0.05	0.21
(1,3880)	2:163:B:PHE:HD1	1:16:A:VAL:HB	3	0.21	0.05	0.21
(1,5766)	2:148:B:ASP:HB3	2:236:B:ASN:HA	3	0.21	0.09	0.19
(1,5392)	2:166:B:LEU:HD11	1:16:A:VAL:HG12	3	0.2	0.03	0.2
(1,5392)	2:166:B:LEU:HD13	1:16:A:VAL:HG12	3	0.2	0.03	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5392)	2:166:B:LEU:HD11	1:16:A:VAL:HG11	3	0.2	0.03	0.2
(1,161)	1:52:A:LYS:HB2	1:52:A:LYS:H	3	0.2	0.08	0.14
(1,5962)	2:156:B:LEU:HG	2:161:B:ILE:HD11	3	0.19	0.04	0.19
(1,5962)	2:156:B:LEU:HG	2:161:B:ILE:HD12	3	0.19	0.04	0.19
(1,2618)	2:185:B:LYS:HA	2:182:B:ARG:HA	3	0.18	0.01	0.19
(1,3180)	2:205:B:ARG:H	2:202:B:ASN:HB3	3	0.18	0.03	0.19
(1,3180)	2:201:B:LYS:H	2:201:B:LYS:HE2	3	0.18	0.03	0.19
(1,5729)	1:30:A:ARG:H	1:27:A:ILE:HD11	3	0.18	0.07	0.13
(1,5729)	1:41:A:PHE:H	1:27:A:ILE:HD11	3	0.18	0.07	0.13
(1,1750)	2:161:B:ILE:HG13	2:159:B:PHE:H	3	0.18	0.01	0.17
(1,3087)	2:143:B:ILE:HG21	2:145:B:ALA:HA	3	0.17	0.09	0.12
(1,3087)	2:143:B:ILE:HG23	2:145:B:ALA:HA	3	0.17	0.09	0.12
(1,461)	2:191:B:GLU:HA	2:193:B:MET:H	3	0.17	0.04	0.17
(1,4442)	2:243:B:TYR:HD2	2:242:B:ARG:HG3	3	0.16	0.03	0.15
(1,4442)	2:243:B:TYR:HD1	2:242:B:ARG:HG3	3	0.16	0.03	0.15
(1,4822)	2:242:B:ARG:HE	2:239:B:LEU:HD11	3	0.16	0.02	0.16
(1,4822)	2:246:B:TYR:HD1	2:250:B:LEU:HD12	3	0.16	0.02	0.16
(1,5966)	2:176:B:SER:HA	2:173:B:HIS:HE1	3	0.16	0.06	0.14
(1,1934)	1:39:A:VAL:HG13	1:5:A:GLY:H	3	0.16	0.02	0.16
(1,1934)	1:39:A:VAL:HG11	1:5:A:GLY:H	3	0.16	0.02	0.16
(1,3800)	2:185:B:LYS:HG3	2:245:B:GLU:HG3	3	0.16	0.06	0.13
(1,859)	2:151:B:GLU:HA	2:154:B:LYS:H	3	0.15	0.03	0.15
(1,2218)	2:240:B:SER:HB3	2:232:B:ILE:HD12	3	0.15	0.06	0.11
(1,2218)	2:240:B:SER:HB3	2:232:B:ILE:HD11	3	0.15	0.06	0.11
(1,3912)	1:48:A:ASN:HA	1:49:A:VAL:HB	3	0.15	0.02	0.15
(1,3228)	2:187:B:LEU:HA	2:190:B:ASP:HB3	3	0.14	0.02	0.13
(1,6188)	1:14:A:LYS:HB3	1:47:A:TYR:HE1	3	0.13	0.01	0.13
(1,6188)	1:14:A:LYS:HB3	1:47:A:TYR:HE2	3	0.13	0.01	0.13
(1,1153)	2:228:B:ALA:HB3	2:225:B:TYR:H	3	0.13	0.01	0.13
(1,1153)	2:228:B:ALA:HB2	2:225:B:TYR:H	3	0.13	0.01	0.13
(1,5902)	1:46:A:ILE:HG12	1:19:A:THR:HG22	3	0.13	0.02	0.14
(1,5902)	1:21:A:GLU:HB2	1:19:A:THR:HG21	3	0.13	0.02	0.14
(1,2614)	2:217:B:ARG:HD2	2:217:B:ARG:HA	3	0.13	0.02	0.12
(1,2276)	2:217:B:ARG:HG2	2:218:B:THR:HA	3	0.12	0.01	0.12
(1,2276)	2:217:B:ARG:HG3	2:218:B:THR:HA	3	0.12	0.01	0.12
(1,1491)	1:35:A:VAL:HB	1:9:A:GLU:H	3	0.11	0.01	0.11
(1,2150)	1:38:A:GLN:HE22	1:6:A:ILE:HD11	3	0.11	0.01	0.1
(1,2150)	1:38:A:GLN:HE22	1:6:A:ILE:HD12	3	0.11	0.01	0.1
(1,2150)	1:38:A:GLN:HE22	1:6:A:ILE:HD13	3	0.11	0.01	0.1
(1,601)	2:179:B:LEU:HG	2:179:B:LEU:H	3	0.11	0.01	0.1
(1,6091)	2:197:B:LEU:HG	2:159:B:PHE:HE2	3	0.1	0.0	0.1
(1,6091)	2:197:B:LEU:HG	2:159:B:PHE:HE1	3	0.1	0.0	0.1

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3227)	2:174:B:ARG:HA	2:177:B:ARG:HD2	2	0.7	0.03	0.7
(1,6180)	1:14:A:LYS:HE2	1:47:A:TYR:HE2	2	0.45	0.01	0.45
(1,6180)	1:14:A:LYS:HE2	1:47:A:TYR:HE1	2	0.45	0.01	0.45
(1,4205)	2:246:B:TYR:HB3	2:249:B:MET:HG3	2	0.44	0.04	0.44
(1,2257)	2:150:B:GLU:HG3	2:149:B:ILE:HA	2	0.37	0.26	0.37
(1,2257)	2:151:B:GLU:HB2	2:149:B:ILE:HA	2	0.37	0.26	0.37
(1,3162)	2:177:B:ARG:H	2:177:B:ARG:HD2	2	0.35	0.07	0.35
(1,3162)	2:146:B:ARG:H	2:146:B:ARG:HD3	2	0.35	0.07	0.35
(1,3757)	2:241:B:LYS:HG3	2:245:B:GLU:HG3	2	0.33	0.08	0.33
(1,6185)	2:181:B:ILE:HB	2:225:B:TYR:HE1	2	0.32	0.03	0.32
(1,4480)	2:162:B:THR:HB	2:164:B:LEU:HG	2	0.29	0.01	0.29
(1,5617)	1:13:A:MET:HB3	1:13:A:MET:HE3	2	0.28	0.04	0.28
(1,5617)	1:13:A:MET:HB3	1:13:A:MET:HE1	2	0.28	0.04	0.28
(1,2333)	2:226:B:ILE:HG22	2:180:B:CYS:HA	2	0.27	0.02	0.27
(1,2333)	2:183:B:LEU:HD21	2:180:B:CYS:HA	2	0.27	0.02	0.27
(1,6251)	1:14:A:LYS:HD3	1:47:A:TYR:HD2	2	0.26	0.1	0.26
(1,6251)	1:14:A:LYS:HD3	1:47:A:TYR:HD1	2	0.26	0.1	0.26
(1,1518)	2:170:B:VAL:HG21	2:169:B:ASN:H	2	0.26	0.03	0.26
(1,1518)	2:170:B:VAL:HG22	2:169:B:ASN:H	2	0.26	0.03	0.26
(1,790)	2:169:B:ASN:HD21	2:225:B:TYR:H	2	0.24	0.05	0.24
(1,790)	2:222:B:ASN:H	2:225:B:TYR:H	2	0.24	0.05	0.24
(1,1442)	1:49:A:VAL:HB	2:168:B:LEU:H	2	0.23	0.03	0.23
(1,1442)	2:170:B:VAL:HB	2:168:B:LEU:H	2	0.23	0.03	0.23
(1,5904)	2:159:B:PHE:HA	2:227:B:ILE:HG22	2	0.22	0.05	0.22
(1,5904)	2:159:B:PHE:HA	2:227:B:ILE:HG21	2	0.22	0.05	0.22
(1,2511)	2:153:B:LYS:H	2:150:B:GLU:HA	2	0.22	0.07	0.22
(1,3675)	1:37:A:GLN:HA	2:144:B:GLU:HG2	2	0.21	0.06	0.21
(1,4975)	2:171:B:PRO:HB2	2:170:B:VAL:HG11	2	0.21	0.09	0.21
(1,4975)	2:171:B:PRO:HB2	2:170:B:VAL:HG13	2	0.21	0.09	0.21
(1,777)	2:225:B:TYR:HD1	2:181:B:ILE:H	2	0.2	0.04	0.2
(1,1445)	1:30:A:ARG:HB3	1:33:A:MET:H	2	0.2	0.06	0.2
(1,1445)	1:21:A:GLU:HG3	1:3:A:ARG:HE	2	0.2	0.06	0.2
(1,2420)	2:194:B:TYR:HE1	2:230:B:CYS:HA	2	0.2	0.09	0.2
(1,6022)	1:39:A:VAL:HB	1:41:A:PHE:HD2	2	0.2	0.02	0.2
(1,3090)	2:237:B:LEU:HD11	2:144:B:GLU:HA	2	0.19	0.05	0.19
(1,2472)	1:7:A:ILE:HG13	1:7:A:ILE:HA	2	0.18	0.04	0.18
(1,2086)	2:208:B:LEU:H	2:219:B:ILE:HD11	2	0.18	0.06	0.18
(1,4779)	1:11:A:GLN:HE21	2:164:B:LEU:HD12	2	0.17	0.03	0.17
(1,4779)	1:11:A:GLN:HE21	2:164:B:LEU:HD13	2	0.17	0.03	0.17
(1,5889)	1:25:A:LEU:HD13	1:19:A:THR:HA	2	0.17	0.03	0.17
(1,1992)	2:166:B:LEU:HB2	2:170:B:VAL:H	2	0.16	0.06	0.16
(1,438)	1:29:A:ARG:HA	1:14:A:LYS:H	2	0.16	0.02	0.16

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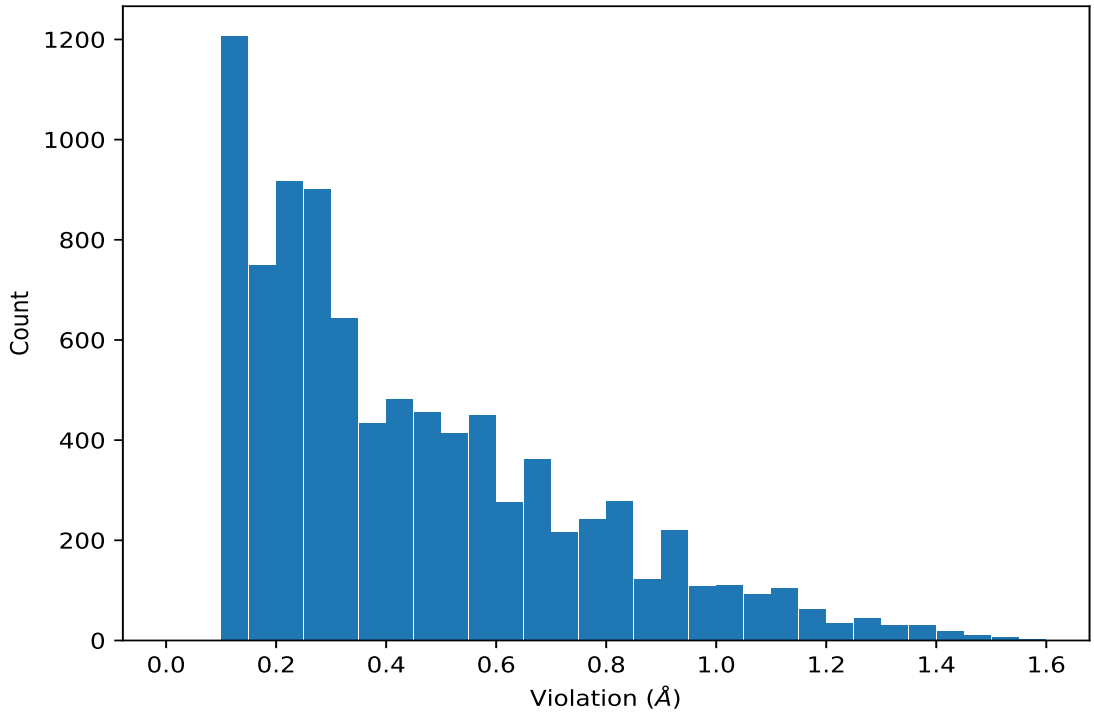
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,438)	1:28:A:ARG:HA	1:14:A:LYS:H	2	0.16	0.02	0.16
(1,1742)	1:25:A:LEU:HD11	1:23:A:GLU:H	2	0.15	0.04	0.15
(1,1742)	1:25:A:LEU:HD13	1:23:A:GLU:H	2	0.15	0.04	0.15
(1,3226)	2:248:B:THR:HA	2:182:B:ARG:HD2	2	0.15	0.03	0.15
(1,3226)	2:147:B:GLU:HA	2:146:B:ARG:HD3	2	0.15	0.03	0.15
(1,1293)	2:163:B:PHE:HD2	1:9:A:GLU:H	2	0.14	0.04	0.14
(1,1293)	2:163:B:PHE:HD1	1:9:A:GLU:H	2	0.14	0.04	0.14
(1,2046)	2:196:B:ALA:HA	2:199:B:LYS:H	2	0.14	0.02	0.14
(1,2057)	2:144:B:GLU:H	2:143:B:ILE:HD12	2	0.14	0.02	0.14
(1,2057)	2:144:B:GLU:H	2:143:B:ILE:HD11	2	0.14	0.02	0.14
(1,3556)	2:208:B:LEU:H	2:207:B:GLU:HG3	2	0.14	0.01	0.14
(1,5565)	2:204:B:PRO:HD2	2:196:B:ALA:HB1	2	0.14	0.04	0.14
(1,5565)	2:204:B:PRO:HD2	2:196:B:ALA:HB3	2	0.14	0.04	0.14
(1,4029)	1:27:A:ILE:HG22	1:17:A:VAL:HB	2	0.13	0.02	0.13
(1,4029)	1:27:A:ILE:HG23	1:17:A:VAL:HB	2	0.13	0.02	0.13
(1,3174)	1:51:A:GLY:H	1:50:A:ARG:HD2	2	0.12	0.02	0.12
(1,3174)	1:51:A:GLY:H	1:50:A:ARG:HD3	2	0.12	0.02	0.12
(1,1062)	2:152:B:LEU:HB3	2:151:B:GLU:H	2	0.12	0.02	0.12
(1,5035)	1:9:A:GLU:HG3	1:35:A:VAL:HG21	2	0.12	0.0	0.12
(1,5035)	1:9:A:GLU:HG3	1:35:A:VAL:HG22	2	0.12	0.0	0.12
(1,5035)	1:9:A:GLU:HG3	1:35:A:VAL:HG23	2	0.12	0.0	0.12
(1,6023)	2:181:B:ILE:HB	2:247:B:TYR:HD2	2	0.12	0.01	0.12
(1,6023)	1:21:A:GLU:HG2	2:247:B:TYR:HD1	2	0.12	0.01	0.12
(1,1327)	2:179:B:LEU:HA	2:180:B:CYS:H	2	0.11	0.0	0.11
(1,2340)	2:187:B:LEU:HD21	2:227:B:ILE:HA	2	0.11	0.0	0.11
(1,2340)	2:231:B:LEU:HD13	2:227:B:ILE:HA	2	0.11	0.0	0.11
(1,2902)	2:174:B:ARG:HG2	2:175:B:ASP:HA	2	0.11	0.0	0.11
(1,2902)	2:174:B:ARG:HG3	2:175:B:ASP:HA	2	0.11	0.0	0.11
(1,5915)	2:168:B:LEU:HA	1:49:A:VAL:HG11	2	0.11	0.0	0.11
(1,5915)	2:168:B:LEU:HA	1:49:A:VAL:HG12	2	0.11	0.0	0.11
(1,5915)	2:168:B:LEU:HA	1:49:A:VAL:HG13	2	0.11	0.0	0.11
(1,1691)	1:21:A:GLU:HB2	1:19:A:THR:H	2	0.11	0.0	0.11
(1,2187)	2:143:B:ILE:HA	2:143:B:ILE:HD11	2	0.11	0.0	0.11
(1,2187)	2:143:B:ILE:HA	2:143:B:ILE:HD12	2	0.11	0.0	0.11

