Full wwPDB NMR Structure Validation Report (i)

Dec 25, 2024 – 12:40 PM EST

PDB ID	:	6L87
BMRB ID	:	27677
Title	:	Solution structure of the tandem PWWP-ARID domains of human RBBP1
Authors	:	Gong, W.B.; Perrett, S.; Feng, Y.G.
Deposited on	:	2019-11-05

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

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

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

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

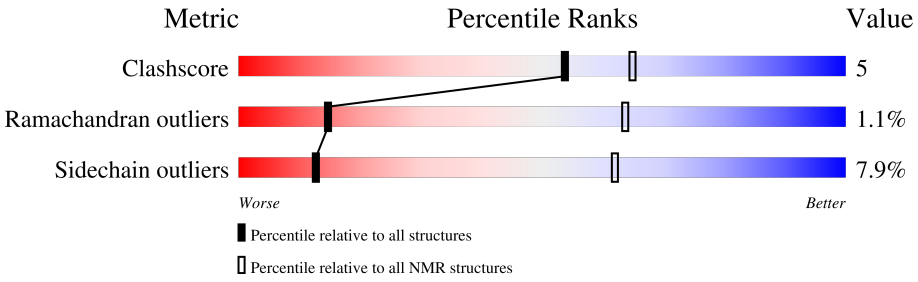
MolProbity	:	4.02b-467
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal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

1 Overall quality at a glance (i)

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

The overall completeness of chemical shifts assignment is 86%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	229	74% 12% 14%

2 Ensemble composition and analysis

This entry contains 20 models. Model 7 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:2-A:103, A:117-A:212 (198)	1.06	7

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

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

The models can be grouped into 4 clusters. No single-model clusters were found.

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

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 3730 atoms, of which 1856 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called AT-rich interactive domain-containing protein 4A.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	229	3730	1193	1856	320	354	7	0

There are 34 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	108	LYS	ASP	See sequence details	UNP P29374
A	110	LYS	GLU	See sequence details	UNP P29374
A	?	-	ASP	deletion	UNP P29374
A	?	-	GLY	deletion	UNP P29374
A	?	-	PRO	deletion	UNP P29374
A	?	-	ALA	deletion	UNP P29374
A	?	-	GLU	deletion	UNP P29374
A	?	-	GLU	deletion	UNP P29374
A	?	-	ASN	deletion	UNP P29374
A	?	-	ASP	deletion	UNP P29374
A	?	-	GLU	deletion	UNP P29374
A	?	-	GLU	deletion	UNP P29374
A	?	-	LYS	deletion	UNP P29374
A	?	-	GLU	deletion	UNP P29374
A	?	-	LYS	deletion	UNP P29374
A	?	-	GLU	deletion	UNP P29374
A	?	-	ALA	deletion	UNP P29374
A	?	-	LYS	deletion	UNP P29374
A	?	-	LYS	deletion	UNP P29374
A	?	-	THR	deletion	UNP P29374
A	?	-	GLU	deletion	UNP P29374
A	?	-	GLU	deletion	UNP P29374
A	?	-	GLU	deletion	UNP P29374
A	?	-	VAL	deletion	UNP P29374
A	?	-	PRO	deletion	UNP P29374
A	112	LYS	GLU	See sequence details	UNP P29374
A	222	LEU	-	expression tag	UNP P29374
A	223	GLU	-	expression tag	UNP P29374
A	224	HIS	-	expression tag	UNP P29374
A	225	HIS	-	expression tag	UNP P29374
A	226	HIS	-	expression tag	UNP P29374

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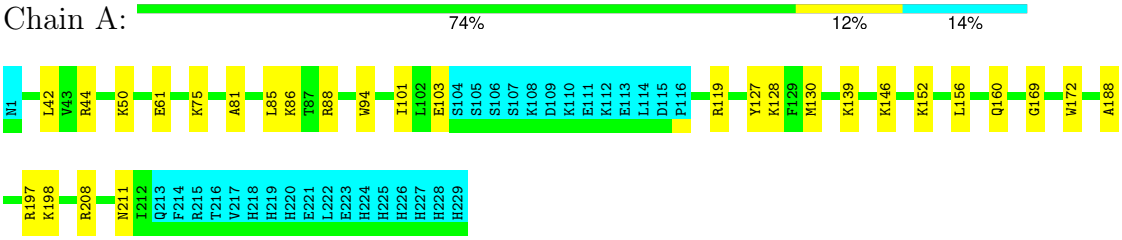
Chain	Residue	Modelled	Actual	Comment	Reference
A	227	HIS	-	expression tag	UNP P29374
A	228	HIS	-	expression tag	UNP P29374
A	229	HIS	-	expression tag	UNP P29374

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: AT-rich interactive domain-containing protein 4A

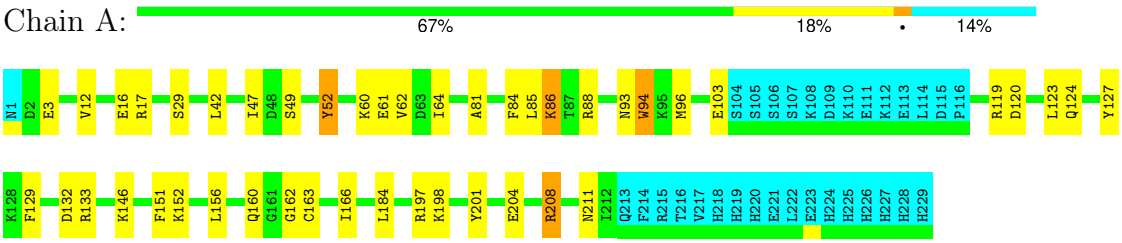


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

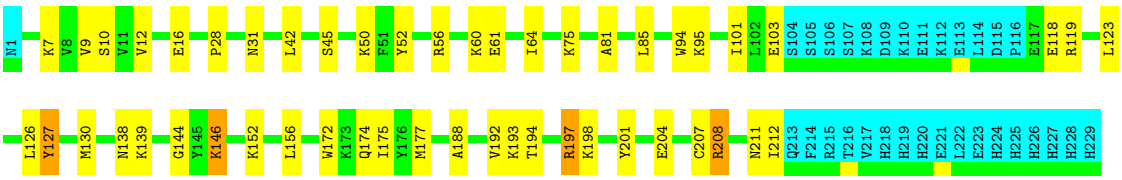
4.2.1 Score per residue for model 1

• Molecule 1: AT-rich interactive domain-containing protein 4A



4.2.2 Score per residue for model 2

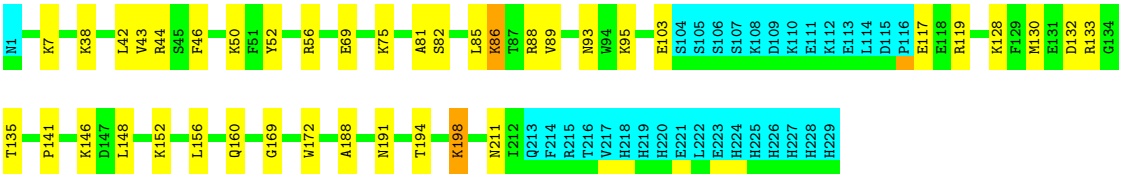
• Molecule 1: AT-rich interactive domain-containing protein 4A



4.2.3 Score per residue for model 3

• Molecule 1: AT-rich interactive domain-containing protein 4A

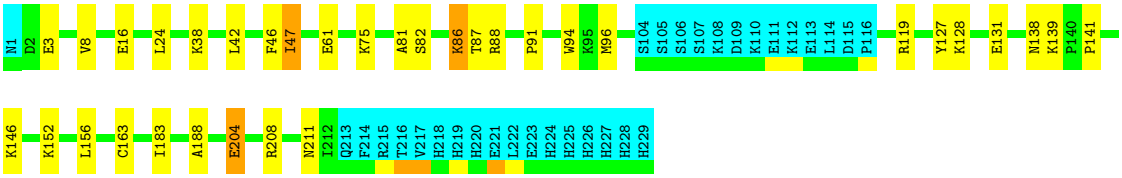
Chain A:



4.2.4 Score per residue for model 4

• Molecule 1: AT-rich interactive domain-containing protein 4A

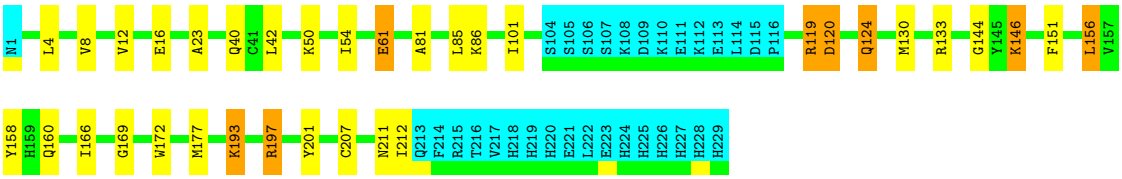
Chain A:



4.2.5 Score per residue for model 5

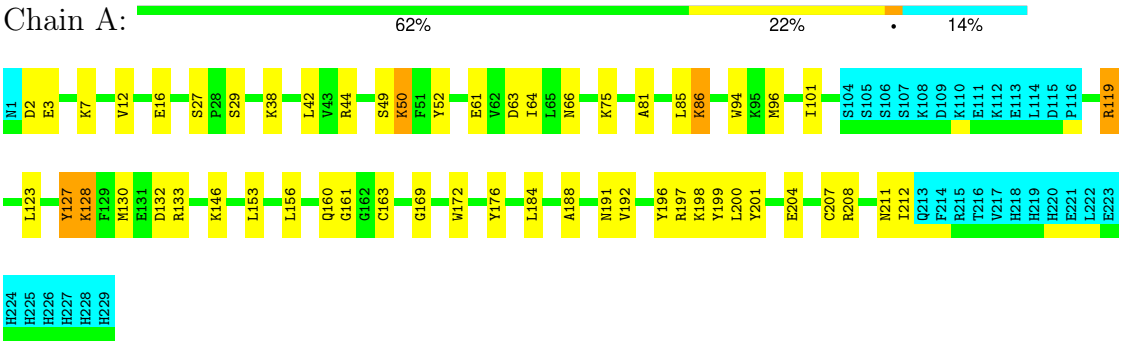
• Molecule 1: AT-rich interactive domain-containing protein 4A

Chain A:



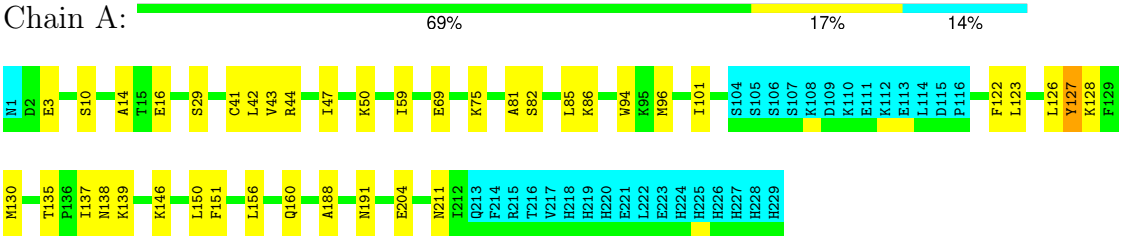
4.2.6 Score per residue for model 6

• Molecule 1: AT-rich interactive domain-containing protein 4A



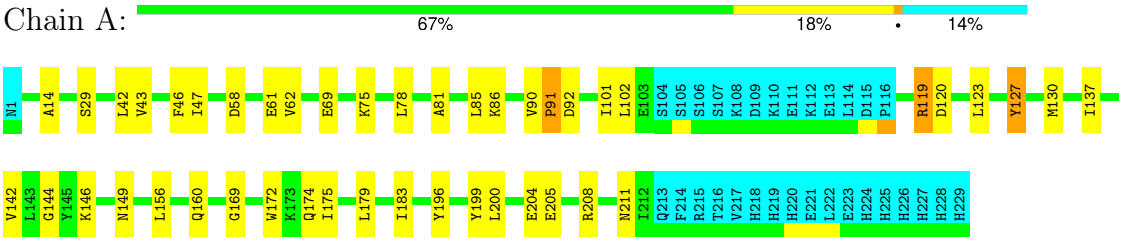
4.2.7 Score per residue for model 7 (medoid)

• Molecule 1: AT-rich interactive domain-containing protein 4A



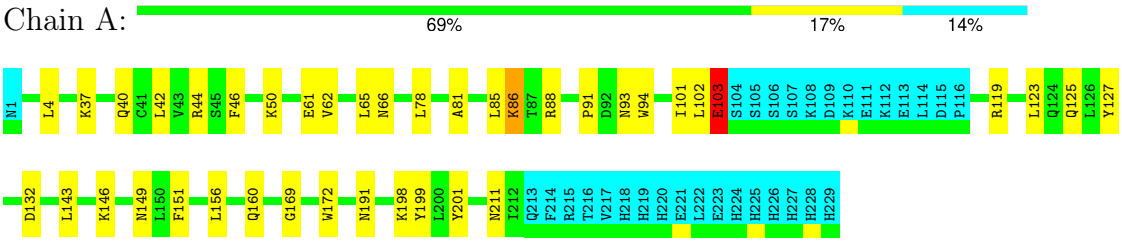
4.2.8 Score per residue for model 8

• Molecule 1: AT-rich interactive domain-containing protein 4A



4.2.9 Score per residue for model 9

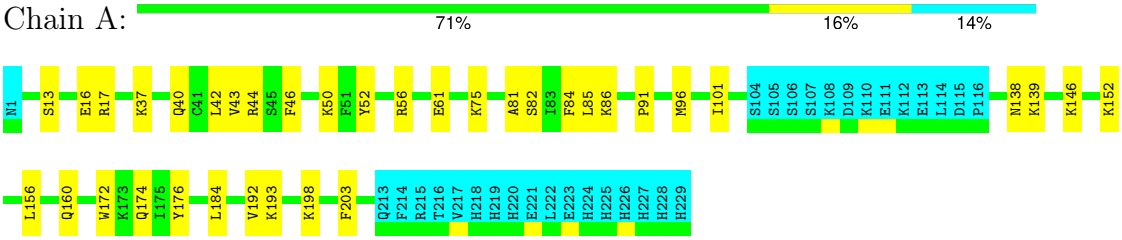
• Molecule 1: AT-rich interactive domain-containing protein 4A



4.2.10 Score per residue for model 10

• Molecule 1: AT-rich interactive domain-containing protein 4A

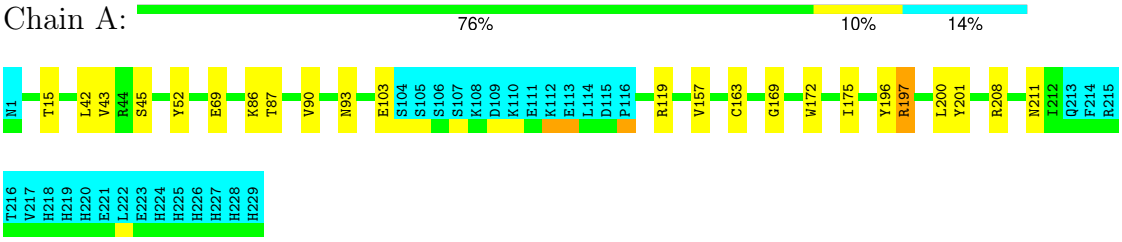
Chain A:



4.2.11 Score per residue for model 11

• Molecule 1: AT-rich interactive domain-containing protein 4A

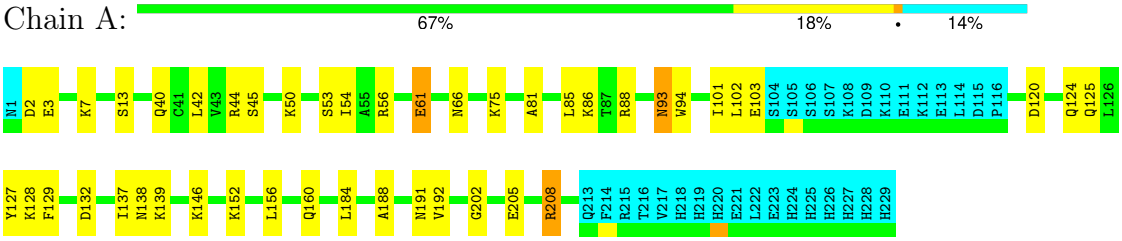
Chain A:



4.2.12 Score per residue for model 12

• Molecule 1: AT-rich interactive domain-containing protein 4A

Chain A:



4.2.13 Score per residue for model 13

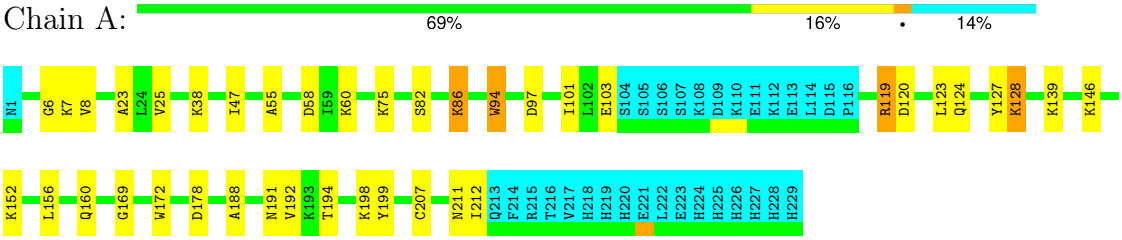
• Molecule 1: AT-rich interactive domain-containing protein 4A

Chain A:

4.2.14 Score per residue for model 14

• Molecule 1: AT-rich interactive domain-containing protein 4A

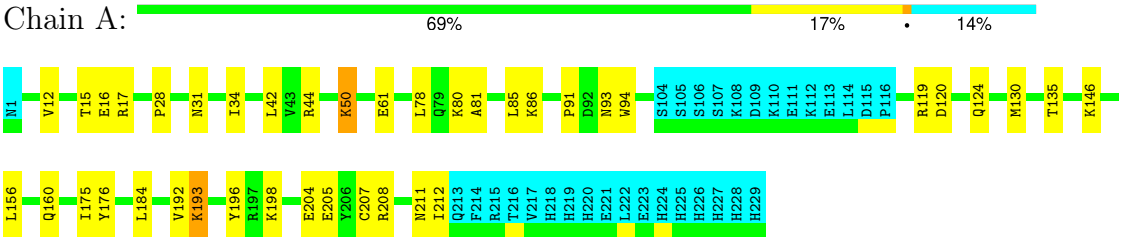
Chain A:



4.2.15 Score per residue for model 15

• Molecule 1: AT-rich interactive domain-containing protein 4A

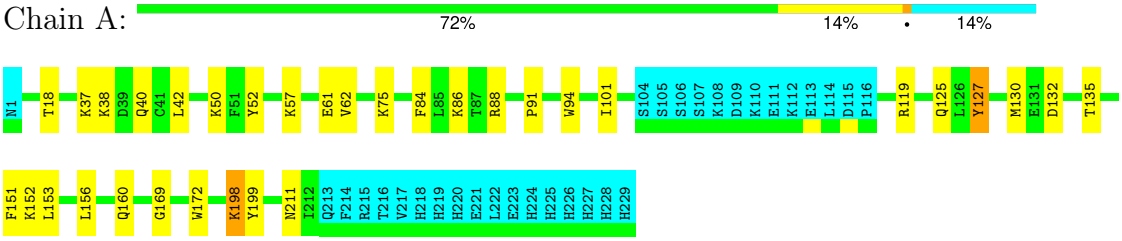
Chain A:



4.2.16 Score per residue for model 16

• Molecule 1: AT-rich interactive domain-containing protein 4A

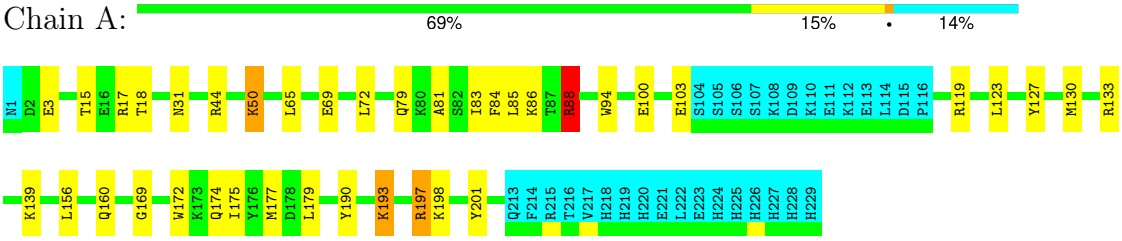
Chain A:



4.2.17 Score per residue for model 17

• Molecule 1: AT-rich interactive domain-containing protein 4A

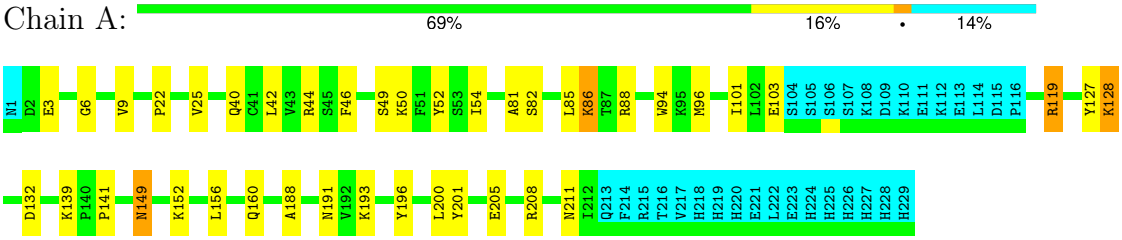
Chain A:



4.2.18 Score per residue for model 18

• Molecule 1: AT-rich interactive domain-containing protein 4A

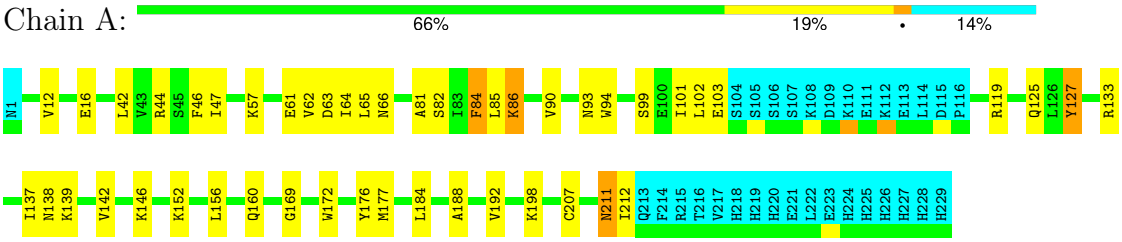
Chain A:



4.2.19 Score per residue for model 19

• Molecule 1: AT-rich interactive domain-containing protein 4A

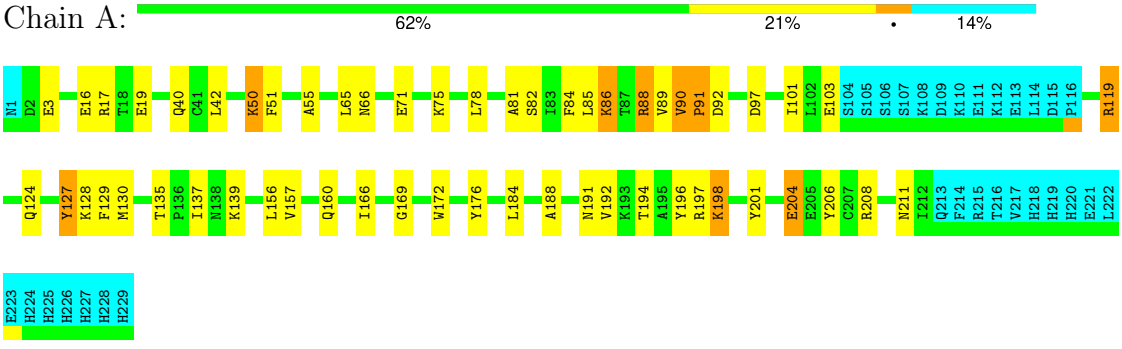
Chain A:



4.2.20 Score per residue for model 20

• Molecule 1: AT-rich interactive domain-containing protein 4A

Chain A:



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	
CYANA	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	2611
Number of shifts mapped to atoms	2611
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	86%

6 Model quality

6.1 Standard geometry

There are no covalent bond-length or bond-angle outliers.

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	0.9±0.8
All	All	0	18

There are no bond-length outliers.

There are no bond-angle outliers.

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	119	ARG	Sidechain	6
1	A	197	ARG	Sidechain	3
1	A	44	ARG	Sidechain	3
1	A	17	ARG	Sidechain	2
1	A	88	ARG	Sidechain	2
1	A	133	ARG	Sidechain	1
1	A	56	ARG	Sidechain	1

6.2 Too-close contacts

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	1604	1610	1609	16±4
All	All	32080	32200	32180	324

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 5.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:130:MET:SD	1:A:133:ARG:HD3	0.64	2.32	5	2
1:A:81:ALA:O	1:A:85:LEU:HG	0.62	1.93	19	15
1:A:169:GLY:HA2	1:A:172:TRP:CE3	0.61	2.30	5	12
1:A:156:LEU:O	1:A:160:GLN:HG2	0.61	1.96	17	15
1:A:204:GLU:O	1:A:208:ARG:HG2	0.60	1.96	6	2
1:A:46:PHE:CE1	1:A:81:ALA:HA	0.59	2.32	13	3
1:A:130:MET:HG3	1:A:135:THR:O	0.59	1.97	7	5
1:A:197:ARG:O	1:A:201:TYR:HB3	0.58	1.98	1	3
1:A:119:ARG:HG3	1:A:120:ASP:N	0.58	2.11	14	2
1:A:84:PHE:O	1:A:88:ARG:HG2	0.57	1.99	16	2
1:A:197:ARG:O	1:A:201:TYR:HB2	0.57	1.99	13	3
1:A:101:ILE:HG21	1:A:123:LEU:HB3	0.56	1.78	9	1
1:A:119:ARG:O	1:A:123:LEU:HG	0.56	2.00	1	4
1:A:152:LYS:O	1:A:156:LEU:HG	0.56	2.00	3	9
1:A:82:SER:O	1:A:86:LYS:HG3	0.56	2.01	10	9
1:A:101:ILE:HG23	1:A:127:TYR:CE2	0.55	2.37	7	4
1:A:188:ALA:O	1:A:192:VAL:HG23	0.55	2.02	14	3
1:A:188:ALA:HA	1:A:191:ASN:ND2	0.55	2.16	12	8
1:A:84:PHE:CE2	1:A:88:ARG:HD2	0.54	2.37	1	1
1:A:163:CYS:SG	1:A:204:GLU:HG3	0.54	2.42	1	1
1:A:193:LYS:O	1:A:197:ARG:HB2	0.54	2.03	2	2
1:A:44:ARG:HG3	1:A:50:LYS:O	0.53	2.02	7	5
1:A:10:SER:O	1:A:59:ILE:HA	0.53	2.03	13	2
1:A:90:VAL:HB	1:A:91:PRO:HD2	0.53	1.80	20	2
1:A:119:ARG:HA	1:A:151:PHE:CD1	0.53	2.38	1	1
1:A:130:MET:SD	1:A:199:TYR:HA	0.53	2.44	8	2
1:A:129:PHE:CE1	1:A:202:GLY:HA3	0.52	2.40	12	1
1:A:86:LYS:O	1:A:93:ASN:HB3	0.52	2.05	1	2
1:A:46:PHE:CE2	1:A:81:ALA:HA	0.52	2.40	18	3
1:A:172:TRP:CZ3	1:A:193:LYS:HA	0.52	2.40	10	1
1:A:198:LYS:HE3	1:A:199:TYR:CZ	0.51	2.40	14	1
1:A:196:TYR:CD1	1:A:200:LEU:HD12	0.51	2.40	8	1
1:A:127:TYR:CE1	1:A:137:ILE:HG13	0.51	2.39	12	1
1:A:101:ILE:HG23	1:A:127:TYR:CE1	0.51	2.41	12	6
1:A:127:TYR:CZ	1:A:137:ILE:HG21	0.51	2.40	7	1
1:A:204:GLU:O	1:A:208:ARG:HG3	0.50	2.06	2	3
1:A:99:SER:O	1:A:103:GLU:HA	0.50	2.06	19	1
1:A:46:PHE:HB2	1:A:84:PHE:CE1	0.50	2.41	19	2
1:A:64:ILE:HD12	1:A:64:ILE:H	0.50	1.66	2	3
1:A:123:LEU:O	1:A:127:TYR:HB2	0.50	2.06	7	1
1:A:96:MET:SD	1:A:101:ILE:HD11	0.50	2.46	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:101:ILE:HG23	1:A:127:TYR:CD1	0.49	2.42	16	3
1:A:122:PHE:O	1:A:126:LEU:HG	0.49	2.07	7	1
1:A:37:LYS:HD2	1:A:40:GLN:NE2	0.49	2.22	16	1
1:A:86:LYS:HD2	1:A:87:THR:N	0.48	2.22	4	1
1:A:198:LYS:HE2	1:A:199:TYR:CZ	0.48	2.42	9	1
1:A:6:GLY:HA2	1:A:25:VAL:O	0.48	2.08	18	2
1:A:119:ARG:HH11	1:A:119:ARG:HG3	0.48	1.69	18	1
1:A:176:TYR:CE2	1:A:188:ALA:HB1	0.48	2.44	19	1
1:A:120:ASP:O	1:A:124:GLN:HG2	0.48	2.09	15	1
1:A:193:LYS:HA	1:A:196:TYR:CE1	0.48	2.44	15	1
1:A:196:TYR:CD2	1:A:200:LEU:HD12	0.48	2.43	6	1
1:A:194:THR:O	1:A:198:LYS:HG2	0.48	2.09	20	3
1:A:120:ASP:O	1:A:124:GLN:HG3	0.47	2.09	12	1
1:A:176:TYR:CD2	1:A:192:VAL:HB	0.47	2.44	20	2
1:A:50:LYS:HE3	1:A:50:LYS:N	0.47	2.24	17	1
1:A:163:CYS:SG	1:A:208:ARG:HB3	0.47	2.49	11	1
1:A:196:TYR:HA	1:A:200:LEU:HD23	0.47	1.85	11	2
1:A:40:GLN:HG3	1:A:54:ILE:O	0.47	2.09	5	2
1:A:12:VAL:HB	1:A:16:GLU:O	0.47	2.10	2	3
1:A:205:GLU:OE2	1:A:208:ARG:HD3	0.47	2.09	15	1
1:A:71:GLU:OE2	1:A:75:LYS:HE2	0.47	2.10	20	1
1:A:96:MET:SD	1:A:128:LYS:HG2	0.47	2.49	4	1
1:A:87:THR:HA	1:A:93:ASN:O	0.47	2.10	11	1
1:A:44:ARG:NH2	1:A:132:ASP:HB2	0.47	2.25	18	1
1:A:88:ARG:O	1:A:94:TRP:HB3	0.47	2.09	18	1
1:A:101:ILE:HG23	1:A:127:TYR:CZ	0.47	2.45	18	1
1:A:90:VAL:HG21	1:A:93:ASN:HB2	0.47	1.87	19	1
1:A:84:PHE:HA	1:A:88:ARG:NH2	0.47	2.24	20	1
1:A:102:LEU:O	1:A:103:GLU:HB2	0.47	2.10	9	1
1:A:127:TYR:CE2	1:A:137:ILE:HG13	0.47	2.44	20	1
1:A:207:CYS:HA	1:A:212:ILE:HD12	0.46	1.88	14	4
1:A:88:ARG:HA	1:A:94:TRP:CD1	0.46	2.45	1	1
1:A:172:TRP:CE3	1:A:175:ILE:HD11	0.46	2.44	2	1
1:A:81:ALA:O	1:A:85:LEU:HD13	0.46	2.11	17	1
1:A:46:PHE:CZ	1:A:81:ALA:HA	0.46	2.45	9	2
1:A:156:LEU:HB3	1:A:175:ILE:HG22	0.46	1.86	8	3
1:A:141:PRO:HB2	1:A:148:LEU:O	0.46	2.11	3	1
1:A:31:ASN:ND2	1:A:34:ILE:HB	0.46	2.25	15	1
1:A:130:MET:HG2	1:A:135:THR:O	0.46	2.10	3	1
1:A:28:PRO:HA	1:A:31:ASN:OD1	0.46	2.11	15	2
1:A:12:VAL:HG13	1:A:16:GLU:O	0.46	2.10	6	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:37:LYS:HD3	1:A:40:GLN:NE2	0.46	2.27	9	1
1:A:91:PRO:HA	1:A:94:TRP:O	0.46	2.10	15	1
1:A:43:VAL:HB	1:A:52:TYR:CE1	0.45	2.46	3	1
1:A:41:CYS:SG	1:A:59:ILE:HD12	0.45	2.51	7	1
1:A:205:GLU:OE2	1:A:208:ARG:HD2	0.45	2.11	18	2
1:A:144:GLY:O	1:A:146:LYS:HD3	0.45	2.11	8	1
1:A:50:LYS:HD2	1:A:51:PHE:N	0.45	2.26	20	1
1:A:64:ILE:HG21	1:A:81:ALA:CB	0.45	2.42	1	1
1:A:55:ALA:HB3	1:A:58:ASP:OD2	0.45	2.11	14	1
1:A:10:SER:HB2	1:A:60:LYS:HB2	0.45	1.88	13	1
1:A:156:LEU:O	1:A:160:GLN:HG3	0.44	2.12	19	1
1:A:157:VAL:HG21	1:A:196:TYR:CE1	0.44	2.48	20	1
1:A:144:GLY:O	1:A:146:LYS:HD2	0.44	2.13	5	1
1:A:40:GLN:NE2	1:A:53:SER:HB2	0.44	2.28	12	1
1:A:127:TYR:O	1:A:131:GLU:HG3	0.44	2.13	13	1
1:A:89:VAL:O	1:A:90:VAL:HG22	0.44	2.12	20	1
1:A:176:TYR:CD1	1:A:192:VAL:HB	0.44	2.48	19	3
1:A:17:ARG:HD2	1:A:17:ARG:N	0.44	2.28	10	1
1:A:96:MET:HB3	1:A:124:GLN:OE1	0.44	2.13	1	1
1:A:188:ALA:O	1:A:192:VAL:HG12	0.44	2.13	2	1
1:A:96:MET:CE	1:A:128:LYS:HE2	0.44	2.42	18	1
1:A:45:SER:HB2	1:A:52:TYR:OH	0.43	2.12	2	2
1:A:183:ILE:O	1:A:188:ALA:HB2	0.43	2.13	4	1
1:A:9:VAL:O	1:A:22:PRO:HA	0.43	2.14	18	1
1:A:128:LYS:HD3	1:A:129:PHE:N	0.43	2.28	20	1
1:A:4:LEU:H	1:A:4:LEU:HD23	0.43	1.73	9	1
1:A:152:LYS:O	1:A:156:LEU:HD13	0.43	2.13	16	2
1:A:75:LYS:N	1:A:75:LYS:HD2	0.43	2.28	12	4
1:A:119:ARG:HB3	1:A:151:PHE:CG	0.43	2.48	16	1
1:A:126:LEU:HB3	1:A:130:MET:HE2	0.43	1.89	2	1
1:A:44:ARG:NH1	1:A:132:ASP:HA	0.43	2.28	12	1
1:A:68:PRO:O	1:A:72:LEU:HG	0.43	2.13	13	1
1:A:94:TRP:CZ2	1:A:125:GLN:HA	0.43	2.48	19	1
1:A:157:VAL:HG21	1:A:196:TYR:CE2	0.43	2.49	11	1
1:A:198:LYS:NZ	1:A:198:LYS:HB2	0.43	2.28	16	1
1:A:175:ILE:O	1:A:179:LEU:HD23	0.43	2.14	17	1
1:A:49:SER:HB2	1:A:52:TYR:CE1	0.43	2.49	6	1
1:A:44:ARG:HD2	1:A:132:ASP:OD1	0.43	2.13	9	1
1:A:44:ARG:HG2	1:A:45:SER:N	0.43	2.29	12	1
1:A:40:GLN:HA	1:A:55:ALA:HA	0.43	1.91	20	1
1:A:8:VAL:HA	1:A:23:ALA:O	0.43	2.13	14	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:125:GLN:HA	1:A:125:GLN:OE1	0.43	2.14	16	1
1:A:8:VAL:HG12	1:A:24:LEU:HD23	0.42	1.92	4	1
1:A:130:MET:CE	1:A:137:ILE:HD11	0.42	2.44	8	1
1:A:207:CYS:HA	1:A:212:ILE:HD13	0.42	1.90	2	1
1:A:130:MET:O	1:A:133:ARG:HG2	0.42	2.14	3	1
1:A:91:PRO:HA	1:A:94:TRP:CZ3	0.42	2.49	4	1
1:A:153:LEU:HD21	1:A:175:ILE:HD12	0.42	1.92	13	1
1:A:64:ILE:HB	1:A:85:LEU:CD1	0.42	2.44	19	1
1:A:29:SER:HB2	1:A:205:GLU:OE1	0.42	2.15	8	1
1:A:90:VAL:HG11	1:A:93:ASN:HD22	0.42	1.74	11	1
1:A:119:ARG:O	1:A:123:LEU:HD13	0.42	2.15	8	2
1:A:128:LYS:HE2	1:A:128:LYS:HA	0.42	1.91	14	1
1:A:137:ILE:HG23	1:A:139:LYS:O	0.42	2.13	19	1
1:A:85:LEU:O	1:A:89:VAL:HB	0.42	2.14	3	1
1:A:119:ARG:HA	1:A:151:PHE:CG	0.42	2.50	5	1
1:A:49:SER:HB2	1:A:52:TYR:CE2	0.42	2.50	18	1
1:A:188:ALA:HA	1:A:191:ASN:CG	0.42	2.35	18	1
1:A:129:PHE:HA	1:A:132:ASP:OD2	0.42	2.14	1	1
1:A:47:ILE:HD13	1:A:47:ILE:O	0.42	2.14	4	1
1:A:160:GLN:HB2	1:A:166:ILE:HD11	0.42	1.92	5	1
1:A:120:ASP:O	1:A:124:GLN:HB2	0.42	2.15	5	1
1:A:86:LYS:HD2	1:A:86:LYS:C	0.42	2.35	6	1
1:A:149:ASN:CB	1:A:179:LEU:HD11	0.42	2.44	8	1
1:A:69:GLU:HA	1:A:72:LEU:HG	0.42	1.91	17	1
1:A:52:TYR:HB3	1:A:54:ILE:HG12	0.42	1.92	18	1
1:A:127:TYR:OH	1:A:141:PRO:HD3	0.42	2.14	18	1
1:A:4:LEU:H	1:A:4:LEU:HD12	0.41	1.75	5	1
1:A:93:ASN:HB3	1:A:94:TRP:CE3	0.41	2.50	12	1
1:A:84:PHE:O	1:A:88:ARG:HG3	0.41	2.15	17	1
1:A:190:TYR:O	1:A:193:LYS:HG3	0.41	2.14	17	1
1:A:29:SER:HB2	1:A:205:GLU:OE2	0.41	2.15	13	1
1:A:172:TRP:HA	1:A:175:ILE:HG12	0.41	1.91	2	1
1:A:44:ARG:HD2	1:A:132:ASP:OD2	0.41	2.15	3	1
1:A:37:LYS:HD3	1:A:40:GLN:OE1	0.41	2.15	10	1
1:A:143:LEU:HD11	1:A:191:ASN:HB3	0.41	1.91	9	1
1:A:49:SER:HB2	1:A:52:TYR:CD1	0.41	2.51	1	1
1:A:144:GLY:O	1:A:146:LYS:HG2	0.41	2.16	2	1
1:A:205:GLU:HA	1:A:208:ARG:HG2	0.41	1.93	13	1
1:A:96:MET:SD	1:A:128:LYS:HB2	0.41	2.56	7	2
1:A:88:ARG:HG3	1:A:89:VAL:N	0.41	2.30	13	1
1:A:64:ILE:HG21	1:A:81:ALA:HB3	0.41	1.91	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:126:LEU:O	1:A:130:MET:HB2	0.41	2.16	7	1
1:A:9:VAL:HB	1:A:60:LYS:O	0.41	2.15	2	1
1:A:130:MET:HG3	1:A:133:ARG:CZ	0.41	2.45	3	1
1:A:27:SER:C	1:A:29:SER:H	0.41	2.19	6	1
1:A:150:LEU:HD12	1:A:151:PHE:N	0.41	2.30	7	1
1:A:79:GLN:O	1:A:83:ILE:HG13	0.41	2.16	17	1
1:A:101:ILE:HG12	1:A:127:TYR:CD1	0.41	2.51	19	1
1:A:166:ILE:HG21	1:A:172:TRP:NE1	0.41	2.30	20	1
1:A:102:LEU:HD12	1:A:123:LEU:HD21	0.41	1.91	8	1
1:A:119:ARG:HB2	1:A:151:PHE:CG	0.41	2.51	9	1
1:A:96:MET:HE1	1:A:127:TYR:HB3	0.41	1.93	13	1
1:A:162:GLY:O	1:A:166:ILE:HG13	0.40	2.16	1	1
1:A:101:ILE:HG12	1:A:127:TYR:CD2	0.40	2.51	6	1
1:A:130:MET:HE3	1:A:199:TYR:HA	0.40	1.93	16	1
1:A:194:THR:O	1:A:198:LYS:HG3	0.40	2.16	3	1
1:A:14:ALA:HA	1:A:58:ASP:OD2	0.40	2.16	8	1
1:A:172:TRP:O	1:A:175:ILE:HG12	0.40	2.17	11	1
1:A:211:ASN:N	1:A:211:ASN:HD22	0.40	2.14	19	1
1:A:63:ASP:HB2	1:A:66:ASN:OD1	0.40	2.15	6	1
1:A:3:GLU:HB3	1:A:61:GLU:HB3	0.40	1.92	12	1
1:A:149:ASN:N	1:A:149:ASN:HD22	0.40	2.14	18	1
1:A:101:ILE:HA	1:A:127:TYR:CZ	0.40	2.51	2	1
1:A:94:TRP:NE1	1:A:124:GLN:HB3	0.40	2.32	14	1
1:A:204:GLU:OE1	1:A:208:ARG:HD3	0.40	2.17	4	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	198/229 (86%)	182±3 (92±2%)	14±3 (7±1%)	2±1 (1±1%)	15	64
All	All	3960/4580 (86%)	3644 (92%)	272 (7%)	44 (1%)	15	64