[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)
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD23	3	1.6
(1,2964)	2:149:B:ILE:HD13	1:37:A:GLN:HA	20	1.58
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD22	19	1.54
(1,4731)	1:38:A:GLN:H	2:239:B:LEU:HD11	2	1.52
(1,4731)	1:38:A:GLN:H	2:239:B:LEU:HD11	6	1.51
(1,4731)	2:246:B:TYR:H	2:250:B:LEU:HD11	18	1.51
(1,3785)	1:16:A:VAL:HG23	1:9:A:GLU:HG3	1	1.51
(1,656)	1:6:A:ILE:HD13	1:39:A:VAL:H	12	1.51
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD22	8	1.5
(1,3716)	1:3:A:ARG:HD2	1:21:A:GLU:HG3	4	1.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD22	15	1.48
(1,4731)	2:246:B:TYR:H	2:250:B:LEU:HD12	10	1.48
(1,3074)	2:239:B:LEU:HD13	2:144:B:GLU:HA	18	1.48
(1,4731)	2:246:B:TYR:H	2:250:B:LEU:HD11	5	1.47
(1,4731)	1:38:A:GLN:H	2:239:B:LEU:HD13	12	1.47
(1,3785)	2:149:B:ILE:HG21	1:9:A:GLU:HG3	11	1.47
(1,1718)	2:170:B:VAL:HG22	1:19:A:THR:H	6	1.47
(1,4731)	1:38:A:GLN:H	2:239:B:LEU:HD12	17	1.46
(1,3785)	2:149:B:ILE:HG22	1:9:A:GLU:HG3	19	1.46
(1,2964)	2:149:B:ILE:HD12	1:37:A:GLN:HA	10	1.46
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD23	11	1.45
(1,2964)	2:149:B:ILE:HD11	1:37:A:GLN:HA	3	1.45
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD11	20	1.44
(1,3785)	2:149:B:ILE:HG23	1:9:A:GLU:HG3	5	1.44
(1,2964)	2:149:B:ILE:HD11	1:37:A:GLN:HA	4	1.44
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD21	18	1.43
(1,3716)	1:3:A:ARG:HD3	1:21:A:GLU:HG3	20	1.43
(1,3074)	2:143:B:ILE:HD13	2:144:B:GLU:HA	5	1.43
(1,656)	1:27:A:ILE:HD11	1:39:A:VAL:H	8	1.43
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD21	4	1.42
(1,4731)	2:246:B:TYR:H	2:250:B:LEU:HD11	11	1.42
(1,4731)	2:246:B:TYR:H	2:250:B:LEU:HD12	13	1.42
(1,3074)	2:239:B:LEU:HD12	2:144:B:GLU:HA	15	1.42
(1,5846)	2:229:B:LEU:HG	1:18:A:LEU:HD12	10	1.41
(1,4731)	2:246:B:TYR:H	2:250:B:LEU:HD11	1	1.41
(1,4731)	2:246:B:TYR:H	2:250:B:LEU:HD13	16	1.41
(1,4731)	1:38:A:GLN:H	2:239:B:LEU:HD12	19	1.41
(1,3785)	1:16:A:VAL:HG21	1:9:A:GLU:HG3	2	1.41
(1,946)	2:171:B:PRO:HD2	2:181:B:ILE:H	12	1.41
(1,5182)	1:9:A:GLU:H	1:17:A:VAL:HG22	2	1.39
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD13	6	1.39
(1,4731)	1:38:A:GLN:H	2:239:B:LEU:HD13	7	1.39
(1,3785)	1:16:A:VAL:HG22	1:9:A:GLU:HG3	4	1.39
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD22	3	1.38
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD21	17	1.38
(1,3785)	1:16:A:VAL:HG23	1:9:A:GLU:HG3	3	1.38
(1,3785)	2:149:B:ILE:HG22	1:9:A:GLU:HG3	6	1.38
(1,3716)	2:148:B:ASP:HB3	2:144:B:GLU:HG3	14	1.38
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD23	5	1.37
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD21	6	1.37
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD21	9	1.37
(1,3074)	2:239:B:LEU:HD12	2:144:B:GLU:HA	9	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3074)	2:143:B:ILE:HD13	2:144:B:GLU:HA	10	1.37
(1,2964)	2:149:B:ILE:HD11	1:9:A:GLU:HA	13	1.37
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD11	5	1.36
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD22	8	1.36
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG22	9	1.36
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG11	1	1.36
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD11	1	1.36
(1,3074)	2:239:B:LEU:HD11	2:144:B:GLU:HA	12	1.36
(1,1718)	1:3:A:ARG:HB3	1:19:A:THR:H	17	1.36
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG21	3	1.35
(1,5182)	1:9:A:GLU:H	1:17:A:VAL:HG22	14	1.35
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD12	3	1.35
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD21	2	1.35
(1,3074)	2:239:B:LEU:HD11	2:144:B:GLU:HA	3	1.35
(1,3074)	2:239:B:LEU:HD13	2:144:B:GLU:HA	19	1.35
(1,1705)	2:219:B:ILE:HG13	2:222:B:ASN:HD21	13	1.35
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	7	1.35
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD21	10	1.34
(1,4922)	2:219:B:ILE:HA	2:208:B:LEU:HD11	17	1.34
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD22	16	1.34
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD11	2	1.34
(1,4006)	1:6:A:ILE:HG21	1:37:A:GLN:HG3	6	1.34
(1,3074)	2:239:B:LEU:HD13	2:144:B:GLU:HA	17	1.34
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD23	10	1.33
(1,4731)	2:246:B:TYR:H	2:250:B:LEU:HD11	4	1.33
(1,2964)	2:149:B:ILE:HD12	1:9:A:GLU:HA	8	1.33
(1,2964)	2:149:B:ILE:HD13	1:37:A:GLN:HA	16	1.33
(1,656)	1:6:A:ILE:HD13	1:39:A:VAL:H	14	1.33
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG12	3	1.32
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD21	13	1.32
(1,3785)	2:149:B:ILE:HG21	1:9:A:GLU:HG3	16	1.32
(1,3785)	2:149:B:ILE:HG23	1:9:A:GLU:HG3	20	1.32
(1,3074)	2:239:B:LEU:HD12	2:144:B:GLU:HA	1	1.32
(1,1718)	1:3:A:ARG:HB3	1:19:A:THR:H	11	1.32
(1,1718)	1:3:A:ARG:HB3	1:19:A:THR:H	16	1.32
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG22	1	1.31
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD23	5	1.31
(1,3785)	2:149:B:ILE:HG21	1:9:A:GLU:HG3	15	1.31
(1,2964)	2:149:B:ILE:HD11	1:9:A:GLU:HA	7	1.31
(1,1718)	1:3:A:ARG:HB3	1:19:A:THR:H	3	1.31
(1,1718)	1:3:A:ARG:HB3	1:19:A:THR:H	15	1.31
(1,5846)	2:229:B:LEU:HG	1:18:A:LEU:HD11	4	1.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG22	15	1.3
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG22	17	1.3
(1,4731)	2:246:B:TYR:H	2:250:B:LEU:HD13	14	1.3
(1,3785)	1:16:A:VAL:HG22	1:9:A:GLU:HG3	18	1.3
(1,1705)	2:219:B:ILE:HG13	2:222:B:ASN:HD21	9	1.3
(1,656)	1:27:A:ILE:HD13	1:39:A:VAL:H	10	1.3
(1,5846)	2:229:B:LEU:HG	1:18:A:LEU:HD11	6	1.29
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD22	17	1.29
(1,5182)	1:9:A:GLU:H	1:17:A:VAL:HG21	20	1.29
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD21	1	1.29
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG11	14	1.29
(1,4731)	1:38:A:GLN:H	2:239:B:LEU:HD12	20	1.29
(1,3785)	2:149:B:ILE:HG21	1:9:A:GLU:HG3	10	1.29
(1,2964)	2:149:B:ILE:HD13	1:37:A:GLN:HA	14	1.29
(1,1718)	1:3:A:ARG:HB3	1:19:A:THR:H	18	1.29
(1,5846)	2:229:B:LEU:HG	1:18:A:LEU:HD12	9	1.28
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG21	10	1.28
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG22	18	1.28
(1,4818)	2:163:B:PHE:HE1	2:152:B:LEU:HD12	11	1.28
(1,3716)	1:3:A:ARG:HD2	1:21:A:GLU:HG3	19	1.28
(1,2964)	2:149:B:ILE:HD11	1:37:A:GLN:HA	2	1.28
(1,1705)	2:217:B:ARG:HG3	2:222:B:ASN:HD21	17	1.28
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	9	1.28
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG22	11	1.27
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB1	7	1.27
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG22	7	1.27
(1,4922)	2:219:B:ILE:HA	2:208:B:LEU:HD13	14	1.27
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD21	7	1.27
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD21	10	1.27
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD23	16	1.27
(1,4731)	2:246:B:TYR:H	2:250:B:LEU:HD12	15	1.27
(1,656)	1:27:A:ILE:HD13	1:39:A:VAL:H	20	1.27
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG23	19	1.26
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG23	3	1.26
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG23	16	1.26
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG13	2	1.26
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD11	9	1.26
(1,2721)	2:244:B:LEU:HD21	1:20:A:SER:HA	13	1.26
(1,2721)	1:4:A:LEU:HD21	1:20:A:SER:HA	17	1.26
(1,2721)	1:4:A:LEU:HD23	1:20:A:SER:HA	20	1.26
(1,1718)	2:170:B:VAL:HG22	1:19:A:THR:H	4	1.26
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	19	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,656)	1:27:A:ILE:HD11	1:39:A:VAL:H	19	1.26
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD21	1	1.25
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	7	1.25
(1,4006)	1:7:A:ILE:HG22	1:37:A:GLN:HG3	10	1.25
(1,3074)	2:239:B:LEU:HD12	2:144:B:GLU:HA	6	1.25
(1,3074)	2:239:B:LEU:HD12	2:144:B:GLU:HA	8	1.25
(1,2964)	2:149:B:ILE:HD13	1:37:A:GLN:HA	12	1.25
(1,2964)	2:149:B:ILE:HD11	1:9:A:GLU:HA	17	1.25
(1,1718)	2:170:B:VAL:HG22	1:19:A:THR:H	19	1.25
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD12	15	1.24
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD21	14	1.24
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD21	19	1.24
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD21	12	1.24
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD23	13	1.24
(1,4731)	2:246:B:TYR:H	2:250:B:LEU:HD13	9	1.24
(1,3074)	2:239:B:LEU:HD13	2:144:B:GLU:HA	14	1.24
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD21	12	1.23
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD21	20	1.23
(1,3785)	2:149:B:ILE:HG21	1:9:A:GLU:HG3	8	1.23
(1,3716)	1:3:A:ARG:HD2	1:21:A:GLU:HG3	15	1.23
(1,3453)	2:185:B:LYS:HB2	2:185:B:LYS:HE3	10	1.23
(1,3074)	2:239:B:LEU:HD13	2:144:B:GLU:HA	11	1.23
(1,2721)	1:4:A:LEU:HD21	1:20:A:SER:HA	19	1.23
(1,1175)	2:227:B:ILE:HD12	2:223:B:ARG:H	4	1.23
(1,5467)	2:224:B:LYS:H	2:161:B:ILE:HG21	13	1.22
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG23	19	1.22
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD21	18	1.22
(1,1705)	2:219:B:ILE:HG13	2:222:B:ASN:HD21	12	1.22
(1,1413)	1:31:A:LYS:HE2	1:33:A:MET:H	5	1.22
(1,1413)	1:31:A:LYS:HE3	1:33:A:MET:H	8	1.22
(1,1144)	2:161:B:ILE:HD13	2:157:B:GLN:H	3	1.22
(1,656)	1:6:A:ILE:HD12	1:39:A:VAL:H	3	1.22
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD11	20	1.21
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD12	13	1.21
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD13	12	1.21
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD21	7	1.21
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG11	18	1.21
(1,4743)	2:226:B:ILE:H	2:229:B:LEU:HD13	7	1.21
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD13	12	1.21
(1,4006)	1:7:A:ILE:HG23	1:37:A:GLN:HG3	15	1.21
(1,3785)	1:16:A:VAL:HG21	1:9:A:GLU:HG3	14	1.21
(1,1718)	2:170:B:VAL:HG22	1:19:A:THR:H	13	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1155)	2:226:B:ILE:HD13	2:225:B:TYR:H	4	1.21
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD13	1	1.2
(1,5631)	2:144:B:GLU:HG2	2:143:B:ILE:HG21	8	1.2
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG23	2	1.2
(1,5378)	2:229:B:LEU:HD12	2:184:B:ALA:HB2	9	1.2
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD22	11	1.2
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG22	9	1.2
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD21	2	1.2
(1,4006)	1:7:A:ILE:HG22	1:37:A:GLN:HG3	7	1.2
(1,3716)	1:3:A:ARG:HD2	1:21:A:GLU:HG3	7	1.2
(1,2964)	2:149:B:ILE:HD11	1:37:A:GLN:HA	11	1.2
(1,1144)	2:161:B:ILE:HD11	2:157:B:GLN:H	18	1.2
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB1	16	1.19
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG21	12	1.19
(1,4743)	2:226:B:ILE:H	2:229:B:LEU:HD11	2	1.19
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD11	16	1.19
(1,3785)	1:16:A:VAL:HG21	1:9:A:GLU:HG3	9	1.19
(1,3274)	2:227:B:ILE:HD13	2:223:B:ARG:HD3	8	1.19
(1,2964)	2:149:B:ILE:HD11	1:37:A:GLN:HA	18	1.19
(1,1718)	2:170:B:VAL:HG22	1:19:A:THR:H	5	1.19
(1,1144)	2:161:B:ILE:HD11	2:157:B:GLN:H	12	1.19
(1,946)	2:171:B:PRO:HD2	2:181:B:ILE:H	16	1.19
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG12	4	1.18
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG23	6	1.18
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB3	11	1.18
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG21	13	1.18
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD23	13	1.18
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD13	19	1.18
(1,4731)	1:38:A:GLN:H	2:239:B:LEU:HD11	8	1.18
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	11	1.18
(1,3453)	2:224:B:LYS:HB3	2:169:B:ASN:HB2	20	1.18
(1,1718)	1:3:A:ARG:HB3	1:19:A:THR:H	2	1.18
(1,1718)	1:3:A:ARG:HB3	1:19:A:THR:H	14	1.18
(1,1144)	2:149:B:ILE:HG23	2:154:B:LYS:H	8	1.18
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD13	12	1.17
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD11	14	1.17
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG22	8	1.17
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD12	4	1.17
(1,5325)	2:167:B:VAL:HB	1:16:A:VAL:HG23	12	1.17
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD23	11	1.17
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG12	13	1.17
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD12	14	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3785)	1:16:A:VAL:HG21	1:9:A:GLU:HG3	7	1.17
(1,3272)	2:203:B:ILE:HD13	2:223:B:ARG:HD3	2	1.17
(1,3272)	2:203:B:ILE:HD11	2:223:B:ARG:HD3	8	1.17
(1,3074)	2:239:B:LEU:HD12	2:144:B:GLU:HA	4	1.17
(1,2372)	2:244:B:LEU:HD13	2:181:B:ILE:HD12	8	1.17
(1,1413)	1:20:A:SER:HB3	1:3:A:ARG:HE	1	1.17
(1,1155)	2:203:B:ILE:HD13	2:225:B:TYR:H	7	1.17
(1,946)	2:171:B:PRO:HD2	2:181:B:ILE:H	15	1.17
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD12	3	1.16
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB1	2	1.16
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD21	4	1.16
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD13	20	1.16
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD23	20	1.16
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG11	4	1.16
(1,4006)	1:7:A:ILE:HG21	1:37:A:GLN:HG3	2	1.16
(1,3785)	2:149:B:ILE:HG21	1:9:A:GLU:HG3	12	1.16
(1,3453)	2:224:B:LYS:HB3	2:169:B:ASN:HB2	3	1.16
(1,3074)	2:239:B:LEU:HD12	2:144:B:GLU:HA	2	1.16
(1,2964)	2:149:B:ILE:HD11	1:37:A:GLN:HA	15	1.16
(1,656)	1:27:A:ILE:HD12	1:39:A:VAL:H	1	1.16
(1,656)	1:27:A:ILE:HD11	1:39:A:VAL:H	18	1.16
(1,5475)	2:187:B:LEU:H	2:226:B:ILE:HG23	12	1.15
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG22	12	1.15
(1,5378)	2:229:B:LEU:HD12	2:184:B:ALA:HB3	16	1.15
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG22	6	1.15
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD23	13	1.15
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD11	3	1.15
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD12	18	1.15
(1,3453)	2:241:B:LYS:HG2	2:185:B:LYS:HE2	17	1.15
(1,3274)	2:203:B:ILE:HG13	2:223:B:ARG:HD3	19	1.15
(1,2721)	1:4:A:LEU:HD21	1:20:A:SER:HA	18	1.15
(1,2372)	2:244:B:LEU:HD13	2:181:B:ILE:HD12	10	1.15
(1,2047)	2:203:B:ILE:HG23	2:208:B:LEU:H	7	1.15
(1,1718)	1:3:A:ARG:HB3	1:19:A:THR:H	9	1.15
(1,946)	2:182:B:ARG:HD3	2:181:B:ILE:H	20	1.15
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD12	17	1.14
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB2	5	1.14
(1,5451)	1:28:A:ARG:H	1:17:A:VAL:HG22	12	1.14
(1,5378)	2:229:B:LEU:HD13	2:184:B:ALA:HB2	15	1.14
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD11	16	1.14
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD23	12	1.14
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD22	14	1.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD22	17	1.14
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD11	16	1.14
(1,3074)	2:239:B:LEU:HD13	2:144:B:GLU:HA	13	1.14
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	14	1.14
(1,1144)	2:149:B:ILE:HG21	2:154:B:LYS:H	6	1.14
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD12	2	1.13
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD11	8	1.13
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD12	11	1.13
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD11	16	1.13
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG23	1	1.13
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG23	4	1.13
(1,5451)	1:28:A:ARG:H	1:17:A:VAL:HG21	20	1.13
(1,5378)	2:229:B:LEU:HD11	2:184:B:ALA:HB2	12	1.13
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD21	18	1.13
(1,4663)	2:226:B:ILE:HG22	2:229:B:LEU:HD22	17	1.13
(1,2964)	2:149:B:ILE:HD12	1:37:A:GLN:HA	9	1.13
(1,2721)	1:4:A:LEU:HD12	1:20:A:SER:HA	11	1.13
(1,2302)	2:171:B:PRO:HB3	2:181:B:ILE:HD11	11	1.13
(1,1155)	2:203:B:ILE:HD13	2:225:B:TYR:H	18	1.13
(1,1144)	2:149:B:ILE:HG23	2:154:B:LYS:H	2	1.13
(1,1144)	2:161:B:ILE:HD12	2:157:B:GLN:H	20	1.13
(1,946)	2:171:B:PRO:HD2	2:181:B:ILE:H	6	1.13
(1,656)	1:27:A:ILE:HD13	1:39:A:VAL:H	13	1.13
(1,5475)	2:229:B:LEU:H	2:226:B:ILE:HG22	16	1.12
(1,5475)	2:187:B:LEU:H	2:226:B:ILE:HG23	19	1.12
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB3	13	1.12
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG22	6	1.12
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG23	19	1.12
(1,5378)	2:229:B:LEU:HD11	2:184:B:ALA:HB2	11	1.12
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD22	19	1.12
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD13	11	1.12
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD12	15	1.12
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD13	19	1.12
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD22	2	1.12
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD23	18	1.12
(1,4731)	1:38:A:GLN:H	2:239:B:LEU:HD13	3	1.12
(1,3453)	2:166:B:LEU:HB3	2:169:B:ASN:HB2	1	1.12
(1,2964)	2:149:B:ILE:HD11	1:37:A:GLN:HA	5	1.12
(1,2372)	2:244:B:LEU:HD11	2:181:B:ILE:HD12	4	1.12
(1,2372)	2:244:B:LEU:HD12	2:181:B:ILE:HD12	17	1.12
(1,1528)	1:25:A:LEU:HD13	1:21:A:GLU:H	20	1.12
(1,1176)	1:35:A:VAL:HG13	2:148:B:ASP:H	2	1.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,656)	1:27:A:ILE:HD12	1:39:A:VAL:H	5	1.12
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG21	14	1.11
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB2	1	1.11
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB2	14	1.11
(1,5451)	1:28:A:ARG:H	1:17:A:VAL:HG23	9	1.11
(1,5378)	2:229:B:LEU:HD12	2:184:B:ALA:HB2	1	1.11
(1,5378)	2:229:B:LEU:HD11	2:184:B:ALA:HB1	6	1.11
(1,5325)	2:167:B:VAL:HB	1:16:A:VAL:HG22	14	1.11
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG23	17	1.11
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD12	3	1.11
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD12	4	1.11
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD13	10	1.11
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD11	15	1.11
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD13	17	1.11
(1,4663)	2:244:B:LEU:HD23	2:229:B:LEU:HD22	4	1.11
(1,4663)	2:244:B:LEU:HD22	2:229:B:LEU:HD23	12	1.11
(1,4546)	1:43:A:ASN:HB2	1:44:A:GLU:HB2	10	1.11
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD13	13	1.11
(1,3453)	2:241:B:LYS:HG2	2:185:B:LYS:HE2	6	1.11
(1,3453)	2:241:B:LYS:HG2	2:185:B:LYS:HE2	15	1.11
(1,3274)	2:227:B:ILE:HD12	2:223:B:ARG:HD3	2	1.11
(1,3274)	2:227:B:ILE:HD12	2:223:B:ARG:HD3	16	1.11
(1,2372)	2:244:B:LEU:HD13	2:181:B:ILE:HD13	15	1.11
(1,2372)	2:244:B:LEU:HD12	2:181:B:ILE:HD13	16	1.11
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	10	1.11
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	12	1.11
(1,656)	1:27:A:ILE:HD13	1:39:A:VAL:H	6	1.11
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD11	13	1.1
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD11	18	1.1
(1,5610)	2:205:B:ARG:HD3	2:203:B:ILE:HG23	17	1.1
(1,5475)	2:187:B:LEU:H	2:226:B:ILE:HG21	14	1.1
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB1	19	1.1
(1,5378)	2:229:B:LEU:HD13	2:184:B:ALA:HB3	17	1.1
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD21	15	1.1
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD12	5	1.1
(1,4663)	2:244:B:LEU:HD21	2:229:B:LEU:HD23	6	1.1
(1,4663)	2:226:B:ILE:HG23	2:229:B:LEU:HD23	9	1.1
(1,3272)	2:203:B:ILE:HD12	2:223:B:ARG:HD3	6	1.1
(1,2372)	2:229:B:LEU:HD21	2:181:B:ILE:HD13	3	1.1
(1,1718)	1:3:A:ARG:HB3	1:19:A:THR:H	7	1.1
(1,1144)	2:161:B:ILE:HD11	2:157:B:GLN:H	4	1.1
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG13	8	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG13	15	1.09
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD11	19	1.09
(1,5475)	2:229:B:LEU:H	2:226:B:ILE:HG22	8	1.09
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB1	18	1.09
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG22	7	1.09
(1,5378)	2:229:B:LEU:HD13	2:184:B:ALA:HB2	14	1.09
(1,5378)	2:229:B:LEU:HD11	2:184:B:ALA:HB2	19	1.09
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD23	3	1.09
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG21	5	1.09
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG21	8	1.09
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD21	9	1.09
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG11	6	1.09
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG13	16	1.09
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD12	15	1.09
(1,3967)	2:186:B:MET:HG2	2:211:B:LYS:HB2	8	1.09
(1,3074)	2:239:B:LEU:HD13	2:144:B:GLU:HA	20	1.09
(1,2964)	2:149:B:ILE:HD12	1:37:A:GLN:HA	6	1.09
(1,2721)	1:4:A:LEU:HD13	1:20:A:SER:HA	1	1.09
(1,2372)	2:229:B:LEU:HD21	2:181:B:ILE:HD13	5	1.09
(1,1705)	2:217:B:ARG:HG2	2:222:B:ASN:HD21	14	1.09
(1,1144)	2:161:B:ILE:HD13	2:157:B:GLN:H	15	1.09
(1,952)	2:153:B:LYS:HE2	2:153:B:LYS:H	4	1.09
(1,946)	2:182:B:ARG:HD2	2:181:B:ILE:H	8	1.09
(1,656)	1:27:A:ILE:HD13	1:39:A:VAL:H	4	1.09
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB1	10	1.08
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG21	2	1.08
(1,5378)	2:229:B:LEU:HD11	2:184:B:ALA:HB1	10	1.08
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD13	19	1.08
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD11	20	1.08
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	8	1.08
(1,3453)	2:166:B:LEU:HB3	2:169:B:ASN:HB2	4	1.08
(1,3453)	2:224:B:LYS:HB3	2:169:B:ASN:HB2	8	1.08
(1,3274)	2:227:B:ILE:HD12	2:223:B:ARG:HD3	13	1.08
(1,3074)	2:239:B:LEU:HD11	2:144:B:GLU:HA	7	1.08
(1,1991)	1:25:A:LEU:HD12	1:49:A:VAL:H	5	1.08
(1,1528)	1:25:A:LEU:HD12	1:21:A:GLU:H	13	1.08
(1,5475)	2:229:B:LEU:H	2:226:B:ILE:HG21	3	1.07
(1,5475)	2:229:B:LEU:H	2:226:B:ILE:HG23	17	1.07
(1,5378)	2:229:B:LEU:HD11	2:184:B:ALA:HB2	2	1.07
(1,5378)	2:229:B:LEU:HD13	2:184:B:ALA:HB1	7	1.07
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD21	10	1.07
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD21	20	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD22	8	1.07
(1,4770)	2:182:B:ARG:H	2:185:B:LYS:HG2	10	1.07
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD13	11	1.07
(1,4663)	2:226:B:ILE:HG21	2:229:B:LEU:HD22	16	1.07
(1,4663)	2:244:B:LEU:HD21	2:229:B:LEU:HD23	19	1.07
(1,2721)	1:4:A:LEU:HD23	1:20:A:SER:HA	7	1.07
(1,2721)	1:4:A:LEU:HD11	1:20:A:SER:HA	16	1.07
(1,2372)	2:244:B:LEU:HD11	2:181:B:ILE:HD12	11	1.07
(1,1991)	1:26:A:ILE:HD13	1:49:A:VAL:H	11	1.07
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	20	1.07
(1,5475)	2:187:B:LEU:H	2:226:B:ILE:HG21	4	1.06
(1,5475)	2:229:B:LEU:H	2:226:B:ILE:HG23	11	1.06
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG22	10	1.06
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG23	17	1.06
(1,5451)	1:28:A:ARG:H	1:17:A:VAL:HG22	14	1.06
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG23	17	1.06
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD11	9	1.06
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD12	8	1.06
(1,4962)	2:226:B:ILE:HA	2:229:B:LEU:HD13	17	1.06
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG13	19	1.06
(1,4663)	2:244:B:LEU:HD21	2:229:B:LEU:HD23	1	1.06
(1,4006)	1:7:A:ILE:HG21	1:37:A:GLN:HG3	12	1.06
(1,4006)	1:7:A:ILE:HG22	1:37:A:GLN:HG3	13	1.06
(1,4006)	1:7:A:ILE:HG22	1:37:A:GLN:HG3	17	1.06
(1,3453)	2:224:B:LYS:HB3	2:169:B:ASN:HB2	16	1.06
(1,1528)	1:25:A:LEU:HD12	1:21:A:GLU:H	4	1.06
(1,1528)	1:25:A:LEU:HD13	1:21:A:GLU:H	14	1.06
(1,1176)	1:35:A:VAL:HG12	2:148:B:ASP:H	14	1.06
(1,1155)	2:203:B:ILE:HD13	2:225:B:TYR:H	1	1.06
(1,1144)	2:161:B:ILE:HD13	2:157:B:GLN:H	9	1.06
(1,5475)	2:187:B:LEU:H	2:226:B:ILE:HG23	6	1.05
(1,5475)	2:229:B:LEU:H	2:226:B:ILE:HG23	15	1.05
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB2	9	1.05
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG22	18	1.05
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD11	15	1.05
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD23	7	1.05
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD13	14	1.05
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD12	11	1.05
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD12	14	1.05
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD11	19	1.05
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD11	18	1.05
(1,4220)	2:215:B:HIS:HB2	2:219:B:ILE:HG13	11	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4220)	2:146:B:ARG:HD2	1:34:A:LYS:HD3	20	1.05
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	13	1.05
(1,3967)	2:193:B:MET:HG2	2:211:B:LYS:HB2	4	1.05
(1,3716)	1:3:A:ARG:HD2	1:21:A:GLU:HG3	13	1.05
(1,3453)	2:241:B:LYS:HG3	2:185:B:LYS:HE2	13	1.05
(1,3453)	2:241:B:LYS:HG2	2:185:B:LYS:HE2	19	1.05
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD11	17	1.05
(1,946)	2:171:B:PRO:HD2	2:181:B:ILE:H	3	1.05
(1,5475)	2:229:B:LEU:H	2:226:B:ILE:HG23	2	1.04
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG21	7	1.04
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG21	20	1.04
(1,5378)	2:229:B:LEU:HD12	2:184:B:ALA:HB3	20	1.04
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD13	7	1.04
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG12	12	1.04
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG23	11	1.04
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD13	10	1.04
(1,3967)	1:32:A:ASP:HB3	1:31:A:LYS:HB2	20	1.04
(1,3272)	2:203:B:ILE:HD13	2:223:B:ARG:HD3	16	1.04
(1,3216)	1:50:A:ARG:HA	1:50:A:ARG:HD2	13	1.04
(1,2964)	2:149:B:ILE:HD13	1:37:A:GLN:HA	19	1.04
(1,2721)	1:4:A:LEU:HD22	1:20:A:SER:HA	9	1.04
(1,2372)	2:229:B:LEU:HD23	2:181:B:ILE:HD12	18	1.04
(1,2372)	2:229:B:LEU:HD23	2:181:B:ILE:HD12	19	1.04
(1,2362)	2:231:B:LEU:HD22	2:232:B:ILE:HA	2	1.04
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	1	1.04
(1,1144)	2:161:B:ILE:HD12	2:157:B:GLN:H	7	1.04
(1,5640)	2:183:B:LEU:HG	2:218:B:THR:HB	1	1.03
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB2	3	1.03
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB1	20	1.03
(1,5451)	1:28:A:ARG:H	1:17:A:VAL:HG23	1	1.03
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG23	16	1.03
(1,5378)	2:229:B:LEU:HD13	2:184:B:ALA:HB3	5	1.03
(1,5378)	2:229:B:LEU:HD13	2:184:B:ALA:HB1	18	1.03
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD23	12	1.03
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD11	19	1.03
(1,5052)	2:167:B:VAL:HG13	2:170:B:VAL:HG12	9	1.03
(1,4818)	2:163:B:PHE:HE1	2:152:B:LEU:HD12	8	1.03
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD11	7	1.03
(1,4006)	1:7:A:ILE:HG22	1:37:A:GLN:HG3	14	1.03
(1,3967)	1:32:A:ASP:HB3	1:31:A:LYS:HB2	12	1.03
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	4	1.03
(1,2372)	2:229:B:LEU:HD21	2:181:B:ILE:HD13	20	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1718)	1:25:A:LEU:HD22	1:19:A:THR:H	8	1.03
(1,1705)	2:223:B:ARG:HG2	2:222:B:ASN:HD21	18	1.03
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	6	1.03
(1,1144)	2:161:B:ILE:HD12	2:157:B:GLN:H	19	1.03
(1,679)	2:231:B:LEU:HD21	2:158:B:GLU:H	20	1.03
(1,5475)	2:187:B:LEU:H	2:226:B:ILE:HG23	9	1.02
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB2	6	1.02
(1,5378)	2:229:B:LEU:HD12	2:184:B:ALA:HB2	3	1.02
(1,5325)	2:167:B:VAL:HB	1:16:A:VAL:HG22	7	1.02
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD11	6	1.02
(1,4818)	2:163:B:PHE:HE2	2:152:B:LEU:HD12	14	1.02
(1,4818)	2:163:B:PHE:HE1	2:152:B:LEU:HD11	16	1.02
(1,4743)	2:226:B:ILE:H	2:229:B:LEU:HD13	5	1.02
(1,4663)	2:244:B:LEU:HD23	2:229:B:LEU:HD21	20	1.02
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD12	6	1.02
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD12	10	1.02
(1,3967)	1:32:A:ASP:HB3	1:31:A:LYS:HB2	10	1.02
(1,3967)	2:193:B:MET:HG2	2:211:B:LYS:HB2	16	1.02
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	9	1.02
(1,3319)	2:246:B:TYR:H	2:185:B:LYS:HE3	8	1.02
(1,3088)	2:183:B:LEU:HD23	2:212:B:ALA:HA	20	1.02
(1,2372)	2:229:B:LEU:HD23	2:181:B:ILE:HD11	13	1.02
(1,2362)	2:231:B:LEU:HD22	2:232:B:ILE:HA	20	1.02
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD13	8	1.02
(1,1528)	1:25:A:LEU:HD13	1:21:A:GLU:H	2	1.02
(1,1413)	1:31:A:LYS:HE3	1:33:A:MET:H	12	1.02
(1,656)	1:27:A:ILE:HD13	1:39:A:VAL:H	11	1.02
(1,5610)	2:205:B:ARG:HD3	2:203:B:ILE:HG22	10	1.01
(1,5610)	2:205:B:ARG:HD3	2:203:B:ILE:HG23	20	1.01
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB3	4	1.01
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG23	3	1.01
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD22	9	1.01
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD13	12	1.01
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG21	13	1.01
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD11	20	1.01
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD23	4	1.01
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD22	19	1.01
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD21	15	1.01
(1,4770)	2:182:B:ARG:H	2:185:B:LYS:HG2	2	1.01
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG12	3	1.01
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD13	4	1.01
(1,3272)	2:203:B:ILE:HD13	2:223:B:ARG:HD3	13	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2467)	2:232:B:ILE:HG12	2:233:B:PHE:HA	3	1.01
(1,2362)	2:231:B:LEU:HD21	2:232:B:ILE:HA	4	1.01
(1,2362)	2:231:B:LEU:HD22	2:232:B:ILE:HA	5	1.01
(1,2362)	2:231:B:LEU:HD21	2:232:B:ILE:HA	10	1.01
(1,1834)	2:199:B:LYS:HB2	2:202:B:ASN:H	19	1.01
(1,1528)	1:25:A:LEU:HD11	1:21:A:GLU:H	7	1.01
(1,1528)	2:244:B:LEU:HD23	1:21:A:GLU:H	9	1.01
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	11	1.01
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	18	1.01
(1,952)	2:153:B:LYS:HE2	2:153:B:LYS:H	18	1.01
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG11	7	1.0
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG22	2	1.0
(1,5384)	2:156:B:LEU:HD21	2:162:B:THR:HG23	13	1.0
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG11	20	1.0
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD11	20	1.0
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG12	8	1.0
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG12	15	1.0
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD13	6	1.0
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD12	18	1.0
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD23	19	1.0
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD12	9	1.0
(1,4265)	2:219:B:ILE:HG21	2:205:B:ARG:HB2	16	1.0
(1,4006)	1:7:A:ILE:HG23	1:37:A:GLN:HG3	5	1.0
(1,3278)	2:219:B:ILE:HG21	2:205:B:ARG:HD3	1	1.0
(1,3274)	2:227:B:ILE:HD13	2:223:B:ARG:HD3	6	1.0
(1,3074)	2:239:B:LEU:HD11	2:144:B:GLU:HA	16	1.0
(1,2047)	2:203:B:ILE:HG21	2:208:B:LEU:H	16	1.0
(1,1739)	2:219:B:ILE:HG23	2:222:B:ASN:H	14	1.0
(1,1718)	1:3:A:ARG:HB3	1:19:A:THR:H	10	1.0
(1,1718)	1:3:A:ARG:HB3	1:19:A:THR:H	20	1.0
(1,1413)	1:31:A:LYS:HE3	1:33:A:MET:H	18	1.0
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	13	1.0
(1,1155)	2:203:B:ILE:HD12	2:225:B:TYR:H	3	1.0
(1,656)	1:27:A:ILE:HD11	1:39:A:VAL:H	7	1.0
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG11	11	0.99
(1,5631)	1:37:A:GLN:HB2	2:143:B:ILE:HG22	12	0.99
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG23	13	0.99
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG22	16	0.99
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB1	12	0.99
(1,5378)	2:229:B:LEU:HD11	2:184:B:ALA:HB2	4	0.99
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD13	8	0.99
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD13	14	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD21	14	0.99
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG12	6	0.99
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD12	12	0.99
(1,4818)	2:163:B:PHE:HE2	2:152:B:LEU:HD11	13	0.99
(1,4663)	2:244:B:LEU:HD23	2:229:B:LEU:HD22	14	0.99
(1,4663)	2:244:B:LEU:HD23	2:229:B:LEU:HD23	18	0.99
(1,4560)	1:20:A:SER:HB3	1:3:A:ARG:HG2	20	0.99
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD13	4	0.99
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD12	17	0.99
(1,4006)	1:7:A:ILE:HG21	1:37:A:GLN:HG3	4	0.99
(1,3967)	1:32:A:ASP:HB3	1:31:A:LYS:HB2	7	0.99
(1,3967)	2:193:B:MET:HG2	2:211:B:LYS:HB2	18	0.99
(1,3457)	2:179:B:LEU:HB3	2:175:B:ASP:HB3	19	0.99
(1,3278)	2:219:B:ILE:HG23	2:205:B:ARG:HD3	16	0.99
(1,2309)	2:223:B:ARG:HG3	2:203:B:ILE:HD12	19	0.99
(1,2024)	2:218:B:THR:HG23	2:180:B:CYS:H	9	0.99
(1,1528)	1:25:A:LEU:HD11	1:21:A:GLU:H	18	0.99
(1,1528)	1:25:A:LEU:HD12	1:21:A:GLU:H	19	0.99
(1,1458)	2:211:B:LYS:HD2	2:212:B:ALA:H	13	0.99
(1,1458)	2:211:B:LYS:HD2	2:212:B:ALA:H	15	0.99
(1,1176)	1:35:A:VAL:HG12	2:148:B:ASP:H	17	0.99
(1,1155)	2:203:B:ILE:HD13	2:225:B:TYR:H	6	0.99
(1,5633)	2:222:B:ASN:HB3	2:226:B:ILE:HG21	16	0.98
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB3	5	0.98
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG21	6	0.98
(1,5475)	2:187:B:LEU:H	2:226:B:ILE:HG22	1	0.98
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB1	8	0.98
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG21	5	0.98
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD12	20	0.98
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD12	4	0.98
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD13	10	0.98
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG13	5	0.98
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD12	3	0.98
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD11	14	0.98
(1,4265)	2:219:B:ILE:HG23	2:205:B:ARG:HB2	2	0.98
(1,4220)	2:146:B:ARG:HD2	1:34:A:LYS:HD3	18	0.98
(1,3088)	2:214:B:VAL:HG11	2:212:B:ALA:HA	16	0.98
(1,2721)	1:4:A:LEU:HD13	1:20:A:SER:HA	14	0.98
(1,1991)	1:25:A:LEU:HD11	1:49:A:VAL:H	13	0.98
(1,1837)	1:4:A:LEU:HD13	1:20:A:SER:H	6	0.98
(1,1528)	1:25:A:LEU:HD13	1:21:A:GLU:H	1	0.98
(1,1458)	2:208:B:LEU:HB2	2:212:B:ALA:H	5	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1144)	2:161:B:ILE:HD11	2:157:B:GLN:H	5	0.98
(1,656)	1:6:A:ILE:HD12	1:39:A:VAL:H	9	0.98
(1,656)	1:27:A:ILE:HD12	1:39:A:VAL:H	16	0.98
(1,5940)	1:39:A:VAL:HG11	1:17:A:VAL:HG22	3	0.97
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG23	9	0.97
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG22	18	0.97
(1,5633)	2:186:B:MET:HG2	2:226:B:ILE:HG23	9	0.97
(1,5475)	2:187:B:LEU:H	2:226:B:ILE:HG21	10	0.97
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG22	18	0.97
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD22	16	0.97
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD13	17	0.97
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD11	1	0.97
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD11	14	0.97
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD11	19	0.97
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD21	4	0.97
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG13	8	0.97
(1,4639)	2:214:B:VAL:HG12	2:213:B:LYS:HB3	3	0.97
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD13	19	0.97
(1,4265)	2:219:B:ILE:HG23	2:205:B:ARG:HB2	20	0.97
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	6	0.97
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	12	0.97
(1,2721)	1:4:A:LEU:HD23	1:20:A:SER:HA	2	0.97
(1,2362)	2:231:B:LEU:HD22	2:232:B:ILE:HA	6	0.97
(1,2302)	2:185:B:LYS:HB2	2:181:B:ILE:HD11	7	0.97
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD12	11	0.97
(1,1834)	2:199:B:LYS:HB2	2:202:B:ASN:H	4	0.97
(1,1144)	2:161:B:ILE:HD11	2:157:B:GLN:H	1	0.97
(1,679)	2:231:B:LEU:HD23	2:158:B:GLU:H	4	0.97
(1,679)	2:161:B:ILE:HG13	2:158:B:GLU:H	15	0.97
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG11	5	0.96
(1,5669)	2:181:B:ILE:HD12	2:248:B:THR:HB	6	0.96
(1,5669)	2:181:B:ILE:HD12	2:248:B:THR:HB	20	0.96
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG23	17	0.96
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG23	20	0.96
(1,5640)	2:183:B:LEU:HG	2:218:B:THR:HB	7	0.96
(1,5547)	2:147:B:GLU:HA	2:145:B:ALA:HB2	8	0.96
(1,5475)	2:187:B:LEU:H	2:226:B:ILE:HG23	5	0.96
(1,5475)	2:187:B:LEU:H	2:226:B:ILE:HG23	18	0.96
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG21	5	0.96
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD12	3	0.96
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD12	16	0.96
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD13	2	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD13	13	0.96
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD22	12	0.96
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD13	7	0.96
(1,4743)	2:181:B:ILE:H	2:229:B:LEU:HD12	17	0.96
(1,4639)	2:149:B:ILE:HG23	2:150:B:GLU:HB2	8	0.96
(1,4639)	2:214:B:VAL:HG12	2:213:B:LYS:HB3	12	0.96
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	1	0.96
(1,3274)	2:203:B:ILE:HG13	2:223:B:ARG:HD3	14	0.96
(1,2372)	2:229:B:LEU:HD22	2:181:B:ILE:HD13	7	0.96
(1,2372)	2:229:B:LEU:HD22	2:181:B:ILE:HD12	9	0.96
(1,2362)	2:231:B:LEU:HD21	2:232:B:ILE:HA	3	0.96
(1,2300)	2:177:B:ARG:HG2	2:181:B:ILE:HD13	14	0.96
(1,2024)	2:218:B:THR:HG23	2:180:B:CYS:H	15	0.96
(1,1155)	2:226:B:ILE:HD13	2:225:B:TYR:H	9	0.96
(1,1155)	2:203:B:ILE:HD11	2:225:B:TYR:H	12	0.96
(1,679)	2:161:B:ILE:HG13	2:158:B:GLU:H	17	0.96
(1,258)	2:144:B:GLU:HB3	2:237:B:LEU:H	5	0.96
(1,5669)	2:181:B:ILE:HD12	2:248:B:THR:HB	12	0.95
(1,5547)	2:147:B:GLU:HA	2:145:B:ALA:HB1	13	0.95
(1,5475)	2:187:B:LEU:H	2:226:B:ILE:HG21	20	0.95
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG23	1	0.95
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD22	2	0.95
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD23	5	0.95
(1,5308)	2:186:B:MET:HG2	2:184:B:ALA:HB2	7	0.95
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD13	2	0.95
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG11	10	0.95
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG12	16	0.95
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD12	7	0.95
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD12	14	0.95
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD12	1	0.95
(1,4922)	2:219:B:ILE:HA	2:208:B:LEU:HD12	5	0.95
(1,4818)	2:163:B:PHE:HE2	2:152:B:LEU:HD13	7	0.95
(1,4818)	2:163:B:PHE:HE1	2:152:B:LEU:HD13	15	0.95
(1,4220)	2:215:B:HIS:HB2	2:219:B:ILE:HG13	3	0.95
(1,4220)	2:215:B:HIS:HB2	2:219:B:ILE:HG13	15	0.95
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	3	0.95
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	1	0.95
(1,3274)	2:227:B:ILE:HD13	2:223:B:ARG:HD3	4	0.95
(1,2964)	2:149:B:ILE:HD13	1:37:A:GLN:HA	1	0.95
(1,2362)	2:231:B:LEU:HD21	2:232:B:ILE:HA	8	0.95
(1,2362)	2:231:B:LEU:HD21	2:232:B:ILE:HA	17	0.95
(1,1837)	1:4:A:LEU:HD12	1:20:A:SER:H	19	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1528)	1:25:A:LEU:HD13	1:21:A:GLU:H	5	0.95
(1,1155)	2:203:B:ILE:HD11	2:225:B:TYR:H	10	0.95
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG12	14	0.94
(1,5669)	2:181:B:ILE:HD13	2:248:B:THR:HB	1	0.94
(1,5669)	2:181:B:ILE:HD11	2:248:B:THR:HB	9	0.94
(1,5669)	2:181:B:ILE:HD11	2:248:B:THR:HB	19	0.94
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG23	18	0.94
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG22	16	0.94
(1,5378)	2:229:B:LEU:HD11	2:184:B:ALA:HB2	8	0.94
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD12	6	0.94
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD11	9	0.94
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD12	11	0.94
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD21	16	0.94
(1,4818)	2:163:B:PHE:HE2	2:152:B:LEU:HD13	1	0.94
(1,4770)	2:182:B:ARG:H	2:185:B:LYS:HG2	8	0.94
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG13	9	0.94
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD13	1	0.94
(1,4006)	1:7:A:ILE:HG23	1:37:A:GLN:HG3	3	0.94
(1,4006)	1:7:A:ILE:HG22	1:37:A:GLN:HG3	8	0.94
(1,3453)	2:166:B:LEU:HB3	2:169:B:ASN:HB2	9	0.94
(1,3274)	2:227:B:ILE:HD13	2:223:B:ARG:HD3	9	0.94
(1,2721)	2:244:B:LEU:HD22	1:20:A:SER:HA	15	0.94
(1,1528)	1:25:A:LEU:HD11	1:21:A:GLU:H	16	0.94
(1,1458)	2:211:B:LYS:HD2	2:212:B:ALA:H	6	0.94
(1,1132)	2:164:B:LEU:HD23	2:164:B:LEU:H	9	0.94
(1,952)	2:153:B:LYS:HE2	2:153:B:LYS:H	16	0.94
(1,946)	2:182:B:ARG:HD3	2:181:B:ILE:H	9	0.94
(1,662)	1:16:A:VAL:HG12	1:16:A:VAL:H	16	0.94
(1,656)	1:27:A:ILE:HD11	1:39:A:VAL:H	2	0.94
(1,5669)	2:181:B:ILE:HD11	2:248:B:THR:HB	16	0.93
(1,5669)	2:181:B:ILE:HD11	2:248:B:THR:HB	18	0.93
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG22	1	0.93
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG22	8	0.93
(1,5610)	2:205:B:ARG:HD3	2:203:B:ILE:HG22	15	0.93
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG23	19	0.93
(1,5475)	2:229:B:LEU:H	2:226:B:ILE:HG21	7	0.93
(1,5475)	2:187:B:LEU:H	2:226:B:ILE:HG22	13	0.93
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG21	8	0.93
(1,5384)	2:156:B:LEU:HD23	2:162:B:THR:HG21	14	0.93
(1,5378)	2:229:B:LEU:HD12	2:184:B:ALA:HB3	13	0.93
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD13	17	0.93
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG13	13	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD12	8	0.93
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD13	12	0.93
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG11	7	0.93
(1,4663)	2:244:B:LEU:HD21	2:229:B:LEU:HD21	2	0.93
(1,4006)	1:7:A:ILE:HG22	1:37:A:GLN:HG3	18	0.93
(1,3943)	2:195:B:ASN:HB3	2:192:B:GLN:HG3	2	0.93
(1,3457)	2:179:B:LEU:HB3	2:175:B:ASP:HB3	16	0.93
(1,3453)	2:166:B:LEU:HB3	2:169:B:ASN:HB2	18	0.93
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	16	0.93
(1,3275)	2:203:B:ILE:HG13	2:223:B:ARG:HD2	13	0.93
(1,3274)	2:227:B:ILE:HD12	2:223:B:ARG:HD3	7	0.93
(1,3274)	2:203:B:ILE:HG13	2:223:B:ARG:HD3	12	0.93
(1,3088)	2:214:B:VAL:HG11	2:212:B:ALA:HA	13	0.93
(1,2362)	2:237:B:LEU:HD11	2:232:B:ILE:HA	14	0.93
(1,2302)	2:185:B:LYS:HB2	2:181:B:ILE:HD11	5	0.93
(1,2047)	2:203:B:ILE:HG23	2:208:B:LEU:H	4	0.93
(1,1834)	2:203:B:ILE:HB	2:202:B:ASN:H	1	0.93
(1,1834)	2:203:B:ILE:HB	2:202:B:ASN:H	14	0.93
(1,1528)	1:25:A:LEU:HD12	1:21:A:GLU:H	3	0.93
(1,1413)	1:20:A:SER:HB3	1:3:A:ARG:HE	3	0.93
(1,1144)	2:161:B:ILE:HD11	2:157:B:GLN:H	10	0.93
(1,946)	2:171:B:PRO:HD2	2:181:B:ILE:H	1	0.93
(1,679)	2:161:B:ILE:HG13	2:158:B:GLU:H	5	0.93
(1,662)	1:16:A:VAL:HG11	1:16:A:VAL:H	18	0.93
(1,662)	1:16:A:VAL:HG13	1:16:A:VAL:H	20	0.93
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	20	0.93
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG11	1	0.92
(1,5846)	1:6:A:ILE:HB	1:18:A:LEU:HD11	7	0.92
(1,5669)	2:181:B:ILE:HD11	2:248:B:THR:HB	2	0.92
(1,5669)	2:181:B:ILE:HD13	2:248:B:THR:HB	17	0.92
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG22	16	0.92
(1,5610)	2:205:B:ARG:HD3	2:203:B:ILE:HG21	14	0.92
(1,5389)	2:149:B:ILE:HD13	1:35:A:VAL:HG12	15	0.92
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD22	1	0.92
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD13	4	0.92
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG11	19	0.92
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD13	3	0.92
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD13	15	0.92
(1,4770)	2:182:B:ARG:H	2:185:B:LYS:HG2	6	0.92
(1,4663)	2:226:B:ILE:HG22	2:229:B:LEU:HD23	15	0.92
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD13	11	0.92
(1,4265)	2:219:B:ILE:HG22	2:205:B:ARG:HB2	4	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4262)	1:6:A:ILE:HG23	1:37:A:GLN:HB3	4	0.92
(1,4220)	2:215:B:HIS:HB2	2:219:B:ILE:HG13	9	0.92
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	9	0.92
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	12	0.92
(1,4006)	1:7:A:ILE:HG23	1:37:A:GLN:HG3	1	0.92
(1,3785)	2:149:B:ILE:HG22	1:9:A:GLU:HG3	13	0.92
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	15	0.92
(1,3453)	2:241:B:LYS:HG2	2:185:B:LYS:HE2	5	0.92
(1,3319)	2:246:B:TYR:H	2:185:B:LYS:HE3	3	0.92
(1,2362)	2:237:B:LEU:HD13	2:232:B:ILE:HA	15	0.92
(1,2362)	2:231:B:LEU:HD22	2:232:B:ILE:HA	18	0.92
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD13	8	0.92
(1,2024)	2:218:B:THR:HG21	2:180:B:CYS:H	17	0.92
(1,2024)	2:218:B:THR:HG23	2:180:B:CYS:H	20	0.92
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	16	0.92
(1,1167)	1:25:A:LEU:HB2	1:46:A:ILE:H	9	0.92
(1,1161)	2:161:B:ILE:HD11	2:161:B:ILE:H	5	0.92
(1,1155)	2:203:B:ILE:HD13	2:225:B:TYR:H	20	0.92
(1,679)	2:231:B:LEU:HD23	2:158:B:GLU:H	3	0.92
(1,679)	2:231:B:LEU:HD21	2:158:B:GLU:H	19	0.92
(1,662)	1:16:A:VAL:HG11	1:16:A:VAL:H	1	0.92
(1,662)	1:16:A:VAL:HG12	1:16:A:VAL:H	5	0.92
(1,662)	1:16:A:VAL:HG13	1:16:A:VAL:H	12	0.92
(1,5669)	2:181:B:ILE:HD12	2:248:B:THR:HB	7	0.91
(1,5669)	2:181:B:ILE:HD13	2:248:B:THR:HB	10	0.91
(1,5669)	2:181:B:ILE:HD13	2:248:B:THR:HB	13	0.91
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG23	6	0.91
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG23	15	0.91
(1,5640)	2:183:B:LEU:HG	2:218:B:THR:HB	11	0.91
(1,5631)	1:37:A:GLN:HB2	2:143:B:ILE:HG23	1	0.91
(1,5631)	1:38:A:GLN:HG3	2:143:B:ILE:HG23	9	0.91
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG21	3	0.91
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD12	1	0.91
(1,5325)	2:167:B:VAL:HB	1:16:A:VAL:HG21	19	0.91
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG12	20	0.91
(1,5052)	2:167:B:VAL:HG13	2:170:B:VAL:HG11	13	0.91
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD11	18	0.91
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD13	5	0.91
(1,4818)	2:163:B:PHE:HE2	2:152:B:LEU:HD12	5	0.91
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG13	15	0.91
(1,4663)	2:244:B:LEU:HD22	2:229:B:LEU:HD21	3	0.91
(1,4663)	2:226:B:ILE:HG21	2:229:B:LEU:HD22	10	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4560)	1:20:A:SER:HB3	1:3:A:ARG:HG2	15	0.91
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	18	0.91
(1,4105)	1:37:A:GLN:H	1:34:A:LYS:HD3	6	0.91
(1,3453)	2:224:B:LYS:HB3	2:169:B:ASN:HB2	14	0.91
(1,3275)	2:203:B:ILE:HG13	2:223:B:ARG:HD2	7	0.91
(1,3216)	1:50:A:ARG:HA	1:50:A:ARG:HD3	2	0.91
(1,2467)	2:229:B:LEU:HB3	2:233:B:PHE:HA	4	0.91
(1,2362)	2:231:B:LEU:HD22	2:232:B:ILE:HA	9	0.91
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD13	2	0.91
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD11	3	0.91
(1,1991)	1:25:A:LEU:HD11	1:49:A:VAL:H	3	0.91
(1,1458)	2:211:B:LYS:HD2	2:212:B:ALA:H	10	0.91
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	8	0.91
(1,1161)	2:161:B:ILE:HD11	2:161:B:ILE:H	1	0.91
(1,1161)	2:161:B:ILE:HG21	2:161:B:ILE:H	11	0.91
(1,1107)	2:213:B:LYS:HD3	2:210:B:LYS:H	7	0.91
(1,662)	1:16:A:VAL:HG13	1:16:A:VAL:H	9	0.91
(1,5669)	2:181:B:ILE:HD12	2:248:B:THR:HB	3	0.9
(1,5669)	2:181:B:ILE:HD11	2:248:B:THR:HB	15	0.9
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG22	3	0.9
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG21	11	0.9
(1,5633)	2:180:B:CYS:HB2	2:226:B:ILE:HG22	11	0.9
(1,5631)	1:37:A:GLN:HB2	2:143:B:ILE:HG22	5	0.9
(1,5631)	1:38:A:GLN:HG3	2:143:B:ILE:HG21	10	0.9
(1,5631)	1:37:A:GLN:HB2	2:143:B:ILE:HG23	11	0.9
(1,5631)	1:38:A:GLN:HG3	2:143:B:ILE:HG22	17	0.9
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB1	4	0.9
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG23	11	0.9
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG12	7	0.9
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG11	14	0.9
(1,5191)	1:24:A:PHE:HE2	2:244:B:LEU:HD22	6	0.9
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD12	5	0.9
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD22	17	0.9
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD12	2	0.9
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD11	16	0.9
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD11	17	0.9
(1,4818)	2:163:B:PHE:HE1	2:152:B:LEU:HD11	6	0.9
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD11	14	0.9
(1,4743)	2:226:B:ILE:H	2:229:B:LEU:HD11	8	0.9
(1,4639)	2:149:B:ILE:HG22	2:150:B:GLU:HB2	14	0.9
(1,4560)	1:45:A:ASP:HB2	1:3:A:ARG:HG3	13	0.9
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD13	12	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD12	15	0.9
(1,4220)	2:215:B:HIS:HB2	2:219:B:ILE:HG13	8	0.9
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	1	0.9
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	4	0.9
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	19	0.9
(1,3967)	2:186:B:MET:HG2	2:211:B:LYS:HB3	11	0.9
(1,3710)	2:146:B:ARG:HD3	2:147:B:GLU:HG2	7	0.9
(1,3580)	2:151:B:GLU:H	2:151:B:GLU:HG3	18	0.9
(1,3473)	1:3:A:ARG:HG3	1:2:A:ASN:HB3	15	0.9
(1,3272)	2:203:B:ILE:HD12	2:223:B:ARG:HD3	7	0.9
(1,3088)	2:214:B:VAL:HG12	2:212:B:ALA:HA	2	0.9
(1,2721)	1:4:A:LEU:HD22	1:20:A:SER:HA	4	0.9
(1,2362)	2:231:B:LEU:HD22	2:232:B:ILE:HA	13	0.9
(1,2362)	2:231:B:LEU:HD23	2:232:B:ILE:HA	16	0.9
(1,2031)	1:39:A:VAL:HG21	1:5:A:GLY:H	7	0.9
(1,1834)	2:199:B:LYS:HB2	2:202:B:ASN:H	6	0.9
(1,1834)	2:199:B:LYS:HB2	2:202:B:ASN:H	13	0.9
(1,1834)	2:203:B:ILE:HB	2:202:B:ASN:H	20	0.9
(1,1161)	2:161:B:ILE:HG22	2:161:B:ILE:H	4	0.9
(1,1161)	2:161:B:ILE:HD11	2:161:B:ILE:H	12	0.9
(1,1161)	2:161:B:ILE:HG23	2:161:B:ILE:H	14	0.9
(1,1161)	2:161:B:ILE:HG22	2:161:B:ILE:H	19	0.9
(1,1155)	2:203:B:ILE:HD11	2:225:B:TYR:H	5	0.9
(1,1155)	2:203:B:ILE:HD11	2:225:B:TYR:H	14	0.9
(1,952)	2:153:B:LYS:HE2	2:153:B:LYS:H	11	0.9
(1,679)	2:231:B:LEU:HD23	2:158:B:GLU:H	10	0.9
(1,662)	1:16:A:VAL:HG11	1:16:A:VAL:H	10	0.9
(1,656)	1:27:A:ILE:HD12	1:39:A:VAL:H	17	0.9
(1,5669)	2:181:B:ILE:HD13	2:248:B:THR:HB	8	0.89
(1,5633)	2:186:B:MET:HG2	2:226:B:ILE:HG21	8	0.89
(1,5631)	1:37:A:GLN:HB2	2:143:B:ILE:HG21	14	0.89
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG23	4	0.89
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG11	12	0.89
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD12	8	0.89
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD12	20	0.89
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG11	11	0.89
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG12	20	0.89
(1,4639)	2:214:B:VAL:HG12	2:213:B:LYS:HB3	10	0.89
(1,4639)	2:214:B:VAL:HG11	2:213:B:LYS:HB3	13	0.89
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	10	0.89
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	14	0.89
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	14	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3275)	2:203:B:ILE:HG13	2:223:B:ARG:HD2	8	0.89
(1,2721)	2:244:B:LEU:HD23	1:20:A:SER:HA	6	0.89
(1,2372)	2:229:B:LEU:HD21	2:181:B:ILE:HD12	2	0.89
(1,2302)	2:171:B:PRO:HB3	2:181:B:ILE:HD12	2	0.89
(1,2047)	2:203:B:ILE:HG22	2:208:B:LEU:H	19	0.89
(1,1837)	1:4:A:LEU:HD13	1:20:A:SER:H	7	0.89
(1,1837)	1:4:A:LEU:HD11	1:20:A:SER:H	17	0.89
(1,1528)	1:25:A:LEU:HD12	1:21:A:GLU:H	15	0.89
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	17	0.89
(1,1161)	2:161:B:ILE:HG22	2:161:B:ILE:H	2	0.89
(1,6184)	2:209:B:LYS:HG3	2:215:B:HIS:HD2	14	0.88
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG12	2	0.88
(1,5669)	2:181:B:ILE:HD12	2:248:B:THR:HB	5	0.88
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG21	4	0.88
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG22	5	0.88
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG22	14	0.88
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE2	18	0.88
(1,5462)	2:201:B:LYS:H	2:196:B:ALA:HB3	15	0.88
(1,5462)	2:205:B:ARG:H	2:196:B:ALA:HB3	17	0.88
(1,5384)	2:156:B:LEU:HD21	2:162:B:THR:HG23	16	0.88
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD11	17	0.88
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD13	20	0.88
(1,5325)	2:167:B:VAL:HB	1:16:A:VAL:HG23	4	0.88
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD13	10	0.88
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD12	9	0.88
(1,4923)	2:250:B:LEU:HA	2:250:B:LEU:HD13	13	0.88
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG13	10	0.88
(1,4316)	2:180:B:CYS:H	2:177:B:ARG:HG3	2	0.88
(1,4316)	2:208:B:LEU:H	2:205:B:ARG:HG3	19	0.88
(1,4265)	2:219:B:ILE:HG23	2:205:B:ARG:HB2	19	0.88
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	2	0.88
(1,3716)	1:3:A:ARG:HD2	1:21:A:GLU:HG3	9	0.88
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	14	0.88
(1,3457)	2:174:B:ARG:HG3	2:175:B:ASP:HB2	13	0.88
(1,3453)	2:241:B:LYS:HG2	2:185:B:LYS:HE2	2	0.88
(1,3278)	1:35:A:VAL:HG13	2:146:B:ARG:HD2	20	0.88
(1,2302)	2:185:B:LYS:HB2	2:181:B:ILE:HD12	13	0.88
(1,2051)	2:210:B:LYS:HB3	2:209:B:LYS:H	17	0.88
(1,2047)	2:203:B:ILE:HG21	2:208:B:LEU:H	6	0.88
(1,1176)	1:35:A:VAL:HG12	2:148:B:ASP:H	6	0.88
(1,1161)	2:161:B:ILE:HD11	2:161:B:ILE:H	16	0.88
(1,1155)	2:203:B:ILE:HD12	2:225:B:TYR:H	11	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1144)	2:161:B:ILE:HD13	2:157:B:GLN:H	14	0.88
(1,946)	2:171:B:PRO:HD2	2:181:B:ILE:H	13	0.88
(1,679)	2:231:B:LEU:HD22	2:158:B:GLU:H	1	0.88
(1,662)	1:16:A:VAL:HG11	1:16:A:VAL:H	19	0.88
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB1	20	0.87
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB1	18	0.87
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG23	6	0.87
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG21	9	0.87
(1,5389)	2:149:B:ILE:HD13	1:35:A:VAL:HG11	3	0.87
(1,5389)	1:17:A:VAL:HG13	1:39:A:VAL:HG23	17	0.87
(1,5384)	2:156:B:LEU:HD22	2:162:B:THR:HG23	11	0.87
(1,5384)	2:156:B:LEU:HD22	2:162:B:THR:HG22	15	0.87
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD13	13	0.87
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB1	9	0.87
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG13	1	0.87
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG12	13	0.87
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG13	14	0.87
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG11	18	0.87
(1,4770)	2:182:B:ARG:H	2:185:B:LYS:HG2	19	0.87
(1,4679)	2:232:B:ILE:HG23	2:152:B:LEU:HD22	7	0.87
(1,4265)	2:219:B:ILE:HG23	2:205:B:ARG:HB2	6	0.87
(1,3967)	2:193:B:MET:HG2	2:211:B:LYS:HB2	2	0.87
(1,3775)	1:16:A:VAL:HG21	1:9:A:GLU:HG2	17	0.87
(1,3580)	2:236:B:ASN:HD21	2:151:B:GLU:HG2	7	0.87
(1,3473)	1:3:A:ARG:HG3	1:2:A:ASN:HB3	19	0.87
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	19	0.87
(1,2309)	2:223:B:ARG:HG2	2:203:B:ILE:HD13	2	0.87
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD13	1	0.87
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD13	4	0.87
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD13	6	0.87
(1,1837)	1:4:A:LEU:HD13	1:20:A:SER:H	20	0.87
(1,1458)	2:211:B:LYS:HD2	2:212:B:ALA:H	14	0.87
(1,1161)	2:161:B:ILE:HD12	2:161:B:ILE:H	7	0.87
(1,946)	2:171:B:PRO:HD2	2:181:B:ILE:H	5	0.87
(1,946)	2:171:B:PRO:HD2	2:181:B:ILE:H	14	0.87
(1,946)	2:182:B:ARG:HD3	2:181:B:ILE:H	18	0.87
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG11	6	0.86
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG23	15	0.86
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG21	4	0.86
(1,5389)	2:149:B:ILE:HD13	1:35:A:VAL:HG13	4	0.86
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD11	2	0.86
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG11	16	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD11	1	0.86
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD11	18	0.86
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD13	10	0.86
(1,4639)	2:149:B:ILE:HG23	2:150:B:GLU:HB2	15	0.86
(1,4105)	1:37:A:GLN:HE21	1:34:A:LYS:HD3	2	0.86
(1,4006)	1:7:A:ILE:HG23	1:37:A:GLN:HG3	9	0.86
(1,3743)	2:149:B:ILE:HG12	2:150:B:GLU:HG2	6	0.86
(1,3710)	2:146:B:ARG:HD2	2:150:B:GLU:HG2	4	0.86
(1,3580)	2:151:B:GLU:H	2:151:B:GLU:HG2	15	0.86
(1,3473)	1:3:A:ARG:HG3	1:2:A:ASN:HB3	2	0.86
(1,3453)	2:241:B:LYS:HG3	2:185:B:LYS:HE2	11	0.86
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	15	0.86
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	17	0.86
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	1	0.86
(1,2372)	2:229:B:LEU:HD23	2:181:B:ILE:HD13	12	0.86
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD13	5	0.86
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD12	10	0.86
(1,1837)	1:4:A:LEU:HD11	1:20:A:SER:H	3	0.86
(1,1834)	2:203:B:ILE:HB	2:202:B:ASN:H	17	0.86
(1,1528)	2:244:B:LEU:HD22	1:21:A:GLU:H	10	0.86
(1,1161)	2:161:B:ILE:HD12	2:161:B:ILE:H	20	0.86
(1,1155)	2:203:B:ILE:HD12	2:225:B:TYR:H	19	0.86
(1,1132)	1:16:A:VAL:HG22	2:164:B:LEU:H	1	0.86
(1,679)	2:231:B:LEU:HD21	2:158:B:GLU:H	13	0.86
(1,674)	2:232:B:ILE:HG21	2:238:B:ASN:H	4	0.86
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD2	7	0.85
(1,5940)	1:39:A:VAL:HG12	1:17:A:VAL:HG23	8	0.85
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG22	6	0.85
(1,5640)	2:183:B:LEU:HG	2:218:B:THR:HB	10	0.85
(1,5610)	2:205:B:ARG:HD3	2:203:B:ILE:HG21	6	0.85
(1,5389)	2:149:B:ILE:HD13	1:35:A:VAL:HG11	5	0.85
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG11	1	0.85
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG13	3	0.85
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG12	18	0.85
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG21	10	0.85
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD12	11	0.85
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD13	8	0.85
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD13	16	0.85
(1,4790)	1:37:A:GLN:H	2:239:B:LEU:HD22	8	0.85
(1,4772)	1:41:A:PHE:H	1:4:A:LEU:HD23	6	0.85
(1,4663)	2:226:B:ILE:HG23	2:229:B:LEU:HD22	5	0.85
(1,4663)	2:226:B:ILE:HG22	2:229:B:LEU:HD21	11	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4612)	2:185:B:LYS:HE2	2:244:B:LEU:HD12	12	0.85
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD13	5	0.85
(1,4265)	2:219:B:ILE:HG22	2:205:B:ARG:HB2	1	0.85
(1,4265)	2:219:B:ILE:HG22	2:205:B:ARG:HB2	13	0.85
(1,4220)	2:215:B:HIS:HB2	2:219:B:ILE:HG13	2	0.85
(1,4220)	2:146:B:ARG:HD2	1:34:A:LYS:HD3	19	0.85
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	5	0.85
(1,4006)	1:7:A:ILE:HG22	1:37:A:GLN:HG3	16	0.85
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	10	0.85
(1,3278)	2:219:B:ILE:HG21	2:205:B:ARG:HD3	4	0.85
(1,3278)	2:219:B:ILE:HG22	2:205:B:ARG:HD3	15	0.85
(1,3088)	2:214:B:VAL:HG12	2:212:B:ALA:HA	9	0.85
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	12	0.85
(1,2302)	2:171:B:PRO:HB3	2:181:B:ILE:HD11	10	0.85
(1,2302)	2:185:B:LYS:HB2	2:181:B:ILE:HD11	12	0.85
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD12	11	0.85
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD13	17	0.85
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD11	5	0.85
(1,1176)	1:35:A:VAL:HG12	2:148:B:ASP:H	16	0.85
(1,1144)	2:161:B:ILE:HD12	2:157:B:GLN:H	17	0.85
(1,1126)	1:16:A:VAL:HG23	2:163:B:PHE:H	9	0.85
(1,946)	2:171:B:PRO:HD2	2:181:B:ILE:H	7	0.85
(1,623)	2:232:B:ILE:HD13	2:233:B:PHE:H	7	0.85
(1,567)	2:196:B:ALA:HB2	2:193:B:MET:H	19	0.85
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG22	10	0.84
(1,5633)	2:186:B:MET:HG2	2:226:B:ILE:HG21	4	0.84
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB1	10	0.84
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB2	2	0.84
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB2	16	0.84
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD12	6	0.84
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD13	12	0.84
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD13	4	0.84
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD11	16	0.84
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD11	9	0.84
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD13	12	0.84
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD23	11	0.84
(1,4663)	2:244:B:LEU:HD22	2:229:B:LEU:HD23	13	0.84
(1,4639)	2:214:B:VAL:HG12	2:213:B:LYS:HB3	9	0.84
(1,4639)	2:149:B:ILE:HG23	2:150:B:GLU:HB2	11	0.84
(1,4497)	1:23:A:GLU:HA	1:25:A:LEU:HD11	2	0.84
(1,4278)	1:17:A:VAL:HG21	1:23:A:GLU:HB2	2	0.84
(1,4265)	2:219:B:ILE:HG22	2:205:B:ARG:HB2	7	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3967)	1:32:A:ASP:HB3	1:31:A:LYS:HB2	19	0.84
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	20	0.84
(1,3278)	2:219:B:ILE:HG21	2:205:B:ARG:HD2	13	0.84
(1,3216)	1:50:A:ARG:HA	1:50:A:ARG:HD3	16	0.84
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD11	19	0.84
(1,1176)	1:35:A:VAL:HG11	2:148:B:ASP:H	11	0.84
(1,1161)	2:161:B:ILE:HD13	2:161:B:ILE:H	3	0.84
(1,1155)	2:203:B:ILE:HD11	2:225:B:TYR:H	2	0.84
(1,1148)	2:208:B:LEU:HD12	2:187:B:LEU:H	18	0.84
(1,1103)	2:156:B:LEU:HB3	2:166:B:LEU:H	15	0.84
(1,952)	2:154:B:LYS:HE2	2:153:B:LYS:H	8	0.84
(1,946)	2:171:B:PRO:HD2	2:181:B:ILE:H	11	0.84
(1,674)	2:232:B:ILE:HG22	2:238:B:ASN:H	10	0.84
(1,662)	1:7:A:ILE:HG22	1:16:A:VAL:H	2	0.84
(1,623)	2:232:B:ILE:HD12	2:233:B:PHE:H	2	0.84
(1,623)	2:232:B:ILE:HD13	2:233:B:PHE:H	3	0.84
(1,623)	2:232:B:ILE:HD13	2:233:B:PHE:H	17	0.84
(1,623)	2:232:B:ILE:HD13	2:233:B:PHE:H	19	0.84
(1,567)	2:196:B:ALA:HB1	2:193:B:MET:H	4	0.84
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD1	8	0.83
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG21	4	0.83
(1,5669)	2:181:B:ILE:HD13	2:248:B:THR:HB	11	0.83
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG21	19	0.83
(1,5631)	1:38:A:GLN:HG3	2:143:B:ILE:HG23	3	0.83
(1,5631)	1:38:A:GLN:HG3	2:143:B:ILE:HG21	6	0.83
(1,5631)	1:37:A:GLN:HB2	2:143:B:ILE:HG22	7	0.83
(1,5631)	1:37:A:GLN:HB2	2:143:B:ILE:HG21	15	0.83
(1,5631)	1:37:A:GLN:HB2	2:143:B:ILE:HG22	16	0.83
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB3	12	0.83
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB3	3	0.83
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB2	18	0.83
(1,5384)	2:156:B:LEU:HD22	2:162:B:THR:HG22	17	0.83
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD13	18	0.83
(1,5325)	2:167:B:VAL:HB	1:16:A:VAL:HG21	3	0.83
(1,5325)	2:167:B:VAL:HB	1:16:A:VAL:HG22	8	0.83
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG11	9	0.83
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD11	18	0.83
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG12	5	0.83
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD13	2	0.83
(1,4956)	2:190:B:ASP:HB3	2:208:B:LEU:HD12	18	0.83
(1,4818)	2:163:B:PHE:HE2	2:152:B:LEU:HD13	20	0.83
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG13	17	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4663)	2:226:B:ILE:HG21	2:229:B:LEU:HD23	8	0.83
(1,4639)	2:214:B:VAL:HG13	2:213:B:LYS:HB3	19	0.83
(1,4006)	1:7:A:ILE:HG23	1:37:A:GLN:HG3	20	0.83
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	15	0.83
(1,3580)	2:151:B:GLU:H	2:151:B:GLU:HG3	13	0.83
(1,3473)	1:3:A:ARG:HG3	1:2:A:ASN:HB3	18	0.83
(1,3457)	2:179:B:LEU:HB3	2:175:B:ASP:HB3	15	0.83
(1,3457)	2:179:B:LEU:HB3	2:175:B:ASP:HB3	20	0.83
(1,3453)	2:166:B:LEU:HB3	2:169:B:ASN:HB2	12	0.83
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	18	0.83
(1,3278)	2:219:B:ILE:HG21	2:205:B:ARG:HD2	18	0.83
(1,3275)	2:203:B:ILE:HG13	2:223:B:ARG:HD2	6	0.83
(1,3274)	2:203:B:ILE:HG13	2:223:B:ARG:HD3	10	0.83
(1,3274)	2:203:B:ILE:HG13	2:223:B:ARG:HD3	11	0.83
(1,3088)	2:214:B:VAL:HG12	2:212:B:ALA:HA	15	0.83
(1,2302)	2:185:B:LYS:HB2	2:181:B:ILE:HD11	14	0.83
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD13	7	0.83
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD11	15	0.83
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD11	17	0.83
(1,2031)	1:39:A:VAL:HG21	1:5:A:GLY:H	3	0.83
(1,1837)	1:4:A:LEU:HD13	1:20:A:SER:H	13	0.83
(1,1523)	2:168:B:LEU:HD22	2:168:B:LEU:H	5	0.83
(1,1161)	2:161:B:ILE:HD13	2:161:B:ILE:H	15	0.83
(1,1151)	2:161:B:ILE:HD12	2:228:B:ALA:H	6	0.83
(1,1126)	1:16:A:VAL:HG22	2:163:B:PHE:H	1	0.83
(1,1126)	1:16:A:VAL:HG21	2:163:B:PHE:H	15	0.83
(1,946)	2:171:B:PRO:HD2	2:181:B:ILE:H	4	0.83
(1,822)	1:24:A:PHE:HD2	2:166:B:LEU:H	16	0.83
(1,822)	1:24:A:PHE:HD1	2:166:B:LEU:H	19	0.83
(1,679)	2:231:B:LEU:HD22	2:158:B:GLU:H	12	0.83
(1,662)	1:7:A:ILE:HG23	1:16:A:VAL:H	11	0.83
(1,623)	2:232:B:ILE:HD11	2:233:B:PHE:H	1	0.83
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	14	0.83
(1,180)	1:26:A:ILE:HG21	1:29:A:ARG:H	9	0.83
(1,6109)	1:16:A:VAL:HG21	2:163:B:PHE:HD1	12	0.82
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG22	7	0.82
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG23	10	0.82
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG22	13	0.82
(1,5633)	2:186:B:MET:HG2	2:226:B:ILE:HG23	3	0.82
(1,5633)	2:180:B:CYS:HB2	2:226:B:ILE:HG23	12	0.82
(1,5633)	2:186:B:MET:HG2	2:226:B:ILE:HG23	18	0.82
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB3	5	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG21	15	0.82
(1,5389)	2:149:B:ILE:HD13	1:35:A:VAL:HG11	11	0.82
(1,5389)	2:149:B:ILE:HD12	1:35:A:VAL:HG12	14	0.82
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD13	16	0.82
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB1	1	0.82
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG11	5	0.82
(1,5263)	2:166:B:LEU:HA	2:168:B:LEU:HD11	1	0.82
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG22	20	0.82
(1,5003)	2:158:B:GLU:HB2	2:156:B:LEU:HD11	1	0.82
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD13	4	0.82
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD12	20	0.82
(1,4922)	2:219:B:ILE:HA	2:208:B:LEU:HD13	15	0.82
(1,4770)	2:182:B:ARG:H	2:185:B:LYS:HG2	7	0.82
(1,4639)	2:149:B:ILE:HG22	2:150:B:GLU:HB2	1	0.82
(1,4639)	2:214:B:VAL:HG13	2:213:B:LYS:HB3	17	0.82
(1,4639)	2:149:B:ILE:HG23	2:150:B:GLU:HB2	18	0.82
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	15	0.82
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	17	0.82
(1,3473)	1:3:A:ARG:HG3	1:2:A:ASN:HB3	5	0.82
(1,3088)	2:214:B:VAL:HG12	2:212:B:ALA:HA	10	0.82
(1,3088)	2:214:B:VAL:HG13	2:212:B:ALA:HA	19	0.82
(1,2362)	2:237:B:LEU:HD12	2:232:B:ILE:HA	7	0.82
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD11	15	0.82
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD11	2	0.82
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD12	12	0.82
(1,2047)	2:203:B:ILE:HG23	2:208:B:LEU:H	11	0.82
(1,2047)	2:203:B:ILE:HG23	2:208:B:LEU:H	12	0.82
(1,1834)	2:203:B:ILE:HB	2:202:B:ASN:H	5	0.82
(1,1718)	1:3:A:ARG:HB3	1:19:A:THR:H	12	0.82
(1,1458)	2:211:B:LYS:HD2	2:212:B:ALA:H	2	0.82
(1,1413)	1:20:A:SER:HB3	1:3:A:ARG:HE	17	0.82
(1,1161)	2:161:B:ILE:HD13	2:161:B:ILE:H	9	0.82
(1,679)	2:231:B:LEU:HD21	2:158:B:GLU:H	2	0.82
(1,623)	2:232:B:ILE:HD13	2:233:B:PHE:H	5	0.82
(1,567)	2:196:B:ALA:HB1	2:193:B:MET:H	13	0.82
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	9	0.82
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG21	2	0.81
(1,5820)	2:183:B:LEU:HD11	2:218:B:THR:HB	3	0.81
(1,5640)	2:208:B:LEU:HG	2:218:B:THR:HB	2	0.81
(1,5640)	2:208:B:LEU:HG	2:218:B:THR:HB	15	0.81
(1,5633)	2:180:B:CYS:HB2	2:226:B:ILE:HG23	19	0.81
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB3	5	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5389)	2:149:B:ILE:HD13	1:35:A:VAL:HG12	2	0.81
(1,5389)	2:149:B:ILE:HD11	1:35:A:VAL:HG11	6	0.81
(1,5389)	1:17:A:VAL:HG13	1:39:A:VAL:HG22	10	0.81
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD11	11	0.81
(1,5325)	1:14:A:LYS:HE2	1:16:A:VAL:HG23	6	0.81
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB1	3	0.81
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB2	20	0.81
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG12	2	0.81
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD12	8	0.81
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD12	7	0.81
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD13	5	0.81
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD12	11	0.81
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD12	18	0.81
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD23	1	0.81
(1,4770)	2:247:B:TYR:H	2:250:B:LEU:HD21	20	0.81
(1,4663)	2:244:B:LEU:HD22	2:229:B:LEU:HD22	7	0.81
(1,4639)	2:214:B:VAL:HG13	2:213:B:LYS:HB3	20	0.81
(1,4401)	2:155:B:LYS:H	2:156:B:LEU:HD23	15	0.81
(1,3967)	2:186:B:MET:HG2	2:211:B:LYS:HB2	1	0.81
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	7	0.81
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	1	0.81
(1,3473)	1:3:A:ARG:HG3	1:2:A:ASN:HB3	20	0.81
(1,3457)	2:179:B:LEU:HB3	2:175:B:ASP:HB3	2	0.81
(1,3457)	2:179:B:LEU:HB3	2:175:B:ASP:HB3	8	0.81
(1,3278)	1:35:A:VAL:HG13	2:146:B:ARG:HD2	6	0.81
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD11	8	0.81
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD13	14	0.81
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD11	5	0.81
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD13	8	0.81
(1,1834)	2:199:B:LYS:HB2	2:202:B:ASN:H	3	0.81
(1,1834)	2:199:B:LYS:HB2	2:202:B:ASN:H	7	0.81
(1,1523)	2:168:B:LEU:HD22	2:168:B:LEU:H	14	0.81
(1,1176)	1:35:A:VAL:HG11	2:148:B:ASP:H	4	0.81
(1,1144)	2:161:B:ILE:HD11	2:157:B:GLN:H	13	0.81
(1,1132)	1:16:A:VAL:HG22	2:164:B:LEU:H	3	0.81
(1,662)	1:7:A:ILE:HG23	1:16:A:VAL:H	13	0.81
(1,623)	2:232:B:ILE:HD13	2:233:B:PHE:H	13	0.81
(1,180)	1:10:A:ILE:HG21	1:29:A:ARG:H	12	0.81
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD1	17	0.8
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD2	20	0.8
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE3	1	0.8
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE1	14	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE1	20	0.8
(1,5640)	2:183:B:LEU:HG	2:218:B:THR:HB	18	0.8
(1,5633)	2:222:B:ASN:HB3	2:226:B:ILE:HG23	10	0.8
(1,5633)	2:222:B:ASN:HB3	2:226:B:ILE:HG21	17	0.8
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB2	6	0.8
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG21	7	0.8
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD11	10	0.8
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG22	18	0.8
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG22	20	0.8
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB1	4	0.8
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB1	8	0.8
(1,5243)	1:33:A:MET:HA	1:17:A:VAL:HG12	4	0.8
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD13	16	0.8
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD11	1	0.8
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD12	3	0.8
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD12	6	0.8
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD13	7	0.8
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD12	13	0.8
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD11	15	0.8
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD11	19	0.8
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD12	10	0.8
(1,4316)	2:208:B:LEU:H	2:205:B:ARG:HG3	20	0.8
(1,4262)	1:6:A:ILE:HG22	1:37:A:GLN:HB3	15	0.8
(1,3710)	2:146:B:ARG:HD2	2:150:B:GLU:HG2	1	0.8
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	6	0.8
(1,3319)	2:246:B:TYR:H	2:185:B:LYS:HE3	12	0.8
(1,3088)	2:214:B:VAL:HG11	2:212:B:ALA:HA	11	0.8
(1,3088)	2:214:B:VAL:HG12	2:212:B:ALA:HA	18	0.8
(1,2302)	2:185:B:LYS:HB2	2:181:B:ILE:HD12	1	0.8
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD12	10	0.8
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD13	7	0.8
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD12	10	0.8
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD13	19	0.8
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD13	1	0.8
(1,2031)	1:39:A:VAL:HG22	1:5:A:GLY:H	11	0.8
(1,2024)	2:218:B:THR:HG22	2:180:B:CYS:H	3	0.8
(1,1540)	2:232:B:ILE:HG22	2:235:B:SER:H	19	0.8
(1,1528)	2:244:B:LEU:HD23	1:21:A:GLU:H	6	0.8
(1,1528)	1:25:A:LEU:HD13	1:21:A:GLU:H	8	0.8
(1,1167)	1:25:A:LEU:HB2	1:46:A:ILE:H	2	0.8
(1,1167)	1:3:A:ARG:HG3	1:46:A:ILE:H	14	0.8
(1,1161)	2:161:B:ILE:HD11	2:161:B:ILE:H	10	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1161)	2:161:B:ILE:HD11	2:161:B:ILE:H	13	0.8
(1,1151)	2:161:B:ILE:HD11	2:228:B:ALA:H	20	0.8
(1,1148)	2:208:B:LEU:HD13	2:187:B:LEU:H	10	0.8
(1,822)	1:24:A:PHE:HD1	2:166:B:LEU:H	9	0.8
(1,679)	2:161:B:ILE:HG13	2:158:B:GLU:H	11	0.8
(1,623)	2:232:B:ILE:HD12	2:233:B:PHE:H	14	0.8
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	7	0.8
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	6	0.8
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	19	0.8
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD1	13	0.79
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD1	16	0.79
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG13	17	0.79
(1,5940)	1:39:A:VAL:HG11	1:17:A:VAL:HG22	4	0.79
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE2	16	0.79
(1,5610)	2:205:B:ARG:HD3	2:203:B:ILE:HG21	2	0.79
(1,5389)	2:149:B:ILE:HD12	1:35:A:VAL:HG12	8	0.79
(1,5389)	1:17:A:VAL:HG11	1:39:A:VAL:HG22	20	0.79
(1,5384)	2:156:B:LEU:HD23	2:162:B:THR:HG22	20	0.79
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD13	5	0.79
(1,5052)	2:167:B:VAL:HG11	2:170:B:VAL:HG13	11	0.79
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD11	2	0.79
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD13	17	0.79
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD21	13	0.79
(1,4316)	2:180:B:CYS:H	2:177:B:ARG:HG2	5	0.79
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD2	2	0.79
(1,4006)	1:7:A:ILE:HG22	1:37:A:GLN:HG3	11	0.79
(1,3438)	2:189:B:GLU:HG3	2:185:B:LYS:HE3	17	0.79
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	20	0.79
(1,3088)	2:214:B:VAL:HG12	2:212:B:ALA:HA	5	0.79
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	20	0.79
(1,2372)	2:229:B:LEU:HD23	2:181:B:ILE:HD13	6	0.79
(1,2309)	2:208:B:LEU:HB2	2:203:B:ILE:HD11	20	0.79
(1,2302)	2:185:B:LYS:HB2	2:181:B:ILE:HD13	18	0.79
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD12	13	0.79
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD12	3	0.79
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD12	12	0.79
(1,2031)	1:39:A:VAL:HG22	1:5:A:GLY:H	16	0.79
(1,1528)	1:25:A:LEU:HD13	1:21:A:GLU:H	11	0.79
(1,1458)	2:211:B:LYS:HD3	2:212:B:ALA:H	19	0.79
(1,1176)	1:35:A:VAL:HG12	2:148:B:ASP:H	20	0.79
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	2	0.79
(1,1161)	2:161:B:ILE:HD12	2:161:B:ILE:H	17	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1155)	2:203:B:ILE:HD11	2:225:B:TYR:H	13	0.79
(1,1144)	2:161:B:ILE:HD13	2:157:B:GLN:H	11	0.79
(1,822)	1:24:A:PHE:HD1	2:166:B:LEU:H	14	0.79
(1,623)	2:232:B:ILE:HD13	2:233:B:PHE:H	18	0.79
(1,567)	2:196:B:ALA:HB2	2:193:B:MET:H	16	0.79
(1,180)	1:26:A:ILE:HG23	1:29:A:ARG:H	18	0.79
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD2	4	0.78
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG22	12	0.78
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE3	9	0.78
(1,5633)	2:222:B:ASN:HB3	2:226:B:ILE:HG23	7	0.78
(1,5633)	2:222:B:ASN:HB3	2:226:B:ILE:HG21	15	0.78
(1,5621)	2:180:B:CYS:HB2	2:181:B:ILE:HG21	17	0.78
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG23	2	0.78
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD12	6	0.78
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD13	9	0.78
(1,5350)	2:232:B:ILE:HB	2:244:B:LEU:HD22	6	0.78
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG13	2	0.78
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG23	4	0.78
(1,4993)	1:14:A:LYS:HE2	2:164:B:LEU:HD11	15	0.78
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD11	19	0.78
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD11	4	0.78
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD12	2	0.78
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD11	14	0.78
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD11	1	0.78
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD11	19	0.78
(1,4770)	2:247:B:TYR:H	2:250:B:LEU:HD23	14	0.78
(1,4743)	2:226:B:ILE:H	2:229:B:LEU:HD12	13	0.78
(1,4679)	2:232:B:ILE:HG22	2:152:B:LEU:HD23	1	0.78
(1,4639)	2:149:B:ILE:HG23	2:150:B:GLU:HB2	2	0.78
(1,4560)	1:20:A:SER:HB3	1:3:A:ARG:HG2	19	0.78
(1,4316)	1:28:A:ARG:H	1:30:A:ARG:HG2	10	0.78
(1,4265)	2:219:B:ILE:HG23	2:205:B:ARG:HB2	15	0.78
(1,4220)	2:215:B:HIS:HB2	2:219:B:ILE:HG13	5	0.78
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD3	16	0.78
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	4	0.78
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	10	0.78
(1,3580)	2:151:B:GLU:H	2:151:B:GLU:HG3	12	0.78
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	13	0.78
(1,3274)	2:203:B:ILE:HG13	2:223:B:ARG:HD3	18	0.78
(1,3088)	2:214:B:VAL:HG13	2:212:B:ALA:HA	17	0.78
(1,2372)	2:229:B:LEU:HD23	2:181:B:ILE:HD11	1	0.78
(1,2372)	2:229:B:LEU:HD22	2:181:B:ILE:HD13	14	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD11	2	0.78
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD12	20	0.78
(1,2196)	1:18:A:LEU:HA	1:6:A:ILE:HD12	15	0.78
(1,2146)	2:163:B:PHE:HE1	2:232:B:ILE:HD13	6	0.78
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD12	6	0.78
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD12	7	0.78
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD13	20	0.78
(1,1991)	1:26:A:ILE:HD11	1:49:A:VAL:H	12	0.78
(1,1906)	2:219:B:ILE:HG13	2:214:B:VAL:H	11	0.78
(1,1705)	2:219:B:ILE:HG13	2:222:B:ASN:HD21	19	0.78
(1,1176)	1:35:A:VAL:HG12	2:148:B:ASP:H	8	0.78
(1,1176)	1:35:A:VAL:HG13	2:148:B:ASP:H	13	0.78
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	5	0.78
(1,1151)	2:161:B:ILE:HD13	2:228:B:ALA:H	12	0.78
(1,1148)	2:208:B:LEU:HD11	2:187:B:LEU:H	14	0.78
(1,1135)	2:231:B:LEU:HB3	2:153:B:LYS:H	5	0.78
(1,1126)	1:16:A:VAL:HG23	2:163:B:PHE:H	2	0.78
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	12	0.78
(1,946)	2:171:B:PRO:HD2	2:181:B:ILE:H	19	0.78
(1,662)	1:7:A:ILE:HG23	1:16:A:VAL:H	7	0.78
(1,623)	2:232:B:ILE:HD12	2:233:B:PHE:H	4	0.78
(1,623)	2:232:B:ILE:HD11	2:233:B:PHE:H	10	0.78
(1,567)	2:196:B:ALA:HB3	2:193:B:MET:H	1	0.78
(1,567)	2:196:B:ALA:HB2	2:193:B:MET:H	8	0.78
(1,180)	1:10:A:ILE:HG23	1:29:A:ARG:H	11	0.78
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD2	2	0.77
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG13	10	0.77
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG11	20	0.77
(1,5891)	2:225:B:TYR:H	2:161:B:ILE:HD13	16	0.77
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG21	17	0.77
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB2	1	0.77
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG23	13	0.77
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB3	1	0.77
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB2	7	0.77
(1,5467)	2:225:B:TYR:H	2:161:B:ILE:HG21	9	0.77
(1,5389)	2:149:B:ILE:HD12	1:35:A:VAL:HG11	7	0.77
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD11	3	0.77
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG21	7	0.77
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG21	8	0.77
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB1	11	0.77
(1,5182)	1:23:A:GLU:H	1:17:A:VAL:HG22	15	0.77
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD13	11	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD12	13	0.77
(1,4639)	1:35:A:VAL:HG12	2:150:B:GLU:HB2	5	0.77
(1,4575)	1:5:A:GLY:HA3	1:18:A:LEU:HD23	7	0.77
(1,4546)	1:43:A:ASN:HB2	1:44:A:GLU:HB2	16	0.77
(1,4265)	2:219:B:ILE:HG22	2:205:B:ARG:HB2	12	0.77
(1,4220)	2:215:B:HIS:HB2	2:219:B:ILE:HG13	14	0.77
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD2	3	0.77
(1,4105)	1:37:A:GLN:H	1:34:A:LYS:HD2	10	0.77
(1,3716)	1:3:A:ARG:HD2	1:21:A:GLU:HG3	18	0.77
(1,3473)	1:3:A:ARG:HG3	1:2:A:ASN:HB3	3	0.77
(1,3088)	2:214:B:VAL:HG11	2:212:B:ALA:HA	7	0.77
(1,2146)	2:163:B:PHE:HE1	2:232:B:ILE:HD11	11	0.77
(1,2047)	2:203:B:ILE:HG21	2:208:B:LEU:H	8	0.77
(1,2031)	1:39:A:VAL:HG23	1:5:A:GLY:H	13	0.77
(1,1912)	2:161:B:ILE:HD11	2:160:B:GLY:H	16	0.77
(1,1837)	1:4:A:LEU:HD12	1:20:A:SER:H	15	0.77
(1,1834)	2:199:B:LYS:HB2	2:202:B:ASN:H	16	0.77
(1,1540)	2:232:B:ILE:HG23	2:235:B:SER:H	11	0.77
(1,1413)	1:20:A:SER:HB3	1:3:A:ARG:HE	11	0.77
(1,1176)	1:35:A:VAL:HG12	2:148:B:ASP:H	15	0.77
(1,1176)	1:35:A:VAL:HG11	2:148:B:ASP:H	19	0.77
(1,1151)	2:161:B:ILE:HD12	2:228:B:ALA:H	8	0.77
(1,822)	1:24:A:PHE:HD1	2:166:B:LEU:H	8	0.77
(1,822)	1:24:A:PHE:HD2	2:166:B:LEU:H	13	0.77
(1,679)	2:161:B:ILE:HG13	2:158:B:GLU:H	9	0.77
(1,662)	1:7:A:ILE:HG23	1:16:A:VAL:H	14	0.77
(1,662)	1:7:A:ILE:HG23	1:16:A:VAL:H	17	0.77
(1,641)	1:49:A:VAL:HG13	1:49:A:VAL:H	13	0.77
(1,633)	1:7:A:ILE:HG23	1:35:A:VAL:H	1	0.77
(1,633)	1:10:A:ILE:HD13	1:35:A:VAL:H	14	0.77
(1,623)	2:232:B:ILE:HD11	2:233:B:PHE:H	15	0.77
(1,567)	2:196:B:ALA:HB2	2:193:B:MET:H	2	0.77
(1,567)	2:196:B:ALA:HB3	2:193:B:MET:H	6	0.77
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	16	0.77
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE1	7	0.76
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG12	16	0.76
(1,5701)	2:227:B:ILE:HG21	2:161:B:ILE:HG23	17	0.76
(1,5666)	1:26:A:ILE:HB	1:27:A:ILE:HG22	12	0.76
(1,5631)	1:37:A:GLN:HB2	2:143:B:ILE:HG22	13	0.76
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB2	20	0.76
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG13	20	0.76
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD12	9	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4934)	2:166:B:LEU:HA	2:166:B:LEU:HD13	16	0.76
(1,4770)	2:182:B:ARG:H	2:185:B:LYS:HG2	5	0.76
(1,4316)	2:208:B:LEU:H	2:205:B:ARG:HG3	18	0.76
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	6	0.76
(1,3942)	1:34:A:LYS:HE2	1:37:A:GLN:HG2	10	0.76
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	16	0.76
(1,3710)	2:146:B:ARG:HD2	2:150:B:GLU:HG2	14	0.76
(1,3580)	2:236:B:ASN:HD21	2:151:B:GLU:HG2	3	0.76
(1,3473)	1:3:A:ARG:HG2	1:2:A:ASN:HB3	8	0.76
(1,3473)	1:3:A:ARG:HG3	1:2:A:ASN:HB3	16	0.76
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	6	0.76
(1,3088)	2:214:B:VAL:HG11	2:212:B:ALA:HA	4	0.76
(1,2621)	2:211:B:LYS:HE2	2:211:B:LYS:HA	19	0.76
(1,2362)	2:237:B:LEU:HD11	2:232:B:ILE:HA	12	0.76
(1,2362)	2:237:B:LEU:HD12	2:232:B:ILE:HA	19	0.76
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD11	13	0.76
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD12	12	0.76
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD11	16	0.76
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD12	20	0.76
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD12	2	0.76
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD13	14	0.76
(1,2031)	1:39:A:VAL:HG22	1:5:A:GLY:H	5	0.76
(1,2031)	1:39:A:VAL:HG21	1:5:A:GLY:H	19	0.76
(1,1528)	1:25:A:LEU:HD12	1:21:A:GLU:H	17	0.76
(1,1161)	2:161:B:ILE:HD11	2:161:B:ILE:H	18	0.76
(1,1126)	1:16:A:VAL:HG23	2:163:B:PHE:H	17	0.76
(1,946)	2:182:B:ARG:HD2	2:181:B:ILE:H	2	0.76
(1,679)	2:231:B:LEU:HD23	2:158:B:GLU:H	8	0.76
(1,662)	1:7:A:ILE:HG21	1:16:A:VAL:H	3	0.76
(1,633)	1:7:A:ILE:HG23	1:35:A:VAL:H	20	0.76
(1,623)	2:232:B:ILE:HD12	2:233:B:PHE:H	6	0.76
(1,623)	2:232:B:ILE:HD11	2:233:B:PHE:H	8	0.76
(1,623)	2:232:B:ILE:HD11	2:233:B:PHE:H	9	0.76
(1,623)	2:232:B:ILE:HD11	2:233:B:PHE:H	16	0.76