All 15 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	103	GLU	10
1	A	184	LEU	8
1	A	91	PRO	6
1	A	92	ASP	3
1	A	15	THR	3
1	A	2	ASP	2
1	A	13	SER	2
1	A	88	ARG	2
1	A	97	ASP	2
1	A	141	PRO	1
1	A	101	ILE	1
1	A	212	ILE	1
1	A	14	ALA	1
1	A	183	ILE	1
1	A	90	VAL	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	180/211 (85%)	166±3 (92±2%)	14±3 (8±2%)	13 62
All	All	3600/4220 (85%)	3317 (92%)	283 (8%)	13 62

All 67 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	42	LEU	18
1	A	86	LYS	17
1	A	211	ASN	17
1	A	146	LYS	13
1	A	50	LYS	11
1	A	61	GLU	11
1	A	127	TYR	10
1	A	198	LYS	10
1	A	139	LYS	10
1	A	94	TRP	8
1	A	3	GLU	7

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Mol	Chain	Res	Type	Models (Total)
1	A	47	ILE	6
1	A	138	ASN	6
1	A	75	LYS	6
1	A	62	VAL	5
1	A	7	LYS	5
1	A	177	MET	5
1	A	38	LYS	5
1	A	128	LYS	5
1	A	193	LYS	5
1	A	43	VAL	5
1	A	174	GLN	4
1	A	69	GLU	4
1	A	88	ARG	4
1	A	16	GLU	4
1	A	204	GLU	4
1	A	201	TYR	4
1	A	78	LEU	4
1	A	65	LEU	4
1	A	66	ASN	4
1	A	52	TYR	3
1	A	208	ARG	3
1	A	56	ARG	3
1	A	93	ASN	3
1	A	124	GLN	3
1	A	29	SER	2
1	A	60	LYS	2
1	A	95	LYS	2
1	A	197	ARG	2
1	A	163	CYS	2
1	A	120	ASP	2
1	A	132	ASP	2
1	A	133	ARG	2
1	A	153	LEU	2
1	A	142	VAL	2
1	A	125	GLN	2
1	A	149	ASN	2
1	A	18	THR	2
1	A	57	LYS	2
1	A	17	ARG	2
1	A	10	SER	1
1	A	118	GLU	1
1	A	131	GLU	1

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Mol	Chain	Res	Type	Models (Total)
1	A	156	LEU	1
1	A	119	ARG	1
1	A	103	GLU	1
1	A	203	PHE	1
1	A	178	ASP	1
1	A	80	LYS	1
1	A	160	GLN	1
1	A	31	ASN	1
1	A	100	GLU	1
1	A	40	GLN	1
1	A	63	ASP	1
1	A	84	PHE	1
1	A	19	GLU	1
1	A	206	TYR	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 86% for the well-defined parts and 81% 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	2611
Number of shifts mapped to atoms	2611
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	3

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	216	-0.62 ± 0.10	Should be checked
$^{13}C_{\beta}$	206	0.18 ± 0.08	None needed (< 0.5 ppm)
$^{13}C'$	210	-0.17 ± 0.05	None needed (< 0.5 ppm)
^{15}N	201	0.35 ± 0.21	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 86%, i.e. 2394 atoms were assigned a chemical shift out of a possible 2778. 0 out of 34 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	966/981 (98%)	389/396 (98%)	391/396 (99%)	186/189 (98%)
Sidechain	1345/1574 (85%)	913/1020 (90%)	412/494 (83%)	20/60 (33%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	83/223 (37%)	49/106 (46%)	32/112 (29%)	2/5 (40%)
Overall	2394/2778 (86%)	1351/1522 (89%)	835/1002 (83%)	208/254 (82%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 81%, i.e. 2611 atoms were assigned a chemical shift out of a possible 3216. 0 out of 37 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	1052/1134 (93%)	425/457 (93%)	426/458 (93%)	201/219 (92%)
Sidechain	1476/1777 (83%)	1006/1148 (88%)	448/561 (80%)	22/68 (32%)
Aromatic	83/305 (27%)	49/147 (33%)	32/135 (24%)	2/23 (9%)
Overall	2611/3216 (81%)	1480/1752 (84%)	906/1154 (79%)	225/310 (73%)

7.1.4 Statistically unusual chemical shifts (i)

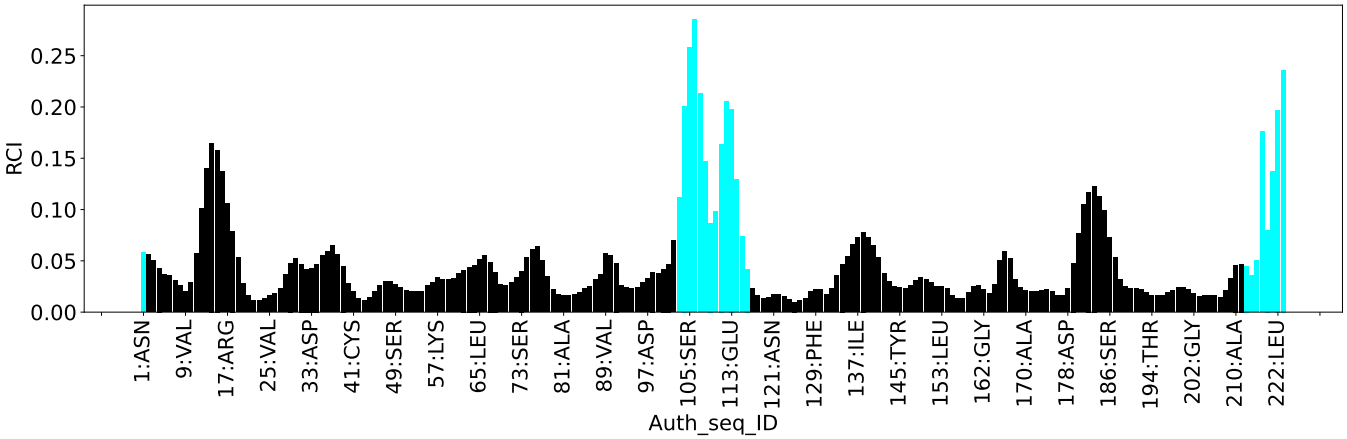
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, *ppm*	Expected range, *ppm*	Z-score
1	A	203	PHE	CE1	116.70	124.17 – 137.29	-10.7
1	A	193	LYS	HB2	0.24	0.58 – 2.97	-6.4
1	A	172	TRP	HB2	1.32	1.51 – 4.87	-5.5

7.1.5 Random Coil Index (RCI) plots (i)

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

Random coil index (RCI) for chain A:


RCI
0.25
0.20
0.15
0.10
0.05
0.00
1:ASN
9:VAL
17:ARG
25:VAL
33:ASP
41:CYS
49:SER
57:LYS
65:LEU
73:SER
81:ALA
89:VAL
97:ASP
105:SER
113:GLU
121:ASN
129:PHE
137:ILE
145:TYR
153:LEU
162:GLY
170:ALA
178:ASP
186:SER
194:THR
202:GLY
210:ALA
222:LEU
Auth_seq_ID

8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	6481
Intra-residue (|i-j|=0)	1847
Sequential (|i-j|=1)	1454
Medium range (|i-j|>1 and |i-j|<5)	1151
Long range (|i-j|≥5)	1961
Inter-chain	0
Hydrogen bond restraints	68
Disulfide bond restraints	0
Total dihedral-angle restraints	323
Number of unmapped restraints	0
Number of restraints per residue	29.7
Number of long range restraints per residue[1]	8.6

[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)	61.0	0.2
0.2-0.5 (Medium)	91.9	0.5
>0.5 (Large)	51.8	1.78

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)	7.2	3.68
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis (i)

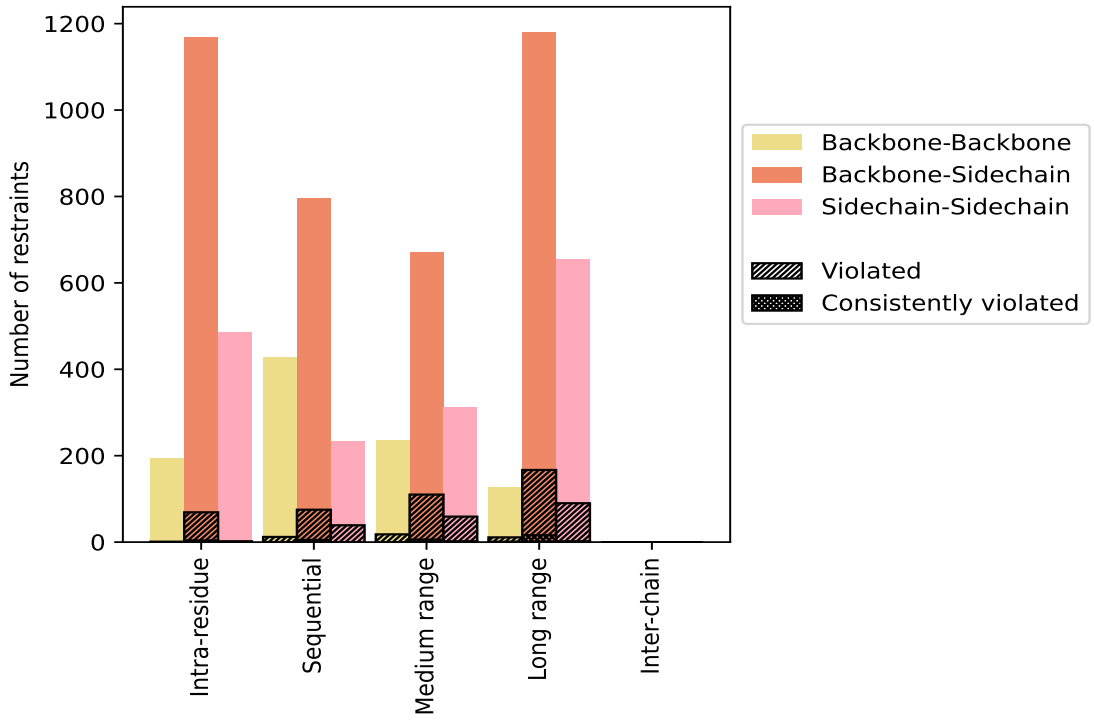
9.1 Summary of distance violations (i)

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)	1847	28.5	72	3.9	1.1	4	0.2	0.1
Backbone-Backbone	193	3.0	1	0.5	0.0	0	0.0	0.0
Backbone-Sidechain	1169	18.0	69	5.9	1.1	4	0.3	0.1
Sidechain-Sidechain	485	7.5	2	0.4	0.0	0	0.0	0.0
Sequential (|i-j|=1)	1454	22.4	126	8.7	1.9	5	0.3	0.1
Backbone-Backbone	427	6.6	12	2.8	0.2	0	0.0	0.0
Backbone-Sidechain	795	12.3	75	9.4	1.2	5	0.6	0.1
Sidechain-Sidechain	232	3.6	39	16.8	0.6	0	0.0	0.0
Medium range (|i-j|>1 & |i-j|<5)	1151	17.8	184	16.0	2.8	8	0.7	0.1
Backbone-Backbone	236	3.6	18	7.6	0.3	0	0.0	0.0
Backbone-Sidechain	603	9.3	107	17.7	1.7	6	1.0	0.1
Sidechain-Sidechain	312	4.8	59	18.9	0.9	2	0.6	0.0
Long range (|i-j|≥5)	1961	30.3	268	13.7	4.1	19	1.0	0.3
Backbone-Backbone	127	2.0	11	8.7	0.2	1	0.8	0.0
Backbone-Sidechain	1180	18.2	167	14.2	2.6	16	1.4	0.2
Sidechain-Sidechain	654	10.1	90	13.8	1.4	2	0.3	0.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	68	1.0	3	4.4	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	6481	100.0	653	10.1	10.1	36	0.6	0.6
Backbone-Backbone	983	15.2	42	4.3	0.6	1	0.1	0.0
Backbone-Sidechain	3815	58.9	421	11.0	6.5	31	0.8	0.5
Sidechain-Sidechain	1683	26.0	190	11.3	2.9	4	0.2	0.1

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

9.1.1 Bar chart : Distribution of distance restraints and violations



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

9.2 Distance violation statistics for each model

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
1	32	53	50	70	0	205	0.39	1.47	0.3	0.28
2	25	53	55	76	0	209	0.39	1.59	0.29	0.29
3	28	63	63	75	0	229	0.37	1.59	0.26	0.3
4	27	56	48	80	0	211	0.36	1.46	0.27	0.26
5	21	47	52	73	0	193	0.38	1.47	0.27	0.29
6	22	54	57	71	0	204	0.38	1.45	0.28	0.29
7	31	53	56	67	0	207	0.36	1.5	0.26	0.28
8	26	49	57	72	0	204	0.38	1.66	0.29	0.27
9	27	57	54	68	0	206	0.36	1.32	0.25	0.29
10	25	55	57	74	0	211	0.36	1.34	0.24	0.28

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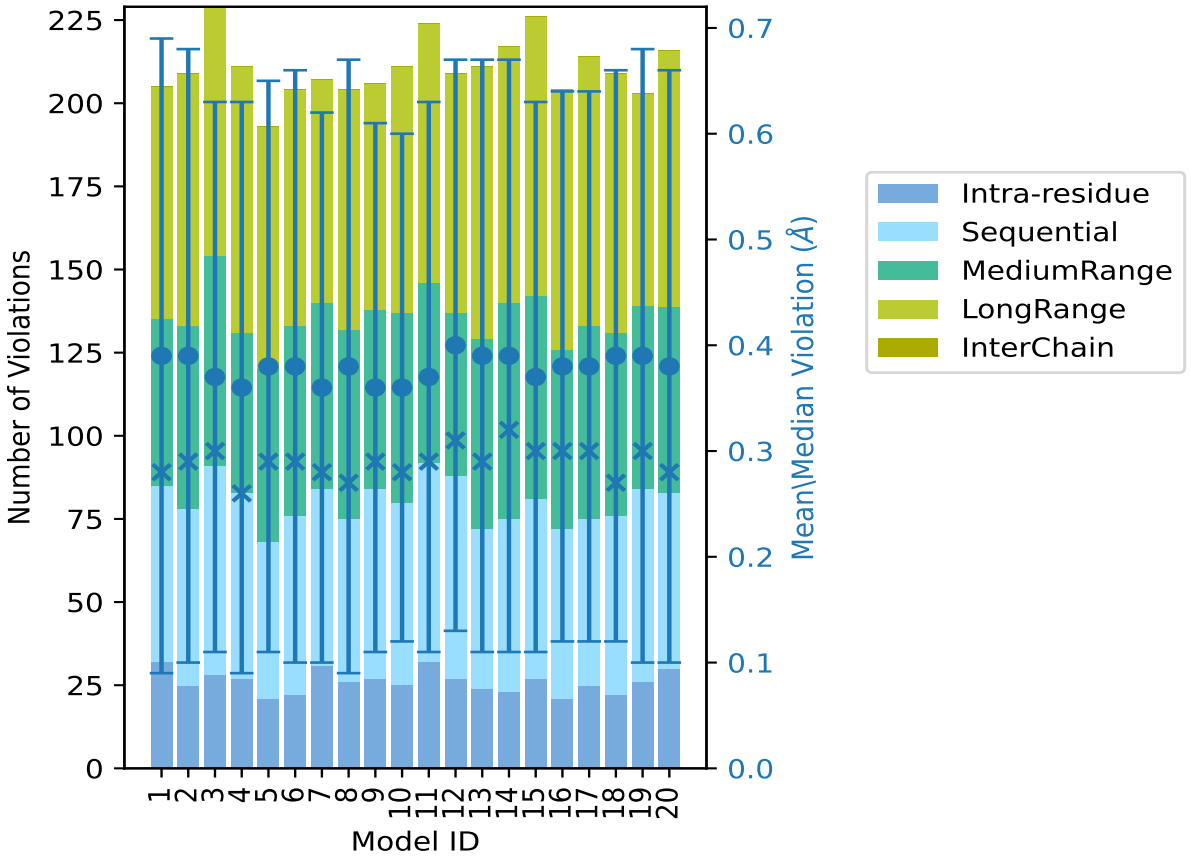
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
11	32	60	54	78	0	224	0.37	1.47	0.26	0.29
12	27	61	49	72	0	209	0.4	1.42	0.27	0.31
13	24	48	57	82	0	211	0.39	1.37	0.28	0.29
14	23	52	65	77	0	217	0.39	1.57	0.28	0.32
15	27	54	61	84	0	226	0.37	1.56	0.26	0.3
16	21	51	54	78	0	204	0.38	1.39	0.26	0.3
17	25	50	58	81	0	214	0.38	1.42	0.26	0.3
18	22	54	55	78	0	209	0.39	1.38	0.27	0.27
19	26	58	55	64	0	203	0.39	1.78	0.29	0.3
20	30	53	56	77	0	216	0.38	1.64	0.28	0.28

[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

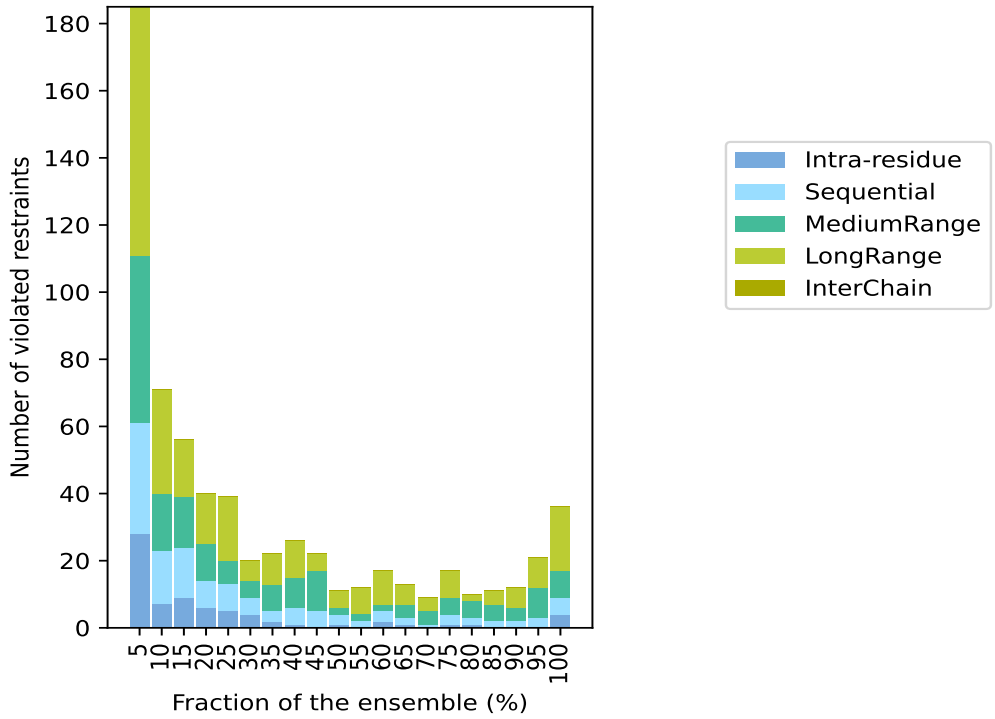
9.3 Distance violation statistics for the ensemble (i)

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, 5763(IR:1775, SQ:1328, MR:967, LR:1693, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total	Count[6]	%
28	33	50	74	0	185	1	5.0
7	16	17	31	0	71	2	10.0
9	15	15	17	0	56	3	15.0
6	8	11	15	0	40	4	20.0
5	8	7	19	0	39	5	25.0
4	5	5	6	0	20	6	30.0
2	3	8	9	0	22	7	35.0
1	5	9	11	0	26	8	40.0
0	5	12	5	0	22	9	45.0
1	3	2	5	0	11	10	50.0
0	2	2	8	0	12	11	55.0
2	3	2	10	0	17	12	60.0
1	2	4	6	0	13	13	65.0
0	1	4	4	0	9	14	70.0
1	3	5	8	0	17	15	75.0
1	2	5	2	0	10	16	80.0
0	2	5	4	0	11	17	85.0
0	2	4	6	0	12	18	90.0
0	3	9	9	0	21	19	95.0
4	5	8	19	0	36	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

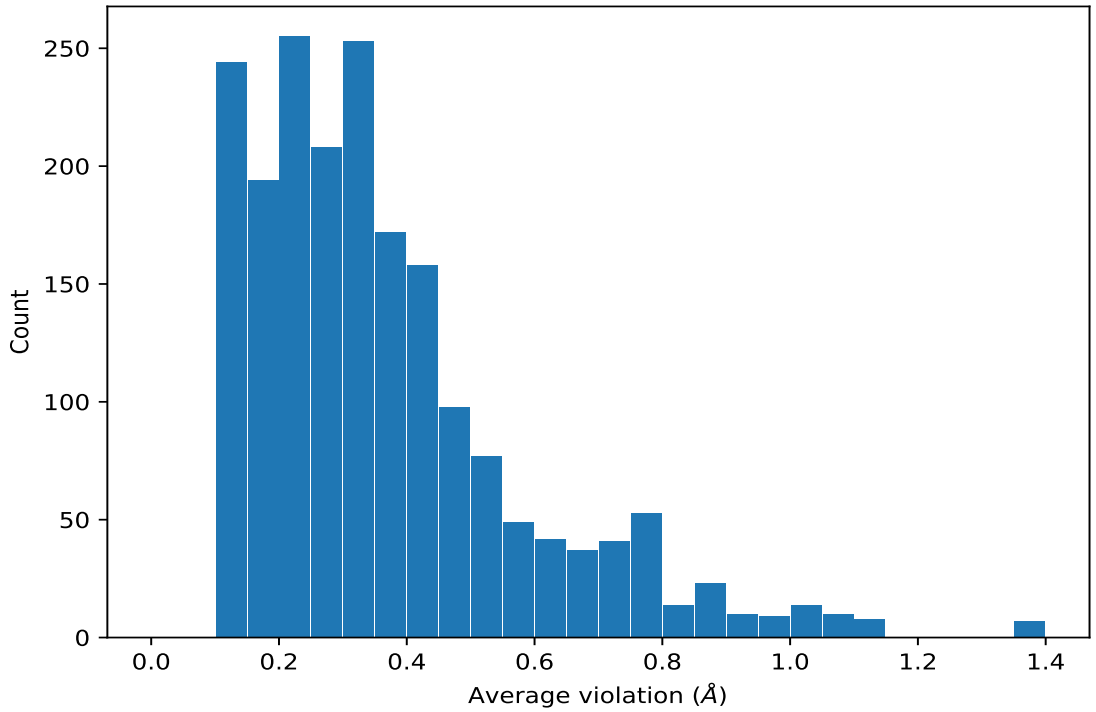
9.3.1 Bar graph : Distance violation statistics for the ensemble



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 (i)

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)
(1,5734)	1:54:A:ILE:HG21	1:11:A:VAL:H	20	1.35	0.25	1.38
(1,5734)	1:54:A:ILE:HG23	1:60:A:LYS:H	20	1.35	0.25	1.38
(1,5734)	1:54:A:ILE:HG22	1:53:A:SER:H	20	1.35	0.25	1.38
(1,5734)	1:54:A:ILE:HG23	1:53:A:SER:H	20	1.35	0.25	1.38
(1,5734)	1:54:A:ILE:HG22	1:11:A:VAL:H	20	1.35	0.25	1.38
(1,5734)	1:54:A:ILE:HG23	1:11:A:VAL:H	20	1.35	0.25	1.38
(1,5734)	1:54:A:ILE:HG21	1:60:A:LYS:H	20	1.35	0.25	1.38
(1,2538)	1:183:A:ILE:HD12	1:182:A:PRO:HA	20	1.13	0.41	1.34
(1,2538)	1:183:A:ILE:HD11	1:182:A:PRO:HA	20	1.13	0.41	1.34
(1,2538)	1:183:A:ILE:HD13	1:184:A:LEU:HA	20	1.13	0.41	1.34
(1,2538)	1:183:A:ILE:HD11	1:172:A:TRP:HA	20	1.13	0.41	1.34
(1,2538)	1:183:A:ILE:HD11	1:184:A:LEU:HA	20	1.13	0.41	1.34
(1,2538)	1:183:A:ILE:HD13	1:182:A:PRO:HA	20	1.13	0.41	1.34
(1,2538)	1:183:A:ILE:HD12	1:172:A:TRP:HA	20	1.13	0.41	1.34
(1,2538)	1:183:A:ILE:HD12	1:184:A:LEU:HA	20	1.13	0.41	1.34
(1,5787)	1:98:A:ILE:HD13	1:100:A:GLU:H	20	1.08	0.25	1.1

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5787)	1:98:A:ILE:HD12	1:100:A:GLU:H	20	1.08	0.25	1.1
(1,5787)	1:98:A:ILE:HD11	1:100:A:GLU:H	20	1.08	0.25	1.1
(1,5787)	1:98:A:ILE:HD12	1:103:A:GLU:H	20	1.08	0.25	1.1
(1,5787)	1:98:A:ILE:HD11	1:103:A:GLU:H	20	1.08	0.25	1.1
(1,5787)	1:98:A:ILE:HD13	1:103:A:GLU:H	20	1.08	0.25	1.1
(1,167)	1:176:A:TYR:HE1	1:177:A:MET:H	20	1.05	0.15	1.08
(1,167)	1:176:A:TYR:HE2	1:177:A:MET:H	20	1.05	0.15	1.08
(1,167)	1:176:A:TYR:HE1	1:145:A:TYR:H	20	1.05	0.15	1.08
(1,167)	1:176:A:TYR:HE2	1:145:A:TYR:H	20	1.05	0.15	1.08
(1,2543)	1:64:A:ILE:HG12	1:65:A:LEU:HA	20	0.96	0.12	0.97
(1,2543)	1:64:A:ILE:HG13	1:62:A:VAL:HA	20	0.96	0.12	0.97
(1,2543)	1:64:A:ILE:HG12	1:62:A:VAL:HA	20	0.96	0.12	0.97
(1,2843)	1:181:A:ILE:HD12	1:182:A:PRO:HG2	20	0.92	0.29	0.96
(1,2843)	1:181:A:ILE:HD12	1:182:A:PRO:HG3	20	0.92	0.29	0.96
(1,2843)	1:181:A:ILE:HD13	1:182:A:PRO:HG2	20	0.92	0.29	0.96
(1,2843)	1:181:A:ILE:HD13	1:182:A:PRO:HG3	20	0.92	0.29	0.96
(1,2843)	1:181:A:ILE:HD13	1:153:A:LEU:HB2	20	0.92	0.29	0.96
(1,2843)	1:181:A:ILE:HD13	1:153:A:LEU:HB3	20	0.92	0.29	0.96
(1,2843)	1:181:A:ILE:HD12	1:153:A:LEU:HB2	20	0.92	0.29	0.96
(1,2843)	1:181:A:ILE:HD12	1:153:A:LEU:HB3	20	0.92	0.29	0.96
(1,2843)	1:181:A:ILE:HD11	1:153:A:LEU:HB2	20	0.92	0.29	0.96
(1,2843)	1:181:A:ILE:HD11	1:153:A:LEU:HB3	20	0.92	0.29	0.96
(1,2482)	1:175:A:ILE:HD13	1:174:A:GLN:H	20	0.88	0.14	0.91
(1,2482)	1:175:A:ILE:HD11	1:172:A:TRP:HZ2	20	0.88	0.14	0.91
(1,2482)	1:175:A:ILE:HD11	1:174:A:GLN:H	20	0.88	0.14	0.91
(1,2482)	1:175:A:ILE:HD12	1:174:A:GLN:H	20	0.88	0.14	0.91
(1,2482)	1:175:A:ILE:HD13	1:172:A:TRP:HZ2	20	0.88	0.14	0.91
(1,5678)	1:137:A:ILE:HD13	1:130:A:MET:H	20	0.86	0.21	0.88
(1,5678)	1:137:A:ILE:HD11	1:130:A:MET:H	20	0.86	0.21	0.88
(1,5678)	1:137:A:ILE:HD12	1:130:A:MET:H	20	0.86	0.21	0.88
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD1	20	0.82	0.09	0.84
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD2	20	0.82	0.09	0.84
(1,2892)	1:175:A:ILE:HD13	1:176:A:TYR:HD1	20	0.82	0.09	0.84
(1,2892)	1:175:A:ILE:HD13	1:176:A:TYR:HD2	20	0.82	0.09	0.84
(1,2892)	1:175:A:ILE:HD11	1:176:A:TYR:HD1	20	0.82	0.09	0.84
(1,2892)	1:175:A:ILE:HD11	1:176:A:TYR:HD2	20	0.82	0.09	0.84
(1,5558)	1:9:A:VAL:HG12	1:8:A:VAL:H	20	0.79	0.2	0.8
(1,5558)	1:12:A:VAL:HG12	1:17:A:ARG:H	20	0.79	0.2	0.8
(1,5558)	1:9:A:VAL:HG13	1:8:A:VAL:H	20	0.79	0.2	0.8
(1,5558)	1:9:A:VAL:HG11	1:8:A:VAL:H	20	0.79	0.2	0.8
(1,5558)	1:12:A:VAL:HG11	1:17:A:ARG:H	20	0.79	0.2	0.8
(1,2908)	1:137:A:ILE:HD13	1:130:A:MET:H	20	0.76	0.21	0.78

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2908)	1:137:A:ILE:HD11	1:199:A:TYR:H	20	0.76	0.21	0.78
(1,2908)	1:137:A:ILE:HD11	1:130:A:MET:H	20	0.76	0.21	0.78
(1,2908)	1:137:A:ILE:HD12	1:130:A:MET:H	20	0.76	0.21	0.78
(1,2908)	1:137:A:ILE:HD13	1:199:A:TYR:H	20	0.76	0.21	0.78
(1,2908)	1:137:A:ILE:HD12	1:199:A:TYR:H	20	0.76	0.21	0.78
(1,5665)	1:34:A:ILE:HG13	1:33:A:ASP:H	20	0.75	0.16	0.78
(1,5665)	1:50:A:LYS:HB2	1:133:A:ARG:H	20	0.75	0.16	0.78
(1,5665)	1:50:A:LYS:HB3	1:133:A:ARG:H	20	0.75	0.16	0.78
(1,5665)	1:200:A:LEU:HB3	1:205:A:GLU:H	20	0.75	0.16	0.78
(1,2848)	1:11:A:VAL:HG21	1:43:A:VAL:H	20	0.74	0.27	0.78
(1,2848)	1:11:A:VAL:HG22	1:43:A:VAL:H	20	0.74	0.27	0.78
(1,2848)	1:11:A:VAL:HG21	1:44:A:ARG:H	20	0.74	0.27	0.78
(1,2848)	1:11:A:VAL:HG23	1:43:A:VAL:H	20	0.74	0.27	0.78
(1,2848)	1:11:A:VAL:HG23	1:44:A:ARG:H	20	0.74	0.27	0.78
(1,2848)	1:11:A:VAL:HG22	1:44:A:ARG:H	20	0.74	0.27	0.78
(1,3016)	1:157:A:VAL:HG21	1:156:A:LEU:HA	20	0.63	0.08	0.65
(1,3016)	1:157:A:VAL:HG23	1:156:A:LEU:HA	20	0.63	0.08	0.65
(1,3016)	1:157:A:VAL:HG11	1:156:A:LEU:HA	20	0.63	0.08	0.65
(1,3016)	1:157:A:VAL:HG12	1:156:A:LEU:HA	20	0.63	0.08	0.65
(1,3016)	1:157:A:VAL:HG22	1:156:A:LEU:HA	20	0.63	0.08	0.65
(1,2536)	1:181:A:ILE:HD11	1:179:A:LEU:HA	20	0.62	0.17	0.62
(1,2536)	1:181:A:ILE:HD12	1:179:A:LEU:HA	20	0.62	0.17	0.62
(1,2536)	1:181:A:ILE:HD13	1:179:A:LEU:HA	20	0.62	0.17	0.62
(1,2429)	1:181:A:ILE:HD13	1:180:A:GLY:H	20	0.56	0.08	0.58
(1,2429)	1:181:A:ILE:HD11	1:180:A:GLY:H	20	0.56	0.08	0.58
(1,2429)	1:181:A:ILE:HD12	1:180:A:GLY:H	20	0.56	0.08	0.58
(1,2429)	1:181:A:ILE:HD13	1:145:A:TYR:H	20	0.56	0.08	0.58
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG12	20	0.54	0.21	0.55
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG13	20	0.54	0.21	0.55
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG12	20	0.54	0.21	0.55
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG13	20	0.54	0.21	0.55
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	20	0.52	0.04	0.52
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	20	0.52	0.04	0.52
(1,173)	1:146:A:LYS:H	1:145:A:TYR:HD1	20	0.52	0.04	0.52
(1,173)	1:146:A:LYS:H	1:145:A:TYR:HD2	20	0.52	0.04	0.52
(1,173)	1:191:A:ASN:HD21	1:190:A:TYR:HD1	20	0.52	0.04	0.52
(1,173)	1:191:A:ASN:HD21	1:190:A:TYR:HD2	20	0.52	0.04	0.52
(1,173)	1:191:A:ASN:HD22	1:190:A:TYR:HD1	20	0.52	0.04	0.52
(1,173)	1:191:A:ASN:HD22	1:190:A:TYR:HD2	20	0.52	0.04	0.52
(1,3014)	1:175:A:ILE:HG21	1:156:A:LEU:HA	20	0.49	0.07	0.5
(1,3014)	1:175:A:ILE:HG23	1:156:A:LEU:HA	20	0.49	0.07	0.5
(1,3014)	1:175:A:ILE:HG22	1:156:A:LEU:HA	20	0.49	0.07	0.5

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	20	0.46	0.05	0.46
(1,3012)	1:173:A:LYS:HB3	1:174:A:GLN:HA	20	0.46	0.09	0.47
(1,3012)	1:160:A:GLN:HG2	1:156:A:LEU:HA	20	0.46	0.09	0.47
(1,3012)	1:160:A:GLN:HG3	1:156:A:LEU:HA	20	0.46	0.09	0.47
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	20	0.46	0.13	0.42
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD11	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD12	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD13	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD21	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD22	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD23	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD11	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD12	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD13	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD21	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD22	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD23	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG11	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG12	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG13	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG21	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG22	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG23	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG11	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG12	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG13	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG21	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG22	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG23	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG11	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG12	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG13	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG21	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG22	20	0.42	0.12	0.44
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG23	20	0.42	0.12	0.44
(1,2532)	1:183:A:ILE:HG21	1:182:A:PRO:HA	20	0.4	0.09	0.39
(1,2532)	1:183:A:ILE:HG21	1:184:A:LEU:HA	20	0.4	0.09	0.39
(1,2532)	1:183:A:ILE:HG22	1:182:A:PRO:HA	20	0.4	0.09	0.39
(1,2532)	1:183:A:ILE:HG23	1:182:A:PRO:HA	20	0.4	0.09	0.39
(1,2532)	1:183:A:ILE:HG22	1:184:A:LEU:HA	20	0.4	0.09	0.39
(1,2532)	1:183:A:ILE:HG23	1:184:A:LEU:HA	20	0.4	0.09	0.39
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD11	20	0.39	0.12	0.4

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD12	20	0.39	0.12	0.4
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD13	20	0.39	0.12	0.4
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD21	20	0.39	0.12	0.4
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD22	20	0.39	0.12	0.4
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD23	20	0.39	0.12	0.4
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD11	20	0.39	0.12	0.4
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD12	20	0.39	0.12	0.4
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD13	20	0.39	0.12	0.4
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD21	20	0.39	0.12	0.4
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD22	20	0.39	0.12	0.4
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD23	20	0.39	0.12	0.4
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD11	20	0.39	0.12	0.4
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD12	20	0.39	0.12	0.4
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD13	20	0.39	0.12	0.4
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD21	20	0.39	0.12	0.4
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD22	20	0.39	0.12	0.4
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD23	20	0.39	0.12	0.4
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	20	0.35	0.14	0.34
(1,5312)	1:20:A:TRP:HE1	1:11:A:VAL:H	20	0.35	0.14	0.34
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	20	0.33	0.08	0.32
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	20	0.33	0.08	0.32
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	20	0.33	0.08	0.32
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	20	0.31	0.1	0.28
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	20	0.31	0.1	0.28
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	20	0.31	0.1	0.28
(1,5139)	1:80:A:LYS:H	1:47:A:ILE:HD11	20	0.31	0.1	0.28
(1,5139)	1:80:A:LYS:H	1:47:A:ILE:HD12	20	0.31	0.1	0.28
(1,5139)	1:80:A:LYS:H	1:47:A:ILE:HD13	20	0.31	0.1	0.28
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	20	0.3	0.05	0.3
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	20	0.3	0.05	0.3
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	20	0.3	0.05	0.3
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	20	0.29	0.04	0.3
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	20	0.29	0.04	0.3
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	20	0.29	0.04	0.3
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	20	0.29	0.06	0.3
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	20	0.29	0.06	0.3
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	20	0.29	0.06	0.3
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	20	0.28	0.05	0.3
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	20	0.28	0.05	0.3
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	20	0.28	0.05	0.3
(1,3154)	1:34:A:ILE:H	1:34:A:ILE:HG21	20	0.28	0.05	0.3
(1,3154)	1:34:A:ILE:H	1:34:A:ILE:HG22	20	0.28	0.05	0.3