(1,567)	2:196:B:ALA:HB2	2:193:B:MET:H	7	0.76
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD2	2	0.75
(1,5820)	2:219:B:ILE:HG12	2:218:B:THR:HB	15	0.75
(1,5669)	2:181:B:ILE:HD12	2:248:B:THR:HB	14	0.75
(1,5633)	2:180:B:CYS:HB2	2:226:B:ILE:HG23	5	0.75
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB3	6	0.75
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG22	13	0.75
(1,5325)	2:167:B:VAL:HB	1:16:A:VAL:HG23	15	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5191)	1:24:A:PHE:HE2	2:244:B:LEU:HD23	12	0.75
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG23	2	0.75
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD23	9	0.75
(1,4818)	2:163:B:PHE:HE1	2:152:B:LEU:HD13	3	0.75
(1,4770)	2:247:B:TYR:H	2:250:B:LEU:HD21	1	0.75
(1,4265)	2:219:B:ILE:HG21	2:205:B:ARG:HB2	8	0.75
(1,4265)	2:219:B:ILE:HG23	2:205:B:ARG:HB2	10	0.75
(1,4262)	1:6:A:ILE:HG22	1:37:A:GLN:HB3	8	0.75
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	16	0.75
(1,3710)	2:146:B:ARG:HD2	2:150:B:GLU:HG2	5	0.75
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG2	9	0.75
(1,3457)	2:174:B:ARG:HG2	2:175:B:ASP:HB2	7	0.75
(1,3088)	2:214:B:VAL:HG13	2:212:B:ALA:HA	6	0.75
(1,3088)	2:214:B:VAL:HG12	2:212:B:ALA:HA	14	0.75
(1,2925)	2:188:B:ALA:HB2	2:184:B:ALA:HA	4	0.75
(1,2362)	2:237:B:LEU:HD13	2:232:B:ILE:HA	1	0.75
(1,2309)	2:223:B:ARG:HG3	2:203:B:ILE:HD11	14	0.75
(1,2302)	2:185:B:LYS:HB2	2:181:B:ILE:HD13	19	0.75
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD11	3	0.75
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD11	5	0.75
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD12	9	0.75
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD13	1	0.75
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD13	15	0.75
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD11	19	0.75
(1,2087)	1:38:A:GLN:H	2:143:B:ILE:HD11	6	0.75
(1,2047)	2:203:B:ILE:HG23	2:208:B:LEU:H	20	0.75
(1,2031)	1:39:A:VAL:HG23	1:5:A:GLY:H	1	0.75
(1,2031)	1:39:A:VAL:HG22	1:5:A:GLY:H	2	0.75
(1,1837)	1:4:A:LEU:HD11	1:20:A:SER:H	10	0.75
(1,1458)	2:211:B:LYS:HD2	2:212:B:ALA:H	4	0.75
(1,1167)	1:25:A:LEU:HB2	1:46:A:ILE:H	4	0.75
(1,1155)	2:203:B:ILE:HD13	2:225:B:TYR:H	17	0.75
(1,1148)	2:208:B:LEU:HD11	2:187:B:LEU:H	4	0.75
(1,1126)	1:16:A:VAL:HG23	2:163:B:PHE:H	14	0.75
(1,1107)	2:213:B:LYS:HD2	2:210:B:LYS:H	4	0.75
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	10	0.75
(1,822)	1:24:A:PHE:HD1	2:166:B:LEU:H	5	0.75
(1,623)	2:232:B:ILE:HD13	2:233:B:PHE:H	11	0.75
(1,623)	2:232:B:ILE:HD12	2:233:B:PHE:H	20	0.75
(1,567)	2:196:B:ALA:HB2	2:193:B:MET:H	10	0.75
(1,567)	2:196:B:ALA:HB1	2:193:B:MET:H	17	0.75
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	14	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG13	19	0.74
(1,5701)	2:227:B:ILE:HG22	2:161:B:ILE:HG21	3	0.74
(1,5640)	2:217:B:ARG:HB2	2:218:B:THR:HB	3	0.74
(1,5640)	2:208:B:LEU:HG	2:218:B:THR:HB	5	0.74
(1,5610)	2:205:B:ARG:HD3	2:203:B:ILE:HG23	5	0.74
(1,5547)	2:147:B:GLU:HA	2:145:B:ALA:HB3	14	0.74
(1,5384)	2:156:B:LEU:HD22	2:162:B:THR:HG23	5	0.74
(1,5384)	2:156:B:LEU:HD22	2:162:B:THR:HG21	19	0.74
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG23	10	0.74
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG13	17	0.74
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG22	17	0.74
(1,4989)	2:167:B:VAL:HB	2:164:B:LEU:HD22	7	0.74
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD12	4	0.74
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD13	13	0.74
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD21	19	0.74
(1,4838)	2:178:B:GLN:HE21	2:248:B:THR:HG22	19	0.74
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD13	8	0.74
(1,4755)	2:169:B:ASN:H	2:170:B:VAL:HG11	12	0.74
(1,4546)	1:43:A:ASN:HB3	1:44:A:GLU:HB2	7	0.74
(1,4316)	2:208:B:LEU:H	2:205:B:ARG:HG3	17	0.74
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD13	7	0.74
(1,4262)	1:6:A:ILE:HG23	1:37:A:GLN:HB3	17	0.74
(1,4220)	2:215:B:HIS:HB2	2:219:B:ILE:HG13	1	0.74
(1,3967)	2:186:B:MET:HG2	2:211:B:LYS:HB3	9	0.74
(1,3780)	1:35:A:VAL:HG11	2:150:B:GLU:HG3	13	0.74
(1,3274)	2:203:B:ILE:HG13	2:223:B:ARG:HD3	17	0.74
(1,2721)	1:4:A:LEU:HD21	1:20:A:SER:HA	3	0.74
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	19	0.74
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	16	0.74
(1,2309)	2:223:B:ARG:HG3	2:203:B:ILE:HD13	6	0.74
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD13	18	0.74
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD13	5	0.74
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD12	13	0.74
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD13	13	0.74
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD11	20	0.74
(1,2048)	2:187:B:LEU:HD12	2:197:B:LEU:H	17	0.74
(1,2047)	2:203:B:ILE:HG21	2:208:B:LEU:H	1	0.74
(1,2031)	1:39:A:VAL:HG22	1:5:A:GLY:H	8	0.74
(1,1834)	2:199:B:LYS:HB2	2:202:B:ASN:H	10	0.74
(1,1523)	2:168:B:LEU:HD23	2:168:B:LEU:H	10	0.74
(1,1503)	2:214:B:VAL:HG13	2:212:B:ALA:H	20	0.74
(1,1413)	1:31:A:LYS:HE3	1:33:A:MET:H	13	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1161)	2:161:B:ILE:HD13	2:161:B:ILE:H	8	0.74
(1,1155)	2:203:B:ILE:HD12	2:225:B:TYR:H	8	0.74
(1,1103)	2:156:B:LEU:HB3	2:166:B:LEU:H	20	0.74
(1,679)	2:231:B:LEU:HD23	2:158:B:GLU:H	14	0.74
(1,633)	1:10:A:ILE:HD12	1:35:A:VAL:H	5	0.74
(1,633)	1:10:A:ILE:HD12	1:35:A:VAL:H	12	0.74
(1,633)	1:7:A:ILE:HG22	1:35:A:VAL:H	13	0.74
(1,631)	2:187:B:LEU:HD12	2:197:B:LEU:H	17	0.74
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD1	3	0.73
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG23	10	0.73
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG21	19	0.73
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB1	11	0.73
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG22	15	0.73
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG22	20	0.73
(1,5384)	2:156:B:LEU:HD21	2:162:B:THR:HG21	6	0.73
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG22	12	0.73
(1,5191)	1:24:A:PHE:HE1	2:244:B:LEU:HD21	14	0.73
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD22	1	0.73
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD23	17	0.73
(1,4639)	2:149:B:ILE:HG21	2:150:B:GLU:HB2	4	0.73
(1,4639)	2:149:B:ILE:HG21	2:150:B:GLU:HB2	6	0.73
(1,4316)	2:208:B:LEU:H	2:205:B:ARG:HG3	7	0.73
(1,4278)	1:17:A:VAL:HG23	1:23:A:GLU:HB2	20	0.73
(1,4265)	2:219:B:ILE:HG21	2:205:B:ARG:HB2	11	0.73
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG3	6	0.73
(1,3227)	2:174:B:ARG:HA	2:177:B:ARG:HD2	1	0.73
(1,3088)	2:214:B:VAL:HG12	2:212:B:ALA:HA	12	0.73
(1,2925)	2:188:B:ALA:HB2	2:184:B:ALA:HA	1	0.73
(1,2713)	2:153:B:LYS:HG3	2:150:B:GLU:HA	5	0.73
(1,2309)	2:223:B:ARG:HG3	2:203:B:ILE:HD12	8	0.73
(1,2309)	2:223:B:ARG:HG3	2:203:B:ILE:HD11	13	0.73
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD12	18	0.73
(1,2196)	1:18:A:LEU:HA	1:6:A:ILE:HD12	12	0.73
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD13	18	0.73
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD11	9	0.73
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD13	6	0.73
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD12	18	0.73
(1,2031)	1:39:A:VAL:HG21	1:5:A:GLY:H	14	0.73
(1,1837)	1:4:A:LEU:HD12	1:20:A:SER:H	9	0.73
(1,1834)	2:199:B:LYS:HB2	2:202:B:ASN:H	8	0.73
(1,1739)	2:219:B:ILE:HG21	2:222:B:ASN:H	18	0.73
(1,1523)	2:168:B:LEU:HD21	2:168:B:LEU:H	18	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1458)	2:211:B:LYS:HD3	2:212:B:ALA:H	3	0.73
(1,1144)	2:161:B:ILE:HD11	2:157:B:GLN:H	16	0.73
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	10	0.73
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	20	0.73
(1,1132)	1:16:A:VAL:HG21	2:164:B:LEU:H	20	0.73
(1,1126)	1:16:A:VAL:HG22	2:163:B:PHE:H	3	0.73
(1,662)	1:7:A:ILE:HG23	1:16:A:VAL:H	8	0.73
(1,641)	1:49:A:VAL:HG11	1:49:A:VAL:H	11	0.73
(1,633)	1:7:A:ILE:HG21	1:35:A:VAL:H	19	0.73
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	20	0.73
(1,180)	1:26:A:ILE:HG21	1:29:A:ARG:H	3	0.73
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD1	14	0.72
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD1	11	0.72
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG23	18	0.72
(1,5701)	2:227:B:ILE:HG21	2:161:B:ILE:HG21	5	0.72
(1,5640)	2:208:B:LEU:HG	2:218:B:THR:HB	13	0.72
(1,5633)	2:222:B:ASN:HB3	2:226:B:ILE:HG21	2	0.72
(1,5633)	2:180:B:CYS:HB2	2:226:B:ILE:HG23	6	0.72
(1,5631)	1:38:A:GLN:HG3	2:143:B:ILE:HG22	2	0.72
(1,5631)	1:38:A:GLN:HG3	2:143:B:ILE:HG23	19	0.72
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG22	12	0.72
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB2	16	0.72
(1,5542)	2:197:B:LEU:HA	2:198:B:MET:HE2	13	0.72
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG23	11	0.72
(1,5389)	2:149:B:ILE:HD12	1:35:A:VAL:HG12	1	0.72
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG22	15	0.72
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG12	18	0.72
(1,5325)	2:167:B:VAL:HB	1:16:A:VAL:HG22	9	0.72
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB1	19	0.72
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG11	7	0.72
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG13	19	0.72
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG12	9	0.72
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD12	5	0.72
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD11	6	0.72
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD12	5	0.72
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD12	13	0.72
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD13	7	0.72
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD13	17	0.72
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD22	10	0.72
(1,4560)	1:45:A:ASP:HB2	1:3:A:ARG:HG3	1	0.72
(1,4560)	1:20:A:SER:HB3	1:3:A:ARG:HG2	17	0.72
(1,4316)	2:208:B:LEU:H	2:205:B:ARG:HG3	14	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4262)	1:6:A:ILE:HG21	1:37:A:GLN:HB3	7	0.72
(1,4220)	2:146:B:ARG:HD2	1:34:A:LYS:HD3	13	0.72
(1,4021)	2:156:B:LEU:HD11	2:157:B:GLN:HG2	20	0.72
(1,3580)	2:236:B:ASN:HD21	2:151:B:GLU:HG3	9	0.72
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	20	0.72
(1,3473)	1:3:A:ARG:HG3	1:2:A:ASN:HB3	9	0.72
(1,3278)	2:219:B:ILE:HG21	2:205:B:ARG:HD3	5	0.72
(1,3278)	1:35:A:VAL:HG11	2:146:B:ARG:HD2	10	0.72
(1,3278)	2:219:B:ILE:HG21	2:205:B:ARG:HD2	12	0.72
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	17	0.72
(1,2309)	2:223:B:ARG:HG3	2:203:B:ILE:HD11	16	0.72
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD12	12	0.72
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD13	17	0.72
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD12	4	0.72
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD12	4	0.72
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD13	8	0.72
(1,2031)	1:39:A:VAL:HG21	1:5:A:GLY:H	12	0.72
(1,2031)	1:39:A:VAL:HG21	1:5:A:GLY:H	20	0.72
(1,2024)	2:218:B:THR:HG22	2:180:B:CYS:H	16	0.72
(1,1540)	2:232:B:ILE:HG22	2:235:B:SER:H	15	0.72
(1,1523)	2:168:B:LEU:HD22	2:168:B:LEU:H	13	0.72
(1,1413)	1:31:A:LYS:HE2	1:33:A:MET:H	9	0.72
(1,1176)	1:35:A:VAL:HG12	2:148:B:ASP:H	1	0.72
(1,1155)	2:203:B:ILE:HD11	2:225:B:TYR:H	15	0.72
(1,1142)	1:35:A:VAL:HG12	2:151:B:GLU:H	12	0.72
(1,1142)	1:35:A:VAL:HG13	2:151:B:GLU:H	18	0.72
(1,1126)	1:16:A:VAL:HG23	2:163:B:PHE:H	8	0.72
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	8	0.72
(1,567)	2:196:B:ALA:HB3	2:193:B:MET:H	3	0.72
(1,567)	2:196:B:ALA:HB1	2:193:B:MET:H	11	0.72
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG12	18	0.71
(1,5940)	1:39:A:VAL:HG12	1:17:A:VAL:HG21	15	0.71
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG23	16	0.71
(1,5701)	2:227:B:ILE:HG22	2:161:B:ILE:HG21	9	0.71
(1,5701)	2:227:B:ILE:HG21	2:161:B:ILE:HG22	16	0.71
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE2	5	0.71
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB1	3	0.71
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB1	17	0.71
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG21	14	0.71
(1,5389)	1:17:A:VAL:HG11	1:39:A:VAL:HG23	16	0.71
(1,5384)	2:156:B:LEU:HD23	2:162:B:THR:HG23	1	0.71
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD13	7	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG21	9	0.71
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB1	2	0.71
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB3	10	0.71
(1,4993)	1:14:A:LYS:HE2	2:164:B:LEU:HD13	4	0.71
(1,4989)	2:167:B:VAL:HB	2:164:B:LEU:HD22	8	0.71
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD13	17	0.71
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD22	5	0.71
(1,4818)	2:163:B:PHE:HE2	2:152:B:LEU:HD13	17	0.71
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD13	5	0.71
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD12	11	0.71
(1,4770)	2:247:B:TYR:H	2:250:B:LEU:HD21	12	0.71
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD23	4	0.71
(1,4316)	2:180:B:CYS:H	2:177:B:ARG:HG3	8	0.71
(1,4265)	2:219:B:ILE:HG21	2:205:B:ARG:HB2	14	0.71
(1,3942)	1:34:A:LYS:HE3	1:37:A:GLN:HG2	3	0.71
(1,3555)	2:237:B:LEU:H	2:144:B:GLU:HG3	5	0.71
(1,3473)	1:3:A:ARG:HG3	1:2:A:ASN:HB3	17	0.71
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	2	0.71
(1,3278)	2:219:B:ILE:HG22	2:205:B:ARG:HD3	2	0.71
(1,3278)	2:219:B:ILE:HG22	2:205:B:ARG:HD2	9	0.71
(1,3278)	1:35:A:VAL:HG13	2:146:B:ARG:HD2	17	0.71
(1,2467)	2:229:B:LEU:HB3	2:233:B:PHE:HA	8	0.71
(1,2309)	2:223:B:ARG:HG3	2:203:B:ILE:HD13	1	0.71
(1,2309)	2:208:B:LEU:HB2	2:203:B:ILE:HD12	10	0.71
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD11	9	0.71
(1,2196)	1:18:A:LEU:HA	1:6:A:ILE:HD13	19	0.71
(1,2146)	2:163:B:PHE:HE2	2:232:B:ILE:HD13	14	0.71
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD12	4	0.71
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD11	16	0.71
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD13	10	0.71
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD11	11	0.71
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD11	16	0.71
(1,2048)	2:187:B:LEU:HD13	2:197:B:LEU:H	15	0.71
(1,1912)	2:161:B:ILE:HD11	2:160:B:GLY:H	5	0.71
(1,1906)	2:209:B:LYS:HG3	2:214:B:VAL:H	16	0.71
(1,1837)	1:4:A:LEU:HD12	1:20:A:SER:H	18	0.71
(1,1458)	2:211:B:LYS:HD2	2:212:B:ALA:H	1	0.71
(1,1458)	2:211:B:LYS:HD3	2:212:B:ALA:H	9	0.71
(1,1176)	1:35:A:VAL:HG11	2:148:B:ASP:H	7	0.71
(1,1151)	2:161:B:ILE:HD13	2:228:B:ALA:H	5	0.71
(1,1151)	2:161:B:ILE:HD11	2:228:B:ALA:H	7	0.71
(1,1142)	2:152:B:LEU:HD13	2:151:B:GLU:H	2	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1126)	1:16:A:VAL:HG22	2:163:B:PHE:H	6	0.71
(1,971)	2:213:B:LYS:HE2	2:211:B:LYS:H	5	0.71
(1,633)	1:10:A:ILE:HD11	1:35:A:VAL:H	6	0.71
(1,633)	1:7:A:ILE:HG22	1:35:A:VAL:H	16	0.71
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	16	0.71
(1,180)	1:26:A:ILE:HG23	1:29:A:ARG:H	13	0.71
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD2	9	0.7
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD2	14	0.7
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE2	8	0.7
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG22	14	0.7
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE1	2	0.7
(1,5633)	2:222:B:ASN:HB3	2:226:B:ILE:HG21	20	0.7
(1,5621)	2:178:B:GLN:HG2	2:181:B:ILE:HG23	10	0.7
(1,5384)	2:156:B:LEU:HD21	2:162:B:THR:HG21	2	0.7
(1,5384)	2:156:B:LEU:HD21	2:162:B:THR:HG21	4	0.7
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG21	9	0.7
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG21	15	0.7
(1,5052)	2:167:B:VAL:HG12	2:170:B:VAL:HG13	12	0.7
(1,5052)	2:167:B:VAL:HG11	2:170:B:VAL:HG12	15	0.7
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD12	8	0.7
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD12	3	0.7
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD11	16	0.7
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD11	11	0.7
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD12	15	0.7
(1,4818)	2:163:B:PHE:HE1	2:152:B:LEU:HD11	4	0.7
(1,4818)	2:163:B:PHE:HE1	2:152:B:LEU:HD11	18	0.7
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD12	3	0.7
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD13	4	0.7
(1,4679)	2:232:B:ILE:HG23	2:152:B:LEU:HD22	3	0.7
(1,4592)	2:142:B:ASP:HB2	2:143:B:ILE:HG13	12	0.7
(1,4572)	2:230:B:CYS:HB3	2:229:B:LEU:HD22	12	0.7
(1,4546)	1:43:A:ASN:HB3	1:44:A:GLU:HB2	6	0.7
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD22	17	0.7
(1,4220)	2:215:B:HIS:HB2	2:219:B:ILE:HG13	12	0.7
(1,4021)	2:156:B:LEU:HD11	2:157:B:GLN:HG2	9	0.7
(1,4021)	2:156:B:LEU:HD13	2:157:B:GLN:HG2	15	0.7
(1,3967)	2:193:B:MET:HG2	2:211:B:LYS:HB2	17	0.7
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	14	0.7
(1,3473)	1:3:A:ARG:HG3	1:2:A:ASN:HB3	7	0.7
(1,3278)	1:35:A:VAL:HG13	2:146:B:ARG:HD2	3	0.7
(1,3278)	2:219:B:ILE:HG23	2:205:B:ARG:HD2	8	0.7
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	19	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD11	15	0.7
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD11	1	0.7
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD12	6	0.7
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD13	9	0.7
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD11	14	0.7
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD13	17	0.7
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD11	13	0.7
(1,2047)	2:203:B:ILE:HG21	2:208:B:LEU:H	2	0.7
(1,2031)	1:39:A:VAL:HG23	1:5:A:GLY:H	4	0.7
(1,2031)	1:39:A:VAL:HG21	1:5:A:GLY:H	18	0.7
(1,1167)	1:25:A:LEU:HB2	1:46:A:ILE:H	5	0.7
(1,1151)	2:161:B:ILE:HD13	2:228:B:ALA:H	18	0.7
(1,1126)	1:16:A:VAL:HG21	2:163:B:PHE:H	4	0.7
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	11	0.7
(1,822)	1:24:A:PHE:HD2	2:166:B:LEU:H	11	0.7
(1,623)	2:232:B:ILE:HD13	2:233:B:PHE:H	12	0.7
(1,567)	2:196:B:ALA:HB1	2:193:B:MET:H	15	0.7
(1,567)	2:196:B:ALA:HB2	2:193:B:MET:H	18	0.7
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	3	0.7
(1,180)	1:26:A:ILE:HG23	1:29:A:ARG:H	5	0.7
(1,127)	1:28:A:ARG:HD3	1:29:A:ARG:H	13	0.7
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD1	4	0.69
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD1	8	0.69
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG22	7	0.69
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG21	13	0.69
(1,5701)	2:227:B:ILE:HG23	2:161:B:ILE:HG21	15	0.69
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE1	8	0.69
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE1	12	0.69
(1,5633)	2:186:B:MET:HG2	2:226:B:ILE:HG22	13	0.69
(1,5631)	1:37:A:GLN:HB2	2:143:B:ILE:HG23	20	0.69
(1,5610)	2:205:B:ARG:HD3	2:203:B:ILE:HG21	16	0.69
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB2	7	0.69
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB1	14	0.69
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB2	19	0.69
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG23	4	0.69
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB3	9	0.69
(1,5384)	2:156:B:LEU:HD21	2:162:B:THR:HG22	8	0.69
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG21	14	0.69
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG22	16	0.69
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG12	6	0.69
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB2	13	0.69
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB3	18	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5052)	2:167:B:VAL:HG13	2:170:B:VAL:HG13	14	0.69
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD13	19	0.69
(1,4818)	2:163:B:PHE:HE2	2:152:B:LEU:HD11	12	0.69
(1,4770)	2:247:B:TYR:H	2:250:B:LEU:HD23	18	0.69
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD22	1	0.69
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD23	5	0.69
(1,4546)	1:43:A:ASN:HB3	1:44:A:GLU:HB2	20	0.69
(1,4430)	1:23:A:GLU:H	1:25:A:LEU:HD11	8	0.69
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD21	16	0.69
(1,4302)	1:19:A:THR:H	1:25:A:LEU:HD13	20	0.69
(1,4265)	2:219:B:ILE:HG22	2:205:B:ARG:HB2	5	0.69
(1,4265)	2:219:B:ILE:HG23	2:205:B:ARG:HB2	9	0.69
(1,4262)	1:6:A:ILE:HG23	1:37:A:GLN:HB3	18	0.69
(1,4021)	2:156:B:LEU:HD11	2:157:B:GLN:HG2	4	0.69
(1,4021)	2:156:B:LEU:HD11	2:157:B:GLN:HG2	5	0.69
(1,4021)	2:156:B:LEU:HD11	2:157:B:GLN:HG2	8	0.69
(1,4021)	2:156:B:LEU:HD12	2:157:B:GLN:HG2	17	0.69
(1,3743)	2:149:B:ILE:HG12	2:150:B:GLU:HG2	2	0.69
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	19	0.69
(1,3473)	1:3:A:ARG:HG3	1:2:A:ASN:HB3	4	0.69
(1,3473)	1:3:A:ARG:HG2	1:2:A:ASN:HB3	12	0.69
(1,3473)	1:3:A:ARG:HG3	1:2:A:ASN:HB3	13	0.69
(1,3278)	2:219:B:ILE:HG23	2:205:B:ARG:HD3	11	0.69
(1,2925)	2:188:B:ALA:HB2	2:184:B:ALA:HA	3	0.69
(1,2309)	2:223:B:ARG:HG3	2:203:B:ILE:HD13	7	0.69
(1,2231)	2:225:B:TYR:HB3	2:226:B:ILE:HD12	16	0.69
(1,2146)	2:163:B:PHE:HE1	2:232:B:ILE:HD12	16	0.69
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD11	15	0.69
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD11	18	0.69
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD12	5	0.69
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD13	2	0.69
(1,1912)	2:161:B:ILE:HD13	2:160:B:GLY:H	9	0.69
(1,1834)	2:199:B:LYS:HB2	2:202:B:ASN:H	11	0.69
(1,1834)	2:199:B:LYS:HB2	2:202:B:ASN:H	12	0.69
(1,1741)	2:170:B:VAL:HG23	1:23:A:GLU:H	9	0.69
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	3	0.69
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	3	0.69
(1,1167)	1:25:A:LEU:HB2	1:46:A:ILE:H	15	0.69
(1,1161)	2:161:B:ILE:HD13	2:161:B:ILE:H	6	0.69
(1,1151)	2:161:B:ILE:HD12	2:228:B:ALA:H	2	0.69
(1,1148)	2:208:B:LEU:HD13	2:187:B:LEU:H	3	0.69
(1,1148)	2:208:B:LEU:HD12	2:187:B:LEU:H	12	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	18	0.69
(1,633)	1:7:A:ILE:HG22	1:35:A:VAL:H	7	0.69
(1,633)	1:7:A:ILE:HG22	1:35:A:VAL:H	8	0.69
(1,6184)	2:172:B:LYS:HB2	2:173:B:HIS:HD2	10	0.68
(1,6109)	1:16:A:VAL:HG22	2:163:B:PHE:HD2	6	0.68
(1,6109)	1:16:A:VAL:HG21	2:163:B:PHE:HD2	18	0.68
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG13	12	0.68
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG12	13	0.68
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG22	9	0.68
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE2	15	0.68
(1,5640)	2:183:B:LEU:HG	2:218:B:THR:HB	14	0.68
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG23	2	0.68
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG23	4	0.68
(1,5428)	2:212:B:ALA:H	2:186:B:MET:HE1	19	0.68
(1,5389)	1:17:A:VAL:HG11	1:39:A:VAL:HG22	12	0.68
(1,5384)	2:156:B:LEU:HD23	2:162:B:THR:HG23	7	0.68
(1,5325)	2:167:B:VAL:HB	1:16:A:VAL:HG23	20	0.68
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB1	15	0.68
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD12	4	0.68
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD22	6	0.68
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD12	18	0.68
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD11	10	0.68
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD21	13	0.68
(1,4639)	2:214:B:VAL:HG11	2:213:B:LYS:HB3	16	0.68
(1,4401)	2:155:B:LYS:H	2:156:B:LEU:HD22	6	0.68
(1,4234)	2:158:B:GLU:HG2	2:155:B:LYS:HD3	11	0.68
(1,4021)	2:156:B:LEU:HD12	2:157:B:GLN:HG2	13	0.68
(1,4021)	2:156:B:LEU:HD13	2:157:B:GLN:HG2	18	0.68
(1,3785)	2:149:B:ILE:HG21	1:9:A:GLU:HG3	17	0.68
(1,3774)	1:35:A:VAL:HG22	1:9:A:GLU:HG2	4	0.68
(1,3473)	1:3:A:ARG:HG3	1:2:A:ASN:HB3	14	0.68
(1,3278)	2:219:B:ILE:HG22	2:205:B:ARG:HD3	19	0.68
(1,3246)	1:13:A:MET:HB3	1:29:A:ARG:HD2	2	0.68
(1,3193)	2:247:B:TYR:HD2	2:177:B:ARG:HD3	14	0.68
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	10	0.68
(1,3088)	2:214:B:VAL:HG11	2:212:B:ALA:HA	1	0.68
(1,2925)	2:188:B:ALA:HB3	2:184:B:ALA:HA	13	0.68
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	10	0.68
(1,2362)	2:237:B:LEU:HD12	2:232:B:ILE:HA	11	0.68
(1,2235)	2:222:B:ASN:HB2	2:203:B:ILE:HD13	10	0.68
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD12	20	0.68
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD13	11	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD11	16	0.68
(1,2031)	1:39:A:VAL:HG21	1:5:A:GLY:H	15	0.68
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	7	0.68
(1,1739)	2:183:B:LEU:HD11	2:222:B:ASN:H	9	0.68
(1,1523)	2:168:B:LEU:HD22	2:168:B:LEU:H	15	0.68
(1,1458)	2:211:B:LYS:HD2	2:212:B:ALA:H	8	0.68
(1,1458)	2:211:B:LYS:HD2	2:212:B:ALA:H	16	0.68
(1,1295)	2:194:B:TYR:HE1	2:195:B:ASN:H	12	0.68
(1,1167)	1:25:A:LEU:HB2	1:46:A:ILE:H	16	0.68
(1,1142)	2:152:B:LEU:HD11	2:151:B:GLU:H	14	0.68
(1,1135)	2:231:B:LEU:HB3	2:153:B:LYS:H	1	0.68
(1,1132)	2:164:B:LEU:HD21	2:164:B:LEU:H	10	0.68
(1,1126)	1:16:A:VAL:HG21	2:163:B:PHE:H	12	0.68
(1,1107)	2:213:B:LYS:HD3	2:210:B:LYS:H	17	0.68
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	9	0.68
(1,822)	1:24:A:PHE:HD1	2:166:B:LEU:H	17	0.68
(1,822)	1:24:A:PHE:HD1	2:166:B:LEU:H	20	0.68
(1,679)	2:231:B:LEU:HD21	2:158:B:GLU:H	7	0.68
(1,619)	2:167:B:VAL:HG21	1:25:A:LEU:H	15	0.68
(1,567)	2:196:B:ALA:HB3	2:193:B:MET:H	9	0.68
(1,567)	2:196:B:ALA:HB3	2:193:B:MET:H	14	0.68
(1,180)	1:10:A:ILE:HG23	1:29:A:ARG:H	4	0.68
(1,127)	1:28:A:ARG:HD3	1:29:A:ARG:H	10	0.68
(1,127)	1:28:A:ARG:HD3	1:29:A:ARG:H	14	0.68
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD2	5	0.67
(1,5940)	1:39:A:VAL:HG13	1:17:A:VAL:HG23	14	0.67
(1,5891)	2:160:B:GLY:H	2:161:B:ILE:HD12	7	0.67
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG22	2	0.67
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG21	15	0.67
(1,5610)	2:205:B:ARG:HD3	2:203:B:ILE:HG22	19	0.67
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG22	8	0.67
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG21	2	0.67
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG23	19	0.67
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG12	17	0.67
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG12	9	0.67
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG13	11	0.67
(1,4993)	1:14:A:LYS:HE2	2:164:B:LEU:HD12	14	0.67
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG23	15	0.67
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD12	18	0.67
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD23	5	0.67
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD21	7	0.67
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD21	8	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD23	14	0.67
(1,4818)	2:163:B:PHE:HE2	2:152:B:LEU:HD11	19	0.67
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD22	7	0.67
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD22	12	0.67
(1,4643)	2:167:B:VAL:HG11	2:168:B:LEU:HG	6	0.67
(1,4546)	1:43:A:ASN:HB3	1:44:A:GLU:HB2	9	0.67
(1,4401)	2:155:B:LYS:H	2:156:B:LEU:HD23	11	0.67
(1,4265)	2:219:B:ILE:HG23	2:205:B:ARG:HB2	3	0.67
(1,4021)	2:156:B:LEU:HD13	2:157:B:GLN:HG2	1	0.67
(1,4021)	2:156:B:LEU:HD13	2:157:B:GLN:HG2	6	0.67
(1,4021)	2:156:B:LEU:HD12	2:157:B:GLN:HG2	12	0.67
(1,4021)	2:156:B:LEU:HD13	2:157:B:GLN:HG2	16	0.67
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	3	0.67
(1,3473)	1:3:A:ARG:HG2	1:2:A:ASN:HB3	1	0.67
(1,3088)	2:214:B:VAL:HG12	2:212:B:ALA:HA	3	0.67
(1,3088)	2:214:B:VAL:HG11	2:212:B:ALA:HA	8	0.67
(1,2621)	2:213:B:LYS:HE3	2:211:B:LYS:HA	11	0.67
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD13	6	0.67
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD11	3	0.67
(1,2146)	2:163:B:PHE:HE2	2:232:B:ILE:HD11	13	0.67
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD12	5	0.67
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD13	10	0.67
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD12	14	0.67
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD11	8	0.67
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD13	3	0.67
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD12	9	0.67
(1,2031)	1:39:A:VAL:HG22	1:5:A:GLY:H	9	0.67
(1,1991)	1:26:A:ILE:HD11	1:49:A:VAL:H	4	0.67
(1,1991)	1:26:A:ILE:HD11	1:49:A:VAL:H	15	0.67
(1,1946)	2:181:B:ILE:HB	2:248:B:THR:H	7	0.67
(1,1912)	2:161:B:ILE:HD12	2:160:B:GLY:H	7	0.67
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	19	0.67
(1,1503)	2:214:B:VAL:HG12	2:212:B:ALA:H	9	0.67
(1,1443)	2:179:B:LEU:HB2	2:176:B:SER:H	1	0.67
(1,1299)	1:41:A:PHE:HZ	1:21:A:GLU:H	5	0.67
(1,1151)	2:161:B:ILE:HD12	2:228:B:ALA:H	3	0.67
(1,1151)	2:161:B:ILE:HD12	2:228:B:ALA:H	11	0.67
(1,1148)	2:208:B:LEU:HD13	2:187:B:LEU:H	5	0.67
(1,1148)	2:208:B:LEU:HD11	2:187:B:LEU:H	13	0.67
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	4	0.67
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	10	0.67
(1,952)	2:154:B:LYS:HE3	2:153:B:LYS:H	13	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,822)	1:24:A:PHE:HD1	2:166:B:LEU:H	4	0.67
(1,822)	1:24:A:PHE:HD2	2:166:B:LEU:H	6	0.67
(1,822)	1:24:A:PHE:HD2	2:166:B:LEU:H	10	0.67
(1,633)	1:7:A:ILE:HG22	1:35:A:VAL:H	11	0.67
(1,633)	1:10:A:ILE:HD11	1:35:A:VAL:H	15	0.67
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	11	0.67
(1,180)	1:26:A:ILE:HG23	1:29:A:ARG:H	20	0.67
(1,6184)	2:172:B:LYS:HB2	2:173:B:HIS:HD2	16	0.66
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD1	10	0.66
(1,5701)	2:227:B:ILE:HG22	2:161:B:ILE:HG23	1	0.66
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE3	19	0.66
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG21	16	0.66
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG22	16	0.66
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG23	16	0.66
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG21	14	0.66
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG22	11	0.66
(1,5342)	2:164:B:LEU:HB2	2:162:B:THR:HG23	3	0.66
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG11	13	0.66
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG21	16	0.66
(1,5052)	2:167:B:VAL:HG12	2:170:B:VAL:HG12	2	0.66
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD12	7	0.66
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD11	2	0.66
(1,4770)	2:182:B:ARG:H	2:185:B:LYS:HG2	11	0.66
(1,4639)	2:214:B:VAL:HG11	2:213:B:LYS:HB3	7	0.66
(1,4629)	2:181:B:ILE:HB	2:229:B:LEU:HD22	20	0.66
(1,4316)	1:28:A:ARG:H	1:30:A:ARG:HG2	16	0.66
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD11	6	0.66
(1,4262)	1:6:A:ILE:HG23	1:37:A:GLN:HB3	11	0.66
(1,4262)	1:6:A:ILE:HG23	1:37:A:GLN:HB3	19	0.66
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	2	0.66
(1,4021)	2:156:B:LEU:HD12	2:157:B:GLN:HG2	2	0.66
(1,4021)	2:156:B:LEU:HD11	2:157:B:GLN:HG2	3	0.66
(1,4021)	2:156:B:LEU:HD11	2:157:B:GLN:HG2	7	0.66
(1,4021)	2:156:B:LEU:HD11	2:157:B:GLN:HG2	11	0.66
(1,4006)	1:7:A:ILE:HG21	1:37:A:GLN:HG3	19	0.66
(1,3967)	2:193:B:MET:HG2	2:211:B:LYS:HB2	13	0.66
(1,3742)	2:145:B:ALA:HB3	2:147:B:GLU:HG2	14	0.66
(1,3742)	2:146:B:ARG:HG3	2:150:B:GLU:HG2	15	0.66
(1,3580)	2:151:B:GLU:H	2:151:B:GLU:HG3	2	0.66
(1,3580)	2:151:B:GLU:H	2:151:B:GLU:HG2	11	0.66
(1,3227)	2:174:B:ARG:HA	2:177:B:ARG:HD2	6	0.66
(1,3216)	1:50:A:ARG:HA	1:50:A:ARG:HD3	14	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3102)	2:193:B:MET:HG3	2:204:B:PRO:HD2	7	0.66
(1,3089)	2:187:B:LEU:HD13	2:188:B:ALA:HA	12	0.66
(1,3089)	2:187:B:LEU:HD11	2:188:B:ALA:HA	17	0.66
(1,3089)	2:187:B:LEU:HD11	2:188:B:ALA:HA	18	0.66
(1,2925)	2:188:B:ALA:HB1	2:184:B:ALA:HA	20	0.66
(1,2721)	2:244:B:LEU:HD22	1:20:A:SER:HA	10	0.66
(1,2302)	2:185:B:LYS:HB2	2:181:B:ILE:HD12	17	0.66
(1,2196)	1:18:A:LEU:HA	1:6:A:ILE:HD11	10	0.66
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD11	1	0.66
(1,2031)	1:39:A:VAL:HG23	1:5:A:GLY:H	6	0.66
(1,2031)	1:39:A:VAL:HG22	1:5:A:GLY:H	17	0.66
(1,1912)	2:161:B:ILE:HD13	2:160:B:GLY:H	15	0.66
(1,1834)	2:199:B:LYS:HB2	2:202:B:ASN:H	18	0.66
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	1	0.66
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	11	0.66
(1,1705)	2:219:B:ILE:HG13	2:222:B:ASN:HD21	10	0.66
(1,1176)	1:35:A:VAL:HG12	2:148:B:ASP:H	18	0.66
(1,1167)	1:25:A:LEU:HB2	1:46:A:ILE:H	11	0.66
(1,1151)	2:161:B:ILE:HD13	2:228:B:ALA:H	4	0.66
(1,1148)	2:208:B:LEU:HD11	2:187:B:LEU:H	1	0.66
(1,1148)	2:208:B:LEU:HD12	2:187:B:LEU:H	6	0.66
(1,1142)	2:152:B:LEU:HD13	2:151:B:GLU:H	6	0.66
(1,1142)	2:152:B:LEU:HD13	2:151:B:GLU:H	13	0.66
(1,1142)	2:152:B:LEU:HD12	2:151:B:GLU:H	15	0.66
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	6	0.66
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	3	0.66
(1,822)	1:24:A:PHE:HD2	2:166:B:LEU:H	12	0.66
(1,633)	1:10:A:ILE:HD13	1:35:A:VAL:H	10	0.66
(1,5940)	1:39:A:VAL:HG13	1:17:A:VAL:HG22	11	0.65
(1,5891)	2:160:B:GLY:H	2:161:B:ILE:HD11	13	0.65
(1,5891)	2:160:B:GLY:H	2:161:B:ILE:HD12	19	0.65
(1,5640)	2:208:B:LEU:HG	2:218:B:THR:HB	17	0.65
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB2	10	0.65
(1,5384)	2:156:B:LEU:HD21	2:162:B:THR:HG22	3	0.65
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG23	18	0.65
(1,5191)	1:24:A:PHE:HE1	2:244:B:LEU:HD21	10	0.65
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG22	3	0.65
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG21	14	0.65
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD11	17	0.65
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD13	10	0.65
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD12	15	0.65
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD21	7	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD13	9	0.65
(1,4770)	2:247:B:TYR:H	2:250:B:LEU:HD21	16	0.65
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD21	8	0.65
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD13	16	0.65
(1,4197)	2:205:B:ARG:HA	2:219:B:ILE:HG13	20	0.65
(1,4021)	2:156:B:LEU:HD12	2:157:B:GLN:HG2	10	0.65
(1,4021)	2:156:B:LEU:HD11	2:157:B:GLN:HG2	14	0.65
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	16	0.65
(1,3089)	2:187:B:LEU:HD13	2:188:B:ALA:HA	10	0.65
(1,2714)	2:232:B:ILE:HG12	2:241:B:LYS:HA	10	0.65
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	6	0.65
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	15	0.65
(1,2302)	2:171:B:PRO:HB3	2:181:B:ILE:HD12	9	0.65
(1,2302)	2:185:B:LYS:HB2	2:181:B:ILE:HD13	16	0.65
(1,2300)	1:23:A:GLU:HG3	2:181:B:ILE:HD12	16	0.65
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD13	17	0.65
(1,2047)	2:203:B:ILE:HG22	2:208:B:LEU:H	10	0.65
(1,1912)	2:161:B:ILE:HD11	2:160:B:GLY:H	13	0.65
(1,1912)	2:161:B:ILE:HD13	2:160:B:GLY:H	14	0.65
(1,1912)	2:161:B:ILE:HD11	2:160:B:GLY:H	18	0.65
(1,1912)	2:161:B:ILE:HD12	2:160:B:GLY:H	19	0.65
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	5	0.65
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	2	0.65
(1,1705)	2:219:B:ILE:HG13	2:222:B:ASN:HD21	4	0.65
(1,1299)	1:41:A:PHE:HZ	1:21:A:GLU:H	14	0.65
(1,1148)	2:208:B:LEU:HD11	2:187:B:LEU:H	15	0.65
(1,1148)	2:208:B:LEU:HD11	2:187:B:LEU:H	16	0.65
(1,1142)	1:35:A:VAL:HG12	2:151:B:GLU:H	1	0.65
(1,1103)	2:156:B:LEU:HB3	2:166:B:LEU:H	17	0.65
(1,619)	2:167:B:VAL:HG21	1:25:A:LEU:H	16	0.65
(1,258)	2:144:B:GLU:HB3	2:237:B:LEU:H	1	0.65
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	10	0.65
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD1	20	0.64
(1,6184)	2:172:B:LYS:HB2	2:173:B:HIS:HD2	7	0.64
(1,5891)	2:224:B:LYS:H	2:161:B:ILE:HD12	14	0.64
(1,5852)	2:225:B:TYR:HE2	2:170:B:VAL:HG13	17	0.64
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG23	2	0.64
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG21	19	0.64
(1,5669)	2:181:B:ILE:HD13	2:248:B:THR:HB	4	0.64
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE3	11	0.64
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB2	7	0.64
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG21	7	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG23	19	0.64
(1,5542)	2:197:B:LEU:HA	2:198:B:MET:HE3	7	0.64
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG23	3	0.64
(1,5342)	2:164:B:LEU:HB2	2:162:B:THR:HG21	1	0.64
(1,5191)	1:24:A:PHE:HE2	2:244:B:LEU:HD21	4	0.64
(1,5052)	2:167:B:VAL:HG11	2:170:B:VAL:HG11	3	0.64
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG23	1	0.64
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD11	9	0.64
(1,4684)	2:149:B:ILE:HD12	2:237:B:LEU:HD23	15	0.64
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD11	19	0.64
(1,4265)	2:219:B:ILE:HG21	2:205:B:ARG:HB2	17	0.64
(1,4120)	2:163:B:PHE:HE1	2:153:B:LYS:HD2	17	0.64
(1,3967)	2:193:B:MET:HG2	2:211:B:LYS:HB2	14	0.64
(1,3743)	2:149:B:ILE:HG12	2:147:B:GLU:HG2	18	0.64
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	3	0.64
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	5	0.64
(1,3716)	1:3:A:ARG:HD2	1:21:A:GLU:HG3	3	0.64
(1,3713)	2:154:B:LYS:HE3	2:151:B:GLU:HG2	5	0.64
(1,3580)	2:236:B:ASN:HD21	2:151:B:GLU:HG2	10	0.64
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG3	17	0.64
(1,3473)	1:3:A:ARG:HG3	1:2:A:ASN:HB3	11	0.64
(1,3457)	2:179:B:LEU:HB3	2:175:B:ASP:HB3	12	0.64
(1,3274)	2:203:B:ILE:HG13	2:223:B:ARG:HD3	1	0.64
(1,3242)	1:33:A:MET:HG3	1:30:A:ARG:HD2	4	0.64
(1,2925)	2:188:B:ALA:HB2	2:184:B:ALA:HA	15	0.64
(1,2714)	2:232:B:ILE:HG12	2:241:B:LYS:HA	6	0.64
(1,2611)	2:210:B:LYS:HE2	2:210:B:LYS:HA	19	0.64
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	14	0.64
(1,2369)	2:149:B:ILE:HD12	1:35:A:VAL:HA	20	0.64
(1,2302)	2:185:B:LYS:HB2	2:181:B:ILE:HD12	4	0.64
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD12	12	0.64
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD12	3	0.64
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD11	12	0.64
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD12	15	0.64
(1,1912)	2:161:B:ILE:HD11	2:160:B:GLY:H	1	0.64
(1,1837)	1:4:A:LEU:HD12	1:20:A:SER:H	16	0.64
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	5	0.64
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	8	0.64
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	9	0.64
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	10	0.64
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	18	0.64
(1,1413)	1:29:A:ARG:HD2	1:33:A:MET:H	6	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1176)	1:35:A:VAL:HG12	2:148:B:ASP:H	3	0.64
(1,1176)	1:35:A:VAL:HG12	2:148:B:ASP:H	9	0.64
(1,1176)	1:35:A:VAL:HG11	2:148:B:ASP:H	12	0.64
(1,1148)	2:208:B:LEU:HD12	2:187:B:LEU:H	17	0.64
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	4	0.64
(1,1135)	2:231:B:LEU:HB3	2:153:B:LYS:H	12	0.64
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	15	0.64
(1,1126)	1:16:A:VAL:HG21	2:163:B:PHE:H	18	0.64
(1,1125)	2:162:B:THR:HG23	2:163:B:PHE:H	1	0.64
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	6	0.64
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	16	0.64
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	19	0.64
(1,822)	1:24:A:PHE:HD1	2:166:B:LEU:H	1	0.64
(1,822)	1:24:A:PHE:HD2	2:166:B:LEU:H	7	0.64
(1,674)	2:232:B:ILE:HG23	2:238:B:ASN:H	2	0.64
(1,674)	2:232:B:ILE:HG21	2:238:B:ASN:H	19	0.64
(1,393)	1:24:A:PHE:HD2	2:170:B:VAL:H	11	0.64
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	9	0.64
(1,180)	1:10:A:ILE:HG22	1:29:A:ARG:H	8	0.64
(1,180)	1:26:A:ILE:HG22	1:29:A:ARG:H	14	0.64
(1,6176)	2:230:B:CYS:HB2	2:194:B:TYR:HE1	4	0.63
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD2	13	0.63
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG21	11	0.63
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG21	20	0.63
(1,5820)	2:183:B:LEU:HD13	2:218:B:THR:HB	12	0.63
(1,5640)	2:183:B:LEU:HG	2:218:B:THR:HB	6	0.63
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG21	8	0.63
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG22	8	0.63
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG23	8	0.63
(1,5610)	2:205:B:ARG:HD2	2:203:B:ILE:HG21	18	0.63
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB2	19	0.63
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB1	10	0.63
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB3	15	0.63
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG22	18	0.63
(1,5451)	1:20:A:SER:H	1:17:A:VAL:HG22	15	0.63
(1,5362)	1:23:A:GLU:HB2	1:18:A:LEU:HD12	12	0.63
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB3	6	0.63
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB1	12	0.63
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB2	17	0.63
(1,5052)	2:167:B:VAL:HG11	2:170:B:VAL:HG12	5	0.63
(1,4989)	2:167:B:VAL:HB	2:164:B:LEU:HD21	12	0.63
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG21	2	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG22	6	0.63
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG23	9	0.63
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD12	10	0.63
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD13	5	0.63
(1,4679)	2:232:B:ILE:HG23	2:152:B:LEU:HD21	5	0.63
(1,4302)	1:19:A:THR:H	1:25:A:LEU:HD12	4	0.63
(1,4262)	1:6:A:ILE:HG22	1:37:A:GLN:HB3	10	0.63
(1,4195)	2:207:B:GLU:HA	2:210:B:LYS:HD3	5	0.63
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	10	0.63
(1,3473)	1:3:A:ARG:HG2	1:2:A:ASN:HB3	10	0.63
(1,3246)	1:13:A:MET:HB3	1:29:A:ARG:HD3	15	0.63
(1,3089)	2:187:B:LEU:HD11	2:188:B:ALA:HA	4	0.63
(1,2940)	1:7:A:ILE:HG23	1:9:A:GLU:HA	12	0.63
(1,2925)	2:188:B:ALA:HB1	2:184:B:ALA:HA	6	0.63
(1,2925)	2:188:B:ALA:HB2	2:184:B:ALA:HA	8	0.63
(1,2302)	2:185:B:LYS:HB2	2:181:B:ILE:HD11	3	0.63
(1,2302)	2:185:B:LYS:HB2	2:181:B:ILE:HD11	6	0.63
(1,2257)	2:151:B:GLU:HB2	2:149:B:ILE:HA	13	0.63
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD11	1	0.63
(1,2146)	2:163:B:PHE:HE2	2:232:B:ILE:HD11	7	0.63
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD13	13	0.63
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD13	10	0.63
(1,2051)	2:205:B:ARG:HB3	2:209:B:LYS:H	14	0.63
(1,2051)	2:205:B:ARG:HB3	2:209:B:LYS:H	15	0.63
(1,2051)	2:205:B:ARG:HB3	2:209:B:LYS:H	18	0.63
(1,1912)	2:161:B:ILE:HD13	2:160:B:GLY:H	2	0.63
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	20	0.63
(1,1540)	2:232:B:ILE:HG23	2:235:B:SER:H	10	0.63
(1,1529)	2:181:B:ILE:HD11	1:21:A:GLU:H	17	0.63
(1,1528)	2:244:B:LEU:HD21	1:21:A:GLU:H	12	0.63
(1,1458)	2:211:B:LYS:HD3	2:212:B:ALA:H	20	0.63
(1,1299)	1:41:A:PHE:HZ	1:21:A:GLU:H	4	0.63
(1,1176)	1:35:A:VAL:HG13	2:148:B:ASP:H	10	0.63
(1,1142)	2:152:B:LEU:HD13	2:151:B:GLU:H	10	0.63
(1,1126)	1:16:A:VAL:HG23	2:163:B:PHE:H	7	0.63
(1,1126)	1:16:A:VAL:HG21	2:163:B:PHE:H	20	0.63
(1,971)	2:210:B:LYS:HE2	2:211:B:LYS:H	1	0.63
(1,674)	2:232:B:ILE:HG21	2:238:B:ASN:H	20	0.63
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	2	0.63
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	4	0.63
(1,180)	1:10:A:ILE:HG21	1:29:A:ARG:H	2	0.63
(1,127)	1:28:A:ARG:HD3	1:29:A:ARG:H	5	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6042)	2:161:B:ILE:HD12	2:159:B:PHE:HD2	18	0.62
(1,5941)	1:8:A:TYR:H	1:39:A:VAL:HG11	9	0.62
(1,5940)	1:39:A:VAL:HG11	1:17:A:VAL:HG23	12	0.62
(1,5775)	1:4:A:LEU:HD11	1:3:A:ARG:HD2	6	0.62
(1,5721)	2:220:B:GLY:H	2:203:B:ILE:HD11	4	0.62
(1,5701)	2:227:B:ILE:HG22	2:161:B:ILE:HG23	19	0.62
(1,5640)	2:208:B:LEU:HG	2:218:B:THR:HB	9	0.62
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG21	12	0.62
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG22	12	0.62
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG23	12	0.62
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG21	12	0.62
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE3	18	0.62
(1,5361)	2:244:B:LEU:HG	1:18:A:LEU:HD11	14	0.62
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG11	4	0.62
(1,5315)	2:179:B:LEU:HB2	2:218:B:THR:HG21	1	0.62
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD11	14	0.62
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD11	15	0.62
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD12	19	0.62
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD21	16	0.62
(1,4808)	2:214:B:VAL:H	2:213:B:LYS:HG3	17	0.62
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD13	8	0.62
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD21	9	0.62
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD22	20	0.62
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD13	4	0.62
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD22	9	0.62
(1,4560)	1:20:A:SER:HB3	1:3:A:ARG:HG2	4	0.62
(1,4262)	1:6:A:ILE:HG22	1:37:A:GLN:HB3	16	0.62
(1,3774)	1:35:A:VAL:HG23	1:9:A:GLU:HG2	16	0.62
(1,3743)	2:149:B:ILE:HG12	2:150:B:GLU:HG2	12	0.62
(1,3716)	1:3:A:ARG:HD2	1:21:A:GLU:HG3	16	0.62
(1,3713)	2:154:B:LYS:HE3	2:151:B:GLU:HG3	10	0.62
(1,3710)	2:146:B:ARG:HD2	2:150:B:GLU:HG2	17	0.62
(1,3473)	1:3:A:ARG:HG2	1:2:A:ASN:HB3	6	0.62
(1,3457)	2:174:B:ARG:HG3	2:175:B:ASP:HB2	3	0.62
(1,3457)	2:179:B:LEU:HB3	2:175:B:ASP:HB3	18	0.62
(1,3283)	1:4:A:LEU:HD11	1:3:A:ARG:HD2	6	0.62
(1,3278)	2:219:B:ILE:HG23	2:205:B:ARG:HD3	14	0.62
(1,2979)	2:227:B:ILE:HG22	2:231:B:LEU:HA	19	0.62
(1,2925)	2:188:B:ALA:HB2	2:184:B:ALA:HA	10	0.62
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	16	0.62
(1,2196)	1:18:A:LEU:HA	1:6:A:ILE:HD12	17	0.62
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD11	18	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD13	4	0.62
(1,2111)	2:182:B:ARG:H	2:181:B:ILE:HD11	19	0.62
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD11	19	0.62
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD13	6	0.62
(1,2024)	2:218:B:THR:HG23	2:180:B:CYS:H	12	0.62
(1,2002)	2:155:B:LYS:HD3	2:158:B:GLU:H	11	0.62
(1,1912)	2:161:B:ILE:HD11	2:160:B:GLY:H	4	0.62
(1,1837)	1:4:A:LEU:HD13	1:20:A:SER:H	4	0.62
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	3	0.62
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	6	0.62
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	18	0.62
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	13	0.62
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	20	0.62
(1,1529)	1:18:A:LEU:HB2	1:21:A:GLU:H	19	0.62
(1,1513)	2:227:B:ILE:HD12	2:224:B:LYS:H	7	0.62
(1,1463)	2:191:B:GLU:HB2	2:195:B:ASN:H	2	0.62
(1,1295)	2:194:B:TYR:HE1	2:195:B:ASN:H	19	0.62
(1,1167)	1:25:A:LEU:HB2	1:46:A:ILE:H	3	0.62
(1,1151)	2:161:B:ILE:HD11	2:228:B:ALA:H	19	0.62
(1,1148)	2:208:B:LEU:HD12	2:187:B:LEU:H	11	0.62
(1,1141)	2:214:B:VAL:HG23	2:209:B:LYS:H	9	0.62
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	3	0.62
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	7	0.62
(1,971)	2:210:B:LYS:HE2	2:211:B:LYS:H	12	0.62
(1,822)	1:24:A:PHE:HD1	2:166:B:LEU:H	3	0.62
(1,633)	1:10:A:ILE:HD12	1:35:A:VAL:H	17	0.62
(1,180)	1:10:A:ILE:HG23	1:29:A:ARG:H	15	0.62
(1,127)	1:28:A:ARG:HD3	1:29:A:ARG:H	7	0.62
(1,6184)	2:172:B:LYS:HB2	2:173:B:HIS:HD2	17	0.61
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD1	15	0.61
(1,5891)	2:224:B:LYS:H	2:161:B:ILE:HD12	2	0.61
(1,5891)	2:224:B:LYS:H	2:161:B:ILE:HD13	4	0.61
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG21	1	0.61
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG23	5	0.61
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG23	8	0.61
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG22	18	0.61
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB1	20	0.61
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB1	15	0.61
(1,5389)	1:17:A:VAL:HG13	1:39:A:VAL:HG22	19	0.61
(1,5384)	2:156:B:LEU:HD22	2:162:B:THR:HG23	12	0.61
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG23	5	0.61
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG23	6	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG12	14	0.61
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB1	14	0.61
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG11	6	0.61
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG12	2	0.61
(1,5243)	1:10:A:ILE:HA	1:17:A:VAL:HG11	17	0.61
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG22	18	0.61
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD12	10	0.61
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD13	13	0.61
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG23	16	0.61
(1,4962)	2:226:B:ILE:HA	2:229:B:LEU:HD11	8	0.61
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD11	20	0.61
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD23	4	0.61
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD13	4	0.61
(1,4728)	1:20:A:SER:H	1:4:A:LEU:HD23	8	0.61
(1,4679)	2:232:B:ILE:HG22	2:152:B:LEU:HD21	11	0.61
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD12	6	0.61
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD23	20	0.61
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD12	14	0.61
(1,4262)	1:6:A:ILE:HG21	1:37:A:GLN:HB3	3	0.61
(1,4021)	2:156:B:LEU:HD13	2:157:B:GLN:HG2	19	0.61
(1,3743)	2:149:B:ILE:HG12	2:150:B:GLU:HG2	19	0.61
(1,3725)	2:147:B:GLU:HG3	2:236:B:ASN:HB2	4	0.61
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	7	0.61
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD2	1	0.61
(1,3089)	2:187:B:LEU:HD12	2:188:B:ALA:HA	14	0.61
(1,2925)	2:188:B:ALA:HB1	2:184:B:ALA:HA	14	0.61
(1,2721)	1:4:A:LEU:HD21	1:20:A:SER:HA	5	0.61
(1,2369)	1:17:A:VAL:HG12	1:35:A:VAL:HA	17	0.61
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD12	7	0.61
(1,2087)	1:38:A:GLN:H	2:143:B:ILE:HD11	3	0.61
(1,2048)	2:187:B:LEU:HD12	2:197:B:LEU:H	9	0.61
(1,2047)	2:203:B:ILE:HG23	2:208:B:LEU:H	5	0.61
(1,2047)	2:203:B:ILE:HG21	2:208:B:LEU:H	18	0.61
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	5	0.61
(1,1837)	1:4:A:LEU:HD11	1:20:A:SER:H	2	0.61
(1,1837)	1:4:A:LEU:HD13	1:20:A:SER:H	12	0.61
(1,1834)	2:199:B:LYS:HB2	2:202:B:ASN:H	9	0.61
(1,1739)	2:219:B:ILE:HG23	2:222:B:ASN:H	17	0.61
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	14	0.61
(1,1523)	2:168:B:LEU:HD22	2:168:B:LEU:H	4	0.61
(1,1299)	1:41:A:PHE:HZ	1:21:A:GLU:H	3	0.61
(1,1176)	1:35:A:VAL:HG11	2:148:B:ASP:H	5	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1167)	1:25:A:LEU:HB2	1:46:A:ILE:H	18	0.61
(1,1151)	2:161:B:ILE:HD12	2:228:B:ALA:H	14	0.61
(1,1142)	2:152:B:LEU:HD13	2:151:B:GLU:H	16	0.61
(1,1142)	2:152:B:LEU:HD12	2:151:B:GLU:H	17	0.61
(1,1132)	1:16:A:VAL:HG22	2:164:B:LEU:H	19	0.61
(1,1126)	1:16:A:VAL:HG22	2:163:B:PHE:H	10	0.61
(1,1125)	2:162:B:THR:HG21	2:163:B:PHE:H	19	0.61
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	2	0.61
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	4	0.61
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	13	0.61
(1,946)	2:182:B:ARG:HD3	2:181:B:ILE:H	10	0.61
(1,674)	2:232:B:ILE:HG22	2:238:B:ASN:H	18	0.61
(1,631)	2:187:B:LEU:HD12	2:197:B:LEU:H	9	0.61
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	20	0.61
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD2	1	0.6
(1,5891)	2:160:B:GLY:H	2:161:B:ILE:HD13	6	0.6
(1,5891)	2:160:B:GLY:H	2:161:B:ILE:HD13	11	0.6
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG23	6	0.6
(1,5701)	2:227:B:ILE:HG21	2:161:B:ILE:HG21	7	0.6
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE2	7	0.6
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG21	5	0.6
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG22	5	0.6
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG23	5	0.6
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG22	20	0.6
(1,5547)	2:147:B:GLU:HA	2:145:B:ALA:HB3	11	0.6
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB2	19	0.6
(1,5542)	2:197:B:LEU:HA	2:198:B:MET:HE2	12	0.6
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG22	5	0.6
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG13	17	0.6
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG12	18	0.6
(1,4993)	1:14:A:LYS:HE2	2:164:B:LEU:HD13	7	0.6
(1,4993)	1:14:A:LYS:HE2	2:164:B:LEU:HD11	12	0.6
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG22	7	0.6
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG22	10	0.6
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG22	12	0.6
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG21	17	0.6
(1,4971)	2:157:B:GLN:HG2	2:154:B:LYS:HG3	16	0.6
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD11	13	0.6
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG21	1	0.6
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD22	11	0.6
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD21	9	0.6
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD22	16	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG22	7	0.6
(1,4818)	2:163:B:PHE:HE1	2:152:B:LEU:HD12	10	0.6
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD12	2	0.6
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD11	13	0.6
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD12	18	0.6
(1,4679)	2:232:B:ILE:HG22	2:152:B:LEU:HD21	14	0.6
(1,4679)	2:232:B:ILE:HG21	2:152:B:LEU:HD21	20	0.6
(1,4629)	2:226:B:ILE:HG13	2:229:B:LEU:HD22	17	0.6
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD21	2	0.6
(1,4401)	2:155:B:LYS:H	2:156:B:LEU:HD22	4	0.6
(1,4262)	1:6:A:ILE:HG23	1:37:A:GLN:HB3	2	0.6
(1,4262)	1:6:A:ILE:HG21	1:37:A:GLN:HB3	12	0.6
(1,4261)	1:34:A:LYS:HG3	1:37:A:GLN:HB2	7	0.6
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	7	0.6
(1,3580)	2:151:B:GLU:H	2:151:B:GLU:HG3	14	0.6
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG2	7	0.6
(1,3089)	2:187:B:LEU:HD12	2:188:B:ALA:HA	3	0.6
(1,3089)	2:187:B:LEU:HD12	2:188:B:ALA:HA	16	0.6
(1,2728)	2:231:B:LEU:HD21	2:155:B:LYS:HA	3	0.6
(1,2611)	2:210:B:LYS:HE3	2:210:B:LYS:HA	17	0.6
(1,2309)	2:223:B:ARG:HG3	2:203:B:ILE:HD12	11	0.6
(1,2309)	2:223:B:ARG:HG3	2:203:B:ILE:HD11	12	0.6
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD12	6	0.6
(1,2127)	1:45:A:ASP:H	1:27:A:ILE:HD11	14	0.6
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD12	11	0.6
(1,2051)	2:205:B:ARG:HB3	2:209:B:LYS:H	5	0.6
(1,2051)	2:210:B:LYS:HB3	2:209:B:LYS:H	10	0.6
(1,2048)	2:187:B:LEU:HD13	2:197:B:LEU:H	5	0.6
(1,2047)	2:203:B:ILE:HG21	2:208:B:LEU:H	14	0.6
(1,2031)	1:39:A:VAL:HG21	1:5:A:GLY:H	10	0.6
(1,1912)	2:161:B:ILE:HD13	2:160:B:GLY:H	3	0.6
(1,1912)	2:161:B:ILE:HD13	2:160:B:GLY:H	6	0.6
(1,1912)	2:161:B:ILE:HD13	2:160:B:GLY:H	11	0.6
(1,1837)	1:4:A:LEU:HD13	1:20:A:SER:H	11	0.6
(1,1741)	2:170:B:VAL:HG23	1:23:A:GLU:H	17	0.6
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	4	0.6
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	6	0.6
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	16	0.6
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	17	0.6
(1,1299)	1:41:A:PHE:HZ	1:21:A:GLU:H	1	0.6
(1,1148)	2:208:B:LEU:HD13	2:187:B:LEU:H	2	0.6
(1,1142)	1:35:A:VAL:HG12	2:151:B:GLU:H	5	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1142)	2:152:B:LEU:HD11	2:151:B:GLU:H	8	0.6
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	16	0.6
(1,971)	2:210:B:LYS:HE3	2:211:B:LYS:H	16	0.6
(1,955)	2:154:B:LYS:HE3	2:154:B:LYS:H	11	0.6
(1,822)	1:24:A:PHE:HD2	2:166:B:LEU:H	2	0.6
(1,822)	1:24:A:PHE:HD2	2:166:B:LEU:H	18	0.6
(1,674)	2:232:B:ILE:HG23	2:238:B:ASN:H	6	0.6
(1,662)	1:7:A:ILE:HG22	1:16:A:VAL:H	4	0.6
(1,662)	1:7:A:ILE:HG21	1:16:A:VAL:H	15	0.6
(1,631)	2:187:B:LEU:HD13	2:197:B:LEU:H	5	0.6
(1,619)	2:167:B:VAL:HG23	1:25:A:LEU:H	14	0.6
(1,616)	1:26:A:ILE:HD11	1:26:A:ILE:H	17	0.6
(1,271)	1:49:A:VAL:HG11	1:48:A:ASN:H	5	0.6
(1,271)	1:49:A:VAL:HG12	1:48:A:ASN:H	5	0.6
(1,271)	1:49:A:VAL:HG13	1:48:A:ASN:H	5	0.6
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	12	0.6
(1,180)	1:10:A:ILE:HG23	1:29:A:ARG:H	7	0.6
(1,180)	1:10:A:ILE:HG23	1:29:A:ARG:H	10	0.6
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE2	16	0.59
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD2	17	0.59
(1,5914)	1:18:A:LEU:HD23	1:7:A:ILE:HA	6	0.59
(1,5914)	1:18:A:LEU:HD21	2:240:B:SER:HB3	12	0.59
(1,5891)	2:224:B:LYS:H	2:161:B:ILE:HD13	5	0.59
(1,5891)	2:224:B:LYS:H	2:161:B:ILE:HD11	20	0.59
(1,5852)	2:225:B:TYR:HE2	2:170:B:VAL:HG12	10	0.59
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG23	12	0.59
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG22	14	0.59
(1,5820)	2:219:B:ILE:HG12	2:218:B:THR:HB	17	0.59
(1,5746)	2:189:B:GLU:HB2	2:185:B:LYS:HA	20	0.59
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG21	3	0.59
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG22	3	0.59
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG23	3	0.59
(1,5428)	2:212:B:ALA:H	2:193:B:MET:HE2	9	0.59
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG12	3	0.59
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG22	3	0.59
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG23	10	0.59
(1,5191)	1:24:A:PHE:HE2	2:244:B:LEU:HD22	2	0.59
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD13	9	0.59
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD12	12	0.59
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD11	18	0.59
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG23	3	0.59
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG21	5	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD21	20	0.59
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD23	4	0.59
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD12	6	0.59
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD11	15	0.59
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD12	20	0.59
(1,4679)	2:232:B:ILE:HG23	2:152:B:LEU:HD23	9	0.59
(1,4679)	2:232:B:ILE:HG21	2:152:B:LEU:HD22	19	0.59
(1,4262)	1:6:A:ILE:HG23	1:37:A:GLN:HB3	13	0.59
(1,4262)	1:6:A:ILE:HG22	1:37:A:GLN:HB3	20	0.59
(1,4220)	2:146:B:ARG:HD2	1:34:A:LYS:HD3	16	0.59
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	13	0.59
(1,3743)	2:149:B:ILE:HG12	2:147:B:GLU:HG2	1	0.59
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	18	0.59
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	9	0.59
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	11	0.59
(1,2621)	2:211:B:LYS:HE2	2:211:B:LYS:HA	9	0.59
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD11	7	0.59
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD11	5	0.59
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD13	2	0.59
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD11	14	0.59
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD11	1	0.59
(1,2094)	2:150:B:GLU:H	2:149:B:ILE:HD13	7	0.59
(1,2051)	2:205:B:ARG:HB3	2:209:B:LYS:H	3	0.59
(1,2047)	2:203:B:ILE:HG21	2:208:B:LEU:H	13	0.59
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	14	0.59
(1,1912)	2:161:B:ILE:HD11	2:160:B:GLY:H	12	0.59
(1,1912)	2:161:B:ILE:HD12	2:160:B:GLY:H	20	0.59
(1,1837)	1:4:A:LEU:HD11	1:20:A:SER:H	14	0.59
(1,1834)	2:199:B:LYS:HB2	2:202:B:ASN:H	2	0.59
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	3	0.59
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	7	0.59
(1,1705)	2:219:B:ILE:HG13	2:222:B:ASN:HD21	16	0.59
(1,1523)	2:168:B:LEU:HD23	2:168:B:LEU:H	3	0.59
(1,1155)	2:203:B:ILE:HD11	2:225:B:TYR:H	16	0.59
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	11	0.59
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	13	0.59
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	17	0.59
(1,1132)	1:16:A:VAL:HG22	2:164:B:LEU:H	5	0.59
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	2	0.59
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	8	0.59
(1,679)	2:231:B:LEU:HD21	2:158:B:GLU:H	6	0.59
(1,674)	2:232:B:ILE:HG23	2:238:B:ASN:H	12	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,674)	2:232:B:ILE:HG22	2:238:B:ASN:H	14	0.59
(1,662)	1:7:A:ILE:HG21	1:16:A:VAL:H	6	0.59
(1,633)	1:7:A:ILE:HG21	1:35:A:VAL:H	2	0.59
(1,633)	1:7:A:ILE:HG22	1:35:A:VAL:H	18	0.59
(1,567)	2:196:B:ALA:HB2	2:193:B:MET:H	20	0.59
(1,180)	1:10:A:ILE:HG21	1:29:A:ARG:H	6	0.59
(1,179)	1:27:A:ILE:HG13	1:29:A:ARG:H	4	0.59
(1,179)	1:15:A:ALA:HB1	1:29:A:ARG:H	17	0.59
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD2	6	0.58
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE2	7	0.58
(1,6109)	2:166:B:LEU:HB2	2:163:B:PHE:HD2	19	0.58
(1,5940)	1:39:A:VAL:HG12	1:17:A:VAL:HG23	5	0.58
(1,5701)	2:227:B:ILE:HG23	2:161:B:ILE:HG22	18	0.58
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE2	10	0.58
(1,5629)	2:150:B:GLU:HG2	2:149:B:ILE:HG21	10	0.58
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB1	4	0.58
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG22	11	0.58
(1,5547)	2:194:B:TYR:HA	2:196:B:ALA:HB2	12	0.58
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG12	11	0.58
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG12	12	0.58
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG12	15	0.58
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD11	5	0.58
(1,4993)	1:14:A:LYS:HE2	2:164:B:LEU:HD12	8	0.58
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG22	20	0.58
(1,4964)	2:159:B:PHE:HB3	2:156:B:LEU:HD11	15	0.58
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD11	8	0.58
(1,4956)	2:246:B:TYR:HB3	2:250:B:LEU:HD13	14	0.58
(1,4922)	2:219:B:ILE:HA	2:183:B:LEU:HD23	3	0.58
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD21	2	0.58
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD22	14	0.58
(1,4818)	2:163:B:PHE:HE2	2:152:B:LEU:HD11	2	0.58
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD13	14	0.58
(1,4560)	1:45:A:ASP:HB2	1:3:A:ARG:HG3	10	0.58
(1,4546)	1:43:A:ASN:HB3	1:44:A:GLU:HB2	1	0.58
(1,4316)	2:180:B:CYS:H	2:177:B:ARG:HG2	1	0.58
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD11	13	0.58
(1,3877)	2:163:B:PHE:HE1	2:153:B:LYS:HB3	9	0.58
(1,3743)	2:149:B:ILE:HG12	2:147:B:GLU:HG2	3	0.58
(1,3743)	2:149:B:ILE:HG12	2:147:B:GLU:HG2	10	0.58
(1,3743)	2:149:B:ILE:HG12	2:147:B:GLU:HG2	17	0.58
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	8	0.58
(1,3216)	1:50:A:ARG:HA	1:50:A:ARG:HD2	6	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3102)	2:207:B:GLU:HG3	2:204:B:PRO:HD2	4	0.58
(1,3089)	2:187:B:LEU:HD12	2:188:B:ALA:HA	5	0.58
(1,3089)	2:187:B:LEU:HD11	2:188:B:ALA:HA	13	0.58
(1,2713)	2:153:B:LYS:HG3	2:150:B:GLU:HA	15	0.58
(1,2611)	2:210:B:LYS:HE3	2:210:B:LYS:HA	16	0.58
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	13	0.58
(1,2309)	2:208:B:LEU:HB2	2:203:B:ILE:HD12	9	0.58
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	1	0.58
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	17	0.58
(1,1741)	2:170:B:VAL:HG22	1:23:A:GLU:H	15	0.58
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	12	0.58
(1,1529)	2:181:B:ILE:HD11	1:21:A:GLU:H	11	0.58
(1,1458)	2:211:B:LYS:HD3	2:212:B:ALA:H	11	0.58
(1,1413)	1:31:A:LYS:HE3	1:33:A:MET:H	10	0.58
(1,1413)	1:20:A:SER:HB3	1:3:A:ARG:HE	16	0.58
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	2	0.58
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	8	0.58
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	9	0.58
(1,1125)	2:162:B:THR:HG23	2:163:B:PHE:H	7	0.58
(1,1125)	2:162:B:THR:HG23	2:163:B:PHE:H	11	0.58
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	3	0.58
(1,971)	2:210:B:LYS:HE3	2:211:B:LYS:H	10	0.58
(1,971)	2:210:B:LYS:HE2	2:211:B:LYS:H	14	0.58
(1,822)	1:24:A:PHE:HD2	2:166:B:LEU:H	15	0.58
(1,633)	1:7:A:ILE:HG23	1:35:A:VAL:H	9	0.58
(1,619)	1:25:A:LEU:HD22	1:25:A:LEU:H	8	0.58
(1,567)	2:196:B:ALA:HB3	2:193:B:MET:H	5	0.58
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	18	0.58
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	17	0.58
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	16	0.58
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD2	1	0.57
(1,6184)	2:172:B:LYS:HB2	2:173:B:HIS:HD2	1	0.57
(1,5891)	2:160:B:GLY:H	2:161:B:ILE:HD13	8	0.57
(1,5891)	2:224:B:LYS:H	2:161:B:ILE:HD13	12	0.57
(1,5852)	2:225:B:TYR:HE2	2:170:B:VAL:HG13	15	0.57
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG21	2	0.57
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG22	2	0.57
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG23	2	0.57
(1,5621)	2:185:B:LYS:HE3	2:181:B:ILE:HG22	4	0.57
(1,5610)	2:205:B:ARG:HD3	2:203:B:ILE:HG21	13	0.57
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB2	16	0.57
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG21	20	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5428)	2:212:B:ALA:H	2:193:B:MET:HE2	10	0.57
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG23	1	0.57
(1,5308)	2:180:B:CYS:HB2	2:184:B:ALA:HB2	5	0.57
(1,5052)	2:167:B:VAL:HG13	2:170:B:VAL:HG13	4	0.57
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD12	2	0.57
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD13	3	0.57
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD13	16	0.57
(1,4993)	1:14:A:LYS:HE2	2:164:B:LEU:HD12	16	0.57
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG23	18	0.57
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD23	13	0.57
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG21	20	0.57
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD21	20	0.57
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD13	3	0.57
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD12	7	0.57
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD13	18	0.57
(1,4643)	2:167:B:VAL:HG11	2:168:B:LEU:HG	4	0.57
(1,4643)	2:167:B:VAL:HG12	2:168:B:LEU:HG	16	0.57
(1,4560)	1:20:A:SER:HB3	1:3:A:ARG:HG2	7	0.57
(1,4316)	2:208:B:LEU:H	2:205:B:ARG:HG3	4	0.57
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG2	10	0.57
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG2	12	0.57
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	4	0.57
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	17	0.57
(1,3089)	2:187:B:LEU:HD11	2:188:B:ALA:HA	2	0.57
(1,2979)	2:227:B:ILE:HG23	2:231:B:LEU:HA	12	0.57
(1,2940)	1:7:A:ILE:HG22	1:9:A:GLU:HA	1	0.57
(1,2940)	1:7:A:ILE:HG23	1:9:A:GLU:HA	19	0.57
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD13	2	0.57
(1,2146)	2:163:B:PHE:HE2	2:232:B:ILE:HD13	2	0.57
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	9	0.57
(1,1912)	2:161:B:ILE:HD13	2:160:B:GLY:H	8	0.57
(1,1906)	2:209:B:LYS:HG3	2:214:B:VAL:H	10	0.57
(1,1836)	1:19:A:THR:HG21	1:20:A:SER:H	1	0.57
(1,1721)	2:226:B:ILE:HG12	2:226:B:ILE:H	19	0.57
(1,1648)	2:225:B:TYR:HB3	2:229:B:LEU:H	7	0.57
(1,1643)	2:195:B:ASN:HB3	2:192:B:GLN:H	4	0.57
(1,1526)	1:46:A:ILE:HG13	1:3:A:ARG:HE	3	0.57
(1,1503)	2:214:B:VAL:HG12	2:212:B:ALA:H	2	0.57
(1,1458)	2:211:B:LYS:HD2	2:212:B:ALA:H	18	0.57
(1,1142)	2:152:B:LEU:HD13	2:151:B:GLU:H	4	0.57
(1,1142)	2:152:B:LEU:HD11	2:151:B:GLU:H	11	0.57
(1,1142)	2:152:B:LEU:HD12	2:151:B:GLU:H	20	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1126)	1:16:A:VAL:HG22	2:163:B:PHE:H	19	0.57
(1,1125)	2:162:B:THR:HG21	2:163:B:PHE:H	2	0.57
(1,1125)	2:162:B:THR:HG23	2:163:B:PHE:H	15	0.57
(1,1125)	2:162:B:THR:HG23	2:163:B:PHE:H	20	0.57
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	1	0.57
(1,679)	2:161:B:ILE:HG13	2:158:B:GLU:H	16	0.57
(1,546)	2:180:B:CYS:HB2	2:179:B:LEU:H	20	0.57
(1,393)	1:24:A:PHE:HD2	2:170:B:VAL:H	8	0.57
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	2	0.57
(1,180)	1:26:A:ILE:HG23	1:29:A:ARG:H	1	0.57
(1,6042)	2:161:B:ILE:HD13	2:159:B:PHE:HD2	17	0.56
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG21	16	0.56
(1,5820)	2:219:B:ILE:HG12	2:218:B:THR:HB	1	0.56
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE3	3	0.56
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE2	6	0.56
(1,5633)	2:222:B:ASN:HB3	2:226:B:ILE:HG21	1	0.56
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB3	2	0.56
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB3	9	0.56
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG21	5	0.56
(1,5500)	2:225:B:TYR:HD1	2:226:B:ILE:HG22	17	0.56
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG23	17	0.56
(1,5428)	2:212:B:ALA:H	2:193:B:MET:HE1	12	0.56
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG12	20	0.56
(1,5325)	1:14:A:LYS:HE2	1:16:A:VAL:HG21	17	0.56
(1,5191)	1:24:A:PHE:HE1	2:244:B:LEU:HD21	20	0.56
(1,4971)	2:157:B:GLN:HG2	2:154:B:LYS:HG3	14	0.56
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD21	12	0.56
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD13	16	0.56
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD12	20	0.56
(1,4679)	2:232:B:ILE:HG23	2:152:B:LEU:HD22	12	0.56
(1,4316)	2:208:B:LEU:H	2:205:B:ARG:HG3	12	0.56
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD11	3	0.56
(1,3774)	1:35:A:VAL:HG21	1:9:A:GLU:HG2	7	0.56
(1,3743)	2:149:B:ILE:HG12	2:147:B:GLU:HG2	5	0.56
(1,3739)	2:196:B:ALA:HB3	2:195:B:ASN:HB2	16	0.56
(1,3725)	2:151:B:GLU:HB2	2:236:B:ASN:HB2	7	0.56
(1,3713)	2:154:B:LYS:HE3	2:151:B:GLU:HG2	6	0.56
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	11	0.56
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG3	19	0.56
(1,3275)	2:203:B:ILE:HG13	2:223:B:ARG:HD2	2	0.56
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	20	0.56
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	3	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2979)	1:18:A:LEU:HD11	2:244:B:LEU:HA	20	0.56
(1,2940)	1:7:A:ILE:HG21	1:9:A:GLU:HA	18	0.56
(1,2925)	2:188:B:ALA:HB3	2:184:B:ALA:HA	16	0.56
(1,2728)	2:231:B:LEU:HD23	2:155:B:LYS:HA	14	0.56
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	5	0.56
(1,2369)	2:149:B:ILE:HD12	1:35:A:VAL:HA	8	0.56
(1,2300)	2:177:B:ARG:HG2	2:181:B:ILE:HD12	19	0.56
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD13	3	0.56
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	9	0.56
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD12	11	0.56
(1,2092)	1:35:A:VAL:H	1:7:A:ILE:HD12	18	0.56
(1,2048)	2:187:B:LEU:HD12	2:197:B:LEU:H	2	0.56
(1,2048)	2:187:B:LEU:HD11	2:197:B:LEU:H	6	0.56
(1,2048)	2:187:B:LEU:HD11	2:197:B:LEU:H	10	0.56
(1,2048)	2:187:B:LEU:HD12	2:197:B:LEU:H	13	0.56
(1,1961)	2:205:B:ARG:HD2	2:220:B:GLY:H	9	0.56
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	15	0.56
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	9	0.56
(1,1741)	2:170:B:VAL:HG21	1:23:A:GLU:H	4	0.56
(1,1741)	2:170:B:VAL:HG22	1:23:A:GLU:H	16	0.56
(1,1643)	2:195:B:ASN:HB3	2:192:B:GLN:H	14	0.56
(1,1643)	2:195:B:ASN:HB3	2:192:B:GLN:H	16	0.56
(1,1526)	1:7:A:ILE:HD12	1:33:A:MET:H	7	0.56
(1,1489)	1:29:A:ARG:HG3	1:33:A:MET:H	5	0.56
(1,1295)	2:194:B:TYR:HE2	2:195:B:ASN:H	6	0.56
(1,1295)	2:194:B:TYR:HE2	2:195:B:ASN:H	20	0.56
(1,1201)	2:231:B:LEU:HD22	2:228:B:ALA:H	10	0.56
(1,1151)	2:161:B:ILE:HD12	2:228:B:ALA:H	9	0.56
(1,1151)	2:161:B:ILE:HD12	2:228:B:ALA:H	15	0.56
(1,1138)	2:227:B:ILE:HD11	2:227:B:ILE:H	1	0.56
(1,1138)	2:227:B:ILE:HD11	2:227:B:ILE:H	10	0.56
(1,1125)	2:162:B:THR:HG21	2:163:B:PHE:H	14	0.56
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	12	0.56
(1,957)	2:195:B:ASN:HB3	2:199:B:LYS:H	8	0.56
(1,955)	2:154:B:LYS:HE2	2:154:B:LYS:H	16	0.56
(1,955)	2:154:B:LYS:HE2	2:154:B:LYS:H	18	0.56
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	19	0.56
(1,674)	2:232:B:ILE:HG21	2:238:B:ASN:H	16	0.56
(1,633)	1:10:A:ILE:HD12	1:35:A:VAL:H	3	0.56
(1,631)	2:187:B:LEU:HD12	2:197:B:LEU:H	2	0.56
(1,631)	2:187:B:LEU:HD11	2:197:B:LEU:H	6	0.56
(1,631)	2:187:B:LEU:HD11	2:197:B:LEU:H	10	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,631)	2:187:B:LEU:HD12	2:197:B:LEU:H	13	0.56
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	10	0.56
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD1	9	0.55
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD1	12	0.55
(1,6236)	1:6:A:ILE:HG21	1:8:A:TYR:HE1	10	0.55
(1,5940)	1:39:A:VAL:HG13	1:17:A:VAL:HG21	6	0.55
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE2	13	0.55
(1,5633)	2:180:B:CYS:HB2	2:226:B:ILE:HG21	14	0.55
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG21	20	0.55
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG22	20	0.55
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG23	20	0.55
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB3	2	0.55
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG12	8	0.55
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG12	16	0.55
(1,5325)	2:167:B:VAL:HB	1:16:A:VAL:HG21	10	0.55
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG23	12	0.55
(1,5191)	1:24:A:PHE:HE1	2:244:B:LEU:HD22	19	0.55
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD12	6	0.55
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG23	11	0.55
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD21	1	0.55
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD21	15	0.55
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD22	18	0.55
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD11	12	0.55
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD21	6	0.55
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD12	3	0.55
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD11	14	0.55
(1,4592)	2:180:B:CYS:HB2	2:179:B:LEU:HD13	15	0.55
(1,4560)	1:45:A:ASP:HB2	1:3:A:ARG:HG3	6	0.55
(1,4560)	1:20:A:SER:HB3	1:3:A:ARG:HG2	11	0.55
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD22	12	0.55
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD23	14	0.55
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD11	9	0.55
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD3	11	0.55
(1,4120)	2:163:B:PHE:HE1	2:153:B:LYS:HD2	19	0.55
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	5	0.55
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	15	0.55
(1,3774)	1:35:A:VAL:HG23	1:9:A:GLU:HG2	8	0.55
(1,3743)	2:149:B:ILE:HG12	2:147:B:GLU:HG2	8	0.55
(1,3743)	2:149:B:ILE:HG12	2:150:B:GLU:HG2	14	0.55
(1,3742)	2:146:B:ARG:HG2	2:150:B:GLU:HG2	19	0.55
(1,3716)	1:3:A:ARG:HD2	1:21:A:GLU:HG3	12	0.55
(1,3710)	2:146:B:ARG:HD2	2:150:B:GLU:HG2	8	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3457)	2:241:B:LYS:HB2	2:238:B:ASN:HB2	11	0.55
(1,3457)	2:179:B:LEU:HB3	2:175:B:ASP:HB3	14	0.55
(1,3275)	2:203:B:ILE:HG13	2:223:B:ARG:HD2	16	0.55
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	6	0.55
(1,3102)	2:207:B:GLU:HG3	2:204:B:PRO:HD2	16	0.55
(1,3089)	2:187:B:LEU:HD12	2:188:B:ALA:HA	1	0.55
(1,3089)	2:187:B:LEU:HD13	2:188:B:ALA:HA	6	0.55
(1,2728)	2:231:B:LEU:HD21	2:155:B:LYS:HA	10	0.55
(1,2611)	2:210:B:LYS:HE2	2:210:B:LYS:HA	20	0.55
(1,2235)	2:205:B:ARG:HD3	2:203:B:ILE:HD13	14	0.55
(1,2048)	2:187:B:LEU:HD11	2:197:B:LEU:H	8	0.55
(1,2047)	2:203:B:ILE:HG22	2:208:B:LEU:H	3	0.55
(1,2047)	2:197:B:LEU:HD21	2:197:B:LEU:H	15	0.55
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	1	0.55
(1,1961)	2:205:B:ARG:HD2	2:220:B:GLY:H	18	0.55
(1,1836)	1:19:A:THR:HG22	1:20:A:SER:H	18	0.55
(1,1674)	2:158:B:GLU:HG2	2:159:B:PHE:H	3	0.55
(1,1543)	1:17:A:VAL:HG12	1:9:A:GLU:H	4	0.55
(1,1526)	1:7:A:ILE:HD12	1:33:A:MET:H	18	0.55
(1,1523)	2:168:B:LEU:HD23	2:168:B:LEU:H	9	0.55
(1,1503)	2:214:B:VAL:HG12	2:212:B:ALA:H	10	0.55
(1,1299)	1:41:A:PHE:HZ	1:21:A:GLU:H	7	0.55
(1,1299)	2:246:B:TYR:HE2	1:21:A:GLU:H	8	0.55
(1,1299)	2:246:B:TYR:HE1	1:21:A:GLU:H	12	0.55
(1,1299)	1:41:A:PHE:HZ	1:21:A:GLU:H	19	0.55
(1,1201)	2:156:B:LEU:HD11	2:228:B:ALA:H	12	0.55
(1,1167)	1:25:A:LEU:HB2	1:46:A:ILE:H	17	0.55
(1,1142)	2:152:B:LEU:HD12	2:151:B:GLU:H	3	0.55
(1,1138)	2:227:B:ILE:HD12	2:227:B:ILE:H	18	0.55
(1,1138)	2:227:B:ILE:HD12	2:227:B:ILE:H	20	0.55
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	14	0.55
(1,1126)	1:16:A:VAL:HG21	2:163:B:PHE:H	11	0.55
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	17	0.55
(1,631)	2:187:B:LEU:HD11	2:197:B:LEU:H	8	0.55
(1,619)	2:167:B:VAL:HG22	1:25:A:LEU:H	4	0.55
(1,619)	2:167:B:VAL:HG21	1:25:A:LEU:H	20	0.55
(1,567)	2:196:B:ALA:HB2	2:193:B:MET:H	12	0.55
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	18	0.55
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	1	0.55
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	17	0.55
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	19	0.55
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	7	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,180)	1:10:A:ILE:HG21	1:29:A:ARG:H	19	0.55
(1,127)	1:28:A:ARG:HD3	1:29:A:ARG:H	9	0.55
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD2	19	0.54
(1,6192)	2:188:B:ALA:HB2	2:194:B:TYR:HE1	4	0.54
(1,6042)	2:161:B:ILE:HD12	2:159:B:PHE:HD1	5	0.54
(1,6042)	2:161:B:ILE:HD13	2:159:B:PHE:HD2	7	0.54
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG21	13	0.54
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG21	17	0.54
(1,5820)	2:183:B:LEU:HD13	2:218:B:THR:HB	4	0.54
(1,5820)	2:219:B:ILE:HG12	2:218:B:THR:HB	16	0.54
(1,5746)	2:189:B:GLU:HB2	2:185:B:LYS:HA	15	0.54
(1,5701)	2:227:B:ILE:HG21	2:161:B:ILE:HG23	4	0.54
(1,5701)	2:227:B:ILE:HG23	2:161:B:ILE:HG23	6	0.54
(1,5701)	2:227:B:ILE:HG23	2:161:B:ILE:HG21	14	0.54
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG21	20	0.54
(1,5621)	2:185:B:LYS:HE3	2:181:B:ILE:HG23	8	0.54
(1,5315)	2:226:B:ILE:HG13	2:218:B:THR:HG22	16	0.54
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG12	14	0.54
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD12	14	0.54
(1,4957)	2:230:B:CYS:HB2	2:208:B:LEU:HD13	5	0.54
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD23	13	0.54
(1,4801)	2:214:B:VAL:H	2:213:B:LYS:HD2	5	0.54
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD13	2	0.54
(1,4770)	2:247:B:TYR:H	2:250:B:LEU:HD22	4	0.54
(1,4679)	2:232:B:ILE:HG23	2:152:B:LEU:HD21	8	0.54
(1,4629)	2:181:B:ILE:HB	2:229:B:LEU:HD22	3	0.54
(1,4576)	2:159:B:PHE:HB2	2:156:B:LEU:HD22	11	0.54
(1,4560)	1:20:A:SER:HB3	1:3:A:ARG:HG2	14	0.54
(1,4316)	2:208:B:LEU:H	2:205:B:ARG:HG3	3	0.54
(1,4265)	2:219:B:ILE:HG22	2:205:B:ARG:HB2	18	0.54
(1,4262)	1:6:A:ILE:HG22	1:37:A:GLN:HB3	5	0.54
(1,3774)	1:35:A:VAL:HG21	1:9:A:GLU:HG2	9	0.54
(1,3739)	2:196:B:ALA:HB2	2:195:B:ASN:HB2	17	0.54
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG3	3	0.54
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG2	4	0.54
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG3	15	0.54
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG3	20	0.54
(1,3102)	2:207:B:GLU:HG3	2:204:B:PRO:HD2	2	0.54
(1,2979)	2:227:B:ILE:HG23	2:231:B:LEU:HA	6	0.54
(1,2979)	1:18:A:LEU:HD11	2:244:B:LEU:HA	8	0.54
(1,2940)	1:7:A:ILE:HG22	1:9:A:GLU:HA	5	0.54
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	4	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	7	0.54
(1,2581)	2:247:B:TYR:HE1	2:174:B:ARG:HA	14	0.54
(1,2235)	2:222:B:ASN:HB2	2:203:B:ILE:HD13	20	0.54
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD12	4	0.54
(1,2048)	2:187:B:LEU:HD11	2:197:B:LEU:H	11	0.54
(1,2048)	2:187:B:LEU:HD11	2:197:B:LEU:H	12	0.54
(1,2047)	2:203:B:ILE:HG22	2:208:B:LEU:H	9	0.54
(1,1965)	2:219:B:ILE:HG22	2:220:B:GLY:H	9	0.54
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	11	0.54
(1,1836)	1:19:A:THR:HG21	1:20:A:SER:H	19	0.54
(1,1721)	2:179:B:LEU:HD13	2:180:B:CYS:H	15	0.54
(1,1718)	1:3:A:ARG:HB3	1:19:A:THR:H	1	0.54
(1,1513)	2:227:B:ILE:HD11	2:224:B:LYS:H	16	0.54
(1,1503)	2:214:B:VAL:HG11	2:212:B:ALA:H	13	0.54
(1,1503)	2:214:B:VAL:HG12	2:212:B:ALA:H	18	0.54
(1,1413)	1:20:A:SER:HB3	1:3:A:ARG:HE	15	0.54
(1,1167)	1:25:A:LEU:HB2	1:46:A:ILE:H	7	0.54
(1,1167)	1:25:A:LEU:HB2	1:46:A:ILE:H	19	0.54
(1,1142)	2:152:B:LEU:HD11	2:151:B:GLU:H	7	0.54
(1,1138)	2:227:B:ILE:HD12	2:227:B:ILE:H	3	0.54
(1,1138)	2:227:B:ILE:HD12	2:227:B:ILE:H	13	0.54
(1,1138)	2:227:B:ILE:HD11	2:227:B:ILE:H	17	0.54
(1,1125)	2:162:B:THR:HG21	2:163:B:PHE:H	6	0.54
(1,1125)	2:162:B:THR:HG22	2:163:B:PHE:H	8	0.54
(1,971)	2:210:B:LYS:HE2	2:211:B:LYS:H	13	0.54
(1,674)	2:232:B:ILE:HG21	2:238:B:ASN:H	13	0.54
(1,674)	2:232:B:ILE:HG21	2:238:B:ASN:H	17	0.54
(1,631)	2:187:B:LEU:HD11	2:197:B:LEU:H	11	0.54
(1,631)	2:187:B:LEU:HD11	2:197:B:LEU:H	12	0.54
(1,619)	2:167:B:VAL:HG23	1:25:A:LEU:H	9	0.54
(1,619)	2:167:B:VAL:HG21	1:25:A:LEU:H	17	0.54
(1,616)	1:26:A:ILE:HD11	1:26:A:ILE:H	2	0.54
(1,616)	1:26:A:ILE:HD11	1:26:A:ILE:H	4	0.54
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	8	0.54
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	4	0.54
(1,180)	1:10:A:ILE:HG23	1:29:A:ARG:H	16	0.54
(1,179)	1:27:A:ILE:HG13	1:29:A:ARG:H	11	0.54
(1,127)	1:28:A:ARG:HD3	1:29:A:ARG:H	16	0.54
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD1	3	0.53
(1,5914)	1:18:A:LEU:HD22	1:7:A:ILE:HA	14	0.53
(1,5891)	2:224:B:LYS:H	2:161:B:ILE:HD13	1	0.53
(1,5891)	2:224:B:LYS:H	2:161:B:ILE:HD12	15	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5891)	2:224:B:LYS:H	2:161:B:ILE:HD13	18	0.53
(1,5820)	2:214:B:VAL:HG12	2:218:B:THR:HB	20	0.53
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG21	7	0.53
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG22	7	0.53
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG23	7	0.53
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB1	3	0.53
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB3	15	0.53
(1,5542)	2:197:B:LEU:HA	2:198:B:MET:HE2	2	0.53
(1,5426)	2:183:B:LEU:H	2:186:B:MET:HE1	16	0.53
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG12	3	0.53
(1,5208)	1:5:A:GLY:HA2	1:19:A:THR:HG23	20	0.53
(1,5191)	1:24:A:PHE:HE2	2:244:B:LEU:HD22	8	0.53
(1,5191)	1:24:A:PHE:HE2	2:244:B:LEU:HD22	11	0.53
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG23	8	0.53
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD11	7	0.53
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD23	9	0.53
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD21	10	0.53
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD23	13	0.53
(1,4877)	2:247:B:TYR:HA	2:250:B:LEU:HD23	10	0.53
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD12	12	0.53
(1,4786)	2:159:B:PHE:H	2:231:B:LEU:HD23	11	0.53
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD11	8	0.53
(1,4679)	2:232:B:ILE:HG21	2:152:B:LEU:HD21	16	0.53
(1,4629)	2:181:B:ILE:HB	2:229:B:LEU:HD21	1	0.53
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD11	16	0.53
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD21	3	0.53
(1,4560)	1:20:A:SER:HB3	1:3:A:ARG:HG2	2	0.53
(1,4560)	1:20:A:SER:HB3	1:3:A:ARG:HG2	5	0.53
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD21	3	0.53
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD22	19	0.53
(1,4391)	1:37:A:GLN:HE21	1:7:A:ILE:HG13	4	0.53
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD12	2	0.53
(1,4278)	1:17:A:VAL:HG21	1:23:A:GLU:HB2	14	0.53
(1,4195)	2:207:B:GLU:HA	2:210:B:LYS:HD3	12	0.53
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	10	0.53
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	5	0.53
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	13	0.53
(1,3246)	1:13:A:MET:HB3	1:29:A:ARG:HD3	7	0.53
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD2	11	0.53
(1,2979)	2:227:B:ILE:HG22	2:231:B:LEU:HA	2	0.53
(1,2940)	1:7:A:ILE:HG22	1:9:A:GLU:HA	20	0.53
(1,2728)	2:231:B:LEU:HD21	2:155:B:LYS:HA	8	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2309)	2:223:B:ARG:HG3	2:203:B:ILE:HD12	3	0.53
(1,2300)	2:177:B:ARG:HG2	2:181:B:ILE:HD11	11	0.53