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3154)	1:34:A:ILE:H	1:34:A:ILE:HG23	20	0.28	0.05	0.3
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	20	0.24	0.07	0.23
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	20	0.24	0.07	0.23
(1,2551)	1:98:A:ILE:HG21	1:98:A:ILE:HA	20	0.24	0.02	0.25
(1,2551)	1:98:A:ILE:HG22	1:98:A:ILE:HA	20	0.24	0.02	0.25
(1,2551)	1:98:A:ILE:HG23	1:98:A:ILE:HA	20	0.24	0.02	0.25
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD11	20	0.22	0.04	0.22
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD12	20	0.22	0.04	0.22
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD13	20	0.22	0.04	0.22
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG21	20	0.22	0.04	0.22
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG22	20	0.22	0.04	0.22
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG23	20	0.22	0.04	0.22
(1,2871)	1:175:A:ILE:HG13	1:175:A:ILE:HA	20	0.17	0.02	0.17
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	20	0.17	0.02	0.17
(1,2920)	1:54:A:ILE:HD11	1:52:A:TYR:HA	19	0.97	0.29	1.03
(1,2920)	1:54:A:ILE:HD13	1:52:A:TYR:HA	19	0.97	0.29	1.03
(1,2920)	1:54:A:ILE:HD12	1:52:A:TYR:HA	19	0.97	0.29	1.03
(1,2920)	1:54:A:ILE:HD11	1:58:A:ASP:HA	19	0.97	0.29	1.03
(1,2920)	1:54:A:ILE:HD12	1:58:A:ASP:HA	19	0.97	0.29	1.03
(1,2920)	1:54:A:ILE:HD13	1:58:A:ASP:HA	19	0.97	0.29	1.03
(1,5654)	1:51:A:PHE:HA	1:31:A:ASN:HD21	19	0.86	0.14	0.88
(1,5654)	1:51:A:PHE:HA	1:31:A:ASN:HD22	19	0.86	0.14	0.88
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD21	19	0.86	0.14	0.88
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD22	19	0.86	0.14	0.88
(1,5654)	1:53:A:SER:HA	1:31:A:ASN:HD21	19	0.86	0.14	0.88
(1,5654)	1:53:A:SER:HA	1:31:A:ASN:HD22	19	0.86	0.14	0.88
(1,2539)	1:54:A:ILE:HD13	1:14:A:ALA:HA	19	0.81	0.3	0.89
(1,2539)	1:54:A:ILE:HD12	1:14:A:ALA:HA	19	0.81	0.3	0.89
(1,2539)	1:54:A:ILE:HD11	1:14:A:ALA:HA	19	0.81	0.3	0.89
(1,2539)	1:54:A:ILE:HD12	1:11:A:VAL:HA	19	0.81	0.3	0.89
(1,2442)	1:101:A:ILE:HD11	1:100:A:GLU:H	19	0.66	0.17	0.69
(1,2442)	1:101:A:ILE:HD13	1:100:A:GLU:H	19	0.66	0.17	0.69
(1,2442)	1:101:A:ILE:HD12	1:100:A:GLU:H	19	0.66	0.17	0.69
(1,2373)	1:26:A:ILE:HD12	1:44:A:ARG:H	19	0.6	0.19	0.65
(1,2373)	1:26:A:ILE:HD11	1:43:A:VAL:H	19	0.6	0.19	0.65
(1,2373)	1:26:A:ILE:HD13	1:43:A:VAL:H	19	0.6	0.19	0.65
(1,2373)	1:26:A:ILE:HD11	1:44:A:ARG:H	19	0.6	0.19	0.65
(1,2373)	1:26:A:ILE:HD13	1:44:A:ARG:H	19	0.6	0.19	0.65
(1,2373)	1:26:A:ILE:HD12	1:43:A:VAL:H	19	0.6	0.19	0.65
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	19	0.55	0.26	0.5
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	19	0.55	0.26	0.5
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	19	0.55	0.26	0.5

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3063)	1:56:A:ARG:H	1:59:A:ILE:HG21	19	0.55	0.26	0.5
(1,3063)	1:56:A:ARG:H	1:59:A:ILE:HG22	19	0.55	0.26	0.5
(1,3063)	1:56:A:ARG:H	1:59:A:ILE:HG23	19	0.55	0.26	0.5
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD11	19	0.51	0.16	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD12	19	0.51	0.16	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD13	19	0.51	0.16	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD21	19	0.51	0.16	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD22	19	0.51	0.16	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD23	19	0.51	0.16	0.51
(1,5128)	1:197:A:ARG:H	1:200:A:LEU:HG	19	0.51	0.16	0.51
(1,5128)	1:197:A:ARG:H	1:198:A:LYS:HD2	19	0.51	0.16	0.51
(1,5128)	1:197:A:ARG:H	1:198:A:LYS:HD3	19	0.51	0.16	0.51
(1,2530)	1:36:A:VAL:HG13	1:37:A:LYS:HA	19	0.48	0.19	0.4
(1,2530)	1:36:A:VAL:HG12	1:37:A:LYS:HA	19	0.48	0.19	0.4
(1,2530)	1:36:A:VAL:HG11	1:37:A:LYS:HA	19	0.48	0.19	0.4
(1,2530)	1:36:A:VAL:HG21	1:37:A:LYS:HA	19	0.48	0.19	0.4
(1,2530)	1:36:A:VAL:HG23	1:37:A:LYS:HA	19	0.48	0.19	0.4
(1,2549)	1:36:A:VAL:HG13	1:37:A:LYS:HA	19	0.48	0.19	0.4
(1,2549)	1:36:A:VAL:HG12	1:37:A:LYS:HA	19	0.48	0.19	0.4
(1,2549)	1:36:A:VAL:HG11	1:37:A:LYS:HA	19	0.48	0.19	0.4
(1,2549)	1:36:A:VAL:HG21	1:37:A:LYS:HA	19	0.48	0.19	0.4
(1,2549)	1:36:A:VAL:HG23	1:37:A:LYS:HA	19	0.48	0.19	0.4
(1,4996)	1:75:A:LYS:H	1:76:A:PRO:HG2	19	0.46	0.11	0.44
(1,4996)	1:75:A:LYS:H	1:76:A:PRO:HG3	19	0.46	0.11	0.44
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB2	19	0.46	0.11	0.44
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB3	19	0.46	0.11	0.44
(1,3053)	1:55:A:ALA:HB3	1:40:A:GLN:HA	19	0.44	0.12	0.47
(1,3053)	1:55:A:ALA:HB1	1:40:A:GLN:HA	19	0.44	0.12	0.47
(1,3053)	1:55:A:ALA:HB2	1:40:A:GLN:HA	19	0.44	0.12	0.47
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD1	19	0.43	0.17	0.37
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD2	19	0.43	0.17	0.37
(1,4965)	1:84:A:PHE:H	1:88:A:ARG:HE	19	0.43	0.17	0.37
(1,2481)	1:187:A:ALA:HB3	1:190:A:TYR:HD1	19	0.39	0.12	0.35
(1,2481)	1:187:A:ALA:HB3	1:190:A:TYR:HD2	19	0.39	0.12	0.35
(1,2481)	1:187:A:ALA:HB2	1:190:A:TYR:HD1	19	0.39	0.12	0.35
(1,2481)	1:187:A:ALA:HB2	1:190:A:TYR:HD2	19	0.39	0.12	0.35
(1,2481)	1:187:A:ALA:HB1	1:190:A:TYR:HD1	19	0.39	0.12	0.35
(1,2481)	1:187:A:ALA:HB1	1:190:A:TYR:HD2	19	0.39	0.12	0.35
(1,2481)	1:187:A:ALA:HB3	1:191:A:ASN:HD21	19	0.39	0.12	0.35
(1,2481)	1:187:A:ALA:HB3	1:191:A:ASN:HD22	19	0.39	0.12	0.35
(1,2481)	1:187:A:ALA:HB2	1:191:A:ASN:HD21	19	0.39	0.12	0.35
(1,2481)	1:187:A:ALA:HB2	1:191:A:ASN:HD22	19	0.39	0.12	0.35

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD11	19	0.33	0.11	0.3
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD12	19	0.33	0.11	0.3
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD13	19	0.33	0.11	0.3
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD21	19	0.33	0.11	0.3
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD22	19	0.33	0.11	0.3
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD23	19	0.33	0.11	0.3
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD11	19	0.33	0.11	0.3
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD12	19	0.33	0.11	0.3
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD13	19	0.33	0.11	0.3
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD21	19	0.33	0.11	0.3
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD22	19	0.33	0.11	0.3
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD23	19	0.33	0.11	0.3
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	19	0.32	0.07	0.34
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	19	0.32	0.07	0.34
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	19	0.27	0.1	0.26
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	19	0.27	0.1	0.26
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	19	0.27	0.1	0.26
(1,3346)	1:177:A:MET:HE1	1:183:A:ILE:HD11	19	0.27	0.1	0.26
(1,3346)	1:177:A:MET:HE1	1:183:A:ILE:HD12	19	0.27	0.1	0.26
(1,3346)	1:177:A:MET:HE1	1:183:A:ILE:HD13	19	0.27	0.1	0.26
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	19	0.26	0.03	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	19	0.24	0.04	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	19	0.24	0.04	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	19	0.24	0.04	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	19	0.24	0.04	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	19	0.24	0.04	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	19	0.24	0.04	0.23
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	19	0.23	0.11	0.2
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	19	0.23	0.11	0.2
(1,5496)	1:20:A:TRP:HE1	1:62:A:VAL:HB	19	0.23	0.11	0.2
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	19	0.2	0.08	0.18
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	19	0.2	0.08	0.18
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	19	0.19	0.06	0.2
(1,2457)	1:90:A:VAL:HG23	1:94:A:TRP:HZ3	18	1.02	0.34	0.96
(1,2457)	1:90:A:VAL:HG21	1:94:A:TRP:HZ3	18	1.02	0.34	0.96
(1,2457)	1:90:A:VAL:HG13	1:94:A:TRP:HZ3	18	1.02	0.34	0.96
(1,2457)	1:90:A:VAL:HG12	1:94:A:TRP:HZ3	18	1.02	0.34	0.96
(1,2457)	1:90:A:VAL:HG22	1:94:A:TRP:HZ3	18	1.02	0.34	0.96
(1,2457)	1:90:A:VAL:HG11	1:94:A:TRP:HZ3	18	1.02	0.34	0.96
(1,2457)	1:90:A:VAL:HG23	1:66:A:ASN:H	18	1.02	0.34	0.96
(1,2459)	1:90:A:VAL:HG23	1:94:A:TRP:HZ3	18	1.02	0.34	0.96
(1,2459)	1:90:A:VAL:HG21	1:94:A:TRP:HZ3	18	1.02	0.34	0.96

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2459)	1:90:A:VAL:HG13	1:94:A:TRP:HZ3	18	1.02	0.34	0.96
(1,2459)	1:90:A:VAL:HG12	1:94:A:TRP:HZ3	18	1.02	0.34	0.96
(1,2459)	1:90:A:VAL:HG22	1:94:A:TRP:HZ3	18	1.02	0.34	0.96
(1,2459)	1:90:A:VAL:HG11	1:94:A:TRP:HZ3	18	1.02	0.34	0.96
(1,2459)	1:90:A:VAL:HG23	1:66:A:ASN:H	18	1.02	0.34	0.96
(1,2534)	1:101:A:ILE:HG22	1:105:A:SER:HA	18	0.77	0.24	0.8
(1,2534)	1:101:A:ILE:HG22	1:140:A:PRO:HA	18	0.77	0.24	0.8
(1,2534)	1:101:A:ILE:HG21	1:140:A:PRO:HA	18	0.77	0.24	0.8
(1,2534)	1:101:A:ILE:HG23	1:105:A:SER:HA	18	0.77	0.24	0.8
(1,2534)	1:101:A:ILE:HG23	1:140:A:PRO:HA	18	0.77	0.24	0.8
(1,2534)	1:101:A:ILE:HG21	1:105:A:SER:HA	18	0.77	0.24	0.8
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB2	18	0.72	0.11	0.75
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB3	18	0.72	0.11	0.75
(1,2696)	1:181:A:ILE:HB	1:183:A:ILE:HB	18	0.72	0.11	0.75
(1,2375)	1:60:A:LYS:HD3	1:61:A:GLU:H	18	0.57	0.24	0.48
(1,2375)	1:60:A:LYS:HD3	1:11:A:VAL:H	18	0.57	0.24	0.48
(1,2375)	1:60:A:LYS:HD2	1:61:A:GLU:H	18	0.57	0.24	0.48
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	18	0.46	0.12	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	18	0.46	0.12	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	18	0.46	0.12	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	18	0.46	0.12	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	18	0.46	0.12	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	18	0.46	0.12	0.47
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	18	0.46	0.19	0.38
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	18	0.46	0.19	0.38
(1,3144)	1:20:A:TRP:HD1	1:16:A:GLU:HG2	18	0.46	0.19	0.38
(1,3144)	1:20:A:TRP:HD1	1:16:A:GLU:HG3	18	0.46	0.19	0.38
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	18	0.36	0.15	0.3
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	18	0.36	0.15	0.3
(1,4907)	1:20:A:TRP:HE1	1:78:A:LEU:HB2	18	0.36	0.15	0.3
(1,4907)	1:20:A:TRP:HE1	1:78:A:LEU:HB3	18	0.36	0.15	0.3
(1,5578)	1:153:A:LEU:HA	1:157:A:VAL:H	18	0.32	0.08	0.3
(1,5578)	1:38:A:LYS:HA	1:40:A:GLN:H	18	0.32	0.08	0.3
(1,2988)	1:86:A:LYS:HG3	1:86:A:LYS:HA	18	0.23	0.05	0.24
(1,2988)	1:89:A:VAL:HB	1:86:A:LYS:HA	18	0.23	0.05	0.24
(1,2988)	1:86:A:LYS:HG2	1:86:A:LYS:HA	18	0.23	0.05	0.24
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	18	0.2	0.09	0.16
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	18	0.2	0.09	0.16
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	18	0.14	0.03	0.13
(1,2535)	1:101:A:ILE:HD11	1:97:A:ASP:HA	17	0.61	0.24	0.71
(1,2535)	1:101:A:ILE:HD13	1:97:A:ASP:HA	17	0.61	0.24	0.71
(1,2535)	1:101:A:ILE:HD12	1:97:A:ASP:HA	17	0.61	0.24	0.71

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2535)	1:101:A:ILE:HD12	1:96:A:MET:HA	17	0.61	0.24	0.71
(1,2535)	1:101:A:ILE:HD11	1:96:A:MET:HA	17	0.61	0.24	0.71
(1,5803)	1:18:A:THR:HG21	1:16:A:GLU:HB2	17	0.52	0.14	0.51
(1,5803)	1:18:A:THR:HG21	1:16:A:GLU:HB3	17	0.52	0.14	0.51
(1,5803)	1:18:A:THR:HG22	1:16:A:GLU:HB2	17	0.52	0.14	0.51
(1,5803)	1:18:A:THR:HG22	1:16:A:GLU:HB3	17	0.52	0.14	0.51
(1,5803)	1:18:A:THR:HG23	1:16:A:GLU:HB2	17	0.52	0.14	0.51
(1,5803)	1:18:A:THR:HG23	1:16:A:GLU:HB3	17	0.52	0.14	0.51
(1,5803)	1:152:A:LYS:HD2	1:113:A:GLU:HB2	17	0.52	0.14	0.51
(1,5803)	1:152:A:LYS:HD2	1:113:A:GLU:HB3	17	0.52	0.14	0.51
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB2	17	0.41	0.14	0.42
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB3	17	0.41	0.14	0.42
(1,5475)	1:197:A:ARG:H	1:193:A:LYS:HE2	17	0.41	0.14	0.42
(1,5475)	1:197:A:ARG:H	1:193:A:LYS:HE3	17	0.41	0.14	0.42
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	17	0.4	0.14	0.4
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	17	0.4	0.14	0.4
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	17	0.4	0.14	0.4
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG2	17	0.39	0.09	0.44
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG3	17	0.39	0.09	0.44
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG2	17	0.39	0.09	0.44
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG3	17	0.39	0.09	0.44
(1,2385)	1:34:A:ILE:HB	1:52:A:TYR:H	17	0.36	0.17	0.31
(1,2385)	1:34:A:ILE:HB	1:53:A:SER:H	17	0.36	0.17	0.31
(1,2766)	1:55:A:ALA:HB1	1:54:A:ILE:HG21	17	0.36	0.23	0.3
(1,2766)	1:55:A:ALA:HB1	1:54:A:ILE:HG22	17	0.36	0.23	0.3
(1,2766)	1:55:A:ALA:HB1	1:54:A:ILE:HG23	17	0.36	0.23	0.3
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG21	17	0.36	0.23	0.3
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG22	17	0.36	0.23	0.3
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG23	17	0.36	0.23	0.3
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG21	17	0.36	0.23	0.3
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG22	17	0.36	0.23	0.3
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG23	17	0.36	0.23	0.3
(1,2479)	1:194:A:THR:HG23	1:190:A:TYR:HD1	17	0.35	0.1	0.36
(1,2479)	1:194:A:THR:HG23	1:190:A:TYR:HD2	17	0.35	0.1	0.36
(1,2479)	1:194:A:THR:HG21	1:190:A:TYR:HD1	17	0.35	0.1	0.36
(1,2479)	1:194:A:THR:HG21	1:190:A:TYR:HD2	17	0.35	0.1	0.36
(1,2479)	1:194:A:THR:HG22	1:190:A:TYR:HD1	17	0.35	0.1	0.36
(1,2479)	1:194:A:THR:HG22	1:190:A:TYR:HD2	17	0.35	0.1	0.36
(1,2479)	1:194:A:THR:HG23	1:199:A:TYR:HD1	17	0.35	0.1	0.36
(1,2479)	1:194:A:THR:HG23	1:199:A:TYR:HD2	17	0.35	0.1	0.36
(1,2479)	1:194:A:THR:HG21	1:199:A:TYR:HD1	17	0.35	0.1	0.36
(1,2479)	1:194:A:THR:HG21	1:199:A:TYR:HD2	17	0.35	0.1	0.36

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2826)	1:59:A:ILE:HB	1:9:A:VAL:HB	17	0.35	0.18	0.3
(1,2826)	1:59:A:ILE:HB	1:61:A:GLU:HG2	17	0.35	0.18	0.3
(1,2826)	1:59:A:ILE:HB	1:61:A:GLU:HG3	17	0.35	0.18	0.3
(1,113)	1:176:A:TYR:HD1	1:182:A:PRO:HA	17	0.3	0.11	0.31
(1,113)	1:176:A:TYR:HD2	1:182:A:PRO:HA	17	0.3	0.11	0.31
(1,2975)	1:179:A:LEU:HD12	1:176:A:TYR:HA	17	0.28	0.11	0.23
(1,2975)	1:179:A:LEU:HD21	1:176:A:TYR:HA	17	0.28	0.11	0.23
(1,2975)	1:65:A:LEU:HD22	1:82:A:SER:HA	17	0.28	0.11	0.23
(1,2975)	1:179:A:LEU:HD22	1:176:A:TYR:HA	17	0.28	0.11	0.23
(1,2975)	1:179:A:LEU:HD11	1:176:A:TYR:HA	17	0.28	0.11	0.23
(1,2975)	1:179:A:LEU:HD13	1:176:A:TYR:HA	17	0.28	0.11	0.23
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB2	16	0.48	0.16	0.48
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB3	16	0.48	0.16	0.48
(1,2970)	1:68:A:PRO:HG2	1:70:A:SER:HB2	16	0.48	0.16	0.48
(1,2970)	1:68:A:PRO:HG2	1:70:A:SER:HB3	16	0.48	0.16	0.48
(1,3037)	1:146:A:LYS:HG2	1:182:A:PRO:HD2	16	0.37	0.11	0.4
(1,3037)	1:146:A:LYS:HG2	1:182:A:PRO:HD3	16	0.37	0.11	0.4
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD2	16	0.37	0.11	0.4
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD3	16	0.37	0.11	0.4
(1,5053)	1:78:A:LEU:H	1:75:A:LYS:HD2	16	0.36	0.15	0.34
(1,5053)	1:78:A:LEU:H	1:75:A:LYS:HD3	16	0.36	0.15	0.34
(1,5053)	1:78:A:LEU:H	1:80:A:LYS:HG2	16	0.36	0.15	0.34
(1,5053)	1:78:A:LEU:H	1:80:A:LYS:HG3	16	0.36	0.15	0.34
(1,5053)	1:78:A:LEU:H	1:72:A:LEU:HB2	16	0.36	0.15	0.34
(1,5053)	1:78:A:LEU:H	1:72:A:LEU:HB3	16	0.36	0.15	0.34
(1,5053)	1:78:A:LEU:H	1:64:A:ILE:HG12	16	0.36	0.15	0.34
(1,5053)	1:78:A:LEU:H	1:64:A:ILE:HG13	16	0.36	0.15	0.34
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	16	0.36	0.09	0.32
(1,2685)	1:67:A:LEU:HD12	1:71:A:GLU:HB2	16	0.34	0.22	0.27
(1,2685)	1:67:A:LEU:HD12	1:71:A:GLU:HB3	16	0.34	0.22	0.27
(1,2685)	1:67:A:LEU:HD13	1:71:A:GLU:HB2	16	0.34	0.22	0.27
(1,2685)	1:67:A:LEU:HD13	1:71:A:GLU:HB3	16	0.34	0.22	0.27
(1,2685)	1:67:A:LEU:HD11	1:71:A:GLU:HB2	16	0.34	0.22	0.27
(1,2685)	1:67:A:LEU:HD11	1:71:A:GLU:HB3	16	0.34	0.22	0.27
(1,2685)	1:67:A:LEU:HD21	1:71:A:GLU:HB2	16	0.34	0.22	0.27
(1,2685)	1:67:A:LEU:HD21	1:71:A:GLU:HB3	16	0.34	0.22	0.27
(1,2643)	1:187:A:ALA:HB3	1:190:A:TYR:HB2	16	0.3	0.1	0.29
(1,2643)	1:187:A:ALA:HB3	1:190:A:TYR:HB3	16	0.3	0.1	0.29
(1,2643)	1:187:A:ALA:HB2	1:190:A:TYR:HB2	16	0.3	0.1	0.29
(1,2643)	1:187:A:ALA:HB2	1:190:A:TYR:HB3	16	0.3	0.1	0.29
(1,2643)	1:187:A:ALA:HB1	1:190:A:TYR:HB2	16	0.3	0.1	0.29
(1,2643)	1:187:A:ALA:HB1	1:190:A:TYR:HB3	16	0.3	0.1	0.29

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG21	16	0.26	0.05	0.26
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG22	16	0.26	0.05	0.26
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG23	16	0.26	0.05	0.26
(1,5008)	1:64:A:ILE:H	1:65:A:LEU:HD11	16	0.26	0.05	0.26
(1,5008)	1:64:A:ILE:H	1:65:A:LEU:HD12	16	0.26	0.05	0.26
(1,5008)	1:64:A:ILE:H	1:65:A:LEU:HD13	16	0.26	0.05	0.26
(1,5008)	1:64:A:ILE:H	1:65:A:LEU:HD21	16	0.26	0.05	0.26
(1,5008)	1:64:A:ILE:H	1:65:A:LEU:HD22	16	0.26	0.05	0.26
(1,5008)	1:64:A:ILE:H	1:65:A:LEU:HD23	16	0.26	0.05	0.26
(1,4970)	1:64:A:ILE:H	1:65:A:LEU:HA	16	0.25	0.09	0.25
(1,4970)	1:64:A:ILE:H	1:62:A:VAL:HA	16	0.25	0.09	0.25
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	16	0.23	0.06	0.21
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	16	0.23	0.06	0.21
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	16	0.23	0.06	0.21
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	16	0.23	0.06	0.21
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	16	0.23	0.06	0.21
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	16	0.23	0.06	0.21
(1,5788)	1:98:A:ILE:HD12	1:121:A:ASN:HA	15	0.64	0.29	0.57
(1,5788)	1:98:A:ILE:HD12	1:105:A:SER:HA	15	0.64	0.29	0.57
(1,5788)	1:98:A:ILE:HD13	1:105:A:SER:HA	15	0.64	0.29	0.57
(1,5788)	1:98:A:ILE:HD11	1:105:A:SER:HA	15	0.64	0.29	0.57
(1,5788)	1:98:A:ILE:HD13	1:97:A:ASP:HA	15	0.64	0.29	0.57
(1,5788)	1:98:A:ILE:HD13	1:121:A:ASN:HA	15	0.64	0.29	0.57
(1,5788)	1:98:A:ILE:HD11	1:97:A:ASP:HA	15	0.64	0.29	0.57
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG11	15	0.58	0.18	0.62
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG12	15	0.58	0.18	0.62
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG13	15	0.58	0.18	0.62
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG21	15	0.58	0.18	0.62
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG22	15	0.58	0.18	0.62
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG23	15	0.58	0.18	0.62
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG11	15	0.58	0.18	0.62
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG12	15	0.58	0.18	0.62
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG13	15	0.58	0.18	0.62
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG21	15	0.58	0.18	0.62
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG22	15	0.58	0.18	0.62
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG23	15	0.58	0.18	0.62
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG21	15	0.58	0.18	0.62
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG22	15	0.58	0.18	0.62
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG23	15	0.58	0.18	0.62
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD2	15	0.48	0.25	0.5
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD3	15	0.48	0.25	0.5
(1,2828)	1:137:A:ILE:HB	1:101:A:ILE:HA	15	0.48	0.25	0.5

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2571)	1:130:A:MET:HE2	1:136:A:PRO:HA	15	0.48	0.17	0.44
(1,2571)	1:130:A:MET:HE3	1:136:A:PRO:HA	15	0.48	0.17	0.44
(1,2571)	1:130:A:MET:HE1	1:198:A:LYS:HA	15	0.48	0.17	0.44
(1,2571)	1:130:A:MET:HE1	1:136:A:PRO:HA	15	0.48	0.17	0.44
(1,2571)	1:130:A:MET:HE3	1:198:A:LYS:HA	15	0.48	0.17	0.44
(1,2571)	1:130:A:MET:HE2	1:198:A:LYS:HA	15	0.48	0.17	0.44
(1,2578)	1:64:A:ILE:HD13	1:62:A:VAL:HA	15	0.45	0.19	0.4
(1,2578)	1:64:A:ILE:HD12	1:62:A:VAL:HA	15	0.45	0.19	0.4
(1,2578)	1:64:A:ILE:HD11	1:62:A:VAL:HA	15	0.45	0.19	0.4
(1,2577)	1:166:A:ILE:HD11	1:160:A:GLN:HA	15	0.42	0.26	0.33
(1,2577)	1:166:A:ILE:HD12	1:160:A:GLN:HA	15	0.42	0.26	0.33
(1,2577)	1:166:A:ILE:HD13	1:160:A:GLN:HA	15	0.42	0.26	0.33
(1,2577)	1:166:A:ILE:HD12	1:161:A:GLY:HA2	15	0.42	0.26	0.33
(1,2577)	1:166:A:ILE:HD12	1:161:A:GLY:HA3	15	0.42	0.26	0.33
(1,2699)	1:8:A:VAL:HG21	1:85:A:LEU:HG	15	0.4	0.13	0.44
(1,2699)	1:8:A:VAL:HG22	1:85:A:LEU:HG	15	0.4	0.13	0.44
(1,2699)	1:8:A:VAL:HG23	1:85:A:LEU:HG	15	0.4	0.13	0.44
(1,2699)	1:8:A:VAL:HG12	1:85:A:LEU:HB2	15	0.4	0.13	0.44
(1,2699)	1:8:A:VAL:HG12	1:85:A:LEU:HB3	15	0.4	0.13	0.44
(1,2699)	1:8:A:VAL:HG11	1:85:A:LEU:HB2	15	0.4	0.13	0.44
(1,2699)	1:8:A:VAL:HG11	1:85:A:LEU:HB3	15	0.4	0.13	0.44
(1,2699)	1:8:A:VAL:HG13	1:85:A:LEU:HB2	15	0.4	0.13	0.44
(1,2699)	1:8:A:VAL:HG13	1:85:A:LEU:HB3	15	0.4	0.13	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD11	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD12	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD13	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD21	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD22	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD23	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD11	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD12	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD13	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD21	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD22	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD23	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD11	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD12	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD13	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD21	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD22	15	0.39	0.14	0.44
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD23	15	0.39	0.14	0.44
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB2	15	0.35	0.07	0.37

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB3	15	0.35	0.07	0.37
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB2	15	0.35	0.07	0.37
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB3	15	0.35	0.07	0.37
(1,3177)	1:122:A:PHE:HD1	1:203:A:PHE:HB2	15	0.35	0.07	0.37
(1,3177)	1:122:A:PHE:HD1	1:203:A:PHE:HB3	15	0.35	0.07	0.37
(1,3177)	1:122:A:PHE:HD2	1:203:A:PHE:HB2	15	0.35	0.07	0.37
(1,3177)	1:122:A:PHE:HD2	1:203:A:PHE:HB3	15	0.35	0.07	0.37
(1,4975)	1:75:A:LYS:H	1:74:A:THR:HB	15	0.34	0.09	0.34
(1,4975)	1:75:A:LYS:H	1:73:A:SER:HA	15	0.34	0.09	0.34
(1,5394)	1:59:A:ILE:H	1:56:A:ARG:H	15	0.3	0.09	0.29
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG11	15	0.25	0.08	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG12	15	0.25	0.08	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG13	15	0.25	0.08	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG21	15	0.25	0.08	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG22	15	0.25	0.08	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG23	15	0.25	0.08	0.24
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG2	15	0.24	0.09	0.23
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG3	15	0.24	0.09	0.23
(1,5848)	1:71:A:GLU:HB3	1:72:A:LEU:HG	15	0.18	0.09	0.14
(1,5848)	1:113:A:GLU:HB3	1:114:A:LEU:HG	15	0.18	0.09	0.14
(1,5848)	1:113:A:GLU:HB2	1:114:A:LEU:HG	15	0.18	0.09	0.14
(1,2973)	1:166:A:ILE:HB	1:166:A:ILE:HA	15	0.18	0.04	0.18
(1,2973)	1:85:A:LEU:HB2	1:82:A:SER:HA	15	0.18	0.04	0.18
(1,4911)	1:172:A:TRP:HE1	1:166:A:ILE:HA	15	0.13	0.02	0.13
(1,2561)	1:65:A:LEU:HG	1:65:A:LEU:HA	15	0.12	0.03	0.11
(1,2561)	1:65:A:LEU:HG	1:86:A:LYS:HA	15	0.12	0.03	0.11
(1,2708)	1:137:A:ILE:HD12	1:140:A:PRO:HB2	14	0.66	0.23	0.6
(1,2708)	1:137:A:ILE:HD12	1:140:A:PRO:HB3	14	0.66	0.23	0.6
(1,2708)	1:137:A:ILE:HD11	1:139:A:LYS:HB2	14	0.66	0.23	0.6
(1,2708)	1:137:A:ILE:HD11	1:139:A:LYS:HB3	14	0.66	0.23	0.6
(1,2708)	1:137:A:ILE:HD13	1:140:A:PRO:HB2	14	0.66	0.23	0.6
(1,2708)	1:137:A:ILE:HD13	1:140:A:PRO:HB3	14	0.66	0.23	0.6
(1,2708)	1:137:A:ILE:HD12	1:139:A:LYS:HB2	14	0.66	0.23	0.6
(1,2708)	1:137:A:ILE:HD12	1:139:A:LYS:HB3	14	0.66	0.23	0.6
(1,2708)	1:137:A:ILE:HD11	1:140:A:PRO:HB2	14	0.66	0.23	0.6
(1,2708)	1:137:A:ILE:HD11	1:140:A:PRO:HB3	14	0.66	0.23	0.6
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB2	14	0.48	0.25	0.44
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB3	14	0.48	0.25	0.44
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB2	14	0.48	0.25	0.44
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB3	14	0.48	0.25	0.44
(1,3516)	1:22:A:PRO:HG2	1:46:A:PHE:HB2	14	0.48	0.25	0.44
(1,3516)	1:22:A:PRO:HG2	1:46:A:PHE:HB3	14	0.48	0.25	0.44

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3516)	1:22:A:PRO:HG3	1:46:A:PHE:HB2	14	0.48	0.25	0.44
(1,3516)	1:22:A:PRO:HG3	1:46:A:PHE:HB3	14	0.48	0.25	0.44
(1,3516)	1:80:A:LYS:HD2	1:46:A:PHE:HB2	14	0.48	0.25	0.44
(1,3516)	1:80:A:LYS:HD2	1:46:A:PHE:HB3	14	0.48	0.25	0.44
(1,3516)	1:80:A:LYS:HD3	1:46:A:PHE:HB2	14	0.48	0.25	0.44
(1,3516)	1:80:A:LYS:HD3	1:46:A:PHE:HB3	14	0.48	0.25	0.44
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD1	14	0.39	0.15	0.34
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD2	14	0.39	0.15	0.34
(1,5386)	1:200:A:LEU:H	1:196:A:TYR:HE1	14	0.39	0.15	0.34
(1,5386)	1:200:A:LEU:H	1:196:A:TYR:HE2	14	0.39	0.15	0.34
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB2	14	0.36	0.2	0.3
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB3	14	0.36	0.2	0.3
(1,5322)	1:149:A:ASN:H	1:146:A:LYS:HG2	14	0.36	0.2	0.3
(1,5322)	1:149:A:ASN:H	1:146:A:LYS:HG3	14	0.36	0.2	0.3
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG2	14	0.34	0.1	0.35
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG3	14	0.34	0.1	0.35
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG2	14	0.34	0.1	0.35
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG3	14	0.34	0.1	0.35
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG2	14	0.34	0.1	0.35
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG3	14	0.34	0.1	0.35
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG2	14	0.34	0.1	0.35
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG3	14	0.34	0.1	0.35
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG2	14	0.34	0.1	0.35
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG3	14	0.34	0.1	0.35
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG2	14	0.34	0.1	0.35
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG3	14	0.34	0.1	0.35
(1,3442)	1:59:A:ILE:HG21	1:61:A:GLU:HG2	14	0.34	0.1	0.35
(1,3442)	1:59:A:ILE:HG21	1:61:A:GLU:HG3	14	0.34	0.1	0.35
(1,3442)	1:59:A:ILE:HG22	1:61:A:GLU:HG2	14	0.34	0.1	0.35
(1,3442)	1:59:A:ILE:HG22	1:61:A:GLU:HG3	14	0.34	0.1	0.35
(1,3442)	1:59:A:ILE:HG23	1:61:A:GLU:HG2	14	0.34	0.1	0.35
(1,3442)	1:59:A:ILE:HG23	1:61:A:GLU:HG3	14	0.34	0.1	0.35
(1,2389)	1:42:A:LEU:HG	1:52:A:TYR:H	14	0.3	0.13	0.25
(1,2389)	1:42:A:LEU:HG	1:36:A:VAL:H	14	0.3	0.13	0.25
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD21	14	0.2	0.05	0.2
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD22	14	0.2	0.05	0.2
(1,5690)	1:65:A:LEU:HA	1:66:A:ASN:HD21	14	0.2	0.05	0.2
(1,5690)	1:65:A:LEU:HA	1:66:A:ASN:HD22	14	0.2	0.05	0.2
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE2	14	0.18	0.08	0.16
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE3	14	0.18	0.08	0.16
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE2	14	0.18	0.08	0.16
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE3	14	0.18	0.08	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE2	14	0.18	0.08	0.16
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE3	14	0.18	0.08	0.16
(1,3390)	1:83:A:ILE:HG12	1:86:A:LYS:HE2	14	0.18	0.08	0.16
(1,3390)	1:83:A:ILE:HG12	1:86:A:LYS:HE3	14	0.18	0.08	0.16
(1,3390)	1:83:A:ILE:HG13	1:86:A:LYS:HE2	14	0.18	0.08	0.16
(1,3390)	1:83:A:ILE:HG13	1:86:A:LYS:HE3	14	0.18	0.08	0.16
(1,2546)	1:222:A:LEU:HG	1:222:A:LEU:HA	14	0.15	0.05	0.13
(1,2692)	1:195:A:ALA:HB2	1:153:A:LEU:HG	13	0.89	0.3	1.04
(1,2692)	1:195:A:ALA:HB1	1:153:A:LEU:HG	13	0.89	0.3	1.04
(1,2692)	1:195:A:ALA:HB3	1:153:A:LEU:HG	13	0.89	0.3	1.04
(1,2692)	1:195:A:ALA:HB1	1:150:A:LEU:HB2	13	0.89	0.3	1.04
(1,2692)	1:195:A:ALA:HB1	1:150:A:LEU:HB3	13	0.89	0.3	1.04
(1,2692)	1:195:A:ALA:HB3	1:150:A:LEU:HB2	13	0.89	0.3	1.04
(1,2692)	1:195:A:ALA:HB3	1:150:A:LEU:HB3	13	0.89	0.3	1.04
(1,2692)	1:195:A:ALA:HB2	1:150:A:LEU:HB2	13	0.89	0.3	1.04
(1,2692)	1:195:A:ALA:HB2	1:150:A:LEU:HB3	13	0.89	0.3	1.04
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB2	13	0.65	0.24	0.72
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB3	13	0.65	0.24	0.72
(1,2649)	1:64:A:ILE:HD11	1:63:A:ASP:HB2	13	0.65	0.24	0.72
(1,2649)	1:64:A:ILE:HD11	1:63:A:ASP:HB3	13	0.65	0.24	0.72
(1,2649)	1:64:A:ILE:HD12	1:63:A:ASP:HB2	13	0.65	0.24	0.72
(1,2649)	1:64:A:ILE:HD12	1:63:A:ASP:HB3	13	0.65	0.24	0.72
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB2	13	0.37	0.05	0.37
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB3	13	0.37	0.05	0.37
(1,5366)	1:79:A:GLN:HE22	1:82:A:SER:HB2	13	0.37	0.05	0.37
(1,5366)	1:79:A:GLN:HE22	1:82:A:SER:HB3	13	0.37	0.05	0.37
(1,2841)	1:166:A:ILE:HD11	1:157:A:VAL:H	13	0.33	0.22	0.26
(1,2841)	1:166:A:ILE:HD12	1:157:A:VAL:H	13	0.33	0.22	0.26
(1,2841)	1:166:A:ILE:HD11	1:159:A:HIS:H	13	0.33	0.22	0.26
(1,2841)	1:166:A:ILE:HD13	1:157:A:VAL:H	13	0.33	0.22	0.26
(1,2841)	1:166:A:ILE:HD11	1:175:A:ILE:H	13	0.33	0.22	0.26
(1,2474)	1:101:A:ILE:HD13	1:127:A:TYR:HD1	13	0.32	0.15	0.32
(1,2474)	1:101:A:ILE:HD13	1:127:A:TYR:HD2	13	0.32	0.15	0.32
(1,2474)	1:101:A:ILE:HD12	1:127:A:TYR:HD1	13	0.32	0.15	0.32
(1,2474)	1:101:A:ILE:HD12	1:127:A:TYR:HD2	13	0.32	0.15	0.32
(1,2474)	1:101:A:ILE:HD13	1:101:A:ILE:H	13	0.32	0.15	0.32
(1,2474)	1:101:A:ILE:HD11	1:127:A:TYR:HD1	13	0.32	0.15	0.32
(1,2474)	1:101:A:ILE:HD11	1:127:A:TYR:HD2	13	0.32	0.15	0.32
(1,3051)	1:34:A:ILE:HG22	1:53:A:SER:HA	13	0.28	0.09	0.27
(1,3051)	1:43:A:VAL:HG23	1:53:A:SER:HA	13	0.28	0.09	0.27
(1,3051)	1:34:A:ILE:HG23	1:53:A:SER:HA	13	0.28	0.09	0.27
(1,3051)	1:34:A:ILE:HG21	1:53:A:SER:HA	13	0.28	0.09	0.27

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG12	13	0.27	0.08	0.26
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG13	13	0.27	0.08	0.26
(1,2327)	1:160:A:GLN:HA	1:157:A:VAL:HA	13	0.22	0.08	0.23
(1,2868)	1:157:A:VAL:HA	1:160:A:GLN:HA	13	0.22	0.08	0.23
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB2	13	0.21	0.04	0.21
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB3	13	0.21	0.04	0.21
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB2	13	0.21	0.04	0.21
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB3	13	0.21	0.04	0.21
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB2	13	0.21	0.04	0.21
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB3	13	0.21	0.04	0.21
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB2	13	0.21	0.04	0.21
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB3	13	0.21	0.04	0.21
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB2	13	0.21	0.04	0.21
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB3	13	0.21	0.04	0.21
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB2	13	0.21	0.04	0.21
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB3	13	0.21	0.04	0.21
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG2	13	0.17	0.08	0.13
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG3	13	0.17	0.08	0.13
(1,5292)	1:18:A:THR:H	1:19:A:GLU:HG2	13	0.17	0.08	0.13
(1,5292)	1:18:A:THR:H	1:19:A:GLU:HG3	13	0.17	0.08	0.13
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB2	13	0.15	0.04	0.14
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB3	13	0.15	0.04	0.14
(1,5283)	1:15:A:THR:H	1:15:A:THR:HA	13	0.12	0.01	0.13
(1,5812)	1:64:A:ILE:HD12	1:8:A:VAL:HB	12	0.76	0.19	0.8
(1,5812)	1:9:A:VAL:HG13	1:8:A:VAL:HB	12	0.76	0.19	0.8
(1,5812)	1:9:A:VAL:HG21	1:8:A:VAL:HB	12	0.76	0.19	0.8
(1,5812)	1:64:A:ILE:HD13	1:8:A:VAL:HB	12	0.76	0.19	0.8
(1,5812)	1:64:A:ILE:HD11	1:8:A:VAL:HB	12	0.76	0.19	0.8
(1,5812)	1:9:A:VAL:HG11	1:8:A:VAL:HB	12	0.76	0.19	0.8
(1,5812)	1:9:A:VAL:HG12	1:8:A:VAL:HB	12	0.76	0.19	0.8
(1,5812)	1:9:A:VAL:HG22	1:8:A:VAL:HB	12	0.76	0.19	0.8
(1,3435)	1:12:A:VAL:HG12	1:60:A:LYS:HE2	12	0.71	0.14	0.66
(1,3435)	1:12:A:VAL:HG12	1:60:A:LYS:HE3	12	0.71	0.14	0.66
(1,3435)	1:12:A:VAL:HG23	1:60:A:LYS:HE2	12	0.71	0.14	0.66
(1,3435)	1:12:A:VAL:HG23	1:60:A:LYS:HE3	12	0.71	0.14	0.66
(1,3435)	1:12:A:VAL:HG21	1:60:A:LYS:HE2	12	0.71	0.14	0.66
(1,3435)	1:12:A:VAL:HG21	1:60:A:LYS:HE3	12	0.71	0.14	0.66
(1,3435)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	12	0.71	0.14	0.66
(1,3435)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	12	0.71	0.14	0.66
(1,3435)	1:12:A:VAL:HG13	1:60:A:LYS:HE2	12	0.71	0.14	0.66
(1,3435)	1:12:A:VAL:HG13	1:60:A:LYS:HE3	12	0.71	0.14	0.66
(1,3436)	1:12:A:VAL:HG12	1:60:A:LYS:HE2	12	0.71	0.14	0.66

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3436)	1:12:A:VAL:HG12	1:60:A:LYS:HE3	12	0.71	0.14	0.66
(1,3436)	1:12:A:VAL:HG23	1:60:A:LYS:HE2	12	0.71	0.14	0.66
(1,3436)	1:12:A:VAL:HG23	1:60:A:LYS:HE3	12	0.71	0.14	0.66
(1,3436)	1:12:A:VAL:HG21	1:60:A:LYS:HE2	12	0.71	0.14	0.66
(1,3436)	1:12:A:VAL:HG21	1:60:A:LYS:HE3	12	0.71	0.14	0.66
(1,3436)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	12	0.71	0.14	0.66
(1,3436)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	12	0.71	0.14	0.66
(1,3436)	1:12:A:VAL:HG13	1:60:A:LYS:HE2	12	0.71	0.14	0.66
(1,3436)	1:12:A:VAL:HG13	1:60:A:LYS:HE3	12	0.71	0.14	0.66
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD21	12	0.35	0.14	0.4
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD22	12	0.35	0.14	0.4
(1,168)	1:190:A:TYR:HE1	1:191:A:ASN:HD21	12	0.35	0.14	0.4
(1,168)	1:190:A:TYR:HE1	1:191:A:ASN:HD22	12	0.35	0.14	0.4
(1,2636)	1:65:A:LEU:HD13	1:66:A:ASN:HB2	12	0.34	0.2	0.38
(1,2636)	1:65:A:LEU:HD13	1:66:A:ASN:HB3	12	0.34	0.2	0.38
(1,2636)	1:65:A:LEU:HD11	1:66:A:ASN:HB2	12	0.34	0.2	0.38
(1,2636)	1:65:A:LEU:HD11	1:66:A:ASN:HB3	12	0.34	0.2	0.38
(1,2636)	1:65:A:LEU:HD21	1:63:A:ASP:HB2	12	0.34	0.2	0.38
(1,2636)	1:65:A:LEU:HD21	1:63:A:ASP:HB3	12	0.34	0.2	0.38
(1,2636)	1:65:A:LEU:HD11	1:63:A:ASP:HB2	12	0.34	0.2	0.38
(1,2636)	1:65:A:LEU:HD11	1:63:A:ASP:HB3	12	0.34	0.2	0.38
(1,2636)	1:65:A:LEU:HD22	1:63:A:ASP:HB2	12	0.34	0.2	0.38
(1,2636)	1:65:A:LEU:HD22	1:63:A:ASP:HB3	12	0.34	0.2	0.38
(1,2636)	1:65:A:LEU:HD13	1:63:A:ASP:HB2	12	0.34	0.2	0.38
(1,2636)	1:65:A:LEU:HD13	1:63:A:ASP:HB3	12	0.34	0.2	0.38
(1,5642)	1:143:A:LEU:HG	1:191:A:ASN:HD21	12	0.33	0.12	0.39
(1,5642)	1:143:A:LEU:HG	1:191:A:ASN:HD22	12	0.33	0.12	0.39
(1,5642)	1:187:A:ALA:HB2	1:191:A:ASN:HD21	12	0.33	0.12	0.39
(1,5642)	1:187:A:ALA:HB2	1:191:A:ASN:HD22	12	0.33	0.12	0.39
(1,5642)	1:187:A:ALA:HB1	1:191:A:ASN:HD21	12	0.33	0.12	0.39
(1,5642)	1:187:A:ALA:HB1	1:191:A:ASN:HD22	12	0.33	0.12	0.39
(1,5642)	1:187:A:ALA:HB3	1:191:A:ASN:HD21	12	0.33	0.12	0.39
(1,5642)	1:187:A:ALA:HB3	1:191:A:ASN:HD22	12	0.33	0.12	0.39
(1,4908)	1:20:A:TRP:HE1	1:60:A:LYS:HD2	12	0.28	0.16	0.21
(1,4908)	1:20:A:TRP:HE1	1:60:A:LYS:HD3	12	0.28	0.16	0.21
(1,4908)	1:20:A:TRP:HE1	1:75:A:LYS:HD2	12	0.28	0.16	0.21
(1,4908)	1:20:A:TRP:HE1	1:75:A:LYS:HD3	12	0.28	0.16	0.21
(1,2917)	1:196:A:TYR:HA	1:201:A:TYR:H	12	0.26	0.08	0.26
(1,2917)	1:196:A:TYR:HA	1:195:A:ALA:H	12	0.26	0.08	0.26
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB2	12	0.22	0.1	0.2
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB3	12	0.22	0.1	0.2
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB2	12	0.21	0.06	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB3	12	0.21	0.06	0.2
(1,5203)	1:200:A:LEU:H	1:195:A:ALA:HB1	12	0.21	0.06	0.2
(1,5203)	1:200:A:LEU:H	1:195:A:ALA:HB2	12	0.21	0.06	0.2
(1,5203)	1:200:A:LEU:H	1:195:A:ALA:HB3	12	0.21	0.06	0.2
(1,3381)	1:72:A:LEU:HB2	1:79:A:GLN:HG2	12	0.2	0.08	0.18
(1,3381)	1:72:A:LEU:HB2	1:79:A:GLN:HG3	12	0.2	0.08	0.18
(1,3381)	1:72:A:LEU:HB3	1:79:A:GLN:HG2	12	0.2	0.08	0.18
(1,3381)	1:72:A:LEU:HB3	1:79:A:GLN:HG3	12	0.2	0.08	0.18
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG2	12	0.2	0.08	0.18
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG3	12	0.2	0.08	0.18
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG2	12	0.2	0.08	0.18
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG3	12	0.2	0.08	0.18
(1,3490)	1:16:A:GLU:H	1:14:A:ALA:HA	12	0.2	0.05	0.19
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG12	12	0.19	0.08	0.15
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG13	12	0.19	0.08	0.15
(1,3274)	1:22:A:PRO:HD2	1:47:A:ILE:HG12	12	0.19	0.08	0.15
(1,3274)	1:22:A:PRO:HD2	1:47:A:ILE:HG13	12	0.19	0.08	0.15
(1,353)	1:145:A:TYR:HD1	1:145:A:TYR:HA	12	0.15	0.02	0.16
(1,353)	1:145:A:TYR:HD2	1:145:A:TYR:HA	12	0.15	0.02	0.16
(1,5474)	1:196:A:TYR:H	1:194:A:THR:HB	12	0.14	0.02	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG11	12	0.13	0.02	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG12	12	0.13	0.02	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG13	12	0.13	0.02	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG21	12	0.13	0.02	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG22	12	0.13	0.02	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG23	12	0.13	0.02	0.12
(1,4092)	1:175:A:ILE:HG21	1:159:A:HIS:H	12	0.12	0.02	0.12
(1,4092)	1:175:A:ILE:HG22	1:159:A:HIS:H	12	0.12	0.02	0.12
(1,4092)	1:175:A:ILE:HG23	1:159:A:HIS:H	12	0.12	0.02	0.12
(1,3048)	1:34:A:ILE:HB	1:51:A:PHE:HA	11	0.46	0.14	0.42
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB2	11	0.38	0.14	0.33
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB3	11	0.38	0.14	0.33
(1,2260)	1:101:A:ILE:HA	1:100:A:GLU:HG2	11	0.38	0.14	0.33
(1,2260)	1:101:A:ILE:HA	1:100:A:GLU:HG3	11	0.38	0.14	0.33
(1,2575)	1:64:A:ILE:HG23	1:78:A:LEU:HA	11	0.34	0.13	0.31
(1,2575)	1:64:A:ILE:HG21	1:78:A:LEU:HA	11	0.34	0.13	0.31
(1,2575)	1:64:A:ILE:HG22	1:78:A:LEU:HA	11	0.34	0.13	0.31
(1,2575)	1:64:A:ILE:HG21	1:82:A:SER:HA	11	0.34	0.13	0.31
(1,2400)	1:34:A:ILE:HD13	1:52:A:TYR:H	11	0.32	0.2	0.21
(1,2400)	1:34:A:ILE:HD11	1:52:A:TYR:H	11	0.32	0.2	0.21
(1,2400)	1:34:A:ILE:HD13	1:32:A:ASP:H	11	0.32	0.2	0.21
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB1	11	0.29	0.14	0.31

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB2	11	0.29	0.14	0.31
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB3	11	0.29	0.14	0.31
(1,5356)	1:48:A:ASP:H	1:44:A:ARG:HG2	11	0.29	0.14	0.31
(1,5356)	1:48:A:ASP:H	1:44:A:ARG:HG3	11	0.29	0.14	0.31
(1,2527)	1:142:A:VAL:HB	1:143:A:LEU:HA	11	0.24	0.07	0.22
(1,5522)	1:9:A:VAL:HG22	1:23:A:ALA:H	11	0.23	0.08	0.24
(1,5522)	1:9:A:VAL:HG23	1:23:A:ALA:H	11	0.23	0.08	0.24
(1,5522)	1:9:A:VAL:HG21	1:23:A:ALA:H	11	0.23	0.08	0.24
(1,5522)	1:64:A:ILE:HD12	1:23:A:ALA:H	11	0.23	0.08	0.24
(1,5522)	1:64:A:ILE:HD11	1:23:A:ALA:H	11	0.23	0.08	0.24
(1,120)	1:199:A:TYR:HE1	1:137:A:ILE:HG12	11	0.2	0.06	0.21
(1,120)	1:199:A:TYR:HE1	1:137:A:ILE:HG13	11	0.2	0.06	0.21
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD11	11	0.2	0.06	0.21
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD12	11	0.2	0.06	0.21
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD13	11	0.2	0.06	0.21
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD21	11	0.2	0.06	0.21
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD22	11	0.2	0.06	0.21
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD23	11	0.2	0.06	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD11	11	0.2	0.06	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD12	11	0.2	0.06	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD13	11	0.2	0.06	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD21	11	0.2	0.06	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD22	11	0.2	0.06	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD23	11	0.2	0.06	0.21
(1,2443)	1:83:A:ILE:HD13	1:83:A:ILE:H	11	0.19	0.07	0.15
(1,2443)	1:83:A:ILE:HD11	1:83:A:ILE:H	11	0.19	0.07	0.15
(1,2443)	1:83:A:ILE:HD12	1:83:A:ILE:H	11	0.19	0.07	0.15
(1,1868)	1:11:A:VAL:HA	1:59:A:ILE:HB	11	0.14	0.03	0.13
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG11	11	0.12	0.02	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG12	11	0.12	0.02	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG13	11	0.12	0.02	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG21	11	0.12	0.02	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG22	11	0.12	0.02	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG23	11	0.12	0.02	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG11	11	0.12	0.02	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG12	11	0.12	0.02	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG13	11	0.12	0.02	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG21	11	0.12	0.02	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG22	11	0.12	0.02	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG23	11	0.12	0.02	0.12
(1,2903)	1:11:A:VAL:HG13	1:54:A:ILE:HB	10	0.52	0.21	0.55
(1,2903)	1:11:A:VAL:HG23	1:54:A:ILE:HB	10	0.52	0.21	0.55

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2903)	1:11:A:VAL:HG11	1:54:A:ILE:HB	10	0.52	0.21	0.55
(1,2903)	1:11:A:VAL:HG12	1:54:A:ILE:HB	10	0.52	0.21	0.55
(1,2903)	1:11:A:VAL:HG22	1:54:A:ILE:HB	10	0.52	0.21	0.55
(1,5020)	1:85:A:LEU:H	1:88:A:ARG:HE	10	0.46	0.19	0.45
(1,5020)	1:85:A:LEU:H	1:46:A:PHE:HD1	10	0.46	0.19	0.45
(1,5020)	1:85:A:LEU:H	1:46:A:PHE:HD2	10	0.46	0.19	0.45
(1,2866)	1:210:A:ALA:HA	1:5:A:LEU:HB2	10	0.42	0.17	0.45
(1,2866)	1:210:A:ALA:HA	1:5:A:LEU:HB3	10	0.42	0.17	0.45
(1,2866)	1:210:A:ALA:HA	1:212:A:ILE:HG12	10	0.42	0.17	0.45
(1,2866)	1:210:A:ALA:HA	1:212:A:ILE:HG13	10	0.42	0.17	0.45
(1,3544)	1:97:A:ASP:HB3	1:99:A:SER:HA	10	0.42	0.2	0.38
(1,3544)	1:198:A:LYS:HE2	1:137:A:ILE:HA	10	0.42	0.2	0.38
(1,2403)	1:3:A:GLU:HB2	1:4:A:LEU:H	10	0.37	0.13	0.34
(1,2403)	1:3:A:GLU:HB3	1:4:A:LEU:H	10	0.37	0.13	0.34
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD2	10	0.3	0.1	0.29
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD3	10	0.3	0.1	0.29
(1,5466)	1:47:A:ILE:H	1:77:A:GLY:HA2	10	0.3	0.1	0.29
(1,5466)	1:47:A:ILE:H	1:77:A:GLY:HA3	10	0.3	0.1	0.29
(1,5602)	1:34:A:ILE:HG22	1:53:A:SER:H	10	0.29	0.11	0.29
(1,5602)	1:34:A:ILE:HG23	1:53:A:SER:H	10	0.29	0.11	0.29
(1,5602)	1:34:A:ILE:HG21	1:53:A:SER:H	10	0.29	0.11	0.29
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD11	10	0.29	0.12	0.26
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD12	10	0.29	0.12	0.26
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD13	10	0.29	0.12	0.26
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD21	10	0.29	0.12	0.26
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD22	10	0.29	0.12	0.26
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD23	10	0.29	0.12	0.26
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD11	10	0.29	0.12	0.26
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD12	10	0.29	0.12	0.26
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD13	10	0.29	0.12	0.26
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD21	10	0.29	0.12	0.26
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD22	10	0.29	0.12	0.26
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD23	10	0.29	0.12	0.26
(1,3477)	1:64:A:ILE:H	1:65:A:LEU:HB2	10	0.24	0.1	0.19
(1,3477)	1:64:A:ILE:H	1:65:A:LEU:HB3	10	0.24	0.1	0.19
(1,3477)	1:83:A:ILE:H	1:65:A:LEU:HB2	10	0.24	0.1	0.19
(1,3477)	1:83:A:ILE:H	1:65:A:LEU:HB3	10	0.24	0.1	0.19
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE1	10	0.19	0.04	0.18
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE2	10	0.19	0.04	0.18
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG21	10	0.16	0.04	0.16
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG22	10	0.16	0.04	0.16
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG23	10	0.16	0.04	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2606)	1:64:A:ILE:HD11	1:78:A:LEU:HA	9	0.83	0.38	0.94
(1,2606)	1:64:A:ILE:HD12	1:78:A:LEU:HA	9	0.83	0.38	0.94
(1,2606)	1:64:A:ILE:HD13	1:78:A:LEU:HA	9	0.83	0.38	0.94
(1,2606)	1:64:A:ILE:HD13	1:82:A:SER:HA	9	0.83	0.38	0.94
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG11	9	0.79	0.29	0.9
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG12	9	0.79	0.29	0.9
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG13	9	0.79	0.29	0.9
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG21	9	0.79	0.29	0.9
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG22	9	0.79	0.29	0.9
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG23	9	0.79	0.29	0.9
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD11	9	0.79	0.29	0.9
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD12	9	0.79	0.29	0.9
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD13	9	0.79	0.29	0.9
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD21	9	0.79	0.29	0.9
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD22	9	0.79	0.29	0.9
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD23	9	0.79	0.29	0.9
(1,2657)	1:12:A:VAL:HG23	1:60:A:LYS:HE2	9	0.69	0.09	0.67
(1,2657)	1:12:A:VAL:HG23	1:60:A:LYS:HE3	9	0.69	0.09	0.67
(1,2657)	1:12:A:VAL:HG21	1:60:A:LYS:HE2	9	0.69	0.09	0.67
(1,2657)	1:12:A:VAL:HG21	1:60:A:LYS:HE3	9	0.69	0.09	0.67
(1,2657)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	9	0.69	0.09	0.67
(1,2657)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	9	0.69	0.09	0.67
(1,2657)	1:12:A:VAL:HG23	1:58:A:ASP:HB2	9	0.69	0.09	0.67
(1,2657)	1:12:A:VAL:HG23	1:58:A:ASP:HB3	9	0.69	0.09	0.67
(1,2657)	1:12:A:VAL:HG12	1:58:A:ASP:HB2	9	0.69	0.09	0.67
(1,2657)	1:12:A:VAL:HG12	1:58:A:ASP:HB3	9	0.69	0.09	0.67
(1,3339)	1:7:A:LYS:HB3	1:5:A:LEU:HG	9	0.67	0.33	0.57
(1,3339)	1:123:A:LEU:HB3	1:150:A:LEU:HG	9	0.67	0.33	0.57
(1,5557)	1:128:A:LYS:HG2	1:95:A:LYS:H	9	0.63	0.18	0.69
(1,5557)	1:124:A:GLN:HB3	1:95:A:LYS:H	9	0.63	0.18	0.69
(1,5557)	1:197:A:ARG:HG2	1:201:A:TYR:H	9	0.63	0.18	0.69
(1,5557)	1:128:A:LYS:HG3	1:95:A:LYS:H	9	0.63	0.18	0.69
(1,5697)	1:139:A:LYS:HD3	1:138:A:ASN:HD21	9	0.46	0.17	0.4
(1,5697)	1:139:A:LYS:HD3	1:138:A:ASN:HD22	9	0.46	0.17	0.4
(1,5697)	1:124:A:GLN:HB2	1:121:A:ASN:HD21	9	0.46	0.17	0.4
(1,5697)	1:124:A:GLN:HB2	1:121:A:ASN:HD22	9	0.46	0.17	0.4
(1,5697)	1:124:A:GLN:HB3	1:121:A:ASN:HD21	9	0.46	0.17	0.4
(1,5697)	1:124:A:GLN:HB3	1:121:A:ASN:HD22	9	0.46	0.17	0.4
(1,5697)	1:139:A:LYS:HD2	1:138:A:ASN:HD21	9	0.46	0.17	0.4
(1,5697)	1:139:A:LYS:HD2	1:138:A:ASN:HD22	9	0.46	0.17	0.4
(1,2531)	1:142:A:VAL:HG13	1:147:A:ASP:HA	9	0.42	0.09	0.38
(1,2531)	1:142:A:VAL:HG11	1:147:A:ASP:HA	9	0.42	0.09	0.38

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2531)	1:142:A:VAL:HG22	1:143:A:LEU:HA	9	0.42	0.09	0.38
(1,2531)	1:142:A:VAL:HG23	1:143:A:LEU:HA	9	0.42	0.09	0.38
(1,2531)	1:142:A:VAL:HG21	1:143:A:LEU:HA	9	0.42	0.09	0.38
(1,2422)	1:126:A:LEU:HD23	1:130:A:MET:H	9	0.41	0.2	0.38
(1,2422)	1:126:A:LEU:HD21	1:130:A:MET:H	9	0.41	0.2	0.38
(1,2422)	1:126:A:LEU:HD11	1:130:A:MET:H	9	0.41	0.2	0.38
(1,2422)	1:126:A:LEU:HD12	1:130:A:MET:H	9	0.41	0.2	0.38
(1,2422)	1:126:A:LEU:HD21	1:125:A:GLN:H	9	0.41	0.2	0.38
(1,2422)	1:126:A:LEU:HD22	1:130:A:MET:H	9	0.41	0.2	0.38
(1,2422)	1:126:A:LEU:HD13	1:125:A:GLN:H	9	0.41	0.2	0.38
(1,2835)	1:126:A:LEU:HD23	1:130:A:MET:H	9	0.41	0.2	0.38
(1,2835)	1:126:A:LEU:HD21	1:130:A:MET:H	9	0.41	0.2	0.38
(1,2835)	1:126:A:LEU:HD11	1:130:A:MET:H	9	0.41	0.2	0.38
(1,2835)	1:126:A:LEU:HD12	1:130:A:MET:H	9	0.41	0.2	0.38
(1,2835)	1:126:A:LEU:HD21	1:125:A:GLN:H	9	0.41	0.2	0.38
(1,2835)	1:126:A:LEU:HD22	1:130:A:MET:H	9	0.41	0.2	0.38
(1,2835)	1:126:A:LEU:HD13	1:125:A:GLN:H	9	0.41	0.2	0.38
(1,2489)	1:87:A:THR:HG22	1:84:A:PHE:HD1	9	0.39	0.19	0.31
(1,2489)	1:87:A:THR:HG22	1:84:A:PHE:HD2	9	0.39	0.19	0.31
(1,2489)	1:87:A:THR:HG23	1:84:A:PHE:HD1	9	0.39	0.19	0.31
(1,2489)	1:87:A:THR:HG23	1:84:A:PHE:HD2	9	0.39	0.19	0.31
(1,2489)	1:87:A:THR:HG21	1:84:A:PHE:HD1	9	0.39	0.19	0.31
(1,2489)	1:87:A:THR:HG21	1:84:A:PHE:HD2	9	0.39	0.19	0.31
(1,2489)	1:87:A:THR:HG22	1:89:A:VAL:H	9	0.39	0.19	0.31
(1,2489)	1:87:A:THR:HG23	1:89:A:VAL:H	9	0.39	0.19	0.31
(1,5681)	1:94:A:TRP:HZ3	1:94:A:TRP:H	9	0.37	0.13	0.43
(1,5681)	1:44:A:ARG:HE	1:50:A:LYS:H	9	0.37	0.13	0.43
(1,183)	1:145:A:TYR:H	1:145:A:TYR:HE1	9	0.32	0.1	0.31
(1,183)	1:145:A:TYR:H	1:145:A:TYR:HE2	9	0.32	0.1	0.31
(1,183)	1:50:A:LYS:H	1:52:A:TYR:HE1	9	0.32	0.1	0.31
(1,183)	1:50:A:LYS:H	1:52:A:TYR:HE2	9	0.32	0.1	0.31
(1,2717)	1:130:A:MET:HE2	1:137:A:ILE:HB	9	0.31	0.13	0.28
(1,2717)	1:130:A:MET:HE3	1:133:A:ARG:HG2	9	0.31	0.13	0.28
(1,2717)	1:130:A:MET:HE3	1:133:A:ARG:HG3	9	0.31	0.13	0.28
(1,2717)	1:130:A:MET:HE1	1:198:A:LYS:HB2	9	0.31	0.13	0.28
(1,2717)	1:130:A:MET:HE1	1:198:A:LYS:HB3	9	0.31	0.13	0.28
(1,2717)	1:130:A:MET:HE3	1:198:A:LYS:HB2	9	0.31	0.13	0.28
(1,2717)	1:130:A:MET:HE3	1:198:A:LYS:HB3	9	0.31	0.13	0.28
(1,2717)	1:130:A:MET:HE1	1:133:A:ARG:HG2	9	0.31	0.13	0.28
(1,2717)	1:130:A:MET:HE1	1:133:A:ARG:HG3	9	0.31	0.13	0.28
(1,2717)	1:130:A:MET:HE2	1:133:A:ARG:HG2	9	0.31	0.13	0.28
(1,2717)	1:130:A:MET:HE2	1:133:A:ARG:HG3	9	0.31	0.13	0.28

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG21	9	0.26	0.06	0.29
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG22	9	0.26	0.06	0.29
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG23	9	0.26	0.06	0.29
(1,3161)	1:133:A:ARG:HE	1:135:A:THR:HG21	9	0.26	0.06	0.29
(1,3161)	1:133:A:ARG:HE	1:135:A:THR:HG22	9	0.26	0.06	0.29
(1,3161)	1:133:A:ARG:HE	1:135:A:THR:HG23	9	0.26	0.06	0.29
(1,5428)	1:23:A:ALA:H	1:20:A:TRP:HZ3	9	0.21	0.1	0.18
(1,5428)	1:23:A:ALA:H	1:46:A:PHE:HD1	9	0.21	0.1	0.18
(1,5428)	1:23:A:ALA:H	1:46:A:PHE:HD2	9	0.21	0.1	0.18
(1,2562)	1:72:A:LEU:HG	1:69:A:GLU:HA	9	0.19	0.05	0.2
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD11	9	0.18	0.05	0.19
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD12	9	0.18	0.05	0.19
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD13	9	0.18	0.05	0.19
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG11	9	0.18	0.05	0.18
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG12	9	0.18	0.05	0.18
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG13	9	0.18	0.05	0.18
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG21	9	0.18	0.05	0.18
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG22	9	0.18	0.05	0.18
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG23	9	0.18	0.05	0.18
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD21	9	0.17	0.09	0.13
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD22	9	0.17	0.09	0.13
(1,5118)	1:7:A:LYS:H	1:5:A:LEU:HG	9	0.16	0.03	0.16
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD11	9	0.14	0.04	0.13
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD12	9	0.14	0.04	0.13
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD13	9	0.14	0.04	0.13
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB1	9	0.13	0.01	0.12
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB2	9	0.13	0.01	0.12
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB3	9	0.13	0.01	0.12
(1,5220)	1:185:A:ASN:H	1:183:A:ILE:HG21	9	0.13	0.01	0.12
(1,5220)	1:185:A:ASN:H	1:183:A:ILE:HG22	9	0.13	0.01	0.12
(1,5220)	1:185:A:ASN:H	1:183:A:ILE:HG23	9	0.13	0.01	0.12
(1,3379)	1:75:A:LYS:HG2	1:19:A:GLU:HG2	8	0.73	0.38	0.83
(1,3379)	1:75:A:LYS:HG2	1:19:A:GLU:HG3	8	0.73	0.38	0.83
(1,3379)	1:75:A:LYS:HG3	1:19:A:GLU:HG2	8	0.73	0.38	0.83
(1,3379)	1:75:A:LYS:HG3	1:19:A:GLU:HG3	8	0.73	0.38	0.83
(1,3379)	1:7:A:LYS:HG3	1:61:A:GLU:HG2	8	0.73	0.38	0.83
(1,3379)	1:7:A:LYS:HG3	1:61:A:GLU:HG3	8	0.73	0.38	0.83
(1,2905)	1:126:A:LEU:HD12	1:199:A:TYR:HD1	8	0.64	0.21	0.7
(1,2905)	1:126:A:LEU:HD12	1:199:A:TYR:HD2	8	0.64	0.21	0.7
(1,2905)	1:126:A:LEU:HD13	1:199:A:TYR:HD1	8	0.64	0.21	0.7
(1,2905)	1:126:A:LEU:HD13	1:199:A:TYR:HD2	8	0.64	0.21	0.7
(1,2905)	1:126:A:LEU:HD11	1:199:A:TYR:HD1	8	0.64	0.21	0.7

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2905)	1:126:A:LEU:HD11	1:199:A:TYR:HD2	8	0.64	0.21	0.7
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG21	8	0.48	0.2	0.42
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG22	8	0.48	0.2	0.42
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG23	8	0.48	0.2	0.42
(1,5810)	1:61:A:GLU:HB3	1:59:A:ILE:HG21	8	0.48	0.2	0.42
(1,5810)	1:61:A:GLU:HB3	1:59:A:ILE:HG22	8	0.48	0.2	0.42
(1,5810)	1:61:A:GLU:HB3	1:59:A:ILE:HG23	8	0.48	0.2	0.42
(1,5416)	1:10:A:SER:H	1:61:A:GLU:HB2	8	0.42	0.17	0.43
(1,5416)	1:10:A:SER:H	1:61:A:GLU:HB3	8	0.42	0.17	0.43
(1,5416)	1:10:A:SER:H	1:22:A:PRO:HB2	8	0.42	0.17	0.43
(1,5416)	1:10:A:SER:H	1:22:A:PRO:HB3	8	0.42	0.17	0.43
(1,2872)	1:100:A:GLU:HB3	1:101:A:ILE:HD11	8	0.41	0.17	0.42
(1,2872)	1:100:A:GLU:HB3	1:101:A:ILE:HD12	8	0.41	0.17	0.42
(1,2872)	1:100:A:GLU:HB3	1:101:A:ILE:HD13	8	0.41	0.17	0.42
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD11	8	0.41	0.17	0.42
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD12	8	0.41	0.17	0.42
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD13	8	0.41	0.17	0.42
(1,2745)	1:137:A:ILE:HD13	1:126:A:LEU:HB2	8	0.39	0.09	0.4
(1,2745)	1:137:A:ILE:HD13	1:126:A:LEU:HB3	8	0.39	0.09	0.4
(1,2745)	1:137:A:ILE:HD11	1:126:A:LEU:HB2	8	0.39	0.09	0.4
(1,2745)	1:137:A:ILE:HD11	1:126:A:LEU:HB3	8	0.39	0.09	0.4
(1,2745)	1:137:A:ILE:HD12	1:126:A:LEU:HB2	8	0.39	0.09	0.4
(1,2745)	1:137:A:ILE:HD12	1:126:A:LEU:HB3	8	0.39	0.09	0.4
(1,2418)	1:200:A:LEU:HD23	1:199:A:TYR:H	8	0.38	0.19	0.37
(1,2418)	1:200:A:LEU:HD13	1:199:A:TYR:H	8	0.38	0.19	0.37
(1,2418)	1:200:A:LEU:HD21	1:150:A:LEU:H	8	0.38	0.19	0.37
(1,2418)	1:200:A:LEU:HD21	1:199:A:TYR:H	8	0.38	0.19	0.37
(1,2418)	1:200:A:LEU:HD12	1:153:A:LEU:H	8	0.38	0.19	0.37
(1,2418)	1:200:A:LEU:HD22	1:153:A:LEU:H	8	0.38	0.19	0.37
(1,2418)	1:200:A:LEU:HD22	1:199:A:TYR:H	8	0.38	0.19	0.37
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG21	8	0.36	0.11	0.36
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG22	8	0.36	0.11	0.36
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG23	8	0.36	0.11	0.36
(1,2255)	1:105:A:SER:HB2	1:101:A:ILE:HG21	8	0.36	0.11	0.36
(1,2255)	1:105:A:SER:HB2	1:101:A:ILE:HG22	8	0.36	0.11	0.36
(1,2255)	1:105:A:SER:HB2	1:101:A:ILE:HG23	8	0.36	0.11	0.36
(1,5679)	1:139:A:LYS:HB2	1:138:A:ASN:HD21	8	0.34	0.12	0.33
(1,5679)	1:139:A:LYS:HB2	1:138:A:ASN:HD22	8	0.34	0.12	0.33
(1,5679)	1:139:A:LYS:HB3	1:138:A:ASN:HD21	8	0.34	0.12	0.33
(1,5679)	1:139:A:LYS:HB3	1:138:A:ASN:HD22	8	0.34	0.12	0.33
(1,5679)	1:139:A:LYS:HD2	1:138:A:ASN:HD21	8	0.34	0.12	0.33
(1,5679)	1:139:A:LYS:HD2	1:138:A:ASN:HD22	8	0.34	0.12	0.33