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD12	19	0.53
(1,2146)	2:163:B:PHE:HE1	2:232:B:ILE:HD11	18	0.53
(1,2146)	2:163:B:PHE:HE2	2:232:B:ILE:HD11	19	0.53
(1,2048)	2:187:B:LEU:HD13	2:197:B:LEU:H	3	0.53
(1,2048)	2:187:B:LEU:HD13	2:197:B:LEU:H	20	0.53
(1,1836)	1:19:A:THR:HG23	1:20:A:SER:H	6	0.53
(1,1836)	1:19:A:THR:HG22	1:20:A:SER:H	9	0.53
(1,1836)	1:19:A:THR:HG23	1:20:A:SER:H	15	0.53
(1,1836)	1:19:A:THR:HG23	1:20:A:SER:H	16	0.53
(1,1741)	2:170:B:VAL:HG22	1:23:A:GLU:H	11	0.53
(1,1741)	2:170:B:VAL:HG23	1:23:A:GLU:H	12	0.53
(1,1643)	2:195:B:ASN:HB3	2:192:B:GLN:H	12	0.53
(1,1540)	2:232:B:ILE:HG23	2:235:B:SER:H	1	0.53
(1,1523)	2:168:B:LEU:HD23	2:168:B:LEU:H	7	0.53
(1,1523)	2:168:B:LEU:HD22	2:168:B:LEU:H	17	0.53
(1,1299)	2:246:B:TYR:HE2	1:21:A:GLU:H	6	0.53
(1,1201)	2:229:B:LEU:HD13	2:228:B:ALA:H	14	0.53
(1,1168)	1:46:A:ILE:HD12	1:46:A:ILE:H	5	0.53
(1,1151)	2:161:B:ILE:HD13	2:228:B:ALA:H	10	0.53
(1,1148)	2:208:B:LEU:HD11	2:187:B:LEU:H	8	0.53
(1,1138)	2:227:B:ILE:HD12	2:227:B:ILE:H	14	0.53
(1,1135)	2:149:B:ILE:HG12	2:153:B:LYS:H	19	0.53
(1,1125)	2:153:B:LYS:HG3	2:163:B:PHE:H	5	0.53
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	18	0.53
(1,656)	1:27:A:ILE:HD12	1:39:A:VAL:H	15	0.53
(1,631)	2:187:B:LEU:HD13	2:197:B:LEU:H	3	0.53
(1,631)	2:187:B:LEU:HD13	2:197:B:LEU:H	20	0.53
(1,616)	1:26:A:ILE:HD11	1:26:A:ILE:H	15	0.53
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	7	0.53
(1,605)	1:23:A:GLU:HG2	2:170:B:VAL:H	9	0.53
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	19	0.53
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	10	0.53
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	17	0.53
(1,271)	1:49:A:VAL:HG11	1:48:A:ASN:H	16	0.53
(1,271)	1:49:A:VAL:HG12	1:48:A:ASN:H	16	0.53
(1,271)	1:49:A:VAL:HG13	1:48:A:ASN:H	16	0.53
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	6	0.53
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	8	0.53
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	11	0.53
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	8	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,179)	1:27:A:ILE:HG13	1:29:A:ARG:H	5	0.53
(1,179)	1:15:A:ALA:HB2	1:29:A:ARG:H	10	0.53
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD2	7	0.52
(1,6109)	1:16:A:VAL:HG21	2:163:B:PHE:HD2	16	0.52
(1,5940)	1:39:A:VAL:HG12	1:17:A:VAL:HG23	10	0.52
(1,5891)	2:160:B:GLY:H	2:161:B:ILE:HD11	10	0.52
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG23	5	0.52
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG23	9	0.52
(1,5701)	2:227:B:ILE:HG21	2:161:B:ILE:HG22	11	0.52
(1,5701)	2:227:B:ILE:HG23	2:161:B:ILE:HG22	12	0.52
(1,5542)	2:197:B:LEU:HA	2:198:B:MET:HE1	3	0.52
(1,5384)	2:156:B:LEU:HD22	2:162:B:THR:HG21	9	0.52
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG12	1	0.52
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG12	15	0.52
(1,5315)	2:179:B:LEU:HB2	2:218:B:THR:HG22	2	0.52
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG12	3	0.52
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG13	6	0.52
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG23	4	0.52
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG21	8	0.52
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD13	1	0.52
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD12	11	0.52
(1,5041)	2:244:B:LEU:HG	2:229:B:LEU:HD13	20	0.52
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG23	6	0.52
(1,4838)	2:178:B:GLN:HE21	2:248:B:THR:HG23	10	0.52
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD11	10	0.52
(1,4818)	2:163:B:PHE:HE2	2:152:B:LEU:HD12	9	0.52
(1,4801)	2:214:B:VAL:H	2:213:B:LYS:HD3	7	0.52
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD13	10	0.52
(1,4796)	2:228:B:ALA:H	2:166:B:LEU:HD13	12	0.52
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD12	19	0.52
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD12	3	0.52
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD21	7	0.52
(1,4679)	2:232:B:ILE:HG22	2:152:B:LEU:HD22	18	0.52
(1,4643)	2:167:B:VAL:HG11	2:168:B:LEU:HG	20	0.52
(1,4629)	2:181:B:ILE:HB	2:229:B:LEU:HD23	7	0.52
(1,4629)	2:226:B:ILE:HG13	2:229:B:LEU:HD22	16	0.52
(1,4612)	2:185:B:LYS:HE2	2:244:B:LEU:HD11	9	0.52
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD11	4	0.52
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD23	1	0.52
(1,4278)	1:17:A:VAL:HG23	1:23:A:GLU:HB2	19	0.52
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	10	0.52
(1,3955)	1:32:A:ASP:HB2	1:31:A:LYS:HB3	1	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3775)	1:16:A:VAL:HG22	1:9:A:GLU:HG2	13	0.52
(1,3743)	2:149:B:ILE:HG12	2:150:B:GLU:HG2	15	0.52
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	9	0.52
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	17	0.52
(1,3089)	2:187:B:LEU:HD11	2:188:B:ALA:HA	7	0.52
(1,2979)	2:227:B:ILE:HG21	2:231:B:LEU:HA	5	0.52
(1,2940)	1:7:A:ILE:HG22	1:9:A:GLU:HA	9	0.52
(1,2940)	1:7:A:ILE:HG21	1:9:A:GLU:HA	10	0.52
(1,2925)	2:188:B:ALA:HB3	2:184:B:ALA:HA	5	0.52
(1,2728)	2:231:B:LEU:HD23	2:155:B:LYS:HA	4	0.52
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	2	0.52
(1,2714)	2:232:B:ILE:HG12	2:241:B:LYS:HA	17	0.52
(1,2309)	2:223:B:ARG:HG3	2:203:B:ILE:HD13	5	0.52
(1,2309)	2:208:B:LEU:HB2	2:203:B:ILE:HD12	15	0.52
(1,2302)	2:171:B:PRO:HB3	2:181:B:ILE:HD13	20	0.52
(1,2048)	2:187:B:LEU:HD13	2:197:B:LEU:H	14	0.52
(1,2048)	2:187:B:LEU:HD12	2:197:B:LEU:H	18	0.52
(1,2048)	2:187:B:LEU:HD13	2:197:B:LEU:H	19	0.52
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	18	0.52
(1,1912)	2:161:B:ILE:HD11	2:160:B:GLY:H	10	0.52
(1,1882)	2:209:B:LYS:HE3	2:214:B:VAL:H	7	0.52
(1,1836)	1:19:A:THR:HG23	1:20:A:SER:H	11	0.52
(1,1741)	2:170:B:VAL:HG22	1:23:A:GLU:H	10	0.52
(1,1526)	1:7:A:ILE:HD13	1:33:A:MET:H	14	0.52
(1,1523)	2:168:B:LEU:HD23	2:168:B:LEU:H	6	0.52
(1,1489)	1:31:A:LYS:HG2	1:33:A:MET:H	14	0.52
(1,1286)	2:233:B:PHE:HD1	2:244:B:LEU:H	6	0.52
(1,1286)	2:233:B:PHE:HD2	2:244:B:LEU:H	16	0.52
(1,1286)	2:233:B:PHE:HD2	2:244:B:LEU:H	18	0.52
(1,1201)	2:156:B:LEU:HD12	2:228:B:ALA:H	19	0.52
(1,1168)	1:46:A:ILE:HD13	1:46:A:ILE:H	9	0.52
(1,1148)	2:208:B:LEU:HD11	2:187:B:LEU:H	20	0.52
(1,1142)	2:152:B:LEU:HD13	2:151:B:GLU:H	19	0.52
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	11	0.52
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	13	0.52
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	3	0.52
(1,674)	2:232:B:ILE:HG23	2:238:B:ASN:H	5	0.52
(1,674)	2:232:B:ILE:HG23	2:238:B:ASN:H	9	0.52
(1,631)	2:187:B:LEU:HD13	2:197:B:LEU:H	14	0.52
(1,631)	2:187:B:LEU:HD12	2:197:B:LEU:H	18	0.52
(1,631)	2:187:B:LEU:HD13	2:197:B:LEU:H	19	0.52
(1,234)	1:51:A:GLY:HA2	1:50:A:ARG:H	19	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,180)	1:10:A:ILE:HG22	1:29:A:ARG:H	17	0.52
(1,179)	1:27:A:ILE:HG13	1:29:A:ARG:H	3	0.52
(1,6184)	2:172:B:LYS:HB2	2:173:B:HIS:HD2	11	0.51
(1,6042)	2:161:B:ILE:HD11	2:159:B:PHE:HD2	3	0.51
(1,6042)	2:161:B:ILE:HD11	2:159:B:PHE:HD2	9	0.51
(1,5891)	2:224:B:LYS:H	2:161:B:ILE:HD12	9	0.51
(1,5853)	2:169:B:ASN:HB3	2:166:B:LEU:HD22	10	0.51
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG23	20	0.51
(1,5820)	2:183:B:LEU:HD11	2:218:B:THR:HB	5	0.51
(1,5701)	2:227:B:ILE:HG23	2:161:B:ILE:HG21	20	0.51
(1,5631)	1:38:A:GLN:HG3	2:143:B:ILE:HG21	18	0.51
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB2	13	0.51
(1,5372)	1:26:A:ILE:HD11	2:167:B:VAL:HG12	20	0.51
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG12	9	0.51
(1,5325)	1:14:A:LYS:HE2	1:16:A:VAL:HG22	18	0.51
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB1	16	0.51
(1,5052)	2:167:B:VAL:HG13	2:170:B:VAL:HG12	8	0.51
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG21	8	0.51
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG21	19	0.51
(1,4971)	2:157:B:GLN:HG2	2:154:B:LYS:HG3	3	0.51
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG21	10	0.51
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD13	12	0.51
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD11	5	0.51
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD13	6	0.51
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD11	10	0.51
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD12	15	0.51
(1,4629)	2:181:B:ILE:HB	2:229:B:LEU:HD23	4	0.51
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD13	19	0.51
(1,4560)	1:45:A:ASP:HB2	1:3:A:ARG:HG3	12	0.51
(1,4560)	1:20:A:SER:HB3	1:3:A:ARG:HG2	18	0.51
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD21	10	0.51
(1,4391)	1:37:A:GLN:HE21	1:7:A:ILE:HG13	9	0.51
(1,4302)	1:19:A:THR:H	1:25:A:LEU:HD13	8	0.51
(1,4261)	1:34:A:LYS:HG3	1:37:A:GLN:HB2	17	0.51
(1,4120)	2:163:B:PHE:HE1	2:153:B:LYS:HD2	5	0.51
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	1	0.51
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	3	0.51
(1,3967)	2:193:B:MET:HG2	2:211:B:LYS:HB2	15	0.51
(1,3955)	1:32:A:ASP:HB2	1:31:A:LYS:HB3	8	0.51
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	20	0.51
(1,3743)	2:149:B:ILE:HG12	2:147:B:GLU:HG2	20	0.51
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	11	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG2	8	0.51
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	19	0.51
(1,2979)	1:18:A:LEU:HD11	2:244:B:LEU:HA	13	0.51
(1,2940)	1:7:A:ILE:HG23	1:9:A:GLU:HA	2	0.51
(1,2940)	1:7:A:ILE:HG22	1:9:A:GLU:HA	3	0.51
(1,2940)	1:7:A:ILE:HG21	1:9:A:GLU:HA	16	0.51
(1,2925)	2:188:B:ALA:HB1	2:184:B:ALA:HA	17	0.51
(1,2925)	2:188:B:ALA:HB3	2:184:B:ALA:HA	19	0.51
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	1	0.51
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	3	0.51
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	11	0.51
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	20	0.51
(1,2309)	2:208:B:LEU:HB2	2:203:B:ILE:HD11	17	0.51
(1,2309)	2:223:B:ARG:HG3	2:203:B:ILE:HD12	18	0.51
(1,2222)	2:240:B:SER:HB2	2:149:B:ILE:HD13	7	0.51
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	16	0.51
(1,1299)	2:246:B:TYR:HE1	1:21:A:GLU:H	15	0.51
(1,1295)	2:194:B:TYR:HE1	2:195:B:ASN:H	5	0.51
(1,1286)	2:233:B:PHE:HD2	2:244:B:LEU:H	14	0.51
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	5	0.51
(1,1168)	1:46:A:ILE:HD11	1:46:A:ILE:H	3	0.51
(1,1168)	1:46:A:ILE:HD13	1:46:A:ILE:H	8	0.51
(1,1142)	2:152:B:LEU:HD11	2:151:B:GLU:H	9	0.51
(1,1138)	2:227:B:ILE:HD11	2:227:B:ILE:H	5	0.51
(1,1138)	2:227:B:ILE:HD12	2:227:B:ILE:H	7	0.51
(1,1138)	2:227:B:ILE:HD12	2:227:B:ILE:H	9	0.51
(1,1138)	2:227:B:ILE:HD11	2:227:B:ILE:H	16	0.51
(1,1126)	1:16:A:VAL:HG21	2:163:B:PHE:H	16	0.51
(1,1125)	2:162:B:THR:HG23	2:163:B:PHE:H	13	0.51
(1,1125)	2:162:B:THR:HG22	2:163:B:PHE:H	17	0.51
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	19	0.51
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	20	0.51
(1,952)	2:154:B:LYS:HE2	2:153:B:LYS:H	12	0.51
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	4	0.51
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	16	0.51
(1,619)	2:167:B:VAL:HG21	1:25:A:LEU:H	10	0.51
(1,616)	1:26:A:ILE:HD13	1:26:A:ILE:H	11	0.51
(1,62)	2:219:B:ILE:HG22	2:205:B:ARG:H	7	0.51
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD2	11	0.5
(1,6184)	2:209:B:LYS:HG3	2:215:B:HIS:HD2	3	0.5
(1,6184)	2:172:B:LYS:HB2	2:173:B:HIS:HD2	18	0.5
(1,5701)	2:227:B:ILE:HG22	2:161:B:ILE:HG22	10	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5701)	2:227:B:ILE:HG21	2:161:B:ILE:HG23	13	0.5
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG21	9	0.5
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG22	9	0.5
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG23	9	0.5
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE1	7	0.5
(1,5384)	2:156:B:LEU:HD21	2:162:B:THR:HG22	10	0.5
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG11	7	0.5
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG13	13	0.5
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB1	19	0.5
(1,5191)	1:24:A:PHE:HE1	2:244:B:LEU:HD23	5	0.5
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG22	14	0.5
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG22	14	0.5
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD12	20	0.5
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD22	19	0.5
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG23	12	0.5
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD13	2	0.5
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD13	6	0.5
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD11	20	0.5
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD12	1	0.5
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD12	6	0.5
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD12	8	0.5
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD23	16	0.5
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD11	9	0.5
(1,4643)	2:167:B:VAL:HG11	2:168:B:LEU:HG	8	0.5
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD12	5	0.5
(1,4612)	2:185:B:LYS:HE2	2:244:B:LEU:HD12	7	0.5
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD22	5	0.5
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD23	17	0.5
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD21	20	0.5
(1,4302)	1:19:A:THR:H	1:25:A:LEU:HD13	12	0.5
(1,4102)	2:231:B:LEU:H	2:234:B:ARG:HB2	15	0.5
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	16	0.5
(1,3774)	1:35:A:VAL:HG22	1:9:A:GLU:HG2	14	0.5
(1,3743)	2:149:B:ILE:HG12	2:150:B:GLU:HG2	16	0.5
(1,3711)	2:210:B:LYS:HE2	2:207:B:GLU:HG2	3	0.5
(1,3710)	2:146:B:ARG:HD2	2:150:B:GLU:HG2	20	0.5
(1,3580)	2:151:B:GLU:H	2:151:B:GLU:HG2	6	0.5
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	3	0.5
(1,3089)	2:187:B:LEU:HD12	2:188:B:ALA:HA	19	0.5
(1,3089)	2:187:B:LEU:HD12	2:188:B:ALA:HA	20	0.5
(1,2979)	1:18:A:LEU:HD12	2:244:B:LEU:HA	11	0.5
(1,2803)	2:169:B:ASN:HD22	2:166:B:LEU:HA	20	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2564)	1:33:A:MET:H	1:31:A:LYS:HA	15	0.5
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	2	0.5
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	4	0.5
(1,2146)	2:163:B:PHE:HE1	2:232:B:ILE:HD11	3	0.5
(1,2146)	2:163:B:PHE:HE1	2:232:B:ILE:HD13	4	0.5
(1,2048)	2:187:B:LEU:HD13	2:197:B:LEU:H	1	0.5
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	10	0.5
(1,1906)	2:209:B:LYS:HG3	2:214:B:VAL:H	4	0.5
(1,1882)	2:209:B:LYS:HE3	2:214:B:VAL:H	3	0.5
(1,1882)	2:209:B:LYS:HE3	2:214:B:VAL:H	18	0.5
(1,1836)	1:19:A:THR:HG22	1:20:A:SER:H	13	0.5
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	18	0.5
(1,1739)	2:219:B:ILE:HG21	2:222:B:ASN:H	12	0.5
(1,1705)	2:219:B:ILE:HG13	2:222:B:ASN:HD21	3	0.5
(1,1529)	2:181:B:ILE:HD12	1:21:A:GLU:H	18	0.5
(1,1463)	2:191:B:GLU:HB2	2:195:B:ASN:H	4	0.5
(1,1201)	2:156:B:LEU:HD12	2:228:B:ALA:H	1	0.5
(1,1201)	2:229:B:LEU:HD12	2:228:B:ALA:H	3	0.5
(1,1201)	2:229:B:LEU:HD11	2:228:B:ALA:H	4	0.5
(1,1201)	2:156:B:LEU:HD12	2:228:B:ALA:H	6	0.5
(1,1168)	1:46:A:ILE:HD12	1:46:A:ILE:H	11	0.5
(1,1151)	2:161:B:ILE:HD11	2:228:B:ALA:H	17	0.5
(1,1138)	2:227:B:ILE:HD12	2:227:B:ILE:H	11	0.5
(1,1138)	2:227:B:ILE:HD11	2:227:B:ILE:H	12	0.5
(1,1138)	2:227:B:ILE:HD11	2:227:B:ILE:H	15	0.5
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	5	0.5
(1,957)	2:195:B:ASN:HB3	2:199:B:LYS:H	9	0.5
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	2	0.5
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	6	0.5
(1,631)	2:187:B:LEU:HD13	2:197:B:LEU:H	1	0.5
(1,616)	1:26:A:ILE:HD12	1:26:A:ILE:H	16	0.5
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	11	0.5
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	20	0.5
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	16	0.5
(1,271)	1:49:A:VAL:HG11	1:48:A:ASN:H	15	0.5
(1,271)	1:49:A:VAL:HG12	1:48:A:ASN:H	15	0.5
(1,271)	1:49:A:VAL:HG13	1:48:A:ASN:H	15	0.5
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	13	0.5
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD2	15	0.49
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE2	11	0.49
(1,6042)	2:161:B:ILE:HD12	2:159:B:PHE:HD2	1	0.49
(1,5940)	1:39:A:VAL:HG13	1:17:A:VAL:HG21	7	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5629)	2:150:B:GLU:HG2	2:149:B:ILE:HG21	9	0.49
(1,5629)	2:150:B:GLU:HG2	2:149:B:ILE:HG21	13	0.49
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG21	15	0.49
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG22	15	0.49
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG23	15	0.49
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG22	19	0.49
(1,5610)	2:205:B:ARG:HD2	2:203:B:ILE:HG22	3	0.49
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB3	8	0.49
(1,5594)	2:148:B:ASP:HB3	2:145:B:ALA:HB3	17	0.49
(1,5428)	2:212:B:ALA:H	2:193:B:MET:HE2	4	0.49
(1,5428)	2:212:B:ALA:H	2:193:B:MET:HE1	13	0.49
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG13	10	0.49
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG11	11	0.49
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB3	15	0.49
(1,5191)	1:24:A:PHE:HE1	2:244:B:LEU:HD22	1	0.49
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG22	1	0.49
(1,5052)	2:167:B:VAL:HG13	2:170:B:VAL:HG13	1	0.49
(1,4971)	2:157:B:GLN:HG2	2:154:B:LYS:HG3	9	0.49
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD12	11	0.49
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD12	13	0.49
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD13	13	0.49
(1,4713)	2:144:B:GLU:H	2:239:B:LEU:HD21	10	0.49
(1,4629)	2:226:B:ILE:HG13	2:229:B:LEU:HD23	9	0.49
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD11	8	0.49
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD21	20	0.49
(1,4302)	1:19:A:THR:H	1:25:A:LEU:HD12	15	0.49
(1,4205)	2:246:B:TYR:HB3	2:249:B:MET:HG3	2	0.49
(1,4116)	2:148:B:ASP:H	2:144:B:GLU:HB3	4	0.49
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	9	0.49
(1,3877)	2:163:B:PHE:HE1	2:153:B:LYS:HB3	5	0.49
(1,3774)	1:35:A:VAL:HG22	1:9:A:GLU:HG2	19	0.49
(1,3739)	2:196:B:ALA:HB3	2:195:B:ASN:HB2	12	0.49
(1,3713)	2:155:B:LYS:HE2	2:151:B:GLU:HG3	18	0.49
(1,3711)	2:210:B:LYS:HE2	2:207:B:GLU:HG2	11	0.49
(1,3216)	1:50:A:ARG:HA	1:50:A:ARG:HD3	1	0.49
(1,3181)	2:159:B:PHE:H	2:201:B:LYS:HE2	12	0.49
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	15	0.49
(1,3102)	2:193:B:MET:HG3	2:204:B:PRO:HD2	11	0.49
(1,3089)	2:187:B:LEU:HD13	2:188:B:ALA:HA	8	0.49
(1,2979)	2:227:B:ILE:HG23	2:231:B:LEU:HA	14	0.49
(1,2940)	1:7:A:ILE:HG21	1:9:A:GLU:HA	13	0.49
(1,2940)	1:7:A:ILE:HG21	1:9:A:GLU:HA	14	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	11	0.49
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD12	9	0.49
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	1	0.49
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	7	0.49
(1,2139)	2:219:B:ILE:H	2:219:B:ILE:HD12	1	0.49
(1,2048)	2:187:B:LEU:HD12	2:197:B:LEU:H	4	0.49
(1,2048)	2:187:B:LEU:HD13	2:197:B:LEU:H	16	0.49
(1,2024)	2:218:B:THR:HG22	2:180:B:CYS:H	10	0.49
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	12	0.49
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	13	0.49
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	16	0.49
(1,1741)	2:170:B:VAL:HG22	1:23:A:GLU:H	7	0.49
(1,1741)	2:170:B:VAL:HG22	1:23:A:GLU:H	19	0.49
(1,1739)	2:219:B:ILE:HG23	2:222:B:ASN:H	8	0.49
(1,1739)	2:219:B:ILE:HG21	2:222:B:ASN:H	13	0.49
(1,1540)	2:232:B:ILE:HG21	2:235:B:SER:H	12	0.49
(1,1530)	1:35:A:VAL:HG21	1:9:A:GLU:H	17	0.49
(1,1526)	1:7:A:ILE:HD13	1:33:A:MET:H	20	0.49
(1,1523)	2:168:B:LEU:HD21	2:168:B:LEU:H	11	0.49
(1,1503)	2:214:B:VAL:HG11	2:212:B:ALA:H	1	0.49
(1,1489)	1:31:A:LYS:HG2	1:33:A:MET:H	15	0.49
(1,1300)	2:247:B:TYR:HE2	1:21:A:GLU:H	12	0.49
(1,1286)	2:233:B:PHE:HD1	2:244:B:LEU:H	7	0.49
(1,1286)	2:233:B:PHE:HD1	2:244:B:LEU:H	17	0.49
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	2	0.49
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	11	0.49
(1,1138)	2:227:B:ILE:HD13	2:227:B:ILE:H	6	0.49
(1,1125)	2:162:B:THR:HG22	2:163:B:PHE:H	18	0.49
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	2	0.49
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	20	0.49
(1,631)	2:187:B:LEU:HD12	2:197:B:LEU:H	4	0.49
(1,631)	2:187:B:LEU:HD13	2:197:B:LEU:H	16	0.49
(1,619)	2:167:B:VAL:HG21	1:25:A:LEU:H	18	0.49
(1,616)	1:26:A:ILE:HD11	1:26:A:ILE:H	14	0.49
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	15	0.49
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	10	0.49
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	9	0.49
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	5	0.49
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	3	0.49
(1,179)	1:15:A:ALA:HB2	1:29:A:ARG:H	13	0.49
(1,6236)	1:6:A:ILE:HG23	1:8:A:TYR:HE1	9	0.48
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE1	1	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE1	16	0.48
(1,6042)	2:161:B:ILE:HD13	2:159:B:PHE:HD1	20	0.48
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG23	3	0.48
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG21	9	0.48
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG22	1	0.48
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG11	5	0.48
(1,5342)	2:164:B:LEU:HB2	2:162:B:THR:HG21	5	0.48
(1,5325)	1:14:A:LYS:HE2	1:16:A:VAL:HG23	1	0.48
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB2	7	0.48
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG13	10	0.48
(1,4993)	1:14:A:LYS:HE2	2:164:B:LEU:HD11	6	0.48
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG23	13	0.48
(1,4971)	2:157:B:GLN:HG2	2:154:B:LYS:HG3	4	0.48
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD22	17	0.48
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG22	15	0.48
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD13	4	0.48
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD13	4	0.48
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD21	5	0.48
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD12	5	0.48
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD13	18	0.48
(1,4261)	1:34:A:LYS:HG3	1:37:A:GLN:HB2	4	0.48
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD3	5	0.48
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD3	13	0.48
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	6	0.48
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	19	0.48
(1,3774)	1:35:A:VAL:HG22	1:9:A:GLU:HG2	1	0.48
(1,3743)	2:149:B:ILE:HG12	2:147:B:GLU:HG2	9	0.48
(1,3710)	1:28:A:ARG:HD2	1:44:A:GLU:HG2	18	0.48
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	7	0.48
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	8	0.48
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG3	14	0.48
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG2	18	0.48
(1,3438)	2:189:B:GLU:HG3	2:185:B:LYS:HE3	10	0.48
(1,3089)	2:187:B:LEU:HD11	2:188:B:ALA:HA	9	0.48
(1,2979)	2:227:B:ILE:HG22	2:231:B:LEU:HA	3	0.48
(1,2728)	2:231:B:LEU:HD22	2:155:B:LYS:HA	2	0.48
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	12	0.48
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD11	13	0.48
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	11	0.48
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD13	18	0.48
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD13	19	0.48
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	5	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	13	0.48
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	15	0.48
(1,1991)	1:26:A:ILE:HD13	1:49:A:VAL:H	7	0.48
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	4	0.48
(1,1836)	1:19:A:THR:HG23	1:20:A:SER:H	3	0.48
(1,1836)	1:19:A:THR:HG22	1:20:A:SER:H	4	0.48
(1,1836)	1:19:A:THR:HG23	1:20:A:SER:H	7	0.48
(1,1834)	2:199:B:LYS:HB2	2:202:B:ASN:H	15	0.48
(1,1741)	1:25:A:LEU:HD21	1:23:A:GLU:H	8	0.48
(1,1739)	2:219:B:ILE:HG22	2:222:B:ASN:H	19	0.48
(1,1526)	1:7:A:ILE:HD11	1:33:A:MET:H	13	0.48
(1,1523)	1:49:A:VAL:HG22	2:168:B:LEU:H	16	0.48
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	18	0.48
(1,1299)	2:246:B:TYR:HE2	1:21:A:GLU:H	10	0.48
(1,1299)	1:41:A:PHE:HZ	1:21:A:GLU:H	20	0.48
(1,1295)	2:194:B:TYR:HE2	2:195:B:ASN:H	16	0.48
(1,1286)	2:233:B:PHE:HD1	2:244:B:LEU:H	19	0.48
(1,1201)	2:229:B:LEU:HD11	2:228:B:ALA:H	2	0.48
(1,1175)	2:203:B:ILE:HG13	2:223:B:ARG:H	15	0.48
(1,1148)	2:208:B:LEU:HD13	2:187:B:LEU:H	7	0.48
(1,1138)	2:227:B:ILE:HD12	2:227:B:ILE:H	2	0.48
(1,1126)	1:16:A:VAL:HG22	2:163:B:PHE:H	5	0.48
(1,1126)	1:16:A:VAL:HG21	2:163:B:PHE:H	13	0.48
(1,1125)	2:162:B:THR:HG22	2:163:B:PHE:H	3	0.48
(1,1125)	2:162:B:THR:HG21	2:163:B:PHE:H	9	0.48
(1,1125)	2:162:B:THR:HG22	2:163:B:PHE:H	10	0.48
(1,1125)	2:162:B:THR:HG23	2:163:B:PHE:H	12	0.48
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	5	0.48
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	1	0.48
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	6	0.48
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	10	0.48
(1,816)	2:247:B:TYR:HE2	2:247:B:TYR:H	14	0.48
(1,674)	2:232:B:ILE:HG23	2:238:B:ASN:H	3	0.48
(1,619)	2:167:B:VAL:HG22	1:25:A:LEU:H	2	0.48
(1,619)	2:167:B:VAL:HG21	1:25:A:LEU:H	6	0.48
(1,616)	1:26:A:ILE:HD11	1:26:A:ILE:H	8	0.48
(1,616)	1:26:A:ILE:HD11	1:26:A:ILE:H	9	0.48
(1,616)	1:26:A:ILE:HD13	1:26:A:ILE:H	20	0.48
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	4	0.48
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	19	0.48
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	4	0.48
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	8	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,179)	1:27:A:ILE:HG13	1:29:A:ARG:H	15	0.48
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	5	0.48
(1,6207)	1:5:A:GLY:H	2:243:B:TYR:HE1	7	0.47
(1,6180)	1:14:A:LYS:HE2	1:47:A:TYR:HE2	4	0.47
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE2	3	0.47
(1,5891)	2:160:B:GLY:H	2:161:B:ILE:HD12	17	0.47
(1,5852)	2:225:B:TYR:HE1	2:170:B:VAL:HG13	8	0.47
(1,5830)	1:36:A:GLY:HA3	1:6:A:ILE:HG21	3	0.47
(1,5820)	2:219:B:ILE:HG12	2:218:B:THR:HB	2	0.47
(1,5820)	2:183:B:LEU:HD12	2:218:B:THR:HB	11	0.47
(1,5640)	2:217:B:ARG:HB2	2:218:B:THR:HB	12	0.47
(1,5629)	2:150:B:GLU:HG2	2:149:B:ILE:HG22	3	0.47
(1,5629)	2:150:B:GLU:HG2	2:149:B:ILE:HG21	19	0.47
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG21	1	0.47
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG22	1	0.47
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG23	1	0.47
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG21	6	0.47
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE3	9	0.47
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE1	16	0.47
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG11	19	0.47
(1,5342)	2:164:B:LEU:HB2	2:162:B:THR:HG22	9	0.47
(1,5315)	2:183:B:LEU:HB2	2:218:B:THR:HG23	15	0.47
(1,5267)	2:229:B:LEU:HA	2:244:B:LEU:HD22	12	0.47
(1,4957)	2:230:B:CYS:HB2	2:208:B:LEU:HD12	6	0.47
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD22	10	0.47
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD13	1	0.47
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD12	6	0.47
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD11	7	0.47
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD13	19	0.47
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD23	1	0.47
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD22	18	0.47
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	2	0.47
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	11	0.47
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	7	0.47
(1,3774)	1:35:A:VAL:HG22	1:9:A:GLU:HG2	18	0.47
(1,3743)	2:149:B:ILE:HG12	2:147:B:GLU:HG2	7	0.47
(1,3739)	2:196:B:ALA:HB2	2:195:B:ASN:HB2	4	0.47
(1,3710)	2:146:B:ARG:HD2	2:150:B:GLU:HG2	9	0.47
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD2	5	0.47
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	2	0.47
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	7	0.47
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	8	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2940)	1:7:A:ILE:HG21	1:9:A:GLU:HA	7	0.47
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	14	0.47
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	9	0.47
(1,2235)	2:222:B:ASN:HB2	2:203:B:ILE:HD12	17	0.47
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD12	13	0.47
(1,2048)	2:187:B:LEU:HD12	2:197:B:LEU:H	7	0.47
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	2	0.47
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	9	0.47
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	10	0.47
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	20	0.47
(1,1912)	2:161:B:ILE:HD12	2:160:B:GLY:H	17	0.47
(1,1836)	1:19:A:THR:HG23	1:20:A:SER:H	2	0.47
(1,1674)	2:158:B:GLU:HG2	2:159:B:PHE:H	17	0.47
(1,1591)	1:24:A:PHE:HD1	1:23:A:GLU:H	9	0.47
(1,1540)	2:232:B:ILE:HG22	2:235:B:SER:H	13	0.47
(1,1526)	1:7:A:ILE:HD12	1:33:A:MET:H	12	0.47
(1,1523)	2:168:B:LEU:HD21	2:168:B:LEU:H	1	0.47
(1,1523)	2:168:B:LEU:HD23	2:168:B:LEU:H	12	0.47
(1,1503)	2:214:B:VAL:HG12	2:212:B:ALA:H	14	0.47
(1,1503)	2:214:B:VAL:HG11	2:212:B:ALA:H	16	0.47
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	10	0.47
(1,1198)	2:156:B:LEU:HD12	2:157:B:GLN:H	9	0.47
(1,1151)	2:161:B:ILE:HD13	2:228:B:ALA:H	13	0.47
(1,1148)	2:208:B:LEU:HD13	2:187:B:LEU:H	9	0.47
(1,1148)	2:208:B:LEU:HD11	2:187:B:LEU:H	19	0.47
(1,1138)	2:227:B:ILE:HD13	2:227:B:ILE:H	8	0.47
(1,1138)	2:227:B:ILE:HD12	2:227:B:ILE:H	19	0.47
(1,1080)	2:144:B:GLU:HB3	2:143:B:ILE:H	12	0.47
(1,957)	2:195:B:ASN:HB3	2:199:B:LYS:H	1	0.47
(1,633)	1:10:A:ILE:HD13	1:35:A:VAL:H	4	0.47
(1,631)	2:187:B:LEU:HD12	2:197:B:LEU:H	7	0.47
(1,616)	1:26:A:ILE:HD12	1:26:A:ILE:H	10	0.47
(1,616)	1:26:A:ILE:HD11	1:26:A:ILE:H	12	0.47
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	2	0.47
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	5	0.47
(1,605)	1:23:A:GLU:HG2	2:170:B:VAL:H	14	0.47
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	15	0.47
(1,522)	1:42:A:GLU:HG3	1:43:A:ASN:H	10	0.47
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	11	0.47
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	13	0.47
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	15	0.47
(1,6176)	2:230:B:CYS:HB2	2:194:B:TYR:HE1	9	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE2	7	0.46
(1,6042)	2:161:B:ILE:HD13	2:159:B:PHE:HD1	19	0.46
(1,5940)	1:39:A:VAL:HG12	1:17:A:VAL:HG22	20	0.46
(1,5852)	2:225:B:TYR:HE2	2:170:B:VAL:HG13	16	0.46
(1,5746)	2:189:B:GLU:HB2	2:185:B:LYS:HA	17	0.46
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG21	19	0.46
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG22	19	0.46
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG23	19	0.46
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB3	12	0.46
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE3	2	0.46
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE2	19	0.46
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE2	18	0.46
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE2	9	0.46
(1,5372)	1:26:A:ILE:HD12	2:167:B:VAL:HG12	6	0.46
(1,5347)	2:149:B:ILE:HG12	1:35:A:VAL:HG11	12	0.46
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB3	3	0.46
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD21	19	0.46
(1,5208)	1:5:A:GLY:HA2	1:19:A:THR:HG21	1	0.46
(1,4989)	2:167:B:VAL:HB	2:164:B:LEU:HD21	14	0.46
(1,4971)	2:157:B:GLN:HG2	2:154:B:LYS:HG3	8	0.46
(1,4808)	2:214:B:VAL:H	2:213:B:LYS:HG3	4	0.46
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD13	5	0.46
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD11	20	0.46
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD12	20	0.46
(1,4770)	2:247:B:TYR:H	2:250:B:LEU:HD23	13	0.46
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD23	3	0.46
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD12	1	0.46
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD11	11	0.46
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD13	12	0.46
(1,4684)	2:149:B:ILE:HD11	2:237:B:LEU:HD22	8	0.46
(1,4679)	2:232:B:ILE:HG23	2:152:B:LEU:HD23	2	0.46
(1,4629)	2:181:B:ILE:HB	2:229:B:LEU:HD21	6	0.46
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD12	1	0.46
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD13	3	0.46
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD12	20	0.46
(1,4592)	2:142:B:ASP:HB2	2:143:B:ILE:HG13	8	0.46
(1,4576)	2:159:B:PHE:HB2	2:156:B:LEU:HD23	20	0.46
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD21	2	0.46
(1,4546)	1:43:A:ASN:HB3	1:44:A:GLU:HB2	19	0.46
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD22	1	0.46
(1,4391)	1:37:A:GLN:HE21	1:7:A:ILE:HG13	11	0.46
(1,4262)	1:6:A:ILE:HG21	1:37:A:GLN:HB3	14	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4195)	2:207:B:GLU:HA	2:210:B:LYS:HD3	16	0.46
(1,3967)	2:186:B:MET:HG2	2:211:B:LYS:HB3	3	0.46
(1,3943)	2:153:B:LYS:HE2	2:157:B:GLN:HG2	7	0.46
(1,3739)	2:196:B:ALA:HB3	2:195:B:ASN:HB2	7	0.46
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	19	0.46
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	10	0.46
(1,3669)	2:248:B:THR:HB	2:245:B:GLU:HG2	9	0.46
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG2	1	0.46
(1,3457)	2:241:B:LYS:HB2	2:238:B:ASN:HB2	17	0.46
(1,3193)	2:247:B:TYR:HD2	2:177:B:ARG:HD2	16	0.46
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	16	0.46
(1,2925)	2:188:B:ALA:HB1	2:184:B:ALA:HA	7	0.46
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	7	0.46
(1,2422)	2:225:B:TYR:HE2	2:225:B:TYR:HA	10	0.46
(1,2235)	2:222:B:ASN:HB2	2:203:B:ILE:HD11	15	0.46
(1,2235)	2:205:B:ARG:HD3	2:203:B:ILE:HD11	19	0.46
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD11	4	0.46
(1,2146)	2:163:B:PHE:HE2	2:232:B:ILE:HD11	5	0.46
(1,2139)	2:219:B:ILE:H	2:219:B:ILE:HD13	5	0.46
(1,2051)	2:205:B:ARG:HB3	2:209:B:LYS:H	6	0.46
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	4	0.46
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	8	0.46
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	12	0.46
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	14	0.46
(1,1836)	1:19:A:THR:HG22	1:20:A:SER:H	17	0.46
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	2	0.46
(1,1741)	2:170:B:VAL:HG23	1:23:A:GLU:H	2	0.46
(1,1741)	2:170:B:VAL:HG22	1:23:A:GLU:H	20	0.46
(1,1643)	2:195:B:ASN:HB3	2:192:B:GLN:H	9	0.46
(1,1540)	2:232:B:ILE:HG21	2:235:B:SER:H	9	0.46
(1,1529)	2:181:B:ILE:HD13	1:21:A:GLU:H	5	0.46
(1,1526)	1:7:A:ILE:HD13	1:33:A:MET:H	2	0.46
(1,1526)	1:46:A:ILE:HG13	1:3:A:ARG:HE	5	0.46
(1,1489)	1:31:A:LYS:HG2	1:33:A:MET:H	2	0.46
(1,1470)	2:232:B:ILE:HB	2:231:B:LEU:H	13	0.46
(1,1458)	2:211:B:LYS:HD2	2:212:B:ALA:H	12	0.46
(1,1413)	1:29:A:ARG:HD2	1:33:A:MET:H	20	0.46
(1,1365)	2:223:B:ARG:HD2	2:224:B:LYS:H	5	0.46
(1,1300)	2:247:B:TYR:HE2	1:21:A:GLU:H	10	0.46
(1,1299)	1:41:A:PHE:HZ	1:21:A:GLU:H	9	0.46
(1,1295)	2:194:B:TYR:HE2	2:195:B:ASN:H	13	0.46
(1,1286)	2:233:B:PHE:HD2	2:244:B:LEU:H	1	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1286)	2:233:B:PHE:HD1	2:244:B:LEU:H	5	0.46
(1,1286)	2:233:B:PHE:HD2	2:244:B:LEU:H	8	0.46
(1,1286)	2:233:B:PHE:HD2	2:244:B:LEU:H	11	0.46
(1,1201)	2:156:B:LEU:HD13	2:228:B:ALA:H	5	0.46
(1,1168)	1:46:A:ILE:HD13	1:46:A:ILE:H	14	0.46
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	16	0.46
(1,1138)	2:227:B:ILE:HD12	2:227:B:ILE:H	4	0.46
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	6	0.46
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	9	0.46
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	14	0.46
(1,619)	2:167:B:VAL:HG21	1:25:A:LEU:H	1	0.46
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	3	0.46
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	5	0.46
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	17	0.46
(1,189)	1:6:A:ILE:HD12	1:7:A:ILE:H	8	0.46
(1,173)	1:10:A:ILE:HD11	1:10:A:ILE:H	13	0.46
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	12	0.46
(1,6207)	1:5:A:GLY:H	2:243:B:TYR:HE1	10	0.45
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE1	9	0.45
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE2	20	0.45
(1,5891)	2:224:B:LYS:H	2:161:B:ILE:HD12	3	0.45
(1,5852)	2:225:B:TYR:HE1	2:170:B:VAL:HG11	4	0.45
(1,5721)	2:228:B:ALA:H	2:203:B:ILE:HD13	1	0.45
(1,5629)	2:150:B:GLU:HG2	2:149:B:ILE:HG23	8	0.45
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG21	11	0.45
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG22	11	0.45
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG23	11	0.45
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG21	3	0.45
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE1	8	0.45
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE1	20	0.45
(1,5457)	2:187:B:LEU:H	2:193:B:MET:HE1	16	0.45
(1,5429)	2:185:B:LYS:H	2:186:B:MET:HE3	18	0.45
(1,5315)	2:183:B:LEU:HB2	2:218:B:THR:HG23	20	0.45
(1,5191)	1:24:A:PHE:HE2	2:244:B:LEU:HD23	7	0.45
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG22	12	0.45
(1,5052)	2:167:B:VAL:HG13	2:170:B:VAL:HG13	7	0.45
(1,5052)	2:167:B:VAL:HG11	2:170:B:VAL:HG12	19	0.45
(1,4991)	1:38:A:GLN:HG2	2:239:B:LEU:HD12	11	0.45
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD11	1	0.45
(1,4957)	2:230:B:CYS:HB2	2:208:B:LEU:HD11	13	0.45
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD22	8	0.45
(1,4812)	2:202:B:ASN:H	2:197:B:LEU:HD21	15	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD12	16	0.45
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD13	17	0.45
(1,4684)	2:232:B:ILE:HG22	2:237:B:LEU:HD21	1	0.45
(1,4679)	2:232:B:ILE:HG22	2:152:B:LEU:HD23	10	0.45
(1,4679)	2:232:B:ILE:HG21	2:152:B:LEU:HD21	17	0.45
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD21	4	0.45
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD22	6	0.45
(1,4576)	2:159:B:PHE:HB2	2:156:B:LEU:HD21	8	0.45
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD22	9	0.45
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD21	2	0.45
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD12	1	0.45
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD12	11	0.45
(1,4266)	1:14:A:LYS:HG3	1:11:A:GLN:HB3	18	0.45
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	2	0.45
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	18	0.45
(1,3774)	1:35:A:VAL:HG23	1:9:A:GLU:HG2	20	0.45
(1,3742)	2:146:B:ARG:HG3	2:150:B:GLU:HG2	11	0.45
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	17	0.45
(1,3713)	2:154:B:LYS:HE3	2:151:B:GLU:HG3	3	0.45
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	18	0.45
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG3	11	0.45
(1,3529)	1:44:A:GLU:H	1:42:A:GLU:HG2	7	0.45
(1,3529)	1:44:A:GLU:H	1:42:A:GLU:HG2	10	0.45
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	8	0.45
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD2	13	0.45
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	14	0.45
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	18	0.45
(1,2621)	2:211:B:LYS:HE3	2:211:B:LYS:HA	16	0.45
(1,2369)	2:149:B:ILE:HD11	1:35:A:VAL:HA	11	0.45
(1,2369)	2:149:B:ILE:HD11	1:35:A:VAL:HA	13	0.45
(1,2369)	2:149:B:ILE:HD12	1:35:A:VAL:HA	14	0.45
(1,2302)	2:171:B:PRO:HB3	2:181:B:ILE:HD12	15	0.45
(1,2051)	2:205:B:ARG:HB3	2:209:B:LYS:H	9	0.45
(1,2047)	2:203:B:ILE:HG23	2:208:B:LEU:H	17	0.45
(1,2024)	2:218:B:THR:HG23	2:180:B:CYS:H	1	0.45
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	3	0.45
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	13	0.45
(1,1844)	2:197:B:LEU:HD21	2:202:B:ASN:H	15	0.45
(1,1837)	1:4:A:LEU:HD11	1:20:A:SER:H	1	0.45
(1,1836)	1:19:A:THR:HG22	1:20:A:SER:H	5	0.45
(1,1836)	1:19:A:THR:HG23	1:20:A:SER:H	12	0.45
(1,1733)	2:187:B:LEU:HD23	2:188:B:ALA:H	5	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1733)	2:187:B:LEU:HD13	2:188:B:ALA:H	6	0.45
(1,1733)	2:187:B:LEU:HD13	2:188:B:ALA:H	12	0.45
(1,1543)	1:17:A:VAL:HG13	1:9:A:GLU:H	8	0.45
(1,1540)	2:232:B:ILE:HG23	2:235:B:SER:H	14	0.45
(1,1521)	1:6:A:ILE:HG22	1:37:A:GLN:H	10	0.45
(1,1513)	2:227:B:ILE:HD12	2:224:B:LYS:H	20	0.45
(1,1503)	2:214:B:VAL:HG13	2:212:B:ALA:H	19	0.45
(1,1489)	1:31:A:LYS:HG2	1:33:A:MET:H	19	0.45
(1,1299)	1:41:A:PHE:HZ	1:21:A:GLU:H	18	0.45
(1,1295)	2:194:B:TYR:HE1	2:195:B:ASN:H	7	0.45
(1,1286)	2:233:B:PHE:HD1	2:244:B:LEU:H	20	0.45
(1,1201)	2:156:B:LEU:HD12	2:228:B:ALA:H	16	0.45
(1,1198)	2:156:B:LEU:HD11	2:157:B:GLN:H	18	0.45
(1,1168)	1:46:A:ILE:HD12	1:46:A:ILE:H	10	0.45
(1,1151)	2:161:B:ILE:HD13	2:228:B:ALA:H	1	0.45
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	18	0.45
(1,1080)	2:144:B:GLU:HB3	2:143:B:ILE:H	15	0.45
(1,946)	2:182:B:ARG:HD2	2:181:B:ILE:H	17	0.45
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	3	0.45
(1,619)	2:167:B:VAL:HG23	1:25:A:LEU:H	7	0.45
(1,616)	1:26:A:ILE:HD11	1:26:A:ILE:H	6	0.45
(1,616)	1:26:A:ILE:HD11	1:26:A:ILE:H	18	0.45
(1,616)	1:26:A:ILE:HD13	1:26:A:ILE:H	19	0.45
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	6	0.45
(1,269)	1:26:A:ILE:HG23	1:15:A:ALA:H	13	0.45
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	18	0.45
(1,179)	1:27:A:ILE:HG13	1:29:A:ARG:H	9	0.45
(1,179)	1:27:A:ILE:HG13	1:29:A:ARG:H	20	0.45
(1,173)	1:10:A:ILE:HD13	1:10:A:ILE:H	2	0.45
(1,173)	1:10:A:ILE:HD13	1:10:A:ILE:H	18	0.45
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	6	0.45
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	11	0.45
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	18	0.45
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	5	0.44
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	13	0.44
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	20	0.44
(1,6184)	2:209:B:LYS:HG3	2:215:B:HIS:HD2	2	0.44
(1,6180)	1:14:A:LYS:HE2	1:47:A:TYR:HE1	6	0.44
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE2	15	0.44
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE1	1	0.44
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE1	20	0.44
(1,5940)	1:39:A:VAL:HG13	1:17:A:VAL:HG21	1	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5940)	1:39:A:VAL:HG13	1:17:A:VAL:HG23	2	0.44
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	17	0.44
(1,5852)	2:225:B:TYR:HE1	2:170:B:VAL:HG12	13	0.44
(1,5721)	2:228:B:ALA:H	2:203:B:ILE:HD13	7	0.44
(1,5721)	2:220:B:GLY:H	2:203:B:ILE:HD11	11	0.44
(1,5701)	2:227:B:ILE:HG22	2:161:B:ILE:HG23	2	0.44
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG22	14	0.44
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB2	6	0.44
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG23	18	0.44
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE1	2	0.44
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE1	12	0.44
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE1	14	0.44
(1,5428)	2:212:B:ALA:H	2:193:B:MET:HE2	16	0.44
(1,5428)	2:212:B:ALA:H	2:193:B:MET:HE2	17	0.44
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG12	5	0.44
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD23	14	0.44
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD23	15	0.44
(1,5267)	2:229:B:LEU:HA	2:244:B:LEU:HD23	20	0.44
(1,5191)	1:24:A:PHE:HE1	2:244:B:LEU:HD22	9	0.44
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG22	5	0.44
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG22	5	0.44
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG23	18	0.44
(1,4877)	2:247:B:TYR:HA	2:250:B:LEU:HD21	5	0.44
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD23	14	0.44
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD13	2	0.44
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD11	17	0.44
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	11	0.44
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD22	5	0.44
(1,4266)	1:14:A:LYS:HG3	1:11:A:GLN:HB3	19	0.44
(1,4234)	2:158:B:GLU:HG2	2:155:B:LYS:HD2	13	0.44
(1,3963)	1:32:A:ASP:HB3	1:33:A:MET:HG3	7	0.44
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	2	0.44
(1,3457)	2:241:B:LYS:HB2	2:238:B:ASN:HB2	1	0.44
(1,3453)	2:224:B:LYS:HB3	2:169:B:ASN:HB2	7	0.44
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	12	0.44
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	17	0.44
(1,3102)	2:193:B:MET:HG3	2:204:B:PRO:HD2	15	0.44
(1,3089)	2:187:B:LEU:HD13	2:188:B:ALA:HA	11	0.44
(1,2979)	1:18:A:LEU:HD13	2:244:B:LEU:HA	4	0.44
(1,2979)	1:18:A:LEU:HD12	2:244:B:LEU:HA	17	0.44
(1,2728)	2:231:B:LEU:HD23	2:155:B:LYS:HA	15	0.44
(1,2721)	1:4:A:LEU:HD23	1:20:A:SER:HA	8	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2369)	2:149:B:ILE:HD13	1:35:A:VAL:HA	3	0.44
(1,2235)	2:222:B:ASN:HB2	2:203:B:ILE:HD13	6	0.44
(1,2146)	2:163:B:PHE:HE2	2:232:B:ILE:HD13	20	0.44
(1,2024)	2:218:B:THR:HG21	2:180:B:CYS:H	2	0.44
(1,1991)	1:26:A:ILE:HD12	1:49:A:VAL:H	10	0.44
(1,1836)	1:19:A:THR:HG23	1:20:A:SER:H	20	0.44
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	14	0.44
(1,1733)	2:187:B:LEU:HD12	2:188:B:ALA:H	1	0.44
(1,1733)	2:187:B:LEU:HD23	2:188:B:ALA:H	13	0.44
(1,1643)	2:211:B:LYS:HE2	2:192:B:GLN:H	10	0.44
(1,1643)	2:195:B:ASN:HB3	2:192:B:GLN:H	11	0.44
(1,1643)	2:211:B:LYS:HE2	2:192:B:GLN:H	18	0.44
(1,1591)	2:225:B:TYR:HE2	1:23:A:GLU:H	10	0.44
(1,1588)	1:41:A:PHE:HE2	1:19:A:THR:H	12	0.44
(1,1540)	2:232:B:ILE:HG21	2:235:B:SER:H	7	0.44
(1,1523)	2:168:B:LEU:HD22	2:168:B:LEU:H	20	0.44
(1,1514)	2:181:B:ILE:HD13	2:244:B:LEU:H	15	0.44
(1,1503)	2:214:B:VAL:HG13	2:212:B:ALA:H	6	0.44
(1,1503)	2:214:B:VAL:HG11	2:212:B:ALA:H	11	0.44
(1,1489)	1:31:A:LYS:HG2	1:33:A:MET:H	13	0.44
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	8	0.44
(1,1295)	2:194:B:TYR:HE2	2:195:B:ASN:H	9	0.44
(1,1295)	2:194:B:TYR:HE2	2:195:B:ASN:H	14	0.44
(1,1286)	2:233:B:PHE:HD1	2:244:B:LEU:H	2	0.44
(1,1125)	2:162:B:THR:HG23	2:163:B:PHE:H	16	0.44
(1,1080)	2:144:B:GLU:HB3	2:143:B:ILE:H	2	0.44
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	15	0.44
(1,1038)	2:182:B:ARG:HG3	2:183:B:LEU:H	15	0.44
(1,816)	2:247:B:TYR:HE1	2:247:B:TYR:H	7	0.44
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	17	0.44
(1,619)	2:167:B:VAL:HG21	1:25:A:LEU:H	3	0.44
(1,619)	2:167:B:VAL:HG23	1:25:A:LEU:H	12	0.44
(1,616)	1:26:A:ILE:HD11	1:26:A:ILE:H	1	0.44
(1,616)	1:26:A:ILE:HD11	1:26:A:ILE:H	13	0.44
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	17	0.44
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	15	0.44
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	15	0.43
(1,6207)	1:5:A:GLY:H	2:243:B:TYR:HE2	19	0.43
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE1	20	0.43
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE1	6	0.43
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE1	10	0.43
(1,5853)	2:169:B:ASN:HB3	2:166:B:LEU:HD21	6	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5820)	2:183:B:LEU:HD11	2:218:B:THR:HB	8	0.43
(1,5820)	2:183:B:LEU:HD12	2:218:B:THR:HB	10	0.43
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB1	11	0.43
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE3	14	0.43
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE2	16	0.43
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE3	19	0.43
(1,5432)	2:195:B:ASN:H	2:196:B:ALA:HB2	19	0.43
(1,5426)	2:183:B:LEU:H	2:186:B:MET:HE2	11	0.43
(1,5389)	1:17:A:VAL:HG11	1:39:A:VAL:HG23	9	0.43
(1,5376)	1:39:A:VAL:HG13	1:17:A:VAL:HG12	3	0.43
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG22	4	0.43
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB3	8	0.43
(1,5303)	1:5:A:GLY:HA3	1:17:A:VAL:HG11	2	0.43
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD12	14	0.43
(1,5267)	2:229:B:LEU:HA	2:244:B:LEU:HD22	1	0.43
(1,5267)	2:229:B:LEU:HA	2:244:B:LEU:HD21	6	0.43
(1,5191)	1:24:A:PHE:HE1	2:244:B:LEU:HD23	3	0.43
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG23	10	0.43
(1,4989)	1:14:A:LYS:HE2	2:164:B:LEU:HD21	4	0.43
(1,4971)	2:157:B:GLN:HG2	2:154:B:LYS:HG3	19	0.43
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD13	2	0.43
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD13	12	0.43
(1,4957)	2:230:B:CYS:HB2	2:208:B:LEU:HD13	10	0.43
(1,4808)	2:214:B:VAL:H	2:213:B:LYS:HG3	16	0.43
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD11	19	0.43
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD12	19	0.43
(1,4679)	2:232:B:ILE:HG21	2:152:B:LEU:HD23	4	0.43
(1,4629)	2:226:B:ILE:HG13	2:229:B:LEU:HD22	10	0.43
(1,4629)	2:181:B:ILE:HB	2:229:B:LEU:HD21	12	0.43
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD12	18	0.43
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD23	18	0.43
(1,4391)	1:37:A:GLN:HE21	1:7:A:ILE:HG13	7	0.43
(1,4278)	1:17:A:VAL:HG23	1:23:A:GLU:HB2	16	0.43
(1,4262)	1:6:A:ILE:HG21	1:37:A:GLN:HB3	9	0.43
(1,3976)	1:34:A:LYS:HB2	1:37:A:GLN:HG2	2	0.43
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	16	0.43
(1,3742)	2:146:B:ARG:HG2	2:150:B:GLU:HG2	12	0.43
(1,3742)	2:146:B:ARG:HG3	2:150:B:GLU:HG2	16	0.43
(1,3739)	2:196:B:ALA:HB3	2:195:B:ASN:HB2	10	0.43
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	8	0.43
(1,3669)	2:248:B:THR:HB	2:245:B:GLU:HG2	3	0.43
(1,3529)	1:43:A:ASN:H	1:42:A:GLU:HG2	16	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2979)	2:227:B:ILE:HG22	2:231:B:LEU:HA	1	0.43
(1,2979)	1:18:A:LEU:HD11	2:244:B:LEU:HA	16	0.43
(1,2940)	1:7:A:ILE:HG23	1:9:A:GLU:HA	4	0.43
(1,2925)	2:188:B:ALA:HB1	2:184:B:ALA:HA	18	0.43
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	9	0.43
(1,2667)	2:161:B:ILE:HG12	2:224:B:LYS:HA	10	0.43
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	10	0.43
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD11	16	0.43
(1,2146)	2:163:B:PHE:HE1	2:232:B:ILE:HD12	15	0.43
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD11	17	0.43
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	11	0.43
(1,1965)	2:219:B:ILE:HG21	2:220:B:GLY:H	18	0.43
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	10	0.43
(1,1739)	2:219:B:ILE:HG21	2:222:B:ASN:H	4	0.43
(1,1733)	2:187:B:LEU:HD23	2:188:B:ALA:H	4	0.43
(1,1733)	2:187:B:LEU:HD12	2:188:B:ALA:H	14	0.43
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	6	0.43
(1,1674)	2:158:B:GLU:HG2	2:159:B:PHE:H	9	0.43
(1,1643)	2:195:B:ASN:HB3	2:192:B:GLN:H	15	0.43
(1,1529)	2:181:B:ILE:HD11	1:21:A:GLU:H	13	0.43
(1,1526)	1:7:A:ILE:HD13	1:33:A:MET:H	10	0.43
(1,1489)	1:29:A:ARG:HG3	1:33:A:MET:H	12	0.43
(1,1470)	2:184:B:ALA:HB3	2:231:B:LEU:H	5	0.43
(1,1470)	2:232:B:ILE:HB	2:231:B:LEU:H	20	0.43
(1,1463)	2:191:B:GLU:HB2	2:195:B:ASN:H	12	0.43
(1,1365)	2:223:B:ARG:HD3	2:224:B:LYS:H	18	0.43
(1,1168)	1:46:A:ILE:HD13	1:46:A:ILE:H	16	0.43
(1,1141)	2:214:B:VAL:HG23	2:209:B:LYS:H	3	0.43
(1,1141)	2:214:B:VAL:HG23	2:209:B:LYS:H	11	0.43
(1,1141)	2:214:B:VAL:HG22	2:209:B:LYS:H	18	0.43
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	7	0.43
(1,955)	2:154:B:LYS:HE2	2:154:B:LYS:H	2	0.43
(1,955)	2:154:B:LYS:HE2	2:154:B:LYS:H	4	0.43
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	19	0.43
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	18	0.43
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	2	0.43
(1,271)	1:49:A:VAL:HG11	1:48:A:ASN:H	3	0.43
(1,271)	1:49:A:VAL:HG12	1:48:A:ASN:H	3	0.43
(1,271)	1:49:A:VAL:HG13	1:48:A:ASN:H	3	0.43
(1,189)	1:6:A:ILE:HD11	1:7:A:ILE:H	17	0.43
(1,173)	1:10:A:ILE:HD13	1:10:A:ILE:H	12	0.43
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	3	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	1	0.42
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	9	0.42
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	12	0.42
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	18	0.42
(1,6207)	1:5:A:GLY:H	2:243:B:TYR:HE2	14	0.42
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE2	12	0.42
(1,6176)	2:230:B:CYS:HB2	2:194:B:TYR:HE1	10	0.42
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE1	5	0.42
(1,5701)	2:227:B:ILE:HG21	2:161:B:ILE:HG22	8	0.42
(1,5610)	2:205:B:ARG:HD3	2:203:B:ILE:HG23	4	0.42
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG21	5	0.42
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG21	9	0.42
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG22	20	0.42
(1,5542)	1:2:A:ASN:HA	1:1:A:MET:HE3	19	0.42
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE1	18	0.42
(1,5426)	2:183:B:LEU:H	2:186:B:MET:HE1	20	0.42
(1,5389)	1:17:A:VAL:HG12	1:39:A:VAL:HG21	13	0.42
(1,5361)	2:244:B:LEU:HG	1:18:A:LEU:HD11	19	0.42
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG13	19	0.42
(1,4971)	2:157:B:GLN:HG2	2:154:B:LYS:HG3	7	0.42
(1,4801)	2:214:B:VAL:H	2:213:B:LYS:HD3	17	0.42
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD13	11	0.42
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD13	7	0.42
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD13	17	0.42
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD13	18	0.42
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD23	18	0.42
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD12	17	0.42
(1,4629)	2:181:B:ILE:HB	2:229:B:LEU:HD22	2	0.42
(1,4629)	2:181:B:ILE:HB	2:229:B:LEU:HD21	19	0.42
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD12	14	0.42
(1,4560)	1:20:A:SER:HB3	1:3:A:ARG:HG2	9	0.42
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD23	11	0.42
(1,4391)	1:37:A:GLN:HE21	1:7:A:ILE:HG13	17	0.42
(1,4316)	2:208:B:LEU:H	2:205:B:ARG:HG3	11	0.42
(1,4302)	1:26:A:ILE:H	1:25:A:LEU:HD11	17	0.42
(1,3963)	1:32:A:ASP:HB3	1:33:A:MET:HG3	19	0.42
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	1	0.42
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	8	0.42
(1,3774)	1:35:A:VAL:HG22	1:9:A:GLU:HG2	6	0.42
(1,3774)	1:35:A:VAL:HG21	1:9:A:GLU:HG2	11	0.42
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	12	0.42
(1,3162)	2:177:B:ARG:H	2:177:B:ARG:HD2	13	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2979)	2:227:B:ILE:HG22	2:231:B:LEU:HA	9	0.42
(1,2940)	1:7:A:ILE:HG22	1:9:A:GLU:HA	15	0.42
(1,2728)	2:231:B:LEU:HD22	2:155:B:LYS:HA	20	0.42
(1,2719)	2:237:B:LEU:HD13	2:146:B:ARG:HA	5	0.42
(1,2300)	1:23:A:GLU:HG3	2:181:B:ILE:HD12	9	0.42
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD11	13	0.42
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	8	0.42
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD12	9	0.42
(1,2051)	2:205:B:ARG:HB3	2:209:B:LYS:H	1	0.42
(1,2051)	2:205:B:ARG:HB3	2:209:B:LYS:H	11	0.42
(1,1965)	2:219:B:ILE:HG21	2:220:B:GLY:H	7	0.42
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	4	0.42
(1,1946)	2:251:B:GLU:HG3	2:248:B:THR:H	6	0.42
(1,1906)	2:209:B:LYS:HG3	2:214:B:VAL:H	7	0.42
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	12	0.42
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	15	0.42
(1,1837)	1:4:A:LEU:HD12	1:20:A:SER:H	5	0.42
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	1	0.42
(1,1741)	2:170:B:VAL:HG21	1:23:A:GLU:H	5	0.42
(1,1674)	2:158:B:GLU:HG2	2:159:B:PHE:H	13	0.42
(1,1591)	1:24:A:PHE:HD1	1:23:A:GLU:H	16	0.42
(1,1529)	2:181:B:ILE:HD11	1:21:A:GLU:H	4	0.42
(1,1526)	1:7:A:ILE:HD13	1:33:A:MET:H	15	0.42
(1,1526)	1:7:A:ILE:HD13	1:33:A:MET:H	17	0.42
(1,1503)	2:214:B:VAL:HG12	2:212:B:ALA:H	15	0.42
(1,1489)	1:29:A:ARG:HG3	1:33:A:MET:H	3	0.42
(1,1470)	2:184:B:ALA:HB3	2:231:B:LEU:H	16	0.42
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	4	0.42
(1,1299)	2:246:B:TYR:HE1	1:21:A:GLU:H	2	0.42
(1,1295)	2:194:B:TYR:HE1	2:195:B:ASN:H	18	0.42
(1,1286)	2:233:B:PHE:HD1	2:244:B:LEU:H	3	0.42
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	16	0.42
(1,1201)	2:229:B:LEU:HD11	2:228:B:ALA:H	8	0.42
(1,1201)	2:156:B:LEU:HD13	2:228:B:ALA:H	11	0.42
(1,1167)	1:25:A:LEU:HB2	1:46:A:ILE:H	20	0.42
(1,1141)	2:214:B:VAL:HG22	2:209:B:LYS:H	1	0.42
(1,1125)	2:162:B:THR:HG21	2:163:B:PHE:H	4	0.42
(1,1078)	2:237:B:LEU:HB3	2:241:B:LYS:H	17	0.42
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	15	0.42
(1,616)	1:26:A:ILE:HD13	1:26:A:ILE:H	3	0.42
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	10	0.42
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	11	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,384)	2:194:B:TYR:HE2	2:194:B:TYR:H	15	0.42
(1,273)	1:49:A:VAL:HG11	1:50:A:ARG:H	14	0.42
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	2	0.42
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	7	0.42
(1,179)	1:27:A:ILE:HG13	1:29:A:ARG:H	8	0.42
(1,173)	1:10:A:ILE:HD13	1:10:A:ILE:H	3	0.42
(1,173)	1:10:A:ILE:HD12	1:10:A:ILE:H	7	0.42
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	17	0.42
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD1	5	0.41
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	2	0.41
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	17	0.41
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE1	3	0.41
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE1	6	0.41
(1,6184)	2:172:B:LYS:HB2	2:173:B:HIS:HD2	4	0.41
(1,6184)	2:209:B:LYS:HG3	2:215:B:HIS:HD2	12	0.41
(1,6184)	2:172:B:LYS:HB2	2:173:B:HIS:HD2	19	0.41
(1,6176)	2:230:B:CYS:HB2	2:194:B:TYR:HE1	2	0.41
(1,5948)	2:179:B:LEU:HA	2:182:B:ARG:HD3	6	0.41
(1,5852)	2:225:B:TYR:HE1	2:170:B:VAL:HG13	5	0.41
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG23	8	0.41
(1,5820)	2:183:B:LEU:HD11	2:218:B:THR:HB	13	0.41
(1,5820)	2:183:B:LEU:HD11	2:218:B:THR:HB	18	0.41
(1,5753)	2:166:B:LEU:HD13	2:228:B:ALA:HA	14	0.41
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG23	18	0.41
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE1	6	0.41
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE2	7	0.41
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE1	20	0.41
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE2	6	0.41
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE2	19	0.41
(1,5428)	1:2:A:ASN:H	1:1:A:MET:HE2	11	0.41
(1,5342)	2:164:B:LEU:HB2	2:162:B:THR:HG22	19	0.41
(1,5325)	1:14:A:LYS:HE2	1:16:A:VAL:HG22	11	0.41
(1,5315)	2:179:B:LEU:HB2	2:218:B:THR:HG23	7	0.41
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD11	2	0.41
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD12	6	0.41
(1,4989)	2:167:B:VAL:HB	2:164:B:LEU:HD22	10	0.41
(1,4978)	2:181:B:ILE:HG12	2:248:B:THR:HG21	4	0.41
(1,4971)	2:157:B:GLN:HG2	2:154:B:LYS:HG3	17	0.41
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD12	8	0.41
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD12	14	0.41
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD21	2	0.41
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD22	15	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4957)	2:230:B:CYS:HB2	2:208:B:LEU:HD12	18	0.41
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG22	19	0.41
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD23	19	0.41
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG22	13	0.41
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD23	12	0.41
(1,4801)	2:214:B:VAL:H	2:213:B:LYS:HD3	16	0.41
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD12	14	0.41
(1,4684)	2:232:B:ILE:HG22	2:237:B:LEU:HD22	11	0.41
(1,4643)	2:167:B:VAL:HG12	2:168:B:LEU:HG	10	0.41
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD11	3	0.41
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD12	13	0.41
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD12	18	0.41
(1,4577)	1:22:A:GLY:HA2	2:244:B:LEU:HD11	16	0.41
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD21	13	0.41
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD21	14	0.41
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD11	14	0.41
(1,4316)	2:208:B:LEU:H	2:205:B:ARG:HG3	9	0.41
(1,4278)	1:17:A:VAL:HG23	1:23:A:GLU:HB2	3	0.41
(1,4234)	2:158:B:GLU:HG2	2:155:B:LYS:HD2	12	0.41
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	15	0.41
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	20	0.41
(1,3978)	2:153:B:LYS:HD3	2:157:B:GLN:HG2	1	0.41
(1,3967)	2:193:B:MET:HG2	2:211:B:LYS:HB2	6	0.41
(1,3929)	2:228:B:ALA:HA	2:155:B:LYS:HB3	8	0.41
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	5	0.41
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	3	0.41
(1,3774)	1:35:A:VAL:HG21	1:9:A:GLU:HG2	2	0.41
(1,3757)	2:241:B:LYS:HG3	2:245:B:GLU:HG3	15	0.41
(1,3743)	2:149:B:ILE:HG12	2:147:B:GLU:HG2	4	0.41
(1,3669)	2:248:B:THR:HB	2:245:B:GLU:HG2	14	0.41
(1,3274)	2:203:B:ILE:HG13	2:223:B:ARG:HD3	20	0.41
(1,2713)	2:153:B:LYS:HG3	2:150:B:GLU:HA	17	0.41
(1,2455)	2:177:B:ARG:HG3	2:176:B:SER:HB2	15	0.41
(1,2369)	2:149:B:ILE:HD12	1:35:A:VAL:HA	7	0.41
(1,2369)	2:149:B:ILE:HD11	1:35:A:VAL:HA	10	0.41
(1,2329)	2:179:B:LEU:HD11	2:218:B:THR:HA	1	0.41
(1,2300)	2:177:B:ARG:HG2	2:181:B:ILE:HD13	5	0.41
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD11	11	0.41
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD12	1	0.41
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD13	18	0.41
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	19	0.41
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	13	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1674)	2:201:B:LYS:HE3	2:159:B:PHE:H	4	0.41
(1,1540)	2:232:B:ILE:HG22	2:235:B:SER:H	17	0.41
(1,1529)	2:181:B:ILE:HD12	1:21:A:GLU:H	15	0.41
(1,1523)	2:168:B:LEU:HD23	2:168:B:LEU:H	2	0.41
(1,1503)	2:214:B:VAL:HG12	2:212:B:ALA:H	5	0.41
(1,1470)	2:232:B:ILE:HB	2:231:B:LEU:H	8	0.41
(1,1470)	2:184:B:ALA:HB2	2:231:B:LEU:H	9	0.41
(1,1286)	2:233:B:PHE:HD1	2:244:B:LEU:H	4	0.41
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	17	0.41
(1,1198)	2:156:B:LEU:HD13	2:157:B:GLN:H	2	0.41
(1,1198)	2:156:B:LEU:HD12	2:157:B:GLN:H	5	0.41
(1,1198)	2:156:B:LEU:HD13	2:157:B:GLN:H	17	0.41
(1,1168)	1:46:A:ILE:HD13	1:46:A:ILE:H	12	0.41
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	11	0.41
(1,1141)	2:214:B:VAL:HG22	2:209:B:LYS:H	10	0.41
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	7	0.41
(1,1038)	2:182:B:ARG:HG3	2:183:B:LEU:H	16	0.41
(1,910)	2:170:B:VAL:HA	2:225:B:TYR:H	14	0.41
(1,674)	2:232:B:ILE:HG23	2:238:B:ASN:H	8	0.41
(1,616)	1:26:A:ILE:HD12	1:26:A:ILE:H	5	0.41
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	12	0.41
(1,384)	2:194:B:TYR:HE1	2:194:B:TYR:H	14	0.41
(1,271)	1:49:A:VAL:HG11	1:48:A:ASN:H	10	0.41
(1,271)	1:49:A:VAL:HG12	1:48:A:ASN:H	10	0.41
(1,271)	1:49:A:VAL:HG13	1:48:A:ASN:H	10	0.41
(1,269)	1:26:A:ILE:HG22	1:15:A:ALA:H	18	0.41
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	11	0.41
(1,189)	1:6:A:ILE:HD11	1:7:A:ILE:H	15	0.41
(1,179)	1:15:A:ALA:HB2	1:29:A:ARG:H	2	0.41
(1,179)	1:27:A:ILE:HG13	1:29:A:ARG:H	6	0.41
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	9	0.41
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	16	0.41
(1,7)	1:35:A:VAL:HG11	1:8:A:TYR:H	16	0.41
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	7	0.4
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	8	0.4
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	16	0.4
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE2	15	0.4
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE1	8	0.4
(1,5877)	2:237:B:LEU:HB2	2:236:B:ASN:HA	5	0.4
(1,5840)	2:204:B:PRO:HG2	2:196:B:ALA:HB2	12	0.4
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG21	4	0.4
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG23	10	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG23	13	0.4
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG22	10	0.4
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG23	12	0.4
(1,5432)	2:200:B:ASN:H	2:196:B:ALA:HB3	11	0.4
(1,5432)	2:195:B:ASN:H	2:196:B:ALA:HB3	14	0.4
(1,5361)	2:244:B:LEU:HG	1:18:A:LEU:HD13	1	0.4
(1,5361)	2:244:B:LEU:HG	1:18:A:LEU:HD11	5	0.4
(1,5325)	1:14:A:LYS:HE2	1:16:A:VAL:HG23	5	0.4
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB2	20	0.4
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD13	18	0.4
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD23	10	0.4
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG22	1	0.4
(1,5191)	1:24:A:PHE:HE1	2:244:B:LEU:HD21	15	0.4
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG23	19	0.4
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG23	11	0.4
(1,5052)	2:167:B:VAL:HG11	2:170:B:VAL:HG12	17	0.4
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD13	2	0.4
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG21	3	0.4
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG21	18	0.4
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG23	19	0.4
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD13	10	0.4
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD12	8	0.4
(1,4713)	2:144:B:GLU:H	2:239:B:LEU:HD22	12	0.4
(1,4679)	2:232:B:ILE:HG21	2:152:B:LEU:HD22	15	0.4
(1,4629)	2:181:B:ILE:HB	2:229:B:LEU:HD21	18	0.4
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD12	2	0.4
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD13	5	0.4
(1,4592)	2:142:B:ASP:HB2	2:143:B:ILE:HG13	18	0.4
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD21	16	0.4
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD23	7	0.4
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD22	4	0.4
(1,4278)	1:17:A:VAL:HG22	1:23:A:GLU:HB2	9	0.4
(1,4205)	2:246:B:TYR:HB3	2:249:B:MET:HG3	16	0.4
(1,3978)	2:153:B:LYS:HD3	2:157:B:GLN:HG2	11	0.4
(1,3978)	2:153:B:LYS:HD3	2:157:B:GLN:HG2	13	0.4
(1,3942)	1:34:A:LYS:HE3	1:37:A:GLN:HG2	17	0.4
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	14	0.4
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	2	0.4
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	13	0.4
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	17	0.4
(1,3774)	1:35:A:VAL:HG21	1:9:A:GLU:HG2	3	0.4
(1,3739)	2:196:B:ALA:HB3	2:195:B:ASN:HB2	20	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3716)	1:3:A:ARG:HD2	1:21:A:GLU:HG3	6	0.4
(1,3711)	2:210:B:LYS:HE2	2:207:B:GLU:HG2	19	0.4
(1,3609)	1:46:A:ILE:H	1:43:A:ASN:HB3	13	0.4
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG3	13	0.4
(1,3248)	2:192:B:GLN:HB2	2:190:B:ASP:HB2	8	0.4
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	16	0.4
(1,3102)	2:193:B:MET:HG3	2:204:B:PRO:HD2	6	0.4
(1,2940)	1:7:A:ILE:HG21	1:9:A:GLU:HA	8	0.4
(1,2621)	2:213:B:LYS:HE3	2:211:B:LYS:HA	1	0.4
(1,2300)	2:177:B:ARG:HG2	2:181:B:ILE:HD13	12	0.4
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD12	16	0.4
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD13	7	0.4
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD11	10	0.4
(1,2051)	2:205:B:ARG:HB3	2:209:B:LYS:H	12	0.4
(1,2051)	2:205:B:ARG:HB3	2:209:B:LYS:H	13	0.4
(1,2024)	2:218:B:THR:HG23	2:180:B:CYS:H	4	0.4
(1,2023)	1:16:A:VAL:HG23	1:9:A:GLU:H	19	0.4
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	6	0.4
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	18	0.4
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	16	0.4
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	11	0.4
(1,1739)	2:219:B:ILE:HG22	2:222:B:ASN:H	15	0.4
(1,1643)	2:195:B:ASN:HB3	2:192:B:GLN:H	2	0.4
(1,1589)	2:225:B:TYR:HE1	2:180:B:CYS:H	15	0.4
(1,1543)	1:17:A:VAL:HG13	1:9:A:GLU:H	12	0.4
(1,1543)	1:17:A:VAL:HG13	1:9:A:GLU:H	15	0.4
(1,1540)	2:232:B:ILE:HG21	2:235:B:SER:H	3	0.4
(1,1526)	1:7:A:ILE:HD11	1:33:A:MET:H	19	0.4
(1,1523)	2:168:B:LEU:HD22	2:168:B:LEU:H	19	0.4
(1,1503)	2:214:B:VAL:HG13	2:212:B:ALA:H	17	0.4
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	10	0.4
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	13	0.4
(1,1299)	2:246:B:TYR:HE1	1:21:A:GLU:H	17	0.4
(1,1295)	2:194:B:TYR:HE2	2:195:B:ASN:H	1	0.4
(1,1295)	2:194:B:TYR:HE2	2:195:B:ASN:H	10	0.4
(1,1198)	2:156:B:LEU:HD12	2:157:B:GLN:H	14	0.4
(1,1187)	2:156:B:LEU:HD22	2:163:B:PHE:H	15	0.4
(1,1168)	1:46:A:ILE:HD13	1:46:A:ILE:H	7	0.4
(1,1168)	1:46:A:ILE:HD13	1:46:A:ILE:H	18	0.4
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	20	0.4
(1,1080)	2:144:B:GLU:HB3	2:143:B:ILE:H	8	0.4
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	1	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1038)	2:182:B:ARG:HG3	2:183:B:LEU:H	7	0.4
(1,1038)	2:182:B:ARG:HG3	2:183:B:LEU:H	11	0.4
(1,957)	2:195:B:ASN:HB3	2:199:B:LYS:H	11	0.4
(1,619)	2:167:B:VAL:HG21	1:25:A:LEU:H	5	0.4
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	1	0.4
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	6	0.4
(1,278)	2:187:B:LEU:HD12	2:196:B:ALA:H	9	0.4
(1,270)	2:181:B:ILE:HG13	2:177:B:ARG:H	15	0.4
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	5	0.4
(1,173)	1:10:A:ILE:HD11	1:10:A:ILE:H	14	0.4
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	8	0.4
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD1	18	0.39
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	4	0.39
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	10	0.39
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	11	0.39
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	14	0.39
(1,6207)	1:5:A:GLY:H	2:243:B:TYR:HE2	20	0.39
(1,5870)	2:155:B:LYS:HG2	2:158:B:GLU:HG2	12	0.39
(1,5852)	2:225:B:TYR:HE2	2:170:B:VAL:HG13	9	0.39
(1,5840)	2:204:B:PRO:HG2	2:196:B:ALA:HB3	6	0.39
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG21	14	0.39
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG21	4	0.39
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG22	4	0.39
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG23	4	0.39
(1,5621)	2:185:B:LYS:HE3	2:181:B:ILE:HG23	3	0.39
(1,5610)	2:205:B:ARG:HD3	2:203:B:ILE:HG21	1	0.39
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE2	1	0.39
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE2	9	0.39
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE3	12	0.39
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE1	1	0.39
(1,5449)	2:207:B:GLU:H	2:203:B:ILE:HG21	16	0.39
(1,5432)	2:195:B:ASN:H	2:196:B:ALA:HB2	20	0.39
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB3	1	0.39
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD11	15	0.39
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD21	9	0.39
(1,5208)	1:5:A:GLY:HA2	1:19:A:THR:HG23	16	0.39
(1,5191)	1:24:A:PHE:HE2	2:244:B:LEU:HD21	18	0.39
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG22	20	0.39
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD11	18	0.39
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG21	9	0.39
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG22	3	0.39
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD11	19	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD13	12	0.39
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD21	8	0.39
(1,4643)	2:167:B:VAL:HG11	2:168:B:LEU:HG	1	0.39
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD13	11	0.39
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD22	17	0.39
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD23	1	0.39
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD22	17	0.39
(1,4266)	2:219:B:ILE:HG23	2:223:B:ARG:HB3	16	0.39
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD2	18	0.39
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	12	0.39
(1,3942)	1:34:A:LYS:HE3	1:37:A:GLN:HG2	16	0.39
(1,3919)	2:171:B:PRO:HA	2:172:B:LYS:HB2	11	0.39
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	8	0.39
(1,3877)	2:163:B:PHE:HE2	2:153:B:LYS:HB3	10	0.39
(1,3789)	1:26:A:ILE:HG23	1:14:A:LYS:HB3	7	0.39
(1,3774)	1:35:A:VAL:HG23	1:9:A:GLU:HG2	5	0.39
(1,3774)	1:35:A:VAL:HG22	1:9:A:GLU:HG2	12	0.39
(1,3725)	2:151:B:GLU:HB2	2:236:B:ASN:HB2	20	0.39
(1,3716)	2:148:B:ASP:HB3	2:144:B:GLU:HG3	5	0.39
(1,3457)	2:174:B:ARG:HG3	2:175:B:ASP:HB2	5	0.39
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	8	0.39
(1,3274)	2:203:B:ILE:HG13	2:223:B:ARG:HD3	5	0.39
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	15	0.39
(1,2369)	2:149:B:ILE:HD12	1:35:A:VAL:HA	12	0.39
(1,2300)	2:177:B:ARG:HG2	2:181:B:ILE:HD11	4	0.39
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD13	12	0.39
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	6	0.39
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	16	0.39
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	19	0.39
(1,2139)	2:219:B:ILE:H	2:219:B:ILE:HD13	3	0.39
(1,2051)	2:205:B:ARG:HB3	2:209:B:LYS:H	2	0.39
(1,1965)	2:219:B:ILE:HG23	2:220:B:GLY:H	17	0.39
(1,1907)	2:208:B:LEU:HB3	2:214:B:VAL:H	7	0.39
(1,1836)	1:19:A:THR:HG23	1:20:A:SER:H	14	0.39
(1,1674)	2:158:B:GLU:HG2	2:159:B:PHE:H	11	0.39
(1,1588)	2:243:B:TYR:HD2	1:19:A:THR:H	5	0.39
(1,1514)	2:181:B:ILE:HD11	2:244:B:LEU:H	6	0.39
(1,1443)	2:179:B:LEU:HB2	2:176:B:SER:H	3	0.39
(1,1413)	1:20:A:SER:HB3	1:3:A:ARG:HE	4	0.39
(1,1286)	2:233:B:PHE:HD1	2:244:B:LEU:H	13	0.39
(1,1198)	2:156:B:LEU:HD11	2:157:B:GLN:H	15	0.39
(1,1198)	2:156:B:LEU:HD11	2:157:B:GLN:H	19	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1156)	2:239:B:LEU:HB2	2:143:B:ILE:H	7	0.39
(1,1141)	2:214:B:VAL:HG23	2:209:B:LYS:H	14	0.39
(1,1141)	2:214:B:VAL:HG23	2:209:B:LYS:H	19	0.39
(1,1132)	2:164:B:LEU:HD21	2:164:B:LEU:H	14	0.39
(1,1132)	2:164:B:LEU:HD22	2:164:B:LEU:H	17	0.39
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	14	0.39
(1,1038)	2:182:B:ARG:HG3	2:183:B:LEU:H	13	0.39
(1,971)	2:210:B:LYS:HE3	2:211:B:LYS:H	3	0.39
(1,957)	2:195:B:ASN:HB3	2:199:B:LYS:H	6	0.39
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	5	0.39
(1,631)	2:197:B:LEU:HD11	2:197:B:LEU:H	15	0.39
(1,616)	1:26:A:ILE:HD13	1:26:A:ILE:H	7	0.39
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	12	0.39
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	5	0.39
(1,388)	1:24:A:PHE:HD1	1:25:A:LEU:H	8	0.39
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	5	0.39
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	19	0.39
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	19	0.38
(1,6236)	1:6:A:ILE:HG22	1:8:A:TYR:HE2	11	0.38
(1,6227)	1:6:A:ILE:HB	1:8:A:TYR:HE1	8	0.38
(1,6207)	1:5:A:GLY:H	2:243:B:TYR:HE1	17	0.38
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE2	2	0.38
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE2	13	0.38
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE1	17	0.38
(1,5914)	1:18:A:LEU:HD21	2:240:B:SER:HB2	13	0.38
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	6	0.38
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	20	0.38
(1,5853)	2:169:B:ASN:HB3	2:166:B:LEU:HD23	3	0.38
(1,5721)	2:228:B:ALA:H	2:203:B:ILE:HD11	9	0.38
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG21	17	0.38
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG22	17	0.38
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG23	17	0.38
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB1	14	0.38
(1,5542)	2:197:B:LEU:HA	2:198:B:MET:HE2	5	0.38
(1,5526)	1:38:A:GLN:HA	1:39:A:VAL:HG13	8	0.38
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE3	1	0.38
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE2	11	0.38
(1,5449)	2:207:B:GLU:H	2:203:B:ILE:HG23	7	0.38
(1,5428)	2:212:B:ALA:H	2:193:B:MET:HE1	2	0.38
(1,5361)	2:244:B:LEU:HG	1:18:A:LEU:HD11	9	0.38
(1,5325)	1:14:A:LYS:HE2	1:16:A:VAL:HG21	2	0.38
(1,5325)	1:14:A:LYS:HE2	1:16:A:VAL:HG22	13	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5315)	2:183:B:LEU:HB2	2:218:B:THR:HG23	11	0.38
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG11	1	0.38
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD23	4	0.38
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG22	3	0.38
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD22	18	0.38
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG22	10	0.38
(1,4994)	1:7:A:ILE:HB	1:35:A:VAL:HG23	16	0.38
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD23	9	0.38
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD22	17	0.38
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG23	1	0.38
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG21	14	0.38
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG22	16	0.38
(1,4808)	2:214:B:VAL:H	2:213:B:LYS:HG2	8	0.38
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD11	17	0.38
(1,4786)	2:159:B:PHE:H	2:231:B:LEU:HD23	17	0.38
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD11	9	0.38
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD11	2	0.38
(1,4684)	2:149:B:ILE:HD13	2:237:B:LEU:HD22	13	0.38
(1,4643)	2:167:B:VAL:HG11	2:168:B:LEU:HG	7	0.38
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD13	13	0.38
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD11	17	0.38
(1,4592)	2:142:B:ASP:HB2	2:143:B:ILE:HG13	1	0.38
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD22	19	0.38
(1,4545)	2:213:B:LYS:HE2	2:213:B:LYS:HB3	5	0.38
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD21	8	0.38
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD23	14	0.38
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD23	8	0.38
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD13	5	0.38
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD11	15	0.38
(1,4278)	1:17:A:VAL:HG22	1:23:A:GLU:HB2	18	0.38
(1,4266)	1:14:A:LYS:HG3	1:11:A:GLN:HB3	12	0.38
(1,4261)	1:34:A:LYS:HG2	1:37:A:GLN:HB2	11	0.38
(1,4020)	2:149:B:ILE:HG23	1:9:A:GLU:HB2	1	0.38
(1,4005)	2:143:B:ILE:HG23	1:37:A:GLN:HG3	9	0.38
(1,3929)	2:228:B:ALA:HA	2:155:B:LYS:HB3	13	0.38
(1,3710)	2:146:B:ARG:HD2	2:150:B:GLU:HG2	3	0.38
(1,3697)	2:207:B:GLU:HA	2:207:B:GLU:HG3	12	0.38
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	9	0.38
(1,3319)	2:233:B:PHE:H	2:185:B:LYS:HE2	11	0.38
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	7	0.38
(1,2979)	2:227:B:ILE:HG22	2:231:B:LEU:HA	18	0.38
(1,2932)	1:39:A:VAL:HG13	1:38:A:GLN:HA	8	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2925)	2:188:B:ALA:HB1	2:184:B:ALA:HA	9	0.38
(1,2925)	2:188:B:ALA:HB3	2:184:B:ALA:HA	12	0.38
(1,2728)	2:231:B:LEU:HD21	2:155:B:LYS:HA	11	0.38
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	11	0.38
(1,2413)	1:9:A:GLU:H	1:7:A:ILE:HA	18	0.38
(1,2369)	2:149:B:ILE:HD13	1:35:A:VAL:HA	4	0.38
(1,2369)	2:149:B:ILE:HD13	1:35:A:VAL:HA	15	0.38
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD11	4	0.38
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD11	17	0.38
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD11	7	0.38
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD12	10	0.38
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	20	0.38
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	17	0.38
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	3	0.38
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	13	0.38
(1,1733)	2:187:B:LEU:HD22	2:188:B:ALA:H	20	0.38
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	16	0.38
(1,1530)	1:35:A:VAL:HG23	1:9:A:GLU:H	7	0.38
(1,1530)	1:15:A:ALA:HB3	1:9:A:GLU:H	16	0.38
(1,1523)	2:168:B:LEU:HD22	2:168:B:LEU:H	8	0.38
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	14	0.38
(1,1413)	1:20:A:SER:HB3	1:3:A:ARG:HE	19	0.38
(1,1201)	2:156:B:LEU:HD11	2:228:B:ALA:H	17	0.38
(1,1201)	2:231:B:LEU:HD23	2:228:B:ALA:H	18	0.38
(1,1198)	2:156:B:LEU:HD11	2:157:B:GLN:H	6	0.38
(1,1198)	2:156:B:LEU:HD12	2:157:B:GLN:H	7	0.38
(1,1198)	2:156:B:LEU:HD13	2:157:B:GLN:H	10	0.38
(1,1198)	2:156:B:LEU:HD11	2:157:B:GLN:H	16	0.38
(1,1168)	1:46:A:ILE:HD12	1:46:A:ILE:H	1	0.38
(1,1168)	1:46:A:ILE:HD12	1:46:A:ILE:H	15	0.38
(1,1168)	1:46:A:ILE:HD11	1:46:A:ILE:H	17	0.38
(1,1168)	1:46:A:ILE:HD12	1:46:A:ILE:H	19	0.38
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	4	0.38
(1,1141)	2:214:B:VAL:HG22	2:209:B:LYS:H	6	0.38
(1,1045)	2:171:B:PRO:HB3	2:181:B:ILE:H	10	0.38
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	9	0.38
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	13	0.38
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	7	0.38
(1,278)	2:187:B:LEU:HD11	2:196:B:ALA:H	11	0.38
(1,278)	2:187:B:LEU:HD11	2:196:B:ALA:H	13	0.38
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	20	0.38
(1,179)	1:15:A:ALA:HB3	1:29:A:ARG:H	18	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,173)	1:10:A:ILE:HD11	1:10:A:ILE:H	4	0.38
(1,173)	1:10:A:ILE:HD13	1:10:A:ILE:H	11	0.38
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	6	0.38
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	7	0.38
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	13	0.38
(1,6256)	2:149:B:ILE:HB	1:8:A:TYR:HD1	10	0.37
(1,6045)	2:166:B:LEU:HB2	2:225:B:TYR:HD1	13	0.37
(1,6042)	2:161:B:ILE:HD11	2:159:B:PHE:HD1	14	0.37
(1,5852)	2:225:B:TYR:HE2	2:170:B:VAL:HG11	11	0.37
(1,5840)	2:204:B:PRO:HG2	2:196:B:ALA:HB3	14	0.37
(1,5820)	2:219:B:ILE:HG12	2:218:B:THR:HB	7	0.37
(1,5820)	2:219:B:ILE:HG12	2:218:B:THR:HB	9	0.37
(1,5769)	2:211:B:LYS:HD3	2:212:B:ALA:HA	6	0.37
(1,5769)	2:211:B:LYS:HD3	2:212:B:ALA:HA	20	0.37
(1,5721)	2:220:B:GLY:H	2:203:B:ILE:HD11	8	0.37
(1,5721)	2:228:B:ALA:H	2:203:B:ILE:HD11	12	0.37
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG22	6	0.37
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG23	12	0.37
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG21	18	0.37
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG22	18	0.37
(1,5628)	2:142:B:ASP:HB3	2:143:B:ILE:HG23	18	0.37
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG21	16	0.37
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB2	13	0.37
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG22	10	0.37
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG22	1	0.37
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG22	4	0.37
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG22	14	0.37
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG22	19	0.37
(1,5432)	2:195:B:ASN:H	2:196:B:ALA:HB1	13	0.37
(1,5428)	2:212:B:ALA:H	2:193:B:MET:HE1	5	0.37
(1,5389)	1:17:A:VAL:HG11	1:39:A:VAL:HG22	18	0.37
(1,5372)	1:26:A:ILE:HD12	2:167:B:VAL:HG12	1	0.37
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB3	10	0.37
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD13	16	0.37
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD11	11	0.37
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD12	12	0.37
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG21	12	0.37
(1,5052)	2:167:B:VAL:HG11	2:170:B:VAL:HG12	16	0.37
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD12	9	0.37
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD23	3	0.37
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG22	8	0.37
(1,4838)	2:178:B:GLN:HE21	2:248:B:THR:HG21	11	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD22	19	0.37
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD11	14	0.37
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD12	16	0.37
(1,4808)	2:214:B:VAL:H	2:213:B:LYS:HG3	7	0.37
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD12	15	0.37
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD13	20	0.37