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5679)	1:139:A:LYS:HD3	1:138:A:ASN:HD21	8	0.34	0.12	0.33
(1,5679)	1:139:A:LYS:HD3	1:138:A:ASN:HD22	8	0.34	0.12	0.33
(1,2415)	1:19:A:GLU:H	1:16:A:GLU:HG2	8	0.34	0.11	0.38
(1,2415)	1:19:A:GLU:H	1:16:A:GLU:HG3	8	0.34	0.11	0.38
(1,2415)	1:19:A:GLU:H	1:19:A:GLU:HG2	8	0.34	0.11	0.38
(1,2415)	1:19:A:GLU:H	1:19:A:GLU:HG3	8	0.34	0.11	0.38
(1,4985)	1:19:A:GLU:H	1:16:A:GLU:HG2	8	0.34	0.11	0.38
(1,4985)	1:19:A:GLU:H	1:16:A:GLU:HG3	8	0.34	0.11	0.38
(1,4985)	1:19:A:GLU:H	1:19:A:GLU:HG2	8	0.34	0.11	0.38
(1,4985)	1:19:A:GLU:H	1:19:A:GLU:HG3	8	0.34	0.11	0.38
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD11	8	0.31	0.09	0.34
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD12	8	0.31	0.09	0.34
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD13	8	0.31	0.09	0.34
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD21	8	0.31	0.09	0.34
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD22	8	0.31	0.09	0.34
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD23	8	0.31	0.09	0.34
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD11	8	0.31	0.09	0.34
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD12	8	0.31	0.09	0.34
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD13	8	0.31	0.09	0.34
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD21	8	0.31	0.09	0.34
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD22	8	0.31	0.09	0.34
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD23	8	0.31	0.09	0.34
(1,2682)	1:62:A:VAL:HB	1:9:A:VAL:HB	8	0.28	0.1	0.27
(1,3270)	1:144:A:GLY:HA3	1:146:A:LYS:HD2	8	0.26	0.08	0.28
(1,3270)	1:144:A:GLY:HA3	1:146:A:LYS:HD3	8	0.26	0.08	0.28
(1,3270)	1:80:A:LYS:HA	1:83:A:ILE:HG12	8	0.26	0.08	0.28
(1,3270)	1:80:A:LYS:HA	1:83:A:ILE:HG13	8	0.26	0.08	0.28
(1,3270)	1:182:A:PRO:HD2	1:146:A:LYS:HD2	8	0.26	0.08	0.28
(1,3270)	1:182:A:PRO:HD2	1:146:A:LYS:HD3	8	0.26	0.08	0.28
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG2	8	0.26	0.09	0.22
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG3	8	0.26	0.09	0.22
(1,5396)	1:124:A:GLN:H	1:126:A:LEU:HB2	8	0.25	0.12	0.2
(1,5396)	1:124:A:GLN:H	1:126:A:LEU:HB3	8	0.25	0.12	0.2
(1,5396)	1:124:A:GLN:H	1:98:A:ILE:HG12	8	0.25	0.12	0.2
(1,5396)	1:124:A:GLN:H	1:98:A:ILE:HG13	8	0.25	0.12	0.2
(1,5554)	1:128:A:LYS:HB2	1:129:A:PHE:H	8	0.25	0.11	0.2
(1,5554)	1:128:A:LYS:HB3	1:129:A:PHE:H	8	0.25	0.11	0.2
(1,2411)	1:88:A:ARG:HD2	1:88:A:ARG:H	8	0.25	0.07	0.25
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB2	8	0.25	0.11	0.2
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB3	8	0.25	0.11	0.2
(1,5534)	1:78:A:LEU:HB3	1:81:A:ALA:H	8	0.23	0.08	0.2
(1,5534)	1:78:A:LEU:HB2	1:81:A:ALA:H	8	0.23	0.08	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5534)	1:47:A:ILE:HB	1:81:A:ALA:H	8	0.23	0.08	0.2
(1,5430)	1:24:A:LEU:H	1:52:A:TYR:HE1	8	0.23	0.13	0.18
(1,5430)	1:24:A:LEU:H	1:52:A:TYR:HE2	8	0.23	0.13	0.18
(1,5430)	1:24:A:LEU:H	1:46:A:PHE:HE1	8	0.23	0.13	0.18
(1,5430)	1:24:A:LEU:H	1:46:A:PHE:HE2	8	0.23	0.13	0.18
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG2	8	0.22	0.06	0.22
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG3	8	0.22	0.06	0.22
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG11	8	0.22	0.06	0.22
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG12	8	0.22	0.06	0.22
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG13	8	0.22	0.06	0.22
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG21	8	0.22	0.06	0.22
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG22	8	0.22	0.06	0.22
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG23	8	0.22	0.06	0.22
(1,5125)	1:196:A:TYR:H	1:153:A:LEU:HD11	8	0.22	0.06	0.22
(1,5125)	1:196:A:TYR:H	1:153:A:LEU:HD12	8	0.22	0.06	0.22
(1,5125)	1:196:A:TYR:H	1:153:A:LEU:HD13	8	0.22	0.06	0.22
(1,5125)	1:196:A:TYR:H	1:153:A:LEU:HD21	8	0.22	0.06	0.22
(1,5125)	1:196:A:TYR:H	1:153:A:LEU:HD22	8	0.22	0.06	0.22
(1,5125)	1:196:A:TYR:H	1:153:A:LEU:HD23	8	0.22	0.06	0.22
(1,2639)	1:11:A:VAL:HG11	1:20:A:TRP:HB2	8	0.15	0.03	0.15
(1,2639)	1:11:A:VAL:HG11	1:20:A:TRP:HB3	8	0.15	0.03	0.15
(1,2639)	1:11:A:VAL:HG22	1:10:A:SER:HB2	8	0.15	0.03	0.15
(1,2639)	1:11:A:VAL:HG22	1:10:A:SER:HB3	8	0.15	0.03	0.15
(1,2639)	1:11:A:VAL:HG12	1:20:A:TRP:HB2	8	0.15	0.03	0.15
(1,2639)	1:11:A:VAL:HG12	1:20:A:TRP:HB3	8	0.15	0.03	0.15
(1,2639)	1:11:A:VAL:HG21	1:10:A:SER:HB2	8	0.15	0.03	0.15
(1,2639)	1:11:A:VAL:HG21	1:10:A:SER:HB3	8	0.15	0.03	0.15
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB2	8	0.13	0.02	0.14
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB3	8	0.13	0.02	0.14
(1,3869)	1:153:A:LEU:HG	1:179:A:LEU:H	8	0.13	0.02	0.12
(1,2461)	1:64:A:ILE:HD12	1:66:A:ASN:H	7	0.73	0.14	0.68
(1,2461)	1:64:A:ILE:HD11	1:66:A:ASN:H	7	0.73	0.14	0.68
(1,2461)	1:64:A:ILE:HD13	1:66:A:ASN:H	7	0.73	0.14	0.68
(1,3399)	1:64:A:ILE:HG12	1:62:A:VAL:HB	7	0.66	0.22	0.76
(1,3399)	1:198:A:LYS:HD2	1:139:A:LYS:HB2	7	0.66	0.22	0.76
(1,3399)	1:198:A:LYS:HD2	1:139:A:LYS:HB3	7	0.66	0.22	0.76
(1,3399)	1:198:A:LYS:HD3	1:139:A:LYS:HB2	7	0.66	0.22	0.76
(1,3399)	1:198:A:LYS:HD3	1:139:A:LYS:HB3	7	0.66	0.22	0.76
(1,3399)	1:64:A:ILE:HG13	1:62:A:VAL:HB	7	0.66	0.22	0.76
(1,5625)	1:146:A:LYS:HG2	1:145:A:TYR:H	7	0.57	0.15	0.58
(1,5625)	1:143:A:LEU:HG	1:145:A:TYR:H	7	0.57	0.15	0.58
(1,5625)	1:64:A:ILE:HG12	1:82:A:SER:H	7	0.57	0.15	0.58

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5054)	1:78:A:LEU:H	1:75:A:LYS:HG2	7	0.55	0.17	0.62
(1,5054)	1:78:A:LEU:H	1:75:A:LYS:HG3	7	0.55	0.17	0.62
(1,5054)	1:78:A:LEU:H	1:47:A:ILE:HG12	7	0.55	0.17	0.62
(1,5054)	1:78:A:LEU:H	1:47:A:ILE:HG13	7	0.55	0.17	0.62
(1,160)	1:145:A:TYR:HE1	1:184:A:LEU:HB2	7	0.51	0.22	0.6
(1,160)	1:145:A:TYR:HE1	1:184:A:LEU:HB3	7	0.51	0.22	0.6
(1,160)	1:145:A:TYR:HE1	1:146:A:LYS:HD2	7	0.51	0.22	0.6
(1,160)	1:145:A:TYR:HE1	1:146:A:LYS:HD3	7	0.51	0.22	0.6
(1,160)	1:145:A:TYR:HE2	1:184:A:LEU:HB2	7	0.51	0.22	0.6
(1,160)	1:145:A:TYR:HE2	1:184:A:LEU:HB3	7	0.51	0.22	0.6
(1,2596)	1:90:A:VAL:HG21	1:85:A:LEU:HA	7	0.5	0.28	0.48
(1,2596)	1:90:A:VAL:HG23	1:85:A:LEU:HA	7	0.5	0.28	0.48
(1,2596)	1:90:A:VAL:HG22	1:85:A:LEU:HA	7	0.5	0.28	0.48
(1,2596)	1:90:A:VAL:HG13	1:85:A:LEU:HA	7	0.5	0.28	0.48
(1,5237)	1:145:A:TYR:H	1:146:A:LYS:HG2	7	0.42	0.16	0.36
(1,5237)	1:145:A:TYR:H	1:146:A:LYS:HG3	7	0.42	0.16	0.36
(1,5237)	1:145:A:TYR:H	1:143:A:LEU:HG	7	0.42	0.16	0.36
(1,2529)	1:5:A:LEU:HD12	1:2:A:ASP:HA	7	0.4	0.28	0.37
(1,2529)	1:5:A:LEU:HD11	1:2:A:ASP:HA	7	0.4	0.28	0.37
(1,2529)	1:5:A:LEU:HD13	1:2:A:ASP:HA	7	0.4	0.28	0.37
(1,3091)	1:87:A:THR:H	1:88:A:ARG:HD2	7	0.4	0.13	0.39
(1,3091)	1:87:A:THR:H	1:88:A:ARG:HD3	7	0.4	0.13	0.39
(1,3091)	1:129:A:PHE:H	1:88:A:ARG:HD2	7	0.4	0.13	0.39
(1,3091)	1:129:A:PHE:H	1:88:A:ARG:HD3	7	0.4	0.13	0.39
(1,5233)	1:1:A:ASN:HD22	1:61:A:GLU:HG2	7	0.34	0.17	0.44
(1,5233)	1:1:A:ASN:HD22	1:61:A:GLU:HG3	7	0.34	0.17	0.44
(1,5233)	1:1:A:ASN:HD21	1:61:A:GLU:HG2	7	0.34	0.17	0.44
(1,5233)	1:1:A:ASN:HD21	1:61:A:GLU:HG3	7	0.34	0.17	0.44
(1,5233)	1:1:A:ASN:HD22	1:9:A:VAL:HB	7	0.34	0.17	0.44
(1,128)	1:51:A:PHE:HD1	1:44:A:ARG:HG2	7	0.34	0.13	0.28
(1,128)	1:51:A:PHE:HD1	1:44:A:ARG:HG3	7	0.34	0.13	0.28
(1,128)	1:51:A:PHE:HD1	1:133:A:ARG:HB2	7	0.34	0.13	0.28
(1,128)	1:51:A:PHE:HD1	1:133:A:ARG:HB3	7	0.34	0.13	0.28
(1,128)	1:51:A:PHE:HD2	1:133:A:ARG:HB2	7	0.34	0.13	0.28
(1,128)	1:51:A:PHE:HD2	1:133:A:ARG:HB3	7	0.34	0.13	0.28
(1,5273)	1:135:A:THR:H	1:136:A:PRO:HB2	7	0.33	0.15	0.43
(1,5273)	1:135:A:THR:H	1:136:A:PRO:HB3	7	0.33	0.15	0.43
(1,3259)	1:56:A:ARG:HA	1:56:A:ARG:HD2	7	0.33	0.1	0.32
(1,3259)	1:56:A:ARG:HA	1:56:A:ARG:HD3	7	0.33	0.1	0.32
(1,3259)	1:80:A:LYS:HA	1:80:A:LYS:HE2	7	0.33	0.1	0.32
(1,3259)	1:80:A:LYS:HA	1:80:A:LYS:HE3	7	0.33	0.1	0.32
(1,5786)	1:115:A:ASP:HA	1:117:A:GLU:H	7	0.32	0.17	0.22

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD11	7	0.32	0.08	0.28
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD12	7	0.32	0.08	0.28
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD13	7	0.32	0.08	0.28
(1,2873)	1:10:A:SER:HA	1:9:A:VAL:HG11	7	0.32	0.08	0.28
(1,2873)	1:10:A:SER:HA	1:9:A:VAL:HG12	7	0.32	0.08	0.28
(1,2873)	1:10:A:SER:HA	1:9:A:VAL:HG13	7	0.32	0.08	0.28
(1,2873)	1:10:A:SER:HA	1:9:A:VAL:HG21	7	0.32	0.08	0.28
(1,2873)	1:10:A:SER:HA	1:9:A:VAL:HG22	7	0.32	0.08	0.28
(1,2873)	1:10:A:SER:HA	1:9:A:VAL:HG23	7	0.32	0.08	0.28
(1,3434)	1:181:A:ILE:HG12	1:146:A:LYS:HE2	7	0.29	0.14	0.27
(1,3434)	1:181:A:ILE:HG12	1:146:A:LYS:HE3	7	0.29	0.14	0.27
(1,3096)	1:104:A:SER:H	1:103:A:GLU:HG2	7	0.26	0.08	0.23
(1,3096)	1:104:A:SER:H	1:103:A:GLU:HG3	7	0.26	0.08	0.23
(1,3096)	1:19:A:GLU:H	1:16:A:GLU:HG2	7	0.26	0.08	0.23
(1,3096)	1:19:A:GLU:H	1:16:A:GLU:HG3	7	0.26	0.08	0.23
(1,5491)	1:37:A:LYS:H	1:37:A:LYS:HE2	7	0.25	0.12	0.21
(1,5491)	1:37:A:LYS:H	1:37:A:LYS:HE3	7	0.25	0.12	0.21
(1,2552)	1:101:A:ILE:HG22	1:102:A:LEU:HA	7	0.19	0.04	0.18
(1,2552)	1:101:A:ILE:HG23	1:102:A:LEU:HA	7	0.19	0.04	0.18
(1,2552)	1:101:A:ILE:HG21	1:102:A:LEU:HA	7	0.19	0.04	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD11	7	0.19	0.05	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD12	7	0.19	0.05	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD13	7	0.19	0.05	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD21	7	0.19	0.05	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD22	7	0.19	0.05	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD23	7	0.19	0.05	0.18
(1,4938)	1:148:A:LEU:H	1:142:A:VAL:HG11	7	0.19	0.05	0.18
(1,4938)	1:148:A:LEU:H	1:142:A:VAL:HG12	7	0.19	0.05	0.18
(1,4938)	1:148:A:LEU:H	1:142:A:VAL:HG13	7	0.19	0.05	0.18
(1,4938)	1:148:A:LEU:H	1:142:A:VAL:HG21	7	0.19	0.05	0.18
(1,4938)	1:148:A:LEU:H	1:142:A:VAL:HG22	7	0.19	0.05	0.18
(1,4938)	1:148:A:LEU:H	1:142:A:VAL:HG23	7	0.19	0.05	0.18
(1,5275)	1:74:A:THR:H	1:71:A:GLU:HB2	7	0.18	0.05	0.2
(1,5275)	1:74:A:THR:H	1:71:A:GLU:HB3	7	0.18	0.05	0.2
(1,5451)	1:126:A:LEU:H	1:122:A:PHE:HB2	7	0.15	0.07	0.11
(1,5451)	1:126:A:LEU:H	1:122:A:PHE:HB3	7	0.15	0.07	0.11
(1,5451)	1:126:A:LEU:H	1:128:A:LYS:HB2	7	0.15	0.07	0.11
(1,5451)	1:126:A:LEU:H	1:128:A:LYS:HB3	7	0.15	0.07	0.11
(1,2660)	1:65:A:LEU:HD13	1:63:A:ASP:HB2	6	0.59	0.25	0.44
(1,2660)	1:65:A:LEU:HD13	1:63:A:ASP:HB3	6	0.59	0.25	0.44
(1,2660)	1:65:A:LEU:HD11	1:63:A:ASP:HB2	6	0.59	0.25	0.44
(1,2660)	1:65:A:LEU:HD11	1:63:A:ASP:HB3	6	0.59	0.25	0.44

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3439)	1:102:A:LEU:HD23	1:147:A:ASP:HB2	6	0.54	0.21	0.53
(1,3439)	1:102:A:LEU:HD23	1:147:A:ASP:HB3	6	0.54	0.21	0.53
(1,3439)	1:42:A:LEU:HG	1:31:A:ASN:HB2	6	0.54	0.21	0.53
(1,3439)	1:42:A:LEU:HG	1:31:A:ASN:HB3	6	0.54	0.21	0.53
(1,3439)	1:142:A:VAL:HG13	1:147:A:ASP:HB2	6	0.54	0.21	0.53
(1,3439)	1:142:A:VAL:HG13	1:147:A:ASP:HB3	6	0.54	0.21	0.53
(1,3439)	1:102:A:LEU:HD21	1:147:A:ASP:HB2	6	0.54	0.21	0.53
(1,3439)	1:102:A:LEU:HD21	1:147:A:ASP:HB3	6	0.54	0.21	0.53
(1,3439)	1:102:A:LEU:HD11	1:147:A:ASP:HB2	6	0.54	0.21	0.53
(1,3439)	1:102:A:LEU:HD11	1:147:A:ASP:HB3	6	0.54	0.21	0.53
(1,3439)	1:102:A:LEU:HD22	1:147:A:ASP:HB2	6	0.54	0.21	0.53
(1,3439)	1:102:A:LEU:HD22	1:147:A:ASP:HB3	6	0.54	0.21	0.53
(1,3312)	1:158:A:TYR:HB2	1:157:A:VAL:HB	6	0.53	0.15	0.49
(1,3312)	1:58:A:ASP:HB2	1:57:A:LYS:HB2	6	0.53	0.15	0.49
(1,3312)	1:58:A:ASP:HB2	1:57:A:LYS:HB3	6	0.53	0.15	0.49
(1,5850)	1:113:A:GLU:HG3	1:113:A:GLU:H	6	0.49	0.28	0.48
(1,5850)	1:113:A:GLU:HG2	1:114:A:LEU:H	6	0.49	0.28	0.48
(1,5861)	1:116:A:PRO:HG3	1:117:A:GLU:H	6	0.42	0.13	0.46
(1,5861)	1:116:A:PRO:HG2	1:117:A:GLU:H	6	0.42	0.13	0.46
(1,2238)	1:207:A:CYS:HA	1:211:A:ASN:HD21	6	0.42	0.13	0.42
(1,2238)	1:207:A:CYS:HA	1:211:A:ASN:HD22	6	0.42	0.13	0.42
(1,2238)	1:207:A:CYS:HA	1:213:A:GLN:HE21	6	0.42	0.13	0.42
(1,2238)	1:207:A:CYS:HA	1:213:A:GLN:HE22	6	0.42	0.13	0.42
(1,2426)	1:101:A:ILE:HG22	1:103:A:GLU:H	6	0.4	0.17	0.36
(1,2426)	1:101:A:ILE:HG23	1:103:A:GLU:H	6	0.4	0.17	0.36
(1,2426)	1:101:A:ILE:HG21	1:103:A:GLU:H	6	0.4	0.17	0.36
(1,5247)	1:40:A:GLN:HE21	1:55:A:ALA:HA	6	0.34	0.16	0.28
(1,5247)	1:40:A:GLN:HE21	1:37:A:LYS:HA	6	0.34	0.16	0.28
(1,2947)	1:30:A:CYS:HB2	1:29:A:SER:HB2	6	0.34	0.12	0.32
(1,2947)	1:30:A:CYS:HB2	1:29:A:SER:HB3	6	0.34	0.12	0.32
(1,2947)	1:133:A:ARG:HD3	1:136:A:PRO:HA	6	0.34	0.12	0.32
(1,2947)	1:133:A:ARG:HD2	1:136:A:PRO:HA	6	0.34	0.12	0.32
(1,2502)	1:42:A:LEU:HG	1:27:A:SER:HA	6	0.3	0.12	0.32
(1,2502)	1:42:A:LEU:HG	1:53:A:SER:HA	6	0.3	0.12	0.32
(1,3505)	1:197:A:ARG:HG3	1:197:A:ARG:HA	6	0.28	0.14	0.2
(1,3505)	1:197:A:ARG:HG2	1:197:A:ARG:HA	6	0.28	0.14	0.2
(1,5290)	1:73:A:SER:H	1:79:A:GLN:HG2	6	0.27	0.13	0.22
(1,5290)	1:73:A:SER:H	1:79:A:GLN:HG3	6	0.27	0.13	0.22
(1,5290)	1:73:A:SER:H	1:69:A:GLU:HG2	6	0.27	0.13	0.22
(1,5290)	1:73:A:SER:H	1:69:A:GLU:HG3	6	0.27	0.13	0.22
(1,2425)	1:54:A:ILE:HG23	1:12:A:VAL:H	6	0.26	0.1	0.23
(1,2425)	1:54:A:ILE:HG21	1:12:A:VAL:H	6	0.26	0.1	0.23

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2425)	1:54:A:ILE:HG21	1:57:A:LYS:H	6	0.26	0.1	0.23
(1,2425)	1:54:A:ILE:HG22	1:12:A:VAL:H	6	0.26	0.1	0.23
(1,1218)	1:62:A:VAL:HA	1:62:A:VAL:HB	6	0.16	0.01	0.16
(1,625)	1:143:A:LEU:H	1:142:A:VAL:HB	6	0.15	0.02	0.16
(1,5835)	1:110:A:LYS:HA	1:110:A:LYS:H	6	0.14	0.02	0.13
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD11	6	0.13	0.02	0.13
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD12	6	0.13	0.02	0.13
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD13	6	0.13	0.02	0.13
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD11	6	0.13	0.02	0.13
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD12	6	0.13	0.02	0.13
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD13	6	0.13	0.02	0.13
(1,2435)	1:153:A:LEU:HG	1:179:A:LEU:H	6	0.13	0.03	0.12
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE1	6	0.12	0.02	0.11
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE2	6	0.12	0.02	0.11
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE3	6	0.12	0.02	0.11
(1,263)	1:137:A:ILE:HG12	1:136:A:PRO:HA	6	0.11	0.03	0.1
(1,263)	1:137:A:ILE:HG13	1:136:A:PRO:HA	6	0.11	0.03	0.1
(1,2383)	1:43:A:VAL:HG22	1:52:A:TYR:H	5	0.7	0.24	0.56
(1,2383)	1:43:A:VAL:HG21	1:52:A:TYR:H	5	0.7	0.24	0.56
(1,2383)	1:43:A:VAL:HG23	1:52:A:TYR:H	5	0.7	0.24	0.56
(1,5801)	1:146:A:LYS:HE2	1:182:A:PRO:HG2	5	0.61	0.11	0.59
(1,5801)	1:146:A:LYS:HE2	1:182:A:PRO:HG3	5	0.61	0.11	0.59
(1,5801)	1:112:A:LYS:HE2	1:116:A:PRO:HG2	5	0.61	0.11	0.59
(1,5801)	1:112:A:LYS:HE2	1:116:A:PRO:HG3	5	0.61	0.11	0.59
(1,2379)	1:24:A:LEU:HD11	1:44:A:ARG:H	5	0.55	0.1	0.51
(1,2379)	1:24:A:LEU:HD12	1:46:A:PHE:H	5	0.55	0.1	0.51
(1,2379)	1:24:A:LEU:HD23	1:44:A:ARG:H	5	0.55	0.1	0.51
(1,2379)	1:24:A:LEU:HD21	1:44:A:ARG:H	5	0.55	0.1	0.51
(1,3448)	1:43:A:VAL:HG12	1:41:A:CYS:HB2	5	0.5	0.29	0.42
(1,3448)	1:43:A:VAL:HG12	1:41:A:CYS:HB3	5	0.5	0.29	0.42
(1,3448)	1:43:A:VAL:HG11	1:41:A:CYS:HB2	5	0.5	0.29	0.42
(1,3448)	1:43:A:VAL:HG11	1:41:A:CYS:HB3	5	0.5	0.29	0.42
(1,3448)	1:43:A:VAL:HG13	1:41:A:CYS:HB2	5	0.5	0.29	0.42
(1,3448)	1:43:A:VAL:HG13	1:41:A:CYS:HB3	5	0.5	0.29	0.42
(1,3448)	1:101:A:ILE:HG13	1:96:A:MET:HG2	5	0.5	0.29	0.42
(1,3448)	1:101:A:ILE:HG13	1:96:A:MET:HG3	5	0.5	0.29	0.42
(1,2573)	1:187:A:ALA:HB1	1:186:A:SER:HB2	5	0.47	0.14	0.47
(1,2573)	1:187:A:ALA:HB1	1:186:A:SER:HB3	5	0.47	0.14	0.47
(1,2573)	1:187:A:ALA:HB3	1:186:A:SER:HB2	5	0.47	0.14	0.47
(1,2573)	1:187:A:ALA:HB3	1:186:A:SER:HB3	5	0.47	0.14	0.47
(1,2573)	1:187:A:ALA:HB2	1:186:A:SER:HB2	5	0.47	0.14	0.47
(1,2573)	1:187:A:ALA:HB2	1:186:A:SER:HB3	5	0.47	0.14	0.47

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,172)	1:122:A:PHE:HE1	1:126:A:LEU:HG	5	0.44	0.11	0.39
(1,172)	1:122:A:PHE:HE1	1:200:A:LEU:HB2	5	0.44	0.11	0.39
(1,172)	1:122:A:PHE:HE1	1:200:A:LEU:HB3	5	0.44	0.11	0.39
(1,172)	1:122:A:PHE:HE2	1:126:A:LEU:HG	5	0.44	0.11	0.39
(1,3115)	1:80:A:LYS:H	1:22:A:PRO:HG2	5	0.42	0.16	0.5
(1,3115)	1:80:A:LYS:H	1:22:A:PRO:HG3	5	0.42	0.16	0.5
(1,2466)	1:60:A:LYS:HD3	1:20:A:TRP:HD1	5	0.4	0.23	0.37
(1,2466)	1:60:A:LYS:HD3	1:17:A:ARG:HE	5	0.4	0.23	0.37
(1,2466)	1:60:A:LYS:HD2	1:17:A:ARG:HE	5	0.4	0.23	0.37
(1,3330)	1:90:A:VAL:HB	1:91:A:PRO:HG2	5	0.4	0.2	0.33
(1,3330)	1:90:A:VAL:HB	1:91:A:PRO:HG3	5	0.4	0.2	0.33
(1,3330)	1:100:A:GLU:HG3	1:101:A:ILE:HG12	5	0.4	0.2	0.33
(1,3330)	1:100:A:GLU:HG3	1:101:A:ILE:HG13	5	0.4	0.2	0.33
(1,3330)	1:100:A:GLU:HG2	1:101:A:ILE:HG12	5	0.4	0.2	0.33
(1,3330)	1:100:A:GLU:HG2	1:101:A:ILE:HG13	5	0.4	0.2	0.33
(1,2471)	1:12:A:VAL:HG23	1:20:A:TRP:HD1	5	0.39	0.14	0.42
(1,2471)	1:12:A:VAL:HG22	1:20:A:TRP:HD1	5	0.39	0.14	0.42
(1,2471)	1:12:A:VAL:HG12	1:17:A:ARG:HE	5	0.39	0.14	0.42
(1,2471)	1:12:A:VAL:HG11	1:17:A:ARG:HE	5	0.39	0.14	0.42
(1,5318)	1:36:A:VAL:H	1:37:A:LYS:HG2	5	0.39	0.15	0.45
(1,5318)	1:36:A:VAL:H	1:37:A:LYS:HG3	5	0.39	0.15	0.45
(1,5318)	1:36:A:VAL:H	1:34:A:ILE:HB	5	0.39	0.15	0.45
(1,3287)	1:140:A:PRO:HD3	1:139:A:LYS:HD2	5	0.37	0.15	0.32
(1,3287)	1:140:A:PRO:HD3	1:139:A:LYS:HD3	5	0.37	0.15	0.32
(1,3287)	1:53:A:SER:HB3	1:37:A:LYS:HD2	5	0.37	0.15	0.32
(1,3287)	1:53:A:SER:HB3	1:37:A:LYS:HD3	5	0.37	0.15	0.32
(1,3287)	1:53:A:SER:HB2	1:37:A:LYS:HD2	5	0.37	0.15	0.32
(1,3287)	1:53:A:SER:HB2	1:37:A:LYS:HD3	5	0.37	0.15	0.32
(1,3287)	1:140:A:PRO:HD2	1:139:A:LYS:HD2	5	0.37	0.15	0.32
(1,3287)	1:140:A:PRO:HD2	1:139:A:LYS:HD3	5	0.37	0.15	0.32
(1,2548)	1:150:A:LEU:HD12	1:141:A:PRO:HA	5	0.34	0.15	0.44
(1,2548)	1:150:A:LEU:HD22	1:141:A:PRO:HA	5	0.34	0.15	0.44
(1,2548)	1:150:A:LEU:HD11	1:141:A:PRO:HA	5	0.34	0.15	0.44
(1,5785)	1:111:A:GLU:H	1:111:A:GLU:HG2	5	0.32	0.12	0.26
(1,5785)	1:111:A:GLU:H	1:111:A:GLU:HG3	5	0.32	0.12	0.26
(1,5785)	1:222:A:LEU:H	1:221:A:GLU:HG2	5	0.32	0.12	0.26
(1,5785)	1:222:A:LEU:H	1:221:A:GLU:HG3	5	0.32	0.12	0.26
(1,5842)	1:111:A:GLU:H	1:111:A:GLU:HG2	5	0.32	0.12	0.26
(1,5842)	1:111:A:GLU:H	1:111:A:GLU:HG3	5	0.32	0.12	0.26
(1,5842)	1:222:A:LEU:H	1:221:A:GLU:HG2	5	0.32	0.12	0.26
(1,5842)	1:222:A:LEU:H	1:221:A:GLU:HG3	5	0.32	0.12	0.26
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD11	5	0.31	0.11	0.29

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD12	5	0.31	0.11	0.29
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD13	5	0.31	0.11	0.29
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD21	5	0.31	0.11	0.29
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD22	5	0.31	0.11	0.29
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD23	5	0.31	0.11	0.29
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD11	5	0.31	0.11	0.29
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD12	5	0.31	0.11	0.29
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD13	5	0.31	0.11	0.29
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD21	5	0.31	0.11	0.29
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD22	5	0.31	0.11	0.29
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD23	5	0.31	0.11	0.29
(1,2804)	1:171:A:VAL:HG13	1:175:A:ILE:HD11	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG13	1:175:A:ILE:HD12	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG13	1:175:A:ILE:HD13	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG11	1:157:A:VAL:HG11	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG11	1:157:A:VAL:HG12	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG11	1:157:A:VAL:HG13	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG11	1:157:A:VAL:HG21	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG11	1:157:A:VAL:HG22	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG11	1:157:A:VAL:HG23	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG11	1:175:A:ILE:HD11	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG11	1:175:A:ILE:HD12	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG11	1:175:A:ILE:HD13	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG12	1:157:A:VAL:HG11	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG12	1:157:A:VAL:HG12	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG12	1:157:A:VAL:HG13	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG12	1:157:A:VAL:HG21	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG12	1:157:A:VAL:HG22	5	0.28	0.17	0.25
(1,2804)	1:171:A:VAL:HG12	1:157:A:VAL:HG23	5	0.28	0.17	0.25
(1,3431)	1:83:A:ILE:HG21	1:87:A:THR:HG21	5	0.27	0.09	0.24
(1,3431)	1:83:A:ILE:HG21	1:87:A:THR:HG22	5	0.27	0.09	0.24
(1,3431)	1:83:A:ILE:HG21	1:87:A:THR:HG23	5	0.27	0.09	0.24
(1,3431)	1:83:A:ILE:HG23	1:87:A:THR:HG21	5	0.27	0.09	0.24
(1,3431)	1:83:A:ILE:HG23	1:87:A:THR:HG22	5	0.27	0.09	0.24
(1,3431)	1:83:A:ILE:HG23	1:87:A:THR:HG23	5	0.27	0.09	0.24
(1,3431)	1:83:A:ILE:HG22	1:87:A:THR:HG21	5	0.27	0.09	0.24
(1,3431)	1:83:A:ILE:HG22	1:87:A:THR:HG22	5	0.27	0.09	0.24
(1,3431)	1:83:A:ILE:HG22	1:87:A:THR:HG23	5	0.27	0.09	0.24
(1,3431)	1:36:A:VAL:HG11	1:35:A:THR:HG21	5	0.27	0.09	0.24
(1,3431)	1:36:A:VAL:HG11	1:35:A:THR:HG22	5	0.27	0.09	0.24
(1,3431)	1:36:A:VAL:HG11	1:35:A:THR:HG23	5	0.27	0.09	0.24
(1,750)	1:114:A:LEU:H	1:114:A:LEU:HG	5	0.25	0.04	0.26

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2554)	1:175:A:ILE:HD12	1:192:A:VAL:HA	5	0.24	0.19	0.12
(1,2554)	1:175:A:ILE:HD13	1:153:A:LEU:HA	5	0.24	0.19	0.12
(1,2554)	1:175:A:ILE:HD12	1:153:A:LEU:HA	5	0.24	0.19	0.12
(1,2998)	1:178:A:ASP:HB3	1:153:A:LEU:HA	5	0.24	0.09	0.25
(1,2998)	1:204:A:GLU:HB3	1:197:A:ARG:HA	5	0.24	0.09	0.25
(1,2998)	1:204:A:GLU:HB2	1:197:A:ARG:HA	5	0.24	0.09	0.25
(1,3273)	1:151:A:PHE:HA	1:119:A:ARG:HB2	5	0.24	0.1	0.21
(1,3273)	1:151:A:PHE:HA	1:119:A:ARG:HB3	5	0.24	0.1	0.21
(1,3221)	1:38:A:LYS:HA	1:38:A:LYS:HD2	5	0.23	0.06	0.22
(1,3221)	1:38:A:LYS:HA	1:38:A:LYS:HD3	5	0.23	0.06	0.22
(1,3221)	1:170:A:ALA:HA	1:173:A:LYS:HD2	5	0.23	0.06	0.22
(1,3221)	1:170:A:ALA:HA	1:173:A:LYS:HD3	5	0.23	0.06	0.22
(1,2645)	1:54:A:ILE:HG21	1:57:A:LYS:HE2	5	0.22	0.2	0.13
(1,2645)	1:54:A:ILE:HG21	1:57:A:LYS:HE3	5	0.22	0.2	0.13
(1,2645)	1:54:A:ILE:HG23	1:41:A:CYS:HB2	5	0.22	0.2	0.13
(1,2645)	1:54:A:ILE:HG23	1:41:A:CYS:HB3	5	0.22	0.2	0.13
(1,2645)	1:54:A:ILE:HG21	1:41:A:CYS:HB2	5	0.22	0.2	0.13
(1,2645)	1:54:A:ILE:HG21	1:41:A:CYS:HB3	5	0.22	0.2	0.13
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG11	5	0.22	0.06	0.2
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG12	5	0.22	0.06	0.2
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG13	5	0.22	0.06	0.2
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG21	5	0.22	0.06	0.2
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG22	5	0.22	0.06	0.2
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG23	5	0.22	0.06	0.2
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG11	5	0.22	0.06	0.2
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG12	5	0.22	0.06	0.2
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG13	5	0.22	0.06	0.2
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG21	5	0.22	0.06	0.2
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG22	5	0.22	0.06	0.2
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG23	5	0.22	0.06	0.2
(1,5488)	1:195:A:ALA:H	1:191:A:ASN:HD21	5	0.22	0.03	0.23
(1,5488)	1:195:A:ALA:H	1:191:A:ASN:HD22	5	0.22	0.03	0.23
(1,5070)	1:40:A:GLN:H	1:56:A:ARG:H	5	0.22	0.09	0.19
(1,2289)	1:119:A:ARG:HA	1:117:A:GLU:H	5	0.21	0.1	0.2
(1,3081)	1:8:A:VAL:H	1:7:A:LYS:HG2	5	0.2	0.08	0.16
(1,3081)	1:8:A:VAL:H	1:7:A:LYS:HG3	5	0.2	0.08	0.16
(1,3097)	1:177:A:MET:H	1:174:A:GLN:HG2	5	0.19	0.05	0.22
(1,3097)	1:177:A:MET:H	1:174:A:GLN:HG3	5	0.19	0.05	0.22
(1,3097)	1:82:A:SER:H	1:79:A:GLN:HG2	5	0.19	0.05	0.22
(1,3097)	1:82:A:SER:H	1:79:A:GLN:HG3	5	0.19	0.05	0.22
(1,5807)	1:99:A:SER:H	1:97:A:ASP:HB2	5	0.18	0.05	0.18
(1,5807)	1:99:A:SER:H	1:97:A:ASP:HB3	5	0.18	0.05	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5807)	1:2:A:ASP:H	1:2:A:ASP:HB2	5	0.18	0.05	0.18
(1,5807)	1:2:A:ASP:H	1:2:A:ASP:HB3	5	0.18	0.05	0.18
(1,2428)	1:64:A:ILE:HD13	1:65:A:LEU:H	5	0.17	0.05	0.17
(1,3604)	1:149:A:ASN:HB2	1:150:A:LEU:H	5	0.16	0.04	0.15
(1,3604)	1:149:A:ASN:HB3	1:150:A:LEU:H	5	0.16	0.04	0.15
(1,362)	1:150:A:LEU:HG	1:119:A:ARG:HA	5	0.15	0.03	0.14
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG11	5	0.12	0.01	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG12	5	0.12	0.01	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG13	5	0.12	0.01	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG21	5	0.12	0.01	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG22	5	0.12	0.01	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG23	5	0.12	0.01	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG11	5	0.12	0.01	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG12	5	0.12	0.01	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG13	5	0.12	0.01	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG21	5	0.12	0.01	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG22	5	0.12	0.01	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG23	5	0.12	0.01	0.13
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG11	5	0.12	0.01	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG12	5	0.12	0.01	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG13	5	0.12	0.01	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG21	5	0.12	0.01	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG22	5	0.12	0.01	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG23	5	0.12	0.01	0.12
(1,1383)	1:145:A:TYR:HB2	1:146:A:LYS:HD2	5	0.12	0.02	0.11
(1,1383)	1:145:A:TYR:HB2	1:146:A:LYS:HD3	5	0.12	0.02	0.11
(1,1383)	1:145:A:TYR:HB3	1:146:A:LYS:HD2	5	0.12	0.02	0.11
(1,1383)	1:145:A:TYR:HB3	1:146:A:LYS:HD3	5	0.12	0.02	0.11
(1,101)	1:191:A:ASN:HB2	1:190:A:TYR:HE1	5	0.11	0.01	0.11
(1,101)	1:191:A:ASN:HB2	1:190:A:TYR:HE2	5	0.11	0.01	0.11
(1,101)	1:191:A:ASN:HB3	1:190:A:TYR:HE1	5	0.11	0.01	0.11
(1,101)	1:191:A:ASN:HB3	1:190:A:TYR:HE2	5	0.11	0.01	0.11
(1,5556)	1:96:A:MET:HB2	1:95:A:LYS:H	4	0.58	0.3	0.65
(1,5556)	1:197:A:ARG:HB3	1:201:A:TYR:H	4	0.58	0.3	0.65
(1,2884)	1:61:A:GLU:HG2	1:3:A:GLU:HA	4	0.57	0.28	0.6
(1,2884)	1:61:A:GLU:HG3	1:3:A:GLU:HA	4	0.57	0.28	0.6
(1,2448)	1:130:A:MET:HE2	1:200:A:LEU:H	4	0.55	0.24	0.64
(1,2448)	1:130:A:MET:HE1	1:200:A:LEU:H	4	0.55	0.24	0.64
(1,5559)	1:24:A:LEU:HD22	1:8:A:VAL:H	4	0.54	0.09	0.5
(1,5559)	1:24:A:LEU:HD11	1:8:A:VAL:H	4	0.54	0.09	0.5
(1,5559)	1:24:A:LEU:HD21	1:8:A:VAL:H	4	0.54	0.09	0.5
(1,5559)	1:5:A:LEU:HD23	1:2:A:ASP:H	4	0.54	0.09	0.5

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5547)	1:100:A:GLU:HG3	1:100:A:GLU:H	4	0.48	0.29	0.42
(1,5547)	1:100:A:GLU:HG2	1:100:A:GLU:H	4	0.48	0.29	0.42
(1,2541)	1:142:A:VAL:HB	1:148:A:LEU:HA	4	0.48	0.19	0.56
(1,2541)	1:142:A:VAL:HB	1:141:A:PRO:HA	4	0.48	0.19	0.56
(1,3433)	1:4:A:LEU:HD23	1:56:A:ARG:HD2	4	0.42	0.09	0.44
(1,3433)	1:4:A:LEU:HD23	1:56:A:ARG:HD3	4	0.42	0.09	0.44
(1,3433)	1:12:A:VAL:HG12	1:17:A:ARG:HD2	4	0.42	0.09	0.44
(1,3433)	1:12:A:VAL:HG12	1:17:A:ARG:HD3	4	0.42	0.09	0.44
(1,3433)	1:12:A:VAL:HG23	1:17:A:ARG:HD2	4	0.42	0.09	0.44
(1,3433)	1:12:A:VAL:HG23	1:17:A:ARG:HD3	4	0.42	0.09	0.44
(1,3433)	1:4:A:LEU:HD21	1:56:A:ARG:HD2	4	0.42	0.09	0.44
(1,3433)	1:4:A:LEU:HD21	1:56:A:ARG:HD3	4	0.42	0.09	0.44
(1,5373)	1:134:A:GLY:H	1:133:A:ARG:HD2	4	0.34	0.16	0.3
(1,5373)	1:134:A:GLY:H	1:133:A:ARG:HD3	4	0.34	0.16	0.3
(1,5373)	1:134:A:GLY:H	1:44:A:ARG:HD2	4	0.34	0.16	0.3
(1,5373)	1:134:A:GLY:H	1:44:A:ARG:HD3	4	0.34	0.16	0.3
(1,3340)	1:19:A:GLU:HB2	1:75:A:LYS:HG2	4	0.34	0.08	0.35
(1,3340)	1:19:A:GLU:HB2	1:75:A:LYS:HG3	4	0.34	0.08	0.35
(1,3340)	1:19:A:GLU:HB3	1:75:A:LYS:HG2	4	0.34	0.08	0.35
(1,3340)	1:19:A:GLU:HB3	1:75:A:LYS:HG3	4	0.34	0.08	0.35
(1,3340)	1:76:A:PRO:HG2	1:75:A:LYS:HG2	4	0.34	0.08	0.35
(1,3340)	1:76:A:PRO:HG2	1:75:A:LYS:HG3	4	0.34	0.08	0.35
(1,3340)	1:76:A:PRO:HG3	1:75:A:LYS:HG2	4	0.34	0.08	0.35
(1,3340)	1:76:A:PRO:HG3	1:75:A:LYS:HG3	4	0.34	0.08	0.35
(1,5553)	1:148:A:LEU:HG	1:142:A:VAL:H	4	0.32	0.13	0.24
(1,3200)	1:184:A:LEU:HA	1:183:A:ILE:HG12	4	0.31	0.08	0.29
(1,3200)	1:184:A:LEU:HA	1:183:A:ILE:HG13	4	0.31	0.08	0.29
(1,5331)	1:75:A:LYS:H	1:71:A:GLU:HG2	4	0.3	0.09	0.29
(1,5331)	1:75:A:LYS:H	1:71:A:GLU:HG3	4	0.3	0.09	0.29
(1,5572)	1:94:A:TRP:HD1	1:94:A:TRP:H	4	0.28	0.08	0.3
(1,2842)	1:181:A:ILE:HD13	1:176:A:TYR:HB2	4	0.26	0.12	0.22
(1,2842)	1:181:A:ILE:HD13	1:176:A:TYR:HB3	4	0.26	0.12	0.22
(1,2842)	1:181:A:ILE:HD11	1:176:A:TYR:HB2	4	0.26	0.12	0.22
(1,2842)	1:181:A:ILE:HD11	1:176:A:TYR:HB3	4	0.26	0.12	0.22
(1,5313)	1:20:A:TRP:HE1	1:71:A:GLU:HG2	4	0.24	0.11	0.19
(1,5313)	1:20:A:TRP:HE1	1:71:A:GLU:HG3	4	0.24	0.11	0.19
(1,1679)	1:54:A:ILE:HG21	1:54:A:ILE:HD11	4	0.24	0.02	0.24
(1,1679)	1:54:A:ILE:HG21	1:54:A:ILE:HD12	4	0.24	0.02	0.24
(1,1679)	1:54:A:ILE:HG21	1:54:A:ILE:HD13	4	0.24	0.02	0.24
(1,1679)	1:54:A:ILE:HG22	1:54:A:ILE:HD11	4	0.24	0.02	0.24
(1,1679)	1:54:A:ILE:HG22	1:54:A:ILE:HD12	4	0.24	0.02	0.24
(1,1679)	1:54:A:ILE:HG22	1:54:A:ILE:HD13	4	0.24	0.02	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1679)	1:54:A:ILE:HG23	1:54:A:ILE:HD11	4	0.24	0.02	0.24
(1,1679)	1:54:A:ILE:HG23	1:54:A:ILE:HD12	4	0.24	0.02	0.24
(1,1679)	1:54:A:ILE:HG23	1:54:A:ILE:HD13	4	0.24	0.02	0.24
(1,3351)	1:17:A:ARG:HB2	1:60:A:LYS:HB2	4	0.22	0.03	0.22
(1,3351)	1:17:A:ARG:HB2	1:60:A:LYS:HB3	4	0.22	0.03	0.22
(1,3351)	1:17:A:ARG:HB3	1:60:A:LYS:HB2	4	0.22	0.03	0.22
(1,3351)	1:17:A:ARG:HB3	1:60:A:LYS:HB3	4	0.22	0.03	0.22
(1,3351)	1:61:A:GLU:HB2	1:60:A:LYS:HB2	4	0.22	0.03	0.22
(1,3351)	1:61:A:GLU:HB2	1:60:A:LYS:HB3	4	0.22	0.03	0.22
(1,3351)	1:61:A:GLU:HB3	1:60:A:LYS:HB2	4	0.22	0.03	0.22
(1,3351)	1:61:A:GLU:HB3	1:60:A:LYS:HB3	4	0.22	0.03	0.22
(1,5828)	1:108:A:LYS:H	1:108:A:LYS:HB2	4	0.22	0.02	0.22
(1,5828)	1:108:A:LYS:H	1:108:A:LYS:HB3	4	0.22	0.02	0.22
(1,5226)	1:82:A:SER:H	1:79:A:GLN:HA	4	0.22	0.1	0.2
(1,5226)	1:82:A:SER:H	1:78:A:LEU:HA	4	0.22	0.1	0.2
(1,4994)	1:222:A:LEU:H	1:222:A:LEU:HG	4	0.21	0.05	0.21
(1,3087)	1:85:A:LEU:H	1:83:A:ILE:HG21	4	0.2	0.03	0.2
(1,3087)	1:85:A:LEU:H	1:83:A:ILE:HG22	4	0.2	0.03	0.2
(1,3087)	1:85:A:LEU:H	1:83:A:ILE:HG23	4	0.2	0.03	0.2
(1,5314)	1:20:A:TRP:HE1	1:75:A:LYS:HG2	4	0.2	0.12	0.15
(1,5314)	1:20:A:TRP:HE1	1:75:A:LYS:HG3	4	0.2	0.12	0.15
(1,5314)	1:20:A:TRP:HE1	1:18:A:THR:HG21	4	0.2	0.12	0.15
(1,5314)	1:20:A:TRP:HE1	1:18:A:THR:HG22	4	0.2	0.12	0.15
(1,5314)	1:20:A:TRP:HE1	1:18:A:THR:HG23	4	0.2	0.12	0.15
(1,5052)	1:78:A:LEU:H	1:75:A:LYS:HB2	4	0.19	0.04	0.2
(1,5052)	1:78:A:LEU:H	1:75:A:LYS:HB3	4	0.19	0.04	0.2
(1,5052)	1:78:A:LEU:H	1:78:A:LEU:HB2	4	0.19	0.04	0.2
(1,5052)	1:78:A:LEU:H	1:78:A:LEU:HB3	4	0.19	0.04	0.2
(1,152)	1:176:A:TYR:HE1	1:181:A:ILE:HB	4	0.19	0.03	0.19
(1,152)	1:176:A:TYR:HE2	1:181:A:ILE:HB	4	0.19	0.03	0.19
(1,2948)	1:63:A:ASP:HB2	1:64:A:ILE:HA	4	0.18	0.01	0.18
(1,2948)	1:96:A:MET:HG2	1:101:A:ILE:HA	4	0.18	0.01	0.18
(1,2948)	1:63:A:ASP:HB3	1:64:A:ILE:HA	4	0.18	0.01	0.18
(1,2887)	1:101:A:ILE:HB	1:99:A:SER:H	4	0.18	0.04	0.19
(1,2212)	1:138:A:ASN:HD21	1:137:A:ILE:HA	4	0.17	0.03	0.17
(1,2212)	1:138:A:ASN:HD22	1:137:A:ILE:HA	4	0.17	0.03	0.17
(1,5689)	1:137:A:ILE:HA	1:138:A:ASN:HD21	4	0.17	0.03	0.17
(1,5689)	1:137:A:ILE:HA	1:138:A:ASN:HD22	4	0.17	0.03	0.17
(1,5813)	1:108:A:LYS:HG2	1:106:A:SER:HB2	4	0.16	0.04	0.16
(1,5813)	1:108:A:LYS:HG2	1:106:A:SER:HB3	4	0.16	0.04	0.16
(1,5813)	1:108:A:LYS:HG3	1:106:A:SER:HB2	4	0.16	0.04	0.16
(1,5813)	1:108:A:LYS:HG3	1:106:A:SER:HB3	4	0.16	0.04	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2978)	1:98:A:ILE:HG13	1:98:A:ILE:HA	4	0.15	0.02	0.15
(1,5397)	1:127:A:TYR:H	1:123:A:LEU:HD11	4	0.14	0.03	0.14
(1,5397)	1:127:A:TYR:H	1:123:A:LEU:HD12	4	0.14	0.03	0.14
(1,5397)	1:127:A:TYR:H	1:123:A:LEU:HD13	4	0.14	0.03	0.14
(1,5397)	1:127:A:TYR:H	1:123:A:LEU:HD21	4	0.14	0.03	0.14
(1,5397)	1:127:A:TYR:H	1:123:A:LEU:HD22	4	0.14	0.03	0.14
(1,5397)	1:127:A:TYR:H	1:123:A:LEU:HD23	4	0.14	0.03	0.14
(1,5397)	1:127:A:TYR:H	1:137:A:ILE:HG12	4	0.14	0.03	0.14
(1,5397)	1:127:A:TYR:H	1:137:A:ILE:HG13	4	0.14	0.03	0.14
(1,2050)	1:201:A:TYR:H	1:137:A:ILE:HD11	4	0.13	0.03	0.12
(1,2050)	1:201:A:TYR:H	1:137:A:ILE:HD12	4	0.13	0.03	0.12
(1,2050)	1:201:A:TYR:H	1:137:A:ILE:HD13	4	0.13	0.03	0.12
(1,3868)	1:102:A:LEU:HB2	1:103:A:GLU:H	4	0.13	0.02	0.13
(1,3868)	1:102:A:LEU:HB3	1:103:A:GLU:H	4	0.13	0.02	0.13
(1,1197)	1:143:A:LEU:HA	1:195:A:ALA:HB1	4	0.13	0.02	0.14
(1,1197)	1:143:A:LEU:HA	1:195:A:ALA:HB2	4	0.13	0.02	0.14
(1,1197)	1:143:A:LEU:HA	1:195:A:ALA:HB3	4	0.13	0.02	0.14
(1,4502)	1:133:A:ARG:HE	1:202:A:GLY:H	4	0.13	0.02	0.12
(1,335)	1:120:A:ASP:HB2	1:117:A:GLU:HA	4	0.12	0.01	0.12
(1,335)	1:120:A:ASP:HB3	1:117:A:GLU:HA	4	0.12	0.01	0.12
(1,175)	1:190:A:TYR:HA	1:190:A:TYR:HD1	4	0.12	0.01	0.12
(1,175)	1:190:A:TYR:HA	1:190:A:TYR:HD2	4	0.12	0.01	0.12
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG11	4	0.11	0.01	0.11
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG12	4	0.11	0.01	0.11
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG13	4	0.11	0.01	0.11
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG21	4	0.11	0.01	0.11
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG22	4	0.11	0.01	0.11
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG23	4	0.11	0.01	0.11
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG11	4	0.11	0.01	0.11
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG12	4	0.11	0.01	0.11
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG13	4	0.11	0.01	0.11
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG21	4	0.11	0.01	0.11
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG22	4	0.11	0.01	0.11
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG23	4	0.11	0.01	0.11
(1,914)	1:191:A:ASN:HD21	1:183:A:ILE:HD11	4	0.11	0.01	0.11
(1,914)	1:191:A:ASN:HD21	1:183:A:ILE:HD12	4	0.11	0.01	0.11
(1,914)	1:191:A:ASN:HD21	1:183:A:ILE:HD13	4	0.11	0.01	0.11
(1,914)	1:191:A:ASN:HD22	1:183:A:ILE:HD11	4	0.11	0.01	0.11
(1,914)	1:191:A:ASN:HD22	1:183:A:ILE:HD12	4	0.11	0.01	0.11
(1,914)	1:191:A:ASN:HD22	1:183:A:ILE:HD13	4	0.11	0.01	0.11
(1,4583)	1:98:A:ILE:HD11	1:121:A:ASN:H	4	0.11	0.0	0.11
(1,4583)	1:98:A:ILE:HD12	1:121:A:ASN:H	4	0.11	0.0	0.11

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,4583)	1:98:A:ILE:HD13	1:121:A:ASN:H	4	0.11	0.0	0.11
(1,2665)	1:47:A:ILE:HD11	1:76:A:PRO:HB2	3	0.41	0.17	0.4
(1,2665)	1:47:A:ILE:HD11	1:76:A:PRO:HB3	3	0.41	0.17	0.4
(1,2665)	1:47:A:ILE:HD13	1:48:A:ASP:HB2	3	0.41	0.17	0.4
(1,2665)	1:47:A:ILE:HD13	1:48:A:ASP:HB3	3	0.41	0.17	0.4
(1,2462)	1:197:A:ARG:HD2	1:201:A:TYR:HD1	3	0.4	0.14	0.47
(1,2462)	1:197:A:ARG:HD2	1:201:A:TYR:HD2	3	0.4	0.14	0.47
(1,2462)	1:197:A:ARG:HD3	1:201:A:TYR:HD1	3	0.4	0.14	0.47
(1,2462)	1:197:A:ARG:HD3	1:201:A:TYR:HD2	3	0.4	0.14	0.47
(1,2462)	1:197:A:ARG:HD2	1:196:A:TYR:HE1	3	0.4	0.14	0.47
(1,2462)	1:197:A:ARG:HD2	1:196:A:TYR:HE2	3	0.4	0.14	0.47
(1,5333)	1:221:A:GLU:H	1:222:A:LEU:HB2	3	0.39	0.08	0.35
(1,5333)	1:221:A:GLU:H	1:222:A:LEU:HB3	3	0.39	0.08	0.35
(1,5333)	1:221:A:GLU:H	1:222:A:LEU:HG	3	0.39	0.08	0.35
(1,3289)	1:144:A:GLY:HA2	1:184:A:LEU:HG	3	0.36	0.25	0.2
(1,3289)	1:68:A:PRO:HD2	1:72:A:LEU:HG	3	0.36	0.25	0.2
(1,2632)	1:198:A:LYS:HD3	1:139:A:LYS:HE2	3	0.33	0.07	0.37
(1,2632)	1:198:A:LYS:HD3	1:139:A:LYS:HE3	3	0.33	0.07	0.37
(1,2632)	1:198:A:LYS:HD3	1:199:A:TYR:HB2	3	0.33	0.07	0.37
(1,2632)	1:198:A:LYS:HD3	1:199:A:TYR:HB3	3	0.33	0.07	0.37
(1,2632)	1:198:A:LYS:HD2	1:199:A:TYR:HB2	3	0.33	0.07	0.37
(1,2632)	1:198:A:LYS:HD2	1:199:A:TYR:HB3	3	0.33	0.07	0.37
(1,5821)	1:108:A:LYS:HB2	1:109:A:ASP:H	3	0.32	0.02	0.32
(1,5821)	1:108:A:LYS:HB2	1:108:A:LYS:H	3	0.32	0.02	0.32
(1,3398)	1:15:A:THR:HG21	1:16:A:GLU:HG2	3	0.31	0.08	0.31
(1,3398)	1:15:A:THR:HG21	1:16:A:GLU:HG3	3	0.31	0.08	0.31
(1,3398)	1:15:A:THR:HG22	1:16:A:GLU:HG2	3	0.31	0.08	0.31
(1,3398)	1:15:A:THR:HG22	1:16:A:GLU:HG3	3	0.31	0.08	0.31
(1,3398)	1:15:A:THR:HG23	1:16:A:GLU:HG2	3	0.31	0.08	0.31
(1,3398)	1:15:A:THR:HG23	1:16:A:GLU:HG3	3	0.31	0.08	0.31
(1,5549)	1:204:A:GLU:HB2	1:201:A:TYR:H	3	0.3	0.15	0.25
(1,5549)	1:204:A:GLU:HB3	1:201:A:TYR:H	3	0.3	0.15	0.25
(1,5417)	1:10:A:SER:H	1:22:A:PRO:HB2	3	0.29	0.09	0.24
(1,5417)	1:10:A:SER:H	1:22:A:PRO:HB3	3	0.29	0.09	0.24
(1,5417)	1:10:A:SER:H	1:3:A:GLU:HB2	3	0.29	0.09	0.24
(1,5417)	1:10:A:SER:H	1:3:A:GLU:HB3	3	0.29	0.09	0.24
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD11	3	0.28	0.08	0.31
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD12	3	0.28	0.08	0.31
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD13	3	0.28	0.08	0.31
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD21	3	0.28	0.08	0.31
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD22	3	0.28	0.08	0.31
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD23	3	0.28	0.08	0.31

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3217)	1:98:A:ILE:HA	1:96:A:MET:HG2	3	0.28	0.07	0.23
(1,3217)	1:98:A:ILE:HA	1:96:A:MET:HG3	3	0.28	0.07	0.23
(1,3217)	1:128:A:LYS:HA	1:96:A:MET:HG2	3	0.28	0.07	0.23
(1,3217)	1:128:A:LYS:HA	1:96:A:MET:HG3	3	0.28	0.07	0.23
(1,5267)	1:160:A:GLN:HE21	1:175:A:ILE:HD11	3	0.27	0.05	0.27
(1,5267)	1:160:A:GLN:HE21	1:175:A:ILE:HD12	3	0.27	0.05	0.27
(1,5267)	1:160:A:GLN:HE21	1:175:A:ILE:HD13	3	0.27	0.05	0.27
(1,5267)	1:160:A:GLN:HE21	1:157:A:VAL:HG11	3	0.27	0.05	0.27
(1,5267)	1:160:A:GLN:HE21	1:157:A:VAL:HG12	3	0.27	0.05	0.27
(1,5267)	1:160:A:GLN:HE21	1:157:A:VAL:HG13	3	0.27	0.05	0.27
(1,5267)	1:160:A:GLN:HE21	1:157:A:VAL:HG21	3	0.27	0.05	0.27
(1,5267)	1:160:A:GLN:HE21	1:157:A:VAL:HG22	3	0.27	0.05	0.27
(1,5267)	1:160:A:GLN:HE21	1:157:A:VAL:HG23	3	0.27	0.05	0.27
(1,2306)	1:81:A:ALA:HA	1:78:A:LEU:HA	3	0.27	0.09	0.26
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG11	3	0.27	0.11	0.32
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG12	3	0.27	0.11	0.32
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG13	3	0.27	0.11	0.32
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG21	3	0.27	0.11	0.32
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG22	3	0.27	0.11	0.32
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG23	3	0.27	0.11	0.32
(1,2726)	1:61:A:GLU:HG3	1:60:A:LYS:HB2	3	0.23	0.09	0.23
(1,2726)	1:61:A:GLU:HG3	1:60:A:LYS:HB3	3	0.23	0.09	0.23
(1,5471)	1:79:A:GLN:HE21	1:72:A:LEU:HB2	3	0.22	0.06	0.25
(1,5471)	1:79:A:GLN:HE21	1:72:A:LEU:HB3	3	0.22	0.06	0.25
(1,5471)	1:79:A:GLN:HE22	1:72:A:LEU:HB2	3	0.22	0.06	0.25
(1,5471)	1:79:A:GLN:HE22	1:72:A:LEU:HB3	3	0.22	0.06	0.25
(1,150)	1:127:A:TYR:HE2	1:141:A:PRO:HG2	3	0.22	0.02	0.21
(1,150)	1:127:A:TYR:HE2	1:141:A:PRO:HG3	3	0.22	0.02	0.21
(1,150)	1:127:A:TYR:HE1	1:123:A:LEU:HD11	3	0.22	0.02	0.21
(1,150)	1:127:A:TYR:HE1	1:123:A:LEU:HD12	3	0.22	0.02	0.21
(1,150)	1:127:A:TYR:HE1	1:123:A:LEU:HD13	3	0.22	0.02	0.21
(1,150)	1:127:A:TYR:HE1	1:123:A:LEU:HD21	3	0.22	0.02	0.21
(1,150)	1:127:A:TYR:HE1	1:123:A:LEU:HD22	3	0.22	0.02	0.21
(1,150)	1:127:A:TYR:HE1	1:123:A:LEU:HD23	3	0.22	0.02	0.21
(1,3502)	1:22:A:PRO:HB2	1:21:A:TYR:HA	3	0.21	0.06	0.17
(1,5832)	1:109:A:ASP:H	1:108:A:LYS:HB2	3	0.21	0.02	0.2
(1,5832)	1:109:A:ASP:H	1:108:A:LYS:HB3	3	0.21	0.02	0.2
(1,5832)	1:108:A:LYS:H	1:108:A:LYS:HB2	3	0.21	0.02	0.2
(1,5832)	1:108:A:LYS:H	1:108:A:LYS:HB3	3	0.21	0.02	0.2
(1,2372)	1:96:A:MET:HE2	1:127:A:TYR:H	3	0.2	0.07	0.16
(1,2372)	1:96:A:MET:HE3	1:127:A:TYR:H	3	0.2	0.07	0.16
(1,2372)	1:96:A:MET:HE1	1:127:A:TYR:H	3	0.2	0.07	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2496)	1:46:A:PHE:HD1	1:44:A:ARG:HG2	3	0.19	0.02	0.18
(1,2496)	1:46:A:PHE:HD1	1:44:A:ARG:HG3	3	0.19	0.02	0.18
(1,2496)	1:46:A:PHE:HD2	1:23:A:ALA:HB1	3	0.19	0.02	0.18
(1,2496)	1:46:A:PHE:HD2	1:23:A:ALA:HB2	3	0.19	0.02	0.18
(1,2496)	1:46:A:PHE:HD2	1:23:A:ALA:HB3	3	0.19	0.02	0.18
(1,5623)	1:61:A:GLU:HG2	1:1:A:ASN:HD21	3	0.19	0.03	0.2
(1,5623)	1:61:A:GLU:HG2	1:1:A:ASN:HD22	3	0.19	0.03	0.2
(1,5623)	1:61:A:GLU:HG3	1:1:A:ASN:HD21	3	0.19	0.03	0.2
(1,5623)	1:61:A:GLU:HG3	1:1:A:ASN:HD22	3	0.19	0.03	0.2
(1,5103)	1:123:A:LEU:H	1:119:A:ARG:HB2	3	0.19	0.05	0.2
(1,5103)	1:123:A:LEU:H	1:119:A:ARG:HB3	3	0.19	0.05	0.2
(1,3721)	1:18:A:THR:HB	1:19:A:GLU:H	3	0.18	0.02	0.19
(1,732)	1:142:A:VAL:H	1:142:A:VAL:HB	3	0.18	0.02	0.19
(1,5792)	1:76:A:PRO:HD2	1:75:A:LYS:HB2	3	0.18	0.03	0.19
(1,5792)	1:76:A:PRO:HD2	1:75:A:LYS:HB3	3	0.18	0.03	0.19
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD11	3	0.17	0.05	0.19
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD12	3	0.17	0.05	0.19
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD13	3	0.17	0.05	0.19
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD21	3	0.17	0.05	0.19
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD22	3	0.17	0.05	0.19
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD23	3	0.17	0.05	0.19
(1,3102)	1:90:A:VAL:H	1:85:A:LEU:HD11	3	0.17	0.05	0.19
(1,3102)	1:90:A:VAL:H	1:85:A:LEU:HD12	3	0.17	0.05	0.19
(1,3102)	1:90:A:VAL:H	1:85:A:LEU:HD13	3	0.17	0.05	0.19
(1,3102)	1:90:A:VAL:H	1:85:A:LEU:HD21	3	0.17	0.05	0.19
(1,3102)	1:90:A:VAL:H	1:85:A:LEU:HD22	3	0.17	0.05	0.19
(1,3102)	1:90:A:VAL:H	1:85:A:LEU:HD23	3	0.17	0.05	0.19
(1,3507)	1:67:A:LEU:H	1:65:A:LEU:HB2	3	0.17	0.07	0.14
(1,3507)	1:67:A:LEU:H	1:65:A:LEU:HB3	3	0.17	0.07	0.14
(1,5815)	1:211:A:ASN:HB2	1:212:A:ILE:HD11	3	0.17	0.01	0.18
(1,5815)	1:211:A:ASN:HB2	1:212:A:ILE:HD12	3	0.17	0.01	0.18
(1,5815)	1:211:A:ASN:HB2	1:212:A:ILE:HD13	3	0.17	0.01	0.18
(1,5815)	1:211:A:ASN:HB3	1:212:A:ILE:HD11	3	0.17	0.01	0.18
(1,5815)	1:211:A:ASN:HB3	1:212:A:ILE:HD12	3	0.17	0.01	0.18
(1,5815)	1:211:A:ASN:HB3	1:212:A:ILE:HD13	3	0.17	0.01	0.18
(1,2869)	1:194:A:THR:HB	1:190:A:TYR:HD1	3	0.17	0.01	0.18
(1,2869)	1:194:A:THR:HB	1:190:A:TYR:HD2	3	0.17	0.01	0.18
(1,5235)	1:70:A:SER:H	1:69:A:GLU:HB2	3	0.17	0.05	0.15
(1,5235)	1:70:A:SER:H	1:69:A:GLU:HB3	3	0.17	0.05	0.15
(1,5359)	1:6:A:GLY:H	1:25:A:VAL:H	3	0.16	0.02	0.15
(1,2922)	1:64:A:ILE:HD12	1:62:A:VAL:HB	3	0.16	0.03	0.15
(1,2922)	1:64:A:ILE:HD13	1:85:A:LEU:HB2	3	0.16	0.03	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2922)	1:64:A:ILE:HD13	1:85:A:LEU:HB3	3	0.16	0.03	0.15
(1,2922)	1:64:A:ILE:HD11	1:62:A:VAL:HB	3	0.16	0.03	0.15
(1,3848)	1:223:A:GLU:HG2	1:223:A:GLU:H	3	0.15	0.02	0.15
(1,3848)	1:223:A:GLU:HG3	1:223:A:GLU:H	3	0.15	0.02	0.15
(1,5789)	1:108:A:LYS:H	1:107:A:SER:HB2	3	0.15	0.06	0.11
(1,5789)	1:108:A:LYS:H	1:107:A:SER:HB3	3	0.15	0.06	0.11
(1,3236)	1:17:A:ARG:HA	1:17:A:ARG:HD2	3	0.15	0.03	0.16
(1,3236)	1:17:A:ARG:HA	1:17:A:ARG:HD3	3	0.15	0.03	0.16
(1,5382)	1:74:A:THR:H	1:79:A:GLN:HB2	3	0.15	0.05	0.13
(1,5382)	1:74:A:THR:H	1:79:A:GLN:HB3	3	0.15	0.05	0.13
(1,5382)	1:74:A:THR:H	1:71:A:GLU:HG2	3	0.15	0.05	0.13
(1,5382)	1:74:A:THR:H	1:71:A:GLU:HG3	3	0.15	0.05	0.13
(1,4267)	1:198:A:LYS:HB2	1:199:A:TYR:H	3	0.14	0.01	0.14
(1,4267)	1:198:A:LYS:HB3	1:199:A:TYR:H	3	0.14	0.01	0.14
(1,5453)	1:172:A:TRP:H	1:174:A:GLN:HB2	3	0.14	0.03	0.13
(1,5453)	1:172:A:TRP:H	1:174:A:GLN:HB3	3	0.14	0.03	0.13
(1,249)	1:133:A:ARG:H	1:136:A:PRO:HA	3	0.13	0.04	0.11
(1,627)	1:10:A:SER:H	1:62:A:VAL:HB	3	0.13	0.02	0.14
(1,2398)	1:9:A:VAL:HG22	1:10:A:SER:H	3	0.13	0.02	0.15
(1,2398)	1:9:A:VAL:HG22	1:25:A:VAL:H	3	0.13	0.02	0.15
(1,2398)	1:9:A:VAL:HG23	1:10:A:SER:H	3	0.13	0.02	0.15
(1,3871)	1:198:A:LYS:HB2	1:201:A:TYR:H	3	0.13	0.03	0.12
(1,3871)	1:198:A:LYS:HB3	1:201:A:TYR:H	3	0.13	0.03	0.12
(1,5361)	1:199:A:TYR:H	1:197:A:ARG:HB2	3	0.13	0.03	0.12
(1,5361)	1:199:A:TYR:H	1:197:A:ARG:HB3	3	0.13	0.03	0.12
(1,5361)	1:199:A:TYR:H	1:150:A:LEU:HB2	3	0.13	0.03	0.12
(1,5361)	1:199:A:TYR:H	1:150:A:LEU:HB3	3	0.13	0.03	0.12
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD11	3	0.13	0.03	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD12	3	0.13	0.03	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD13	3	0.13	0.03	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD21	3	0.13	0.03	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD22	3	0.13	0.03	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD23	3	0.13	0.03	0.11
(1,3201)	1:2:A:ASP:HA	1:5:A:LEU:HG	3	0.13	0.03	0.11
(1,707)	1:17:A:ARG:H	1:18:A:THR:HG21	3	0.12	0.03	0.11
(1,707)	1:17:A:ARG:H	1:18:A:THR:HG22	3	0.12	0.03	0.11
(1,707)	1:17:A:ARG:H	1:18:A:THR:HG23	3	0.12	0.03	0.11
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD11	3	0.12	0.01	0.12
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD12	3	0.12	0.01	0.12
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD13	3	0.12	0.01	0.12
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD21	3	0.12	0.01	0.12
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD22	3	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD23	3	0.12	0.01	0.12
(1,5135)	1:99:A:SER:H	1:101:A:ILE:HD11	3	0.12	0.01	0.13
(1,5135)	1:99:A:SER:H	1:101:A:ILE:HD12	3	0.12	0.01	0.13
(1,5135)	1:99:A:SER:H	1:101:A:ILE:HD13	3	0.12	0.01	0.13
(1,725)	1:210:A:ALA:H	1:212:A:ILE:HB	3	0.12	0.01	0.11
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD11	3	0.12	0.01	0.12
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD12	3	0.12	0.01	0.12
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD13	3	0.12	0.01	0.12
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD21	3	0.12	0.01	0.12
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD22	3	0.12	0.01	0.12
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD23	3	0.12	0.01	0.12
(1,5851)	1:113:A:GLU:H	1:113:A:GLU:HA	3	0.12	0.0	0.12
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD11	3	0.11	0.01	0.11
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD12	3	0.11	0.01	0.11
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD13	3	0.11	0.01	0.11
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD21	3	0.11	0.01	0.11
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD22	3	0.11	0.01	0.11
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD23	3	0.11	0.01	0.11
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD11	3	0.11	0.01	0.11
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD12	3	0.11	0.01	0.11
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD13	3	0.11	0.01	0.11
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD21	3	0.11	0.01	0.11
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD22	3	0.11	0.01	0.11
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD23	3	0.11	0.01	0.11
(1,5497)	1:3:A:GLU:H	1:3:A:GLU:HB2	3	0.11	0.0	0.11
(1,5497)	1:3:A:GLU:H	1:3:A:GLU:HB3	3	0.11	0.0	0.11
(1,248)	1:130:A:MET:H	1:136:A:PRO:HA	3	0.11	0.01	0.1
(1,5808)	1:4:A:LEU:HA	1:4:A:LEU:HG	3	0.11	0.0	0.11
(1,161)	1:52:A:TYR:HE1	1:11:A:VAL:HG11	2	0.76	0.07	0.76
(1,161)	1:52:A:TYR:HE1	1:11:A:VAL:HG12	2	0.76	0.07	0.76
(1,161)	1:52:A:TYR:HE1	1:11:A:VAL:HG13	2	0.76	0.07	0.76
(1,161)	1:52:A:TYR:HE1	1:11:A:VAL:HG21	2	0.76	0.07	0.76
(1,161)	1:52:A:TYR:HE1	1:11:A:VAL:HG22	2	0.76	0.07	0.76
(1,161)	1:52:A:TYR:HE1	1:11:A:VAL:HG23	2	0.76	0.07	0.76
(1,161)	1:52:A:TYR:HE2	1:11:A:VAL:HG11	2	0.76	0.07	0.76
(1,161)	1:52:A:TYR:HE2	1:11:A:VAL:HG12	2	0.76	0.07	0.76
(1,161)	1:52:A:TYR:HE2	1:11:A:VAL:HG13	2	0.76	0.07	0.76
(1,161)	1:52:A:TYR:HE2	1:11:A:VAL:HG21	2	0.76	0.07	0.76
(1,161)	1:52:A:TYR:HE2	1:11:A:VAL:HG22	2	0.76	0.07	0.76
(1,161)	1:52:A:TYR:HE2	1:11:A:VAL:HG23	2	0.76	0.07	0.76
(1,5375)	1:202:A:GLY:H	1:204:A:GLU:HB2	2	0.62	0.07	0.62
(1,5375)	1:202:A:GLY:H	1:204:A:GLU:HB3	2	0.62	0.07	0.62

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2468)	1:84:A:PHE:HE1	1:88:A:ARG:HG2	2	0.52	0.04	0.52
(1,2468)	1:84:A:PHE:HE1	1:88:A:ARG:HG3	2	0.52	0.04	0.52
(1,2468)	1:84:A:PHE:HE2	1:88:A:ARG:HB2	2	0.52	0.04	0.52
(1,2468)	1:84:A:PHE:HE2	1:88:A:ARG:HB3	2	0.52	0.04	0.52
(1,5797)	1:71:A:GLU:HA	1:68:A:PRO:HD2	2	0.5	0.0	0.5
(1,5797)	1:71:A:GLU:HA	1:68:A:PRO:HD3	2	0.5	0.0	0.5
(1,5795)	1:167:A:ASP:HB2	1:168:A:SER:HB2	2	0.49	0.06	0.49
(1,5795)	1:167:A:ASP:HB2	1:168:A:SER:HB3	2	0.49	0.06	0.49
(1,5804)	1:167:A:ASP:HB2	1:168:A:SER:HB2	2	0.49	0.06	0.49
(1,5804)	1:167:A:ASP:HB2	1:168:A:SER:HB3	2	0.49	0.06	0.49
(1,2669)	1:85:A:LEU:HD12	1:8:A:VAL:HB	2	0.46	0.13	0.46
(1,5490)	1:63:A:ASP:H	1:61:A:GLU:HB2	2	0.46	0.12	0.46
(1,5490)	1:63:A:ASP:H	1:61:A:GLU:HB3	2	0.46	0.12	0.46
(1,5490)	1:63:A:ASP:H	1:67:A:LEU:HG	2	0.46	0.12	0.46
(1,5252)	1:88:A:ARG:HE	1:46:A:PHE:HB2	2	0.44	0.09	0.44
(1,5252)	1:88:A:ARG:HE	1:46:A:PHE:HB3	2	0.44	0.09	0.44
(1,5252)	1:88:A:ARG:HE	1:88:A:ARG:HA	2	0.44	0.09	0.44
(1,3338)	1:100:A:GLU:HB2	1:101:A:ILE:HG12	2	0.43	0.15	0.43
(1,3338)	1:100:A:GLU:HB2	1:101:A:ILE:HG13	2	0.43	0.15	0.43
(1,5266)	1:211:A:ASN:HD21	1:210:A:ALA:HB1	2	0.41	0.03	0.41
(1,5266)	1:211:A:ASN:HD21	1:210:A:ALA:HB2	2	0.41	0.03	0.41
(1,5266)	1:211:A:ASN:HD21	1:210:A:ALA:HB3	2	0.41	0.03	0.41
(1,132)	1:154:A:PHE:HD1	1:158:A:TYR:HB2	2	0.34	0.16	0.34
(1,132)	1:154:A:PHE:HD1	1:158:A:TYR:HB3	2	0.34	0.16	0.34
(1,3317)	1:39:A:ASP:HB3	1:38:A:LYS:HG2	2	0.32	0.09	0.32
(1,3317)	1:39:A:ASP:HB3	1:38:A:LYS:HG3	2	0.32	0.09	0.32
(1,3317)	1:39:A:ASP:HB2	1:38:A:LYS:HG2	2	0.32	0.09	0.32
(1,3317)	1:39:A:ASP:HB2	1:38:A:LYS:HG3	2	0.32	0.09	0.32
(1,5663)	1:160:A:GLN:HB2	1:157:A:VAL:H	2	0.32	0.02	0.32
(1,5663)	1:38:A:LYS:HG3	1:40:A:GLN:H	2	0.32	0.02	0.32
(1,5849)	1:113:A:GLU:HG3	1:113:A:GLU:HA	2	0.32	0.01	0.32
(1,5404)	1:89:A:VAL:H	1:89:A:VAL:HB	2	0.29	0.02	0.29
(1,5791)	1:102:A:LEU:HB2	1:105:A:SER:HB2	2	0.28	0.12	0.28
(1,5791)	1:102:A:LEU:HB2	1:105:A:SER:HB3	2	0.28	0.12	0.28
(1,5791)	1:102:A:LEU:HB3	1:105:A:SER:HB2	2	0.28	0.12	0.28
(1,5791)	1:102:A:LEU:HB3	1:105:A:SER:HB3	2	0.28	0.12	0.28
(1,2485)	1:34:A:ILE:HG12	1:51:A:PHE:HD1	2	0.26	0.08	0.26
(1,2485)	1:34:A:ILE:HG12	1:51:A:PHE:HD2	2	0.26	0.08	0.26
(1,3429)	1:181:A:ILE:HG21	1:182:A:PRO:HG2	2	0.26	0.08	0.26
(1,3429)	1:181:A:ILE:HG21	1:182:A:PRO:HG3	2	0.26	0.08	0.26
(1,3429)	1:181:A:ILE:HG22	1:182:A:PRO:HG2	2	0.26	0.08	0.26
(1,3429)	1:181:A:ILE:HG22	1:182:A:PRO:HG3	2	0.26	0.08	0.26