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD12	16	0.37
(1,4770)	2:247:B:TYR:H	2:250:B:LEU:HD23	9	0.37
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD22	2	0.37
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD23	11	0.37
(1,4643)	2:167:B:VAL:HG13	2:168:B:LEU:HG	2	0.37
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD12	15	0.37
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD11	10	0.37
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD22	2	0.37
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD22	12	0.37
(1,4391)	1:37:A:GLN:HE21	1:7:A:ILE:HG13	16	0.37
(1,4316)	2:180:B:CYS:H	2:177:B:ARG:HG2	6	0.37
(1,4234)	2:158:B:GLU:HG2	2:155:B:LYS:HD2	17	0.37
(1,3978)	2:153:B:LYS:HD3	2:157:B:GLN:HG2	2	0.37
(1,3919)	1:9:A:GLU:HA	1:16:A:VAL:HB	4	0.37
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	1	0.37
(1,3774)	1:35:A:VAL:HG23	1:9:A:GLU:HG2	10	0.37
(1,3529)	1:43:A:ASN:H	1:42:A:GLU:HG2	1	0.37
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	9	0.37
(1,2979)	2:227:B:ILE:HG22	2:231:B:LEU:HA	15	0.37
(1,2896)	2:166:B:LEU:HB3	1:24:A:PHE:HA	15	0.37
(1,2728)	2:231:B:LEU:HD23	2:155:B:LYS:HA	17	0.37
(1,2714)	2:232:B:ILE:HG12	2:241:B:LYS:HA	15	0.37
(1,2621)	2:211:B:LYS:HE3	2:211:B:LYS:HA	3	0.37
(1,2564)	1:33:A:MET:H	1:31:A:LYS:HA	4	0.37
(1,2564)	1:33:A:MET:H	1:31:A:LYS:HA	19	0.37
(1,2422)	1:24:A:PHE:HD1	2:225:B:TYR:HA	1	0.37
(1,2422)	2:225:B:TYR:HE2	2:225:B:TYR:HA	9	0.37
(1,2300)	1:23:A:GLU:HG3	2:181:B:ILE:HD13	3	0.37
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD11	2	0.37
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	17	0.37
(1,2146)	2:163:B:PHE:HE1	2:232:B:ILE:HD12	8	0.37
(1,2146)	2:163:B:PHE:HE2	2:232:B:ILE:HD12	9	0.37
(1,2146)	2:163:B:PHE:HE2	2:232:B:ILE:HD11	12	0.37
(1,2139)	2:219:B:ILE:H	2:219:B:ILE:HD11	7	0.37
(1,2139)	2:159:B:PHE:HD1	2:161:B:ILE:HD11	14	0.37
(1,2116)	2:143:B:ILE:H	2:143:B:ILE:HD12	20	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD12	5	0.37
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	7	0.37
(1,1882)	2:209:B:LYS:HE2	2:214:B:VAL:H	20	0.37
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	6	0.37
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	15	0.37
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	19	0.37
(1,1733)	2:187:B:LEU:HD22	2:188:B:ALA:H	3	0.37
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	1	0.37
(1,1643)	2:195:B:ASN:HB3	2:192:B:GLN:H	1	0.37
(1,1643)	2:195:B:ASN:HB3	2:192:B:GLN:H	17	0.37
(1,1534)	2:156:B:LEU:HD21	2:162:B:THR:H	13	0.37
(1,1530)	1:35:A:VAL:HG23	1:9:A:GLU:H	8	0.37
(1,1521)	1:7:A:ILE:HG22	1:37:A:GLN:H	7	0.37
(1,1519)	2:166:B:LEU:HB2	2:165:B:ASP:H	12	0.37
(1,1489)	1:31:A:LYS:HG2	1:33:A:MET:H	18	0.37
(1,1295)	2:194:B:TYR:HE1	2:195:B:ASN:H	8	0.37
(1,1198)	2:156:B:LEU:HD12	2:157:B:GLN:H	3	0.37
(1,1198)	2:156:B:LEU:HD12	2:157:B:GLN:H	11	0.37
(1,1132)	2:164:B:LEU:HD22	2:164:B:LEU:H	2	0.37
(1,1080)	2:144:B:GLU:HB3	2:143:B:ILE:H	13	0.37
(1,1038)	2:182:B:ARG:HG3	2:183:B:LEU:H	6	0.37
(1,957)	2:195:B:ASN:HB3	2:199:B:LYS:H	15	0.37
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	7	0.37
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	12	0.37
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	18	0.37
(1,679)	2:231:B:LEU:HD21	2:158:B:GLU:H	18	0.37
(1,626)	2:214:B:VAL:HG12	2:215:B:HIS:H	7	0.37
(1,619)	2:167:B:VAL:HG22	1:25:A:LEU:H	11	0.37
(1,619)	2:167:B:VAL:HG22	1:25:A:LEU:H	19	0.37
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	2	0.37
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	3	0.37
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	14	0.37
(1,189)	1:6:A:ILE:HD13	1:7:A:ILE:H	3	0.37
(1,179)	1:15:A:ALA:HB3	1:29:A:ARG:H	7	0.37
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	1	0.37
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	7	0.37
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	11	0.37
(1,173)	1:10:A:ILE:HD11	1:10:A:ILE:H	1	0.37
(1,173)	1:10:A:ILE:HD12	1:10:A:ILE:H	6	0.37
(1,173)	1:10:A:ILE:HD12	1:10:A:ILE:H	9	0.37
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	14	0.37
(1,6251)	1:14:A:LYS:HD3	1:47:A:TYR:HD1	6	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6207)	1:5:A:GLY:H	2:243:B:TYR:HE2	5	0.36
(1,6184)	2:172:B:LYS:HB2	2:173:B:HIS:HD2	9	0.36
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE2	1	0.36
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE1	18	0.36
(1,5852)	2:225:B:TYR:HE1	2:170:B:VAL:HG11	14	0.36
(1,5852)	2:225:B:TYR:HE1	2:170:B:VAL:HG11	18	0.36
(1,5852)	2:225:B:TYR:HE1	2:170:B:VAL:HG13	19	0.36
(1,5840)	2:204:B:PRO:HG2	2:196:B:ALA:HB2	2	0.36
(1,5753)	2:166:B:LEU:HD12	2:228:B:ALA:HA	16	0.36
(1,5629)	2:150:B:GLU:HG2	2:149:B:ILE:HG23	12	0.36
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB3	8	0.36
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG21	6	0.36
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE2	3	0.36
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE3	20	0.36
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG22	8	0.36
(1,5432)	2:195:B:ASN:H	2:196:B:ALA:HB2	2	0.36
(1,5372)	1:26:A:ILE:HD13	2:167:B:VAL:HG13	16	0.36
(1,5315)	2:226:B:ILE:HG13	2:218:B:THR:HG21	3	0.36
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD11	9	0.36
(1,5267)	2:229:B:LEU:HA	2:244:B:LEU:HD22	5	0.36
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD23	18	0.36
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG21	17	0.36
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG22	11	0.36
(1,5111)	2:146:B:ARG:H	1:35:A:VAL:HG11	19	0.36
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD13	13	0.36
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD11	3	0.36
(1,4957)	2:230:B:CYS:HB2	2:208:B:LEU:HD13	3	0.36
(1,4957)	2:230:B:CYS:HB2	2:208:B:LEU:HD11	14	0.36
(1,4893)	2:210:B:LYS:HA	2:209:B:LYS:HG3	16	0.36
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG21	4	0.36
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG21	20	0.36
(1,4877)	2:247:B:TYR:HA	2:250:B:LEU:HD22	6	0.36
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD12	3	0.36
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD11	17	0.36
(1,4801)	2:214:B:VAL:H	2:213:B:LYS:HD3	19	0.36
(1,4786)	2:159:B:PHE:H	2:231:B:LEU:HD21	20	0.36
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD11	1	0.36
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD13	14	0.36
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD13	12	0.36
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	12	0.36
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD22	3	0.36
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD21	10	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD21	3	0.36
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD21	15	0.36
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD21	6	0.36
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD11	10	0.36
(1,4235)	2:151:B:GLU:HG3	2:154:B:LYS:HD3	15	0.36
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	8	0.36
(1,4005)	2:143:B:ILE:HG21	1:37:A:GLN:HG3	4	0.36
(1,3963)	1:32:A:ASP:HB3	1:33:A:MET:HG3	9	0.36
(1,3775)	1:16:A:VAL:HG23	1:9:A:GLU:HG2	19	0.36
(1,3774)	1:35:A:VAL:HG21	1:9:A:GLU:HG2	15	0.36
(1,3747)	2:154:B:LYS:HD3	2:151:B:GLU:HG3	15	0.36
(1,3739)	2:196:B:ALA:HB1	2:195:B:ASN:HB2	3	0.36
(1,3730)	2:177:B:ARG:HB3	1:23:A:GLU:HG2	5	0.36
(1,3457)	2:174:B:ARG:HG2	2:175:B:ASP:HB2	9	0.36
(1,3438)	2:189:B:GLU:HG3	2:185:B:LYS:HE3	11	0.36
(1,3248)	2:186:B:MET:HB3	2:190:B:ASP:HB2	10	0.36
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	9	0.36
(1,2979)	1:18:A:LEU:HD11	2:244:B:LEU:HA	7	0.36
(1,2925)	2:188:B:ALA:HB3	2:184:B:ALA:HA	2	0.36
(1,2896)	2:166:B:LEU:HB3	1:24:A:PHE:HA	8	0.36
(1,2803)	2:169:B:ASN:HD22	2:166:B:LEU:HA	7	0.36
(1,2719)	2:237:B:LEU:HD13	2:146:B:ARG:HA	14	0.36
(1,2564)	1:33:A:MET:H	1:31:A:LYS:HA	14	0.36
(1,2421)	2:194:B:TYR:HE1	2:194:B:TYR:HA	2	0.36
(1,2421)	2:194:B:TYR:HE2	2:194:B:TYR:HA	17	0.36
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	18	0.36
(1,2139)	2:219:B:ILE:H	2:219:B:ILE:HD11	18	0.36
(1,2139)	2:219:B:ILE:H	2:219:B:ILE:HD12	19	0.36
(1,2024)	2:218:B:THR:HG21	2:180:B:CYS:H	5	0.36
(1,2023)	1:16:A:VAL:HG21	1:9:A:GLU:H	17	0.36
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	16	0.36
(1,1965)	2:219:B:ILE:HG23	2:220:B:GLY:H	14	0.36
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	8	0.36
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	1	0.36
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	1	0.36
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	8	0.36
(1,1741)	2:170:B:VAL:HG23	1:23:A:GLU:H	14	0.36
(1,1739)	2:219:B:ILE:HG22	2:222:B:ASN:H	3	0.36
(1,1643)	2:195:B:ASN:HB3	2:192:B:GLN:H	3	0.36
(1,1540)	2:232:B:ILE:HG22	2:235:B:SER:H	4	0.36
(1,1526)	1:7:A:ILE:HD11	1:33:A:MET:H	11	0.36
(1,1513)	2:227:B:ILE:HD12	2:224:B:LYS:H	9	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1513)	2:227:B:ILE:HD12	2:224:B:LYS:H	18	0.36
(1,1489)	1:31:A:LYS:HG2	1:33:A:MET:H	9	0.36
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	9	0.36
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	12	0.36
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	19	0.36
(1,1295)	2:194:B:TYR:HE1	2:195:B:ASN:H	11	0.36
(1,1295)	2:194:B:TYR:HE1	2:195:B:ASN:H	15	0.36
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	20	0.36
(1,1198)	2:156:B:LEU:HD13	2:157:B:GLN:H	1	0.36
(1,1198)	2:156:B:LEU:HD13	2:157:B:GLN:H	13	0.36
(1,1168)	1:46:A:ILE:HD11	1:46:A:ILE:H	6	0.36
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	16	0.36
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	20	0.36
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	9	0.36
(1,971)	2:210:B:LYS:HE2	2:211:B:LYS:H	15	0.36
(1,957)	2:195:B:ASN:HB3	2:199:B:LYS:H	19	0.36
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	11	0.36
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	20	0.36
(1,393)	1:24:A:PHE:HD1	2:170:B:VAL:H	5	0.36
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	10	0.36
(1,179)	1:15:A:ALA:HB1	1:29:A:ARG:H	12	0.36
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	3	0.36
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	13	0.36
(1,172)	1:35:A:VAL:HG11	2:146:B:ARG:H	19	0.36
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	4	0.36
(1,7)	1:35:A:VAL:HG13	1:8:A:TYR:H	4	0.36
(1,6236)	1:6:A:ILE:HG21	1:8:A:TYR:HE1	20	0.35
(1,6151)	1:29:A:ARG:H	1:47:A:TYR:HE1	18	0.35
(1,6042)	2:161:B:ILE:HD12	2:159:B:PHE:HD1	12	0.35
(1,5870)	2:155:B:LYS:HG2	2:158:B:GLU:HG2	1	0.35
(1,5853)	2:169:B:ASN:HB3	2:166:B:LEU:HD21	7	0.35
(1,5852)	2:225:B:TYR:HE2	2:170:B:VAL:HG11	1	0.35
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG22	2	0.35
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG21	16	0.35
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE1	13	0.35
(1,5500)	2:225:B:TYR:HD1	2:226:B:ILE:HG22	15	0.35
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE2	4	0.35
(1,5361)	2:244:B:LEU:HG	1:18:A:LEU:HD11	20	0.35
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB2	9	0.35
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD12	3	0.35
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD11	15	0.35
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG22	2	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4971)	2:157:B:GLN:HG2	2:154:B:LYS:HG3	15	0.35
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD11	19	0.35
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD12	7	0.35
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD23	14	0.35
(1,4893)	2:154:B:LYS:HA	2:154:B:LYS:HG3	5	0.35
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG22	2	0.35
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG23	17	0.35
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD23	2	0.35
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD23	20	0.35
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD11	13	0.35
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD13	11	0.35
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD12	15	0.35
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD12	15	0.35
(1,4770)	2:247:B:TYR:H	2:250:B:LEU:HD21	15	0.35
(1,4713)	2:144:B:GLU:H	2:239:B:LEU:HD23	5	0.35
(1,4684)	2:232:B:ILE:HG23	2:237:B:LEU:HD23	7	0.35
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD12	14	0.35
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD12	19	0.35
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD12	20	0.35
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD13	9	0.35
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	9	0.35
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD23	6	0.35
(1,4401)	2:164:B:LEU:H	2:156:B:LEU:HD21	18	0.35
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD21	12	0.35
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD12	2	0.35
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD13	18	0.35
(1,4278)	1:17:A:VAL:HG22	1:23:A:GLU:HB2	1	0.35
(1,4278)	1:17:A:VAL:HG22	1:23:A:GLU:HB2	7	0.35
(1,4262)	1:6:A:ILE:HG23	1:37:A:GLN:HB3	1	0.35
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD2	10	0.35
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	18	0.35
(1,3789)	1:26:A:ILE:HG22	1:14:A:LYS:HB3	14	0.35
(1,3789)	1:26:A:ILE:HG23	1:14:A:LYS:HB3	19	0.35
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	9	0.35
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	19	0.35
(1,3743)	2:149:B:ILE:HG12	2:150:B:GLU:HG2	11	0.35
(1,3710)	1:28:A:ARG:HD2	1:44:A:GLU:HG2	15	0.35
(1,3697)	2:150:B:GLU:HA	2:150:B:GLU:HG3	7	0.35
(1,3697)	2:207:B:GLU:HA	2:207:B:GLU:HG3	8	0.35
(1,3242)	1:44:A:GLU:HG2	1:28:A:ARG:HD2	15	0.35
(1,3102)	2:193:B:MET:HG3	2:204:B:PRO:HD2	1	0.35
(1,2940)	1:7:A:ILE:HG22	1:9:A:GLU:HA	6	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2925)	2:188:B:ALA:HB3	2:184:B:ALA:HA	11	0.35
(1,2896)	2:166:B:LEU:HB3	1:24:A:PHE:HA	18	0.35
(1,2889)	2:186:B:MET:HB3	2:183:B:LEU:HA	20	0.35
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	18	0.35
(1,2339)	2:228:B:ALA:HB2	2:227:B:ILE:HA	14	0.35
(1,2300)	2:177:B:ARG:HG2	2:181:B:ILE:HD11	8	0.35
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD12	10	0.35
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD11	4	0.35
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD12	17	0.35
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	5	0.35
(1,2180)	1:41:A:PHE:HA	1:27:A:ILE:HD12	20	0.35
(1,2139)	2:159:B:PHE:HD1	2:161:B:ILE:HD12	12	0.35
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD12	6	0.35
(1,2002)	2:155:B:LYS:HD2	2:158:B:GLU:H	5	0.35
(1,1733)	2:187:B:LEU:HD21	2:188:B:ALA:H	8	0.35
(1,1733)	2:187:B:LEU:HD13	2:188:B:ALA:H	11	0.35
(1,1733)	2:187:B:LEU:HD23	2:188:B:ALA:H	16	0.35
(1,1733)	2:187:B:LEU:HD22	2:188:B:ALA:H	19	0.35
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	19	0.35
(1,1678)	2:202:B:ASN:HB2	2:200:B:ASN:HD21	17	0.35
(1,1591)	1:24:A:PHE:HD1	1:23:A:GLU:H	15	0.35
(1,1543)	1:17:A:VAL:HG12	1:9:A:GLU:H	14	0.35
(1,1540)	2:232:B:ILE:HG21	2:235:B:SER:H	8	0.35
(1,1530)	1:35:A:VAL:HG22	1:9:A:GLU:H	4	0.35
(1,1526)	1:7:A:ILE:HD12	1:33:A:MET:H	9	0.35
(1,1526)	1:7:A:ILE:HD11	1:33:A:MET:H	16	0.35
(1,1514)	2:181:B:ILE:HD11	2:244:B:LEU:H	12	0.35
(1,1503)	2:214:B:VAL:HG11	2:212:B:ALA:H	8	0.35
(1,1503)	2:214:B:VAL:HG12	2:212:B:ALA:H	12	0.35
(1,1470)	2:184:B:ALA:HB2	2:231:B:LEU:H	4	0.35
(1,1413)	1:20:A:SER:HB3	1:3:A:ARG:HE	14	0.35
(1,1365)	2:223:B:ARG:HD2	2:224:B:LYS:H	12	0.35
(1,1295)	2:194:B:TYR:HE1	2:195:B:ASN:H	17	0.35
(1,1286)	2:233:B:PHE:HD2	2:244:B:LEU:H	10	0.35
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	4	0.35
(1,1198)	2:156:B:LEU:HD12	2:157:B:GLN:H	20	0.35
(1,1168)	1:46:A:ILE:HD12	1:46:A:ILE:H	4	0.35
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	17	0.35
(1,1049)	2:242:B:ARG:HG3	2:243:B:TYR:H	15	0.35
(1,1045)	2:182:B:ARG:HG3	2:181:B:ILE:H	6	0.35
(1,641)	1:49:A:VAL:HG11	1:49:A:VAL:H	19	0.35
(1,626)	2:214:B:VAL:HG12	2:215:B:HIS:H	1	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,626)	2:214:B:VAL:HG13	2:215:B:HIS:H	18	0.35
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	7	0.35
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	10	0.35
(1,619)	2:167:B:VAL:HG21	1:25:A:LEU:H	13	0.35
(1,605)	1:23:A:GLU:HG2	2:170:B:VAL:H	13	0.35
(1,555)	2:193:B:MET:HB3	2:194:B:TYR:H	17	0.35
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	9	0.35
(1,402)	1:19:A:THR:HB	1:6:A:ILE:H	20	0.35
(1,384)	2:234:B:ARG:HE	2:194:B:TYR:H	1	0.35
(1,347)	2:158:B:GLU:H	2:155:B:LYS:H	7	0.35
(1,271)	1:49:A:VAL:HG11	1:48:A:ASN:H	14	0.35
(1,271)	1:49:A:VAL:HG12	1:48:A:ASN:H	14	0.35
(1,271)	1:49:A:VAL:HG13	1:48:A:ASN:H	14	0.35
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	3	0.35
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	19	0.35
(1,189)	1:6:A:ILE:HD11	1:7:A:ILE:H	7	0.35
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	20	0.35
(1,173)	1:10:A:ILE:HD12	1:10:A:ILE:H	8	0.35
(1,173)	1:10:A:ILE:HD12	1:10:A:ILE:H	19	0.35
(1,127)	1:28:A:ARG:HD3	1:29:A:ARG:H	1	0.35
(1,62)	2:219:B:ILE:HG21	2:205:B:ARG:H	11	0.35
(1,6185)	2:181:B:ILE:HB	2:225:B:TYR:HE1	17	0.34
(1,6184)	2:172:B:LYS:HB2	2:173:B:HIS:HD2	5	0.34
(1,6117)	2:149:B:ILE:HG23	1:8:A:TYR:HD2	19	0.34
(1,5877)	2:237:B:LEU:HB2	2:236:B:ASN:HA	14	0.34
(1,5721)	2:228:B:ALA:H	2:203:B:ILE:HD13	18	0.34
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG23	15	0.34
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG23	16	0.34
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE2	4	0.34
(1,5642)	1:27:A:ILE:HB	1:33:A:MET:HE3	17	0.34
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG23	1	0.34
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG22	11	0.34
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG21	13	0.34
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE1	16	0.34
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE3	3	0.34
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE1	14	0.34
(1,5432)	2:195:B:ASN:H	2:196:B:ALA:HB3	6	0.34
(1,5428)	2:212:B:ALA:H	2:193:B:MET:HE2	3	0.34
(1,5428)	2:212:B:ALA:H	2:186:B:MET:HE3	7	0.34
(1,5384)	2:156:B:LEU:HD21	2:162:B:THR:HG22	18	0.34
(1,5372)	1:26:A:ILE:HD13	2:167:B:VAL:HG12	7	0.34
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB2	17	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD12	10	0.34
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG23	5	0.34
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG23	6	0.34
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD23	17	0.34
(1,5052)	2:167:B:VAL:HG12	2:170:B:VAL:HG13	18	0.34
(1,4971)	2:157:B:GLN:HG2	2:154:B:LYS:HG3	6	0.34
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD21	12	0.34
(1,4801)	2:159:B:PHE:HZ	2:155:B:LYS:HG3	6	0.34
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD22	4	0.34
(1,4727)	2:153:B:LYS:H	2:152:B:LEU:HD13	4	0.34
(1,4629)	2:226:B:ILE:HG13	2:229:B:LEU:HD21	8	0.34
(1,4629)	2:181:B:ILE:HB	2:229:B:LEU:HD23	14	0.34
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	9	0.34
(1,4592)	2:142:B:ASP:HB2	2:143:B:ILE:HG13	3	0.34
(1,4592)	2:142:B:ASP:HB2	2:143:B:ILE:HG13	5	0.34
(1,4545)	2:213:B:LYS:HE2	2:213:B:LYS:HB3	4	0.34
(1,4497)	1:23:A:GLU:HA	1:25:A:LEU:HD12	16	0.34
(1,4391)	2:196:B:ALA:H	2:197:B:LEU:HD11	15	0.34
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD21	18	0.34
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD12	12	0.34
(1,4302)	1:19:A:THR:H	1:25:A:LEU:HD11	10	0.34
(1,4278)	1:17:A:VAL:HG21	1:23:A:GLU:HB2	8	0.34
(1,4278)	1:17:A:VAL:HG23	1:23:A:GLU:HB2	11	0.34
(1,4278)	1:17:A:VAL:HG23	1:23:A:GLU:HB2	17	0.34
(1,4261)	1:34:A:LYS:HG2	1:37:A:GLN:HB2	19	0.34
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD3	4	0.34
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD3	19	0.34
(1,4015)	2:170:B:VAL:HG23	1:23:A:GLU:HG3	9	0.34
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	18	0.34
(1,3919)	2:171:B:PRO:HA	2:172:B:LYS:HB2	13	0.34
(1,3919)	2:171:B:PRO:HA	2:172:B:LYS:HB2	19	0.34
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	11	0.34
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	5	0.34
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	12	0.34
(1,3739)	2:196:B:ALA:HB1	2:195:B:ASN:HB2	5	0.34
(1,3739)	2:196:B:ALA:HB1	2:195:B:ASN:HB2	14	0.34
(1,3713)	2:155:B:LYS:HE2	2:151:B:GLU:HG3	7	0.34
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	18	0.34
(1,2728)	2:231:B:LEU:HD22	2:155:B:LYS:HA	12	0.34
(1,2719)	2:237:B:LEU:HD13	2:146:B:ARG:HA	12	0.34
(1,2719)	2:237:B:LEU:HD12	2:146:B:ARG:HA	13	0.34
(1,2564)	2:190:B:ASP:H	2:186:B:MET:HA	3	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2564)	1:33:A:MET:H	1:31:A:LYS:HA	17	0.34
(1,2505)	2:181:B:ILE:H	2:178:B:GLN:HA	8	0.34
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	5	0.34
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	19	0.34
(1,2339)	2:228:B:ALA:HB1	2:227:B:ILE:HA	5	0.34
(1,2339)	2:228:B:ALA:HB1	2:227:B:ILE:HA	8	0.34
(1,2339)	2:228:B:ALA:HB3	2:227:B:ILE:HA	11	0.34
(1,2339)	2:228:B:ALA:HB2	2:227:B:ILE:HA	13	0.34
(1,2329)	2:226:B:ILE:HD13	2:218:B:THR:HA	20	0.34
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD13	2	0.34
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD13	20	0.34
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD13	8	0.34
(1,2023)	1:16:A:VAL:HG23	1:9:A:GLU:H	5	0.34
(1,1643)	2:195:B:ASN:HB3	2:192:B:GLN:H	7	0.34
(1,1540)	2:232:B:ILE:HG22	2:235:B:SER:H	16	0.34
(1,1529)	2:181:B:ILE:HD12	1:21:A:GLU:H	16	0.34
(1,1521)	1:7:A:ILE:HG21	1:37:A:GLN:H	2	0.34
(1,1517)	2:162:B:THR:HG23	2:165:B:ASP:H	6	0.34
(1,1513)	2:227:B:ILE:HD11	2:224:B:LYS:H	5	0.34
(1,1513)	2:227:B:ILE:HD13	2:224:B:LYS:H	6	0.34
(1,1470)	2:184:B:ALA:HB1	2:231:B:LEU:H	10	0.34
(1,1470)	2:184:B:ALA:HB2	2:231:B:LEU:H	19	0.34
(1,1452)	2:145:B:ALA:HB3	2:147:B:GLU:H	4	0.34
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	2	0.34
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	5	0.34
(1,1299)	1:41:A:PHE:HZ	1:21:A:GLU:H	16	0.34
(1,1295)	2:194:B:TYR:HE2	2:195:B:ASN:H	3	0.34
(1,1286)	2:233:B:PHE:HD2	2:244:B:LEU:H	9	0.34
(1,1198)	2:156:B:LEU:HD12	2:157:B:GLN:H	4	0.34
(1,1107)	2:213:B:LYS:HD3	2:210:B:LYS:H	12	0.34
(1,1107)	2:213:B:LYS:HD3	2:210:B:LYS:H	16	0.34
(1,1103)	2:156:B:LEU:HG	2:166:B:LEU:H	7	0.34
(1,971)	2:210:B:LYS:HE3	2:211:B:LYS:H	7	0.34
(1,971)	2:210:B:LYS:HE3	2:211:B:LYS:H	19	0.34
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	11	0.34
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	8	0.34
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	16	0.34
(1,626)	2:214:B:VAL:HG13	2:215:B:HIS:H	9	0.34
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	1	0.34
(1,393)	1:24:A:PHE:HD1	2:170:B:VAL:H	10	0.34
(1,384)	2:194:B:TYR:HE2	2:194:B:TYR:H	11	0.34
(1,273)	1:49:A:VAL:HG11	1:50:A:ARG:H	13	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,269)	1:26:A:ILE:HG22	1:15:A:ALA:H	20	0.34
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	12	0.34
(1,189)	1:6:A:ILE:HD11	1:7:A:ILE:H	18	0.34
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	8	0.34
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	12	0.34
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	17	0.34
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	18	0.34
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	19	0.34
(1,140)	1:13:A:MET:HB3	1:29:A:ARG:H	12	0.34
(1,62)	2:219:B:ILE:HG21	2:205:B:ARG:H	8	0.34
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	4	0.34
(1,6271)	2:250:B:LEU:HD21	2:246:B:TYR:HE1	17	0.33
(1,6271)	2:250:B:LEU:HD21	2:246:B:TYR:HE2	17	0.33
(1,6271)	2:250:B:LEU:HD22	2:246:B:TYR:HE1	17	0.33
(1,6271)	2:250:B:LEU:HD22	2:246:B:TYR:HE2	17	0.33
(1,6271)	2:250:B:LEU:HD23	2:246:B:TYR:HE1	17	0.33
(1,6271)	2:250:B:LEU:HD23	2:246:B:TYR:HE2	17	0.33
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	3	0.33
(1,6227)	2:237:B:LEU:HG	1:8:A:TYR:HE1	17	0.33
(1,6147)	1:15:A:ALA:H	1:47:A:TYR:HE1	14	0.33
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE2	10	0.33
(1,6042)	2:161:B:ILE:HD11	2:159:B:PHE:HD1	15	0.33
(1,5914)	1:18:A:LEU:HD23	2:240:B:SER:HB2	19	0.33
(1,5892)	2:228:B:ALA:HB2	2:227:B:ILE:HG22	9	0.33
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	1	0.33
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	11	0.33
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG21	15	0.33
(1,5820)	2:183:B:LEU:HD12	2:218:B:THR:HB	14	0.33
(1,5766)	2:148:B:ASP:HB3	2:236:B:ASN:HA	20	0.33
(1,5746)	2:189:B:GLU:HB2	2:185:B:LYS:HA	6	0.33
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG23	7	0.33
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG23	12	0.33
(1,5542)	2:197:B:LEU:HA	2:198:B:MET:HE2	10	0.33
(1,5432)	2:195:B:ASN:H	2:196:B:ALA:HB2	16	0.33
(1,5396)	2:227:B:ILE:HG22	2:228:B:ALA:HB2	9	0.33
(1,5372)	1:26:A:ILE:HD11	2:167:B:VAL:HG13	19	0.33
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD12	1	0.33
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD21	7	0.33
(1,5111)	2:146:B:ARG:H	1:35:A:VAL:HG13	13	0.33
(1,4991)	1:38:A:GLN:HG2	2:239:B:LEU:HD11	15	0.33
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD12	5	0.33
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD11	6	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD12	5	0.33
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD22	4	0.33
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD23	20	0.33
(1,4893)	2:154:B:LYS:HA	2:154:B:LYS:HG3	14	0.33
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD22	16	0.33
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD13	9	0.33
(1,4713)	2:144:B:GLU:H	2:239:B:LEU:HD22	15	0.33
(1,4643)	2:167:B:VAL:HG12	2:168:B:LEU:HG	19	0.33
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	2	0.33
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	18	0.33
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD11	12	0.33
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	3	0.33
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD21	17	0.33
(1,4391)	1:37:A:GLN:HE21	1:7:A:ILE:HG13	2	0.33
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD11	1	0.33
(1,4278)	1:17:A:VAL:HG21	1:23:A:GLU:HB2	5	0.33
(1,4262)	1:6:A:ILE:HG21	1:37:A:GLN:HB3	6	0.33
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD3	6	0.33
(1,4102)	2:231:B:LEU:H	2:234:B:ARG:HB2	14	0.33
(1,4102)	2:231:B:LEU:H	2:234:B:ARG:HB2	18	0.33
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	17	0.33
(1,3943)	2:153:B:LYS:HE2	2:157:B:GLN:HG2	14	0.33
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	8	0.33
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	4	0.33
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	15	0.33
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	18	0.33
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	19	0.33
(1,3739)	2:196:B:ALA:HB1	2:195:B:ASN:HB2	6	0.33
(1,3739)	2:196:B:ALA:HB3	2:195:B:ASN:HB2	18	0.33
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	17	0.33
(1,3591)	2:160:B:GLY:H	2:158:B:GLU:HG3	1	0.33
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	19	0.33
(1,2719)	2:237:B:LEU:HD11	2:146:B:ARG:HA	7	0.33
(1,2667)	2:161:B:ILE:HG12	2:224:B:LYS:HA	2	0.33
(1,2421)	2:194:B:TYR:HE1	2:194:B:TYR:HA	4	0.33
(1,2421)	2:194:B:TYR:HE2	2:194:B:TYR:HA	8	0.33
(1,2421)	2:194:B:TYR:HE1	2:194:B:TYR:HA	9	0.33
(1,2413)	1:9:A:GLU:H	1:7:A:ILE:HA	14	0.33
(1,2369)	2:149:B:ILE:HD13	1:35:A:VAL:HA	5	0.33
(1,2339)	2:228:B:ALA:HB1	2:227:B:ILE:HA	1	0.33
(1,2339)	2:228:B:ALA:HB3	2:227:B:ILE:HA	2	0.33
(1,2339)	2:228:B:ALA:HB2	2:227:B:ILE:HA	6	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2339)	2:228:B:ALA:HB3	2:227:B:ILE:HA	10	0.33
(1,2339)	2:228:B:ALA:HB3	2:227:B:ILE:HA	19	0.33
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD11	8	0.33
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD13	15	0.33
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD12	13	0.33
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD13	16	0.33
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD11	17	0.33
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD13	7	0.33
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD13	12	0.33
(1,1929)	1:40:A:SER:HB3	1:5:A:GLY:H	15	0.33
(1,1843)	2:201:B:LYS:HG3	2:202:B:ASN:H	15	0.33
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	5	0.33
(1,1741)	2:170:B:VAL:HG21	1:23:A:GLU:H	3	0.33
(1,1741)	2:170:B:VAL:HG21	1:23:A:GLU:H	6	0.33
(1,1739)	2:219:B:ILE:HG21	2:222:B:ASN:H	5	0.33
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	3	0.33
(1,1530)	1:35:A:VAL:HG23	1:9:A:GLU:H	11	0.33
(1,1514)	2:181:B:ILE:HD12	2:244:B:LEU:H	10	0.33
(1,1503)	2:214:B:VAL:HG11	2:212:B:ALA:H	7	0.33
(1,1489)	1:31:A:LYS:HG2	1:33:A:MET:H	20	0.33
(1,1470)	2:184:B:ALA:HB2	2:231:B:LEU:H	3	0.33
(1,1286)	2:233:B:PHE:HD2	2:244:B:LEU:H	15	0.33
(1,1201)	2:156:B:LEU:HD13	2:228:B:ALA:H	9	0.33
(1,1168)	1:46:A:ILE:HD12	1:46:A:ILE:H	13	0.33
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	18	0.33
(1,1141)	2:214:B:VAL:HG22	2:209:B:LYS:H	13	0.33
(1,1132)	2:164:B:LEU:HD22	2:164:B:LEU:H	7	0.33
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	8	0.33
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	16	0.33
(1,1049)	2:242:B:ARG:HG3	2:243:B:TYR:H	9	0.33
(1,1038)	2:182:B:ARG:HG3	2:183:B:LEU:H	5	0.33
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	15	0.33
(1,674)	2:232:B:ILE:HG21	2:238:B:ASN:H	15	0.33
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	18	0.33
(1,576)	2:208:B:LEU:HB3	2:207:B:GLU:H	4	0.33
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	14	0.33
(1,522)	1:42:A:GLU:HG3	1:43:A:ASN:H	3	0.33
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	20	0.33
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	13	0.33
(1,388)	1:24:A:PHE:HD2	1:25:A:LEU:H	15	0.33
(1,347)	2:200:B:ASN:HD21	2:197:B:LEU:H	12	0.33
(1,278)	2:187:B:LEU:HD13	2:196:B:ALA:H	20	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,269)	1:26:A:ILE:HG22	1:15:A:ALA:H	8	0.33
(1,269)	1:26:A:ILE:HG23	1:15:A:ALA:H	9	0.33
(1,269)	1:26:A:ILE:HG22	1:15:A:ALA:H	16	0.33
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	1	0.33
(1,189)	1:6:A:ILE:HD11	1:7:A:ILE:H	4	0.33
(1,189)	1:6:A:ILE:HD12	1:7:A:ILE:H	19	0.33
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	14	0.33
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	15	0.33
(1,172)	1:35:A:VAL:HG13	2:146:B:ARG:H	13	0.33
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	10	0.33
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	2	0.33
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	7	0.33
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	20	0.33
(1,6236)	1:6:A:ILE:HG23	1:8:A:TYR:HE2	6	0.32
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE2	8	0.32
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE1	13	0.32
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE2	17	0.32
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE1	12	0.32
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE1	9	0.32
(1,6045)	2:166:B:LEU:HB2	2:225:B:TYR:HD1	19	0.32
(1,5914)	1:18:A:LEU:HD23	2:240:B:SER:HB2	15	0.32
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	14	0.32
(1,5840)	2:204:B:PRO:HG2	2:196:B:ALA:HB1	13	0.32
(1,5769)	2:211:B:LYS:HD3	2:212:B:ALA:HA	10	0.32
(1,5769)	2:211:B:LYS:HD3	2:212:B:ALA:HA	15	0.32
(1,5753)	2:166:B:LEU:HD11	2:228:B:ALA:HA	11	0.32
(1,5721)	2:220:B:GLY:H	2:203:B:ILE:HD13	13	0.32
(1,5617)	1:13:A:MET:HB3	1:13:A:MET:HE3	3	0.32
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG23	3	0.32
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG21	15	0.32
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE3	11	0.32
(1,5432)	2:195:B:ASN:H	2:196:B:ALA:HB1	4	0.32
(1,5361)	2:244:B:LEU:HG	1:18:A:LEU:HD11	16	0.32
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD12	2	0.32
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD12	6	0.32
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG11	11	0.32
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD22	13	0.32
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD13	5	0.32
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD13	8	0.32
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD13	16	0.32
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD13	18	0.32
(1,5208)	1:5:A:GLY:HA2	1:19:A:THR:HG22	9	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG22	11	0.32
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG23	1	0.32
(1,5052)	2:167:B:VAL:HG13	2:170:B:VAL:HG13	6	0.32
(1,4994)	1:7:A:ILE:HB	1:35:A:VAL:HG23	8	0.32
(1,4994)	1:7:A:ILE:HB	1:35:A:VAL:HG22	14	0.32
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD12	4	0.32
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD13	17	0.32
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD13	10	0.32
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD21	1	0.32
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD23	5	0.32
(1,4893)	2:154:B:LYS:HA	2:154:B:LYS:HG3	17	0.32
(1,4838)	2:178:B:GLN:HE21	2:248:B:THR:HG22	5	0.32
(1,4801)	2:214:B:VAL:H	2:213:B:LYS:HD2	13	0.32
(1,4793)	2:228:B:ALA:H	2:156:B:LEU:HD13	7	0.32
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD13	6	0.32
(1,4761)	2:154:B:LYS:H	2:153:B:LYS:HG2	19	0.32
(1,4684)	2:149:B:ILE:HD12	2:237:B:LEU:HD23	2	0.32
(1,4643)	2:167:B:VAL:HG12	2:168:B:LEU:HG	17	0.32
(1,4592)	2:142:B:ASP:HB2	2:143:B:ILE:HG13	2	0.32
(1,4577)	1:22:A:GLY:HA2	2:244:B:LEU:HD13	14	0.32
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD23	7	0.32
(1,4560)	1:20:A:SER:HB3	1:3:A:ARG:HG2	16	0.32
(1,4497)	1:23:A:GLU:HA	1:25:A:LEU:HD11	14	0.32
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD21	10	0.32
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD13	13	0.32
(1,4278)	1:17:A:VAL:HG22	1:23:A:GLU:HB2	15	0.32
(1,4266)	1:14:A:LYS:HG3	1:11:A:GLN:HB3	3	0.32
(1,3978)	2:153:B:LYS:HD3	2:157:B:GLN:HG2	8	0.32
(1,3963)	1:32:A:ASP:HB3	1:33:A:MET:HG3	5	0.32
(1,3955)	1:32:A:ASP:HB2	1:31:A:LYS:HB3	16	0.32
(1,3886)	1:24:A:PHE:HD2	2:170:B:VAL:HB	8	0.32
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	13	0.32
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	16	0.32
(1,3789)	1:26:A:ILE:HG21	1:14:A:LYS:HB3	3	0.32
(1,3789)	1:26:A:ILE:HG22	1:14:A:LYS:HB3	4	0.32
(1,3789)	1:26:A:ILE:HG22	1:14:A:LYS:HB3	16	0.32
(1,3775)	1:16:A:VAL:HG23	1:9:A:GLU:HG2	5	0.32
(1,3739)	2:196:B:ALA:HB1	2:195:B:ASN:HB2	9	0.32
(1,3669)	2:248:B:THR:HB	2:245:B:GLU:HG2	10	0.32
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	4	0.32
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	18	0.32
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	18	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2667)	2:223:B:ARG:HG3	2:224:B:LYS:HA	8	0.32
(1,2621)	2:213:B:LYS:HE2	2:211:B:LYS:HA	18	0.32
(1,2564)	1:33:A:MET:H	1:31:A:LYS:HA	9	0.32
(1,2564)	1:33:A:MET:H	1:31:A:LYS:HA	10	0.32
(1,2564)	1:33:A:MET:H	1:31:A:LYS:HA	12	0.32
(1,2505)	2:181:B:ILE:H	2:178:B:GLN:HA	4	0.32
(1,2505)	2:181:B:ILE:H	2:178:B:GLN:HA	17	0.32
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	4	0.32
(1,2422)	1:24:A:PHE:HD2	2:225:B:TYR:HA	4	0.32
(1,2421)	2:194:B:TYR:HE1	2:194:B:TYR:HA	10	0.32
(1,2421)	2:194:B:TYR:HE1	2:194:B:TYR:HA	13	0.32
(1,2369)	2:149:B:ILE:HD13	1:35:A:VAL:HA	2	0.32
(1,2339)	2:228:B:ALA:HB2	2:227:B:ILE:HA	4	0.32
(1,2339)	2:228:B:ALA:HB1	2:227:B:ILE:HA	7	0.32
(1,2339)	2:228:B:ALA:HB1	2:227:B:ILE:HA	9	0.32
(1,2339)	2:228:B:ALA:HB2	2:227:B:ILE:HA	12	0.32
(1,2339)	2:228:B:ALA:HB3	2:227:B:ILE:HA	17	0.32
(1,2258)	2:153:B:LYS:HB2	2:149:B:ILE:HA	10	0.32
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD13	20	0.32
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD11	14	0.32
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD11	3	0.32
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD12	10	0.32
(1,2139)	2:219:B:ILE:H	2:219:B:ILE:HD11	15	0.32
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD11	15	0.32
(1,2024)	2:218:B:THR:HG21	2:180:B:CYS:H	13	0.32
(1,2023)	1:16:A:VAL:HG22	1:9:A:GLU:H	11	0.32
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	20	0.32
(1,2002)	2:155:B:LYS:HD2	2:158:B:GLU:H	12	0.32
(1,2002)	2:155:B:LYS:HD2	2:158:B:GLU:H	13	0.32
(1,1836)	1:19:A:THR:HG21	1:20:A:SER:H	10	0.32
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	4	0.32
(1,1741)	2:170:B:VAL:HG23	1:23:A:GLU:H	18	0.32
(1,1733)	2:187:B:LEU:HD22	2:188:B:ALA:H	7	0.32
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	5	0.32
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	7	0.32
(1,1674)	2:201:B:LYS:HE3	2:159:B:PHE:H	10	0.32
(1,1674)	2:201:B:LYS:HE3	2:159:B:PHE:H	16	0.32
(1,1643)	2:195:B:ASN:HB3	2:192:B:GLN:H	13	0.32
(1,1489)	1:31:A:LYS:HG2	1:33:A:MET:H	10	0.32
(1,1470)	2:184:B:ALA:HB2	2:231:B:LEU:H	1	0.32
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	11	0.32
(1,1201)	2:156:B:LEU:HD13	2:228:B:ALA:H	7	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1201)	2:229:B:LEU:HD12	2:228:B:ALA:H	13	0.32
(1,1168)	1:46:A:ILE:HD12	1:46:A:ILE:H	2	0.32
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	15	0.32
(1,1071)	2:156:B:LEU:HG	2:228:B:ALA:H	17	0.32
(1,1038)	2:182:B:ARG:HG3	2:183:B:LEU:H	1	0.32
(1,1038)	2:182:B:ARG:HG3	2:183:B:LEU:H	12	0.32
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	8	0.32
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	4	0.32
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	17	0.32
(1,626)	2:214:B:VAL:HG11	2:215:B:HIS:H	19	0.32
(1,347)	2:158:B:GLU:H	2:155:B:LYS:H	17	0.32
(1,269)	1:26:A:ILE:HG23	1:15:A:ALA:H	11	0.32
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	12	0.32
(1,189)	1:6:A:ILE:HD11	1:7:A:ILE:H	5	0.32
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	10	0.32
(1,173)	1:10:A:ILE:HD11	1:10:A:ILE:H	10	0.32
(1,161)	1:52:A:LYS:HB2	1:52:A:LYS:H	1	0.32
(1,62)	2:219:B:ILE:HG22	2:205:B:ARG:H	13	0.32
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	2	0.32
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	12	0.32
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	8	0.32
(1,6192)	2:188:B:ALA:HB2	2:194:B:TYR:HE1	3	0.31
(1,5940)	1:39:A:VAL:HG11	1:17:A:VAL:HG22	17	0.31
(1,5940)	1:39:A:VAL:HG11	1:17:A:VAL:HG22	19	0.31
(1,5892)	2:228:B:ALA:HB2	2:227:B:ILE:HG21	7	0.31
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG23	18	0.31
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG21	6	0.31
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG22	6	0.31
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG23	6	0.31
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE1	4	0.31
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE1	5	0.31
(1,5432)	2:195:B:ASN:H	2:196:B:ALA:HB3	1	0.31
(1,5432)	2:200:B:ASN:H	2:196:B:ALA:HB2	3	0.31
(1,5432)	2:195:B:ASN:H	2:196:B:ALA:HB2	10	0.31
(1,5396)	2:227:B:ILE:HG21	2:228:B:ALA:HB2	7	0.31
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD21	8	0.31
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD13	13	0.31
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD11	17	0.31
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG21	17	0.31
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG21	18	0.31
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD22	4	0.31
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD23	6	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD22	10	0.31
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD21	12	0.31
(1,5111)	2:146:B:ARG:H	1:35:A:VAL:HG12	14	0.31
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG22	6	0.31
(1,4994)	1:7:A:ILE:HB	1:35:A:VAL:HG22	4	0.31
(1,4989)	2:167:B:VAL:HB	2:164:B:LEU:HD23	15	0.31
(1,4971)	2:157:B:GLN:HG2	2:154:B:LYS:HG3	10	0.31
(1,4971)	2:157:B:GLN:HG2	2:154:B:LYS:HG3	13	0.31
(1,4959)	2:155:B:LYS:HE3	2:231:B:LEU:HD21	20	0.31
(1,4948)	2:159:B:PHE:HB3	2:197:B:LEU:HD21	7	0.31
(1,4893)	2:154:B:LYS:HA	2:154:B:LYS:HG3	8	0.31
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD22	15	0.31
(1,4801)	2:214:B:VAL:H	2:213:B:LYS:HD3	1	0.31
(1,4786)	2:159:B:PHE:H	2:231:B:LEU:HD22	12	0.31
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD23	6	0.31
(1,4713)	2:144:B:GLU:H	2:239:B:LEU:HD22	13	0.31
(1,4684)	2:232:B:ILE:HG23	2:237:B:LEU:HD21	6	0.31
(1,4679)	2:232:B:ILE:HG21	2:152:B:LEU:HD22	13	0.31
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD12	5	0.31
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD12	16	0.31
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	4	0.31
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	8	0.31
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	10	0.31
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	14	0.31
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD23	9	0.31
(1,4576)	2:159:B:PHE:HB2	2:156:B:LEU:HD22	15	0.31
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD22	7	0.31
(1,4560)	1:45:A:ASP:HB2	1:3:A:ARG:HG3	8	0.31
(1,4418)	2:233:B:PHE:HE2	2:185:B:LYS:HD2	4	0.31
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD22	2	0.31
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD21	12	0.31
(1,4261)	1:34:A:LYS:HG2	1:37:A:GLN:HB2	8	0.31
(1,4259)	1:7:A:ILE:HD13	1:37:A:GLN:HB3	7	0.31
(1,4195)	2:207:B:GLU:HA	2:210:B:LYS:HD3	6	0.31
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	19	0.31
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	1	0.31
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	6	0.31
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	8	0.31
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	9	0.31
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	10	0.31
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	13	0.31
(1,3789)	1:26:A:ILE:HG23	1:14:A:LYS:HB3	12	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3669)	2:248:B:THR:HB	2:245:B:GLU:HG2	4	0.31
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	18	0.31
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	12	0.31
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	4	0.31
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	16	0.31
(1,3102)	2:193:B:MET:HG3	2:204:B:PRO:HD2	17	0.31
(1,2803)	2:169:B:ASN:HD22	2:166:B:LEU:HA	14	0.31
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	13	0.31
(1,2658)	2:155:B:LYS:HG2	2:155:B:LYS:HA	15	0.31
(1,2641)	2:158:B:GLU:HG2	2:158:B:GLU:HA	18	0.31
(1,2564)	1:33:A:MET:H	1:31:A:LYS:HA	11	0.31
(1,2564)	1:33:A:MET:H	1:31:A:LYS:HA	16	0.31
(1,2505)	2:181:B:ILE:H	2:178:B:GLN:HA	9	0.31
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	18	0.31
(1,2421)	2:194:B:TYR:HE1	2:194:B:TYR:HA	3	0.31
(1,2339)	2:228:B:ALA:HB2	2:227:B:ILE:HA	3	0.31
(1,2339)	2:228:B:ALA:HB3	2:227:B:ILE:HA	18	0.31
(1,2339)	2:228:B:ALA:HB1	2:227:B:ILE:HA	20	0.31
(1,2258)	2:153:B:LYS:HB2	2:149:B:ILE:HA	20	0.31
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD12	7	0.31
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD13	2	0.31
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD13	7	0.31
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD12	13	0.31
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD11	16	0.31
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD11	20	0.31
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD11	10	0.31
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD13	11	0.31
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD11	14	0.31
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	11	0.31
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	14	0.31
(1,1739)	2:219:B:ILE:HG22	2:222:B:ASN:H	10	0.31
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	11	0.31
(1,1591)	1:24:A:PHE:HD2	1:23:A:GLU:H	17	0.31
(1,1589)	2:225:B:TYR:HE1	2:180:B:CYS:H	9	0.31
(1,1540)	2:232:B:ILE:HG21	2:235:B:SER:H	6	0.31
(1,1540)	2:232:B:ILE:HG23	2:235:B:SER:H	18	0.31
(1,1521)	1:6:A:ILE:HG21	1:37:A:GLN:H	6	0.31
(1,1519)	2:168:B:LEU:HD11	2:165:B:ASP:H	18	0.31
(1,1517)	2:162:B:THR:HG21	2:165:B:ASP:H	18	0.31
(1,1514)	2:181:B:ILE:HD11	2:244:B:LEU:H	20	0.31
(1,1489)	1:31:A:LYS:HG2	1:33:A:MET:H	6	0.31
(1,1470)	2:184:B:ALA:HB1	2:231:B:LEU:H	18	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1452)	2:145:B:ALA:HB2	2:147:B:GLU:H	17	0.31
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	17	0.31
(1,1365)	2:223:B:ARG:HD2	2:224:B:LYS:H	3	0.31
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	7	0.31
(1,1198)	2:156:B:LEU:HD12	2:157:B:GLN:H	8	0.31
(1,1198)	2:156:B:LEU:HD13	2:157:B:GLN:H	12	0.31
(1,1141)	2:214:B:VAL:HG21	2:209:B:LYS:H	2	0.31
(1,1132)	2:164:B:LEU:HD22	2:164:B:LEU:H	8	0.31
(1,1130)	2:239:B:LEU:HD11	2:243:B:TYR:H	10	0.31
(1,1130)	2:239:B:LEU:HD11	2:243:B:TYR:H	11	0.31
(1,1078)	2:224:B:LYS:HB3	2:225:B:TYR:H	2	0.31
(1,1042)	2:164:B:LEU:HB2	2:163:B:PHE:H	6	0.31
(1,1038)	2:182:B:ARG:HG3	2:183:B:LEU:H	20	0.31
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	9	0.31
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	11	0.31
(1,626)	2:214:B:VAL:HG12	2:215:B:HIS:H	16	0.31
(1,605)	2:171:B:PRO:HG2	2:170:B:VAL:H	16	0.31
(1,576)	2:208:B:LEU:HB3	2:207:B:GLU:H	12	0.31
(1,555)	2:193:B:MET:HB3	2:194:B:TYR:H	18	0.31
(1,522)	1:42:A:GLU:HG3	1:43:A:ASN:H	8	0.31
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	2	0.31
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	4	0.31
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	8	0.31
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	9	0.31
(1,347)	2:158:B:GLU:H	2:155:B:LYS:H	1	0.31
(1,347)	2:200:B:ASN:HD21	2:197:B:LEU:H	2	0.31
(1,278)	2:187:B:LEU:HD12	2:196:B:ALA:H	2	0.31
(1,278)	2:187:B:LEU:HD13	2:196:B:ALA:H	14	0.31
(1,269)	1:26:A:ILE:HG22	1:15:A:ALA:H	1	0.31
(1,269)	1:26:A:ILE:HG23	1:15:A:ALA:H	2	0.31
(1,269)	1:26:A:ILE:HG23	1:15:A:ALA:H	6	0.31
(1,269)	1:26:A:ILE:HG22	1:15:A:ALA:H	14	0.31
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	6	0.31
(1,179)	1:15:A:ALA:HB2	1:29:A:ARG:H	19	0.31
(1,177)	1:7:A:ILE:HD12	1:30:A:ARG:H	9	0.31
(1,173)	1:10:A:ILE:HD13	1:10:A:ILE:H	16	0.31
(1,173)	1:10:A:ILE:HD13	1:10:A:ILE:H	17	0.31
(1,172)	1:35:A:VAL:HG12	2:146:B:ARG:H	14	0.31
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	15	0.31
(1,22)	1:26:A:ILE:HG22	1:47:A:TYR:H	14	0.31
(1,6246)	2:173:B:HIS:HB3	2:173:B:HIS:HD2	6	0.3
(1,6236)	1:6:A:ILE:HG22	1:8:A:TYR:HE1	17	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE1	2	0.3
(1,6176)	2:230:B:CYS:HB2	2:194:B:TYR:HE2	8	0.3
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE2	4	0.3
(1,6042)	2:161:B:ILE:HD11	2:159:B:PHE:HD2	6	0.3
(1,6035)	2:245:B:GLU:HB2	2:246:B:TYR:HD2	6	0.3
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	12	0.3
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	13	0.3
(1,5820)	2:183:B:LEU:HD13	2:218:B:THR:HB	19	0.3
(1,5746)	2:189:B:GLU:HB2	2:185:B:LYS:HA	3	0.3
(1,5721)	2:220:B:GLY:H	2:203:B:ILE:HD11	19	0.3
(1,5721)	2:220:B:GLY:H	2:203:B:ILE:HD12	20	0.3
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG21	1	0.3
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG22	7	0.3
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG22	19	0.3
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG21	9	0.3
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG23	7	0.3
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE1	10	0.3
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE2	6	0.3
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE3	2	0.3
(1,5432)	2:200:B:ASN:H	2:196:B:ALA:HB3	17	0.3
(1,5429)	2:185:B:LYS:H	2:186:B:MET:HE1	16	0.3
(1,5343)	1:29:A:ARG:HG3	1:15:A:ALA:HB1	17	0.3
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD11	3	0.3
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG23	10	0.3
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD21	13	0.3
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG22	16	0.3
(1,4994)	1:7:A:ILE:HB	1:35:A:VAL:HG22	20	0.3
(1,4975)	2:171:B:PRO:HB2	2:170:B:VAL:HG11	16	0.3
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD12	7	0.3
(1,4893)	2:154:B:LYS:HA	2:154:B:LYS:HG3	19	0.3
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG21	5	0.3
(1,4838)	2:178:B:GLN:HE21	2:248:B:THR:HG22	2	0.3
(1,4838)	2:178:B:GLN:HE21	2:248:B:THR:HG21	9	0.3
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD11	5	0.3
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD23	10	0.3
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD22	1	0.3
(1,4643)	2:167:B:VAL:HG12	2:168:B:LEU:HG	3	0.3
(1,4612)	2:243:B:TYR:HB3	2:244:B:LEU:HD12	8	0.3
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD13	20	0.3
(1,4515)	2:223:B:ARG:HA	2:223:B:ARG:HG2	5	0.3
(1,4497)	1:23:A:GLU:HA	1:25:A:LEU:HD12	7	0.3
(1,4480)	2:162:B:THR:HB	2:164:B:LEU:HG	8	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD23	5	0.3
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD22	1	0.3
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD21	7	0.3
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD11	17	0.3
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD12	19	0.3
(1,4261)	1:34:A:LYS:HG2	1:37:A:GLN:HB2	9	0.3
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD3	14	0.3
(1,4195)	2:207:B:GLU:HA	2:210:B:LYS:HD3	7	0.3
(1,4089)	2:220:B:GLY:H	2:217:B:ARG:HB2	2	0.3
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	13	0.3
(1,3967)	2:193:B:MET:HG2	2:211:B:LYS:HB2	5	0.3
(1,3963)	1:32:A:ASP:HB3	1:33:A:MET:HG3	2	0.3
(1,3963)	1:32:A:ASP:HB3	1:33:A:MET:HG3	14	0.3
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	12	0.3
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	7	0.3
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	11	0.3
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	14	0.3
(1,3743)	2:149:B:ILE:HG12	2:150:B:GLU:HG2	13	0.3
(1,3730)	2:177:B:ARG:HB3	1:23:A:GLU:HG2	10	0.3
(1,3723)	2:181:B:ILE:HG12	2:247:B:TYR:HB3	13	0.3
(1,3713)	2:154:B:LYS:HE3	2:151:B:GLU:HG2	19	0.3
(1,3697)	2:207:B:GLU:HA	2:207:B:GLU:HG3	3	0.3
(1,3669)	2:248:B:THR:HB	2:245:B:GLU:HG2	7	0.3
(1,3529)	1:43:A:ASN:H	1:42:A:GLU:HG2	19	0.3
(1,3248)	2:192:B:GLN:HB2	2:190:B:ASP:HB2	17	0.3
(1,3246)	1:13:A:MET:HB3	1:29:A:ARG:HD3	13	0.3
(1,3240)	2:194:B:TYR:HB3	2:190:B:ASP:HB3	5	0.3
(1,3087)	2:143:B:ILE:HG23	2:145:B:ALA:HA	4	0.3
(1,2564)	2:190:B:ASP:H	2:186:B:MET:HA	18	0.3
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	2	0.3
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	10	0.3
(1,2422)	1:24:A:PHE:HD2	2:225:B:TYR:HA	18	0.3
(1,2421)	2:194:B:TYR:HE2	2:194:B:TYR:HA	7	0.3
(1,2339)	2:228:B:ALA:HB1	2:227:B:ILE:HA	16	0.3
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD11	14	0.3
(1,2300)	2:177:B:ARG:HG2	2:181:B:ILE:HD11	17	0.3
(1,2188)	1:37:A:GLN:HA	2:143:B:ILE:HD12	10	0.3
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	13	0.3
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD11	3	0.3
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD12	11	0.3
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD12	20	0.3
(1,2139)	2:159:B:PHE:HD2	2:161:B:ILE:HD11	6	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD11	1	0.3
(1,2023)	1:16:A:VAL:HG23	1:9:A:GLU:H	10	0.3
(1,1965)	2:219:B:ILE:HG22	2:220:B:GLY:H	2	0.3
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	5	0.3
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	6	0.3
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	5	0.3
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	10	0.3
(1,1810)	2:142:B:ASP:HB2	1:38:A:GLN:HE21	12	0.3
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	11	0.3
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	17	0.3
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	20	0.3
(1,1733)	2:187:B:LEU:HD21	2:188:B:ALA:H	17	0.3
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	2	0.3
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	12	0.3
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	14	0.3
(1,1674)	2:201:B:LYS:HE3	2:159:B:PHE:H	7	0.3
(1,1643)	2:211:B:LYS:HE3	2:192:B:GLN:H	5	0.3
(1,1591)	2:225:B:TYR:HE2	1:23:A:GLU:H	12	0.3
(1,1529)	2:181:B:ILE:HD11	1:21:A:GLU:H	8	0.3
(1,1526)	1:7:A:ILE:HD13	1:33:A:MET:H	1	0.3
(1,1521)	1:6:A:ILE:HG23	1:37:A:GLN:H	13	0.3
(1,1503)	2:214:B:VAL:HG12	2:212:B:ALA:H	3	0.3
(1,1470)	2:184:B:ALA:HB2	2:231:B:LEU:H	11	0.3
(1,1470)	2:184:B:ALA:HB2	2:231:B:LEU:H	15	0.3
(1,1463)	2:191:B:GLU:HB2	2:195:B:ASN:H	6	0.3
(1,1452)	2:145:B:ALA:HB2	2:147:B:GLU:H	8	0.3
(1,1452)	2:145:B:ALA:HB3	2:147:B:GLU:H	18	0.3
(1,1187)	2:156:B:LEU:HD22	2:163:B:PHE:H	11	0.3
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	6	0.3
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	8	0.3
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	14	0.3
(1,1130)	2:239:B:LEU:HD11	2:243:B:TYR:H	20	0.3
(1,1045)	2:171:B:PRO:HB3	2:181:B:ILE:H	5	0.3
(1,1045)	2:171:B:PRO:HB3	2:181:B:ILE:H	19	0.3
(1,1038)	2:182:B:ARG:HG3	2:183:B:LEU:H	19	0.3
(1,952)	2:154:B:LYS:HE2	2:153:B:LYS:H	1	0.3
(1,629)	2:231:B:LEU:HD12	2:230:B:CYS:H	13	0.3
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	9	0.3
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	16	0.3
(1,576)	2:210:B:LYS:HG2	2:207:B:GLU:H	20	0.3
(1,555)	2:193:B:MET:HB3	2:194:B:TYR:H	9	0.3
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	7	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,546)	2:178:B:GLN:HG2	2:179:B:LEU:H	16	0.3
(1,522)	1:42:A:GLU:HG3	1:43:A:ASN:H	11	0.3
(1,402)	1:19:A:THR:HB	1:6:A:ILE:H	1	0.3
(1,388)	1:24:A:PHE:HD2	1:25:A:LEU:H	10	0.3
(1,278)	2:187:B:LEU:HD12	2:196:B:ALA:H	17	0.3
(1,271)	1:49:A:VAL:HG11	1:48:A:ASN:H	2	0.3
(1,271)	1:49:A:VAL:HG12	1:48:A:ASN:H	2	0.3
(1,271)	1:49:A:VAL:HG13	1:48:A:ASN:H	2	0.3
(1,269)	1:26:A:ILE:HG22	1:15:A:ALA:H	4	0.3
(1,269)	1:26:A:ILE:HG23	1:15:A:ALA:H	10	0.3
(1,269)	1:26:A:ILE:HG23	1:15:A:ALA:H	12	0.3
(1,269)	1:26:A:ILE:HG22	1:15:A:ALA:H	15	0.3
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	13	0.3
(1,189)	1:6:A:ILE:HD11	1:7:A:ILE:H	12	0.3
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	2	0.3
(1,173)	1:10:A:ILE:HD13	1:10:A:ILE:H	20	0.3
(1,127)	1:28:A:ARG:HD3	1:29:A:ARG:H	20	0.3
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	5	0.3
(1,7)	1:35:A:VAL:HG11	1:8:A:TYR:H	9	0.3
(1,6236)	1:6:A:ILE:HG23	1:8:A:TYR:HE1	14	0.29
(1,6192)	2:188:B:ALA:HB1	2:194:B:TYR:HE1	2	0.29
(1,6185)	2:181:B:ILE:HB	2:225:B:TYR:HE1	15	0.29
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE2	3	0.29
(1,5892)	2:228:B:ALA:HB2	2:227:B:ILE:HG21	4	0.29
(1,5892)	2:228:B:ALA:HB3	2:227:B:ILE:HG22	19	0.29
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	5	0.29
(1,5853)	2:169:B:ASN:HB3	2:166:B:LEU:HD22	12	0.29
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG22	11	0.29
(1,5753)	2:166:B:LEU:HD13	2:228:B:ALA:HA	5	0.29
(1,5753)	2:166:B:LEU:HD11	2:228:B:ALA:HA	13	0.29
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE1	5	0.29
(1,5500)	2:225:B:TYR:HD1	2:226:B:ILE:HG21	16	0.29
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE1	8	0.29
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE2	10	0.29
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE3	12	0.29
(1,5432)	2:195:B:ASN:H	2:196:B:ALA:HB2	7	0.29
(1,5428)	2:212:B:ALA:H	2:193:B:MET:HE3	6	0.29
(1,5396)	2:227:B:ILE:HG21	2:228:B:ALA:HB2	4	0.29
(1,5396)	2:227:B:ILE:HG22	2:228:B:ALA:HB3	19	0.29
(1,5361)	2:244:B:LEU:HG	1:18:A:LEU:HD13	12	0.29
(1,5352)	1:11:A:GLN:HB3	1:16:A:VAL:HG21	17	0.29
(1,5315)	2:226:B:ILE:HG13	2:218:B:THR:HG21	6	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB1	2	0.29
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD21	16	0.29
(1,5225)	2:183:B:LEU:HA	2:212:B:ALA:HB1	14	0.29
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD12	4	0.29
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD13	19	0.29
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD23	1	0.29
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG23	19	0.29
(1,4993)	1:14:A:LYS:HE2	2:164:B:LEU:HD13	17	0.29
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD23	3	0.29
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD23	7	0.29
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG22	11	0.29
(1,4838)	2:178:B:GLN:HE21	2:248:B:THR:HG22	4	0.29
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD11	18	0.29
(1,4808)	2:214:B:VAL:H	2:213:B:LYS:HG2	12	0.29
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD12	1	0.29
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD22	16	0.29
(1,4734)	2:212:B:ALA:H	2:208:B:LEU:HD12	1	0.29
(1,4629)	2:226:B:ILE:HG13	2:229:B:LEU:HD21	11	0.29
(1,4629)	2:226:B:ILE:HG13	2:229:B:LEU:HD22	13	0.29
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD11	2	0.29
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	16	0.29
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	20	0.29
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD22	10	0.29
(1,4478)	1:34:A:LYS:HA	1:7:A:ILE:HG12	5	0.29
(1,4478)	1:34:A:LYS:HA	1:7:A:ILE:HG12	12	0.29
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD21	6	0.29
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD12	6	0.29
(1,4278)	1:17:A:VAL:HG23	1:23:A:GLU:HB2	4	0.29
(1,4266)	1:14:A:LYS:HG3	1:11:A:GLN:HB3	14	0.29
(1,4261)	1:34:A:LYS:HG2	1:37:A:GLN:HB2	18	0.29
(1,4234)	2:201:B:LYS:HE3	2:155:B:LYS:HD3	15	0.29
(1,4102)	2:231:B:LEU:H	2:234:B:ARG:HB2	1	0.29
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	14	0.29
(1,4005)	2:143:B:ILE:HG23	1:37:A:GLN:HG3	19	0.29
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	3	0.29
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	5	0.29
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	12	0.29
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	14	0.29
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	17	0.29
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	12	0.29
(1,3739)	2:196:B:ALA:HB3	2:195:B:ASN:HB2	2	0.29
(1,3739)	2:196:B:ALA:HB2	2:195:B:ASN:HB2	11	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3730)	2:170:B:VAL:HB	1:23:A:GLU:HG2	13	0.29
(1,3725)	2:151:B:GLU:HB2	2:236:B:ASN:HB2	17	0.29
(1,3713)	2:154:B:LYS:HE3	2:151:B:GLU:HG3	14	0.29
(1,3711)	2:210:B:LYS:HE2	2:207:B:GLU:HG2	8	0.29
(1,3697)	2:207:B:GLU:HA	2:207:B:GLU:HG3	5	0.29
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	20	0.29
(1,3669)	2:248:B:THR:HB	2:245:B:GLU:HG2	2	0.29
(1,3580)	2:151:B:GLU:H	2:151:B:GLU:HG2	1	0.29
(1,3393)	1:14:A:LYS:HA	1:14:A:LYS:HE3	17	0.29
(1,3065)	2:146:B:ARG:HB2	2:145:B:ALA:HA	10	0.29
(1,2940)	1:7:A:ILE:HG21	1:9:A:GLU:HA	17	0.29
(1,2896)	2:166:B:LEU:HB3	1:24:A:PHE:HA	20	0.29
(1,2564)	1:33:A:MET:H	1:31:A:LYS:HA	20	0.29
(1,2511)	2:153:B:LYS:H	2:150:B:GLU:HA	13	0.29
(1,2505)	2:181:B:ILE:H	2:178:B:GLN:HA	2	0.29
(1,2505)	2:181:B:ILE:H	2:178:B:GLN:HA	12	0.29
(1,2505)	2:181:B:ILE:H	2:178:B:GLN:HA	16	0.29
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	9	0.29
(1,2422)	2:225:B:TYR:HE2	2:225:B:TYR:HA	15	0.29
(1,2421)	2:194:B:TYR:HE2	2:194:B:TYR:HA	5	0.29
(1,2421)	2:194:B:TYR:HE2	2:194:B:TYR:HA	11	0.29
(1,2421)	2:194:B:TYR:HE2	2:194:B:TYR:HA	18	0.29
(1,2369)	2:149:B:ILE:HD12	1:35:A:VAL:HA	16	0.29
(1,2333)	2:183:B:LEU:HD21	2:180:B:CYS:HA	15	0.29
(1,2329)	2:226:B:ILE:HD12	2:218:B:THR:HA	16	0.29
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD11	9	0.29
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD11	13	0.29
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD13	15	0.29
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD11	19	0.29
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD11	1	0.29
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD13	6	0.29
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD11	10	0.29
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD11	12	0.29
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD11	13	0.29
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD13	15	0.29
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD13	18	0.29
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD12	19	0.29
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD11	1	0.29
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD11	5	0.29
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD12	12	0.29
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD13	19	0.29
(1,2024)	2:218:B:THR:HG22	2:180:B:CYS:H	19	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1991)	1:26:A:ILE:HD11	1:49:A:VAL:H	14	0.29
(1,1965)	2:219:B:ILE:HG23	2:220:B:GLY:H	11	0.29
(1,1965)	2:219:B:ILE:HG23	2:220:B:GLY:H	16	0.29
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	2	0.29
(1,1739)	2:219:B:ILE:HG23	2:222:B:ASN:H	11	0.29
(1,1733)	2:187:B:LEU:HD22	2:188:B:ALA:H	18	0.29
(1,1674)	2:201:B:LYS:HE3	2:159:B:PHE:H	15	0.29
(1,1626)	2:223:B:ARG:HA	2:226:B:ILE:H	2	0.29
(1,1588)	1:41:A:PHE:HE1	1:19:A:THR:H	9	0.29
(1,1540)	2:232:B:ILE:HG21	2:235:B:SER:H	5	0.29
(1,1514)	2:181:B:ILE:HD13	2:244:B:LEU:H	2	0.29
(1,1503)	2:214:B:VAL:HG11	2:212:B:ALA:H	4	0.29
(1,1489)	1:31:A:LYS:HG2	1:33:A:MET:H	1	0.29
(1,1470)	2:184:B:ALA:HB2	2:231:B:LEU:H	2	0.29
(1,1452)	2:145:B:ALA:HB1	2:147:B:GLU:H	7	0.29
(1,1413)	1:29:A:ARG:HD3	1:33:A:MET:H	7	0.29
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	14	0.29
(1,1141)	2:214:B:VAL:HG23	2:209:B:LYS:H	8	0.29
(1,1141)	2:214:B:VAL:HG23	2:209:B:LYS:H	17	0.29
(1,1132)	2:164:B:LEU:HD23	2:164:B:LEU:H	13	0.29
(1,1130)	2:239:B:LEU:HD13	2:243:B:TYR:H	6	0.29
(1,1130)	2:239:B:LEU:HD11	2:243:B:TYR:H	14	0.29
(1,1078)	2:237:B:LEU:HB3	2:241:B:LYS:H	9	0.29
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	3	0.29
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	5	0.29
(1,1049)	2:242:B:ARG:HG3	2:243:B:TYR:H	4	0.29
(1,1049)	2:242:B:ARG:HG3	2:243:B:TYR:H	14	0.29
(1,1038)	2:182:B:ARG:HG3	2:183:B:LEU:H	4	0.29
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	13	0.29
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	2	0.29
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	11	0.29
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	12	0.29
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	16	0.29
(1,674)	2:232:B:ILE:HG22	2:238:B:ASN:H	11	0.29
(1,629)	2:231:B:LEU:HD13	2:230:B:CYS:H	9	0.29
(1,626)	2:214:B:VAL:HG13	2:215:B:HIS:H	14	0.29
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	20	0.29
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	4	0.29
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	12	0.29
(1,388)	1:24:A:PHE:HD2	1:25:A:LEU:H	1	0.29
(1,388)	1:24:A:PHE:HD1	1:25:A:LEU:H	4	0.29
(1,278)	2:187:B:LEU:HD11	2:196:B:ALA:H	10	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,269)	1:26:A:ILE:HG23	1:15:A:ALA:H	7	0.29
(1,189)	1:6:A:ILE:HD12	1:7:A:ILE:H	11	0.29
(1,173)	1:10:A:ILE:HD12	1:10:A:ILE:H	15	0.29
(1,140)	1:13:A:MET:HB3	1:29:A:ARG:H	16	0.29
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	14	0.29
(1,6184)	2:209:B:LYS:HG3	2:215:B:HIS:HD2	6	0.28
(1,5910)	1:10:A:ILE:HB	1:35:A:VAL:HG23	19	0.28
(1,5892)	2:228:B:ALA:HB3	2:227:B:ILE:HG21	11	0.28
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	7	0.28
(1,5840)	2:147:B:GLU:HG3	2:145:B:ALA:HB2	5	0.28
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG23	7	0.28
(1,5746)	2:189:B:GLU:HB2	2:185:B:LYS:HA	8	0.28
(1,5729)	1:30:A:ARG:H	1:27:A:ILE:HD11	8	0.28
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG21	8	0.28
(1,5629)	2:150:B:GLU:HG2	2:149:B:ILE:HG21	7	0.28
(1,5608)	1:36:A:GLY:HA2	1:6:A:ILE:HG22	6	0.28
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE2	5	0.28
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE2	15	0.28
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE3	17	0.28
(1,5449)	2:207:B:GLU:H	2:203:B:ILE:HG23	4	0.28
(1,5432)	2:200:B:ASN:H	2:196:B:ALA:HB1	18	0.28
(1,5396)	2:227:B:ILE:HG21	2:228:B:ALA:HB3	11	0.28
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD13	5	0.28
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD11	19	0.28
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG12	10	0.28
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD22	7	0.28
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD13	7	0.28
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG23	1	0.28
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD23	8	0.28
(1,4989)	1:14:A:LYS:HE2	2:164:B:LEU:HD23	20	0.28
(1,4971)	2:157:B:GLN:HG2	2:154:B:LYS:HG3	2	0.28
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD21	6	0.28
(1,4957)	2:230:B:CYS:HB2	2:208:B:LEU:HD11	15	0.28
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG22	8	0.28
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG23	10	0.28
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD21	15	0.28
(1,4893)	2:154:B:LYS:HA	2:154:B:LYS:HG3	6	0.28
(1,4801)	2:214:B:VAL:H	2:213:B:LYS:HD3	12	0.28
(1,4684)	2:232:B:ILE:HG22	2:237:B:LEU:HD22	18	0.28
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	13	0.28
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD12	17	0.28
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD12	19	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD12	6	0.28
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD11	9	0.28
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD21	15	0.28
(1,4391)	1:37:A:GLN:HE21	1:7:A:ILE:HG13	14	0.28
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD21	3	0.28
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD22	19	0.28
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD23	20	0.28
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD12	16	0.28
(1,4266)	2:219:B:ILE:HG22	2:223:B:ARG:HB3	2	0.28
(1,4214)	2:217:B:ARG:HD3	2:217:B:ARG:HB3	7	0.28
(1,3963)	1:32:A:ASP:HB3	1:33:A:MET:HG3	18	0.28
(1,3929)	2:228:B:ALA:HA	2:155:B:LYS:HB3	16	0.28
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	2	0.28
(1,3885)	1:37:A:GLN:HE22	1:37:A:GLN:HG3	20	0.28
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	4	0.28
(1,3695)	2:189:B:GLU:HA	2:189:B:GLU:HG3	3	0.28
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	6	0.28
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	12	0.28
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	19	0.28
(1,3457)	2:174:B:ARG:HG2	2:175:B:ASP:HB2	10	0.28
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	3	0.28
(1,3393)	1:14:A:LYS:HA	1:14:A:LYS:HE3	1	0.28
(1,3393)	1:14:A:LYS:HA	1:14:A:LYS:HE3	2	0.28
(1,3393)	1:14:A:LYS:HA	1:14:A:LYS:HE3	20	0.28
(1,3240)	2:194:B:TYR:HB3	2:190:B:ASP:HB3	3	0.28
(1,3162)	2:146:B:ARG:H	2:146:B:ARG:HD3	6	0.28
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	6	0.28
(1,3084)	2:149:B:ILE:HG12	2:145:B:ALA:HA	5	0.28
(1,2940)	1:7:A:ILE:HG21	1:9:A:GLU:HA	11	0.28
(1,2896)	2:166:B:LEU:HB3	1:24:A:PHE:HA	4	0.28
(1,2896)	2:166:B:LEU:HB3	1:24:A:PHE:HA	12	0.28
(1,2621)	2:213:B:LYS:HE3	2:211:B:LYS:HA	10	0.28
(1,2505)	2:181:B:ILE:H	2:178:B:GLN:HA	1	0.28
(1,2505)	2:181:B:ILE:H	2:178:B:GLN:HA	7	0.28
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	17	0.28
(1,2421)	2:194:B:TYR:HE1	2:194:B:TYR:HA	1	0.28
(1,2421)	2:194:B:TYR:HE1	2:194:B:TYR:HA	16	0.28
(1,2420)	2:194:B:TYR:HE1	2:230:B:CYS:HA	4	0.28
(1,2413)	2:233:B:PHE:HE2	2:230:B:CYS:HA	6	0.28
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD13	5	0.28
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD11	6	0.28
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD11	7	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD11	10	0.28
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD12	11	0.28
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD12	12	0.28
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD12	16	0.28
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD12	20	0.28
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD11	3	0.28
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD12	4	0.28
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD13	5	0.28
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD13	7	0.28
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD13	9	0.28
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD11	17	0.28
(1,2278)	2:179:B:LEU:HG	2:180:B:CYS:HA	5	0.28
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD13	14	0.28
(1,2222)	2:240:B:SER:HB2	2:149:B:ILE:HD12	5	0.28
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD12	6	0.28
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD12	9	0.28
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD11	15	0.28
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD13	18	0.28
(1,2139)	2:219:B:ILE:H	2:219:B:ILE:HD13	20	0.28
(1,2087)	1:38:A:GLN:H	2:143:B:ILE:HD11	8	0.28
(1,2023)	1:16:A:VAL:HG23	1:9:A:GLU:H	1	0.28
(1,2020)	2:232:B:ILE:HG12	2:231:B:LEU:H	19	0.28
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	6	0.28
(1,1733)	2:187:B:LEU:HD22	2:188:B:ALA:H	2	0.28
(1,1733)	2:187:B:LEU:HD21	2:188:B:ALA:H	15	0.28
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	17	0.28
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	18	0.28
(1,1534)	2:156:B:LEU:HD22	2:162:B:THR:H	11	0.28
(1,1534)	2:156:B:LEU:HD22	2:162:B:THR:H	17	0.28
(1,1530)	1:35:A:VAL:HG22	1:9:A:GLU:H	5	0.28
(1,1530)	1:35:A:VAL:HG22	1:9:A:GLU:H	20	0.28
(1,1521)	1:7:A:ILE:HG22	1:37:A:GLN:H	16	0.28
(1,1519)	2:166:B:LEU:HB2	2:165:B:ASP:H	13	0.28
(1,1519)	2:168:B:LEU:HD13	2:165:B:ASP:H	17	0.28
(1,1518)	2:170:B:VAL:HG21	2:169:B:ASN:H	1	0.28
(1,1517)	2:162:B:THR:HG22	2:165:B:ASP:H	11	0.28
(1,1513)	2:227:B:ILE:HD11	2:224:B:LYS:H	1	0.28
(1,1513)	2:227:B:ILE:HD12	2:224:B:LYS:H	19	0.28
(1,1470)	2:184:B:ALA:HB2	2:231:B:LEU:H	12	0.28
(1,1470)	2:184:B:ALA:HB3	2:231:B:LEU:H	17	0.28
(1,1463)	2:191:B:GLU:HB2	2:195:B:ASN:H	20	0.28
(1,1458)	2:211:B:LYS:HD2	2:212:B:ALA:H	7	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1452)	2:145:B:ALA:HB3	2:147:B:GLU:H	20	0.28
(1,1078)	2:224:B:LYS:HB3	2:225:B:TYR:H	8	0.28
(1,1045)	2:171:B:PRO:HB3	2:181:B:ILE:H	1	0.28
(1,1038)	2:182:B:ARG:HG3	2:183:B:LEU:H	18	0.28
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	7	0.28
(1,860)	2:197:B:LEU:HA	2:199:B:LYS:H	6	0.28
(1,790)	2:222:B:ASN:H	2:225:B:TYR:H	10	0.28
(1,674)	2:232:B:ILE:HG23	2:238:B:ASN:H	7	0.28
(1,629)	2:231:B:LEU:HD12	2:230:B:CYS:H	5	0.28
(1,626)	2:214:B:VAL:HG13	2:215:B:HIS:H	2	0.28
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	1	0.28
(1,555)	2:193:B:MET:HB3	2:194:B:TYR:H	10	0.28
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	15	0.28
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	15	0.28
(1,388)	1:24:A:PHE:HD2	1:25:A:LEU:H	14	0.28
(1,278)	2:187:B:LEU:HD12	2:196:B:ALA:H	3	0.28
(1,278)	2:187:B:LEU:HD13	2:196:B:ALA:H	19	0.28
(1,269)	1:26:A:ILE:HG21	1:15:A:ALA:H	3	0.28
(1,269)	1:26:A:ILE:HG23	1:15:A:ALA:H	5	0.28
(1,269)	1:26:A:ILE:HG22	1:15:A:ALA:H	17	0.28
(1,269)	1:26:A:ILE:HG23	1:15:A:ALA:H	19	0.28
(1,189)	1:6:A:ILE:HD11	1:7:A:ILE:H	13	0.28
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	9	0.28
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE2	5	0.27
(1,6151)	2:247:B:TYR:H	2:246:B:TYR:HE1	19	0.27
(1,6117)	2:149:B:ILE:HG23	1:8:A:TYR:HD2	13	0.27
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE1	12	0.27
(1,6045)	2:166:B:LEU:HB2	2:225:B:TYR:HD1	14	0.27
(1,5948)	2:179:B:LEU:HA	2:182:B:ARG:HD3	7	0.27
(1,5904)	2:159:B:PHE:HA	2:227:B:ILE:HG22	11	0.27
(1,5892)	2:228:B:ALA:HB3	2:227:B:ILE:HG22	10	0.27
(1,5892)	2:228:B:ALA:HB1	2:227:B:ILE:HG23	20	0.27
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	9	0.27
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	16	0.27
(1,5877)	2:237:B:LEU:HB2	2:236:B:ASN:HA	6	0.27
(1,5853)	2:169:B:ASN:HB3	2:166:B:LEU:HD22	5	0.27
(1,5840)	2:147:B:GLU:HG3	2:145:B:ALA:HB1	16	0.27
(1,5753)	2:166:B:LEU:HD12	2:228:B:ALA:HA	7	0.27
(1,5721)	2:220:B:GLY:H	2:203:B:ILE:HD13	2	0.27
(1,5721)	2:220:B:GLY:H	2:203:B:ILE:HD11	3	0.27
(1,5721)	2:220:B:GLY:H	2:203:B:ILE:HD12	17	0.27
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG23	17	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG23	8	0.27
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE3	8	0.27
(1,5457)	2:187:B:LEU:H	2:193:B:MET:HE1	14	0.27
(1,5457)	2:187:B:LEU:H	2:193:B:MET:HE3	20	0.27
(1,5396)	2:227:B:ILE:HG22	2:228:B:ALA:HB3	10	0.27
(1,5396)	2:227:B:ILE:HG23	2:228:B:ALA:HB1	20	0.27
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB1	5	0.27
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD13	13	0.27
(1,5225)	2:183:B:LEU:HA	2:212:B:ALA:HB1	13	0.27
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD13	14	0.27
(1,5208)	1:5:A:GLY:HA2	1:19:A:THR:HG22	18	0.27
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG21	5	0.27
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG22	7	0.27
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG22	15	0.27
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD21	3	0.27
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG21	13	0.27
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD12	3	0.27
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD13	10	0.27
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD11	16	0.27
(1,4957)	2:230:B:CYS:HB2	2:208:B:LEU:HD11	8	0.27
(1,4892)	2:210:B:LYS:HA	2:210:B:LYS:HG2	19	0.27
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD13	8	0.27
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD11	18	0.27
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD23	1	0.27
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD23	12	0.27
(1,4770)	2:247:B:TYR:H	2:250:B:LEU:HD23	3	0.27
(1,4713)	2:144:B:GLU:H	2:239:B:LEU:HD21	19	0.27
(1,4679)	2:232:B:ILE:HG23	2:152:B:LEU:HD21	6	0.27
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD11	13	0.27
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD11	2	0.27
(1,4497)	1:23:A:GLU:HA	1:25:A:LEU:HD13	4	0.27
(1,4480)	2:162:B:THR:HB	2:164:B:LEU:HG	17	0.27
(1,4418)	2:233:B:PHE:HE1	2:185:B:LYS:HD2	10	0.27
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD11	17	0.27
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD12	20	0.27
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD21	13	0.27
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD22	16	0.27
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD21	13	0.27
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD12	4	0.27
(1,4266)	1:14:A:LYS:HG3	1:11:A:GLN:HB3	8	0.27
(1,4266)	2:219:B:ILE:HG22	2:223:B:ARG:HB3	9	0.27
(1,4259)	2:143:B:ILE:HG23	1:37:A:GLN:HB3	3	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4235)	2:151:B:GLU:HG3	2:154:B:LYS:HD2	13	0.27
(1,4020)	2:149:B:ILE:HG22	1:9:A:GLU:HB2	19	0.27
(1,4015)	1:25:A:LEU:HD21	1:23:A:GLU:HG3	16	0.27
(1,4005)	2:143:B:ILE:HG23	1:37:A:GLN:HG3	18	0.27
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	11	0.27
(1,3886)	2:225:B:TYR:HE2	2:170:B:VAL:HB	11	0.27
(1,3880)	2:163:B:PHE:HD1	1:16:A:VAL:HB	7	0.27
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	11	0.27
(1,3711)	2:211:B:LYS:HE3	2:207:B:GLU:HG2	7	0.27
(1,3695)	2:189:B:GLU:HA	2:189:B:GLU:HG3	18	0.27
(1,3675)	1:37:A:GLN:HA	2:144:B:GLU:HG2	5	0.27
(1,3591)	2:160:B:GLY:H	2:158:B:GLU:HG3	5	0.27
(1,3529)	1:43:A:ASN:H	1:42:A:GLU:HG2	3	0.27
(1,3529)	1:43:A:ASN:H	1:42:A:GLU:HG2	17	0.27
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	16	0.27
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	19	0.27
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	2	0.27
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	10	0.27
(1,3393)	1:14:A:LYS:HA	1:14:A:LYS:HE3	11	0.27
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	2	0.27
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	13	0.27
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	11	0.27
(1,2889)	2:186:B:MET:HB3	2:183:B:LEU:HA	6	0.27
(1,2728)	2:231:B:LEU:HD22	2:155:B:LYS:HA	18	0.27
(1,2713)	2:153:B:LYS:HG2	2:150:B:GLU:HA	18	0.27
(1,2658)	2:155:B:LYS:HG2	2:155:B:LYS:HA	14	0.27
(1,2505)	2:181:B:ILE:H	2:178:B:GLN:HA	3	0.27
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	13	0.27
(1,2422)	1:24:A:PHE:HD1	2:225:B:TYR:HA	19	0.27
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD11	1	0.27
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD13	2	0.27
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD13	3	0.27
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD12	8	0.27
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD12	14	0.27
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD12	8	0.27
(1,2317)	1:10:A:ILE:HB	1:10:A:ILE:HD13	11	0.27
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD11	6	0.27
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD12	18	0.27
(1,2235)	2:222:B:ASN:HB2	2:203:B:ILE:HD11	5	0.27
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD12	6	0.27
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD11	18	0.27
(1,2139)	2:219:B:ILE:H	2:219:B:ILE:HD11	17	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2116)	2:143:B:ILE:H	2:143:B:ILE:HD11	13	0.27
(1,2116)	2:143:B:ILE:H	2:143:B:ILE:HD11	16	0.27
(1,1961)	2:217:B:ARG:HD2	2:220:B:GLY:H	8	0.27
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	2	0.27
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	8	0.27
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	17	0.27
(1,1733)	2:187:B:LEU:HD21	2:188:B:ALA:H	10	0.27
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	10	0.27
(1,1674)	2:201:B:LYS:HE3	2:159:B:PHE:H	6	0.27
(1,1543)	1:17:A:VAL:HG13	1:9:A:GLU:H	2	0.27
(1,1540)	2:232:B:ILE:HG21	2:235:B:SER:H	2	0.27
(1,1540)	2:232:B:ILE:HG22	2:235:B:SER:H	20	0.27
(1,1530)	1:35:A:VAL:HG23	1:9:A:GLU:H	15	0.27
(1,1521)	1:7:A:ILE:HG21	1:37:A:GLN:H	4	0.27
(1,1521)	1:6:A:ILE:HG22	1:37:A:GLN:H	9	0.27
(1,1519)	2:168:B:LEU:HD13	2:165:B:ASP:H	11	0.27
(1,1517)	2:162:B:THR:HG22	2:165:B:ASP:H	15	0.27
(1,1514)	2:181:B:ILE:HD13	2:244:B:LEU:H	18	0.27
(1,1513)	2:227:B:ILE:HD12	2:224:B:LYS:H	3	0.27
(1,1513)	2:227:B:ILE:HD11	2:224:B:LYS:H	15	0.27
(1,1470)	2:232:B:ILE:HB	2:231:B:LEU:H	7	0.27
(1,1452)	2:145:B:ALA:HB3	2:147:B:GLU:H	3	0.27
(1,1452)	2:145:B:ALA:HB2	2:147:B:GLU:H	12	0.27
(1,1452)	2:145:B:ALA:HB3	2:147:B:GLU:H	14	0.27
(1,1428)	2:192:B:GLN:HB3	2:195:B:ASN:H	15	0.27
(1,1300)	2:177:B:ARG:HE	1:21:A:GLU:H	6	0.27
(1,1295)	2:194:B:TYR:HE2	2:195:B:ASN:H	2	0.27
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	8	0.27
(1,1167)	1:3:A:ARG:HG3	1:46:A:ILE:H	13	0.27
(1,1152)	2:161:B:ILE:HG22	2:225:B:TYR:H	11	0.27
(1,1141)	2:214:B:VAL:HG21	2:209:B:LYS:H	5	0.27
(1,1141)	2:214:B:VAL:HG22	2:209:B:LYS:H	7	0.27
(1,1130)	2:239:B:LEU:HD13	2:243:B:TYR:H	2	0.27
(1,1130)	2:239:B:LEU:HD12	2:243:B:TYR:H	3	0.27
(1,1078)	2:237:B:LEU:HB3	2:241:B:LYS:H	4	0.27
(1,1049)	2:242:B:ARG:HG3	2:243:B:TYR:H	8	0.27
(1,1049)	2:242:B:ARG:HG3	2:243:B:TYR:H	17	0.27
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	16	0.27
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	3	0.27
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	10	0.27
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	13	0.27
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	13	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,576)	2:208:B:LEU:HB3	2:207:B:GLU:H	13	0.27
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	12	0.27
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	19	0.27
(1,385)	1:41:A:PHE:HE1	1:6:A:ILE:H	15	0.27
(1,347)	2:200:B:ASN:HD21	2:197:B:LEU:H	16	0.27
(1,258)	2:241:B:LYS:HB3	2:237:B:LEU:H	9	0.27
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	3	0.27
(1,245)	1:11:A:GLN:HG3	1:15:A:ALA:H	16	0.27
(1,172)	1:35:A:VAL:HG12	2:146:B:ARG:H	1	0.27
(1,168)	2:143:B:ILE:HG12	2:144:B:GLU:H	9	0.27
(1,22)	1:26:A:ILE:HG23	1:47:A:TYR:H	5	0.27
(1,6207)	1:6:A:ILE:H	2:243:B:TYR:HE2	15	0.26
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE1	14	0.26
(1,6176)	2:230:B:CYS:HB2	2:194:B:TYR:HE1	3	0.26
(1,6176)	2:233:B:PHE:HB2	2:194:B:TYR:HE1	13	0.26
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE1	19	0.26
(1,6045)	2:166:B:LEU:HB2	2:225:B:TYR:HD1	5	0.26
(1,5940)	1:39:A:VAL:HG13	1:17:A:VAL:HG22	16	0.26
(1,5910)	1:10:A:ILE:HB	1:35:A:VAL:HG22	2	0.26
(1,5892)	2:228:B:ALA:HB2	2:227:B:ILE:HG21	5	0.26
(1,5840)	2:147:B:GLU:HG3	2:145:B:ALA:HB2	8	0.26
(1,5840)	2:204:B:PRO:HG2	2:196:B:ALA:HB1	15	0.26
(1,5769)	2:211:B:LYS:HD3	2:212:B:ALA:HA	19	0.26
(1,5721)	2:228:B:ALA:H	2:203:B:ILE:HD11	10	0.26
(1,5661)	2:227:B:ILE:HG12	2:203:B:ILE:HG22	4	0.26
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG21	5	0.26
(1,5610)	2:205:B:ARG:HD2	2:203:B:ILE:HG21	8	0.26
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE2	13	0.26
(1,5499)	1:38:A:GLN:HE22	1:6:A:ILE:HG22	10	0.26
(1,5426)	2:183:B:LEU:H	2:186:B:MET:HE2	15	0.26
(1,5396)	2:227:B:ILE:HG21	2:228:B:ALA:HB2	5	0.26
(1,5372)	1:26:A:ILE:HD12	2:167:B:VAL:HG11	18	0.26
(1,5361)	2:244:B:LEU:HG	1:18:A:LEU:HD13	6	0.26
(1,5342)	2:164:B:LEU:HB2	2:162:B:THR:HG21	20	0.26
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD11	8	0.26
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG22	13	0.26
(1,5225)	2:183:B:LEU:HA	2:212:B:ALA:HB3	5	0.26
(1,5208)	1:5:A:GLY:HA2	1:19:A:THR:HG23	7	0.26
(1,5191)	1:24:A:PHE:HE1	2:244:B:LEU:HD23	13	0.26
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG21	18	0.26
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD23	11	0.26
(1,4893)	2:154:B:LYS:HA	2:154:B:LYS:HG3	3	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4892)	2:210:B:LYS:HA	2:210:B:LYS:HG3	8	0.26
(1,4882)	1:34:A:LYS:HA	1:35:A:VAL:HG22	9	0.26
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD12	5	0.26
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD12	4	0.26
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD12	15	0.26
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD22	8	0.26
(1,4643)	2:167:B:VAL:HG13	2:168:B:LEU:HG	18	0.26
(1,4629)	2:226:B:ILE:HG13	2:229:B:LEU:HD23	15	0.26
(1,4615)	2:153:B:LYS:HB3	2:151:B:GLU:HB2	5	0.26
(1,4615)	2:153:B:LYS:HB3	2:151:B:GLU:HB2	9	0.26
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD13	6	0.26
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD22	15	0.26
(1,4515)	2:223:B:ARG:HA	2:223:B:ARG:HG2	1	0.26
(1,4515)	2:223:B:ARG:HA	2:223:B:ARG:HG2	3	0.26
(1,4478)	1:34:A:LYS:HA	1:7:A:ILE:HG12	20	0.26
(1,4418)	2:233:B:PHE:HE2	2:185:B:LYS:HD2	8	0.26
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD23	5	0.26
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD11	13	0.26
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD22	19	0.26
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD23	5	0.26