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3429)	1:181:A:ILE:HG23	1:182:A:PRO:HG2	2	0.26	0.08	0.26
(1,3429)	1:181:A:ILE:HG23	1:182:A:PRO:HG3	2	0.26	0.08	0.26
(1,3429)	1:184:A:LEU:HD11	1:182:A:PRO:HG2	2	0.26	0.08	0.26
(1,3429)	1:184:A:LEU:HD11	1:182:A:PRO:HG3	2	0.26	0.08	0.26
(1,3429)	1:184:A:LEU:HD12	1:182:A:PRO:HG2	2	0.26	0.08	0.26
(1,3429)	1:184:A:LEU:HD12	1:182:A:PRO:HG3	2	0.26	0.08	0.26
(1,3429)	1:184:A:LEU:HD13	1:182:A:PRO:HG2	2	0.26	0.08	0.26
(1,3429)	1:184:A:LEU:HD13	1:182:A:PRO:HG3	2	0.26	0.08	0.26
(1,3429)	1:184:A:LEU:HD21	1:182:A:PRO:HG2	2	0.26	0.08	0.26
(1,3429)	1:184:A:LEU:HD21	1:182:A:PRO:HG3	2	0.26	0.08	0.26
(1,3429)	1:184:A:LEU:HD22	1:182:A:PRO:HG2	2	0.26	0.08	0.26
(1,3429)	1:184:A:LEU:HD22	1:182:A:PRO:HG3	2	0.26	0.08	0.26
(1,3429)	1:184:A:LEU:HD23	1:182:A:PRO:HG2	2	0.26	0.08	0.26
(1,3429)	1:184:A:LEU:HD23	1:182:A:PRO:HG3	2	0.26	0.08	0.26
(1,2564)	1:157:A:VAL:HG12	1:153:A:LEU:HA	2	0.25	0.15	0.25
(1,2607)	1:137:A:ILE:HD13	1:127:A:TYR:HA	2	0.24	0.03	0.24
(1,2607)	1:137:A:ILE:HD13	1:141:A:PRO:HD2	2	0.24	0.03	0.24
(1,2607)	1:137:A:ILE:HD13	1:141:A:PRO:HD3	2	0.24	0.03	0.24
(1,2837)	1:34:A:ILE:HG12	1:51:A:PHE:HA	2	0.24	0.12	0.24
(1,2840)	1:22:A:PRO:HA	1:81:A:ALA:HB1	2	0.24	0.02	0.24
(1,2840)	1:22:A:PRO:HA	1:81:A:ALA:HB2	2	0.24	0.02	0.24
(1,2840)	1:22:A:PRO:HA	1:81:A:ALA:HB3	2	0.24	0.02	0.24
(1,2314)	1:88:A:ARG:HA	1:88:A:ARG:HE	2	0.23	0.12	0.23
(1,2314)	1:88:A:ARG:HA	1:94:A:TRP:HD1	2	0.23	0.12	0.23
(1,2958)	1:72:A:LEU:H	1:70:A:SER:HB2	2	0.22	0.02	0.22
(1,2958)	1:72:A:LEU:H	1:70:A:SER:HB3	2	0.22	0.02	0.22
(1,2533)	1:9:A:VAL:HG22	1:25:A:VAL:HA	2	0.22	0.02	0.22
(1,2533)	1:9:A:VAL:HG21	1:25:A:VAL:HA	2	0.22	0.02	0.22
(1,5626)	1:142:A:VAL:HG11	1:145:A:TYR:H	2	0.21	0.06	0.21
(1,5626)	1:64:A:ILE:HG21	1:82:A:SER:H	2	0.21	0.06	0.21
(1,2946)	1:190:A:TYR:HB2	1:189:A:SER:HB2	2	0.2	0.02	0.2
(1,2946)	1:190:A:TYR:HB2	1:189:A:SER:HB3	2	0.2	0.02	0.2
(1,3524)	1:58:A:ASP:H	1:57:A:LYS:HE2	2	0.2	0.09	0.2
(1,3524)	1:58:A:ASP:H	1:57:A:LYS:HE3	2	0.2	0.09	0.2
(1,3524)	1:198:A:LYS:H	1:197:A:ARG:HD2	2	0.2	0.09	0.2
(1,3524)	1:198:A:LYS:H	1:197:A:ARG:HD3	2	0.2	0.09	0.2
(1,2497)	1:46:A:PHE:HD1	1:85:A:LEU:HD11	2	0.2	0.07	0.2
(1,2497)	1:46:A:PHE:HD1	1:85:A:LEU:HD12	2	0.2	0.07	0.2
(1,2497)	1:46:A:PHE:HD1	1:85:A:LEU:HD13	2	0.2	0.07	0.2
(1,2497)	1:46:A:PHE:HD1	1:85:A:LEU:HD21	2	0.2	0.07	0.2
(1,2497)	1:46:A:PHE:HD1	1:85:A:LEU:HD22	2	0.2	0.07	0.2
(1,2497)	1:46:A:PHE:HD1	1:85:A:LEU:HD23	2	0.2	0.07	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2497)	1:46:A:PHE:HD1	1:24:A:LEU:HD11	2	0.2	0.07	0.2
(1,2497)	1:46:A:PHE:HD1	1:24:A:LEU:HD12	2	0.2	0.07	0.2
(1,2497)	1:46:A:PHE:HD1	1:24:A:LEU:HD13	2	0.2	0.07	0.2
(1,2497)	1:46:A:PHE:HD1	1:24:A:LEU:HD21	2	0.2	0.07	0.2
(1,2497)	1:46:A:PHE:HD1	1:24:A:LEU:HD22	2	0.2	0.07	0.2
(1,2497)	1:46:A:PHE:HD1	1:24:A:LEU:HD23	2	0.2	0.07	0.2
(1,2498)	1:46:A:PHE:HD1	1:85:A:LEU:HD11	2	0.2	0.07	0.2
(1,2498)	1:46:A:PHE:HD1	1:85:A:LEU:HD12	2	0.2	0.07	0.2
(1,2498)	1:46:A:PHE:HD1	1:85:A:LEU:HD13	2	0.2	0.07	0.2
(1,2498)	1:46:A:PHE:HD1	1:85:A:LEU:HD21	2	0.2	0.07	0.2
(1,2498)	1:46:A:PHE:HD1	1:85:A:LEU:HD22	2	0.2	0.07	0.2
(1,2498)	1:46:A:PHE:HD1	1:85:A:LEU:HD23	2	0.2	0.07	0.2
(1,2498)	1:46:A:PHE:HD1	1:24:A:LEU:HD11	2	0.2	0.07	0.2
(1,2498)	1:46:A:PHE:HD1	1:24:A:LEU:HD12	2	0.2	0.07	0.2
(1,2498)	1:46:A:PHE:HD1	1:24:A:LEU:HD13	2	0.2	0.07	0.2
(1,2498)	1:46:A:PHE:HD1	1:24:A:LEU:HD21	2	0.2	0.07	0.2
(1,2498)	1:46:A:PHE:HD1	1:24:A:LEU:HD22	2	0.2	0.07	0.2
(1,2498)	1:46:A:PHE:HD1	1:24:A:LEU:HD23	2	0.2	0.07	0.2
(1,111)	1:20:A:TRP:HZ2	1:67:A:LEU:HB2	2	0.2	0.08	0.2
(1,111)	1:20:A:TRP:HZ2	1:67:A:LEU:HB3	2	0.2	0.08	0.2
(1,5536)	1:183:A:ILE:HG13	1:188:A:ALA:H	2	0.2	0.05	0.2
(1,5592)	1:43:A:VAL:HG11	1:44:A:ARG:H	2	0.18	0.08	0.18
(1,5592)	1:43:A:VAL:HG12	1:44:A:ARG:H	2	0.18	0.08	0.18
(1,2587)	1:137:A:ILE:HG13	1:127:A:TYR:HA	2	0.18	0.01	0.18
(1,3402)	1:35:A:THR:HG23	1:36:A:VAL:HB	2	0.18	0.06	0.18
(1,3402)	1:35:A:THR:HG22	1:36:A:VAL:HB	2	0.18	0.06	0.18
(1,5151)	1:105:A:SER:H	1:105:A:SER:HB2	2	0.18	0.08	0.18
(1,5151)	1:105:A:SER:H	1:105:A:SER:HB3	2	0.18	0.08	0.18
(1,117)	1:52:A:TYR:HD2	1:52:A:TYR:H	2	0.17	0.07	0.17
(1,5145)	1:52:A:TYR:HD2	1:52:A:TYR:H	2	0.17	0.07	0.17
(1,2977)	1:62:A:VAL:HB	1:62:A:VAL:HA	2	0.16	0.01	0.16
(1,2458)	1:171:A:VAL:HG12	1:174:A:GLN:H	2	0.16	0.01	0.16
(1,2458)	1:171:A:VAL:HG13	1:174:A:GLN:H	2	0.16	0.01	0.16
(1,5691)	1:22:A:PRO:HG3	1:23:A:ALA:H	2	0.16	0.0	0.16
(1,2257)	1:101:A:ILE:HA	1:100:A:GLU:H	2	0.16	0.04	0.16
(1,3846)	1:111:A:GLU:HG2	1:111:A:GLU:H	2	0.16	0.01	0.16
(1,3846)	1:111:A:GLU:HG3	1:111:A:GLU:H	2	0.16	0.01	0.16
(1,5041)	1:20:A:TRP:H	1:19:A:GLU:HG2	2	0.16	0.02	0.16
(1,5041)	1:20:A:TRP:H	1:19:A:GLU:HG3	2	0.16	0.02	0.16
(2,320)	1:118:A:GLU:CB	1:114:A:LEU:N	2	0.15	0.0	0.15
(1,34)	1:146:A:LYS:HB2	1:145:A:TYR:HD1	2	0.15	0.0	0.15
(1,34)	1:146:A:LYS:HB2	1:145:A:TYR:HD2	2	0.15	0.0	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,34)	1:146:A:LYS:HB3	1:145:A:TYR:HD1	2	0.15	0.0	0.15
(1,34)	1:146:A:LYS:HB3	1:145:A:TYR:HD2	2	0.15	0.0	0.15
(1,3849)	1:109:A:ASP:HB2	1:109:A:ASP:H	2	0.15	0.02	0.15
(1,3849)	1:109:A:ASP:HB3	1:109:A:ASP:H	2	0.15	0.02	0.15
(1,5845)	1:111:A:GLU:H	1:111:A:GLU:HA	2	0.15	0.0	0.15
(1,58)	1:96:A:MET:HB2	1:127:A:TYR:HD1	2	0.14	0.02	0.14
(1,58)	1:96:A:MET:HB2	1:127:A:TYR:HD2	2	0.14	0.02	0.14
(1,58)	1:96:A:MET:HB3	1:127:A:TYR:HD1	2	0.14	0.02	0.14
(1,58)	1:96:A:MET:HB3	1:127:A:TYR:HD2	2	0.14	0.02	0.14
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG11	2	0.14	0.04	0.14
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG12	2	0.14	0.04	0.14
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG13	2	0.14	0.04	0.14
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG21	2	0.14	0.04	0.14
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG22	2	0.14	0.04	0.14
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG23	2	0.14	0.04	0.14
(1,3669)	1:112:A:LYS:HB2	1:113:A:GLU:H	2	0.14	0.02	0.14
(1,3669)	1:112:A:LYS:HB3	1:113:A:GLU:H	2	0.14	0.02	0.14
(1,5546)	1:8:A:VAL:HB	1:8:A:VAL:H	2	0.14	0.02	0.14
(1,4775)	1:60:A:LYS:HG2	1:59:A:ILE:H	2	0.13	0.02	0.13
(1,4775)	1:60:A:LYS:HG3	1:59:A:ILE:H	2	0.13	0.02	0.13
(1,2630)	1:47:A:ILE:HD11	1:21:A:TYR:HB2	2	0.12	0.02	0.12
(1,2630)	1:47:A:ILE:HD11	1:21:A:TYR:HB3	2	0.12	0.02	0.12
(1,2839)	1:11:A:VAL:HG21	1:23:A:ALA:HA	2	0.12	0.02	0.12
(1,2839)	1:11:A:VAL:HG22	1:23:A:ALA:HA	2	0.12	0.02	0.12
(1,3774)	1:43:A:VAL:HG11	1:24:A:LEU:H	2	0.12	0.02	0.12
(1,3774)	1:43:A:VAL:HG12	1:24:A:LEU:H	2	0.12	0.02	0.12
(1,3774)	1:43:A:VAL:HG13	1:24:A:LEU:H	2	0.12	0.02	0.12
(1,3774)	1:43:A:VAL:HG21	1:24:A:LEU:H	2	0.12	0.02	0.12
(1,3774)	1:43:A:VAL:HG22	1:24:A:LEU:H	2	0.12	0.02	0.12
(1,3774)	1:43:A:VAL:HG23	1:24:A:LEU:H	2	0.12	0.02	0.12
(1,3982)	1:50:A:LYS:HD2	1:50:A:LYS:H	2	0.12	0.01	0.12
(1,3982)	1:50:A:LYS:HD3	1:50:A:LYS:H	2	0.12	0.01	0.12
(1,4745)	1:177:A:MET:HA	1:174:A:GLN:HE21	2	0.12	0.02	0.12
(1,4745)	1:177:A:MET:HA	1:174:A:GLN:HE22	2	0.12	0.02	0.12
(1,4922)	1:11:A:VAL:H	1:20:A:TRP:HD1	2	0.12	0.01	0.12
(2,36)	1:4:A:LEU:CB	1:210:A:ALA:N	2	0.12	0.02	0.12
(1,687)	1:2:A:ASP:H	1:61:A:GLU:HB2	2	0.12	0.01	0.12
(1,687)	1:2:A:ASP:H	1:61:A:GLU:HB3	2	0.12	0.01	0.12
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD11	2	0.12	0.01	0.12
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD12	2	0.12	0.01	0.12
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD13	2	0.12	0.01	0.12
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD21	2	0.12	0.01	0.12

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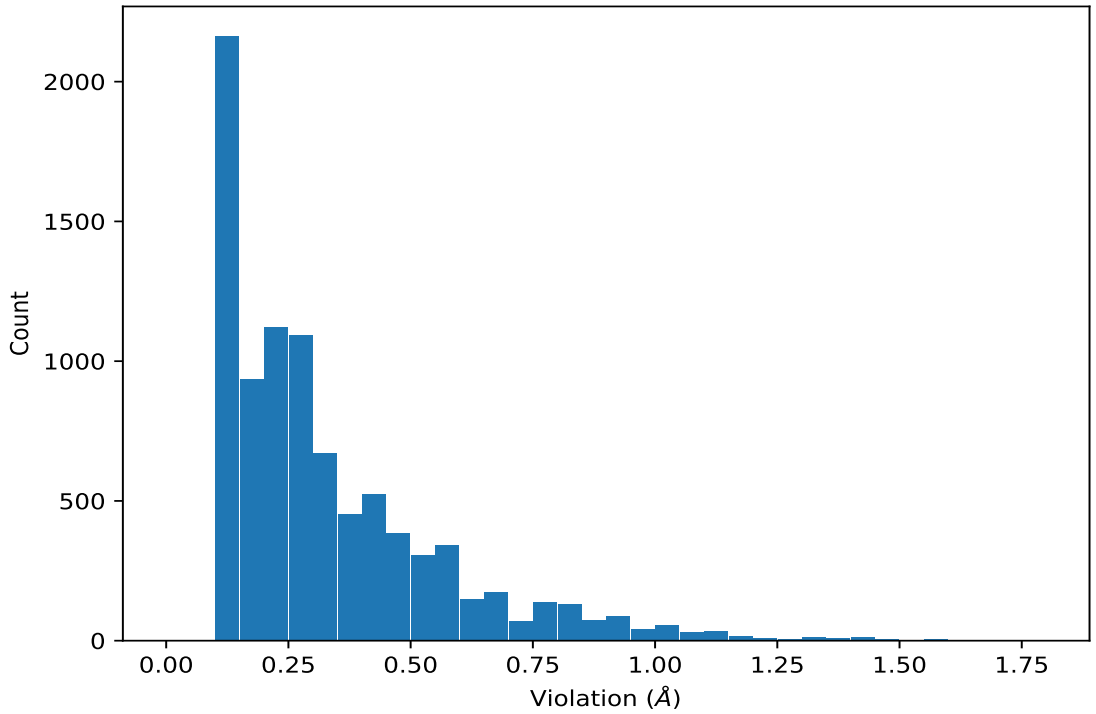
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD22	2	0.12	0.01	0.12
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD23	2	0.12	0.01	0.12
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD11	2	0.12	0.01	0.12
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD12	2	0.12	0.01	0.12
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD13	2	0.12	0.01	0.12
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD21	2	0.12	0.01	0.12
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD22	2	0.12	0.01	0.12
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD23	2	0.12	0.01	0.12
(1,3927)	1:46:A:PHE:HE1	1:80:A:LYS:H	2	0.12	0.02	0.12
(1,3927)	1:46:A:PHE:HE2	1:80:A:LYS:H	2	0.12	0.02	0.12
(1,4956)	1:178:A:ASP:H	1:175:A:ILE:HG12	2	0.12	0.02	0.12
(1,4956)	1:178:A:ASP:H	1:175:A:ILE:HG13	2	0.12	0.02	0.12
(1,3486)	1:2:A:ASP:H	1:1:A:ASN:HB2	2	0.12	0.0	0.12
(1,3486)	1:2:A:ASP:H	1:1:A:ASN:HB3	2	0.12	0.0	0.12
(1,731)	1:148:A:LEU:H	1:142:A:VAL:HB	2	0.11	0.01	0.11
(1,955)	1:196:A:TYR:HE1	1:175:A:ILE:HG21	2	0.11	0.01	0.11
(1,955)	1:196:A:TYR:HE1	1:175:A:ILE:HG22	2	0.11	0.01	0.11
(1,955)	1:196:A:TYR:HE1	1:175:A:ILE:HG23	2	0.11	0.01	0.11
(1,955)	1:196:A:TYR:HE2	1:175:A:ILE:HG21	2	0.11	0.01	0.11
(1,955)	1:196:A:TYR:HE2	1:175:A:ILE:HG22	2	0.11	0.01	0.11
(1,955)	1:196:A:TYR:HE2	1:175:A:ILE:HG23	2	0.11	0.01	0.11
(1,4528)	1:205:A:GLU:HB2	1:29:A:SER:H	2	0.11	0.01	0.11
(1,4528)	1:205:A:GLU:HB3	1:29:A:SER:H	2	0.11	0.01	0.11
(1,5413)	1:170:A:ALA:H	1:168:A:SER:H	2	0.11	0.01	0.11
(4,59)	1:206:A:TYR:H	1:202:A:GLY:O	2	0.11	0.0	0.11
(1,3619)	1:15:A:THR:HG21	1:14:A:ALA:H	2	0.1	0.0	0.1
(1,3619)	1:15:A:THR:HG22	1:14:A:ALA:H	2	0.1	0.0	0.1
(1,3619)	1:15:A:THR:HG23	1:14:A:ALA:H	2	0.1	0.0	0.1