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD23	14	0.26
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD13	3	0.26
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD13	8	0.26
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD11	11	0.26
(1,4173)	1:34:A:LYS:HA	1:34:A:LYS:HD2	13	0.26
(1,4020)	1:16:A:VAL:HG23	1:9:A:GLU:HB2	2	0.26
(1,3963)	1:32:A:ASP:HB3	1:33:A:MET:HG3	3	0.26
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	6	0.26
(1,3789)	1:26:A:ILE:HG23	1:14:A:LYS:HB3	20	0.26
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	3	0.26
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	6	0.26
(1,3775)	1:16:A:VAL:HG22	1:9:A:GLU:HG2	15	0.26
(1,3742)	2:145:B:ALA:HB1	2:147:B:GLU:HG2	6	0.26
(1,3713)	2:154:B:LYS:HE3	2:151:B:GLU:HG2	16	0.26
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	12	0.26
(1,3393)	1:14:A:LYS:HA	1:14:A:LYS:HE3	5	0.26
(1,3393)	1:14:A:LYS:HA	1:14:A:LYS:HE3	18	0.26
(1,3240)	2:194:B:TYR:HB3	2:190:B:ASP:HB3	19	0.26
(1,3215)	1:29:A:ARG:HA	1:30:A:ARG:HD3	15	0.26
(1,3161)	2:146:B:ARG:H	2:146:B:ARG:HD3	12	0.26
(1,3067)	2:146:B:ARG:HB3	2:145:B:ALA:HA	10	0.26
(1,3063)	1:34:A:LYS:HD2	1:34:A:LYS:HA	13	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	9	0.26
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	10	0.26
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	13	0.26
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	16	0.26
(1,2889)	2:186:B:MET:HB3	2:183:B:LEU:HA	16	0.26
(1,2728)	2:231:B:LEU:HD22	2:155:B:LYS:HA	16	0.26
(1,2714)	2:229:B:LEU:HB3	2:241:B:LYS:HA	8	0.26
(1,2667)	2:161:B:ILE:HG12	2:224:B:LYS:HA	20	0.26
(1,2564)	1:33:A:MET:H	1:31:A:LYS:HA	1	0.26
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	3	0.26
(1,2422)	1:24:A:PHE:HD2	2:225:B:TYR:HA	12	0.26
(1,2421)	2:194:B:TYR:HE2	2:194:B:TYR:HA	15	0.26
(1,2369)	2:149:B:ILE:HD11	1:35:A:VAL:HA	6	0.26
(1,2369)	2:149:B:ILE:HD12	1:35:A:VAL:HA	19	0.26
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD13	4	0.26
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD11	17	0.26
(1,2320)	2:149:B:ILE:HB	2:149:B:ILE:HD13	18	0.26
(1,2300)	1:23:A:GLU:HG3	2:181:B:ILE:HD13	6	0.26
(1,2300)	2:177:B:ARG:HG2	2:181:B:ILE:HD12	18	0.26
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD13	1	0.26
(1,2258)	2:153:B:LYS:HB2	2:149:B:ILE:HA	6	0.26
(1,2184)	2:152:B:LEU:HA	2:149:B:ILE:HA	11	0.26
(1,2146)	2:163:B:PHE:HE2	2:232:B:ILE:HD12	1	0.26
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD12	11	0.26
(1,2024)	2:218:B:THR:HG22	2:180:B:CYS:H	18	0.26
(1,1991)	1:25:A:LEU:HD12	1:49:A:VAL:H	2	0.26
(1,1965)	2:219:B:ILE:HG23	2:220:B:GLY:H	8	0.26
(1,1965)	2:219:B:ILE:HG22	2:220:B:GLY:H	19	0.26
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	4	0.26
(1,1643)	2:211:B:LYS:HE2	2:192:B:GLN:H	6	0.26
(1,1588)	2:243:B:TYR:HD2	1:19:A:THR:H	14	0.26
(1,1530)	1:35:A:VAL:HG22	1:9:A:GLU:H	14	0.26
(1,1519)	2:168:B:LEU:HD12	2:165:B:ASP:H	15	0.26
(1,1514)	2:181:B:ILE:HD12	2:244:B:LEU:H	1	0.26
(1,1489)	1:29:A:ARG:HG3	1:33:A:MET:H	17	0.26
(1,1478)	2:234:B:ARG:HB2	2:235:B:SER:H	20	0.26
(1,1470)	2:184:B:ALA:HB1	2:231:B:LEU:H	6	0.26
(1,1452)	2:145:B:ALA:HB2	2:147:B:GLU:H	9	0.26
(1,1445)	1:30:A:ARG:HB3	1:33:A:MET:H	8	0.26
(1,1442)	1:49:A:VAL:HB	2:168:B:LEU:H	9	0.26
(1,1300)	2:243:B:TYR:HE1	1:21:A:GLU:H	9	0.26
(1,1152)	2:161:B:ILE:HG23	2:225:B:TYR:H	13	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1152)	2:161:B:ILE:HG23	2:225:B:TYR:H	19	0.26
(1,1080)	2:144:B:GLU:HB3	2:143:B:ILE:H	5	0.26
(1,1078)	2:224:B:LYS:HB3	2:225:B:TYR:H	1	0.26
(1,1016)	2:238:B:ASN:HB2	2:242:B:ARG:H	12	0.26
(1,971)	2:210:B:LYS:HE3	2:211:B:LYS:H	8	0.26
(1,957)	2:195:B:ASN:HB3	2:199:B:LYS:H	14	0.26
(1,955)	2:154:B:LYS:HE2	2:154:B:LYS:H	8	0.26
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	1	0.26
(1,672)	2:156:B:LEU:HD12	2:155:B:LYS:H	13	0.26
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	5	0.26
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	12	0.26
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	18	0.26
(1,388)	1:24:A:PHE:HD1	1:25:A:LEU:H	6	0.26
(1,388)	1:24:A:PHE:HD2	1:25:A:LEU:H	13	0.26
(1,347)	2:200:B:ASN:HD21	2:197:B:LEU:H	13	0.26
(1,347)	2:200:B:ASN:HD21	2:197:B:LEU:H	14	0.26
(1,278)	2:187:B:LEU:HD13	2:196:B:ALA:H	12	0.26
(1,273)	1:49:A:VAL:HG21	1:50:A:ARG:H	17	0.26
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	13	0.26
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	17	0.26
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	4	0.26
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	18	0.26
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	20	0.26
(1,189)	1:6:A:ILE:HD12	1:7:A:ILE:H	1	0.26
(1,189)	1:6:A:ILE:HD11	1:7:A:ILE:H	16	0.26
(1,189)	1:6:A:ILE:HD13	1:7:A:ILE:H	20	0.26
(1,179)	1:15:A:ALA:HB2	1:29:A:ARG:H	16	0.26
(1,168)	2:143:B:ILE:HG12	2:144:B:GLU:H	10	0.26
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	19	0.26
(1,22)	1:26:A:ILE:HG21	1:47:A:TYR:H	3	0.26
(1,7)	1:35:A:VAL:HG11	1:8:A:TYR:H	17	0.26
(1,7)	1:35:A:VAL:HG13	1:8:A:TYR:H	19	0.26
(1,6236)	1:6:A:ILE:HG21	1:8:A:TYR:HE1	8	0.25
(1,6192)	2:197:B:LEU:HG	2:194:B:TYR:HE1	9	0.25
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE2	18	0.25
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE2	9	0.25
(1,6147)	1:15:A:ALA:H	1:47:A:TYR:HE2	19	0.25
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE1	13	0.25
(1,6042)	2:161:B:ILE:HD11	2:159:B:PHE:HD1	2	0.25
(1,6042)	2:161:B:ILE:HD12	2:159:B:PHE:HD2	16	0.25
(1,5892)	2:228:B:ALA:HB2	2:227:B:ILE:HG21	13	0.25
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	3	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	19	0.25
(1,5753)	2:166:B:LEU:HD13	2:228:B:ALA:HA	1	0.25
(1,5746)	2:189:B:GLU:HB2	2:185:B:LYS:HA	4	0.25
(1,5683)	2:183:B:LEU:HB3	2:203:B:ILE:HG23	10	0.25
(1,5661)	2:208:B:LEU:HG	2:203:B:ILE:HG22	8	0.25
(1,5629)	2:150:B:GLU:HG2	2:149:B:ILE:HG23	20	0.25
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB1	4	0.25
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE2	17	0.25
(1,5500)	2:225:B:TYR:HD1	2:226:B:ILE:HG23	9	0.25
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE1	3	0.25
(1,5449)	2:209:B:LYS:H	2:203:B:ILE:HG22	19	0.25
(1,5432)	2:200:B:ASN:H	2:196:B:ALA:HB2	5	0.25
(1,5432)	2:200:B:ASN:H	2:196:B:ALA:HB2	9	0.25
(1,5396)	2:227:B:ILE:HG21	2:228:B:ALA:HB2	13	0.25
(1,5343)	1:29:A:ARG:HG3	1:15:A:ALA:HB1	9	0.25
(1,5315)	2:226:B:ILE:HG13	2:218:B:THR:HG21	5	0.25
(1,5315)	2:183:B:LEU:HB2	2:218:B:THR:HG23	9	0.25
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB3	1	0.25
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD22	15	0.25
(1,4971)	2:158:B:GLU:HG2	2:154:B:LYS:HG3	11	0.25
(1,4957)	2:230:B:CYS:HB2	2:208:B:LEU:HD11	1	0.25
(1,4877)	2:247:B:TYR:HA	2:250:B:LEU:HD21	2	0.25
(1,4851)	1:24:A:PHE:HE2	2:166:B:LEU:HD21	17	0.25
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD23	5	0.25
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD13	9	0.25
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD23	2	0.25
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD21	18	0.25
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD12	1	0.25
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD12	14	0.25
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD23	6	0.25
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	4	0.25
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	11	0.25
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD13	11	0.25
(1,4545)	2:213:B:LYS:HE2	2:213:B:LYS:HB3	6	0.25
(1,4497)	1:23:A:GLU:HA	1:25:A:LEU:HD13	9	0.25
(1,4418)	2:233:B:PHE:HE1	2:185:B:LYS:HD2	3	0.25
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD11	4	0.25
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD13	10	0.25
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD23	13	0.25
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD23	16	0.25
(1,4316)	2:180:B:CYS:H	2:177:B:ARG:HG2	13	0.25
(1,4266)	2:219:B:ILE:HG21	2:223:B:ARG:HB3	5	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4261)	1:34:A:LYS:HG2	1:37:A:GLN:HB2	16	0.25
(1,4259)	2:143:B:ILE:HG21	1:37:A:GLN:HB3	6	0.25
(1,4195)	2:207:B:GLU:HA	2:210:B:LYS:HD3	19	0.25
(1,4173)	1:34:A:LYS:HA	1:34:A:LYS:HD2	16	0.25
(1,4089)	2:220:B:GLY:H	2:217:B:ARG:HB2	3	0.25
(1,4089)	2:220:B:GLY:H	2:217:B:ARG:HB2	12	0.25
(1,4015)	1:25:A:LEU:HD23	1:23:A:GLU:HG3	17	0.25
(1,3955)	1:32:A:ASP:HB2	1:31:A:LYS:HB3	11	0.25
(1,3928)	1:49:A:VAL:HA	1:49:A:VAL:HB	8	0.25
(1,3919)	2:171:B:PRO:HA	2:172:B:LYS:HB2	3	0.25
(1,3789)	1:26:A:ILE:HG23	1:14:A:LYS:HB3	11	0.25
(1,3757)	2:241:B:LYS:HG3	2:245:B:GLU:HG3	18	0.25
(1,3695)	2:189:B:GLU:HA	2:189:B:GLU:HG3	1	0.25
(1,3695)	2:189:B:GLU:HA	2:189:B:GLU:HG3	2	0.25
(1,3695)	2:189:B:GLU:HA	2:189:B:GLU:HG3	12	0.25
(1,3441)	2:181:B:ILE:HG12	2:229:B:LEU:HB2	8	0.25
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	7	0.25
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	12	0.25
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	19	0.25
(1,3393)	1:14:A:LYS:HA	1:14:A:LYS:HE3	4	0.25
(1,3393)	1:14:A:LYS:HA	1:14:A:LYS:HE3	13	0.25
(1,3248)	2:192:B:GLN:HB2	2:190:B:ASP:HB2	20	0.25
(1,3063)	1:34:A:LYS:HD2	1:34:A:LYS:HA	16	0.25
(1,2979)	2:227:B:ILE:HG22	2:231:B:LEU:HA	10	0.25
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	4	0.25
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	7	0.25
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	17	0.25
(1,2889)	2:186:B:MET:HB3	2:183:B:LEU:HA	9	0.25
(1,2889)	2:186:B:MET:HB3	2:183:B:LEU:HA	11	0.25
(1,2803)	2:169:B:ASN:HD22	2:166:B:LEU:HA	5	0.25
(1,2728)	2:231:B:LEU:HD22	2:155:B:LYS:HA	1	0.25
(1,2719)	2:237:B:LEU:HD12	2:146:B:ARG:HA	1	0.25
(1,2719)	2:237:B:LEU:HD12	2:146:B:ARG:HA	15	0.25
(1,2658)	2:155:B:LYS:HG2	2:155:B:LYS:HA	13	0.25
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	12	0.25
(1,2564)	1:33:A:MET:H	1:31:A:LYS:HA	2	0.25
(1,2506)	2:245:B:GLU:H	2:242:B:ARG:HA	14	0.25
(1,2505)	2:195:B:ASN:H	2:191:B:GLU:HA	10	0.25
(1,2505)	2:181:B:ILE:H	2:178:B:GLN:HA	20	0.25
(1,2447)	1:49:A:VAL:HB	1:49:A:VAL:HA	8	0.25
(1,2413)	1:9:A:GLU:H	1:7:A:ILE:HA	2	0.25
(1,2413)	2:233:B:PHE:HE2	2:230:B:CYS:HA	4	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2333)	2:226:B:ILE:HG22	2:180:B:CYS:HA	17	0.25
(1,2300)	1:23:A:GLU:HG3	2:181:B:ILE:HD13	20	0.25
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD13	8	0.25
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD13	14	0.25
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD11	14	0.25
(1,2139)	2:159:B:PHE:HD1	2:161:B:ILE:HD11	2	0.25
(1,2139)	2:159:B:PHE:HD2	2:161:B:ILE:HD12	16	0.25
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD12	19	0.25
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD11	1	0.25
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD13	2	0.25
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD11	13	0.25
(1,2024)	2:218:B:THR:HG23	2:180:B:CYS:H	11	0.25
(1,1961)	2:205:B:ARG:HD2	2:220:B:GLY:H	11	0.25
(1,1948)	2:181:B:ILE:HD13	2:248:B:THR:H	10	0.25
(1,1948)	2:181:B:ILE:HD11	2:248:B:THR:H	20	0.25
(1,1918)	2:214:B:VAL:HG11	2:214:B:VAL:H	11	0.25
(1,1918)	2:214:B:VAL:HG11	2:214:B:VAL:H	16	0.25
(1,1829)	1:17:A:VAL:HB	1:20:A:SER:H	15	0.25
(1,1739)	2:219:B:ILE:HG22	2:222:B:ASN:H	6	0.25
(1,1728)	2:226:B:ILE:HG21	2:229:B:LEU:H	19	0.25
(1,1674)	2:158:B:GLU:HG2	2:159:B:PHE:H	20	0.25
(1,1521)	1:7:A:ILE:HG23	1:37:A:GLN:H	15	0.25
(1,1521)	1:7:A:ILE:HG22	1:37:A:GLN:H	17	0.25
(1,1521)	1:7:A:ILE:HG21	1:37:A:GLN:H	19	0.25
(1,1519)	2:168:B:LEU:HD13	2:165:B:ASP:H	2	0.25
(1,1513)	2:227:B:ILE:HD12	2:224:B:LYS:H	11	0.25
(1,1485)	2:177:B:ARG:HG3	2:176:B:SER:H	13	0.25
(1,1452)	2:145:B:ALA:HB3	2:147:B:GLU:H	10	0.25
(1,1452)	2:145:B:ALA:HB1	2:147:B:GLU:H	13	0.25
(1,1428)	2:192:B:GLN:HB3	2:195:B:ASN:H	14	0.25
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	12	0.25
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	18	0.25
(1,1132)	2:164:B:LEU:HD21	2:164:B:LEU:H	11	0.25
(1,1132)	2:164:B:LEU:HD23	2:164:B:LEU:H	15	0.25
(1,1080)	2:144:B:GLU:HB3	2:143:B:ILE:H	7	0.25
(1,1049)	2:242:B:ARG:HG3	2:243:B:TYR:H	13	0.25
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	7	0.25
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	18	0.25
(1,910)	2:232:B:ILE:HA	2:241:B:LYS:H	15	0.25
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	20	0.25
(1,629)	2:231:B:LEU:HD11	2:230:B:CYS:H	20	0.25
(1,626)	2:214:B:VAL:HG11	2:215:B:HIS:H	6	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,621)	1:25:A:LEU:HD11	1:25:A:LEU:H	16	0.25
(1,576)	2:188:B:ALA:HB1	2:230:B:CYS:H	9	0.25
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	3	0.25
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	7	0.25
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	14	0.25
(1,393)	1:24:A:PHE:HD1	2:170:B:VAL:H	14	0.25
(1,271)	1:49:A:VAL:HG11	1:48:A:ASN:H	4	0.25
(1,271)	1:49:A:VAL:HG12	1:48:A:ASN:H	4	0.25
(1,271)	1:49:A:VAL:HG13	1:48:A:ASN:H	4	0.25
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	5	0.25
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	8	0.25
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	9	0.25
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	14	0.25
(1,173)	1:10:A:ILE:HD13	1:10:A:ILE:H	5	0.25
(1,62)	2:219:B:ILE:HG23	2:205:B:ARG:H	6	0.25
(1,62)	2:219:B:ILE:HG23	2:205:B:ARG:H	9	0.25
(1,7)	1:35:A:VAL:HG13	1:8:A:TYR:H	7	0.25
(1,7)	1:35:A:VAL:HG13	1:8:A:TYR:H	12	0.25
(1,6228)	2:237:B:LEU:HB2	1:8:A:TYR:HE2	19	0.24
(1,6207)	1:5:A:GLY:H	2:243:B:TYR:HE1	6	0.24
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE1	4	0.24
(1,6192)	2:188:B:ALA:HB3	2:194:B:TYR:HE2	8	0.24
(1,6117)	2:149:B:ILE:HG23	1:8:A:TYR:HD2	9	0.24
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE1	14	0.24
(1,5966)	2:176:B:SER:HA	2:173:B:HIS:HE1	20	0.24
(1,5962)	2:156:B:LEU:HG	2:161:B:ILE:HD12	7	0.24
(1,5910)	1:10:A:ILE:HB	1:35:A:VAL:HG23	6	0.24
(1,5910)	2:146:B:ARG:HG3	1:35:A:VAL:HG21	9	0.24
(1,5888)	1:17:A:VAL:HG21	1:19:A:THR:HA	12	0.24
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	10	0.24
(1,5853)	2:169:B:ASN:HB3	2:166:B:LEU:HD23	18	0.24
(1,5852)	2:225:B:TYR:HE2	2:170:B:VAL:HG12	3	0.24
(1,5775)	1:4:A:LEU:HD11	1:3:A:ARG:HD2	8	0.24
(1,5769)	2:211:B:LYS:HD3	2:212:B:ALA:HA	5	0.24
(1,5617)	1:13:A:MET:HB3	1:13:A:MET:HE1	4	0.24
(1,5608)	1:36:A:GLY:HA2	1:6:A:ILE:HG23	15	0.24
(1,5449)	2:207:B:GLU:H	2:203:B:ILE:HG21	6	0.24
(1,5429)	2:185:B:LYS:H	2:186:B:MET:HE2	9	0.24
(1,5429)	2:185:B:LYS:H	2:186:B:MET:HE1	20	0.24
(1,5392)	2:166:B:LEU:HD11	1:16:A:VAL:HG11	12	0.24
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD12	4	0.24
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB2	10	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD11	10	0.24
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD13	20	0.24
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG22	16	0.24
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG22	20	0.24
(1,4957)	2:230:B:CYS:HB2	2:208:B:LEU:HD13	2	0.24
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD21	16	0.24
(1,4893)	2:154:B:LYS:HA	2:154:B:LYS:HG3	2	0.24
(1,4892)	2:211:B:LYS:HA	2:210:B:LYS:HG3	3	0.24
(1,4838)	2:178:B:GLN:HE21	2:248:B:THR:HG22	8	0.24
(1,4801)	2:159:B:PHE:HZ	2:155:B:LYS:HG3	9	0.24
(1,4786)	2:159:B:PHE:H	2:231:B:LEU:HD23	4	0.24
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD11	2	0.24
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD12	4	0.24
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD12	8	0.24
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD12	16	0.24
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD23	2	0.24
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD22	14	0.24
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD13	1	0.24
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD13	7	0.24
(1,4592)	2:142:B:ASP:HB2	2:143:B:ILE:HG13	17	0.24
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD21	16	0.24
(1,4545)	2:213:B:LYS:HE2	2:213:B:LYS:HB3	2	0.24
(1,4545)	2:213:B:LYS:HE2	2:213:B:LYS:HB3	13	0.24
(1,4497)	1:23:A:GLU:HA	1:25:A:LEU:HD13	3	0.24
(1,4478)	1:34:A:LYS:HA	1:7:A:ILE:HG12	1	0.24
(1,4478)	1:34:A:LYS:HA	1:7:A:ILE:HG12	6	0.24
(1,4410)	1:9:A:GLU:H	1:7:A:ILE:HG12	12	0.24
(1,4409)	1:9:A:GLU:H	1:7:A:ILE:HG12	12	0.24
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD21	1	0.24
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD22	9	0.24
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD13	7	0.24
(1,4296)	1:15:A:ALA:H	1:14:A:LYS:HD3	7	0.24
(1,4266)	1:14:A:LYS:HG3	1:11:A:GLN:HB3	13	0.24
(1,4261)	1:34:A:LYS:HG2	1:37:A:GLN:HB2	20	0.24
(1,4173)	1:34:A:LYS:HA	1:34:A:LYS:HD2	14	0.24
(1,4173)	1:34:A:LYS:HA	1:34:A:LYS:HD2	20	0.24
(1,4102)	2:231:B:LEU:H	2:234:B:ARG:HB2	13	0.24
(1,3978)	2:153:B:LYS:HD2	2:157:B:GLN:HG2	6	0.24
(1,3800)	2:185:B:LYS:HG3	2:245:B:GLU:HG3	12	0.24
(1,3739)	2:196:B:ALA:HB3	2:195:B:ASN:HB2	19	0.24
(1,3716)	1:3:A:ARG:HD2	1:21:A:GLU:HG3	17	0.24
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	14	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	13	0.24
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	7	0.24
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	8	0.24
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	17	0.24
(1,3283)	1:4:A:LEU:HD11	1:3:A:ARG:HD2	8	0.24
(1,3240)	2:194:B:TYR:HB3	2:190:B:ASP:HB3	11	0.24
(1,3090)	2:237:B:LEU:HD11	2:144:B:GLU:HA	15	0.24
(1,3067)	2:146:B:ARG:HB3	2:145:B:ALA:HA	12	0.24
(1,3067)	2:146:B:ARG:HB3	2:145:B:ALA:HA	13	0.24
(1,3065)	2:146:B:ARG:HB2	2:145:B:ALA:HA	17	0.24
(1,3063)	1:34:A:LYS:HD2	1:34:A:LYS:HA	14	0.24
(1,3063)	1:34:A:LYS:HD2	1:34:A:LYS:HA	20	0.24
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	3	0.24
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	8	0.24
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	14	0.24
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	20	0.24
(1,2889)	2:186:B:MET:HB3	2:183:B:LEU:HA	15	0.24
(1,2719)	2:237:B:LEU:HD11	2:146:B:ARG:HA	11	0.24
(1,2667)	2:161:B:ILE:HG12	2:224:B:LYS:HA	4	0.24
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	6	0.24
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	7	0.24
(1,2422)	2:225:B:TYR:HE2	2:225:B:TYR:HA	17	0.24
(1,2421)	2:194:B:TYR:HE2	2:194:B:TYR:HA	12	0.24
(1,2421)	2:194:B:TYR:HE1	2:194:B:TYR:HA	14	0.24
(1,2329)	2:226:B:ILE:HD11	2:218:B:THR:HA	15	0.24
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD11	16	0.24
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD13	12	0.24
(1,2184)	2:152:B:LEU:HA	2:149:B:ILE:HA	6	0.24
(1,2116)	2:143:B:ILE:H	2:143:B:ILE:HD11	14	0.24
(1,2086)	2:208:B:LEU:H	2:219:B:ILE:HD11	8	0.24
(1,1918)	2:214:B:VAL:HG11	2:214:B:VAL:H	7	0.24
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	14	0.24
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	4	0.24
(1,1674)	2:158:B:GLU:HG2	2:159:B:PHE:H	8	0.24
(1,1674)	2:158:B:GLU:HG2	2:159:B:PHE:H	14	0.24
(1,1643)	2:195:B:ASN:HB3	2:192:B:GLN:H	19	0.24
(1,1530)	1:35:A:VAL:HG23	1:9:A:GLU:H	13	0.24
(1,1521)	1:7:A:ILE:HG21	1:37:A:GLN:H	12	0.24
(1,1519)	2:168:B:LEU:HD12	2:165:B:ASP:H	6	0.24
(1,1470)	2:184:B:ALA:HB2	2:231:B:LEU:H	14	0.24
(1,1463)	2:191:B:GLU:HB2	2:195:B:ASN:H	18	0.24
(1,1428)	2:192:B:GLN:HB3	2:195:B:ASN:H	6	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1428)	2:192:B:GLN:HB3	2:195:B:ASN:H	18	0.24
(1,1413)	1:20:A:SER:HB3	1:3:A:ARG:HE	2	0.24
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	15	0.24
(1,1168)	1:46:A:ILE:HD12	1:46:A:ILE:H	20	0.24
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	9	0.24
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	13	0.24
(1,1141)	2:214:B:VAL:HG22	2:209:B:LYS:H	12	0.24
(1,1080)	2:144:B:GLU:HB3	2:143:B:ILE:H	14	0.24
(1,1078)	2:237:B:LEU:HB3	2:241:B:LYS:H	15	0.24
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	18	0.24
(1,1037)	2:184:B:ALA:HB1	2:183:B:LEU:H	13	0.24
(1,1016)	2:238:B:ASN:HB2	2:242:B:ARG:H	19	0.24
(1,971)	2:210:B:LYS:HE3	2:211:B:LYS:H	6	0.24
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	3	0.24
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	5	0.24
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	14	0.24
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	9	0.24
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	15	0.24
(1,777)	2:225:B:TYR:HD1	2:181:B:ILE:H	10	0.24
(1,629)	2:231:B:LEU:HD12	2:230:B:CYS:H	12	0.24
(1,626)	2:214:B:VAL:HG13	2:215:B:HIS:H	5	0.24
(1,626)	2:214:B:VAL:HG12	2:215:B:HIS:H	13	0.24
(1,626)	2:214:B:VAL:HG11	2:215:B:HIS:H	17	0.24
(1,626)	2:214:B:VAL:HG11	2:215:B:HIS:H	20	0.24
(1,576)	2:210:B:LYS:HG2	2:207:B:GLU:H	10	0.24
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	11	0.24
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	16	0.24
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	3	0.24
(1,402)	1:19:A:THR:HB	1:6:A:ILE:H	2	0.24
(1,393)	1:24:A:PHE:HD1	2:170:B:VAL:H	19	0.24
(1,347)	2:200:B:ASN:HD21	2:197:B:LEU:H	19	0.24
(1,278)	2:187:B:LEU:HD13	2:196:B:ALA:H	1	0.24
(1,273)	1:49:A:VAL:HG21	1:50:A:ARG:H	9	0.24
(1,267)	2:203:B:ILE:HG13	2:203:B:ILE:H	4	0.24
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	14	0.24
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	13	0.24
(1,189)	1:6:A:ILE:HD13	1:7:A:ILE:H	2	0.24
(1,189)	1:6:A:ILE:HD13	1:7:A:ILE:H	10	0.24
(1,179)	1:27:A:ILE:HG13	1:29:A:ARG:H	1	0.24
(1,177)	1:7:A:ILE:HD11	1:30:A:ARG:H	13	0.24
(1,168)	2:143:B:ILE:HG12	2:144:B:GLU:H	11	0.24
(1,43)	2:144:B:GLU:HG2	2:145:B:ALA:H	16	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6227)	1:6:A:ILE:HB	1:8:A:TYR:HE2	7	0.23
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE2	19	0.23
(1,6192)	2:188:B:ALA:HB3	2:194:B:TYR:HE2	12	0.23
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE1	12	0.23
(1,6184)	2:172:B:LYS:HB2	2:173:B:HIS:HD2	15	0.23
(1,6151)	1:29:A:ARG:H	1:47:A:TYR:HE2	1	0.23
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE1	5	0.23
(1,6117)	2:149:B:ILE:HG22	1:8:A:TYR:HD2	17	0.23
(1,6042)	2:161:B:ILE:HD11	2:159:B:PHE:HD2	11	0.23
(1,5948)	2:179:B:LEU:HA	2:182:B:ARG:HD3	15	0.23
(1,5914)	1:18:A:LEU:HD22	2:240:B:SER:HB2	20	0.23
(1,5892)	2:228:B:ALA:HB1	2:227:B:ILE:HG22	1	0.23
(1,5892)	2:228:B:ALA:HB2	2:227:B:ILE:HG23	14	0.23
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	15	0.23
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	18	0.23
(1,5864)	2:187:B:LEU:HA	2:186:B:MET:HG3	20	0.23
(1,5721)	2:220:B:GLY:H	2:203:B:ILE:HD13	16	0.23
(1,5713)	2:201:B:LYS:HA	2:227:B:ILE:HG21	18	0.23
(1,5661)	2:187:B:LEU:HG	2:203:B:ILE:HG23	13	0.23
(1,5629)	2:150:B:GLU:HG2	2:149:B:ILE:HG23	17	0.23
(1,5608)	1:36:A:GLY:HA2	1:6:A:ILE:HG21	2	0.23
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB3	17	0.23
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE2	11	0.23
(1,5526)	1:38:A:GLN:HA	1:39:A:VAL:HG13	12	0.23
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE2	15	0.23
(1,5396)	2:227:B:ILE:HG22	2:228:B:ALA:HB1	1	0.23
(1,5396)	2:227:B:ILE:HG23	2:228:B:ALA:HB2	14	0.23
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB2	14	0.23
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG22	1	0.23
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG22	7	0.23
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG23	14	0.23
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG23	19	0.23
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD12	1	0.23
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG22	13	0.23
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG22	15	0.23
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD23	9	0.23
(1,4994)	1:7:A:ILE:HB	1:35:A:VAL:HG23	15	0.23
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG21	13	0.23
(1,4893)	2:210:B:LYS:HA	2:209:B:LYS:HG2	13	0.23
(1,4877)	2:247:B:TYR:HA	2:250:B:LEU:HD23	8	0.23
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD11	11	0.23
(1,4786)	2:159:B:PHE:H	2:231:B:LEU:HD21	19	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD11	5	0.23
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD13	6	0.23
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD23	15	0.23
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD21	13	0.23
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD13	6	0.23
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	3	0.23
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	6	0.23
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	16	0.23
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD11	9	0.23
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD13	11	0.23
(1,4577)	1:22:A:GLY:HA2	2:244:B:LEU:HD11	17	0.23
(1,4577)	1:22:A:GLY:HA2	2:244:B:LEU:HD13	19	0.23
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD22	4	0.23
(1,4546)	1:43:A:ASN:HB3	1:44:A:GLU:HB2	2	0.23
(1,4515)	2:223:B:ARG:HA	2:223:B:ARG:HG2	9	0.23
(1,4418)	2:233:B:PHE:HE2	2:185:B:LYS:HD2	12	0.23
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD22	2	0.23
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD22	3	0.23
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD22	12	0.23
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD12	14	0.23
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD12	16	0.23
(1,4391)	1:37:A:GLN:HE21	1:7:A:ILE:HG13	10	0.23
(1,4346)	2:230:B:CYS:H	2:187:B:LEU:HD21	17	0.23
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD11	9	0.23
(1,4261)	1:34:A:LYS:HG2	1:37:A:GLN:HB2	15	0.23
(1,4173)	1:34:A:LYS:HA	1:34:A:LYS:HD2	1	0.23
(1,4173)	1:34:A:LYS:HA	1:34:A:LYS:HD2	18	0.23
(1,4126)	2:210:B:LYS:H	2:210:B:LYS:HD2	10	0.23
(1,4014)	1:25:A:LEU:HD23	1:23:A:GLU:HG2	17	0.23
(1,4013)	2:181:B:ILE:HD13	2:178:B:GLN:HG3	1	0.23
(1,3963)	1:32:A:ASP:HB3	1:33:A:MET:HG3	15	0.23
(1,3963)	1:32:A:ASP:HB3	1:33:A:MET:HG3	17	0.23
(1,3955)	1:32:A:ASP:HB2	1:31:A:LYS:HB3	6	0.23
(1,3929)	2:228:B:ALA:HA	2:155:B:LYS:HB3	2	0.23
(1,3789)	1:26:A:ILE:HG23	1:14:A:LYS:HB3	5	0.23
(1,3697)	2:207:B:GLU:HA	2:207:B:GLU:HG3	11	0.23
(1,3697)	2:207:B:GLU:HA	2:207:B:GLU:HG3	16	0.23
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	2	0.23
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	6	0.23
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	8	0.23
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	9	0.23
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	10	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	11	0.23
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	12	0.23
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	13	0.23
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	15	0.23
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	16	0.23
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	17	0.23
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	19	0.23
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	20	0.23
(1,3695)	2:189:B:GLU:HA	2:189:B:GLU:HG3	9	0.23
(1,3695)	2:189:B:GLU:HA	2:189:B:GLU:HG3	10	0.23
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	7	0.23
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	20	0.23
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	11	0.23
(1,3393)	1:14:A:LYS:HA	1:14:A:LYS:HE3	9	0.23
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	6	0.23
(1,3067)	2:146:B:ARG:HB3	2:145:B:ALA:HA	1	0.23
(1,3063)	1:34:A:LYS:HD2	1:34:A:LYS:HA	1	0.23
(1,3063)	1:34:A:LYS:HD2	1:34:A:LYS:HA	18	0.23
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	3	0.23
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	9	0.23
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	12	0.23
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	17	0.23
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	19	0.23
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	2	0.23
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	5	0.23
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	6	0.23
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	12	0.23
(1,2932)	1:39:A:VAL:HG13	1:38:A:GLN:HA	12	0.23
(1,2803)	2:169:B:ASN:HD22	2:166:B:LEU:HA	10	0.23
(1,2667)	2:161:B:ILE:HG12	2:224:B:LYS:HA	13	0.23
(1,2658)	2:155:B:LYS:HG2	2:155:B:LYS:HA	6	0.23
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	4	0.23
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	10	0.23
(1,2582)	2:178:B:GLN:HE22	2:178:B:GLN:HA	5	0.23
(1,2564)	1:33:A:MET:H	1:31:A:LYS:HA	8	0.23
(1,2506)	2:245:B:GLU:H	2:242:B:ARG:HA	20	0.23
(1,2505)	2:181:B:ILE:H	2:178:B:GLN:HA	13	0.23
(1,2421)	2:194:B:TYR:HE2	2:194:B:TYR:HA	19	0.23
(1,2369)	2:149:B:ILE:HD13	1:35:A:VAL:HA	18	0.23
(1,2317)	1:29:A:ARG:HG2	1:10:A:ILE:HD11	20	0.23
(1,2218)	2:240:B:SER:HB3	2:232:B:ILE:HD11	6	0.23
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD13	20	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD11	15	0.23
(1,2179)	1:27:A:ILE:HA	1:27:A:ILE:HD12	4	0.23
(1,2139)	2:159:B:PHE:HD2	2:161:B:ILE:HD11	11	0.23
(1,2058)	1:36:A:GLY:H	1:7:A:ILE:HD13	9	0.23
(1,2023)	1:16:A:VAL:HG22	1:9:A:GLU:H	13	0.23
(1,1965)	2:219:B:ILE:HG21	2:220:B:GLY:H	4	0.23
(1,1948)	2:181:B:ILE:HD12	2:248:B:THR:H	6	0.23
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	16	0.23
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	18	0.23
(1,1836)	1:4:A:LEU:HB2	1:20:A:SER:H	8	0.23
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	2	0.23
(1,1678)	2:193:B:MET:HB2	2:189:B:GLU:H	1	0.23
(1,1626)	2:223:B:ARG:HA	2:226:B:ILE:H	10	0.23
(1,1626)	2:177:B:ARG:HA	2:180:B:CYS:H	19	0.23
(1,1543)	1:17:A:VAL:HG13	1:9:A:GLU:H	7	0.23
(1,1530)	1:35:A:VAL:HG21	1:9:A:GLU:H	12	0.23
(1,1521)	1:7:A:ILE:HG23	1:37:A:GLN:H	5	0.23
(1,1521)	1:6:A:ILE:HG23	1:37:A:GLN:H	18	0.23
(1,1518)	2:170:B:VAL:HG22	2:169:B:ASN:H	14	0.23
(1,1514)	2:181:B:ILE:HD13	2:244:B:LEU:H	19	0.23
(1,1489)	1:29:A:ARG:HG3	1:33:A:MET:H	4	0.23
(1,1463)	2:191:B:GLU:HB2	2:195:B:ASN:H	3	0.23
(1,1452)	2:145:B:ALA:HB2	2:147:B:GLU:H	2	0.23
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	20	0.23
(1,1428)	2:192:B:GLN:HB3	2:195:B:ASN:H	11	0.23
(1,1365)	2:223:B:ARG:HD2	2:224:B:LYS:H	11	0.23
(1,1365)	2:223:B:ARG:HD2	2:224:B:LYS:H	15	0.23
(1,1286)	2:233:B:PHE:HD1	2:244:B:LEU:H	12	0.23
(1,1201)	2:156:B:LEU:HD22	2:228:B:ALA:H	20	0.23
(1,1141)	2:214:B:VAL:HG23	2:209:B:LYS:H	16	0.23
(1,1131)	2:162:B:THR:HG21	2:164:B:LEU:H	15	0.23
(1,1045)	2:171:B:PRO:HB3	2:181:B:ILE:H	12	0.23
(1,1038)	2:182:B:ARG:HG3	2:183:B:LEU:H	14	0.23
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	6	0.23
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	13	0.23
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	18	0.23
(1,638)	1:10:A:ILE:HG21	1:14:A:LYS:H	2	0.23
(1,629)	2:231:B:LEU:HD11	2:230:B:CYS:H	17	0.23
(1,626)	2:214:B:VAL:HG13	2:215:B:HIS:H	12	0.23
(1,523)	2:167:B:VAL:HB	1:26:A:ILE:H	14	0.23
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	6	0.23
(1,433)	2:206:B:ASN:HA	2:208:B:LEU:H	9	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,388)	1:24:A:PHE:HD1	1:25:A:LEU:H	2	0.23
(1,388)	1:24:A:PHE:HD1	1:25:A:LEU:H	18	0.23
(1,278)	2:187:B:LEU:HD13	2:196:B:ALA:H	15	0.23
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	15	0.23
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	1	0.23
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	2	0.23
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	6	0.23
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	7	0.23
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	17	0.23
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	19	0.23
(1,245)	1:11:A:GLN:HG3	1:15:A:ALA:H	9	0.23
(1,168)	2:143:B:ILE:HG12	2:144:B:GLU:H	1	0.23
(1,62)	2:219:B:ILE:HG22	2:205:B:ARG:H	1	0.23
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE2	18	0.22
(1,6184)	2:172:B:LYS:HB2	2:173:B:HIS:HD2	20	0.22
(1,6147)	1:47:A:TYR:H	1:47:A:TYR:HE1	17	0.22
(1,6050)	2:197:B:LEU:HD13	2:194:B:TYR:HD1	20	0.22
(1,6022)	1:39:A:VAL:HB	1:41:A:PHE:HD2	4	0.22
(1,5892)	2:228:B:ALA:HB3	2:227:B:ILE:HG22	2	0.22
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	2	0.22
(1,5877)	2:237:B:LEU:HB2	2:236:B:ASN:HA	20	0.22
(1,5840)	2:147:B:GLU:HG3	2:145:B:ALA:HB1	1	0.22
(1,5840)	2:147:B:GLU:HG3	2:145:B:ALA:HB3	10	0.22
(1,5753)	2:166:B:LEU:HD13	2:228:B:ALA:HA	8	0.22
(1,5753)	2:166:B:LEU:HD13	2:228:B:ALA:HA	19	0.22
(1,5746)	2:189:B:GLU:HB2	2:185:B:LYS:HA	16	0.22
(1,5721)	2:220:B:GLY:H	2:203:B:ILE:HD13	5	0.22
(1,5721)	2:228:B:ALA:H	2:203:B:ILE:HD11	15	0.22
(1,5683)	2:183:B:LEU:HB3	2:203:B:ILE:HG23	15	0.22
(1,5683)	2:183:B:LEU:HB3	2:203:B:ILE:HG21	17	0.22
(1,5661)	2:187:B:LEU:HG	2:203:B:ILE:HG21	19	0.22
(1,5629)	2:150:B:GLU:HG2	2:149:B:ILE:HG23	18	0.22
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE1	7	0.22
(1,5396)	2:227:B:ILE:HG22	2:228:B:ALA:HB3	2	0.22
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB1	13	0.22
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD13	12	0.22
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD12	20	0.22
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB2	2	0.22
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG22	2	0.22
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG21	4	0.22
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG23	9	0.22
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG23	13	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG22	18	0.22
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG21	4	0.22
(1,5225)	2:183:B:LEU:HA	2:212:B:ALA:HB2	15	0.22
(1,5223)	1:17:A:VAL:HA	1:18:A:LEU:HD13	9	0.22
(1,4994)	1:7:A:ILE:HB	1:35:A:VAL:HG21	12	0.22
(1,4993)	1:14:A:LYS:HE2	2:164:B:LEU:HD12	11	0.22
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD23	10	0.22
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD22	3	0.22
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD23	6	0.22
(1,4893)	2:154:B:LYS:HA	2:154:B:LYS:HG3	20	0.22
(1,4892)	2:210:B:LYS:HA	2:210:B:LYS:HG2	1	0.22
(1,4892)	2:210:B:LYS:HA	2:210:B:LYS:HG2	5	0.22
(1,4892)	2:210:B:LYS:HA	2:210:B:LYS:HG2	15	0.22
(1,4877)	2:247:B:TYR:HA	2:250:B:LEU:HD23	11	0.22
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD13	4	0.22
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD11	8	0.22
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD13	18	0.22
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD22	9	0.22
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD21	11	0.22
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD22	13	0.22
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD21	14	0.22
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD23	5	0.22
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD23	7	0.22
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD22	18	0.22
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD23	19	0.22
(1,4629)	2:226:B:ILE:HG13	2:229:B:LEU:HD22	5	0.22
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	7	0.22
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	10	0.22
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	20	0.22
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD13	10	0.22
(1,4577)	1:22:A:GLY:HA2	2:244:B:LEU:HD13	13	0.22
(1,4502)	2:150:B:GLU:HA	2:150:B:GLU:HB2	5	0.22
(1,4502)	2:150:B:GLU:HA	2:150:B:GLU:HB2	20	0.22
(1,4478)	1:34:A:LYS:HA	1:7:A:ILE:HG12	13	0.22
(1,4418)	2:233:B:PHE:HE1	2:185:B:LYS:HD2	20	0.22
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD11	7	0.22
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD21	8	0.22
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD21	20	0.22
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD22	2	0.22
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD23	8	0.22
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD23	11	0.22
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD21	15	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4316)	1:28:A:ARG:H	1:30:A:ARG:HG2	15	0.22
(1,4266)	2:219:B:ILE:HG21	2:223:B:ARG:HB3	7	0.22
(1,4259)	2:143:B:ILE:HG22	1:37:A:GLN:HB3	13	0.22
(1,4235)	2:151:B:GLU:HG3	2:154:B:LYS:HD3	18	0.22
(1,4116)	2:148:B:ASP:H	2:144:B:GLU:HB3	14	0.22
(1,4102)	2:231:B:LEU:H	2:234:B:ARG:HB2	12	0.22
(1,4089)	2:220:B:GLY:H	2:217:B:ARG:HB2	1	0.22
(1,4015)	2:170:B:VAL:HG22	1:23:A:GLU:HG3	11	0.22
(1,4015)	1:25:A:LEU:HD21	1:23:A:GLU:HG3	15	0.22
(1,4005)	2:143:B:ILE:HG22	1:37:A:GLN:HG3	8	0.22
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	3	0.22
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	15	0.22
(1,3781)	1:14:A:LYS:HD3	1:26:A:ILE:HB	16	0.22
(1,3747)	2:154:B:LYS:HD3	2:151:B:GLU:HG3	18	0.22
(1,3745)	2:154:B:LYS:HG3	2:151:B:GLU:HG2	8	0.22
(1,3716)	1:3:A:ARG:HD2	1:21:A:GLU:HG2	2	0.22
(1,3712)	2:233:B:PHE:HB3	2:245:B:GLU:HG2	11	0.22
(1,3696)	2:158:B:GLU:HA	2:158:B:GLU:HG3	3	0.22
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	4	0.22
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	7	0.22
(1,3695)	2:189:B:GLU:HA	2:189:B:GLU:HG3	4	0.22
(1,3669)	2:248:B:THR:HB	2:245:B:GLU:HG2	8	0.22
(1,3609)	1:46:A:ILE:H	1:43:A:ASN:HB3	2	0.22
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	6	0.22
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	1	0.22
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	6	0.22
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	9	0.22
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	16	0.22
(1,3393)	1:14:A:LYS:HA	1:14:A:LYS:HE3	16	0.22
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	4	0.22
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	8	0.22
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	14	0.22
(1,3240)	2:194:B:TYR:HB3	2:190:B:ASP:HB3	16	0.22
(1,3240)	2:194:B:TYR:HB3	2:190:B:ASP:HB3	20	0.22
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	1	0.22
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	4	0.22
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	5	0.22
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	6	0.22
(1,3062)	1:34:A:LYS:HB3	1:34:A:LYS:HA	7	0.22
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	8	0.22
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	10	0.22
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	11	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	13	0.22
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	14	0.22
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	15	0.22
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	16	0.22
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	18	0.22
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	20	0.22
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	1	0.22
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	19	0.22
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	2	0.22
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	3	0.22
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	4	0.22
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	6	0.22
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	8	0.22
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	15	0.22
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	20	0.22
(1,2896)	2:166:B:LEU:HB3	1:24:A:PHE:HA	2	0.22
(1,2669)	2:191:B:GLU:HB2	2:191:B:GLU:HA	11	0.22
(1,2658)	2:155:B:LYS:HG2	2:155:B:LYS:HA	5	0.22
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	19	0.22
(1,2582)	2:178:B:GLN:HE22	2:178:B:GLN:HA	11	0.22
(1,2564)	2:190:B:ASP:H	2:186:B:MET:HA	7	0.22
(1,2505)	2:195:B:ASN:H	2:191:B:GLU:HA	14	0.22
(1,2472)	1:7:A:ILE:HG13	1:7:A:ILE:HA	6	0.22
(1,2470)	2:181:B:ILE:HG21	2:230:B:CYS:HA	17	0.22
(1,2467)	2:185:B:LYS:HD3	2:233:B:PHE:HA	2	0.22
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	5	0.22
(1,2422)	1:24:A:PHE:HD2	2:225:B:TYR:HA	8	0.22
(1,2421)	2:194:B:TYR:HE1	2:194:B:TYR:HA	6	0.22
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD11	7	0.22
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD11	19	0.22
(1,2235)	2:205:B:ARG:HD2	2:203:B:ILE:HD12	18	0.22
(1,2230)	1:22:A:GLY:HA2	2:181:B:ILE:HD13	14	0.22
(1,2188)	1:37:A:GLN:HA	1:7:A:ILE:HD12	11	0.22
(1,2188)	1:37:A:GLN:HA	2:143:B:ILE:HD12	18	0.22
(1,2184)	2:152:B:LEU:HA	2:149:B:ILE:HA	10	0.22
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD13	3	0.22
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD12	7	0.22
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD12	15	0.22
(1,1992)	2:166:B:LEU:HB2	2:170:B:VAL:H	11	0.22
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	7	0.22
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	13	0.22
(1,1810)	2:142:B:ASP:HB3	1:38:A:GLN:HE21	18	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	3	0.22
(1,1790)	1:1:A:MET:HA	1:2:A:ASN:HD22	13	0.22
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	1	0.22
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	18	0.22
(1,1626)	2:223:B:ARG:HA	2:226:B:ILE:H	14	0.22
(1,1543)	1:17:A:VAL:HG12	1:9:A:GLU:H	1	0.22
(1,1543)	1:17:A:VAL:HG13	1:9:A:GLU:H	6	0.22
(1,1530)	1:35:A:VAL:HG21	1:9:A:GLU:H	1	0.22
(1,1529)	2:181:B:ILE:HD11	1:21:A:GLU:H	1	0.22
(1,1521)	1:7:A:ILE:HG23	1:37:A:GLN:H	20	0.22
(1,1514)	2:181:B:ILE:HD11	2:244:B:LEU:H	14	0.22
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	16	0.22
(1,1130)	2:239:B:LEU:HD13	2:243:B:TYR:H	5	0.22
(1,1130)	2:239:B:LEU:HD11	2:243:B:TYR:H	13	0.22
(1,1080)	2:144:B:GLU:HB3	2:143:B:ILE:H	3	0.22
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	19	0.22
(1,1037)	2:184:B:ALA:HB2	2:183:B:LEU:H	7	0.22
(1,1016)	2:238:B:ASN:HB2	2:242:B:ARG:H	10	0.22
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	1	0.22
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	2	0.22
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	1	0.22
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	14	0.22
(1,672)	2:156:B:LEU:HD11	2:155:B:LYS:H	9	0.22
(1,626)	2:214:B:VAL:HG13	2:215:B:HIS:H	15	0.22
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	2	0.22
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	12	0.22
(1,621)	1:25:A:LEU:HD12	1:25:A:LEU:H	15	0.22
(1,621)	1:25:A:LEU:HD11	1:25:A:LEU:H	18	0.22
(1,461)	2:191:B:GLU:HA	2:193:B:MET:H	9	0.22
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	5	0.22
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	8	0.22
(1,433)	2:206:B:ASN:HA	2:208:B:LEU:H	3	0.22
(1,388)	1:24:A:PHE:HD2	1:25:A:LEU:H	5	0.22
(1,388)	1:24:A:PHE:HD1	1:25:A:LEU:H	17	0.22
(1,278)	2:187:B:LEU:HD12	2:196:B:ALA:H	5	0.22
(1,278)	2:187:B:LEU:HD13	2:196:B:ALA:H	6	0.22
(1,278)	2:187:B:LEU:HD13	2:196:B:ALA:H	8	0.22
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	11	0.22
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	12	0.22
(1,177)	1:7:A:ILE:HD13	1:30:A:ARG:H	1	0.22
(1,168)	2:143:B:ILE:HG12	2:144:B:GLU:H	18	0.22
(1,62)	2:219:B:ILE:HG22	2:205:B:ARG:H	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	11	0.22
(1,6236)	1:6:A:ILE:HG22	1:8:A:TYR:HE2	2	0.21
(1,6236)	1:6:A:ILE:HG22	1:8:A:TYR:HE2	4	0.21
(1,6228)	2:237:B:LEU:HB2	1:8:A:TYR:HE1	18	0.21
(1,6227)	1:6:A:ILE:HB	1:8:A:TYR:HE2	11	0.21
(1,6207)	1:5:A:GLY:H	2:243:B:TYR:HE1	2	0.21
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE1	10	0.21
(1,6117)	2:149:B:ILE:HG23	1:8:A:TYR:HD2	10	0.21
(1,6045)	2:166:B:LEU:HB2	2:225:B:TYR:HD1	4	0.21
(1,6042)	2:161:B:ILE:HD12	2:159:B:PHE:HD2	4	0.21
(1,5864)	2:187:B:LEU:HA	2:186:B:MET:HG3	4	0.21
(1,5853)	2:169:B:ASN:HB3	2:166:B:LEU:HD23	11	0.21
(1,5820)	2:183:B:LEU:HD13	2:218:B:THR:HB	6	0.21
(1,5721)	2:220:B:GLY:H	2:203:B:ILE:HD12	6	0.21
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG21	11	0.21
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB2	1	0.21
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG22	16	0.21
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG22	2	0.21
(1,5539)	1:33:A:MET:HA	1:33:A:MET:HE1	15	0.21
(1,5500)	2:225:B:TYR:HD2	2:226:B:ILE:HG23	19	0.21
(1,5361)	2:244:B:LEU:HG	1:18:A:LEU:HD11	13	0.21
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD12	17	0.21
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB1	7	0.21
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG11	8	0.21
(1,5237)	2:243:B:TYR:HA	2:244:B:LEU:HD21	12	0.21
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG21	5	0.21
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG23	12	0.21
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG21	15	0.21
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG21	16	0.21
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG23	17	0.21
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG22	20	0.21
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG23	5	0.21
(1,5208)	1:5:A:GLY:HA2	1:19:A:THR:HG22	5	0.21
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG21	9	0.21
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG22	12	0.21
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG21	6	0.21
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG23	12	0.21
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG23	14	0.21
(1,4892)	2:211:B:LYS:HA	2:210:B:LYS:HG3	2	0.21
(1,4838)	2:178:B:GLN:HE21	2:248:B:THR:HG23	12	0.21
(1,4786)	2:159:B:PHE:H	2:231:B:LEU:HD22	1	0.21
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD21	16	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD21	9	0.21
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD21	10	0.21
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD11	3	0.21
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD11	5	0.21
(1,4734)	2:212:B:ALA:H	2:208:B:LEU:HD11	7	0.21
(1,4713)	2:144:B:GLU:H	2:239:B:LEU:HD23	11	0.21
(1,4684)	2:232:B:ILE:HG23	2:237:B:LEU:HD23	3	0.21
(1,4684)	2:149:B:ILE:HD13	2:237:B:LEU:HD22	17	0.21
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	1	0.21
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	8	0.21
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	12	0.21
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD11	18	0.21
(1,4602)	2:194:B:TYR:HB3	2:197:B:LEU:HD13	16	0.21
(1,4575)	2:230:B:CYS:HB3	2:231:B:LEU:HD22	8	0.21
(1,4502)	2:150:B:GLU:HA	2:150:B:GLU:HB2	6	0.21
(1,4502)	2:150:B:GLU:HA	2:150:B:GLU:HB2	16	0.21
(1,4502)	2:150:B:GLU:HA	2:150:B:GLU:HB2	19	0.21
(1,4478)	1:34:A:LYS:HA	1:7:A:ILE:HG12	14	0.21
(1,4442)	2:243:B:TYR:HD2	2:242:B:ARG:HG3	9	0.21
(1,4418)	2:233:B:PHE:HE2	2:185:B:LYS:HD2	1	0.21
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD11	18	0.21
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD21	9	0.21
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD23	6	0.21
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD23	17	0.21
(1,4259)	2:143:B:ILE:HG21	1:37:A:GLN:HB3	18	0.21
(1,4189)	2:251:B:GLU:HA	2:251:B:GLU:HB3	5	0.21
(1,4173)	1:34:A:LYS:HA	1:34:A:LYS:HD2	3	0.21
(1,4105)	1:37:A:GLN:HE21	1:34:A:LYS:HD2	16	0.21
(1,3963)	1:32:A:ASP:HB3	1:33:A:MET:HG3	12	0.21
(1,3928)	1:49:A:VAL:HA	1:49:A:VAL:HB	11	0.21
(1,3928)	1:49:A:VAL:HA	1:49:A:VAL:HB	13	0.21
(1,3880)	2:163:B:PHE:HD2	1:16:A:VAL:HB	8	0.21
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	15	0.21
(1,3789)	1:26:A:ILE:HG23	1:14:A:LYS:HB3	6	0.21
(1,3710)	2:146:B:ARG:HD2	2:150:B:GLU:HG2	10	0.21
(1,3697)	2:207:B:GLU:HA	2:207:B:GLU:HG3	4	0.21
(1,3697)	2:207:B:GLU:HA	2:207:B:GLU:HG3	13	0.21
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	1	0.21
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	5	0.21
(1,3695)	2:189:B:GLU:HA	2:189:B:GLU:HG3	5	0.21
(1,3695)	2:189:B:GLU:HA	2:189:B:GLU:HG3	7	0.21
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	4	0.21
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG3	5	0.21
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	5	0.21
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	10	0.21
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	15	0.21
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	5	0.21
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	2	0.21
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	7	0.21
(1,3248)	2:192:B:GLN:HB2	2:190:B:ASP:HB2	13	0.21
(1,3246)	1:13:A:MET:HB3	1:29:A:ARG:HD3	5	0.21
(1,3240)	2:194:B:TYR:HB3	2:190:B:ASP:HB3	1	0.21
(1,3180)	2:205:B:ARG:H	2:202:B:ASN:HB3	8	0.21
(1,3067)	2:146:B:ARG:HB3	2:145:B:ALA:HA	11	0.21
(1,3065)	2:146:B:ARG:HB2	2:145:B:ALA:HA	1	0.21
(1,3063)	1:34:A:LYS:HD2	1:34:A:LYS:HA	3	0.21
(1,3062)	1:11:A:GLN:HB2	1:11:A:GLN:HA	2	0.21
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	18	0.21
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	1	0.21
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	5	0.21
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	7	0.21
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	9	0.21
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	10	0.21
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	12	0.21
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	16	0.21
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	17	0.21
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	19	0.21
(1,2908)	2:198:B:MET:HB2	2:195:B:ASN:HA	15	0.21
(1,2728)	2:231:B:LEU:HD21	2:155:B:LYS:HA	5	0.21
(1,2728)	2:231:B:LEU:HD22	2:155:B:LYS:HA	6	0.21
(1,2728)	2:231:B:LEU:HD21	2:155:B:LYS:HA	19	0.21
(1,2713)	2:153:B:LYS:HG2	2:154:B:LYS:HA	1	0.21
(1,2669)	2:191:B:GLU:HB2	2:191:B:GLU:HA	12	0.21
(1,2669)	2:191:B:GLU:HB2	2:191:B:GLU:HA	13	0.21
(1,2669)	2:178:B:GLN:HB2	2:178:B:GLN:HA	14	0.21
(1,2669)	2:191:B:GLU:HB2	2:191:B:GLU:HA	16	0.21
(1,2669)	2:191:B:GLU:HB2	2:191:B:GLU:HA	17	0.21
(1,2582)	2:178:B:GLN:HE22	2:178:B:GLN:HA	20	0.21
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	20	0.21
(1,2447)	1:49:A:VAL:HB	1:49:A:VAL:HA	11	0.21
(1,2447)	1:49:A:VAL:HB	1:49:A:VAL:HA	13	0.21
(1,2422)	2:225:B:TYR:HE2	2:225:B:TYR:HA	16	0.21
(1,2266)	1:33:A:MET:HG3	1:7:A:ILE:HD11	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD12	11	0.21
(1,2184)	2:152:B:LEU:HA	2:149:B:ILE:HA	12	0.21
(1,2184)	2:152:B:LEU:HA	2:149:B:ILE:HA	15	0.21
(1,2181)	2:221:B:ASN:HA	2:218:B:THR:HA	15	0.21
(1,2143)	1:9:A:GLU:H	1:10:A:ILE:HD13	3	0.21
(1,2139)	2:159:B:PHE:HD2	2:161:B:ILE:HD12	4	0.21
(1,2139)	2:219:B:ILE:H	2:219:B:ILE:HD11	9	0.21
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD13	5	0.21
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD13	14	0.21
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD11	4	0.21
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD12	8	0.21
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD13	18	0.21
(1,2024)	2:218:B:THR:HG21	2:180:B:CYS:H	6	0.21
(1,2023)	1:16:A:VAL:HG21	1:9:A:GLU:H	9	0.21
(1,1965)	2:219:B:ILE:HG21	2:220:B:GLY:H	12	0.21
(1,1918)	2:214:B:VAL:HG11	2:214:B:VAL:H	4	0.21
(1,1829)	1:17:A:VAL:HB	1:20:A:SER:H	4	0.21
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	9	0.21
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	10	0.21
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	11	0.21
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	17	0.21
(1,1741)	2:170:B:VAL:HG21	1:23:A:GLU:H	13	0.21
(1,1728)	2:226:B:ILE:HG22	2:229:B:LEU:H	4	0.21
(1,1728)	2:226:B:ILE:HG21	2:229:B:LEU:H	12	0.21
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	15	0.21
(1,1534)	2:156:B:LEU:HD21	2:162:B:THR:H	16	0.21
(1,1529)	2:181:B:ILE:HD13	1:21:A:GLU:H	14	0.21
(1,1521)	1:7:A:ILE:HG22	1:37:A:GLN:H	14	0.21
(1,1520)	1:7:A:ILE:HD13	1:37:A:GLN:H	6	0.21
(1,1517)	2:162:B:THR:HG22	2:165:B:ASP:H	12	0.21
(1,1513)	2:227:B:ILE:HD11	2:224:B:LYS:H	12	0.21
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	19	0.21
(1,1463)	2:191:B:GLU:HB2	2:195:B:ASN:H	19	0.21
(1,1365)	2:223:B:ARG:HD3	2:224:B:LYS:H	7	0.21
(1,1365)	2:223:B:ARG:HD2	2:224:B:LYS:H	17	0.21
(1,1299)	1:41:A:PHE:HZ	1:21:A:GLU:H	11	0.21
(1,1151)	2:161:B:ILE:HD13	2:228:B:ALA:H	16	0.21
(1,1131)	2:162:B:THR:HG21	2:164:B:LEU:H	11	0.21
(1,1130)	2:239:B:LEU:HD13	2:243:B:TYR:H	9	0.21
(1,1078)	2:237:B:LEU:HB3	2:241:B:LYS:H	20	0.21
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	14	0.21
(1,1042)	2:164:B:LEU:HB2	2:163:B:PHE:H	13	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1042)	2:164:B:LEU:HB2	2:163:B:PHE:H	17	0.21
(1,1016)	2:238:B:ASN:HB2	2:242:B:ARG:H	8	0.21
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	8	0.21
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	14	0.21
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	15	0.21
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	17	0.21
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	20	0.21
(1,816)	2:247:B:TYR:HE1	2:247:B:TYR:H	19	0.21
(1,638)	1:10:A:ILE:HG21	1:14:A:LYS:H	18	0.21
(1,629)	2:231:B:LEU:HD12	2:230:B:CYS:H	16	0.21
(1,626)	2:214:B:VAL:HG13	2:215:B:HIS:H	3	0.21
(1,626)	2:214:B:VAL:HG13	2:215:B:HIS:H	10	0.21
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	6	0.21
(1,621)	1:25:A:LEU:HD12	1:25:A:LEU:H	6	0.21
(1,538)	1:11:A:GLN:HG3	1:14:A:LYS:H	16	0.21
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	11	0.21
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	19	0.21
(1,402)	1:19:A:THR:HB	1:6:A:ILE:H	9	0.21
(1,402)	1:19:A:THR:HB	1:6:A:ILE:H	16	0.21
(1,388)	1:24:A:PHE:HD2	1:25:A:LEU:H	3	0.21
(1,388)	1:24:A:PHE:HD2	1:25:A:LEU:H	19	0.21
(1,347)	2:200:B:ASN:HD21	2:197:B:LEU:H	4	0.21
(1,278)	2:187:B:LEU:HD12	2:196:B:ALA:H	18	0.21
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	13	0.21
(1,253)	1:11:A:GLN:HB3	1:15:A:ALA:H	8	0.21
(1,62)	2:219:B:ILE:HG22	2:205:B:ARG:H	12	0.21
(1,62)	2:219:B:ILE:HG23	2:205:B:ARG:H	20	0.21
(1,7)	1:35:A:VAL:HG11	1:8:A:TYR:H	6	0.21
(1,6227)	1:6:A:ILE:HB	1:8:A:TYR:HE1	9	0.2
(1,6207)	1:5:A:GLY:H	2:243:B:TYR:HE1	4	0.2
(1,6199)	2:234:B:ARG:HG2	2:194:B:TYR:HE2	11	0.2
(1,6192)	2:188:B:ALA:HB3	2:194:B:TYR:HE2	11	0.2
(1,6151)	2:247:B:TYR:H	2:246:B:TYR:HE2	5	0.2
(1,6042)	2:161:B:ILE:HD11	2:159:B:PHE:HD1	8	0.2
(1,5981)	2:247:B:TYR:H	2:247:B:TYR:HD2	14	0.2
(1,5892)	2:228:B:ALA:HB2	2:227:B:ILE:HG22	3	0.2
(1,5892)	2:228:B:ALA:HB1	2:227:B:ILE:HG21	16	0.2
(1,5889)	1:25:A:LEU:HD13	1:19:A:THR:HA	11	0.2
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	4	0.2
(1,5877)	2:237:B:LEU:HB2	2:236:B:ASN:HA	10	0.2
(1,5864)	2:183:B:LEU:HA	2:186:B:MET:HG3	19	0.2
(1,5826)	2:238:B:ASN:H	2:232:B:ILE:HG22	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5775)	1:4:A:LEU:HD11	1:3:A:ARG:HD2	1	0.2
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG21	3	0.2
(1,5661)	2:193:B:MET:HE3	2:203:B:ILE:HG22	5	0.2
(1,5661)	2:187:B:LEU:HG	2:203:B:ILE:HG21	10	0.2
(1,5661)	2:227:B:ILE:HG12	2:203:B:ILE:HG23	16	0.2
(1,5629)	2:150:B:GLU:HG2	2:149:B:ILE:HG23	16	0.2
(1,5457)	2:187:B:LEU:H	2:193:B:MET:HE1	11	0.2
(1,5449)	2:207:B:GLU:H	2:203:B:ILE:HG23	12	0.2
(1,5396)	2:227:B:ILE:HG22	2:228:B:ALA:HB2	3	0.2
(1,5396)	2:227:B:ILE:HG21	2:228:B:ALA:HB1	16	0.2
(1,5392)	2:166:B:LEU:HD13	1:16:A:VAL:HG12	18	0.2
(1,5372)	1:26:A:ILE:HD12	2:167:B:VAL:HG12	4	0.2
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD21	2	0.2
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG23	3	0.2
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG22	6	0.2
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG22	10	0.2
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG23	2	0.2
(1,5208)	1:5:A:GLY:HA2	1:19:A:THR:HG23	14	0.2
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG21	2	0.2
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG23	19	0.2
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG21	10	0.2
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD23	2	0.2
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD21	5	0.2
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD23	19	0.2
(1,5084)	1:26:A:ILE:H	2:167:B:VAL:HG21	7	0.2
(1,4994)	1:7:A:ILE:HB	1:35:A:VAL:HG22	5	0.2
(1,4993)	1:14:A:LYS:HE2	2:164:B:LEU:HD13	2	0.2
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD23	2	0.2
(1,4893)	2:210:B:LYS:HA	2:209:B:LYS:HG3	11	0.2
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD23	18	0.2
(1,4786)	2:159:B:PHE:H	2:231:B:LEU:HD21	5	0.2
(1,4779)	1:11:A:GLN:HE21	2:164:B:LEU:HD13	17	0.2
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD13	11	0.2
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD11	9	0.2
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD13	11	0.2
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD12	13	0.2
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD12	19	0.2
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD21	16	0.2
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD23	17	0.2
(1,4713)	2:144:B:GLU:H	2:239:B:LEU:HD21	1	0.2
(1,4713)	2:144:B:GLU:H	2:239:B:LEU:HD21	9	0.2
(1,4713)	2:144:B:GLU:H	2:239:B:LEU:HD21	17	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD11	4	0.2
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD12	15	0.2
(1,4592)	2:142:B:ASP:HB2	2:143:B:ILE:HG13	9	0.2
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	7	0.2
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	13	0.2
(1,4577)	1:22:A:GLY:HA2	2:244:B:LEU:HD13	11	0.2
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD22	8	0.2
(1,4515)	2:223:B:ARG:HA	2:223:B:ARG:HG2	10	0.2
(1,4515)	2:223:B:ARG:HA	2:223:B:ARG:HG2	20	0.2
(1,4502)	2:150:B:GLU:HA	2:150:B:GLU:HB2	1	0.2
(1,4502)	2:150:B:GLU:HA	2:150:B:GLU:HB2	2	0.2
(1,4502)	2:150:B:GLU:HA	2:150:B:GLU:HB2	11	0.2
(1,4502)	2:150:B:GLU:HA	2:150:B:GLU:HB2	12	0.2
(1,4502)	2:150:B:GLU:HA	2:150:B:GLU:HB2	14	0.2
(1,4502)	2:150:B:GLU:HA	2:150:B:GLU:HB2	15	0.2
(1,4502)	2:150:B:GLU:HA	2:150:B:GLU:HB2	18	0.2
(1,4469)	2:144:B:GLU:HA	2:143:B:ILE:HG12	6	0.2
(1,4469)	2:144:B:GLU:HA	2:143:B:ILE:HG12	12	0.2
(1,4469)	2:144:B:GLU:HA	2:143:B:ILE:HG12	15	0.2
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD23	11	0.2
(1,4259)	1:7:A:ILE:HD13	1:37:A:GLN:HB3	4	0.2
(1,4236)	2:234:B:ARG:HD2	2:234:B:ARG:HB2	8	0.2
(1,4173)	1:34:A:LYS:HA	1:34:A:LYS:HD2	11	0.2
(1,4089)	2:220:B:GLY:H	2:217:B:ARG:HB2	5	0.2
(1,4014)	2:170:B:VAL:HG22	1:23:A:GLU:HG2	15	0.2
(1,3955)	1:32:A:ASP:HB2	1:31:A:LYS:HB3	4	0.2
(1,3942)	2:211:B:LYS:HE3	2:192:B:GLN:HG2	6	0.2
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	2	0.2
(1,3919)	2:171:B:PRO:HA	2:172:B:LYS:HB2	1	0.2
(1,3789)	1:26:A:ILE:HG21	1:14:A:LYS:HB3	9	0.2
(1,3775)	1:16:A:VAL:HG23	1:9:A:GLU:HG2	10	0.2
(1,3745)	2:154:B:LYS:HG3	2:151:B:GLU:HG2	4	0.2
(1,3745)	2:154:B:LYS:HG3	2:151:B:GLU:HG2	17	0.2
(1,3730)	2:177:B:ARG:HB3	1:23:A:GLU:HG2	18	0.2
(1,3696)	1:7:A:ILE:HA	1:7:A:ILE:HB	18	0.2
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	3	0.2
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	16	0.2
(1,3529)	1:43:A:ASN:H	1:42:A:GLU:HG2	12	0.2
(1,3283)	1:4:A:LEU:HD11	1:3:A:ARG:HD2	1	0.2
(1,3273)	2:203:B:ILE:HD11	2:223:B:ARG:HD2	19	0.2
(1,3272)	2:203:B:ILE:HD11	2:223:B:ARG:HD3	19	0.2
(1,3193)	2:247:B:TYR:HD1	2:177:B:ARG:HD3	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	14	0.2
(1,3084)	2:149:B:ILE:HG12	2:145:B:ALA:HA	13	0.2
(1,3065)	2:146:B:ARG:HB2	2:145:B:ALA:HA	11	0.2
(1,3063)	1:34:A:LYS:HD2	1:34:A:LYS:HA	11	0.2
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	11	0.2
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	14	0.2
(1,2909)	2:168:B:LEU:HB2	2:168:B:LEU:HA	18	0.2
(1,2889)	2:186:B:MET:HB3	2:183:B:LEU:HA	7	0.2
(1,2728)	2:231:B:LEU:HD21	2:155:B:LYS:HA	13	0.2
(1,2669)	2:191:B:GLU:HB2	2:191:B:GLU:HA	1	0.2
(1,2669)	2:191:B:GLU:HB2	2:191:B:GLU:HA	3	0.2
(1,2669)	2:191:B:GLU:HB2	2:191:B:GLU:HA	7	0.2
(1,2669)	2:191:B:GLU:HB2	2:191:B:GLU:HA	9	0.2
(1,2669)	2:178:B:GLN:HB2	2:178:B:GLN:HA	10	0.2
(1,2669)	2:178:B:GLN:HB2	2:178:B:GLN:HA	15	0.2
(1,2669)	2:178:B:GLN:HB2	2:178:B:GLN:HA	19	0.2
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	5	0.2
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	20	0.2
(1,2582)	2:178:B:GLN:HE22	2:178:B:GLN:HA	4	0.2
(1,2582)	2:178:B:GLN:HE22	2:178:B:GLN:HA	10	0.2
(1,2505)	2:195:B:ASN:H	2:191:B:GLU:HA	11	0.2
(1,2505)	2:195:B:ASN:H	2:191:B:GLU:HA	15	0.2
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	16	0.2
(1,2280)	2:166:B:LEU:HB3	2:167:B:VAL:HA	12	0.2
(1,2278)	2:179:B:LEU:HG	2:180:B:CYS:HA	14	0.2
(1,2184)	2:152:B:LEU:HA	2:149:B:ILE:HA	1	0.2
(1,2184)	2:152:B:LEU:HA	2:149:B:ILE:HA	2	0.2
(1,2139)	2:159:B:PHE:HD1	2:161:B:ILE:HD11	8	0.2
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD13	1	0.2
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD12	7	0.2
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD11	12	0.2
(1,2058)	1:36:A:GLY:H	1:7:A:ILE:HD11	2	0.2
(1,2054)	1:44:A:GLU:H	1:46:A:ILE:HD12	13	0.2
(1,2023)	1:16:A:VAL:HG21	1:9:A:GLU:H	2	0.2
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	17	0.2
(1,1965)	2:219:B:ILE:HG21	2:220:B:GLY:H	13	0.2
(1,1929)	1:40:A:SER:HB3	1:5:A:GLY:H	4	0.2
(1,1907)	2:208:B:LEU:HB3	2:214:B:VAL:H	8	0.2
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	19	0.2
(1,1781)	2:165:B:ASP:HA	2:169:B:ASN:HD22	20	0.2
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	19	0.2
(1,1543)	1:17:A:VAL:HG13	1:9:A:GLU:H	20	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1517)	2:162:B:THR:HG21	2:165:B:ASP:H	10	0.2
(1,1513)	2:227:B:ILE:HD12	2:224:B:LYS:H	13	0.2
(1,1513)	2:227:B:ILE:HD12	2:224:B:LYS:H	14	0.2
(1,1489)	1:29:A:ARG:HG3	1:33:A:MET:H	7	0.2
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	8	0.2
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	1	0.2
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	11	0.2
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	20	0.2
(1,1463)	2:191:B:GLU:HB2	2:195:B:ASN:H	5	0.2
(1,1463)	2:191:B:GLU:HB2	2:195:B:ASN:H	17	0.2
(1,1443)	2:177:B:ARG:HB2	2:176:B:SER:H	15	0.2
(1,1442)	2:170:B:VAL:HB	2:168:B:LEU:H	15	0.2
(1,1365)	2:223:B:ARG:HD2	2:224:B:LYS:H	1	0.2
(1,1295)	2:194:B:TYR:HE2	2:195:B:ASN:H	4	0.2
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	1	0.2
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	9	0.2
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	19	0.2
(1,1152)	2:161:B:ILE:HG23	2:225:B:TYR:H	2	0.2
(1,1132)	2:164:B:LEU:HD22	2:164:B:LEU:H	18	0.2
(1,1080)	2:144:B:GLU:HB3	2:143:B:ILE:H	1	0.2
(1,1080)	2:144:B:GLU:HB3	2:143:B:ILE:H	19	0.2
(1,1078)	2:224:B:LYS:HB3	2:225:B:TYR:H	3	0.2
(1,1049)	2:242:B:ARG:HG3	2:243:B:TYR:H	7	0.2
(1,1049)	2:242:B:ARG:HG3	2:243:B:TYR:H	20	0.2
(1,1038)	2:182:B:ARG:HG3	2:183:B:LEU:H	9	0.2
(1,1016)	2:238:B:ASN:HB2	2:242:B:ARG:H	18	0.2
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	9	0.2
(1,674)	2:232:B:ILE:HG22	2:238:B:ASN:H	1	0.2
(1,638)	1:10:A:ILE:HG21	1:14:A:LYS:H	13	0.2
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	4	0.2
(1,621)	1:25:A:LEU:HD13	1:25:A:LEU:H	1	0.2
(1,621)	1:25:A:LEU:HD12	1:25:A:LEU:H	17	0.2
(1,581)	2:251:B:GLU:HB2	2:251:B:GLU:H	10	0.2
(1,576)	2:188:B:ALA:HB1	2:230:B:CYS:H	7	0.2
(1,514)	2:194:B:TYR:HB3	2:190:B:ASP:H	16	0.2
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	6	0.2
(1,433)	2:206:B:ASN:HA	2:208:B:LEU:H	5	0.2
(1,388)	1:24:A:PHE:HD2	1:25:A:LEU:H	9	0.2
(1,388)	1:24:A:PHE:HD1	1:25:A:LEU:H	11	0.2
(1,347)	2:200:B:ASN:HD21	2:197:B:LEU:H	6	0.2
(1,278)	2:187:B:LEU:HD12	2:196:B:ALA:H	4	0.2
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	3	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	9	0.2
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	12	0.2
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	10	0.2
(1,245)	1:11:A:GLN:HG3	1:15:A:ALA:H	5	0.2
(1,179)	1:15:A:ALA:HB3	1:29:A:ARG:H	14	0.2
(1,177)	1:7:A:ILE:HD11	1:30:A:ARG:H	16	0.2
(1,177)	1:7:A:ILE:HD12	1:30:A:ARG:H	18	0.2
(1,172)	1:35:A:VAL:HG12	2:146:B:ARG:H	15	0.2
(1,168)	2:143:B:ILE:HG12	2:144:B:GLU:H	17	0.2
(1,62)	2:219:B:ILE:HG23	2:205:B:ARG:H	19	0.2
(1,22)	1:26:A:ILE:HG23	1:47:A:TYR:H	19	0.2
(1,6236)	1:6:A:ILE:HG22	1:8:A:TYR:HE1	13	0.19
(1,6207)	1:6:A:ILE:H	2:243:B:TYR:HE1	8	0.19
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE2	5	0.19
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE1	17	0.19
(1,6117)	2:149:B:ILE:HG22	1:8:A:TYR:HD1	2	0.19
(1,6117)	2:149:B:ILE:HG21	1:8:A:TYR:HD2	5	0.19
(1,5981)	2:247:B:TYR:H	2:247:B:TYR:HD1	9	0.19
(1,5962)	2:156:B:LEU:HG	2:161:B:ILE:HD11	4	0.19
(1,5910)	1:10:A:ILE:HB	1:35:A:VAL:HG23	18	0.19
(1,5870)	2:154:B:LYS:HG3	2:158:B:GLU:HG2	16	0.19
(1,5775)	1:4:A:LEU:HD11	1:3:A:ARG:HD2	12	0.19
(1,5769)	2:211:B:LYS:HD2	2:212:B:ALA:HA	1	0.19
(1,5766)	2:148:B:ASP:HB3	2:236:B:ASN:HA	8	0.19
(1,5680)	1:25:A:LEU:HG	1:46:A:ILE:HG21	5	0.19
(1,5661)	2:187:B:LEU:HG	2:203:B:ILE:HG23	6	0.19
(1,5661)	2:187:B:LEU:HG	2:203:B:ILE:HG22	7	0.19
(1,5661)	2:187:B:LEU:HG	2:203:B:ILE:HG22	12	0.19
(1,5608)	1:36:A:GLY:HA2	1:6:A:ILE:HG21	4	0.19
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG21	9	0.19
(1,5542)	1:2:A:ASN:HA	1:1:A:MET:HE3	16	0.19
(1,5526)	1:38:A:GLN:HA	1:39:A:VAL:HG13	15	0.19
(1,5500)	2:225:B:TYR:HD1	2:226:B:ILE:HG21	10	0.19
(1,5428)	2:212:B:ALA:H	2:186:B:MET:HE3	1	0.19
(1,5372)	1:26:A:ILE:HD11	2:167:B:VAL:HG13	11	0.19
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB1	5	0.19
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB2	11	0.19
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD21	11	0.19
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG23	8	0.19
(1,5235)	2:214:B:VAL:HA	2:214:B:VAL:HG23	11	0.19
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG23	2	0.19
(1,5052)	2:167:B:VAL:HG11	2:170:B:VAL:HG11	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4965)	2:159:B:PHE:HB2	2:156:B:LEU:HD11	15	0.19
(1,4822)	2:246:B:TYR:HD1	2:250:B:LEU:HD12	3	0.19
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD21	17	0.19
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD13	14	0.19
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD13	2	0.19
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD23	8	0.19
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD23	4	0.19
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD11	7	0.19
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD13	12	0.19
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD22	9	0.19
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD23	13	0.19
(1,4616)	2:156:B:LEU:HB3	2:157:B:GLN:HB2	14	0.19
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD12	3	0.19
(1,4575)	2:230:B:CYS:HB3	2:231:B:LEU:HD21	16	0.19
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD22	14	0.19
(1,4502)	2:150:B:GLU:HA	2:150:B:GLU:HB2	4	0.19
(1,4502)	2:147:B:GLU:HA	2:150:B:GLU:HB2	8	0.19
(1,4502)	2:150:B:GLU:HA	2:150:B:GLU:HB2	17	0.19
(1,4418)	2:233:B:PHE:HE2	2:185:B:LYS:HD2	16	0.19
(1,4410)	1:9:A:GLU:H	1:7:A:ILE:HG12	1	0.19
(1,4410)	1:9:A:GLU:H	1:7:A:ILE:HG12	19	0.19
(1,4409)	1:9:A:GLU:H	1:7:A:ILE:HG12	1	0.19
(1,4409)	1:9:A:GLU:H	1:7:A:ILE:HG12	19	0.19
(1,4391)	1:37:A:GLN:HE21	1:7:A:ILE:HG13	6	0.19
(1,4391)	1:37:A:GLN:HE21	1:7:A:ILE:HG13	13	0.19
(1,4278)	1:17:A:VAL:HG22	1:23:A:GLU:HB2	6	0.19
(1,4266)	1:14:A:LYS:HG3	1:11:A:GLN:HB3	17	0.19
(1,4236)	2:234:B:ARG:HD3	2:234:B:ARG:HB2	1	0.19
(1,4236)	2:234:B:ARG:HD2	2:234:B:ARG:HB2	16	0.19
(1,4235)	2:151:B:GLU:HG3	2:154:B:LYS:HD2	7	0.19
(1,4102)	2:231:B:LEU:H	2:234:B:ARG:HB2	16	0.19
(1,4020)	1:16:A:VAL:HG22	1:9:A:GLU:HB2	3	0.19
(1,4020)	2:149:B:ILE:HG23	1:9:A:GLU:HB2	14	0.19
(1,4019)	2:152:B:LEU:HD12	2:155:B:LYS:HB2	3	0.19
(1,3963)	1:32:A:ASP:HB3	1:33:A:MET:HG3	10	0.19
(1,3963)	1:32:A:ASP:HB3	1:33:A:MET:HG3	20	0.19
(1,3929)	2:228:B:ALA:HA	2:155:B:LYS:HB3	3	0.19
(1,3929)	2:228:B:ALA:HA	2:155:B:LYS:HB3	4	0.19
(1,3929)	2:228:B:ALA:HA	2:155:B:LYS:HB3	10	0.19
(1,3929)	2:228:B:ALA:HA	2:155:B:LYS:HB3	17	0.19
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	10	0.19
(1,3748)	2:154:B:LYS:HG2	2:151:B:GLU:HG3	18	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3747)	2:154:B:LYS:HD2	2:151:B:GLU:HG3	7	0.19
(1,3745)	2:154:B:LYS:HG3	2:151:B:GLU:HG2	19	0.19
(1,3745)	2:154:B:LYS:HG3	2:151:B:GLU:HG2	20	0.19
(1,3697)	2:207:B:GLU:HA	2:207:B:GLU:HG3	19	0.19
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	7	0.19
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	16	0.19
(1,3669)	2:248:B:THR:HB	2:245:B:GLU:HG2	13	0.19
(1,3669)	2:248:B:THR:HB	2:245:B:GLU:HG2	20	0.19
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	2	0.19
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	11	0.19
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	14	0.19
(1,3393)	1:14:A:LYS:HA	1:14:A:LYS:HE3	6	0.19
(1,3283)	1:4:A:LEU:HD11	1:3:A:ARG:HD2	12	0.19
(1,3272)	2:203:B:ILE:HD11	2:223:B:ARG:HD3	11	0.19
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	18	0.19
(1,3217)	1:10:A:ILE:HA	1:29:A:ARG:HD3	11	0.19
(1,3180)	2:201:B:LYS:H	2:201:B:LYS:HE2	6	0.19
(1,3102)	2:193:B:MET:HG3	2:204:B:PRO:HD2	20	0.19
(1,3084)	2:149:B:ILE:HG12	2:145:B:ALA:HA	10	0.19
(1,3067)	2:146:B:ARG:HB3	2:145:B:ALA:HA	17	0.19
(1,3065)	2:146:B:ARG:HB2	2:145:B:ALA:HA	3	0.19
(1,2896)	2:166:B:LEU:HB3	1:24:A:PHE:HA	6	0.19
(1,2719)	2:237:B:LEU:HD13	2:146:B:ARG:HA	6	0.19
(1,2719)	2:237:B:LEU:HD11	2:146:B:ARG:HA	19	0.19
(1,2669)	2:191:B:GLU:HB2	2:191:B:GLU:HA	8	0.19
(1,2618)	2:185:B:LYS:HA	2:182:B:ARG:HA	2	0.19
(1,2618)	2:185:B:LYS:HA	2:182:B:ARG:HA	17	0.19
(1,2506)	2:245:B:GLU:H	2:242:B:ARG:HA	7	0.19
(1,2329)	2:179:B:LEU:HD13	2:218:B:THR:HA	7	0.19
(1,2317)	1:29:A:ARG:HG2	1:10:A:ILE:HD11	2	0.19
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD13	10	0.19
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD13	13	0.19
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD12	6	0.19
(1,2188)	1:37:A:GLN:HA	1:7:A:ILE:HD13	9	0.19
(1,2116)	2:143:B:ILE:H	2:143:B:ILE:HD13	17	0.19
(1,2116)	2:143:B:ILE:H	2:143:B:ILE:HD13	18	0.19
(1,2066)	1:6:A:ILE:H	1:6:A:ILE:HD11	9	0.19
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD13	12	0.19
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	10	0.19
(1,1961)	2:205:B:ARG:HD3	2:220:B:GLY:H	17	0.19
(1,1918)	2:214:B:VAL:HG11	2:214:B:VAL:H	1	0.19
(1,1918)	2:214:B:VAL:HG13	2:214:B:VAL:H	19	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1750)	2:161:B:ILE:HG13	2:159:B:PHE:H	8	0.19
(1,1742)	1:25:A:LEU:HD11	1:23:A:GLU:H	16	0.19
(1,1678)	2:202:B:ASN:HB2	2:200:B:ASN:HD21	5	0.19
(1,1626)	2:177:B:ARG:HA	2:180:B:CYS:H	8	0.19
(1,1588)	2:243:B:TYR:HD1	1:19:A:THR:H	6	0.19
(1,1588)	2:243:B:TYR:HD2	1:19:A:THR:H	20	0.19
(1,1543)	1:17:A:VAL:HG11	1:9:A:GLU:H	3	0.19
(1,1529)	2:181:B:ILE:HD11	1:21:A:GLU:H	10	0.19
(1,1526)	1:7:A:ILE:HD12	1:33:A:MET:H	4	0.19
(1,1521)	1:7:A:ILE:HG22	1:37:A:GLN:H	11	0.19
(1,1519)	2:168:B:LEU:HD13	2:165:B:ASP:H	4	0.19
(1,1517)	2:162:B:THR:HG23	2:165:B:ASP:H	2	0.19
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	4	0.19
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	5	0.19
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	6	0.19
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	9	0.19
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	15	0.19
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	18	0.19
(1,1452)	2:145:B:ALA:HB1	2:147:B:GLU:H	1	0.19
(1,1365)	2:223:B:ARG:HD2	2:224:B:LYS:H	4	0.19
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	10	0.19
(1,1132)	2:164:B:LEU:HD23	2:164:B:LEU:H	6	0.19
(1,1080)	2:144:B:GLU:HB3	2:143:B:ILE:H	20	0.19
(1,1078)	2:237:B:LEU:HB3	2:241:B:LYS:H	14	0.19
(1,1042)	2:164:B:LEU:HB2	2:163:B:PHE:H	2	0.19
(1,1037)	2:184:B:ALA:HB1	2:183:B:LEU:H	20	0.19
(1,1016)	2:238:B:ASN:HB2	2:242:B:ARG:H	16	0.19
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	10	0.19
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	12	0.19
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	13	0.19
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	19	0.19
(1,859)	2:151:B:GLU:HA	2:154:B:LYS:H	10	0.19
(1,790)	2:169:B:ASN:HD21	2:225:B:TYR:H	9	0.19
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	7	0.19
(1,638)	1:10:A:ILE:HG21	1:14:A:LYS:H	12	0.19
(1,629)	2:231:B:LEU:HD11	2:230:B:CYS:H	2	0.19
(1,629)	2:231:B:LEU:HD11	2:230:B:CYS:H	4	0.19
(1,626)	2:214:B:VAL:HG12	2:215:B:HIS:H	4	0.19
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	18	0.19
(1,621)	1:25:A:LEU:HD13	1:25:A:LEU:H	2	0.19
(1,621)	1:25:A:LEU:HD13	1:25:A:LEU:H	11	0.19
(1,582)	1:10:A:ILE:HG12	1:35:A:VAL:H	18	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,582)	1:10:A:ILE:HG12	1:35:A:VAL:H	19	0.19
(1,456)	2:193:B:MET:HA	2:190:B:ASP:H	1	0.19
(1,433)	2:206:B:ASN:HA	2:208:B:LEU:H	18	0.19
(1,402)	1:19:A:THR:HB	1:6:A:ILE:H	14	0.19
(1,388)	1:24:A:PHE:HD1	1:25:A:LEU:H	12	0.19
(1,385)	1:41:A:PHE:HE1	1:6:A:ILE:H	13	0.19
(1,347)	2:200:B:ASN:HD21	2:197:B:LEU:H	18	0.19
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	18	0.19
(1,251)	2:197:B:LEU:HB2	2:196:B:ALA:H	16	0.19
(1,245)	1:11:A:GLN:HG3	1:15:A:ALA:H	2	0.19
(1,189)	1:6:A:ILE:HD12	1:7:A:ILE:H	6	0.19
(1,189)	1:6:A:ILE:HD11	1:7:A:ILE:H	14	0.19
(1,177)	1:7:A:ILE:HD13	1:30:A:ARG:H	17	0.19
(1,172)	1:35:A:VAL:HG11	2:146:B:ARG:H	5	0.19
(1,62)	2:219:B:ILE:HG23	2:205:B:ARG:H	10	0.19
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	1	0.19
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	17	0.19
(1,7)	1:35:A:VAL:HG12	1:8:A:TYR:H	2	0.19
(1,6228)	2:237:B:LEU:HB2	1:8:A:TYR:HE2	7	0.18
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE2	19	0.18
(1,6163)	1:46:A:ILE:HA	1:47:A:TYR:HE2	3	0.18
(1,6163)	2:244:B:LEU:HA	2:246:B:TYR:HE1	12	0.18
(1,6095)	2:153:B:LYS:HD3	2:163:B:PHE:HE1	1	0.18
(1,6050)	2:231:B:LEU:HD13	2:194:B:TYR:HD2	11	0.18
(1,5981)	2:247:B:TYR:H	2:247:B:TYR:HD2	1	0.18
(1,5910)	2:146:B:ARG:HG3	1:35:A:VAL:HG21	16	0.18
(1,5877)	2:237:B:LEU:HB2	2:236:B:ASN:HA	18	0.18
(1,5864)	2:183:B:LEU:HA	2:186:B:MET:HG3	16	0.18
(1,5853)	2:169:B:ASN:HB3	2:166:B:LEU:HD22	2	0.18
(1,5769)	2:211:B:LYS:HD3	2:212:B:ALA:HA	11	0.18
(1,5769)	2:211:B:LYS:HD3	2:212:B:ALA:HA	14	0.18
(1,5721)	2:220:B:GLY:H	2:203:B:ILE:HD13	14	0.18
(1,5661)	2:208:B:LEU:HG	2:203:B:ILE:HG22	14	0.18
(1,5608)	1:36:A:GLY:HA2	1:6:A:ILE:HG22	12	0.18
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE2	4	0.18
(1,5458)	2:186:B:MET:H	2:186:B:MET:HE2	13	0.18
(1,5361)	2:244:B:LEU:HG	1:18:A:LEU:HD12	3	0.18
(1,5361)	2:244:B:LEU:HG	1:18:A:LEU:HD11	18	0.18
(1,5343)	1:29:A:ARG:HG3	1:15:A:ALA:HB3	15	0.18
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB2	19	0.18
(1,5271)	2:209:B:LYS:HA	2:214:B:VAL:HG11	16	0.18
(1,5237)	2:243:B:TYR:HA	2:244:B:LEU:HD21	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG22	11	0.18
(1,5225)	2:183:B:LEU:HA	2:212:B:ALA:HB1	19	0.18
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG21	9	0.18
(1,5163)	1:23:A:GLU:H	1:19:A:THR:HG21	13	0.18
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG21	3	0.18
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD23	16	0.18
(1,4994)	1:7:A:ILE:HB	1:35:A:VAL:HG21	1	0.18
(1,4961)	1:36:A:GLY:HA2	2:239:B:LEU:HD21	9	0.18
(1,4961)	1:36:A:GLY:HA2	2:239:B:LEU:HD23	11	0.18
(1,4893)	2:210:B:LYS:HA	2:209:B:LYS:HG2	9	0.18
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD11	9	0.18
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD12	1	0.18
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD13	13	0.18
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD23	20	0.18
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD13	18	0.18
(1,4734)	2:212:B:ALA:H	2:208:B:LEU:HD12	19	0.18
(1,4728)	1:40:A:SER:H	1:4:A:LEU:HD22	15	0.18
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD22	3	0.18
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD21	11	0.18
(1,4615)	2:153:B:LYS:HB3	2:151:B:GLU:HB2	10	0.18
(1,4615)	2:153:B:LYS:HB3	2:151:B:GLU:HB2	19	0.18
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD12	1	0.18
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	1	0.18
(1,4577)	1:22:A:GLY:HA2	2:244:B:LEU:HD12	20	0.18
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD23	19	0.18
(1,4545)	2:213:B:LYS:HE2	2:213:B:LYS:HB3	18	0.18
(1,4515)	2:223:B:ARG:HA	2:223:B:ARG:HG2	19	0.18
(1,4497)	1:23:A:GLU:HA	1:25:A:LEU:HD13	13	0.18
(1,4497)	1:23:A:GLU:HA	1:25:A:LEU:HD13	15	0.18
(1,4418)	2:233:B:PHE:HE1	2:185:B:LYS:HD2	17	0.18
(1,4410)	1:9:A:GLU:H	1:7:A:ILE:HG12	17	0.18
(1,4409)	1:9:A:GLU:H	1:7:A:ILE:HG12	17	0.18
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD22	10	0.18
(1,4236)	2:234:B:ARG:HD2	2:234:B:ARG:HB2	5	0.18
(1,4236)	2:234:B:ARG:HD2	2:234:B:ARG:HB2	12	0.18
(1,4236)	2:234:B:ARG:HD2	2:234:B:ARG:HB2	13	0.18
(1,4236)	2:234:B:ARG:HD3	2:234:B:ARG:HB2	15	0.18
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD2	7	0.18
(1,4163)	2:141:B:GLU:HA	2:141:B:GLU:HB3	19	0.18
(1,4116)	2:148:B:ASP:H	2:144:B:GLU:HB3	16	0.18
(1,4020)	2:149:B:ILE:HG23	1:9:A:GLU:HB2	5	0.18
(1,4015)	1:25:A:LEU:HD22	1:23:A:GLU:HG3	12	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4014)	2:170:B:VAL:HG22	1:23:A:GLU:HG2	16	0.18
(1,4007)	1:14:A:LYS:HG2	1:11:A:GLN:HG3	7	0.18
(1,3942)	1:34:A:LYS:HE2	1:37:A:GLN:HG2	4	0.18
(1,3886)	2:225:B:TYR:HE1	2:170:B:VAL:HB	14	0.18
(1,3789)	1:26:A:ILE:HG23	1:14:A:LYS:HB3	8	0.18
(1,3789)	1:26:A:ILE:HG23	1:14:A:LYS:HB3	17	0.18
(1,3765)	1:26:A:ILE:HG13	1:47:A:TYR:HB3	15	0.18
(1,3747)	2:154:B:LYS:HD3	2:151:B:GLU:HG2	11	0.18
(1,3745)	2:154:B:LYS:HG3	2:151:B:GLU:HG2	11	0.18
(1,3739)	2:196:B:ALA:HB2	2:195:B:ASN:HB2	13	0.18
(1,3725)	2:151:B:GLU:HB2	2:236:B:ASN:HB2	9	0.18
(1,3529)	1:43:A:ASN:H	1:42:A:GLU:HG2	8	0.18
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	9	0.18
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	10	0.18
(1,3246)	1:13:A:MET:HB3	1:29:A:ARG:HD3	6	0.18
(1,3226)	2:248:B:THR:HA	2:182:B:ARG:HD2	18	0.18
(1,3193)	2:247:B:TYR:HD2	2:177:B:ARG:HD3	7	0.18
(1,3103)	1:14:A:LYS:HB2	1:15:A:ALA:HA	7	0.18
(1,3103)	1:14:A:LYS:HB2	1:15:A:ALA:HA	14	0.18
(1,3084)	2:149:B:ILE:HG12	2:145:B:ALA:HA	12	0.18
(1,3084)	2:149:B:ILE:HG12	2:145:B:ALA:HA	20	0.18
(1,3065)	2:146:B:ARG:HB2	2:145:B:ALA:HA	9	0.18
(1,3065)	2:146:B:ARG:HB2	2:145:B:ALA:HA	18	0.18
(1,2909)	2:168:B:LEU:HG	2:168:B:LEU:HA	13	0.18
(1,2896)	2:166:B:LEU:HB3	1:24:A:PHE:HA	14	0.18
(1,2669)	2:181:B:ILE:HB	2:178:B:GLN:HA	6	0.18
(1,2667)	2:223:B:ARG:HG3	2:224:B:LYS:HA	6	0.18
(1,2505)	2:195:B:ASN:H	2:191:B:GLU:HA	18	0.18
(1,2505)	2:181:B:ILE:H	2:178:B:GLN:HA	19	0.18
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	8	0.18
(1,2278)	2:179:B:LEU:HG	2:180:B:CYS:HA	6	0.18
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD12	2	0.18
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD12	12	0.18
(1,2258)	2:153:B:LYS:HB2	2:149:B:ILE:HA	12	0.18
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD11	5	0.18
(1,2188)	1:37:A:GLN:HA	1:7:A:ILE:HD11	1	0.18
(1,2184)	2:152:B:LEU:HA	2:149:B:ILE:HA	5	0.18
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD13	16	0.18
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD12	19	0.18
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD13	16	0.18
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD12	19	0.18
(1,2058)	1:36:A:GLY:H	1:7:A:ILE:HD12	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	9	0.18
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	18	0.18
(1,1961)	2:205:B:ARG:HD2	2:220:B:GLY:H	12	0.18
(1,1934)	1:39:A:VAL:HG13	1:5:A:GLY:H	11	0.18
(1,1929)	1:40:A:SER:HB3	1:5:A:GLY:H	18	0.18
(1,1918)	2:214:B:VAL:HG12	2:214:B:VAL:H	5	0.18
(1,1810)	2:142:B:ASP:HB3	1:38:A:GLN:HE21	4	0.18
(1,1810)	2:142:B:ASP:HB3	1:38:A:GLN:HE21	10	0.18
(1,1796)	2:202:B:ASN:HB3	2:200:B:ASN:H	16	0.18
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	15	0.18
(1,1692)	1:17:A:VAL:HB	1:19:A:THR:H	17	0.18
(1,1626)	2:177:B:ARG:HA	2:180:B:CYS:H	17	0.18
(1,1588)	1:41:A:PHE:HE2	1:19:A:THR:H	10	0.18
(1,1534)	2:156:B:LEU:HD23	2:162:B:THR:H	14	0.18
(1,1517)	2:162:B:THR:HG21	2:165:B:ASP:H	3	0.18
(1,1514)	2:181:B:ILE:HD12	2:244:B:LEU:H	17	0.18
(1,1513)	2:227:B:ILE:HD11	2:224:B:LYS:H	10	0.18
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	1	0.18
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	4	0.18
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	6	0.18
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	8	0.18
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	14	0.18
(1,1428)	2:192:B:GLN:HB3	2:195:B:ASN:H	10	0.18
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	11	0.18
(1,1365)	2:223:B:ARG:HD2	2:224:B:LYS:H	20	0.18
(1,1293)	2:163:B:PHE:HD1	1:9:A:GLU:H	7	0.18
(1,1201)	2:156:B:LEU:HD21	2:228:B:ALA:H	15	0.18
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	2	0.18
(1,1152)	2:161:B:ILE:HG23	2:225:B:TYR:H	6	0.18
(1,1131)	2:162:B:THR:HG22	2:164:B:LEU:H	6	0.18
(1,1130)	2:239:B:LEU:HD11	2:243:B:TYR:H	17	0.18
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	5	0.18
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	13	0.18
(1,1049)	2:242:B:ARG:HG3	2:243:B:TYR:H	6	0.18
(1,1049)	2:242:B:ARG:HG3	2:243:B:TYR:H	19	0.18
(1,1045)	2:171:B:PRO:HB3	2:181:B:ILE:H	3	0.18
(1,1042)	2:164:B:LEU:HB2	2:163:B:PHE:H	15	0.18
(1,1037)	2:184:B:ALA:HB1	2:183:B:LEU:H	5	0.18
(1,1016)	2:238:B:ASN:HB2	2:242:B:ARG:H	3	0.18
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	4	0.18
(1,959)	2:225:B:TYR:HB2	2:228:B:ALA:H	11	0.18
(1,955)	2:153:B:LYS:HE3	2:154:B:LYS:H	20	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	19	0.18
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	6	0.18
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	10	0.18
(1,621)	1:25:A:LEU:HD11	1:25:A:LEU:H	7	0.18
(1,621)	1:25:A:LEU:HD13	1:25:A:LEU:H	8	0.18
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	4	0.18
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	9	0.18
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	10	0.18
(1,582)	1:10:A:ILE:HG12	1:35:A:VAL:H	1	0.18
(1,576)	2:210:B:LYS:HG2	2:207:B:GLU:H	18	0.18
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	1	0.18
(1,438)	1:29:A:ARG:HA	1:14:A:LYS:H	1	0.18
(1,402)	1:19:A:THR:HB	1:6:A:ILE:H	5	0.18
(1,278)	2:187:B:LEU:HD13	2:196:B:ALA:H	16	0.18
(1,271)	1:49:A:VAL:HG21	1:48:A:ASN:H	11	0.18
(1,271)	1:49:A:VAL:HG22	1:48:A:ASN:H	11	0.18
(1,271)	1:49:A:VAL:HG23	1:48:A:ASN:H	11	0.18
(1,245)	1:11:A:GLN:HG3	1:15:A:ALA:H	3	0.18
(1,245)	1:11:A:GLN:HG3	1:15:A:ALA:H	7	0.18
(1,127)	1:28:A:ARG:HD3	1:29:A:ARG:H	15	0.18
(1,62)	2:219:B:ILE:HG23	2:205:B:ARG:H	3	0.18
(1,62)	2:219:B:ILE:HG21	2:205:B:ARG:H	16	0.18
(1,22)	1:26:A:ILE:HG23	1:47:A:TYR:H	11	0.18
(1,6271)	2:250:B:LEU:HD21	2:246:B:TYR:HE1	3	0.17
(1,6271)	2:250:B:LEU:HD21	2:246:B:TYR:HE2	3	0.17
(1,6271)	2:250:B:LEU:HD22	2:246:B:TYR:HE1	3	0.17
(1,6271)	2:250:B:LEU:HD22	2:246:B:TYR:HE2	3	0.17
(1,6271)	2:250:B:LEU:HD23	2:246:B:TYR:HE1	3	0.17
(1,6271)	2:250:B:LEU:HD23	2:246:B:TYR:HE2	3	0.17
(1,6244)	2:177:B:ARG:HB3	2:225:B:TYR:HE2	8	0.17
(1,6207)	1:5:A:GLY:H	2:243:B:TYR:HE1	3	0.17
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE1	2	0.17
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE1	3	0.17
(1,6117)	2:149:B:ILE:HG22	1:8:A:TYR:HD1	18	0.17
(1,6095)	2:152:B:LEU:HG	2:163:B:PHE:HE1	8	0.17
(1,6022)	1:39:A:VAL:HB	1:41:A:PHE:HD2	3	0.17
(1,5963)	2:168:B:LEU:HG	1:49:A:VAL:HG21	13	0.17
(1,5963)	2:168:B:LEU:HG	1:49:A:VAL:HG22	13	0.17
(1,5963)	2:168:B:LEU:HG	1:49:A:VAL:HG23	13	0.17
(1,5914)	1:18:A:LEU:HD22	2:240:B:SER:HB2	16	0.17
(1,5904)	2:159:B:PHE:HA	2:227:B:ILE:HG21	20	0.17
(1,5884)	2:166:B:LEU:HB2	1:24:A:PHE:HA	15	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5769)	2:211:B:LYS:HD3	2:212:B:ALA:HA	2	0.17
(1,5753)	2:166:B:LEU:HD11	2:228:B:ALA:HA	3	0.17
(1,5753)	2:166:B:LEU:HD13	2:228:B:ALA:HA	4	0.17
(1,5746)	2:189:B:GLU:HB2	2:185:B:LYS:HA	12	0.17
(1,5683)	2:183:B:LEU:HB3	2:203:B:ILE:HG22	13	0.17
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG21	10	0.17
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG22	10	0.17
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG23	10	0.17
(1,5608)	1:36:A:GLY:HA2	1:6:A:ILE:HG21	17	0.17
(1,5566)	2:182:B:ARG:HA	2:181:B:ILE:HG22	17	0.17
(1,5565)	2:204:B:PRO:HD2	2:196:B:ALA:HB1	11	0.17
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE2	10	0.17
(1,5449)	2:209:B:LYS:H	2:203:B:ILE:HG23	20	0.17
(1,5428)	1:2:A:ASN:H	1:1:A:MET:HE3	8	0.17
(1,5396)	2:227:B:ILE:HG23	2:228:B:ALA:HB1	15	0.17
(1,5394)	1:18:A:LEU:HD12	1:19:A:THR:HG22	12	0.17
(1,5392)	2:166:B:LEU:HD11	1:16:A:VAL:HG12	17	0.17
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB3	4	0.17
(1,5311)	2:234:B:ARG:HD3	2:188:B:ALA:HB2	18	0.17
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB1	3	0.17
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB2	6	0.17
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB1	14	0.17
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG23	6	0.17
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG22	12	0.17
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG23	9	0.17
(1,5115)	2:243:B:TYR:H	2:244:B:LEU:HD22	20	0.17
(1,5111)	2:146:B:ARG:H	1:35:A:VAL:HG12	9	0.17
(1,5111)	2:146:B:ARG:H	1:35:A:VAL:HG12	16	0.17
(1,4914)	1:40:A:SER:HB3	1:4:A:LEU:HD21	7	0.17
(1,4892)	2:211:B:LYS:HA	2:210:B:LYS:HG3	13	0.17
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD23	9	0.17
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD12	7	0.17
(1,4819)	2:242:B:ARG:H	2:239:B:LEU:HD13	15	0.17
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD11	14	0.17
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD12	20	0.17
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD12	20	0.17
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD23	4	0.17
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD21	10	0.17
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD22	12	0.17
(1,4576)	2:163:B:PHE:HB3	2:156:B:LEU:HD22	18	0.17
(1,4502)	2:147:B:GLU:HA	2:150:B:GLU:HB2	7	0.17
(1,4497)	1:23:A:GLU:HA	1:25:A:LEU:HD13	17	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4418)	2:233:B:PHE:HE1	2:185:B:LYS:HD2	5	0.17
(1,4418)	2:233:B:PHE:HE1	2:185:B:LYS:HD2	9	0.17
(1,4418)	2:233:B:PHE:HE2	2:185:B:LYS:HD2	19	0.17
(1,4410)	1:9:A:GLU:H	1:7:A:ILE:HG12	18	0.17
(1,4409)	1:9:A:GLU:H	1:7:A:ILE:HG12	18	0.17
(1,4397)	2:187:B:LEU:H	2:187:B:LEU:HD21	15	0.17
(1,4388)	2:152:B:LEU:H	2:152:B:LEU:HD22	4	0.17
(1,4340)	2:197:B:LEU:H	2:197:B:LEU:HD12	6	0.17
(1,4296)	1:15:A:ALA:H	1:14:A:LYS:HD3	15	0.17
(1,4296)	1:15:A:ALA:H	1:14:A:LYS:HD3	17	0.17
(1,4266)	2:143:B:ILE:HD13	2:141:B:GLU:HB3	11	0.17
(1,4259)	2:143:B:ILE:HG21	1:37:A:GLN:HB3	10	0.17
(1,4259)	1:7:A:ILE:HD13	1:37:A:GLN:HB3	12	0.17
(1,4259)	2:143:B:ILE:HG21	1:37:A:GLN:HB3	15	0.17
(1,4259)	2:143:B:ILE:HG22	1:37:A:GLN:HB3	17	0.17
(1,4236)	2:234:B:ARG:HD2	2:234:B:ARG:HB2	10	0.17
(1,4236)	2:234:B:ARG:HD2	2:234:B:ARG:HB2	17	0.17
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD3	12	0.17
(1,4015)	2:170:B:VAL:HG21	1:23:A:GLU:HG3	5	0.17
(1,3942)	1:34:A:LYS:HE2	1:37:A:GLN:HG2	15	0.17
(1,3919)	1:9:A:GLU:HA	1:16:A:VAL:HB	9	0.17
(1,3912)	1:48:A:ASN:HA	1:49:A:VAL:HB	6	0.17
(1,3697)	2:207:B:GLU:HA	2:207:B:GLU:HG3	18	0.17
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	13	0.17
(1,3555)	1:7:A:ILE:H	2:144:B:GLU:HG3	4	0.17
(1,3529)	1:43:A:ASN:H	1:42:A:GLU:HG2	15	0.17
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	3	0.17
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	12	0.17
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	17	0.17
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	20	0.17
(1,3248)	2:192:B:GLN:HB2	2:190:B:ASP:HB2	3	0.17
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	9	0.17
(1,3084)	2:149:B:ILE:HG12	2:145:B:ALA:HA	8	0.17
(1,3084)	2:149:B:ILE:HG12	2:145:B:ALA:HA	14	0.17
(1,3084)	2:149:B:ILE:HG12	2:145:B:ALA:HA	19	0.17
(1,3067)	2:146:B:ARG:HB3	2:145:B:ALA:HA	3	0.17
(1,3067)	2:146:B:ARG:HB3	2:145:B:ALA:HA	20	0.17
(1,2669)	2:181:B:ILE:HB	2:178:B:GLN:HA	18	0.17
(1,2669)	2:178:B:GLN:HB2	2:178:B:GLN:HA	20	0.17
(1,2667)	2:161:B:ILE:HG12	2:224:B:LYS:HA	19	0.17
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	7	0.17
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2506)	2:245:B:GLU:H	2:242:B:ARG:HA	12	0.17
(1,2421)	2:194:B:TYR:HE1	2:194:B:TYR:HA	20	0.17
(1,2413)	2:233:B:PHE:HE2	2:230:B:CYS:HA	19	0.17
(1,2369)	2:149:B:ILE:HD11	1:35:A:VAL:HA	9	0.17
(1,2278)	2:179:B:LEU:HG	2:180:B:CYS:HA	1	0.17
(1,2278)	2:179:B:LEU:HG	2:180:B:CYS:HA	13	0.17
(1,2278)	2:179:B:LEU:HG	2:180:B:CYS:HA	20	0.17
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD12	16	0.17
(1,2222)	2:240:B:SER:HB2	2:149:B:ILE:HD12	3	0.17
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD13	3	0.17
(1,2146)	2:163:B:PHE:HE1	2:232:B:ILE:HD12	10	0.17
(1,2143)	1:9:A:GLU:H	1:10:A:ILE:HD12	6	0.17
(1,2116)	2:143:B:ILE:H	2:143:B:ILE:HD12	6	0.17
(1,2116)	2:143:B:ILE:H	2:143:B:ILE:HD12	11	0.17
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD13	3	0.17
(1,2058)	1:36:A:GLY:H	1:7:A:ILE:HD13	6	0.17
(1,2024)	2:218:B:THR:HG22	2:180:B:CYS:H	7	0.17
(1,2023)	1:16:A:VAL:HG23	1:9:A:GLU:H	6	0.17
(1,2023)	1:16:A:VAL:HG22	1:9:A:GLU:H	12	0.17
(1,1948)	2:181:B:ILE:HD12	2:248:B:THR:H	12	0.17
(1,1918)	2:214:B:VAL:HG11	2:214:B:VAL:H	8	0.17
(1,1918)	2:214:B:VAL:HG12	2:214:B:VAL:H	9	0.17
(1,1918)	2:214:B:VAL:HG12	2:214:B:VAL:H	10	0.17
(1,1918)	2:214:B:VAL:HG13	2:214:B:VAL:H	20	0.17
(1,1829)	1:4:A:LEU:HG	1:20:A:SER:H	12	0.17
(1,1750)	2:161:B:ILE:HG13	2:159:B:PHE:H	6	0.17
(1,1750)	2:161:B:ILE:HG13	2:159:B:PHE:H	20	0.17
(1,1741)	2:170:B:VAL:HG22	1:23:A:GLU:H	1	0.17
(1,1707)	2:188:B:ALA:HB1	2:189:B:GLU:H	4	0.17
(1,1674)	2:201:B:LYS:HE3	2:159:B:PHE:H	19	0.17
(1,1626)	2:223:B:ARG:HA	2:226:B:ILE:H	12	0.17
(1,1591)	2:225:B:TYR:HE1	1:23:A:GLU:H	18	0.17
(1,1589)	2:225:B:TYR:HE1	2:180:B:CYS:H	16	0.17
(1,1530)	1:35:A:VAL:HG23	1:9:A:GLU:H	3	0.17
(1,1517)	2:162:B:THR:HG23	2:165:B:ASP:H	9	0.17
(1,1513)	2:227:B:ILE:HD12	2:224:B:LYS:H	4	0.17
(1,1513)	2:227:B:ILE:HD11	2:224:B:LYS:H	17	0.17
(1,1489)	1:31:A:LYS:HG2	1:33:A:MET:H	11	0.17
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	17	0.17
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	2	0.17
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	10	0.17
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	12	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	13	0.17
(1,1465)	1:44:A:GLU:HB2	1:45:A:ASP:H	4	0.17
(1,1465)	1:44:A:GLU:HB3	1:45:A:ASP:H	4	0.17
(1,1463)	2:191:B:GLU:HB2	2:195:B:ASN:H	8	0.17
(1,1452)	2:145:B:ALA:HB2	2:147:B:GLU:H	5	0.17
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	1	0.17
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	3	0.17
(1,1152)	2:161:B:ILE:HG22	2:225:B:TYR:H	8	0.17
(1,1141)	2:214:B:VAL:HG23	2:209:B:LYS:H	15	0.17
(1,1130)	2:239:B:LEU:HD13	2:243:B:TYR:H	4	0.17
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	1	0.17
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	3	0.17
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	14	0.17
(1,1078)	2:237:B:LEU:HB3	2:241:B:LYS:H	5	0.17
(1,1042)	2:164:B:LEU:HB2	2:163:B:PHE:H	4	0.17
(1,1037)	2:184:B:ALA:HB3	2:183:B:LEU:H	9	0.17
(1,971)	2:210:B:LYS:HE2	2:211:B:LYS:H	2	0.17
(1,942)	2:246:B:TYR:HB2	2:246:B:TYR:H	1	0.17
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	3	0.17
(1,629)	2:231:B:LEU:HD12	2:230:B:CYS:H	11	0.17
(1,626)	2:214:B:VAL:HG12	2:215:B:HIS:H	11	0.17
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	11	0.17
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	14	0.17
(1,501)	2:206:B:ASN:HB2	2:207:B:GLU:H	10	0.17
(1,501)	2:206:B:ASN:HB2	2:207:B:GLU:H	17	0.17
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	1	0.17
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	3	0.17
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	4	0.17
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	9	0.17
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	10	0.17
(1,461)	2:191:B:GLU:HA	2:193:B:MET:H	2	0.17
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	17	0.17
(1,433)	2:206:B:ASN:HA	2:208:B:LEU:H	12	0.17
(1,347)	2:200:B:ASN:HD21	2:197:B:LEU:H	3	0.17
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	7	0.17
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	19	0.17
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	6	0.17
(1,177)	1:7:A:ILE:HD13	1:30:A:ARG:H	2	0.17
(1,177)	1:7:A:ILE:HD12	1:30:A:ARG:H	6	0.17
(1,177)	1:10:A:ILE:HG23	1:30:A:ARG:H	10	0.17
(1,172)	1:35:A:VAL:HG12	2:146:B:ARG:H	9	0.17
(1,172)	1:35:A:VAL:HG12	2:146:B:ARG:H	16	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,168)	2:143:B:ILE:HG12	2:144:B:GLU:H	4	0.17
(1,62)	2:219:B:ILE:HG21	2:205:B:ARG:H	14	0.17
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	3	0.17
(1,22)	1:26:A:ILE:HG23	1:47:A:TYR:H	12	0.17
(1,6251)	1:14:A:LYS:HD3	1:47:A:TYR:HD2	4	0.16
(1,6228)	2:237:B:LEU:HB2	1:8:A:TYR:HE2	3	0.16
(1,6192)	2:188:B:ALA:HB1	2:194:B:TYR:HE1	6	0.16
(1,6192)	2:188:B:ALA:HB3	2:194:B:TYR:HE1	10	0.16
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE2	7	0.16
(1,5981)	2:247:B:TYR:H	2:247:B:TYR:HD2	2	0.16
(1,5981)	2:247:B:TYR:H	2:247:B:TYR:HD1	7	0.16
(1,5884)	2:166:B:LEU:HB2	1:24:A:PHE:HA	17	0.16
(1,5864)	2:183:B:LEU:HA	2:186:B:MET:HG3	7	0.16
(1,5864)	2:183:B:LEU:HA	2:186:B:MET:HG3	13	0.16
(1,5840)	2:147:B:GLU:HG3	2:145:B:ALA:HB3	3	0.16
(1,5769)	2:211:B:LYS:HD3	2:212:B:ALA:HA	9	0.16
(1,5759)	2:189:B:GLU:HG2	2:188:B:ALA:HA	14	0.16
(1,5759)	2:189:B:GLU:HG2	2:188:B:ALA:HA	19	0.16
(1,5526)	1:38:A:GLN:HA	1:39:A:VAL:HG11	1	0.16
(1,5526)	1:38:A:GLN:HA	1:39:A:VAL:HG13	10	0.16
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB3	20	0.16
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG21	7	0.16
(1,5225)	2:183:B:LEU:HA	2:212:B:ALA:HB3	10	0.16
(1,5225)	2:183:B:LEU:HA	2:212:B:ALA:HB3	18	0.16
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG22	16	0.16
(1,5143)	2:149:B:ILE:H	1:35:A:VAL:HG11	12	0.16
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG23	4	0.16
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG21	8	0.16
(1,5138)	2:161:B:ILE:H	2:162:B:THR:HG22	11	0.16
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG22	13	0.16
(1,4994)	1:7:A:ILE:HB	1:35:A:VAL:HG23	11	0.16
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD11	1	0.16
(1,4962)	1:22:A:GLY:HA3	2:229:B:LEU:HD11	9	0.16
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD23	14	0.16
(1,4892)	2:210:B:LYS:HA	2:210:B:LYS:HG2	11	0.16
(1,4838)	2:178:B:GLN:HE21	2:248:B:THR:HG21	3	0.16
(1,4822)	2:242:B:ARG:HE	2:239:B:LEU:HD11	17	0.16
(1,4820)	2:170:B:VAL:H	1:25:A:LEU:HD23	11	0.16
(1,4786)	2:159:B:PHE:H	2:231:B:LEU:HD21	9	0.16
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD21	3	0.16
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD23	7	0.16
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD21	14	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4736)	2:208:B:LEU:H	2:208:B:LEU:HD13	17	0.16
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD23	1	0.16
(1,4684)	2:232:B:ILE:HG21	2:237:B:LEU:HD23	16	0.16
(1,4643)	2:167:B:VAL:HG11	2:168:B:LEU:HG	9	0.16
(1,4615)	2:153:B:LYS:HB3	2:151:B:GLU:HB2	3	0.16
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD21	10	0.16
(1,4546)	1:43:A:ASN:HB3	1:44:A:GLU:HB3	3	0.16
(1,4497)	1:23:A:GLU:HA	1:25:A:LEU:HD12	18	0.16
(1,4478)	1:34:A:LYS:HA	1:7:A:ILE:HG12	7	0.16
(1,4469)	2:144:B:GLU:HA	2:239:B:LEU:HG	13	0.16
(1,4469)	2:144:B:GLU:HA	2:143:B:ILE:HG12	19	0.16
(1,4418)	2:233:B:PHE:HE2	2:185:B:LYS:HD2	14	0.16
(1,4413)	2:242:B:ARG:H	2:241:B:LYS:HG2	18	0.16
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD23	19	0.16
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD22	18	0.16
(1,4391)	1:37:A:GLN:HE21	1:7:A:ILE:HG13	20	0.16
(1,4345)	2:184:B:ALA:H	2:183:B:LEU:HD13	20	0.16
(1,4340)	2:197:B:LEU:H	2:197:B:LEU:HD13	10	0.16
(1,4340)	2:197:B:LEU:H	2:197:B:LEU:HD11	19	0.16
(1,4261)	1:34:A:LYS:HG2	1:37:A:GLN:HB2	12	0.16
(1,4259)	1:7:A:ILE:HD11	1:37:A:GLN:HB3	20	0.16
(1,4236)	2:234:B:ARG:HD2	2:234:B:ARG:HB2	7	0.16
(1,4236)	2:234:B:ARG:HD3	2:234:B:ARG:HB2	14	0.16
(1,4234)	2:158:B:GLU:HG2	2:155:B:LYS:HD2	7	0.16
(1,4189)	2:251:B:GLU:HA	2:251:B:GLU:HB3	10	0.16
(1,4164)	2:243:B:TYR:HA	2:242:B:ARG:HB3	1	0.16
(1,4159)	1:50:A:ARG:HA	1:50:A:ARG:HB3	12	0.16
(1,4014)	2:170:B:VAL:HG23	1:23:A:GLU:HG2	12	0.16
(1,3942)	1:34:A:LYS:HE2	1:37:A:GLN:HG2	8	0.16
(1,3929)	2:228:B:ALA:HA	2:155:B:LYS:HB3	5	0.16
(1,3929)	2:228:B:ALA:HA	2:155:B:LYS:HB3	14	0.16
(1,3789)	1:26:A:ILE:HG21	1:14:A:LYS:HB3	2	0.16
(1,3765)	1:26:A:ILE:HG13	1:47:A:TYR:HB3	18	0.16
(1,3730)	2:177:B:ARG:HB3	1:23:A:GLU:HG2	19	0.16
(1,3669)	2:248:B:THR:HB	2:245:B:GLU:HG2	15	0.16
(1,3529)	1:43:A:ASN:H	1:42:A:GLU:HG2	2	0.16
(1,3443)	1:9:A:GLU:HG2	1:10:A:ILE:HB	17	0.16
(1,3439)	2:142:B:ASP:HB3	2:143:B:ILE:HB	2	0.16
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	15	0.16
(1,3228)	2:187:B:LEU:HA	2:190:B:ASP:HB3	1	0.16
(1,3215)	1:29:A:ARG:HA	1:30:A:ARG:HD3	4	0.16
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3067)	2:146:B:ARG:HB3	2:145:B:ALA:HA	19	0.16
(1,2896)	2:166:B:LEU:HB3	1:24:A:PHE:HA	9	0.16
(1,2881)	2:141:B:GLU:HB2	2:141:B:GLU:HA	2	0.16
(1,2881)	2:141:B:GLU:HB2	2:141:B:GLU:HA	5	0.16
(1,2881)	2:141:B:GLU:HB2	2:141:B:GLU:HA	6	0.16
(1,2881)	2:141:B:GLU:HB2	2:141:B:GLU:HA	10	0.16
(1,2881)	2:141:B:GLU:HB2	2:141:B:GLU:HA	11	0.16
(1,2881)	2:141:B:GLU:HB2	2:141:B:GLU:HA	16	0.16
(1,2728)	2:231:B:LEU:HD21	2:155:B:LYS:HA	9	0.16
(1,2719)	2:237:B:LEU:HD13	2:146:B:ARG:HA	3	0.16
(1,2717)	2:152:B:LEU:HD12	2:153:B:LYS:HA	20	0.16
(1,2713)	2:153:B:LYS:HG3	2:154:B:LYS:HA	9	0.16
(1,2667)	2:223:B:ARG:HG3	2:224:B:LYS:HA	11	0.16
(1,2626)	2:225:B:TYR:HB3	2:170:B:VAL:HA	12	0.16
(1,2618)	2:185:B:LYS:HA	2:182:B:ARG:HA	8	0.16
(1,2614)	2:217:B:ARG:HD2	2:217:B:ARG:HA	6	0.16
(1,2600)	2:153:B:LYS:HA	2:154:B:LYS:HA	13	0.16
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	3	0.16
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	13	0.16
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	16	0.16
(1,2582)	2:178:B:GLN:HE22	2:178:B:GLN:HA	3	0.16
(1,2582)	2:178:B:GLN:HE22	2:178:B:GLN:HA	17	0.16
(1,2582)	2:178:B:GLN:HE22	2:178:B:GLN:HA	18	0.16
(1,2564)	2:190:B:ASP:H	2:186:B:MET:HA	13	0.16
(1,2506)	2:245:B:GLU:H	2:242:B:ARG:HA	2	0.16
(1,2506)	2:245:B:GLU:H	2:242:B:ARG:HA	19	0.16
(1,2505)	2:181:B:ILE:H	2:178:B:GLN:HA	6	0.16
(1,2413)	1:9:A:GLU:H	1:7:A:ILE:HA	8	0.16
(1,2413)	2:233:B:PHE:HE1	2:230:B:CYS:HA	10	0.16
(1,2413)	2:233:B:PHE:HE2	2:230:B:CYS:HA	12	0.16
(1,2329)	2:179:B:LEU:HD12	2:218:B:THR:HA	2	0.16
(1,2278)	2:179:B:LEU:HG	2:180:B:CYS:HA	19	0.16
(1,2258)	2:153:B:LYS:HB2	2:149:B:ILE:HA	14	0.16
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD12	9	0.16
(1,2184)	2:152:B:LEU:HA	2:149:B:ILE:HA	18	0.16
(1,2143)	1:9:A:GLU:H	1:10:A:ILE:HD13	11	0.16
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD12	2	0.16
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD11	11	0.16
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD12	18	0.16
(1,2058)	1:36:A:GLY:H	1:7:A:ILE:HD11	10	0.16
(1,2057)	2:144:B:GLU:H	2:143:B:ILE:HD12	10	0.16
(1,2051)	2:217:B:ARG:HB3	2:221:B:ASN:H	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2046)	2:196:B:ALA:HA	2:199:B:LYS:H	19	0.16
(1,2024)	2:218:B:THR:HG23	2:180:B:CYS:H	14	0.16
(1,2023)	1:16:A:VAL:HG22	1:9:A:GLU:H	16	0.16
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	3	0.16
(1,1934)	1:39:A:VAL:HG11	1:5:A:GLY:H	3	0.16
(1,1918)	2:214:B:VAL:HG12	2:214:B:VAL:H	2	0.16
(1,1918)	2:214:B:VAL:HG13	2:214:B:VAL:H	6	0.16
(1,1918)	2:214:B:VAL:HG12	2:214:B:VAL:H	15	0.16
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	20	0.16
(1,1882)	2:213:B:LYS:HE3	2:214:B:VAL:H	2	0.16
(1,1882)	2:209:B:LYS:HE3	2:214:B:VAL:H	5	0.16
(1,1810)	2:142:B:ASP:HB3	1:38:A:GLN:HE21	19	0.16
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	2	0.16
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	3	0.16
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	13	0.16
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	14	0.16
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	16	0.16
(1,1728)	2:226:B:ILE:HG23	2:229:B:LEU:H	13	0.16
(1,1728)	2:226:B:ILE:HG22	2:229:B:LEU:H	14	0.16
(1,1710)	2:223:B:ARG:HG2	2:222:B:ASN:H	11	0.16
(1,1692)	1:17:A:VAL:HB	1:19:A:THR:H	20	0.16
(1,1689)	2:248:B:THR:HG22	2:178:B:GLN:H	19	0.16
(1,1688)	2:171:B:PRO:HB3	2:178:B:GLN:H	9	0.16
(1,1588)	2:243:B:TYR:HD1	1:19:A:THR:H	4	0.16
(1,1543)	1:17:A:VAL:HG12	1:9:A:GLU:H	19	0.16
(1,1534)	2:156:B:LEU:HD21	2:162:B:THR:H	4	0.16
(1,1517)	2:162:B:THR:HG23	2:165:B:ASP:H	4	0.16
(1,1517)	2:162:B:THR:HG21	2:165:B:ASP:H	8	0.16
(1,1517)	2:162:B:THR:HG22	2:165:B:ASP:H	13	0.16
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	3	0.16
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	5	0.16
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	13	0.16
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	15	0.16
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	3	0.16
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	7	0.16
(1,1477)	2:186:B:MET:HB2	2:186:B:MET:H	17	0.16
(1,1452)	2:145:B:ALA:HB1	2:147:B:GLU:H	6	0.16
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	5	0.16
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	8	0.16
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	10	0.16
(1,1365)	2:223:B:ARG:HD2	2:224:B:LYS:H	9	0.16
(1,1132)	2:164:B:LEU:HD22	2:164:B:LEU:H	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1131)	2:162:B:THR:HG23	2:164:B:LEU:H	18	0.16
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	9	0.16
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	11	0.16
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	13	0.16
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	18	0.16
(1,1080)	2:144:B:GLU:HB3	2:143:B:ILE:H	17	0.16
(1,1078)	2:237:B:LEU:HB3	2:241:B:LYS:H	6	0.16
(1,1078)	2:237:B:LEU:HB3	2:241:B:LYS:H	11	0.16
(1,1042)	2:164:B:LEU:HB2	2:163:B:PHE:H	11	0.16
(1,1038)	1:6:A:ILE:HG12	1:38:A:GLN:H	3	0.16
(1,957)	2:199:B:LYS:HE2	2:199:B:LYS:H	2	0.16
(1,942)	2:246:B:TYR:HB2	2:246:B:TYR:H	5	0.16
(1,889)	2:178:B:GLN:HA	2:181:B:ILE:H	6	0.16
(1,811)	2:225:B:TYR:HE1	2:181:B:ILE:H	9	0.16
(1,777)	2:225:B:TYR:HD1	2:181:B:ILE:H	11	0.16
(1,677)	2:237:B:LEU:HD12	2:152:B:LEU:H	4	0.16
(1,672)	2:156:B:LEU:HD11	2:155:B:LYS:H	7	0.16
(1,672)	2:156:B:LEU:HD13	2:155:B:LYS:H	15	0.16
(1,621)	1:25:A:LEU:HD12	1:25:A:LEU:H	3	0.16
(1,621)	1:25:A:LEU:HD12	1:25:A:LEU:H	9	0.16
(1,621)	1:25:A:LEU:HD12	1:25:A:LEU:H	19	0.16
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	2	0.16
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	15	0.16
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	16	0.16
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	18	0.16
(1,576)	2:210:B:LYS:HG2	2:207:B:GLU:H	16	0.16
(1,538)	1:11:A:GLN:HG3	1:14:A:LYS:H	1	0.16
(1,522)	1:42:A:GLU:HG3	1:43:A:ASN:H	15	0.16
(1,522)	1:42:A:GLU:HG3	1:43:A:ASN:H	18	0.16
(1,507)	2:241:B:LYS:HE2	2:238:B:ASN:H	9	0.16
(1,507)	2:241:B:LYS:HE3	2:238:B:ASN:H	9	0.16
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	13	0.16
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	10	0.16
(1,436)	2:251:B:GLU:HA	2:251:B:GLU:H	18	0.16
(1,433)	2:206:B:ASN:HA	2:208:B:LEU:H	13	0.16
(1,402)	1:19:A:THR:HB	1:6:A:ILE:H	3	0.16
(1,388)	1:24:A:PHE:HD1	1:25:A:LEU:H	7	0.16
(1,386)	2:243:B:TYR:HE1	1:6:A:ILE:H	7	0.16
(1,384)	2:234:B:ARG:HE	2:194:B:TYR:H	4	0.16
(1,347)	2:200:B:ASN:HD21	2:197:B:LEU:H	11	0.16
(1,347)	2:200:B:ASN:HD21	2:197:B:LEU:H	20	0.16
(1,273)	1:49:A:VAL:HG21	1:50:A:ARG:H	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	2	0.16
(1,177)	1:39:A:VAL:HG12	1:30:A:ARG:H	11	0.16
(1,177)	1:7:A:ILE:HD12	1:30:A:ARG:H	12	0.16
(1,177)	1:7:A:ILE:HD13	1:30:A:ARG:H	20	0.16
(1,172)	1:35:A:VAL:HG12	2:146:B:ARG:H	20	0.16
(1,6236)	1:6:A:ILE:HG23	1:8:A:TYR:HE2	7	0.15
(1,6207)	1:5:A:GLY:H	2:243:B:TYR:HE1	9	0.15
(1,6188)	1:14:A:LYS:HB3	1:47:A:TYR:HE1	9	0.15
(1,6163)	1:46:A:ILE:HA	1:47:A:TYR:HE2	7	0.15
(1,6163)	1:46:A:ILE:HA	1:47:A:TYR:HE1	19	0.15
(1,5981)	2:247:B:TYR:H	2:247:B:TYR:HD1	4	0.15
(1,5957)	2:205:B:ARG:H	2:205:B:ARG:HD3	4	0.15
(1,5940)	1:39:A:VAL:HG12	1:17:A:VAL:HG21	9	0.15
(1,5940)	1:39:A:VAL:HG13	1:17:A:VAL:HG21	18	0.15
(1,5914)	1:18:A:LEU:HD22	2:240:B:SER:HB3	10	0.15
(1,5902)	1:21:A:GLU:HB2	1:19:A:THR:HG21	15	0.15
(1,5892)	2:228:B:ALA:HB2	2:227:B:ILE:HG23	12	0.15
(1,5884)	2:166:B:LEU:HB2	1:24:A:PHE:HA	8	0.15
(1,5880)	1:3:A:ARG:HB3	1:4:A:LEU:HA	8	0.15
(1,5864)	2:187:B:LEU:HA	2:186:B:MET:HG3	1	0.15
(1,5864)	2:183:B:LEU:HA	2:186:B:MET:HG3	8	0.15
(1,5853)	2:169:B:ASN:HB3	2:166:B:LEU:HD23	17	0.15
(1,5853)	2:169:B:ASN:HB3	2:166:B:LEU:HD23	20	0.15
(1,5852)	2:225:B:TYR:HE2	2:170:B:VAL:HG11	12	0.15
(1,5753)	2:166:B:LEU:HD12	2:228:B:ALA:HA	6	0.15
(1,5753)	2:166:B:LEU:HD13	2:228:B:ALA:HA	9	0.15
(1,5713)	2:201:B:LYS:HA	2:227:B:ILE:HG21	12	0.15
(1,5542)	1:2:A:ASN:HA	1:1:A:MET:HE3	6	0.15
(1,5542)	1:2:A:ASN:HA	1:1:A:MET:HE1	15	0.15
(1,5428)	2:212:B:ALA:H	2:193:B:MET:HE1	18	0.15
(1,5426)	2:193:B:MET:H	2:193:B:MET:HE1	9	0.15
(1,5396)	2:227:B:ILE:HG23	2:228:B:ALA:HB2	12	0.15
(1,5372)	1:26:A:ILE:HD11	2:167:B:VAL:HG13	17	0.15
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB3	16	0.15
(1,5181)	2:163:B:PHE:HD2	1:16:A:VAL:HG11	9	0.15
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG21	14	0.15
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG22	20	0.15
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG22	7	0.15
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG22	20	0.15
(1,4991)	1:38:A:GLN:HG2	2:239:B:LEU:HD11	5	0.15
(1,4971)	2:158:B:GLU:HG2	2:154:B:LYS:HG3	20	0.15
(1,4961)	1:36:A:GLY:HA2	2:239:B:LEU:HD21	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4961)	1:36:A:GLY:HA2	2:239:B:LEU:HD21	6	0.15
(1,4915)	2:149:B:ILE:HA	2:152:B:LEU:HD12	19	0.15
(1,4877)	2:247:B:TYR:HA	2:250:B:LEU:HD23	7	0.15
(1,4783)	2:168:B:LEU:H	2:168:B:LEU:HD12	13	0.15
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD12	16	0.15
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD13	12	0.15
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD13	16	0.15
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD12	17	0.15
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD22	6	0.15
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD21	19	0.15
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD23	17	0.15
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD23	19	0.15
(1,4770)	2:247:B:TYR:H	2:250:B:LEU:HD22	17	0.15
(1,4756)	1:37:A:GLN:HE21	1:34:A:LYS:HG3	7	0.15
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	17	0.15
(1,4478)	1:10:A:ILE:HA	1:7:A:ILE:HG12	8	0.15
(1,4442)	2:243:B:TYR:HD1	2:242:B:ARG:HG3	14	0.15
(1,4410)	1:9:A:GLU:H	1:7:A:ILE:HG12	13	0.15
(1,4409)	1:9:A:GLU:H	1:7:A:ILE:HG12	13	0.15
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD23	3	0.15
(1,4340)	2:197:B:LEU:H	2:197:B:LEU:HD13	8	0.15
(1,4340)	2:197:B:LEU:H	2:197:B:LEU:HD12	9	0.15
(1,4266)	1:14:A:LYS:HG3	1:11:A:GLN:HB3	4	0.15
(1,4236)	2:234:B:ARG:HD2	2:234:B:ARG:HB2	3	0.15
(1,4235)	2:151:B:GLU:HG3	2:154:B:LYS:HD3	2	0.15
(1,4189)	2:251:B:GLU:HA	2:251:B:GLU:HB3	11	0.15
(1,4189)	2:251:B:GLU:HA	2:251:B:GLU:HB3	13	0.15
(1,4189)	2:251:B:GLU:HA	2:251:B:GLU:HB3	19	0.15
(1,4173)	1:32:A:ASP:HA	1:31:A:LYS:HD2	19	0.15
(1,4159)	1:50:A:ARG:HA	1:50:A:ARG:HB3	1	0.15
(1,4159)	1:50:A:ARG:HA	1:50:A:ARG:HB3	18	0.15
(1,4095)	2:158:B:GLU:H	2:158:B:GLU:HB3	8	0.15
(1,4094)	2:154:B:LYS:H	2:154:B:LYS:HD2	9	0.15
(1,4061)	1:32:A:ASP:H	1:31:A:LYS:HD3	5	0.15
(1,4029)	1:27:A:ILE:HG23	1:17:A:VAL:HB	4	0.15
(1,4005)	2:143:B:ILE:HG23	1:37:A:GLN:HG3	11	0.15
(1,3942)	1:34:A:LYS:HE3	1:37:A:GLN:HG2	18	0.15
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	14	0.15
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	18	0.15
(1,3912)	1:48:A:ASN:HA	1:49:A:VAL:HB	1	0.15
(1,3880)	2:163:B:PHE:HD1	1:16:A:VAL:HB	1	0.15
(1,3789)	1:26:A:ILE:HG23	1:14:A:LYS:HB3	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3765)	1:26:A:ILE:HG13	1:47:A:TYR:HB3	2	0.15
(1,3765)	1:26:A:ILE:HG13	1:47:A:TYR:HB3	13	0.15
(1,3765)	1:26:A:ILE:HG13	1:47:A:TYR:HB3	17	0.15
(1,3747)	2:154:B:LYS:HD3	2:151:B:GLU:HG3	2	0.15
(1,3710)	2:146:B:ARG:HD3	2:147:B:GLU:HG2	19	0.15
(1,3697)	2:207:B:GLU:HA	2:207:B:GLU:HG3	2	0.15
(1,3675)	1:37:A:GLN:HA	2:144:B:GLU:HG2	7	0.15
(1,3669)	2:248:B:THR:HB	2:245:B:GLU:HG2	12	0.15
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	9	0.15
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	15	0.15
(1,3609)	1:3:A:ARG:HE	1:43:A:ASN:HB2	19	0.15
(1,3530)	2:194:B:TYR:H	2:191:B:GLU:HG3	2	0.15
(1,3529)	1:43:A:ASN:H	1:42:A:GLU:HG2	11	0.15
(1,3440)	1:37:A:GLN:HG2	2:143:B:ILE:HB	14	0.15
(1,3240)	2:194:B:TYR:HB3	2:190:B:ASP:HB3	13	0.15
(1,3103)	1:14:A:LYS:HB2	1:15:A:ALA:HA	4	0.15
(1,3102)	2:207:B:GLU:HG3	2:204:B:PRO:HD2	19	0.15
(1,3084)	2:149:B:ILE:HG12	2:145:B:ALA:HA	18	0.15
(1,3067)	2:146:B:ARG:HB3	2:145:B:ALA:HA	5	0.15
(1,3067)	2:146:B:ARG:HB3	2:145:B:ALA:HA	14	0.15
(1,3065)	2:144:B:GLU:HB3	2:145:B:ALA:HA	2	0.15
(1,3065)	2:144:B:GLU:HB3	2:145:B:ALA:HA	20	0.15
(1,3063)	1:31:A:LYS:HD2	1:32:A:ASP:HA	19	0.15
(1,2949)	2:201:B:LYS:HG3	2:201:B:LYS:HA	15	0.15
(1,2896)	2:166:B:LEU:HB3	1:24:A:PHE:HA	19	0.15
(1,2881)	2:141:B:GLU:HB2	2:141:B:GLU:HA	12	0.15
(1,2881)	2:141:B:GLU:HB2	2:141:B:GLU:HA	15	0.15
(1,2881)	2:141:B:GLU:HB2	2:141:B:GLU:HA	20	0.15
(1,2717)	2:152:B:LEU:HD13	2:153:B:LYS:HA	12	0.15
(1,2658)	2:155:B:LYS:HG2	2:155:B:LYS:HA	7	0.15
(1,2658)	2:155:B:LYS:HG2	2:155:B:LYS:HA	18	0.15
(1,2658)	2:155:B:LYS:HG2	2:155:B:LYS:HA	19	0.15
(1,2591)	2:246:B:TYR:HA	2:245:B:GLU:HA	8	0.15
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	14	0.15
(1,2422)	1:24:A:PHE:HD1	2:225:B:TYR:HA	13	0.15
(1,2413)	2:233:B:PHE:HE2	2:230:B:CYS:HA	5	0.15
(1,2413)	2:233:B:PHE:HE1	2:230:B:CYS:HA	16	0.15
(1,2279)	1:23:A:GLU:HB3	2:167:B:VAL:HA	16	0.15
(1,2278)	2:179:B:LEU:HG	2:180:B:CYS:HA	4	0.15
(1,2278)	2:179:B:LEU:HG	2:180:B:CYS:HA	7	0.15
(1,2278)	2:179:B:LEU:HG	2:180:B:CYS:HA	9	0.15
(1,2278)	2:179:B:LEU:HG	2:180:B:CYS:HA	11	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2278)	2:179:B:LEU:HG	2:180:B:CYS:HA	12	0.15
(1,2278)	2:179:B:LEU:HG	2:180:B:CYS:HA	16	0.15
(1,2258)	2:153:B:LYS:HB2	2:149:B:ILE:HA	18	0.15
(1,2116)	2:143:B:ILE:H	2:143:B:ILE:HD12	9	0.15
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD13	4	0.15
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD13	9	0.15
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD11	9	0.15
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD11	13	0.15
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD11	20	0.15
(1,2023)	1:16:A:VAL:HG21	1:9:A:GLU:H	14	0.15
(1,2023)	1:16:A:VAL:HG22	1:9:A:GLU:H	20	0.15
(1,2002)	2:155:B:LYS:HD3	2:158:B:GLU:H	15	0.15
(1,1948)	2:181:B:ILE:HD11	2:248:B:THR:H	2	0.15
(1,1929)	1:40:A:SER:HB3	1:5:A:GLY:H	13	0.15
(1,1918)	2:214:B:VAL:HG12	2:214:B:VAL:H	12	0.15
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	7	0.15
(1,1728)	2:226:B:ILE:HG22	2:229:B:LEU:H	20	0.15
(1,1710)	2:223:B:ARG:HG2	2:222:B:ASN:H	5	0.15
(1,1710)	2:223:B:ARG:HG2	2:222:B:ASN:H	12	0.15
(1,1626)	2:177:B:ARG:HA	2:180:B:CYS:H	16	0.15
(1,1543)	1:17:A:VAL:HG12	1:9:A:GLU:H	10	0.15
(1,1530)	1:35:A:VAL:HG23	1:9:A:GLU:H	2	0.15
(1,1517)	2:162:B:THR:HG22	2:165:B:ASP:H	7	0.15
(1,1517)	2:162:B:THR:HG22	2:165:B:ASP:H	20	0.15
(1,1514)	2:181:B:ILE:HD13	2:244:B:LEU:H	9	0.15
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	12	0.15
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	16	0.15
(1,1478)	2:234:B:ARG:HB2	2:235:B:SER:H	5	0.15
(1,1478)	2:234:B:ARG:HB2	2:235:B:SER:H	13	0.15
(1,1465)	1:44:A:GLU:HB2	1:45:A:ASP:H	8	0.15
(1,1465)	1:44:A:GLU:HB3	1:45:A:ASP:H	8	0.15
(1,1463)	2:191:B:GLU:HB2	2:195:B:ASN:H	10	0.15
(1,1428)	2:192:B:GLN:HB3	2:195:B:ASN:H	5	0.15
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	9	0.15
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	16	0.15
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	20	0.15
(1,1203)	2:166:B:LEU:HD21	2:225:B:TYR:H	17	0.15
(1,1187)	2:156:B:LEU:HD21	2:163:B:PHE:H	16	0.15
(1,1187)	2:156:B:LEU:HD23	2:163:B:PHE:H	20	0.15
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	5	0.15
(1,1152)	2:161:B:ILE:HG22	2:225:B:TYR:H	12	0.15
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	2	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	17	0.15
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	19	0.15
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	20	0.15
(1,1078)	2:237:B:LEU:HB3	2:241:B:LYS:H	16	0.15
(1,1037)	2:184:B:ALA:HB2	2:183:B:LEU:H	6	0.15
(1,957)	2:195:B:ASN:HB3	2:199:B:LYS:H	17	0.15
(1,859)	2:151:B:GLU:HA	2:154:B:LYS:H	3	0.15
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	12	0.15
(1,638)	1:10:A:ILE:HG22	1:14:A:LYS:H	8	0.15
(1,629)	2:231:B:LEU:HD11	2:230:B:CYS:H	1	0.15
(1,629)	2:143:B:ILE:HD11	2:142:B:ASP:H	10	0.15
(1,626)	2:214:B:VAL:HG12	2:215:B:HIS:H	8	0.15
(1,621)	1:25:A:LEU:HD12	1:25:A:LEU:H	4	0.15
(1,621)	1:25:A:LEU:HD13	1:25:A:LEU:H	20	0.15
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	1	0.15
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	5	0.15
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	12	0.15
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	13	0.15
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	19	0.15
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	20	0.15
(1,571)	2:234:B:ARG:HG2	2:233:B:PHE:H	18	0.15
(1,555)	2:193:B:MET:HB3	2:194:B:TYR:H	15	0.15
(1,514)	2:194:B:TYR:HB3	2:190:B:ASP:H	20	0.15
(1,501)	2:206:B:ASN:HB2	2:207:B:GLU:H	20	0.15
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	7	0.15
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	8	0.15
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	16	0.15
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	20	0.15
(1,436)	2:251:B:GLU:HA	2:251:B:GLU:H	3	0.15
(1,436)	2:251:B:GLU:HA	2:251:B:GLU:H	19	0.15
(1,433)	2:206:B:ASN:HA	2:208:B:LEU:H	17	0.15
(1,385)	1:41:A:PHE:HE2	1:6:A:ILE:H	8	0.15
(1,347)	2:200:B:ASN:HD21	2:197:B:LEU:H	10	0.15
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	1	0.15
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	14	0.15
(1,245)	1:11:A:GLN:HG3	1:15:A:ALA:H	15	0.15
(1,245)	1:11:A:GLN:HG3	1:15:A:ALA:H	20	0.15
(1,178)	1:14:A:LYS:HG2	1:29:A:ARG:H	4	0.15
(1,168)	2:143:B:ILE:HG12	2:144:B:GLU:H	5	0.15
(1,22)	1:26:A:ILE:HG22	1:47:A:TYR:H	4	0.15
(1,7)	1:35:A:VAL:HG11	1:8:A:TYR:H	1	0.15
(1,7)	1:35:A:VAL:HG13	1:8:A:TYR:H	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6265)	1:18:A:LEU:HG	1:8:A:TYR:HE2	1	0.14
(1,6228)	2:237:B:LEU:HB2	1:8:A:TYR:HE1	16	0.14
(1,6227)	1:6:A:ILE:HB	1:8:A:TYR:HE1	20	0.14
(1,6207)	1:5:A:GLY:H	2:243:B:TYR:HE1	1	0.14
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE1	1	0.14
(1,6163)	1:46:A:ILE:HA	1:47:A:TYR:HE2	20	0.14
(1,6117)	2:149:B:ILE:HG22	1:8:A:TYR:HD1	11	0.14
(1,6117)	2:149:B:ILE:HG21	1:8:A:TYR:HD2	14	0.14
(1,6095)	2:152:B:LEU:HG	2:163:B:PHE:HE2	13	0.14
(1,6050)	2:197:B:LEU:HD12	2:194:B:TYR:HD2	19	0.14
(1,6045)	2:166:B:LEU:HB2	2:225:B:TYR:HD2	6	0.14
(1,5966)	2:176:B:SER:HA	2:173:B:HIS:HE1	5	0.14
(1,5953)	2:239:B:LEU:HD11	2:242:B:ARG:HD2	11	0.14
(1,5953)	2:239:B:LEU:HD11	2:242:B:ARG:HD3	11	0.14
(1,5953)	2:239:B:LEU:HD12	2:242:B:ARG:HD2	11	0.14
(1,5953)	2:239:B:LEU:HD12	2:242:B:ARG:HD3	11	0.14
(1,5953)	2:239:B:LEU:HD13	2:242:B:ARG:HD2	11	0.14
(1,5953)	2:239:B:LEU:HD13	2:242:B:ARG:HD3	11	0.14
(1,5948)	2:179:B:LEU:HA	2:182:B:ARG:HD3	3	0.14
(1,5902)	1:21:A:GLU:HB2	1:19:A:THR:HG21	6	0.14
(1,5889)	1:25:A:LEU:HD13	1:19:A:THR:HA	1	0.14
(1,5884)	2:166:B:LEU:HB2	1:24:A:PHE:HA	14	0.14
(1,5877)	2:237:B:LEU:HB2	2:236:B:ASN:HA	8	0.14
(1,5852)	2:225:B:TYR:HE1	2:170:B:VAL:HG12	20	0.14
(1,5661)	2:187:B:LEU:HG	2:203:B:ILE:HG23	18	0.14
(1,5655)	2:144:B:GLU:HB2	2:143:B:ILE:HG22	10	0.14
(1,5629)	2:150:B:GLU:HG2	2:149:B:ILE:HG22	1	0.14
(1,5608)	1:36:A:GLY:HA2	1:6:A:ILE:HG22	9	0.14
(1,5608)	1:36:A:GLY:HA2	1:6:A:ILE:HG23	10	0.14
(1,5570)	2:225:B:TYR:HA	2:161:B:ILE:HG23	17	0.14
(1,5526)	1:38:A:GLN:HA	1:39:A:VAL:HG12	13	0.14
(1,5518)	1:27:A:ILE:HA	1:33:A:MET:HE3	17	0.14
(1,5432)	2:200:B:ASN:H	2:196:B:ALA:HB1	8	0.14
(1,5432)	2:195:B:ASN:H	2:196:B:ALA:HB2	12	0.14
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB3	8	0.14
(1,5237)	2:243:B:TYR:HA	2:244:B:LEU:HD23	1	0.14
(1,5231)	2:176:B:SER:HA	2:218:B:THR:HG21	19	0.14
(1,5225)	2:183:B:LEU:HA	2:212:B:ALA:HB1	2	0.14
(1,5175)	1:9:A:GLU:H	1:16:A:VAL:HG21	8	0.14
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG22	1	0.14
(1,4994)	1:7:A:ILE:HB	1:35:A:VAL:HG23	7	0.14
(1,4989)	1:14:A:LYS:HE2	2:164:B:LEU:HD22	6	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4989)	1:14:A:LYS:HE2	2:164:B:LEU:HD21	18	0.14
(1,4961)	1:36:A:GLY:HA2	2:239:B:LEU:HD21	4	0.14
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD23	13	0.14
(1,4915)	2:149:B:ILE:HA	2:152:B:LEU:HD12	12	0.14
(1,4915)	2:149:B:ILE:HA	2:152:B:LEU:HD13	14	0.14
(1,4779)	1:11:A:GLN:HE21	2:164:B:LEU:HD12	16	0.14
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD12	7	0.14
(1,4776)	2:235:B:SER:H	2:152:B:LEU:HD11	15	0.14
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD21	5	0.14
(1,4775)	1:4:A:LEU:H	1:4:A:LEU:HD21	17	0.14
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD22	5	0.14
(1,4734)	2:212:B:ALA:H	2:208:B:LEU:HD11	10	0.14
(1,4713)	2:144:B:GLU:H	2:239:B:LEU:HD23	20	0.14
(1,4575)	2:230:B:CYS:HB3	2:231:B:LEU:HD21	12	0.14
(1,4490)	2:176:B:SER:HA	2:179:B:LEU:HD12	13	0.14
(1,4478)	1:10:A:ILE:HA	1:7:A:ILE:HG12	17	0.14
(1,4478)	1:34:A:LYS:HA	1:7:A:ILE:HG12	19	0.14
(1,4410)	1:9:A:GLU:H	1:7:A:ILE:HG12	5	0.14
(1,4410)	1:9:A:GLU:H	1:7:A:ILE:HG12	10	0.14
(1,4409)	1:9:A:GLU:H	1:7:A:ILE:HG12	5	0.14
(1,4409)	1:9:A:GLU:H	1:7:A:ILE:HG12	10	0.14
(1,4392)	2:232:B:ILE:H	2:237:B:LEU:HD23	16	0.14
(1,4391)	1:37:A:GLN:HE21	1:7:A:ILE:HG13	18	0.14
(1,4340)	2:197:B:LEU:H	2:197:B:LEU:HD11	13	0.14
(1,4340)	2:197:B:LEU:H	2:197:B:LEU:HD12	14	0.14
(1,4296)	1:15:A:ALA:H	1:14:A:LYS:HD3	2	0.14
(1,4296)	1:15:A:ALA:H	1:14:A:LYS:HD3	20	0.14
(1,4236)	2:234:B:ARG:HD2	2:234:B:ARG:HB2	4	0.14
(1,4236)	2:234:B:ARG:HD2	2:234:B:ARG:HB2	19	0.14
(1,4199)	2:210:B:LYS:HA	2:209:B:LYS:HD2	17	0.14
(1,4159)	1:50:A:ARG:HA	1:50:A:ARG:HB3	13	0.14
(1,4095)	2:158:B:GLU:H	2:158:B:GLU:HB3	4	0.14
(1,4092)	2:221:B:ASN:HD21	2:217:B:ARG:HB3	12	0.14
(1,4089)	2:220:B:GLY:H	2:217:B:ARG:HB2	14	0.14
(1,4089)	2:220:B:GLY:H	2:217:B:ARG:HB2	18	0.14
(1,4047)	2:142:B:ASP:H	2:141:B:GLU:HB3	7	0.14
(1,4014)	2:170:B:VAL:HG23	1:23:A:GLU:HG2	9	0.14
(1,4014)	2:170:B:VAL:HG21	1:23:A:GLU:HG2	19	0.14
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	4	0.14
(1,3919)	2:171:B:PRO:HA	2:172:B:LYS:HB2	5	0.14
(1,3919)	2:171:B:PRO:HA	2:172:B:LYS:HB2	18	0.14
(1,3765)	1:26:A:ILE:HG13	1:47:A:TYR:HB3	1	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3710)	2:146:B:ARG:HD3	2:147:B:GLU:HG2	11	0.14
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	4	0.14
(1,3556)	2:208:B:LEU:H	2:207:B:GLU:HG3	17	0.14
(1,3272)	2:203:B:ILE:HD13	2:223:B:ARG:HD3	14	0.14
(1,3242)	2:147:B:GLU:HG2	2:146:B:ARG:HD3	11	0.14
(1,3240)	2:194:B:TYR:HB3	2:190:B:ASP:HB3	17	0.14
(1,3215)	1:29:A:ARG:HA	1:30:A:ARG:HD3	6	0.14
(1,3180)	2:205:B:ARG:H	2:202:B:ASN:HB3	15	0.14
(1,3174)	1:51:A:GLY:H	1:50:A:ARG:HD2	1	0.14
(1,3174)	1:51:A:GLY:H	1:50:A:ARG:HD3	1	0.14
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	20	0.14
(1,3102)	2:207:B:GLU:HG3	2:204:B:PRO:HD2	14	0.14
(1,3090)	2:237:B:LEU:HD11	2:144:B:GLU:HA	1	0.14
(1,3084)	2:149:B:ILE:HG12	2:145:B:ALA:HA	9	0.14
(1,3084)	2:149:B:ILE:HG12	2:145:B:ALA:HA	16	0.14
(1,3067)	2:146:B:ARG:HB3	2:145:B:ALA:HA	4	0.14
(1,3067)	2:146:B:ARG:HB3	2:145:B:ALA:HA	18	0.14
(1,3065)	2:146:B:ARG:HB2	2:145:B:ALA:HA	19	0.14
(1,2896)	2:166:B:LEU:HB3	1:24:A:PHE:HA	3	0.14
(1,2881)	2:141:B:GLU:HB2	2:141:B:GLU:HA	14	0.14
(1,2842)	2:234:B:ARG:HE	2:234:B:ARG:HA	13	0.14
(1,2803)	2:169:B:ASN:HD22	2:166:B:LEU:HA	11	0.14
(1,2719)	2:237:B:LEU:HD12	2:146:B:ARG:HA	10	0.14
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	1	0.14
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	6	0.14
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	17	0.14
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	18	0.14
(1,2591)	2:248:B:THR:HB	2:245:B:GLU:HA	13	0.14
(1,2564)	2:190:B:ASP:H	2:186:B:MET:HA	6	0.14
(1,2511)	2:153:B:LYS:H	2:150:B:GLU:HA	8	0.14
(1,2506)	2:245:B:GLU:H	2:242:B:ARG:HA	6	0.14
(1,2472)	1:7:A:ILE:HG13	1:7:A:ILE:HA	1	0.14
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	18	0.14
(1,2302)	2:171:B:PRO:HB3	2:181:B:ILE:HD11	8	0.14
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD11	15	0.14
(1,2194)	1:36:A:GLY:HA3	2:149:B:ILE:HD11	11	0.14
(1,2184)	2:152:B:LEU:HA	2:149:B:ILE:HA	17	0.14
(1,2116)	2:143:B:ILE:H	2:143:B:ILE:HD13	4	0.14
(1,2087)	1:38:A:GLN:H	1:7:A:ILE:HD11	14	0.14
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD11	10	0.14
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD12	9	0.14
(1,2040)	2:201:B:LYS:HG3	2:201:B:LYS:H	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2023)	1:16:A:VAL:HG21	1:9:A:GLU:H	8	0.14
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	11	0.14
(1,1929)	1:40:A:SER:HB3	1:5:A:GLY:H	14	0.14
(1,1918)	2:214:B:VAL:HG13	2:214:B:VAL:H	17	0.14
(1,1907)	2:208:B:LEU:HB3	2:214:B:VAL:H	19	0.14
(1,1733)	2:187:B:LEU:HD21	2:188:B:ALA:H	9	0.14
(1,1692)	1:17:A:VAL:HB	1:19:A:THR:H	16	0.14
(1,1588)	2:243:B:TYR:HD2	1:19:A:THR:H	19	0.14
(1,1519)	2:168:B:LEU:HD12	2:165:B:ASP:H	8	0.14
(1,1517)	2:162:B:THR:HG22	2:165:B:ASP:H	1	0.14
(1,1514)	2:181:B:ILE:HD11	2:244:B:LEU:H	5	0.14
(1,1514)	2:181:B:ILE:HD11	2:244:B:LEU:H	7	0.14
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	10	0.14
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	11	0.14
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	14	0.14
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	19	0.14
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	20	0.14
(1,1478)	2:234:B:ARG:HB2	2:235:B:SER:H	12	0.14
(1,1463)	2:191:B:GLU:HB2	2:195:B:ASN:H	1	0.14
(1,1452)	2:145:B:ALA:HB1	2:147:B:GLU:H	16	0.14
(1,1428)	2:192:B:GLN:HB3	2:195:B:ASN:H	19	0.14
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	1	0.14
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	2	0.14
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	4	0.14
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	18	0.14
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	13	0.14
(1,1259)	1:3:A:ARG:H	1:45:A:ASP:H	19	0.14
(1,1153)	2:228:B:ALA:HB3	2:225:B:TYR:H	16	0.14
(1,1132)	2:164:B:LEU:HD21	2:164:B:LEU:H	12	0.14
(1,1130)	2:239:B:LEU:HD13	2:243:B:TYR:H	1	0.14
(1,1130)	2:239:B:LEU:HD12	2:243:B:TYR:H	16	0.14
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	6	0.14
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	7	0.14
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	8	0.14
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	10	0.14
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	12	0.14
(1,1080)	2:144:B:GLU:HB3	2:143:B:ILE:H	6	0.14
(1,1062)	2:152:B:LEU:HB3	2:151:B:GLU:H	14	0.14
(1,1059)	2:223:B:ARG:HB3	2:221:B:ASN:H	12	0.14
(1,1049)	2:242:B:ARG:HG3	2:243:B:TYR:H	11	0.14
(1,1045)	2:171:B:PRO:HB3	2:181:B:ILE:H	18	0.14
(1,1042)	2:164:B:LEU:HB2	2:163:B:PHE:H	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1042)	2:164:B:LEU:HB2	2:163:B:PHE:H	16	0.14
(1,971)	2:210:B:LYS:HE2	2:211:B:LYS:H	4	0.14
(1,957)	2:199:B:LYS:HE3	2:199:B:LYS:H	3	0.14
(1,942)	2:246:B:TYR:HB2	2:246:B:TYR:H	4	0.14
(1,942)	2:246:B:TYR:HB2	2:246:B:TYR:H	7	0.14
(1,942)	2:246:B:TYR:HB2	2:246:B:TYR:H	18	0.14
(1,942)	2:246:B:TYR:HB2	2:246:B:TYR:H	19	0.14
(1,638)	1:10:A:ILE:HG23	1:14:A:LYS:H	1	0.14
(1,638)	1:10:A:ILE:HG22	1:14:A:LYS:H	14	0.14
(1,629)	2:231:B:LEU:HD13	2:230:B:CYS:H	18	0.14
(1,622)	2:229:B:LEU:HB3	2:233:B:PHE:H	14	0.14
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	3	0.14
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	7	0.14
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	8	0.14
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	17	0.14
(1,571)	2:234:B:ARG:HG2	2:233:B:PHE:H	2	0.14
(1,571)	2:234:B:ARG:HG2	2:233:B:PHE:H	17	0.14
(1,571)	2:234:B:ARG:HG2	2:233:B:PHE:H	19	0.14
(1,555)	2:193:B:MET:HB3	2:194:B:TYR:H	12	0.14
(1,555)	2:193:B:MET:HB3	2:194:B:TYR:H	19	0.14
(1,538)	1:11:A:GLN:HG3	1:14:A:LYS:H	6	0.14
(1,522)	1:42:A:GLU:HG3	1:43:A:ASN:H	12	0.14
(1,507)	2:241:B:LYS:HE2	2:238:B:ASN:H	3	0.14
(1,507)	2:241:B:LYS:HE3	2:238:B:ASN:H	3	0.14
(1,507)	2:241:B:LYS:HE2	2:238:B:ASN:H	7	0.14
(1,507)	2:241:B:LYS:HE3	2:238:B:ASN:H	7	0.14
(1,507)	2:241:B:LYS:HE2	2:238:B:ASN:H	12	0.14
(1,507)	2:241:B:LYS:HE3	2:238:B:ASN:H	12	0.14
(1,507)	2:241:B:LYS:HE2	2:238:B:ASN:H	13	0.14
(1,507)	2:241:B:LYS:HE3	2:238:B:ASN:H	13	0.14
(1,393)	2:225:B:TYR:HE1	2:170:B:VAL:H	7	0.14
(1,388)	1:24:A:PHE:HD2	1:25:A:LEU:H	20	0.14
(1,177)	1:7:A:ILE:HD13	1:30:A:ARG:H	3	0.14
(1,161)	1:52:A:LYS:HB2	1:52:A:LYS:H	14	0.14
(1,161)	1:52:A:LYS:HB2	1:52:A:LYS:H	19	0.14
(1,127)	1:28:A:ARG:HD3	1:29:A:ARG:H	6	0.14
(1,62)	2:219:B:ILE:HG23	2:205:B:ARG:H	15	0.14
(1,7)	1:35:A:VAL:HG11	1:8:A:TYR:H	3	0.14
(1,7)	1:35:A:VAL:HG11	1:8:A:TYR:H	20	0.14
(1,6271)	2:250:B:LEU:HD11	2:246:B:TYR:HE1	18	0.13
(1,6271)	2:250:B:LEU:HD11	2:246:B:TYR:HE2	18	0.13
(1,6271)	2:250:B:LEU:HD12	2:246:B:TYR:HE1	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6271)	2:250:B:LEU:HD12	2:246:B:TYR:HE2	18	0.13
(1,6271)	2:250:B:LEU:HD13	2:246:B:TYR:HE1	18	0.13
(1,6271)	2:250:B:LEU:HD13	2:246:B:TYR:HE2	18	0.13
(1,6271)	2:250:B:LEU:HD11	2:246:B:TYR:HE1	20	0.13
(1,6271)	2:250:B:LEU:HD11	2:246:B:TYR:HE2	20	0.13
(1,6271)	2:250:B:LEU:HD12	2:246:B:TYR:HE1	20	0.13
(1,6271)	2:250:B:LEU:HD12	2:246:B:TYR:HE2	20	0.13
(1,6271)	2:250:B:LEU:HD13	2:246:B:TYR:HE1	20	0.13
(1,6271)	2:250:B:LEU:HD13	2:246:B:TYR:HE2	20	0.13
(1,6236)	1:6:A:ILE:HG21	1:8:A:TYR:HE1	5	0.13
(1,6227)	1:6:A:ILE:HB	1:8:A:TYR:HE1	13	0.13
(1,6225)	2:242:B:ARG:HG2	2:243:B:TYR:HE2	9	0.13
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE1	15	0.13
(1,6188)	1:14:A:LYS:HB3	1:47:A:TYR:HE2	17	0.13
(1,6065)	1:9:A:GLU:H	2:163:B:PHE:HE2	11	0.13
(1,6040)	2:234:B:ARG:HB3	2:194:B:TYR:HD2	9	0.13
(1,6027)	2:191:B:GLU:HG3	2:194:B:TYR:HD1	15	0.13
(1,6023)	2:181:B:ILE:HB	2:247:B:TYR:HD2	16	0.13
(1,5981)	2:247:B:TYR:H	2:247:B:TYR:HD2	16	0.13
(1,5962)	2:156:B:LEU:HG	2:161:B:ILE:HD11	10	0.13
(1,5914)	1:18:A:LEU:HD23	2:240:B:SER:HB2	1	0.13
(1,5892)	2:228:B:ALA:HB3	2:227:B:ILE:HG23	6	0.13
(1,5877)	2:237:B:LEU:HB2	2:236:B:ASN:HA	2	0.13
(1,5775)	1:4:A:LEU:HD12	1:3:A:ARG:HD2	10	0.13
(1,5759)	2:191:B:GLU:HG2	2:188:B:ALA:HA	16	0.13
(1,5729)	1:41:A:PHE:H	1:27:A:ILE:HD11	10	0.13
(1,5729)	1:41:A:PHE:H	1:27:A:ILE:HD11	13	0.13
(1,5608)	1:36:A:GLY:HA2	1:6:A:ILE:HG23	16	0.13
(1,5542)	1:2:A:ASN:HA	1:1:A:MET:HE2	18	0.13
(1,5526)	1:38:A:GLN:HA	1:39:A:VAL:HG12	4	0.13
(1,5471)	2:143:B:ILE:H	2:143:B:ILE:HG21	1	0.13
(1,5471)	2:143:B:ILE:H	2:143:B:ILE:HG23	17	0.13
(1,5471)	2:143:B:ILE:H	2:143:B:ILE:HG22	18	0.13
(1,5429)	2:185:B:LYS:H	2:186:B:MET:HE2	6	0.13
(1,5396)	2:227:B:ILE:HG23	2:228:B:ALA:HB3	6	0.13
(1,5315)	2:226:B:ILE:HG13	2:218:B:THR:HG22	4	0.13
(1,5311)	2:234:B:ARG:HD2	2:188:B:ALA:HB1	11	0.13
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB2	17	0.13
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB3	18	0.13
(1,5267)	2:181:B:ILE:HA	2:244:B:LEU:HD22	3	0.13
(1,5111)	2:146:B:ARG:H	1:35:A:VAL:HG12	8	0.13
(1,4994)	1:7:A:ILE:HB	1:35:A:VAL:HG23	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4961)	1:36:A:GLY:HA2	2:239:B:LEU:HD22	15	0.13
(1,4959)	2:159:B:PHE:HB2	2:231:B:LEU:HD23	10	0.13
(1,4915)	2:153:B:LYS:HA	2:152:B:LEU:HD11	8	0.13
(1,4892)	2:211:B:LYS:HA	2:210:B:LYS:HG3	14	0.13
(1,4822)	2:246:B:TYR:HD1	2:250:B:LEU:HD12	13	0.13
(1,4808)	2:210:B:LYS:H	2:211:B:LYS:HG3	2	0.13
(1,4808)	2:210:B:LYS:H	2:211:B:LYS:HG3	15	0.13
(1,4786)	2:159:B:PHE:H	2:231:B:LEU:HD21	13	0.13
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD11	3	0.13
(1,4726)	2:197:B:LEU:H	2:197:B:LEU:HD22	20	0.13
(1,4684)	2:149:B:ILE:HD13	2:237:B:LEU:HD23	9	0.13
(1,4684)	2:232:B:ILE:HG23	2:237:B:LEU:HD23	12	0.13
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD13	6	0.13
(1,4572)	2:171:B:PRO:HD2	2:229:B:LEU:HD23	13	0.13
(1,4545)	2:213:B:LYS:HE3	2:213:B:LYS:HB3	8	0.13
(1,4545)	2:213:B:LYS:HE2	2:213:B:LYS:HB3	20	0.13
(1,4442)	2:243:B:TYR:HD2	2:242:B:ARG:HG3	17	0.13
(1,4410)	1:9:A:GLU:H	1:7:A:ILE:HG12	3	0.13
(1,4409)	1:9:A:GLU:H	1:7:A:ILE:HG12	3	0.13
(1,4395)	2:187:B:LEU:H	2:208:B:LEU:HD23	7	0.13
(1,4340)	2:197:B:LEU:H	2:197:B:LEU:HD12	16	0.13
(1,4296)	1:15:A:ALA:H	1:14:A:LYS:HD3	1	0.13
(1,4261)	1:34:A:LYS:HG2	1:37:A:GLN:HB2	1	0.13
(1,4236)	2:234:B:ARG:HD2	2:234:B:ARG:HB2	20	0.13
(1,4229)	1:48:A:ASN:HB2	1:50:A:ARG:HB2	20	0.13
(1,4189)	2:251:B:GLU:HA	2:251:B:GLU:HB3	2	0.13
(1,4189)	2:251:B:GLU:HA	2:251:B:GLU:HB3	12	0.13
(1,4180)	2:191:B:GLU:HA	2:191:B:GLU:HB3	2	0.13
(1,4105)	1:37:A:GLN:HE21	1:34:A:LYS:HD2	3	0.13
(1,4095)	2:158:B:GLU:H	2:158:B:GLU:HB3	12	0.13
(1,4089)	2:220:B:GLY:H	2:217:B:ARG:HB2	13	0.13
(1,4020)	1:16:A:VAL:HG21	1:9:A:GLU:HB2	18	0.13
(1,4005)	2:143:B:ILE:HG22	1:37:A:GLN:HG3	17	0.13
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	16	0.13
(1,3877)	2:163:B:PHE:HZ	2:153:B:LYS:HB3	20	0.13
(1,3800)	2:185:B:LYS:HG3	2:245:B:GLU:HG3	7	0.13
(1,3775)	1:16:A:VAL:HG23	1:9:A:GLU:HG2	1	0.13
(1,3725)	2:151:B:GLU:HB2	2:236:B:ASN:HB2	1	0.13
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	5	0.13
(1,3638)	2:243:B:TYR:HE2	1:38:A:GLN:HG2	10	0.13
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	10	0.13
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	19	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	20	0.13
(1,3556)	2:208:B:LEU:H	2:207:B:GLU:HG3	20	0.13
(1,3439)	2:142:B:ASP:HB3	2:143:B:ILE:HB	1	0.13
(1,3283)	1:4:A:LEU:HD12	1:3:A:ARG:HD2	10	0.13
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	1	0.13
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	3	0.13
(1,3248)	2:192:B:GLN:HB2	2:190:B:ASP:HB2	2	0.13
(1,3240)	2:194:B:TYR:HB3	2:190:B:ASP:HB3	6	0.13
(1,3240)	2:194:B:TYR:HB3	2:190:B:ASP:HB3	12	0.13
(1,3228)	2:187:B:LEU:HA	2:190:B:ASP:HB3	3	0.13
(1,3103)	1:14:A:LYS:HB2	1:15:A:ALA:HA	19	0.13
(1,3084)	2:149:B:ILE:HG12	2:145:B:ALA:HA	6	0.13
(1,3084)	2:149:B:ILE:HG12	2:145:B:ALA:HA	15	0.13
(1,3065)	2:144:B:GLU:HB3	2:145:B:ALA:HA	8	0.13
(1,3065)	2:146:B:ARG:HB2	2:145:B:ALA:HA	14	0.13
(1,2897)	1:26:A:ILE:HB	1:27:A:ILE:HA	17	0.13
(1,2896)	2:166:B:LEU:HB3	1:24:A:PHE:HA	16	0.13
(1,2896)	2:170:B:VAL:HG12	1:24:A:PHE:HA	17	0.13
(1,2721)	2:244:B:LEU:HD21	1:20:A:SER:HA	12	0.13
(1,2719)	2:237:B:LEU:HD11	2:146:B:ARG:HA	20	0.13
(1,2713)	2:153:B:LYS:HG2	2:154:B:LYS:HA	8	0.13
(1,2669)	2:191:B:GLU:HB2	2:191:B:GLU:HA	4	0.13
(1,2658)	2:155:B:LYS:HG2	2:155:B:LYS:HA	9	0.13
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	2	0.13
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	11	0.13
(1,2591)	2:246:B:TYR:HA	2:245:B:GLU:HA	14	0.13
(1,2591)	2:246:B:TYR:HA	2:245:B:GLU:HA	20	0.13
(1,2582)	2:178:B:GLN:HE22	2:178:B:GLN:HA	8	0.13
(1,2422)	1:24:A:PHE:HD1	2:225:B:TYR:HA	3	0.13
(1,2331)	2:183:B:LEU:HB3	2:180:B:CYS:HA	17	0.13
(1,2300)	2:177:B:ARG:HG2	2:181:B:ILE:HD11	13	0.13
(1,2278)	2:179:B:LEU:HG	2:180:B:CYS:HA	18	0.13
(1,2276)	2:217:B:ARG:HG2	2:218:B:THR:HA	20	0.13
(1,2276)	2:217:B:ARG:HG3	2:218:B:THR:HA	20	0.13
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD12	20	0.13
(1,2150)	1:38:A:GLN:HE22	1:6:A:ILE:HD11	3	0.13
(1,2150)	1:38:A:GLN:HE22	1:6:A:ILE:HD12	3	0.13
(1,2150)	1:38:A:GLN:HE22	1:6:A:ILE:HD13	3	0.13
(1,2143)	1:9:A:GLU:H	1:10:A:ILE:HD12	7	0.13
(1,2015)	2:143:B:ILE:HA	2:143:B:ILE:H	13	0.13
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	1	0.13
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	7	0.13
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	12	0.13
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	19	0.13
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	20	0.13
(1,1965)	2:219:B:ILE:HG21	2:220:B:GLY:H	5	0.13
(1,1965)	2:219:B:ILE:HG22	2:220:B:GLY:H	20	0.13
(1,1934)	1:39:A:VAL:HG13	1:5:A:GLY:H	7	0.13
(1,1918)	2:214:B:VAL:HG11	2:214:B:VAL:H	13	0.13
(1,1907)	2:208:B:LEU:HB3	2:214:B:VAL:H	1	0.13
(1,1626)	2:223:B:ARG:HA	2:226:B:ILE:H	20	0.13
(1,1534)	2:156:B:LEU:HD22	2:162:B:THR:H	19	0.13
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	2	0.13
(1,1478)	2:234:B:ARG:HB2	2:235:B:SER:H	2	0.13
(1,1478)	2:234:B:ARG:HB2	2:235:B:SER:H	6	0.13
(1,1452)	2:145:B:ALA:HB1	2:147:B:GLU:H	19	0.13
(1,1445)	1:21:A:GLU:HG3	1:3:A:ARG:HE	15	0.13
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	14	0.13
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	15	0.13
(1,1365)	2:223:B:ARG:HD2	2:224:B:LYS:H	10	0.13
(1,1158)	2:143:B:ILE:HG23	2:143:B:ILE:H	17	0.13
(1,1158)	2:143:B:ILE:HG22	2:143:B:ILE:H	18	0.13
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	12	0.13
(1,1153)	2:228:B:ALA:HB2	2:225:B:TYR:H	17	0.13
(1,1152)	2:161:B:ILE:HG23	2:225:B:TYR:H	4	0.13
(1,1132)	2:164:B:LEU:HD21	2:164:B:LEU:H	16	0.13
(1,1131)	2:162:B:THR:HG21	2:164:B:LEU:H	1	0.13
(1,1131)	2:162:B:THR:HG22	2:164:B:LEU:H	2	0.13
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	16	0.13
(1,1049)	2:242:B:ARG:HG3	2:243:B:TYR:H	3	0.13
(1,1042)	2:164:B:LEU:HB2	2:163:B:PHE:H	1	0.13
(1,1042)	2:164:B:LEU:HB2	2:163:B:PHE:H	7	0.13
(1,942)	2:246:B:TYR:HB2	2:246:B:TYR:H	8	0.13
(1,942)	2:246:B:TYR:HB2	2:246:B:TYR:H	9	0.13
(1,942)	2:246:B:TYR:HB2	2:246:B:TYR:H	10	0.13
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	4	0.13
(1,672)	2:156:B:LEU:HD12	2:155:B:LYS:H	17	0.13
(1,672)	2:156:B:LEU:HD13	2:155:B:LYS:H	19	0.13
(1,629)	2:231:B:LEU:HD12	2:230:B:CYS:H	14	0.13
(1,594)	1:4:A:LEU:HB3	1:4:A:LEU:H	6	0.13
(1,571)	2:234:B:ARG:HG2	2:233:B:PHE:H	16	0.13
(1,555)	2:193:B:MET:HB3	2:194:B:TYR:H	20	0.13
(1,538)	1:11:A:GLN:HG2	1:14:A:LYS:H	17	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,522)	1:42:A:GLU:HG3	1:43:A:ASN:H	5	0.13
(1,514)	2:194:B:TYR:HB3	2:190:B:ASP:H	19	0.13
(1,501)	2:206:B:ASN:HB2	2:207:B:GLU:H	14	0.13
(1,501)	2:206:B:ASN:HB2	2:207:B:GLU:H	18	0.13
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	19	0.13
(1,438)	1:28:A:ARG:HA	1:14:A:LYS:H	3	0.13
(1,393)	1:24:A:PHE:HD1	2:170:B:VAL:H	13	0.13
(1,385)	1:41:A:PHE:HE2	1:6:A:ILE:H	10	0.13
(1,319)	1:50:A:ARG:H	1:49:A:VAL:H	3	0.13
(1,273)	1:49:A:VAL:HG11	1:50:A:ARG:H	5	0.13
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	5	0.13
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	8	0.13
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	16	0.13
(1,245)	1:11:A:GLN:HG3	1:15:A:ALA:H	8	0.13
(1,245)	1:11:A:GLN:HG3	1:15:A:ALA:H	19	0.13
(1,177)	1:10:A:ILE:HG22	1:30:A:ARG:H	8	0.13
(1,172)	1:35:A:VAL:HG11	2:146:B:ARG:H	4	0.13
(1,172)	1:35:A:VAL:HG12	2:146:B:ARG:H	8	0.13
(1,140)	1:13:A:MET:HB3	1:29:A:ARG:H	3	0.13
(1,49)	2:143:B:ILE:HB	2:145:B:ALA:H	18	0.13
(1,22)	1:26:A:ILE:HG22	1:47:A:TYR:H	16	0.13
(1,7)	1:35:A:VAL:HG11	1:8:A:TYR:H	18	0.13
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE2	13	0.12
(1,6188)	1:14:A:LYS:HB3	1:47:A:TYR:HE1	7	0.12
(1,6184)	2:172:B:LYS:HB2	2:173:B:HIS:HD2	8	0.12
(1,6117)	2:149:B:ILE:HG21	1:8:A:TYR:HD2	3	0.12
(1,6117)	2:149:B:ILE:HG22	1:8:A:TYR:HD2	20	0.12
(1,6095)	2:153:B:LYS:HD3	2:163:B:PHE:HE2	11	0.12
(1,6045)	2:166:B:LEU:HB2	2:225:B:TYR:HD2	11	0.12
(1,6042)	2:161:B:ILE:HD12	2:159:B:PHE:HD2	13	0.12
(1,5910)	2:146:B:ARG:HG3	1:35:A:VAL:HG22	1	0.12
(1,5892)	2:228:B:ALA:HB3	2:227:B:ILE:HG21	17	0.12
(1,5892)	2:228:B:ALA:HB1	2:227:B:ILE:HG23	18	0.12
(1,5877)	2:237:B:LEU:HB2	2:236:B:ASN:HA	11	0.12
(1,5853)	2:169:B:ASN:HB3	2:166:B:LEU:HD21	15	0.12
(1,5769)	2:211:B:LYS:HD3	2:212:B:ALA:HA	13	0.12
(1,5759)	2:189:B:GLU:HG2	2:188:B:ALA:HA	3	0.12
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG21	13	0.12
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG22	13	0.12
(1,5628)	2:142:B:ASP:HB2	2:143:B:ILE:HG23	13	0.12
(1,5610)	2:205:B:ARG:HD2	2:203:B:ILE:HG23	12	0.12
(1,5608)	1:36:A:GLY:HA2	1:6:A:ILE:HG22	14	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5608)	1:36:A:GLY:HA2	1:6:A:ILE:HG21	18	0.12
(1,5608)	1:36:A:GLY:HA2	1:6:A:ILE:HG21	19	0.12
(1,5471)	2:143:B:ILE:H	2:143:B:ILE:HG21	11	0.12
(1,5471)	2:143:B:ILE:H	2:143:B:ILE:HG22	15	0.12
(1,5449)	2:207:B:GLU:H	2:203:B:ILE:HG22	10	0.12
(1,5428)	2:212:B:ALA:H	2:193:B:MET:HE2	14	0.12
(1,5396)	2:227:B:ILE:HG21	2:228:B:ALA:HB3	17	0.12
(1,5396)	2:227:B:ILE:HG23	2:228:B:ALA:HB1	18	0.12
(1,5372)	1:26:A:ILE:HD13	2:167:B:VAL:HG13	5	0.12
(1,5361)	2:244:B:LEU:HG	1:18:A:LEU:HD12	2	0.12
(1,5342)	2:164:B:LEU:HB2	2:162:B:THR:HG22	6	0.12
(1,5325)	1:14:A:LYS:HE2	1:16:A:VAL:HG22	16	0.12
(1,5315)	2:226:B:ILE:HG13	2:218:B:THR:HG22	19	0.12
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB1	12	0.12
(1,5225)	2:183:B:LEU:HA	2:212:B:ALA:HB3	1	0.12
(1,5088)	1:17:A:VAL:H	1:16:A:VAL:HG22	7	0.12
(1,5088)	1:17:A:VAL:H	1:16:A:VAL:HG22	9	0.12
(1,5035)	1:9:A:GLU:HG3	1:35:A:VAL:HG21	7	0.12
(1,5035)	1:9:A:GLU:HG3	1:35:A:VAL:HG22	7	0.12
(1,5035)	1:9:A:GLU:HG3	1:35:A:VAL:HG23	7	0.12
(1,5035)	1:9:A:GLU:HG3	1:35:A:VAL:HG21	18	0.12
(1,5035)	1:9:A:GLU:HG3	1:35:A:VAL:HG22	18	0.12
(1,5035)	1:9:A:GLU:HG3	1:35:A:VAL:HG23	18	0.12
(1,4975)	2:171:B:PRO:HB2	2:170:B:VAL:HG13	13	0.12
(1,4924)	2:156:B:LEU:HA	2:231:B:LEU:HD22	8	0.12
(1,4893)	2:210:B:LYS:HA	2:209:B:LYS:HG3	10	0.12
(1,4808)	2:210:B:LYS:H	2:211:B:LYS:HG3	5	0.12
(1,4808)	2:210:B:LYS:H	2:211:B:LYS:HG3	13	0.12
(1,4786)	2:159:B:PHE:H	2:231:B:LEU:HD22	16	0.12
(1,4778)	2:211:B:LYS:H	2:208:B:LEU:HD11	10	0.12
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD12	3	0.12
(1,4734)	2:212:B:ALA:H	2:208:B:LEU:HD12	8	0.12
(1,4713)	2:144:B:GLU:H	2:239:B:LEU:HD21	6	0.12
(1,4592)	2:142:B:ASP:HB2	2:143:B:ILE:HG13	19	0.12
(1,4560)	1:20:A:SER:HB3	1:3:A:ARG:HG2	3	0.12
(1,4546)	1:43:A:ASN:HB3	1:44:A:GLU:HB3	4	0.12
(1,4539)	2:153:B:LYS:HA	2:231:B:LEU:HD21	10	0.12
(1,4539)	2:153:B:LYS:HA	2:231:B:LEU:HD22	10	0.12
(1,4539)	2:153:B:LYS:HA	2:231:B:LEU:HD23	10	0.12
(1,4497)	1:23:A:GLU:HA	1:25:A:LEU:HD11	11	0.12
(1,4497)	1:43:A:ASN:HA	1:25:A:LEU:HD12	20	0.12
(1,4469)	2:144:B:GLU:HA	2:143:B:ILE:HG12	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4469)	2:144:B:GLU:HA	2:143:B:ILE:HG12	10	0.12
(1,4410)	1:9:A:GLU:H	1:7:A:ILE:HG12	16	0.12
(1,4410)	1:9:A:GLU:H	1:7:A:ILE:HG12	20	0.12
(1,4409)	1:9:A:GLU:H	1:7:A:ILE:HG12	16	0.12
(1,4409)	1:9:A:GLU:H	1:7:A:ILE:HG12	20	0.12
(1,4391)	1:37:A:GLN:HE21	1:7:A:ILE:HG13	8	0.12
(1,4391)	1:37:A:GLN:HE21	1:7:A:ILE:HG13	12	0.12
(1,4340)	2:197:B:LEU:H	2:197:B:LEU:HD13	4	0.12
(1,4340)	2:197:B:LEU:H	2:197:B:LEU:HD11	17	0.12
(1,4236)	2:234:B:ARG:HD2	2:234:B:ARG:HB2	6	0.12
(1,4189)	2:251:B:GLU:HA	2:251:B:GLU:HB3	18	0.12
(1,4154)	2:142:B:ASP:HA	2:141:B:GLU:HB2	19	0.12
(1,4095)	2:158:B:GLU:H	2:158:B:GLU:HB3	14	0.12
(1,4095)	2:158:B:GLU:H	2:158:B:GLU:HB3	20	0.12
(1,3929)	2:170:B:VAL:HA	1:49:A:VAL:HB	12	0.12
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	6	0.12
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	9	0.12
(1,3926)	2:212:B:ALA:HA	2:186:B:MET:HB3	19	0.12
(1,3912)	1:48:A:ASN:HA	1:49:A:VAL:HB	7	0.12
(1,3851)	2:155:B:LYS:H	2:155:B:LYS:HB3	12	0.12
(1,3789)	1:26:A:ILE:HG23	1:14:A:LYS:HB3	18	0.12
(1,3765)	1:26:A:ILE:HG13	1:47:A:TYR:HB3	8	0.12
(1,3765)	1:26:A:ILE:HG13	1:47:A:TYR:HB3	9	0.12
(1,3765)	1:26:A:ILE:HG13	1:47:A:TYR:HB3	10	0.12
(1,3747)	2:154:B:LYS:HD2	2:151:B:GLU:HG2	1	0.12
(1,3730)	2:177:B:ARG:HB3	1:23:A:GLU:HG2	17	0.12
(1,3725)	2:151:B:GLU:HB2	2:236:B:ASN:HB2	10	0.12
(1,3700)	2:251:B:GLU:HA	2:251:B:GLU:HG3	5	0.12
(1,3700)	2:251:B:GLU:HA	2:251:B:GLU:HG3	11	0.12
(1,3700)	2:251:B:GLU:HA	2:251:B:GLU:HG3	18	0.12
(1,3669)	2:248:B:THR:HB	2:245:B:GLU:HG2	1	0.12
(1,3669)	2:248:B:THR:HB	2:245:B:GLU:HG2	17	0.12
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	5	0.12
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	6	0.12
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	14	0.12
(1,3609)	1:46:A:ILE:H	1:43:A:ASN:HB3	17	0.12
(1,3591)	2:160:B:GLY:H	2:158:B:GLU:HG3	18	0.12
(1,3548)	1:50:A:ARG:H	1:48:A:ASN:HB2	8	0.12
(1,3439)	2:142:B:ASP:HB3	2:143:B:ILE:HB	3	0.12
(1,3274)	2:203:B:ILE:HG13	2:223:B:ARG:HD3	3	0.12
(1,3249)	2:158:B:GLU:HB2	2:201:B:LYS:HE2	12	0.12
(1,3228)	2:187:B:LEU:HA	2:190:B:ASP:HB3	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3226)	2:147:B:GLU:HA	2:146:B:ARG:HD3	20	0.12
(1,3195)	2:221:B:ASN:HD22	2:217:B:ARG:HD2	9	0.12
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	1	0.12
(1,3159)	2:183:B:LEU:H	2:182:B:ARG:HD3	4	0.12
(1,3103)	1:14:A:LYS:HB2	1:15:A:ALA:HA	17	0.12
(1,3103)	1:14:A:LYS:HB2	1:15:A:ALA:HA	20	0.12
(1,3087)	2:143:B:ILE:HG21	2:145:B:ALA:HA	8	0.12
(1,3067)	2:146:B:ARG:HB3	2:145:B:ALA:HA	8	0.12
(1,3065)	2:146:B:ARG:HB2	2:145:B:ALA:HA	7	0.12
(1,3065)	2:146:B:ARG:HB2	2:145:B:ALA:HA	15	0.12
(1,2903)	2:168:B:LEU:HG	2:165:B:ASP:HA	13	0.12
(1,2897)	1:26:A:ILE:HB	1:27:A:ILE:HA	15	0.12
(1,2889)	2:186:B:MET:HB3	2:183:B:LEU:HA	12	0.12
(1,2884)	1:1:A:MET:HG2	1:1:A:MET:HA	8	0.12
(1,2884)	1:1:A:MET:HG3	1:1:A:MET:HA	8	0.12
(1,2728)	2:231:B:LEU:HD21	2:155:B:LYS:HA	7	0.12
(1,2719)	2:237:B:LEU:HD12	2:146:B:ARG:HA	8	0.12
(1,2667)	2:223:B:ARG:HG3	2:224:B:LYS:HA	17	0.12
(1,2658)	2:155:B:LYS:HG2	2:155:B:LYS:HA	1	0.12
(1,2658)	2:155:B:LYS:HG2	2:155:B:LYS:HA	11	0.12
(1,2614)	2:217:B:ARG:HD2	2:217:B:ARG:HA	10	0.12
(1,2609)	2:246:B:TYR:HB2	2:243:B:TYR:HA	9	0.12
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	8	0.12
(1,2599)	2:243:B:TYR:HB2	2:242:B:ARG:HA	14	0.12
(1,2591)	2:246:B:TYR:HA	2:245:B:GLU:HA	2	0.12
(1,2582)	2:178:B:GLN:HE22	2:178:B:GLN:HA	6	0.12
(1,2582)	2:178:B:GLN:HE22	2:178:B:GLN:HA	12	0.12
(1,2582)	2:178:B:GLN:HE22	2:178:B:GLN:HA	19	0.12
(1,2506)	2:245:B:GLU:H	2:242:B:ARG:HA	4	0.12
(1,2280)	2:166:B:LEU:HB3	2:167:B:VAL:HA	8	0.12
(1,2280)	2:166:B:LEU:HB3	2:167:B:VAL:HA	9	0.12
(1,2278)	2:179:B:LEU:HG	2:180:B:CYS:HA	10	0.12
(1,2276)	2:217:B:ARG:HG2	2:218:B:THR:HA	8	0.12
(1,2276)	2:217:B:ARG:HG3	2:218:B:THR:HA	8	0.12
(1,2188)	1:37:A:GLN:HA	2:143:B:ILE:HD12	5	0.12
(1,2143)	1:9:A:GLU:H	1:10:A:ILE:HD11	14	0.12
(1,2139)	2:159:B:PHE:HD2	2:161:B:ILE:HD12	13	0.12
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD11	6	0.12
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD13	5	0.12
(1,2058)	1:36:A:GLY:H	1:7:A:ILE:HD13	12	0.12
(1,2058)	1:36:A:GLY:H	1:7:A:ILE:HD12	13	0.12
(1,2051)	2:205:B:ARG:HB3	2:209:B:LYS:H	16	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	3	0.12
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	4	0.12
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	5	0.12
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	8	0.12
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	13	0.12
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	16	0.12
(1,1946)	2:249:B:MET:HB3	2:248:B:THR:H	17	0.12
(1,1914)	1:49:A:VAL:HG21	1:51:A:GLY:H	17	0.12
(1,1914)	1:49:A:VAL:HG22	1:51:A:GLY:H	17	0.12
(1,1914)	1:49:A:VAL:HG23	1:51:A:GLY:H	17	0.12
(1,1885)	2:158:B:GLU:HB2	2:160:B:GLY:H	9	0.12
(1,1796)	2:201:B:LYS:HE2	2:200:B:ASN:H	12	0.12
(1,1728)	2:226:B:ILE:HG21	2:229:B:LEU:H	6	0.12
(1,1728)	2:226:B:ILE:HG22	2:229:B:LEU:H	16	0.12
(1,1626)	2:223:B:ARG:HA	2:226:B:ILE:H	4	0.12
(1,1626)	2:223:B:ARG:HA	2:226:B:ILE:H	9	0.12
(1,1534)	2:156:B:LEU:HD22	2:162:B:THR:H	5	0.12
(1,1521)	1:6:A:ILE:HG23	1:37:A:GLN:H	1	0.12
(1,1521)	1:6:A:ILE:HG21	1:37:A:GLN:H	3	0.12
(1,1514)	2:181:B:ILE:HD12	2:244:B:LEU:H	4	0.12
(1,1491)	1:35:A:VAL:HB	1:9:A:GLU:H	16	0.12
(1,1489)	1:31:A:LYS:HG2	1:33:A:MET:H	16	0.12
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	18	0.12
(1,1478)	2:234:B:ARG:HB2	2:235:B:SER:H	8	0.12
(1,1463)	2:191:B:GLU:HB2	2:195:B:ASN:H	16	0.12
(1,1452)	2:145:B:ALA:HB2	2:147:B:GLU:H	15	0.12
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	3	0.12
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	17	0.12
(1,1345)	1:33:A:MET:HA	1:33:A:MET:H	6	0.12
(1,1300)	2:243:B:TYR:HE1	1:21:A:GLU:H	4	0.12
(1,1187)	2:156:B:LEU:HD23	2:163:B:PHE:H	14	0.12
(1,1158)	2:143:B:ILE:HG21	2:143:B:ILE:H	11	0.12
(1,1153)	2:228:B:ALA:HB3	2:225:B:TYR:H	10	0.12
(1,1131)	2:162:B:THR:HG23	2:164:B:LEU:H	3	0.12
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	15	0.12
(1,1080)	2:144:B:GLU:HB3	2:143:B:ILE:H	11	0.12
(1,1078)	2:237:B:LEU:HB3	2:241:B:LYS:H	12	0.12
(1,1078)	2:237:B:LEU:HB3	2:241:B:LYS:H	13	0.12
(1,1037)	2:184:B:ALA:HB3	2:183:B:LEU:H	4	0.12
(1,1037)	2:184:B:ALA:HB3	2:183:B:LEU:H	8	0.12
(1,1016)	2:238:B:ASN:HB2	2:242:B:ARG:H	4	0.12
(1,1016)	2:238:B:ASN:HB2	2:242:B:ARG:H	15	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,957)	2:195:B:ASN:HB3	2:199:B:LYS:H	16	0.12
(1,942)	2:246:B:TYR:HB2	2:246:B:TYR:H	3	0.12
(1,942)	2:246:B:TYR:HB2	2:246:B:TYR:H	20	0.12
(1,871)	2:249:B:MET:HA	2:249:B:MET:H	16	0.12
(1,859)	2:151:B:GLU:HA	2:154:B:LYS:H	19	0.12
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	2	0.12
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	8	0.12
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	17	0.12
(1,672)	2:156:B:LEU:HD13	2:155:B:LYS:H	16	0.12
(1,629)	2:143:B:ILE:HD13	2:142:B:ASP:H	6	0.12
(1,621)	1:25:A:LEU:HD13	1:25:A:LEU:H	5	0.12
(1,621)	1:25:A:LEU:HD11	1:25:A:LEU:H	10	0.12
(1,601)	2:179:B:LEU:HG	2:179:B:LEU:H	15	0.12
(1,576)	2:210:B:LYS:HG2	2:207:B:GLU:H	3	0.12
(1,571)	2:234:B:ARG:HG2	2:233:B:PHE:H	6	0.12
(1,571)	2:234:B:ARG:HG2	2:233:B:PHE:H	7	0.12
(1,571)	2:234:B:ARG:HG2	2:233:B:PHE:H	8	0.12
(1,571)	2:234:B:ARG:HG2	2:233:B:PHE:H	10	0.12
(1,571)	2:234:B:ARG:HG2	2:233:B:PHE:H	20	0.12
(1,555)	2:193:B:MET:HB3	2:194:B:TYR:H	4	0.12
(1,555)	2:193:B:MET:HB3	2:194:B:TYR:H	14	0.12
(1,548)	2:178:B:GLN:HB3	2:179:B:LEU:H	10	0.12
(1,538)	1:11:A:GLN:HG3	1:14:A:LYS:H	5	0.12
(1,514)	2:194:B:TYR:HB3	2:190:B:ASP:H	5	0.12
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	6	0.12
(1,461)	2:191:B:GLU:HA	2:193:B:MET:H	20	0.12
(1,436)	2:251:B:GLU:HA	2:251:B:GLU:H	17	0.12
(1,402)	1:19:A:THR:HB	1:6:A:ILE:H	7	0.12
(1,402)	1:19:A:THR:HB	1:6:A:ILE:H	18	0.12
(1,393)	1:24:A:PHE:HD2	2:170:B:VAL:H	4	0.12
(1,388)	1:24:A:PHE:HD2	1:25:A:LEU:H	16	0.12
(1,273)	1:49:A:VAL:HG21	1:50:A:ARG:H	18	0.12
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	6	0.12
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	11	0.12
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	17	0.12
(1,260)	2:237:B:LEU:HB3	2:237:B:LEU:H	20	0.12
(1,245)	1:11:A:GLN:HG3	1:15:A:ALA:H	18	0.12
(1,177)	1:7:A:ILE:HD13	1:30:A:ARG:H	14	0.12
(1,168)	2:143:B:ILE:HG12	2:144:B:GLU:H	3	0.12
(1,114)	1:51:A:GLY:HA2	1:52:A:LYS:H	12	0.12
(1,7)	1:35:A:VAL:HG11	1:8:A:TYR:H	8	0.12
(1,7)	1:35:A:VAL:HG12	1:8:A:TYR:H	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6271)	2:250:B:LEU:HD11	2:246:B:TYR:HE1	12	0.11
(1,6271)	2:250:B:LEU:HD11	2:246:B:TYR:HE2	12	0.11
(1,6271)	2:250:B:LEU:HD12	2:246:B:TYR:HE1	12	0.11
(1,6271)	2:250:B:LEU:HD12	2:246:B:TYR:HE2	12	0.11
(1,6271)	2:250:B:LEU:HD13	2:246:B:TYR:HE1	12	0.11
(1,6271)	2:250:B:LEU:HD13	2:246:B:TYR:HE2	12	0.11
(1,6228)	2:237:B:LEU:HB2	1:8:A:TYR:HE1	14	0.11
(1,6228)	2:237:B:LEU:HB2	1:8:A:TYR:HE1	15	0.11
(1,6192)	2:188:B:ALA:HB1	2:194:B:TYR:HE1	13	0.11
(1,6050)	2:197:B:LEU:HD11	2:194:B:TYR:HD1	4	0.11
(1,6023)	1:21:A:GLU:HG2	2:247:B:TYR:HD1	9	0.11
(1,5967)	2:172:B:LYS:HE2	2:173:B:HIS:HE1	11	0.11
(1,5967)	2:172:B:LYS:HE3	2:173:B:HIS:HE1	11	0.11
(1,5950)	2:241:B:LYS:HG3	2:238:B:ASN:HA	19	0.11
(1,5948)	2:179:B:LEU:HA	2:182:B:ARG:HD3	11	0.11
(1,5915)	2:168:B:LEU:HA	1:49:A:VAL:HG11	12	0.11
(1,5915)	2:168:B:LEU:HA	1:49:A:VAL:HG12	12	0.11
(1,5915)	2:168:B:LEU:HA	1:49:A:VAL:HG13	12	0.11
(1,5915)	2:168:B:LEU:HA	1:49:A:VAL:HG11	15	0.11
(1,5915)	2:168:B:LEU:HA	1:49:A:VAL:HG12	15	0.11
(1,5915)	2:168:B:LEU:HA	1:49:A:VAL:HG13	15	0.11
(1,5892)	2:228:B:ALA:HB1	2:227:B:ILE:HG21	8	0.11
(1,5884)	2:166:B:LEU:HB2	1:24:A:PHE:HA	4	0.11
(1,5884)	2:166:B:LEU:HB2	1:24:A:PHE:HA	10	0.11
(1,5877)	2:241:B:LYS:HD2	2:236:B:ASN:HA	3	0.11
(1,5877)	2:237:B:LEU:HB2	2:236:B:ASN:HA	16	0.11
(1,5864)	2:183:B:LEU:HA	2:186:B:MET:HG3	2	0.11
(1,5864)	2:183:B:LEU:HA	2:186:B:MET:HG3	6	0.11
(1,5775)	1:25:A:LEU:HD12	1:3:A:ARG:HD3	3	0.11
(1,5775)	1:25:A:LEU:HD13	1:3:A:ARG:HD3	11	0.11
(1,5766)	2:148:B:ASP:HB3	2:236:B:ASN:HA	10	0.11
(1,5758)	2:187:B:LEU:HB3	2:188:B:ALA:HA	1	0.11
(1,5753)	2:166:B:LEU:HD11	2:228:B:ALA:HA	2	0.11
(1,5753)	2:166:B:LEU:HD11	2:228:B:ALA:HA	18	0.11
(1,5746)	2:189:B:GLU:HB2	2:185:B:LYS:HA	1	0.11
(1,5746)	2:189:B:GLU:HB2	2:185:B:LYS:HA	10	0.11
(1,5737)	1:23:A:GLU:HG2	2:171:B:PRO:HA	6	0.11
(1,5713)	2:201:B:LYS:HA	2:227:B:ILE:HG22	5	0.11
(1,5713)	2:201:B:LYS:HA	2:227:B:ILE:HG21	15	0.11
(1,5661)	2:187:B:LEU:HG	2:203:B:ILE:HG23	2	0.11
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG22	11	0.11
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB2	16	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5595)	2:236:B:ASN:HB3	2:145:B:ALA:HB1	18	0.11
(1,5471)	2:143:B:ILE:H	2:143:B:ILE:HG23	13	0.11
(1,5471)	2:143:B:ILE:H	2:143:B:ILE:HG22	14	0.11
(1,5457)	2:187:B:LEU:H	2:193:B:MET:HE2	17	0.11
(1,5396)	2:227:B:ILE:HG21	2:228:B:ALA:HB1	8	0.11
(1,5372)	1:26:A:ILE:HD12	2:167:B:VAL:HG12	8	0.11
(1,5342)	2:164:B:LEU:HB2	2:162:B:THR:HG23	18	0.11
(1,5315)	2:179:B:LEU:HB2	2:218:B:THR:HG22	8	0.11
(1,5296)	2:225:B:TYR:HB3	2:228:B:ALA:HB1	4	0.11
(1,5237)	2:243:B:TYR:HA	2:244:B:LEU:HD23	6	0.11
(1,5225)	2:183:B:LEU:HA	2:212:B:ALA:HB2	12	0.11
(1,5138)	2:165:B:ASP:H	2:162:B:THR:HG21	17	0.11
(1,5111)	2:146:B:ARG:H	1:35:A:VAL:HG13	2	0.11
(1,5088)	1:17:A:VAL:H	1:16:A:VAL:HG23	4	0.11
(1,5088)	1:17:A:VAL:H	1:16:A:VAL:HG23	18	0.11
(1,5052)	2:167:B:VAL:HG13	2:170:B:VAL:HG11	20	0.11
(1,5051)	2:226:B:ILE:HG21	2:230:B:CYS:HB2	7	0.11
(1,5000)	2:189:B:GLU:HG3	2:185:B:LYS:HG3	20	0.11
(1,4994)	1:7:A:ILE:HB	1:35:A:VAL:HG23	3	0.11
(1,4961)	1:36:A:GLY:HA2	2:239:B:LEU:HD21	17	0.11
(1,4915)	2:153:B:LYS:HA	2:152:B:LEU:HD12	1	0.11
(1,4915)	2:149:B:ILE:HA	2:152:B:LEU:HD11	3	0.11
(1,4893)	2:210:B:LYS:HA	2:209:B:LYS:HG3	4	0.11
(1,4893)	2:210:B:LYS:HA	2:209:B:LYS:HG2	15	0.11
(1,4808)	2:210:B:LYS:H	2:211:B:LYS:HG3	11	0.11
(1,4801)	2:159:B:PHE:HZ	2:155:B:LYS:HG3	15	0.11
(1,4776)	2:152:B:LEU:H	2:152:B:LEU:HD11	9	0.11
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD22	2	0.11
(1,4771)	2:250:B:LEU:H	2:250:B:LEU:HD21	11	0.11
(1,4734)	2:212:B:ALA:H	2:208:B:LEU:HD12	4	0.11
(1,4684)	2:149:B:ILE:HD13	2:237:B:LEU:HD23	10	0.11
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD11	7	0.11
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	6	0.11
(1,4584)	2:185:B:LYS:HE2	2:241:B:LYS:HG2	15	0.11
(1,4486)	2:243:B:TYR:HA	2:239:B:LEU:HG	9	0.11
(1,4478)	1:34:A:LYS:HA	1:7:A:ILE:HG12	18	0.11
(1,4469)	2:144:B:GLU:HA	2:143:B:ILE:HG12	5	0.11
(1,4469)	2:144:B:GLU:HA	2:143:B:ILE:HG12	9	0.11
(1,4469)	2:144:B:GLU:HA	2:239:B:LEU:HG	11	0.11
(1,4418)	2:233:B:PHE:HE2	2:185:B:LYS:HD2	7	0.11
(1,4368)	1:34:A:LYS:H	1:7:A:ILE:HG12	6	0.11
(1,4340)	2:197:B:LEU:H	2:197:B:LEU:HD13	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4340)	2:197:B:LEU:H	2:197:B:LEU:HD11	18	0.11
(1,4330)	2:237:B:LEU:H	2:237:B:LEU:HG	15	0.11
(1,4296)	1:15:A:ALA:H	1:14:A:LYS:HD3	8	0.11
(1,4296)	1:15:A:ALA:H	1:14:A:LYS:HD3	10	0.11
(1,4236)	2:234:B:ARG:HD2	2:234:B:ARG:HB2	9	0.11
(1,4235)	2:151:B:GLU:HG2	2:154:B:LYS:HD3	8	0.11
(1,4235)	2:151:B:GLU:HG2	2:154:B:LYS:HD2	9	0.11
(1,4209)	2:205:B:ARG:HD2	2:205:B:ARG:HB2	1	0.11
(1,4173)	1:34:A:LYS:HA	1:34:A:LYS:HD2	8	0.11
(1,4116)	2:148:B:ASP:H	2:144:B:GLU:HB3	7	0.11
(1,4105)	1:37:A:GLN:HE21	1:34:A:LYS:HD2	19	0.11
(1,4095)	2:158:B:GLU:H	2:158:B:GLU:HB3	7	0.11
(1,4095)	2:158:B:GLU:H	2:158:B:GLU:HB3	11	0.11
(1,4095)	2:158:B:GLU:H	2:158:B:GLU:HB3	13	0.11
(1,4095)	2:158:B:GLU:H	2:158:B:GLU:HB3	16	0.11
(1,4029)	1:27:A:ILE:HG22	1:17:A:VAL:HB	17	0.11
(1,4015)	2:170:B:VAL:HG22	1:23:A:GLU:HG3	7	0.11
(1,4015)	2:170:B:VAL:HG22	1:23:A:GLU:HG3	20	0.11
(1,3942)	1:34:A:LYS:HE2	1:37:A:GLN:HG2	9	0.11
(1,3886)	1:24:A:PHE:HD1	2:170:B:VAL:HB	5	0.11
(1,3747)	2:154:B:LYS:HD3	2:151:B:GLU:HG2	8	0.11
(1,3747)	2:154:B:LYS:HD2	2:151:B:GLU:HG2	9	0.11
(1,3725)	2:151:B:GLU:HB2	2:236:B:ASN:HB2	12	0.11
(1,3700)	2:251:B:GLU:HA	2:251:B:GLU:HG3	12	0.11
(1,3700)	2:251:B:GLU:HA	2:251:B:GLU:HG3	19	0.11
(1,3691)	2:149:B:ILE:HA	2:150:B:GLU:HG2	2	0.11
(1,3670)	2:143:B:ILE:HA	1:38:A:GLN:HG2	13	0.11
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	8	0.11
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	11	0.11
(1,3629)	2:233:B:PHE:HZ	2:245:B:GLU:HG3	17	0.11
(1,3439)	2:142:B:ASP:HB3	2:143:B:ILE:HB	17	0.11
(1,3439)	2:142:B:ASP:HB3	2:143:B:ILE:HB	18	0.11
(1,3283)	1:25:A:LEU:HD12	1:3:A:ARG:HD3	3	0.11
(1,3283)	1:25:A:LEU:HD13	1:3:A:ARG:HD3	11	0.11
(1,3250)	2:167:B:VAL:HB	2:168:B:LEU:HB3	19	0.11
(1,3248)	2:192:B:GLN:HB2	2:190:B:ASP:HB2	7	0.11
(1,3246)	1:13:A:MET:HB3	1:29:A:ARG:HD3	4	0.11
(1,3240)	2:194:B:TYR:HB3	2:190:B:ASP:HB3	14	0.11
(1,3215)	1:29:A:ARG:HA	1:30:A:ARG:HD3	19	0.11
(1,3174)	1:51:A:GLY:H	1:50:A:ARG:HD2	14	0.11
(1,3174)	1:51:A:GLY:H	1:50:A:ARG:HD3	14	0.11
(1,3103)	1:14:A:LYS:HB2	1:15:A:ALA:HA	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3103)	1:14:A:LYS:HB2	1:15:A:ALA:HA	9	0.11
(1,3084)	2:149:B:ILE:HG12	2:145:B:ALA:HA	2	0.11
(1,3084)	2:149:B:ILE:HG12	2:145:B:ALA:HA	3	0.11
(1,3065)	2:146:B:ARG:HB2	2:145:B:ALA:HA	4	0.11
(1,3063)	1:34:A:LYS:HD2	1:34:A:LYS:HA	8	0.11
(1,2932)	1:7:A:ILE:HG13	1:38:A:GLN:HA	1	0.11
(1,2932)	1:7:A:ILE:HG13	1:38:A:GLN:HA	4	0.11
(1,2902)	2:174:B:ARG:HG2	2:175:B:ASP:HA	11	0.11
(1,2902)	2:174:B:ARG:HG3	2:175:B:ASP:HA	11	0.11
(1,2902)	2:174:B:ARG:HG2	2:175:B:ASP:HA	18	0.11
(1,2902)	2:174:B:ARG:HG3	2:175:B:ASP:HA	18	0.11
(1,2897)	1:26:A:ILE:HB	1:27:A:ILE:HA	2	0.11
(1,2897)	1:26:A:ILE:HB	1:27:A:ILE:HA	8	0.11
(1,2717)	2:152:B:LEU:HD12	2:153:B:LYS:HA	1	0.11
(1,2717)	2:149:B:ILE:HG22	2:153:B:LYS:HA	3	0.11
(1,2702)	2:239:B:LEU:HG	2:243:B:TYR:HA	9	0.11
(1,2658)	2:154:B:LYS:HG3	2:155:B:LYS:HA	8	0.11
(1,2658)	2:155:B:LYS:HG2	2:155:B:LYS:HA	17	0.11
(1,2619)	2:209:B:LYS:HE2	2:209:B:LYS:HA	10	0.11
(1,2619)	2:209:B:LYS:HE3	2:209:B:LYS:HA	10	0.11
(1,2600)	2:153:B:LYS:HA	2:150:B:GLU:HA	8	0.11
(1,2600)	2:149:B:ILE:HA	2:150:B:GLU:HA	16	0.11
(1,2600)	2:149:B:ILE:HA	2:150:B:GLU:HA	20	0.11
(1,2591)	2:246:B:TYR:HA	2:245:B:GLU:HA	10	0.11
(1,2591)	2:246:B:TYR:HA	2:245:B:GLU:HA	17	0.11
(1,2582)	2:178:B:GLN:HE22	2:178:B:GLN:HA	9	0.11
(1,2506)	2:245:B:GLU:H	2:242:B:ARG:HA	9	0.11
(1,2420)	2:194:B:TYR:HE1	2:230:B:CYS:HA	10	0.11
(1,2413)	2:233:B:PHE:HE1	2:230:B:CYS:HA	11	0.11
(1,2369)	2:149:B:ILE:HD12	1:35:A:VAL:HA	1	0.11
(1,2340)	2:231:B:LEU:HD13	2:227:B:ILE:HA	7	0.11
(1,2340)	2:187:B:LEU:HD21	2:227:B:ILE:HA	17	0.11
(1,2280)	2:166:B:LEU:HB3	2:167:B:VAL:HA	3	0.11
(1,2276)	2:217:B:ARG:HG2	2:218:B:THR:HA	4	0.11
(1,2276)	2:217:B:ARG:HG3	2:218:B:THR:HA	4	0.11
(1,2268)	1:7:A:ILE:HB	1:10:A:ILE:HD13	4	0.11
(1,2258)	2:153:B:LYS:HB2	2:149:B:ILE:HA	5	0.11
(1,2257)	2:150:B:GLU:HG3	2:149:B:ILE:HA	1	0.11
(1,2224)	1:7:A:ILE:HA	1:27:A:ILE:HD13	20	0.11
(1,2222)	2:240:B:SER:HB2	2:149:B:ILE:HD11	12	0.11
(1,2218)	2:240:B:SER:HB3	2:232:B:ILE:HD11	14	0.11
(1,2218)	2:240:B:SER:HB3	2:232:B:ILE:HD12	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2187)	2:143:B:ILE:HA	2:143:B:ILE:HD11	11	0.11
(1,2184)	2:152:B:LEU:HA	2:149:B:ILE:HA	3	0.11
(1,2184)	2:152:B:LEU:HA	2:149:B:ILE:HA	13	0.11
(1,2136)	2:223:B:ARG:H	2:226:B:ILE:HD13	19	0.11
(1,2116)	2:143:B:ILE:H	2:143:B:ILE:HD12	3	0.11
(1,2086)	2:208:B:LEU:H	2:219:B:ILE:HD11	1	0.11
(1,2067)	1:27:A:ILE:H	1:27:A:ILE:HD13	17	0.11
(1,2057)	2:144:B:GLU:H	2:143:B:ILE:HD11	11	0.11
(1,2046)	2:196:B:ALA:HA	2:199:B:LYS:H	12	0.11
(1,2002)	2:155:B:LYS:HD2	2:158:B:GLU:H	17	0.11
(1,2002)	2:155:B:LYS:HD2	2:158:B:GLU:H	19	0.11
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	6	0.11
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	14	0.11
(1,1948)	2:181:B:ILE:HD13	2:248:B:THR:H	1	0.11
(1,1929)	1:40:A:SER:HB3	1:5:A:GLY:H	16	0.11
(1,1918)	2:214:B:VAL:HG12	2:214:B:VAL:H	3	0.11
(1,1760)	2:199:B:LYS:H	2:202:B:ASN:H	20	0.11
(1,1742)	1:25:A:LEU:HD13	1:23:A:GLU:H	13	0.11
(1,1710)	2:223:B:ARG:HG2	2:222:B:ASN:H	3	0.11
(1,1691)	1:21:A:GLU:HB2	1:19:A:THR:H	18	0.11
(1,1534)	2:156:B:LEU:HD23	2:162:B:THR:H	1	0.11
(1,1530)	1:35:A:VAL:HG21	1:9:A:GLU:H	19	0.11
(1,1526)	1:46:A:ILE:HG13	1:3:A:ARG:HE	6	0.11
(1,1517)	2:162:B:THR:HG21	2:165:B:ASP:H	17	0.11
(1,1513)	2:227:B:ILE:HD13	2:224:B:LYS:H	8	0.11
(1,1491)	1:35:A:VAL:HB	1:9:A:GLU:H	4	0.11
(1,1488)	1:33:A:MET:HB3	1:33:A:MET:H	9	0.11
(1,1478)	2:234:B:ARG:HB2	2:235:B:SER:H	3	0.11
(1,1478)	2:234:B:ARG:HB2	2:235:B:SER:H	18	0.11
(1,1465)	1:44:A:GLU:HB2	1:45:A:ASP:H	3	0.11
(1,1465)	1:44:A:GLU:HB3	1:45:A:ASP:H	3	0.11
(1,1465)	1:44:A:GLU:HB2	1:45:A:ASP:H	11	0.11
(1,1465)	1:44:A:GLU:HB3	1:45:A:ASP:H	11	0.11
(1,1463)	2:191:B:GLU:HB2	2:195:B:ASN:H	7	0.11
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	6	0.11
(1,1395)	1:45:A:ASP:HB3	1:45:A:ASP:H	13	0.11
(1,1345)	1:33:A:MET:HA	1:33:A:MET:H	3	0.11
(1,1345)	1:33:A:MET:HA	1:33:A:MET:H	7	0.11
(1,1327)	2:179:B:LEU:HA	2:180:B:CYS:H	2	0.11
(1,1327)	2:179:B:LEU:HA	2:180:B:CYS:H	8	0.11
(1,1299)	2:246:B:TYR:HE2	1:21:A:GLU:H	13	0.11
(1,1187)	2:156:B:LEU:HD21	2:163:B:PHE:H	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1158)	2:143:B:ILE:HG23	2:143:B:ILE:H	13	0.11
(1,1158)	2:143:B:ILE:HG22	2:143:B:ILE:H	14	0.11
(1,1156)	2:143:B:ILE:HG12	2:143:B:ILE:H	15	0.11
(1,1152)	2:161:B:ILE:HG21	2:225:B:TYR:H	14	0.11
(1,1078)	2:224:B:LYS:HB3	2:225:B:TYR:H	7	0.11
(1,1037)	2:184:B:ALA:HB3	2:183:B:LEU:H	19	0.11
(1,1018)	2:207:B:GLU:HG2	2:211:B:LYS:H	20	0.11
(1,942)	2:246:B:TYR:HB2	2:246:B:TYR:H	12	0.11
(1,942)	2:246:B:TYR:HB2	2:246:B:TYR:H	14	0.11
(1,871)	2:249:B:MET:HA	2:249:B:MET:H	6	0.11
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	5	0.11
(1,785)	2:163:B:PHE:HZ	2:154:B:LYS:H	19	0.11
(1,672)	2:156:B:LEU:HD13	2:155:B:LYS:H	6	0.11
(1,672)	2:156:B:LEU:HD11	2:155:B:LYS:H	8	0.11
(1,672)	2:156:B:LEU:HD11	2:155:B:LYS:H	14	0.11
(1,638)	1:10:A:ILE:HG23	1:14:A:LYS:H	16	0.11
(1,638)	1:10:A:ILE:HG21	1:14:A:LYS:H	19	0.11
(1,629)	2:231:B:LEU:HD12	2:230:B:CYS:H	3	0.11
(1,621)	1:25:A:LEU:HD12	1:25:A:LEU:H	13	0.11
(1,621)	1:25:A:LEU:HD13	1:25:A:LEU:H	14	0.11
(1,593)	2:154:B:LYS:HG2	2:151:B:GLU:H	18	0.11
(1,582)	1:10:A:ILE:HG12	1:35:A:VAL:H	6	0.11
(1,578)	2:207:B:GLU:HB3	2:208:B:LEU:H	11	0.11
(1,571)	2:234:B:ARG:HG2	2:233:B:PHE:H	3	0.11
(1,571)	2:234:B:ARG:HG2	2:233:B:PHE:H	13	0.11
(1,571)	2:234:B:ARG:HG2	2:233:B:PHE:H	14	0.11
(1,555)	2:193:B:MET:HB3	2:194:B:TYR:H	11	0.11
(1,538)	1:11:A:GLN:HG3	1:14:A:LYS:H	2	0.11
(1,538)	1:11:A:GLN:HG3	1:14:A:LYS:H	9	0.11
(1,501)	2:206:B:ASN:HB2	2:207:B:GLU:H	8	0.11
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	2	0.11
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	5	0.11
(1,494)	2:230:B:CYS:HB3	2:233:B:PHE:H	14	0.11
(1,457)	2:171:B:PRO:HA	2:170:B:VAL:H	13	0.11
(1,436)	2:251:B:GLU:HA	2:251:B:GLU:H	1	0.11
(1,436)	2:251:B:GLU:HA	2:251:B:GLU:H	2	0.11
(1,436)	2:251:B:GLU:HA	2:251:B:GLU:H	4	0.11
(1,436)	2:251:B:GLU:HA	2:251:B:GLU:H	12	0.11
(1,347)	2:200:B:ASN:HD21	2:197:B:LEU:H	9	0.11
(1,245)	1:11:A:GLN:HG3	1:15:A:ALA:H	1	0.11
(1,177)	1:7:A:ILE:HD11	1:30:A:ARG:H	19	0.11
(1,172)	1:35:A:VAL:HG13	2:146:B:ARG:H	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,172)	1:35:A:VAL:HG11	2:146:B:ARG:H	11	0.11
(1,168)	2:143:B:ILE:HG12	2:144:B:GLU:H	2	0.11
(1,168)	2:143:B:ILE:HG12	2:144:B:GLU:H	14	0.11
(1,81)	1:14:A:LYS:H	1:29:A:ARG:H	1	0.11
(1,22)	1:26:A:ILE:HG23	1:47:A:TYR:H	6	0.11
(1,6228)	2:237:B:LEU:HB2	1:8:A:TYR:HE1	12	0.1
(1,6207)	1:5:A:GLY:H	2:243:B:TYR:HE1	13	0.1
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE2	4	0.1
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE1	9	0.1
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE1	10	0.1
(1,6189)	2:171:B:PRO:HG3	2:225:B:TYR:HE2	14	0.1
(1,6176)	2:230:B:CYS:HB2	2:194:B:TYR:HE2	5	0.1
(1,6091)	2:197:B:LEU:HG	2:159:B:PHE:HE1	5	0.1
(1,6091)	2:197:B:LEU:HG	2:159:B:PHE:HE1	12	0.1
(1,6091)	2:197:B:LEU:HG	2:159:B:PHE:HE2	18	0.1
(1,5981)	2:247:B:TYR:H	2:247:B:TYR:HD1	6	0.1
(1,5966)	2:176:B:SER:HA	2:173:B:HIS:HE1	13	0.1
(1,5918)	2:170:B:VAL:H	1:49:A:VAL:HG11	6	0.1
(1,5918)	2:170:B:VAL:H	1:49:A:VAL:HG12	6	0.1
(1,5918)	2:170:B:VAL:H	1:49:A:VAL:HG13	6	0.1
(1,5902)	1:46:A:ILE:HG12	1:19:A:THR:HG22	18	0.1
(1,5877)	2:237:B:LEU:HB2	2:236:B:ASN:HA	13	0.1
(1,5864)	2:187:B:LEU:HA	2:186:B:MET:HG3	12	0.1
(1,5759)	2:189:B:GLU:HG2	2:188:B:ALA:HA	1	0.1
(1,5759)	2:189:B:GLU:HG2	2:188:B:ALA:HA	8	0.1
(1,5661)	2:208:B:LEU:HG	2:203:B:ILE:HG21	17	0.1
(1,5621)	2:185:B:LYS:HE2	2:181:B:ILE:HG21	13	0.1
(1,5565)	2:204:B:PRO:HD2	2:196:B:ALA:HB3	5	0.1
(1,5471)	2:143:B:ILE:H	2:143:B:ILE:HG21	9	0.1
(1,5429)	2:185:B:LYS:H	2:186:B:MET:HE2	19	0.1
(1,5297)	2:230:B:CYS:HB2	2:231:B:LEU:HD13	11	0.1
(1,5190)	1:24:A:PHE:HD2	2:170:B:VAL:HG23	8	0.1
(1,4943)	2:182:B:ARG:HD2	2:248:B:THR:HG22	4	0.1
(1,4892)	2:211:B:LYS:HA	2:210:B:LYS:HG3	6	0.1
(1,4892)	2:211:B:LYS:HA	2:210:B:LYS:HG3	7	0.1
(1,4713)	2:144:B:GLU:H	2:239:B:LEU:HD21	4	0.1
(1,4604)	2:194:B:TYR:HB3	2:187:B:LEU:HD13	8	0.1
(1,4418)	2:233:B:PHE:HE1	2:185:B:LYS:HD2	6	0.1
(1,4340)	2:197:B:LEU:H	2:197:B:LEU:HD13	3	0.1
(1,4296)	1:15:A:ALA:H	1:14:A:LYS:HD3	3	0.1
(1,4236)	2:245:B:GLU:HG2	2:241:B:LYS:HD2	18	0.1
(1,4235)	2:151:B:GLU:HG2	2:154:B:LYS:HD2	19	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4095)	2:158:B:GLU:H	2:158:B:GLU:HB3	19	0.1
(1,4043)	2:191:B:GLU:H	2:191:B:GLU:HB3	17	0.1
(1,3929)	2:228:B:ALA:HA	2:155:B:LYS:HB3	7	0.1
(1,3800)	2:185:B:LYS:HG3	2:245:B:GLU:HG3	3	0.1
(1,3747)	2:154:B:LYS:HD2	2:151:B:GLU:HG2	19	0.1
(1,3725)	2:151:B:GLU:HB2	2:236:B:ASN:HB2	3	0.1
(1,3697)	2:207:B:GLU:HA	2:207:B:GLU:HG3	10	0.1
(1,3586)	1:45:A:ASP:H	1:44:A:GLU:HG3	10	0.1
(1,3439)	2:142:B:ASP:HB2	2:143:B:ILE:HB	9	0.1
(1,3103)	1:14:A:LYS:HB2	1:15:A:ALA:HA	3	0.1
(1,3103)	1:14:A:LYS:HB2	1:15:A:ALA:HA	12	0.1
(1,3103)	1:14:A:LYS:HB2	1:15:A:ALA:HA	16	0.1
(1,3087)	2:143:B:ILE:HG21	2:145:B:ALA:HA	9	0.1
(1,3065)	2:146:B:ARG:HB2	2:145:B:ALA:HA	6	0.1
(1,2889)	2:186:B:MET:HB3	2:183:B:LEU:HA	3	0.1
(1,2819)	2:169:B:ASN:HD21	2:165:B:ASP:HA	10	0.1
(1,2614)	2:217:B:ARG:HD2	2:217:B:ARG:HA	14	0.1
(1,2591)	2:246:B:TYR:HA	2:245:B:GLU:HA	15	0.1
(1,2582)	2:178:B:GLN:HE22	2:178:B:GLN:HA	2	0.1
(1,2466)	2:234:B:ARG:HG3	2:233:B:PHE:HA	1	0.1
(1,2329)	2:226:B:ILE:HD11	2:218:B:THR:HA	3	0.1
(1,2329)	2:226:B:ILE:HD11	2:218:B:THR:HA	5	0.1
(1,2278)	2:182:B:ARG:HG3	2:180:B:CYS:HA	2	0.1
(1,2196)	2:143:B:ILE:HA	1:6:A:ILE:HD13	9	0.1
(1,2187)	2:143:B:ILE:HA	2:143:B:ILE:HD12	4	0.1
(1,2184)	2:152:B:LEU:HA	2:149:B:ILE:HA	19	0.1
(1,2150)	1:38:A:GLN:HE22	1:6:A:ILE:HD11	2	0.1
(1,2150)	1:38:A:GLN:HE22	1:6:A:ILE:HD12	2	0.1
(1,2150)	1:38:A:GLN:HE22	1:6:A:ILE:HD13	2	0.1
(1,2150)	1:38:A:GLN:HE22	1:6:A:ILE:HD11	20	0.1
(1,2150)	1:38:A:GLN:HE22	1:6:A:ILE:HD12	20	0.1
(1,2150)	1:38:A:GLN:HE22	1:6:A:ILE:HD13	20	0.1
(1,2059)	1:8:A:TYR:H	1:10:A:ILE:HD13	20	0.1
(1,2051)	2:217:B:ARG:HB3	2:221:B:ASN:H	19	0.1
(1,2044)	2:241:B:LYS:HE2	2:237:B:LEU:H	15	0.1
(1,2044)	2:241:B:LYS:HE3	2:237:B:LEU:H	15	0.1
(1,2043)	2:209:B:LYS:HB2	2:209:B:LYS:H	4	0.1
(1,2016)	1:25:A:LEU:HD11	1:3:A:ARG:HE	20	0.1
(1,2016)	1:25:A:LEU:HD12	1:3:A:ARG:HE	20	0.1
(1,2016)	1:25:A:LEU:HD13	1:3:A:ARG:HE	20	0.1
(1,1992)	2:166:B:LEU:HB2	2:170:B:VAL:H	8	0.1
(1,1990)	2:193:B:MET:HB3	2:193:B:MET:H	15	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1965)	2:219:B:ILE:HG21	2:220:B:GLY:H	1	0.1
(1,1692)	1:17:A:VAL:HB	1:19:A:THR:H	1	0.1
(1,1692)	1:17:A:VAL:HB	1:19:A:THR:H	5	0.1
(1,1691)	1:21:A:GLU:HB2	1:19:A:THR:H	15	0.1
(1,1543)	1:17:A:VAL:HG12	1:9:A:GLU:H	17	0.1
(1,1491)	1:35:A:VAL:HB	1:9:A:GLU:H	7	0.1
(1,1489)	1:31:A:LYS:HG2	1:33:A:MET:H	8	0.1
(1,1428)	2:192:B:GLN:HB3	2:195:B:ASN:H	9	0.1
(1,1345)	1:33:A:MET:HA	1:33:A:MET:H	14	0.1
(1,1345)	1:33:A:MET:HA	1:33:A:MET:H	18	0.1
(1,1293)	2:163:B:PHE:HD2	1:9:A:GLU:H	8	0.1
(1,1158)	2:143:B:ILE:HG21	2:143:B:ILE:H	9	0.1
(1,1118)	1:27:A:ILE:HG13	1:27:A:ILE:H	4	0.1
(1,1062)	2:152:B:LEU:HB3	2:151:B:GLU:H	5	0.1
(1,1042)	2:164:B:LEU:HB2	2:163:B:PHE:H	18	0.1
(1,957)	2:199:B:LYS:HE3	2:199:B:LYS:H	18	0.1
(1,942)	2:246:B:TYR:HB2	2:246:B:TYR:H	11	0.1
(1,871)	2:249:B:MET:HA	2:249:B:MET:H	8	0.1
(1,871)	2:249:B:MET:HA	2:249:B:MET:H	13	0.1
(1,871)	2:249:B:MET:HA	2:249:B:MET:H	17	0.1
(1,629)	2:231:B:LEU:HD13	2:230:B:CYS:H	19	0.1
(1,601)	2:179:B:LEU:HG	2:179:B:LEU:H	10	0.1
(1,601)	2:179:B:LEU:HG	2:179:B:LEU:H	20	0.1
(1,582)	1:10:A:ILE:HG12	1:35:A:VAL:H	17	0.1
(1,571)	2:234:B:ARG:HG2	2:233:B:PHE:H	4	0.1
(1,571)	2:234:B:ARG:HG2	2:233:B:PHE:H	5	0.1
(1,555)	2:193:B:MET:HB3	2:194:B:TYR:H	2	0.1
(1,542)	1:2:A:ASN:HB2	1:3:A:ARG:H	3	0.1
(1,542)	1:2:A:ASN:HB3	1:3:A:ARG:H	3	0.1
(1,532)	2:141:B:GLU:HB2	2:142:B:ASP:H	14	0.1
(1,522)	1:42:A:GLU:HG3	1:43:A:ASN:H	14	0.1
(1,508)	2:238:B:ASN:HB3	2:238:B:ASN:H	14	0.1
(1,436)	2:251:B:GLU:HA	2:251:B:GLU:H	5	0.1
(1,344)	2:143:B:ILE:H	2:142:B:ASP:H	5	0.1
(1,273)	1:49:A:VAL:HG11	1:50:A:ARG:H	11	0.1

10 Dihedral-angle violation analysis

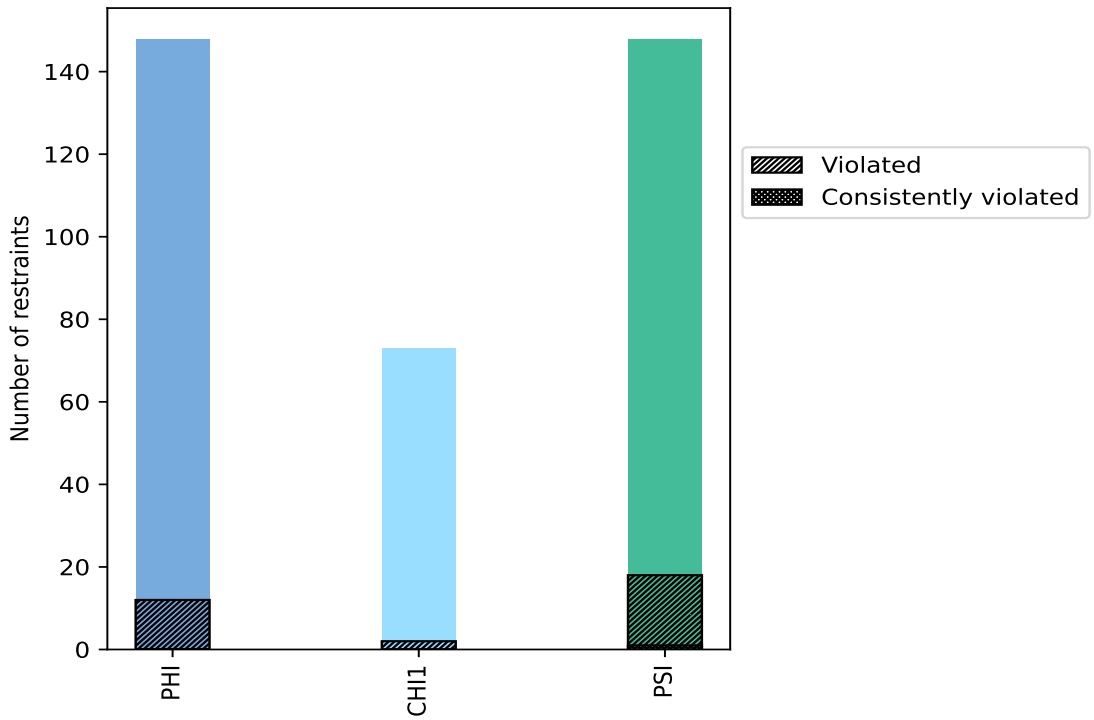
10.1 Summary of dihedral-angle violations

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]
PHI	148	40.1	12	8.1	3.3	0	0.0	0.0
CHI1	73	19.8	2	2.7	0.5	0	0.0	0.0
PSI	148	40.1	18	12.2	4.9	1	0.7	0.3
Total	369	100.0	32	8.7	8.7	1	0.3	0.3

[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



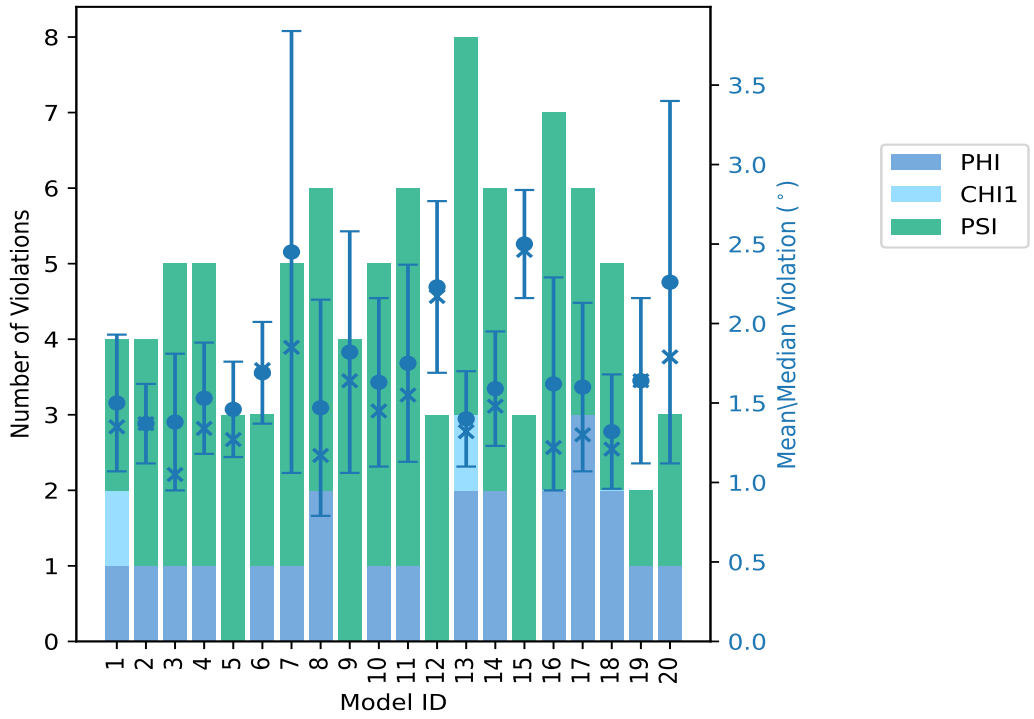
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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 (°)
	PHI	CHI1	PSI	Total				
1	1	1	2	4	1.5	2.19	0.43	1.35
2	1	0	3	4	1.37	1.64	0.25	1.37
3	1	0	4	5	1.38	1.97	0.43	1.05
4	1	0	4	5	1.53	2.03	0.35	1.34
5	0	0	3	3	1.46	1.88	0.3	1.27
6	1	0	2	3	1.69	2.07	0.32	1.71
7	1	0	4	5	2.45	4.57	1.39	1.85
8	2	0	4	6	1.47	2.95	0.68	1.17
9	0	0	4	4	1.82	2.92	0.76	1.64
10	1	0	4	5	1.63	2.44	0.53	1.45
11	1	0	5	6	1.75	3.05	0.62	1.55
12	0	0	3	3	2.23	2.93	0.54	2.17
13	2	1	5	8	1.4	2.0	0.3	1.32
14	2	0	4	6	1.59	2.11	0.36	1.48
15	0	0	3	3	2.5	2.93	0.34	2.46
16	2	0	5	7	1.62	3.0	0.67	1.22
17	3	0	3	6	1.6	2.42	0.53	1.3
18	2	0	3	5	1.32	1.99	0.36	1.21
19	1	0	1	2	1.64	2.16	0.52	1.64
20	1	0	2	3	2.26	3.84	1.14	1.79

10.2.1 Bar graph : Dihedral violation statistics for each model



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

10.3 Dihedral-angle violation statistics for the ensemble

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

Number of violated restraints				Fraction of the ensemble	
PHI	CHI1	PSI	Total	Count[1]	%
5	2	9	16	1	5.0
4	0	2	6	2	10.0
2	0	3	5	3	15.0
1	0	2	3	4	20.0
0	0	0	0	5	25.0
0	0	0	0	6	30.0
0	0	0	0	7	35.0
0	0	0	0	8	40.0
0	0	0	0	9	45.0
0	0	0	0	10	50.0
0	0	0	0	11	55.0

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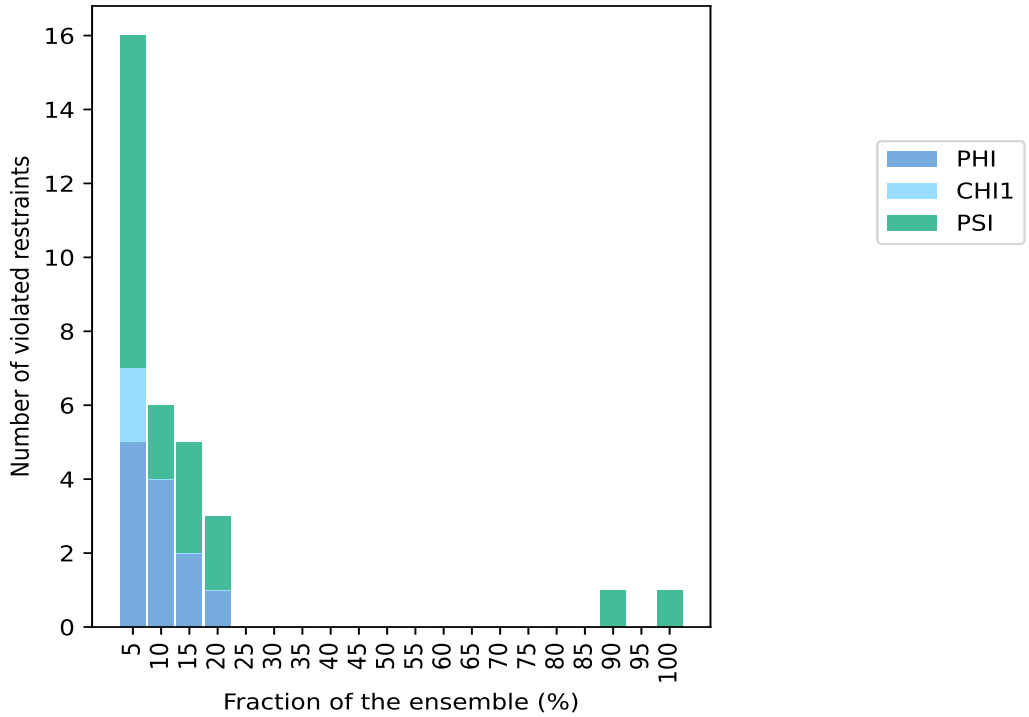
Number of violated restraints				Fraction of the ensemble	
PHI	CHI1	PSI	Total	Count[1]	%
0	0	0	0	12	60.0
0	0	0	0	13	65.0
0	0	0	0	14	70.0
0	0	0	0	15	75.0
0	0	0	0	16	80.0
0	0	0	0	17	85.0
0	0	1	1	18	90.0
0	0	0	0	19	95.0
0	0	1	1	20	100.0

[1] Number of models with violations

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

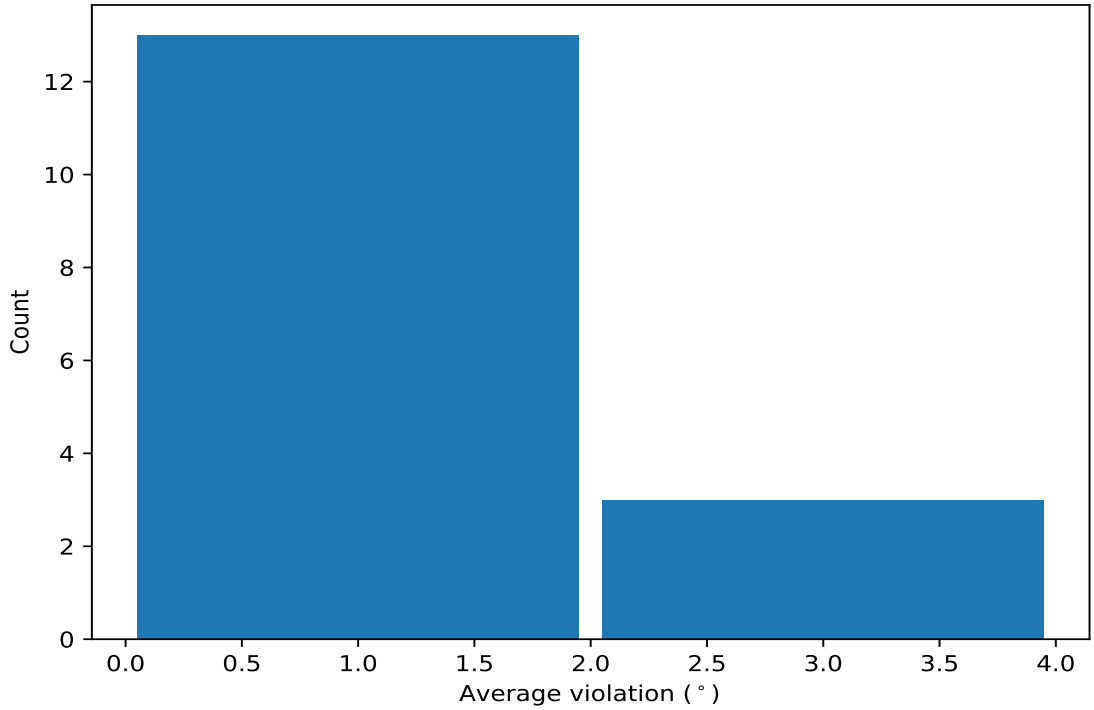


10.4 Most violated dihedral-angle restraints in the ensemble

10.4.1 Histogram : Distribution of mean dihedral-angle violations

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

in the ensemble



10.4.2 Table: Most violated dihedral-angle restraints

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.

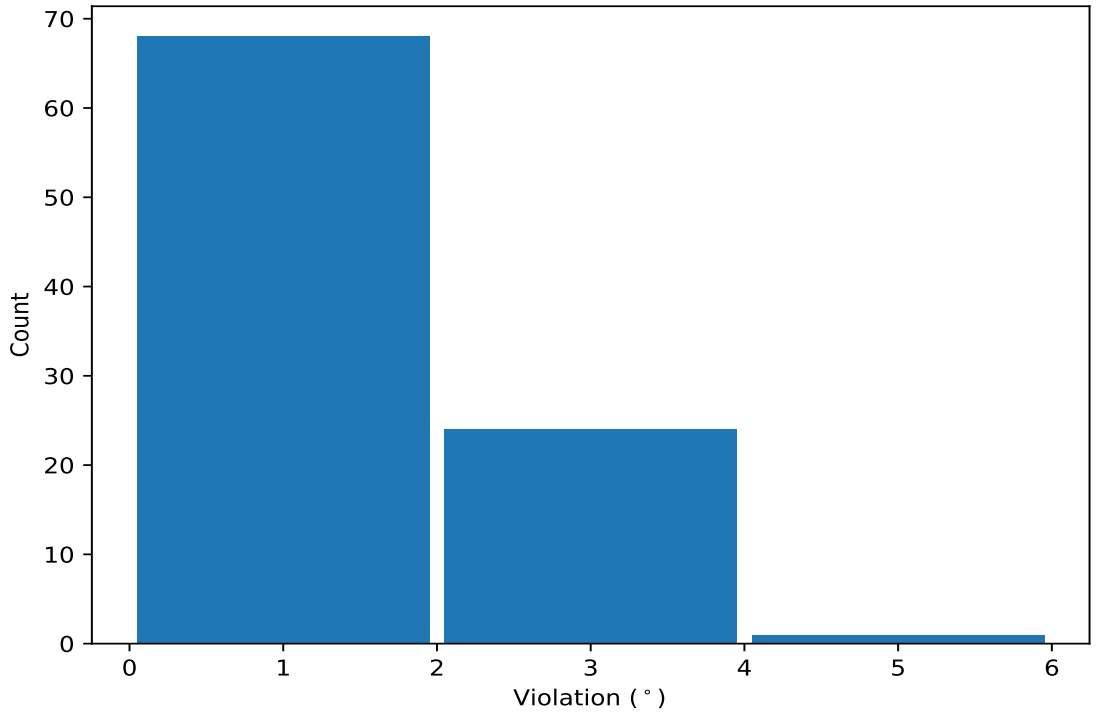
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	20	2.26	0.71	2.08
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	18	2.1	0.44	2.05
(1,58)	1:32:A:ASP:N	1:32:A:ASP:CA	1:32:A:ASP:C	1:33:A:MET:N	4	1.36	0.44	1.15
(1,61)	1:33:A:MET:C	1:34:A:LYS:N	1:34:A:LYS:CA	1:34:A:LYS:C	4	1.31	0.17	1.37
(1,102)	2:150:B:GLU:N	2:150:B:GLU:CA	2:150:B:GLU:C	2:151:B:GLU:N	4	1.12	0.17	1.03
(1,231)	2:214:B:VAL:C	2:215:B:HIS:N	2:215:B:HIS:CA	2:215:B:HIS:C	3	1.41	0.27	1.23
(1,1)	1:1:A:MET:C	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	3	1.26	0.2	1.13
(1,180)	2:189:B:GLU:N	2:189:B:GLU:CA	2:189:B:GLU:C	2:190:B:ASP:N	3	1.2	0.18	1.1
(1,32)	1:18:A:LEU:N	1:18:A:LEU:CA	1:18:A:LEU:C	1:19:A:THR:N	3	1.19	0.07	1.18
(1,18)	1:11:A:GLN:N	1:11:A:GLN:CA	1:11:A:GLN:C	1:12:A:GLY:N	3	1.17	0.04	1.15
(1,296)	2:256:B:HIS:N	2:256:B:HIS:CA	2:256:B:HIS:C	2:257:B:HIS:N	2	3.08	1.48	3.08
(1,239)	2:219:B:ILE:C	2:220:B:GLY:N	2:220:B:GLY:CA	2:220:B:GLY:C	2	1.42	0.06	1.42
(1,91)	2:144:B:GLU:C	2:145:B:ALA:N	2:145:B:ALA:CA	2:145:B:ALA:C	2	1.28	0.01	1.28
(1,174)	2:186:B:MET:N	2:186:B:MET:CA	2:186:B:MET:C	2:187:B:LEU:N	2	1.21	0.06	1.21
(1,271)	2:237:B:LEU:C	2:238:B:ASN:N	2:238:B:ASN:CA	2:238:B:ASN:C	2	1.16	0.13	1.16
(1,75)	1:40:A:SER:C	1:41:A:PHE:N	1:41:A:PHE:CA	1:41:A:PHE:C	2	1.12	0.01	1.12

[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 (°)
(1,296)	2:256:B:HIS:N	2:256:B:HIS:CA	2:256:B:HIS:C	2:257:B:HIS:N	7	4.57
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	20	3.84
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	7	3.57
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	11	3.05
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	16	3.0
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	8	2.95
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	12	2.93
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	15	2.93
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	9	2.92
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	15	2.46
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	10	2.44
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	17	2.42
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	17	2.26
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	16	2.22

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	1	2.19
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	12	2.17
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	19	2.16
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	9	2.12
(1,58)	1:32:A:ASP:N	1:32:A:ASP:CA	1:32:A:ASP:C	1:33:A:MET:N	15	2.11
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	14	2.11
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	6	2.07
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	14	2.04
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	10	2.04
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	4	2.03
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	13	2.0
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	18	1.99
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	3	1.97
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	5	1.88
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	4	1.86
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	3	1.85
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	7	1.85
(1,248)	2:224:B:LYS:N	2:224:B:LYS:CA	2:224:B:LYS:C	2:225:B:TYR:N	11	1.79
(1,231)	2:214:B:VAL:C	2:215:B:HIS:N	2:215:B:HIS:CA	2:215:B:HIS:C	20	1.79
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	6	1.71
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	13	1.71
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	11	1.69
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	2	1.64
(1,296)	2:256:B:HIS:N	2:256:B:HIS:CA	2:256:B:HIS:C	2:257:B:HIS:N	12	1.6
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	2	1.6
(1,1)	1:1:A:MET:C	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	16	1.54
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	1	1.53
(1,239)	2:219:B:ILE:C	2:220:B:GLY:N	2:220:B:GLY:CA	2:220:B:GLY:C	14	1.49
(1,180)	2:189:B:GLU:N	2:189:B:GLU:CA	2:189:B:GLU:C	2:190:B:ASP:N	8	1.46
(1,61)	1:33:A:MET:C	1:34:A:LYS:N	1:34:A:LYS:CA	1:34:A:LYS:C	14	1.46
(1,61)	1:33:A:MET:C	1:34:A:LYS:N	1:34:A:LYS:CA	1:34:A:LYS:C	10	1.45
(1,149)	2:173:B:HIS:C	2:174:B:ARG:N	2:174:B:ARG:CA	2:174:B:ARG:C	13	1.41
(1,102)	2:150:B:GLU:N	2:150:B:GLU:CA	2:150:B:GLU:C	2:151:B:GLU:N	11	1.41
(1,150)	2:174:B:ARG:N	2:174:B:ARG:CA	2:174:B:ARG:C	2:175:B:ASP:N	13	1.37
(1,239)	2:219:B:ILE:C	2:220:B:GLY:N	2:220:B:GLY:CA	2:220:B:GLY:C	17	1.36
(1,42)	1:24:A:PHE:N	1:24:A:PHE:CA	1:24:A:PHE:C	1:25:A:LEU:N	18	1.35
(1,24)	1:14:A:LYS:N	1:14:A:LYS:CA	1:14:A:LYS:C	1:15:A:ALA:N	4	1.34
(1,271)	2:237:B:LEU:C	2:238:B:ASN:N	2:238:B:ASN:CA	2:238:B:ASN:C	4	1.29
(1,91)	2:144:B:GLU:C	2:145:B:ALA:N	2:145:B:ALA:CA	2:145:B:ALA:C	8	1.29
(1,61)	1:33:A:MET:C	1:34:A:LYS:N	1:34:A:LYS:CA	1:34:A:LYS:C	6	1.29
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	5	1.27
(1,174)	2:186:B:MET:N	2:186:B:MET:CA	2:186:B:MET:C	2:187:B:LEU:N	11	1.27
(1,91)	2:144:B:GLU:C	2:145:B:ALA:N	2:145:B:ALA:CA	2:145:B:ALA:C	11	1.27
(1,32)	1:18:A:LEU:N	1:18:A:LEU:CA	1:18:A:LEU:C	1:19:A:THR:N	14	1.27
(1,242)	2:221:B:ASN:N	2:221:B:ASN:CA	2:221:B:ASN:C	2:222:B:ASN:N	13	1.26
(1,74)	1:40:A:SER:N	1:40:A:SER:CA	1:40:A:SER:C	1:41:A:PHE:N	13	1.26
(1,179)	2:188:B:ALA:C	2:189:B:GLU:N	2:189:B:GLU:CA	2:189:B:GLU:C	17	1.24
(1,231)	2:214:B:VAL:C	2:215:B:HIS:N	2:215:B:HIS:CA	2:215:B:HIS:C	7	1.23
(1,18)	1:11:A:GLN:N	1:11:A:GLN:CA	1:11:A:GLN:C	1:12:A:GLY:N	5	1.23
(1,70)	1:38:A:GLN:N	1:38:A:GLN:CA	1:38:A:GLN:C	1:39:A:VAL:N	16	1.22
(1,231)	2:214:B:VAL:C	2:215:B:HIS:N	2:215:B:HIS:CA	2:215:B:HIS:C	18	1.21

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,32)	1:18:A:LEU:N	1:18:A:LEU:CA	1:18:A:LEU:C	1:19:A:THR:N	16	1.18
(1,349)	2:202:B:ASN:N	2:202:B:ASN:CA	2:202:B:ASN:CB	2:202:B:ASN:CG	1	1.17
(1,120)	2:159:B:PHE:N	2:159:B:PHE:CA	2:159:B:PHE:C	2:160:B:GLY:N	20	1.16
(1,58)	1:32:A:ASP:N	1:32:A:ASP:CA	1:32:A:ASP:C	1:33:A:MET:N	14	1.16
(1,295)	2:255:B:HIS:C	2:256:B:HIS:N	2:256:B:HIS:CA	2:256:B:HIS:C	17	1.15
(1,174)	2:186:B:MET:N	2:186:B:MET:CA	2:186:B:MET:C	2:187:B:LEU:N	9	1.15
(1,58)	1:32:A:ASP:N	1:32:A:ASP:CA	1:32:A:ASP:C	1:33:A:MET:N	10	1.15
(1,18)	1:11:A:GLN:N	1:11:A:GLN:CA	1:11:A:GLN:C	1:12:A:GLY:N	17	1.15
(1,75)	1:40:A:SER:C	1:41:A:PHE:N	1:41:A:PHE:CA	1:41:A:PHE:C	2	1.14
(1,18)	1:11:A:GLN:N	1:11:A:GLN:CA	1:11:A:GLN:C	1:12:A:GLY:N	4	1.14
(1,1)	1:1:A:MET:C	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	19	1.13
(1,1)	1:1:A:MET:C	1:2:A:ASN:N	1:2:A:ASN:CA	1:2:A:ASN:C	1	1.12
(1,75)	1:40:A:SER:C	1:41:A:PHE:N	1:41:A:PHE:CA	1:41:A:PHE:C	16	1.11
(1,32)	1:18:A:LEU:N	1:18:A:LEU:CA	1:18:A:LEU:C	1:19:A:THR:N	2	1.11
(1,180)	2:189:B:GLU:N	2:189:B:GLU:CA	2:189:B:GLU:C	2:190:B:ASP:N	16	1.1
(1,357)	2:221:B:ASN:N	2:221:B:ASN:CA	2:221:B:ASN:CB	2:221:B:ASN:CG	13	1.08
(1,230)	2:214:B:VAL:N	2:214:B:VAL:CA	2:214:B:VAL:C	2:215:B:HIS:N	9	1.08
(1,229)	2:213:B:LYS:C	2:214:B:VAL:N	2:214:B:VAL:CA	2:214:B:VAL:C	13	1.07
(1,270)	2:235:B:SER:N	2:235:B:SER:CA	2:235:B:SER:C	2:236:B:ASN:N	8	1.05
(1,180)	2:189:B:GLU:N	2:189:B:GLU:CA	2:189:B:GLU:C	2:190:B:ASP:N	3	1.05
(1,102)	2:150:B:GLU:N	2:150:B:GLU:CA	2:150:B:GLU:C	2:151:B:GLU:N	10	1.05
(1,72)	1:39:A:VAL:N	1:39:A:VAL:CA	1:39:A:VAL:C	1:40:A:SER:N	8	1.04
(1,271)	2:237:B:LEU:C	2:238:B:ASN:N	2:238:B:ASN:CA	2:238:B:ASN:C	8	1.03
(1,61)	1:33:A:MET:C	1:34:A:LYS:N	1:34:A:LYS:CA	1:34:A:LYS:C	3	1.03
(1,241)	2:220:B:GLY:C	2:221:B:ASN:N	2:221:B:ASN:CA	2:221:B:ASN:C	18	1.02
(1,102)	2:150:B:GLU:N	2:150:B:GLU:CA	2:150:B:GLU:C	2:151:B:GLU:N	7	1.01
(1,58)	1:32:A:ASP:N	1:32:A:ASP:CA	1:32:A:ASP:C	1:33:A:MET:N	18	1.01
(1,102)	2:150:B:GLU:N	2:150:B:GLU:CA	2:150:B:GLU:C	2:151:B:GLU:N	3	1.0