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

9.5 All violated distance restraints (i)

9.5.1 Histogram : Distribution of distance violations (i)

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



9.5.2 Table : All distance violations (i)

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5734)	1:54:A:ILE:HG21	1:11:A:VAL:H	19	1.78
(1,5734)	1:54:A:ILE:HG22	1:11:A:VAL:H	8	1.66
(1,5734)	1:54:A:ILE:HG21	1:60:A:LYS:H	20	1.64
(1,5734)	1:54:A:ILE:HG21	1:11:A:VAL:H	3	1.59
(1,2459)	1:90:A:VAL:HG23	1:94:A:TRP:HZ3	2	1.59
(1,2457)	1:90:A:VAL:HG23	1:94:A:TRP:HZ3	2	1.59
(1,2459)	1:90:A:VAL:HG13	1:94:A:TRP:HZ3	14	1.57
(1,2457)	1:90:A:VAL:HG13	1:94:A:TRP:HZ3	14	1.57
(1,5734)	1:54:A:ILE:HG22	1:11:A:VAL:H	14	1.56
(1,5734)	1:54:A:ILE:HG22	1:11:A:VAL:H	15	1.56
(1,2538)	1:183:A:ILE:HD11	1:172:A:TRP:HA	8	1.51
(1,5787)	1:98:A:ILE:HD13	1:100:A:GLU:H	7	1.5
(1,2538)	1:183:A:ILE:HD13	1:182:A:PRO:HA	20	1.49
(1,5734)	1:54:A:ILE:HG22	1:11:A:VAL:H	11	1.47
(1,2538)	1:183:A:ILE:HD12	1:182:A:PRO:HA	1	1.47
(1,2538)	1:183:A:ILE:HD13	1:184:A:LEU:HA	5	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2459)	1:90:A:VAL:HG13	1:94:A:TRP:HZ3	4	1.46
(1,2457)	1:90:A:VAL:HG13	1:94:A:TRP:HZ3	4	1.46
(1,5787)	1:98:A:ILE:HD11	1:100:A:GLU:H	4	1.45
(1,2538)	1:183:A:ILE:HD12	1:182:A:PRO:HA	6	1.45
(1,5787)	1:98:A:ILE:HD13	1:100:A:GLU:H	2	1.44
(1,5734)	1:54:A:ILE:HG23	1:60:A:LYS:H	2	1.43
(1,2459)	1:90:A:VAL:HG23	1:94:A:TRP:HZ3	1	1.43
(1,2457)	1:90:A:VAL:HG23	1:94:A:TRP:HZ3	1	1.43
(1,5734)	1:54:A:ILE:HG21	1:11:A:VAL:H	17	1.42
(1,2538)	1:183:A:ILE:HD12	1:182:A:PRO:HA	11	1.42
(1,2538)	1:183:A:ILE:HD12	1:172:A:TRP:HA	12	1.42
(1,2843)	1:181:A:ILE:HD11	1:153:A:LEU:HB2	8	1.41
(1,2843)	1:181:A:ILE:HD11	1:153:A:LEU:HB3	8	1.41
(1,2843)	1:181:A:ILE:HD13	1:182:A:PRO:HG2	16	1.39
(1,2843)	1:181:A:ILE:HD13	1:182:A:PRO:HG3	16	1.39
(1,5734)	1:54:A:ILE:HG22	1:53:A:SER:H	12	1.38
(1,2538)	1:183:A:ILE:HD13	1:182:A:PRO:HA	18	1.38
(1,5734)	1:54:A:ILE:HG21	1:11:A:VAL:H	13	1.37
(1,2459)	1:90:A:VAL:HG12	1:94:A:TRP:HZ3	5	1.37
(1,2457)	1:90:A:VAL:HG12	1:94:A:TRP:HZ3	5	1.37
(1,2538)	1:183:A:ILE:HD12	1:172:A:TRP:HA	15	1.36
(1,2843)	1:181:A:ILE:HD13	1:153:A:LEU:HB2	3	1.34
(1,2843)	1:181:A:ILE:HD13	1:153:A:LEU:HB3	3	1.34
(1,2538)	1:183:A:ILE:HD11	1:182:A:PRO:HA	3	1.34
(1,2538)	1:183:A:ILE:HD13	1:182:A:PRO:HA	10	1.34
(1,5787)	1:98:A:ILE:HD11	1:100:A:GLU:H	6	1.33
(1,2538)	1:183:A:ILE:HD11	1:182:A:PRO:HA	13	1.33
(1,5788)	1:98:A:ILE:HD13	1:97:A:ASP:HA	9	1.32
(1,5734)	1:54:A:ILE:HG21	1:11:A:VAL:H	1	1.32
(1,2848)	1:11:A:VAL:HG23	1:43:A:VAL:H	18	1.32
(1,5734)	1:54:A:ILE:HG22	1:11:A:VAL:H	16	1.31
(1,2920)	1:54:A:ILE:HD11	1:58:A:ASP:HA	20	1.31
(1,3339)	1:7:A:LYS:HB3	1:5:A:LEU:HG	19	1.3
(1,2920)	1:54:A:ILE:HD13	1:52:A:TYR:HA	16	1.3
(1,2539)	1:54:A:ILE:HD12	1:11:A:VAL:HA	12	1.3
(1,2606)	1:64:A:ILE:HD13	1:82:A:SER:HA	6	1.29
(1,5787)	1:98:A:ILE:HD13	1:100:A:GLU:H	11	1.28
(1,2538)	1:183:A:ILE:HD12	1:182:A:PRO:HA	19	1.28
(1,2606)	1:64:A:ILE:HD11	1:78:A:LEU:HA	2	1.27
(1,5787)	1:98:A:ILE:HD11	1:103:A:GLU:H	8	1.26
(1,5787)	1:98:A:ILE:HD11	1:103:A:GLU:H	15	1.24
(1,2692)	1:195:A:ALA:HB2	1:153:A:LEU:HG	1	1.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5734)	1:54:A:ILE:HG23	1:11:A:VAL:H	7	1.23
(1,2920)	1:54:A:ILE:HD12	1:52:A:TYR:HA	3	1.23
(1,2539)	1:54:A:ILE:HD11	1:14:A:ALA:HA	20	1.23
(1,167)	1:176:A:TYR:HE1	1:177:A:MET:H	1	1.23
(1,5734)	1:54:A:ILE:HG23	1:60:A:LYS:H	10	1.22
(1,2539)	1:54:A:ILE:HD13	1:14:A:ALA:HA	15	1.22
(1,167)	1:176:A:TYR:HE1	1:177:A:MET:H	13	1.22
(1,167)	1:176:A:TYR:HE1	1:177:A:MET:H	16	1.21
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG11	9	1.2
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG12	9	1.2
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG13	9	1.2
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG21	9	1.2
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG22	9	1.2
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG23	9	1.2
(1,3379)	1:7:A:LYS:HG3	1:61:A:GLU:HG2	18	1.2
(1,3379)	1:7:A:LYS:HG3	1:61:A:GLU:HG3	18	1.2
(1,167)	1:176:A:TYR:HE2	1:177:A:MET:H	10	1.19
(1,167)	1:176:A:TYR:HE1	1:177:A:MET:H	20	1.19
(1,5678)	1:137:A:ILE:HD11	1:130:A:MET:H	2	1.17
(1,2920)	1:54:A:ILE:HD11	1:52:A:TYR:HA	13	1.17
(1,2920)	1:54:A:ILE:HD12	1:58:A:ASP:HA	17	1.17
(1,2459)	1:90:A:VAL:HG23	1:66:A:ASN:H	17	1.17
(1,2457)	1:90:A:VAL:HG23	1:66:A:ASN:H	17	1.17
(1,167)	1:176:A:TYR:HE1	1:177:A:MET:H	15	1.16
(1,5787)	1:98:A:ILE:HD13	1:100:A:GLU:H	14	1.15
(1,5734)	1:54:A:ILE:HG22	1:11:A:VAL:H	9	1.15
(1,2534)	1:101:A:ILE:HG23	1:140:A:PRO:HA	5	1.15
(1,167)	1:176:A:TYR:HE1	1:177:A:MET:H	18	1.15
(1,5734)	1:54:A:ILE:HG22	1:11:A:VAL:H	6	1.14
(1,2843)	1:181:A:ILE:HD13	1:182:A:PRO:HG2	20	1.14
(1,2843)	1:181:A:ILE:HD13	1:182:A:PRO:HG3	20	1.14
(1,167)	1:176:A:TYR:HE1	1:145:A:TYR:H	5	1.14
(1,5787)	1:98:A:ILE:HD12	1:100:A:GLU:H	18	1.13
(1,2606)	1:64:A:ILE:HD13	1:82:A:SER:HA	13	1.13
(1,2459)	1:90:A:VAL:HG23	1:94:A:TRP:HZ3	19	1.13
(1,2457)	1:90:A:VAL:HG23	1:94:A:TRP:HZ3	19	1.13
(1,5787)	1:98:A:ILE:HD13	1:100:A:GLU:H	1	1.12
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD21	2	1.12
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD22	2	1.12
(1,2920)	1:54:A:ILE:HD11	1:52:A:TYR:HA	1	1.12
(1,2543)	1:64:A:ILE:HG12	1:62:A:VAL:HA	18	1.12
(1,2539)	1:54:A:ILE:HD11	1:14:A:ALA:HA	4	1.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2491)	1:43:A:VAL:HG13	1:52:A:TYR:HD1	18	1.12
(1,2491)	1:43:A:VAL:HG13	1:52:A:TYR:HD2	18	1.12
(1,167)	1:176:A:TYR:HE2	1:177:A:MET:H	2	1.12
(1,5734)	1:54:A:ILE:HG22	1:53:A:SER:H	4	1.11
(1,2843)	1:181:A:ILE:HD11	1:153:A:LEU:HB2	12	1.11
(1,2843)	1:181:A:ILE:HD11	1:153:A:LEU:HB3	12	1.11
(1,2543)	1:64:A:ILE:HG12	1:65:A:LEU:HA	8	1.11
(1,2543)	1:64:A:ILE:HG12	1:62:A:VAL:HA	14	1.11
(1,2534)	1:101:A:ILE:HG23	1:105:A:SER:HA	17	1.11
(1,5678)	1:137:A:ILE:HD12	1:130:A:MET:H	10	1.1
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG11	14	1.1
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG12	14	1.1
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG13	14	1.1
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG21	14	1.1
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG22	14	1.1
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG23	14	1.1
(1,2543)	1:64:A:ILE:HG12	1:62:A:VAL:HA	7	1.1
(1,3379)	1:7:A:LYS:HG3	1:61:A:GLU:HG2	15	1.09
(1,3379)	1:7:A:LYS:HG3	1:61:A:GLU:HG3	15	1.09
(1,3339)	1:7:A:LYS:HB3	1:5:A:LEU:HG	20	1.09
(1,2920)	1:54:A:ILE:HD13	1:52:A:TYR:HA	8	1.09
(1,2920)	1:54:A:ILE:HD11	1:58:A:ASP:HA	11	1.09
(1,2843)	1:181:A:ILE:HD12	1:182:A:PRO:HG2	1	1.09
(1,2843)	1:181:A:ILE:HD12	1:182:A:PRO:HG3	1	1.09
(1,5678)	1:137:A:ILE:HD13	1:130:A:MET:H	18	1.08
(1,5558)	1:9:A:VAL:HG11	1:8:A:VAL:H	14	1.08
(1,2908)	1:137:A:ILE:HD13	1:130:A:MET:H	18	1.08
(1,2543)	1:64:A:ILE:HG13	1:62:A:VAL:HA	5	1.08
(1,167)	1:176:A:TYR:HE2	1:177:A:MET:H	6	1.08
(1,5787)	1:98:A:ILE:HD13	1:103:A:GLU:H	19	1.07
(1,5678)	1:137:A:ILE:HD13	1:130:A:MET:H	9	1.07
(1,2848)	1:11:A:VAL:HG22	1:43:A:VAL:H	7	1.07
(1,2708)	1:137:A:ILE:HD12	1:139:A:LYS:HB2	13	1.07
(1,2708)	1:137:A:ILE:HD12	1:139:A:LYS:HB3	13	1.07
(1,2692)	1:195:A:ALA:HB3	1:153:A:LEU:HG	4	1.07
(1,167)	1:176:A:TYR:HE1	1:177:A:MET:H	11	1.07
(1,5787)	1:98:A:ILE:HD12	1:100:A:GLU:H	12	1.06
(1,5665)	1:34:A:ILE:HG13	1:33:A:ASP:H	2	1.06
(1,3379)	1:75:A:LYS:HG2	1:19:A:GLU:HG2	8	1.06
(1,3379)	1:75:A:LYS:HG2	1:19:A:GLU:HG3	8	1.06
(1,2692)	1:195:A:ALA:HB3	1:150:A:LEU:HB2	20	1.06
(1,2692)	1:195:A:ALA:HB3	1:150:A:LEU:HB3	20	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2543)	1:64:A:ILE:HG12	1:65:A:LEU:HA	19	1.06
(1,2848)	1:11:A:VAL:HG21	1:43:A:VAL:H	6	1.05
(1,2692)	1:195:A:ALA:HB1	1:153:A:LEU:HG	6	1.05
(1,2692)	1:195:A:ALA:HB1	1:150:A:LEU:HB2	14	1.05
(1,2692)	1:195:A:ALA:HB1	1:150:A:LEU:HB3	14	1.05
(1,2534)	1:101:A:ILE:HG21	1:140:A:PRO:HA	6	1.05
(1,5678)	1:137:A:ILE:HD13	1:130:A:MET:H	1	1.04
(1,5678)	1:137:A:ILE:HD13	1:130:A:MET:H	13	1.04
(1,2920)	1:54:A:ILE:HD11	1:58:A:ASP:HA	12	1.04
(1,2908)	1:137:A:ILE:HD13	1:130:A:MET:H	1	1.04
(1,2892)	1:175:A:ILE:HD11	1:176:A:TYR:HD1	19	1.04
(1,2892)	1:175:A:ILE:HD11	1:176:A:TYR:HD2	19	1.04
(1,2843)	1:181:A:ILE:HD11	1:153:A:LEU:HB2	7	1.04
(1,2843)	1:181:A:ILE:HD11	1:153:A:LEU:HB3	7	1.04
(1,2692)	1:195:A:ALA:HB3	1:150:A:LEU:HB2	13	1.04
(1,2692)	1:195:A:ALA:HB3	1:150:A:LEU:HB3	13	1.04
(1,2692)	1:195:A:ALA:HB2	1:150:A:LEU:HB2	19	1.04
(1,2692)	1:195:A:ALA:HB2	1:150:A:LEU:HB3	19	1.04
(1,2543)	1:64:A:ILE:HG12	1:65:A:LEU:HA	1	1.04
(1,2536)	1:181:A:ILE:HD11	1:179:A:LEU:HA	13	1.04
(1,2482)	1:175:A:ILE:HD13	1:174:A:GLN:H	20	1.04
(1,167)	1:176:A:TYR:HE2	1:177:A:MET:H	19	1.04
(1,5788)	1:98:A:ILE:HD11	1:97:A:ASP:HA	17	1.03
(1,5678)	1:137:A:ILE:HD12	1:130:A:MET:H	8	1.03
(1,2920)	1:54:A:ILE:HD12	1:58:A:ASP:HA	7	1.03
(1,2920)	1:54:A:ILE:HD11	1:52:A:TYR:HA	19	1.03
(1,2908)	1:137:A:ILE:HD12	1:130:A:MET:H	8	1.03
(1,2843)	1:181:A:ILE:HD13	1:153:A:LEU:HB2	6	1.03
(1,2843)	1:181:A:ILE:HD13	1:153:A:LEU:HB3	6	1.03
(1,2843)	1:181:A:ILE:HD13	1:153:A:LEU:HB2	17	1.03
(1,2843)	1:181:A:ILE:HD13	1:153:A:LEU:HB3	17	1.03
(1,2606)	1:64:A:ILE:HD12	1:78:A:LEU:HA	16	1.03
(1,2543)	1:64:A:ILE:HG13	1:62:A:VAL:HA	15	1.03
(1,2383)	1:43:A:VAL:HG21	1:52:A:TYR:H	15	1.03
(1,167)	1:176:A:TYR:HE1	1:177:A:MET:H	8	1.03
(1,5787)	1:98:A:ILE:HD13	1:100:A:GLU:H	10	1.02
(1,5558)	1:9:A:VAL:HG11	1:8:A:VAL:H	9	1.02
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG11	6	1.02
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG12	6	1.02
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG13	6	1.02
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG21	6	1.02
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG22	6	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG23	6	1.02
(1,2692)	1:195:A:ALA:HB1	1:153:A:LEU:HG	16	1.02
(1,2543)	1:64:A:ILE:HG12	1:65:A:LEU:HA	3	1.02
(1,2538)	1:183:A:ILE:HD11	1:182:A:PRO:HA	2	1.02
(1,2529)	1:5:A:LEU:HD12	1:2:A:ASP:HA	3	1.02
(1,167)	1:176:A:TYR:HE2	1:145:A:TYR:H	14	1.02
(1,5654)	1:53:A:SER:HA	1:31:A:ASN:HD21	20	1.01
(1,5654)	1:53:A:SER:HA	1:31:A:ASN:HD22	20	1.01
(1,2828)	1:137:A:ILE:HB	1:101:A:ILE:HA	3	1.01
(1,2539)	1:54:A:ILE:HD13	1:14:A:ALA:HA	13	1.01
(1,2459)	1:90:A:VAL:HG11	1:94:A:TRP:HZ3	9	1.01
(1,2457)	1:90:A:VAL:HG11	1:94:A:TRP:HZ3	9	1.01
(1,2848)	1:11:A:VAL:HG21	1:44:A:ARG:H	5	1.0
(1,2843)	1:181:A:ILE:HD12	1:182:A:PRO:HG2	14	1.0
(1,2843)	1:181:A:ILE:HD12	1:182:A:PRO:HG3	14	1.0
(1,2660)	1:65:A:LEU:HD11	1:63:A:ASP:HB2	8	1.0
(1,2660)	1:65:A:LEU:HD11	1:63:A:ASP:HB3	8	1.0
(1,2482)	1:175:A:ILE:HD13	1:174:A:GLN:H	6	1.0
(1,2375)	1:60:A:LYS:HD3	1:11:A:VAL:H	19	1.0
(1,5787)	1:98:A:ILE:HD13	1:100:A:GLU:H	9	0.99
(1,5665)	1:200:A:LEU:HB3	1:205:A:GLU:H	15	0.99
(1,3436)	1:12:A:VAL:HG12	1:60:A:LYS:HE2	2	0.99
(1,3436)	1:12:A:VAL:HG12	1:60:A:LYS:HE3	2	0.99
(1,3435)	1:12:A:VAL:HG12	1:60:A:LYS:HE2	2	0.99
(1,3435)	1:12:A:VAL:HG12	1:60:A:LYS:HE3	2	0.99
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	20	0.99
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	20	0.99
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	20	0.99
(1,2920)	1:54:A:ILE:HD13	1:52:A:TYR:HA	2	0.99
(1,2543)	1:64:A:ILE:HG12	1:65:A:LEU:HA	12	0.99
(1,2539)	1:54:A:ILE:HD12	1:14:A:ALA:HA	7	0.99
(1,2539)	1:54:A:ILE:HD12	1:11:A:VAL:HA	16	0.99
(1,2534)	1:101:A:ILE:HG21	1:105:A:SER:HA	15	0.99
(1,5558)	1:12:A:VAL:HG12	1:17:A:ARG:H	3	0.98
(1,2848)	1:11:A:VAL:HG23	1:43:A:VAL:H	13	0.98
(1,2539)	1:54:A:ILE:HD13	1:14:A:ALA:HA	1	0.98
(1,2482)	1:175:A:ILE:HD11	1:174:A:GLN:H	17	0.98
(1,5787)	1:98:A:ILE:HD12	1:100:A:GLU:H	3	0.97
(1,5654)	1:51:A:PHE:HA	1:31:A:ASN:HD21	12	0.97
(1,5654)	1:51:A:PHE:HA	1:31:A:ASN:HD22	12	0.97
(1,5654)	1:53:A:SER:HA	1:31:A:ASN:HD21	16	0.97
(1,5654)	1:53:A:SER:HA	1:31:A:ASN:HD22	16	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5654)	1:51:A:PHE:HA	1:31:A:ASN:HD21	19	0.97
(1,5654)	1:51:A:PHE:HA	1:31:A:ASN:HD22	19	0.97
(1,2692)	1:195:A:ALA:HB1	1:153:A:LEU:HG	2	0.97
(1,2535)	1:101:A:ILE:HD12	1:97:A:ASP:HA	6	0.97
(1,2482)	1:175:A:ILE:HD13	1:174:A:GLN:H	1	0.97
(1,2461)	1:64:A:ILE:HD11	1:66:A:ASN:H	6	0.97
(1,2459)	1:90:A:VAL:HG11	1:94:A:TRP:HZ3	7	0.97
(1,2457)	1:90:A:VAL:HG11	1:94:A:TRP:HZ3	7	0.97
(1,167)	1:176:A:TYR:HE1	1:145:A:TYR:H	12	0.97
(1,5678)	1:137:A:ILE:HD11	1:130:A:MET:H	20	0.96
(1,5558)	1:9:A:VAL:HG13	1:8:A:VAL:H	5	0.96
(1,5558)	1:9:A:VAL:HG12	1:8:A:VAL:H	13	0.96
(1,3436)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	13	0.96
(1,3436)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	13	0.96
(1,3435)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	13	0.96
(1,3435)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	13	0.96
(1,2908)	1:137:A:ILE:HD11	1:130:A:MET:H	20	0.96
(1,2577)	1:166:A:ILE:HD11	1:160:A:GLN:HA	1	0.96
(1,2482)	1:175:A:ILE:HD13	1:172:A:TRP:HZ2	10	0.96
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD21	6	0.95
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD22	6	0.95
(1,5558)	1:12:A:VAL:HG12	1:17:A:ARG:H	10	0.95
(1,2920)	1:54:A:ILE:HD11	1:58:A:ASP:HA	4	0.95
(1,2596)	1:90:A:VAL:HG21	1:85:A:LEU:HA	14	0.95
(1,2543)	1:64:A:ILE:HG12	1:65:A:LEU:HA	4	0.95
(1,2442)	1:101:A:ILE:HD13	1:100:A:GLU:H	2	0.95
(1,5788)	1:98:A:ILE:HD12	1:105:A:SER:HA	4	0.94
(1,5665)	1:34:A:ILE:HG13	1:33:A:ASP:H	9	0.94
(1,5558)	1:9:A:VAL:HG13	1:8:A:VAL:H	7	0.94
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG11	16	0.94
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG12	16	0.94
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG13	16	0.94
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG21	16	0.94
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG22	16	0.94
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG23	16	0.94
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD1	3	0.94
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD2	3	0.94
(1,2708)	1:137:A:ILE:HD13	1:140:A:PRO:HB2	20	0.94
(1,2708)	1:137:A:ILE:HD13	1:140:A:PRO:HB3	20	0.94
(1,2606)	1:64:A:ILE:HD13	1:78:A:LEU:HA	5	0.94
(1,2543)	1:64:A:ILE:HG12	1:62:A:VAL:HA	10	0.94
(1,2482)	1:175:A:ILE:HD13	1:174:A:GLN:H	3	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2459)	1:90:A:VAL:HG13	1:94:A:TRP:HZ3	11	0.94
(1,2457)	1:90:A:VAL:HG13	1:94:A:TRP:HZ3	11	0.94
(1,2375)	1:60:A:LYS:HD3	1:61:A:GLU:H	13	0.94
(1,167)	1:176:A:TYR:HE1	1:177:A:MET:H	4	0.94
(1,167)	1:176:A:TYR:HE2	1:177:A:MET:H	7	0.94
(1,5812)	1:64:A:ILE:HD12	1:8:A:VAL:HB	11	0.93
(1,5812)	1:9:A:VAL:HG11	1:8:A:VAL:HB	14	0.93
(1,5665)	1:34:A:ILE:HG13	1:33:A:ASP:H	1	0.93
(1,5558)	1:9:A:VAL:HG12	1:8:A:VAL:H	8	0.93
(1,2884)	1:61:A:GLU:HG2	1:3:A:GLU:HA	16	0.93
(1,2708)	1:137:A:ILE:HD13	1:140:A:PRO:HB2	12	0.93
(1,2708)	1:137:A:ILE:HD13	1:140:A:PRO:HB3	12	0.93
(1,2539)	1:54:A:ILE:HD11	1:14:A:ALA:HA	11	0.93
(1,2534)	1:101:A:ILE:HG21	1:140:A:PRO:HA	7	0.93
(1,2534)	1:101:A:ILE:HG21	1:105:A:SER:HA	14	0.93
(1,2534)	1:101:A:ILE:HG21	1:140:A:PRO:HA	18	0.93
(1,2482)	1:175:A:ILE:HD13	1:174:A:GLN:H	5	0.93
(1,2482)	1:175:A:ILE:HD11	1:174:A:GLN:H	9	0.93
(1,2482)	1:175:A:ILE:HD12	1:174:A:GLN:H	19	0.93
(1,2383)	1:43:A:VAL:HG23	1:52:A:TYR:H	19	0.93
(1,5812)	1:64:A:ILE:HD12	1:8:A:VAL:HB	19	0.92
(1,5547)	1:100:A:GLU:HG2	1:100:A:GLU:H	2	0.92
(1,3448)	1:101:A:ILE:HG13	1:96:A:MET:HG2	14	0.92
(1,3448)	1:101:A:ILE:HG13	1:96:A:MET:HG3	14	0.92
(1,2577)	1:166:A:ILE:HD12	1:160:A:GLN:HA	18	0.92
(1,2535)	1:101:A:ILE:HD13	1:97:A:ASP:HA	14	0.92
(1,2482)	1:175:A:ILE:HD12	1:174:A:GLN:H	15	0.92
(1,2459)	1:90:A:VAL:HG23	1:94:A:TRP:HZ3	15	0.92
(1,2457)	1:90:A:VAL:HG23	1:94:A:TRP:HZ3	15	0.92
(1,5654)	1:53:A:SER:HA	1:31:A:ASN:HD21	17	0.91
(1,5654)	1:53:A:SER:HA	1:31:A:ASN:HD22	17	0.91
(1,5558)	1:9:A:VAL:HG12	1:8:A:VAL:H	1	0.91
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG12	11	0.91
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG13	11	0.91
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG12	13	0.91
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG13	13	0.91
(1,3063)	1:56:A:ARG:H	1:59:A:ILE:HG21	2	0.91
(1,3063)	1:56:A:ARG:H	1:59:A:ILE:HG22	2	0.91
(1,3063)	1:56:A:ARG:H	1:59:A:ILE:HG23	2	0.91
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	7	0.91
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	7	0.91
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	7	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2920)	1:54:A:ILE:HD12	1:52:A:TYR:HA	14	0.91
(1,2920)	1:54:A:ILE:HD13	1:58:A:ASP:HA	15	0.91
(1,2848)	1:11:A:VAL:HG21	1:44:A:ARG:H	11	0.91
(1,2843)	1:181:A:ILE:HD13	1:153:A:LEU:HB2	13	0.91
(1,2843)	1:181:A:ILE:HD13	1:153:A:LEU:HB3	13	0.91
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB2	18	0.91
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB3	18	0.91
(1,2543)	1:64:A:ILE:HG12	1:62:A:VAL:HA	20	0.91
(1,2534)	1:101:A:ILE:HG22	1:105:A:SER:HA	1	0.91
(1,5850)	1:113:A:GLU:HG2	1:114:A:LEU:H	10	0.9
(1,5678)	1:137:A:ILE:HD12	1:130:A:MET:H	15	0.9
(1,5665)	1:34:A:ILE:HG13	1:33:A:ASP:H	4	0.9
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD11	8	0.9
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD12	8	0.9
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD13	8	0.9
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD21	8	0.9
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD22	8	0.9
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD23	8	0.9
(1,3544)	1:198:A:LYS:HE2	1:137:A:ILE:HA	13	0.9
(1,2908)	1:137:A:ILE:HD12	1:130:A:MET:H	15	0.9
(1,2848)	1:11:A:VAL:HG22	1:43:A:VAL:H	2	0.9
(1,2482)	1:175:A:ILE:HD11	1:174:A:GLN:H	8	0.9
(1,2482)	1:175:A:ILE:HD13	1:174:A:GLN:H	16	0.9
(1,5654)	1:51:A:PHE:HA	1:31:A:ASN:HD21	11	0.89
(1,5654)	1:51:A:PHE:HA	1:31:A:ASN:HD22	11	0.89
(1,5654)	1:53:A:SER:HA	1:31:A:ASN:HD21	18	0.89
(1,5654)	1:53:A:SER:HA	1:31:A:ASN:HD22	18	0.89
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD1	14	0.89
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD2	14	0.89
(1,2848)	1:11:A:VAL:HG22	1:44:A:ARG:H	10	0.89
(1,2843)	1:181:A:ILE:HD12	1:153:A:LEU:HB2	18	0.89
(1,2843)	1:181:A:ILE:HD12	1:153:A:LEU:HB3	18	0.89
(1,2841)	1:166:A:ILE:HD11	1:159:A:HIS:H	5	0.89
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG11	5	0.89
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG12	5	0.89
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG13	5	0.89
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG21	5	0.89
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG22	5	0.89
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG23	5	0.89
(1,2571)	1:130:A:MET:HE3	1:136:A:PRO:HA	7	0.89
(1,2539)	1:54:A:ILE:HD11	1:14:A:ALA:HA	3	0.89
(1,2482)	1:175:A:ILE:HD13	1:174:A:GLN:H	14	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2459)	1:90:A:VAL:HG22	1:94:A:TRP:HZ3	20	0.89
(1,2457)	1:90:A:VAL:HG22	1:94:A:TRP:HZ3	20	0.89
(1,2442)	1:101:A:ILE:HD11	1:100:A:GLU:H	8	0.89
(1,2375)	1:60:A:LYS:HD3	1:61:A:GLU:H	16	0.89
(1,5678)	1:137:A:ILE:HD13	1:130:A:MET:H	3	0.88
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD21	14	0.88
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD22	14	0.88
(1,5556)	1:197:A:ARG:HB3	1:201:A:TYR:H	3	0.88
(1,3379)	1:7:A:LYS:HG3	1:61:A:GLU:HG2	11	0.88
(1,3379)	1:7:A:LYS:HG3	1:61:A:GLU:HG3	11	0.88
(1,2908)	1:137:A:ILE:HD13	1:130:A:MET:H	3	0.88
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG21	10	0.88
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG22	10	0.88
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG23	10	0.88
(1,2657)	1:12:A:VAL:HG23	1:58:A:ASP:HB2	13	0.88
(1,2657)	1:12:A:VAL:HG23	1:58:A:ASP:HB3	13	0.88
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB2	14	0.88
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB3	14	0.88
(1,2482)	1:175:A:ILE:HD11	1:174:A:GLN:H	4	0.88
(1,2482)	1:175:A:ILE:HD12	1:174:A:GLN:H	7	0.88
(1,2482)	1:175:A:ILE:HD12	1:174:A:GLN:H	18	0.88
(1,5678)	1:137:A:ILE:HD13	1:130:A:MET:H	11	0.87
(1,5625)	1:64:A:ILE:HG12	1:82:A:SER:H	16	0.87
(1,2908)	1:137:A:ILE:HD13	1:130:A:MET:H	11	0.87
(1,2892)	1:175:A:ILE:HD11	1:176:A:TYR:HD1	11	0.87
(1,2892)	1:175:A:ILE:HD11	1:176:A:TYR:HD2	11	0.87
(1,2543)	1:64:A:ILE:HG13	1:62:A:VAL:HA	16	0.87
(1,2539)	1:54:A:ILE:HD12	1:11:A:VAL:HA	6	0.87
(1,2442)	1:101:A:ILE:HD12	1:100:A:GLU:H	6	0.87
(1,2375)	1:60:A:LYS:HD3	1:11:A:VAL:H	12	0.87
(1,5734)	1:54:A:ILE:HG23	1:53:A:SER:H	5	0.86
(1,5654)	1:51:A:PHE:HA	1:31:A:ASN:HD21	3	0.86
(1,5654)	1:51:A:PHE:HA	1:31:A:ASN:HD22	3	0.86
(1,5557)	1:128:A:LYS:HG2	1:95:A:LYS:H	17	0.86
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD1	5	0.86
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD2	5	0.86
(1,2892)	1:175:A:ILE:HD13	1:176:A:TYR:HD1	8	0.86
(1,2892)	1:175:A:ILE:HD13	1:176:A:TYR:HD2	8	0.86
(1,2892)	1:175:A:ILE:HD13	1:176:A:TYR:HD1	9	0.86
(1,2892)	1:175:A:ILE:HD13	1:176:A:TYR:HD2	9	0.86
(1,2708)	1:137:A:ILE:HD12	1:140:A:PRO:HB2	4	0.86
(1,2708)	1:137:A:ILE:HD12	1:140:A:PRO:HB3	4	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB2	11	0.86
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB3	11	0.86
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB2	20	0.86
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB3	20	0.86
(1,2649)	1:64:A:ILE:HD11	1:63:A:ASP:HB2	8	0.86
(1,2649)	1:64:A:ILE:HD11	1:63:A:ASP:HB3	8	0.86
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB2	12	0.86
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB3	12	0.86
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB2	19	0.86
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB3	19	0.86
(1,2543)	1:64:A:ILE:HG13	1:62:A:VAL:HA	2	0.86
(1,2442)	1:101:A:ILE:HD12	1:100:A:GLU:H	14	0.86
(1,5812)	1:9:A:VAL:HG11	1:8:A:VAL:HB	10	0.85
(1,3399)	1:64:A:ILE:HG12	1:62:A:VAL:HB	12	0.85
(1,2920)	1:54:A:ILE:HD11	1:58:A:ASP:HA	5	0.85
(1,2903)	1:11:A:VAL:HG11	1:54:A:ILE:HB	9	0.85
(1,2892)	1:175:A:ILE:HD13	1:176:A:TYR:HD1	12	0.85
(1,2892)	1:175:A:ILE:HD13	1:176:A:TYR:HD2	12	0.85
(1,2892)	1:175:A:ILE:HD13	1:176:A:TYR:HD1	17	0.85
(1,2892)	1:175:A:ILE:HD13	1:176:A:TYR:HD2	17	0.85
(1,2766)	1:55:A:ALA:HB1	1:54:A:ILE:HG21	4	0.85
(1,2766)	1:55:A:ALA:HB1	1:54:A:ILE:HG22	4	0.85
(1,2766)	1:55:A:ALA:HB1	1:54:A:ILE:HG23	4	0.85
(1,2660)	1:65:A:LEU:HD11	1:63:A:ASP:HB2	10	0.85
(1,2660)	1:65:A:LEU:HD11	1:63:A:ASP:HB3	10	0.85
(1,2538)	1:183:A:ILE:HD13	1:182:A:PRO:HA	14	0.85
(1,2536)	1:181:A:ILE:HD12	1:179:A:LEU:HA	4	0.85
(1,2461)	1:64:A:ILE:HD13	1:66:A:ASN:H	17	0.85
(1,2373)	1:26:A:ILE:HD13	1:43:A:VAL:H	20	0.85
(1,167)	1:176:A:TYR:HE2	1:145:A:TYR:H	17	0.85
(1,5788)	1:98:A:ILE:HD12	1:121:A:ASN:HA	1	0.84
(1,5678)	1:137:A:ILE:HD11	1:130:A:MET:H	5	0.84
(1,5654)	1:53:A:SER:HA	1:31:A:ASN:HD21	4	0.84
(1,5654)	1:53:A:SER:HA	1:31:A:ASN:HD22	4	0.84
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD21	5	0.84
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD22	5	0.84
(1,5654)	1:53:A:SER:HA	1:31:A:ASN:HD21	7	0.84
(1,5654)	1:53:A:SER:HA	1:31:A:ASN:HD22	7	0.84
(1,5556)	1:96:A:MET:HB2	1:95:A:LYS:H	12	0.84
(1,2908)	1:137:A:ILE:HD11	1:130:A:MET:H	5	0.84
(1,2905)	1:126:A:LEU:HD13	1:199:A:TYR:HD1	6	0.84
(1,2905)	1:126:A:LEU:HD13	1:199:A:TYR:HD2	6	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2905)	1:126:A:LEU:HD11	1:199:A:TYR:HD1	9	0.84
(1,2905)	1:126:A:LEU:HD11	1:199:A:TYR:HD2	9	0.84
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD1	16	0.84
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD2	16	0.84
(1,2848)	1:11:A:VAL:HG21	1:43:A:VAL:H	1	0.84
(1,2843)	1:181:A:ILE:HD12	1:153:A:LEU:HB2	4	0.84
(1,2843)	1:181:A:ILE:HD12	1:153:A:LEU:HB3	4	0.84
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB2	1	0.84
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB3	1	0.84
(1,2692)	1:195:A:ALA:HB1	1:153:A:LEU:HG	8	0.84
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB2	1	0.84
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB3	1	0.84
(1,2578)	1:64:A:ILE:HD13	1:62:A:VAL:HA	12	0.84
(1,2535)	1:101:A:ILE:HD13	1:97:A:ASP:HA	7	0.84
(1,2534)	1:101:A:ILE:HG22	1:140:A:PRO:HA	16	0.84
(1,2482)	1:175:A:ILE:HD13	1:174:A:GLN:H	13	0.84
(1,2375)	1:60:A:LYS:HD3	1:11:A:VAL:H	3	0.84
(1,5665)	1:50:A:LYS:HB2	1:133:A:ARG:H	5	0.83
(1,5665)	1:50:A:LYS:HB2	1:133:A:ARG:H	6	0.83
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB2	11	0.83
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB3	11	0.83
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB2	11	0.83
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB3	11	0.83
(1,3439)	1:42:A:LEU:HG	1:31:A:ASN:HB2	3	0.83
(1,3439)	1:42:A:LEU:HG	1:31:A:ASN:HB3	3	0.83
(1,3436)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	19	0.83
(1,3436)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	19	0.83
(1,3435)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	19	0.83
(1,3435)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	19	0.83
(1,3339)	1:123:A:LEU:HB3	1:150:A:LEU:HG	3	0.83
(1,3144)	1:20:A:TRP:HD1	1:16:A:GLU:HG2	20	0.83
(1,3144)	1:20:A:TRP:HD1	1:16:A:GLU:HG3	20	0.83
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD1	13	0.83
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD2	13	0.83
(1,2696)	1:181:A:ILE:HB	1:183:A:ILE:HB	19	0.83
(1,2577)	1:166:A:ILE:HD11	1:160:A:GLN:HA	7	0.83
(1,2549)	1:36:A:VAL:HG21	1:37:A:LYS:HA	8	0.83
(1,2543)	1:64:A:ILE:HG13	1:62:A:VAL:HA	6	0.83
(1,2543)	1:64:A:ILE:HG12	1:65:A:LEU:HA	11	0.83
(1,2530)	1:36:A:VAL:HG21	1:37:A:LYS:HA	8	0.83
(1,2466)	1:60:A:LYS:HD3	1:17:A:ARG:HE	14	0.83
(1,161)	1:52:A:TYR:HE1	1:11:A:VAL:HG11	18	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,161)	1:52:A:TYR:HE1	1:11:A:VAL:HG12	18	0.83
(1,161)	1:52:A:TYR:HE1	1:11:A:VAL:HG13	18	0.83
(1,161)	1:52:A:TYR:HE1	1:11:A:VAL:HG21	18	0.83
(1,161)	1:52:A:TYR:HE1	1:11:A:VAL:HG22	18	0.83
(1,161)	1:52:A:TYR:HE1	1:11:A:VAL:HG23	18	0.83
(1,2908)	1:137:A:ILE:HD12	1:199:A:TYR:H	10	0.82
(1,2905)	1:126:A:LEU:HD12	1:199:A:TYR:HD1	18	0.82
(1,2905)	1:126:A:LEU:HD12	1:199:A:TYR:HD2	18	0.82
(1,2835)	1:126:A:LEU:HD13	1:125:A:GLN:H	17	0.82
(1,2543)	1:64:A:ILE:HG12	1:65:A:LEU:HA	9	0.82
(1,2459)	1:90:A:VAL:HG21	1:94:A:TRP:HZ3	18	0.82
(1,2457)	1:90:A:VAL:HG21	1:94:A:TRP:HZ3	18	0.82
(1,2422)	1:126:A:LEU:HD13	1:125:A:GLN:H	17	0.82
(1,2373)	1:26:A:ILE:HD12	1:43:A:VAL:H	7	0.82
(1,5787)	1:98:A:ILE:HD11	1:100:A:GLU:H	16	0.81
(1,5787)	1:98:A:ILE:HD11	1:100:A:GLU:H	17	0.81
(1,5665)	1:34:A:ILE:HG13	1:33:A:ASP:H	12	0.81
(1,3016)	1:157:A:VAL:HG12	1:156:A:LEU:HA	19	0.81
(1,2908)	1:137:A:ILE:HD13	1:199:A:TYR:H	9	0.81
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD1	6	0.81
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD2	6	0.81
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD1	20	0.81
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD2	20	0.81
(1,2848)	1:11:A:VAL:HG23	1:44:A:ARG:H	8	0.81
(1,2708)	1:137:A:ILE:HD12	1:140:A:PRO:HB2	11	0.81
(1,2708)	1:137:A:ILE:HD12	1:140:A:PRO:HB3	11	0.81
(1,2596)	1:90:A:VAL:HG23	1:85:A:LEU:HA	9	0.81
(1,2536)	1:181:A:ILE:HD11	1:179:A:LEU:HA	17	0.81
(1,2489)	1:87:A:THR:HG22	1:89:A:VAL:H	19	0.81
(1,2375)	1:60:A:LYS:HD3	1:61:A:GLU:H	17	0.81
(1,5812)	1:9:A:VAL:HG12	1:8:A:VAL:HB	12	0.8
(1,5812)	1:9:A:VAL:HG21	1:8:A:VAL:HB	18	0.8
(1,5734)	1:54:A:ILE:HG22	1:11:A:VAL:H	18	0.8
(1,5665)	1:34:A:ILE:HG13	1:33:A:ASP:H	7	0.8
(1,5558)	1:12:A:VAL:HG12	1:17:A:ARG:H	2	0.8
(1,5558)	1:9:A:VAL:HG13	1:8:A:VAL:H	16	0.8
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD11	1	0.8
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD12	1	0.8
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD13	1	0.8
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD21	1	0.8
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD22	1	0.8
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD23	1	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3436)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	12	0.8
(1,3436)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	12	0.8
(1,3435)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	12	0.8
(1,3435)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	12	0.8
(1,3399)	1:64:A:ILE:HG12	1:62:A:VAL:HB	8	0.8
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	2	0.8
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	2	0.8
(1,2892)	1:175:A:ILE:HD11	1:176:A:TYR:HD1	18	0.8
(1,2892)	1:175:A:ILE:HD11	1:176:A:TYR:HD2	18	0.8
(1,2843)	1:181:A:ILE:HD12	1:153:A:LEU:HB2	10	0.8
(1,2843)	1:181:A:ILE:HD12	1:153:A:LEU:HB3	10	0.8
(1,2657)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	12	0.8
(1,2657)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	12	0.8
(1,2538)	1:183:A:ILE:HD11	1:182:A:PRO:HA	4	0.8
(1,2536)	1:181:A:ILE:HD13	1:179:A:LEU:HA	6	0.8
(1,2535)	1:101:A:ILE:HD12	1:97:A:ASP:HA	13	0.8
(1,2461)	1:64:A:ILE:HD11	1:66:A:ASN:H	15	0.8
(1,2373)	1:26:A:ILE:HD13	1:44:A:ARG:H	8	0.8
(1,5812)	1:9:A:VAL:HG22	1:8:A:VAL:HB	20	0.79
(1,5697)	1:124:A:GLN:HB2	1:121:A:ASN:HD21	8	0.79
(1,5697)	1:124:A:GLN:HB2	1:121:A:ASN:HD22	8	0.79
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	12	0.79
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	12	0.79
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	12	0.79
(1,2920)	1:54:A:ILE:HD12	1:58:A:ASP:HA	10	0.79
(1,2905)	1:126:A:LEU:HD12	1:199:A:TYR:HD1	1	0.79
(1,2905)	1:126:A:LEU:HD12	1:199:A:TYR:HD2	1	0.79
(1,2892)	1:175:A:ILE:HD13	1:176:A:TYR:HD1	10	0.79
(1,2892)	1:175:A:ILE:HD13	1:176:A:TYR:HD2	10	0.79
(1,2892)	1:175:A:ILE:HD11	1:176:A:TYR:HD1	15	0.79
(1,2892)	1:175:A:ILE:HD11	1:176:A:TYR:HD2	15	0.79
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG21	5	0.79
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG22	5	0.79
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG23	5	0.79
(1,2685)	1:67:A:LEU:HD11	1:71:A:GLU:HB2	9	0.79
(1,2685)	1:67:A:LEU:HD11	1:71:A:GLU:HB3	9	0.79
(1,2535)	1:101:A:ILE:HD11	1:97:A:ASP:HA	1	0.79
(1,5788)	1:98:A:ILE:HD11	1:105:A:SER:HA	7	0.78
(1,5665)	1:34:A:ILE:HG13	1:33:A:ASP:H	8	0.78
(1,5654)	1:51:A:PHE:HA	1:31:A:ASN:HD21	1	0.78
(1,5654)	1:51:A:PHE:HA	1:31:A:ASN:HD22	1	0.78
(1,3516)	1:22:A:PRO:HG2	1:46:A:PHE:HB2	14	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3516)	1:22:A:PRO:HG2	1:46:A:PHE:HB3	14	0.78
(1,3516)	1:22:A:PRO:HG3	1:46:A:PHE:HB2	14	0.78
(1,3516)	1:22:A:PRO:HG3	1:46:A:PHE:HB3	14	0.78
(1,3516)	1:80:A:LYS:HD2	1:46:A:PHE:HB2	16	0.78
(1,3516)	1:80:A:LYS:HD2	1:46:A:PHE:HB3	16	0.78
(1,3516)	1:80:A:LYS:HD3	1:46:A:PHE:HB2	16	0.78
(1,3516)	1:80:A:LYS:HD3	1:46:A:PHE:HB3	16	0.78
(1,3399)	1:198:A:LYS:HD3	1:139:A:LYS:HB2	11	0.78
(1,3399)	1:198:A:LYS:HD3	1:139:A:LYS:HB3	11	0.78
(1,3379)	1:75:A:LYS:HG3	1:19:A:GLU:HG2	9	0.78
(1,3379)	1:75:A:LYS:HG3	1:19:A:GLU:HG3	9	0.78
(1,3312)	1:58:A:ASP:HB2	1:57:A:LYS:HB2	12	0.78
(1,3312)	1:58:A:ASP:HB2	1:57:A:LYS:HB3	12	0.78
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	1	0.78
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	1	0.78
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	1	0.78
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD2	16	0.78
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD3	16	0.78
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG11	2	0.78
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG12	2	0.78
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG13	2	0.78
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG21	2	0.78
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG22	2	0.78
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG23	2	0.78
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB2	6	0.78
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB3	6	0.78
(1,2692)	1:195:A:ALA:HB1	1:150:A:LEU:HB2	9	0.78
(1,2692)	1:195:A:ALA:HB1	1:150:A:LEU:HB3	9	0.78
(1,2636)	1:65:A:LEU:HD21	1:63:A:ASP:HB2	11	0.78
(1,2636)	1:65:A:LEU:HD21	1:63:A:ASP:HB3	11	0.78
(1,2549)	1:36:A:VAL:HG13	1:37:A:LYS:HA	16	0.78
(1,2530)	1:36:A:VAL:HG13	1:37:A:LYS:HA	16	0.78
(1,2459)	1:90:A:VAL:HG22	1:94:A:TRP:HZ3	6	0.78
(1,2457)	1:90:A:VAL:HG22	1:94:A:TRP:HZ3	6	0.78
(1,2385)	1:34:A:ILE:HB	1:53:A:SER:H	9	0.78
(1,5812)	1:9:A:VAL:HG13	1:8:A:VAL:HB	3	0.77
(1,5665)	1:200:A:LEU:HB3	1:205:A:GLU:H	20	0.77
(1,5557)	1:197:A:ARG:HG2	1:201:A:TYR:H	15	0.77
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG12	4	0.77
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG13	4	0.77
(1,3439)	1:142:A:VAL:HG13	1:147:A:ASP:HB2	10	0.77
(1,3439)	1:142:A:VAL:HG13	1:147:A:ASP:HB3	10	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2549)	1:36:A:VAL:HG23	1:37:A:LYS:HA	20	0.77
(1,2543)	1:64:A:ILE:HG13	1:62:A:VAL:HA	13	0.77
(1,2535)	1:101:A:ILE:HD11	1:97:A:ASP:HA	4	0.77
(1,2530)	1:36:A:VAL:HG23	1:37:A:LYS:HA	20	0.77
(1,2482)	1:175:A:ILE:HD12	1:174:A:GLN:H	11	0.77
(1,2482)	1:175:A:ILE:HD11	1:174:A:GLN:H	12	0.77
(1,2448)	1:130:A:MET:HE1	1:200:A:LEU:H	18	0.77
(1,2400)	1:34:A:ILE:HD11	1:52:A:TYR:H	9	0.77
(1,2373)	1:26:A:ILE:HD11	1:44:A:ARG:H	18	0.77
(1,5850)	1:113:A:GLU:HG3	1:113:A:GLU:H	3	0.76
(1,5812)	1:9:A:VAL:HG21	1:8:A:VAL:HB	7	0.76
(1,5812)	1:64:A:ILE:HD13	1:8:A:VAL:HB	8	0.76
(1,5803)	1:18:A:THR:HG23	1:16:A:GLU:HB2	15	0.76
(1,5803)	1:18:A:THR:HG23	1:16:A:GLU:HB3	15	0.76
(1,5801)	1:112:A:LYS:HE2	1:116:A:PRO:HG2	11	0.76
(1,5801)	1:112:A:LYS:HE2	1:116:A:PRO:HG3	11	0.76
(1,5678)	1:137:A:ILE:HD13	1:130:A:MET:H	4	0.76
(1,5678)	1:137:A:ILE:HD13	1:130:A:MET:H	6	0.76
(1,5678)	1:137:A:ILE:HD12	1:130:A:MET:H	7	0.76
(1,3516)	1:22:A:PRO:HG2	1:46:A:PHE:HB2	13	0.76
(1,3516)	1:22:A:PRO:HG2	1:46:A:PHE:HB3	13	0.76
(1,3516)	1:22:A:PRO:HG3	1:46:A:PHE:HB2	13	0.76
(1,3516)	1:22:A:PRO:HG3	1:46:A:PHE:HB3	13	0.76
(1,3448)	1:43:A:VAL:HG13	1:41:A:CYS:HB2	12	0.76
(1,3448)	1:43:A:VAL:HG13	1:41:A:CYS:HB3	12	0.76
(1,3399)	1:64:A:ILE:HG12	1:62:A:VAL:HB	1	0.76
(1,2908)	1:137:A:ILE:HD13	1:130:A:MET:H	4	0.76
(1,2908)	1:137:A:ILE:HD13	1:130:A:MET:H	6	0.76
(1,2908)	1:137:A:ILE:HD12	1:130:A:MET:H	7	0.76
(1,2903)	1:11:A:VAL:HG22	1:54:A:ILE:HB	18	0.76
(1,2892)	1:175:A:ILE:HD11	1:176:A:TYR:HD1	7	0.76
(1,2892)	1:175:A:ILE:HD11	1:176:A:TYR:HD2	7	0.76
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD2	14	0.76
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD3	14	0.76
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB2	10	0.76
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB3	10	0.76
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB2	13	0.76
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB3	13	0.76
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB2	18	0.76
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB3	18	0.76
(1,2685)	1:67:A:LEU:HD12	1:71:A:GLU:HB2	1	0.76
(1,2685)	1:67:A:LEU:HD12	1:71:A:GLU:HB3	1	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2534)	1:101:A:ILE:HG21	1:140:A:PRO:HA	3	0.76
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG21	13	0.75
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG22	13	0.75
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG23	13	0.75
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG21	17	0.75
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG22	17	0.75
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG23	17	0.75
(1,5558)	1:9:A:VAL:HG13	1:8:A:VAL:H	17	0.75
(1,5557)	1:128:A:LYS:HG2	1:95:A:LYS:H	11	0.75
(1,5054)	1:78:A:LEU:H	1:75:A:LYS:HG2	6	0.75
(1,5054)	1:78:A:LEU:H	1:75:A:LYS:HG3	6	0.75
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	16	0.75
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	16	0.75
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	16	0.75
(1,2892)	1:175:A:ILE:HD13	1:176:A:TYR:HD1	4	0.75
(1,2892)	1:175:A:ILE:HD13	1:176:A:TYR:HD2	4	0.75
(1,2843)	1:181:A:ILE:HD12	1:153:A:LEU:HB2	11	0.75
(1,2843)	1:181:A:ILE:HD12	1:153:A:LEU:HB3	11	0.75
(1,2708)	1:137:A:ILE:HD11	1:139:A:LYS:HB2	15	0.75
(1,2708)	1:137:A:ILE:HD11	1:139:A:LYS:HB3	15	0.75
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB2	12	0.75
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB3	12	0.75
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB2	15	0.75
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB3	15	0.75
(1,2578)	1:64:A:ILE:HD13	1:62:A:VAL:HA	18	0.75
(1,2459)	1:90:A:VAL:HG21	1:94:A:TRP:HZ3	12	0.75
(1,2457)	1:90:A:VAL:HG21	1:94:A:TRP:HZ3	12	0.75
(1,2442)	1:101:A:ILE:HD11	1:100:A:GLU:H	19	0.75
(1,2373)	1:26:A:ILE:HD11	1:43:A:VAL:H	2	0.75
(1,2373)	1:26:A:ILE:HD11	1:44:A:ARG:H	4	0.75
(1,167)	1:176:A:TYR:HE1	1:145:A:TYR:H	3	0.75
(1,5803)	1:18:A:THR:HG23	1:16:A:GLU:HB2	14	0.74
(1,5803)	1:18:A:THR:HG23	1:16:A:GLU:HB3	14	0.74
(1,5803)	1:18:A:THR:HG21	1:16:A:GLU:HB2	18	0.74
(1,5803)	1:18:A:THR:HG21	1:16:A:GLU:HB3	18	0.74
(1,5788)	1:98:A:ILE:HD12	1:121:A:ASN:HA	2	0.74
(1,5678)	1:137:A:ILE:HD11	1:130:A:MET:H	17	0.74
(1,5558)	1:12:A:VAL:HG11	1:17:A:ARG:H	19	0.74
(1,5558)	1:12:A:VAL:HG11	1:17:A:ARG:H	20	0.74
(1,5237)	1:145:A:TYR:H	1:146:A:LYS:HG2	16	0.74
(1,5237)	1:145:A:TYR:H	1:146:A:LYS:HG3	16	0.74
(1,5128)	1:197:A:ARG:H	1:200:A:LEU:HG	4	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2908)	1:137:A:ILE:HD11	1:130:A:MET:H	17	0.74
(1,2848)	1:11:A:VAL:HG23	1:43:A:VAL:H	4	0.74
(1,2657)	1:12:A:VAL:HG12	1:58:A:ASP:HB2	19	0.74
(1,2657)	1:12:A:VAL:HG12	1:58:A:ASP:HB3	19	0.74
(1,2442)	1:101:A:ILE:HD13	1:100:A:GLU:H	7	0.74
(1,160)	1:145:A:TYR:HE1	1:184:A:LEU:HB2	12	0.74
(1,160)	1:145:A:TYR:HE1	1:184:A:LEU:HB3	12	0.74
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG12	1	0.73
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG13	1	0.73
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	18	0.73
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	18	0.73
(1,2549)	1:36:A:VAL:HG11	1:37:A:LYS:HA	19	0.73
(1,2543)	1:64:A:ILE:HG13	1:62:A:VAL:HA	17	0.73
(1,2535)	1:101:A:ILE:HD11	1:97:A:ASP:HA	2	0.73
(1,2530)	1:36:A:VAL:HG11	1:37:A:LYS:HA	19	0.73
(1,2442)	1:101:A:ILE:HD13	1:100:A:GLU:H	3	0.73
(1,2403)	1:3:A:GLU:HB2	1:4:A:LEU:H	13	0.73
(1,5665)	1:50:A:LYS:HB3	1:133:A:ARG:H	13	0.72
(1,5665)	1:34:A:ILE:HG13	1:33:A:ASP:H	16	0.72
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB2	13	0.72
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB3	13	0.72
(1,3330)	1:90:A:VAL:HB	1:91:A:PRO:HG2	12	0.72
(1,3330)	1:90:A:VAL:HB	1:91:A:PRO:HG3	12	0.72
(1,3016)	1:157:A:VAL:HG12	1:156:A:LEU:HA	5	0.72
(1,2970)	1:68:A:PRO:HG2	1:70:A:SER:HB2	3	0.72
(1,2970)	1:68:A:PRO:HG2	1:70:A:SER:HB3	3	0.72
(1,2649)	1:64:A:ILE:HD11	1:63:A:ASP:HB2	10	0.72
(1,2649)	1:64:A:ILE:HD11	1:63:A:ASP:HB3	10	0.72
(1,2535)	1:101:A:ILE:HD11	1:97:A:ASP:HA	20	0.72
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	18	0.71
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	18	0.71
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	18	0.71
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	18	0.71
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	18	0.71
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	18	0.71
(1,5416)	1:10:A:SER:H	1:61:A:GLU:HB2	17	0.71
(1,5416)	1:10:A:SER:H	1:61:A:GLU:HB3	17	0.71
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB2	6	0.71
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB3	6	0.71
(1,3399)	1:64:A:ILE:HG12	1:62:A:VAL:HB	18	0.71
(1,3289)	1:144:A:GLY:HA2	1:184:A:LEU:HG	17	0.71
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	4	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	4	0.71
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	4	0.71
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	15	0.71
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	15	0.71
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	15	0.71
(1,3016)	1:157:A:VAL:HG22	1:156:A:LEU:HA	20	0.71
(1,2903)	1:11:A:VAL:HG12	1:54:A:ILE:HB	16	0.71
(1,2573)	1:187:A:ALA:HB1	1:186:A:SER:HB2	4	0.71
(1,2573)	1:187:A:ALA:HB1	1:186:A:SER:HB3	4	0.71
(1,2535)	1:101:A:ILE:HD11	1:97:A:ASP:HA	12	0.71
(1,2534)	1:101:A:ILE:HG23	1:140:A:PRO:HA	13	0.71
(1,2442)	1:101:A:ILE:HD13	1:100:A:GLU:H	4	0.71
(1,2442)	1:101:A:ILE:HD13	1:100:A:GLU:H	11	0.71
(1,2385)	1:34:A:ILE:HB	1:52:A:TYR:H	12	0.71
(1,2379)	1:24:A:LEU:HD21	1:44:A:ARG:H	17	0.71
(1,160)	1:145:A:TYR:HE1	1:184:A:LEU:HB2	5	0.71
(1,160)	1:145:A:TYR:HE1	1:184:A:LEU:HB3	5	0.71
(1,5801)	1:146:A:LYS:HE2	1:182:A:PRO:HG2	13	0.7
(1,5801)	1:146:A:LYS:HE2	1:182:A:PRO:HG3	13	0.7
(1,5787)	1:98:A:ILE:HD11	1:100:A:GLU:H	13	0.7
(1,5678)	1:137:A:ILE:HD12	1:130:A:MET:H	14	0.7
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD21	10	0.7
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD22	10	0.7
(1,5558)	1:9:A:VAL:HG12	1:8:A:VAL:H	12	0.7
(1,5557)	1:128:A:LYS:HG3	1:95:A:LYS:H	19	0.7
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG12	9	0.7
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG13	9	0.7
(1,5020)	1:85:A:LEU:H	1:46:A:PHE:HD1	13	0.7
(1,5020)	1:85:A:LEU:H	1:46:A:PHE:HD2	13	0.7
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD1	5	0.7
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD2	5	0.7
(1,3016)	1:157:A:VAL:HG23	1:156:A:LEU:HA	7	0.7
(1,3016)	1:157:A:VAL:HG21	1:156:A:LEU:HA	13	0.7
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB2	15	0.7
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB3	15	0.7
(1,2908)	1:137:A:ILE:HD12	1:130:A:MET:H	14	0.7
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	13	0.7
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB2	3	0.7
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB3	3	0.7
(1,2696)	1:181:A:ILE:HB	1:183:A:ILE:HB	9	0.7
(1,2606)	1:64:A:ILE:HD12	1:78:A:LEU:HA	17	0.7
(1,2373)	1:26:A:ILE:HD13	1:43:A:VAL:H	15	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD21	9	0.69
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD22	9	0.69
(1,5557)	1:128:A:LYS:HG2	1:95:A:LYS:H	2	0.69
(1,5375)	1:202:A:GLY:H	1:204:A:GLU:HB2	19	0.69
(1,5375)	1:202:A:GLY:H	1:204:A:GLU:HB3	19	0.69
(1,5128)	1:197:A:ARG:H	1:200:A:LEU:HG	5	0.69
(1,3312)	1:158:A:TYR:HB2	1:157:A:VAL:HB	19	0.69
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	16	0.69
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	16	0.69
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD11	12	0.69
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD12	12	0.69
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD13	12	0.69
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG11	12	0.69
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG12	12	0.69
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG13	12	0.69
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG21	12	0.69
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG22	12	0.69
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG23	12	0.69
(1,2571)	1:130:A:MET:HE2	1:136:A:PRO:HA	1	0.69
(1,2536)	1:181:A:ILE:HD12	1:179:A:LEU:HA	16	0.69
(1,2448)	1:130:A:MET:HE2	1:200:A:LEU:H	8	0.69
(1,2442)	1:101:A:ILE:HD13	1:100:A:GLU:H	5	0.69
(1,2442)	1:101:A:ILE:HD13	1:100:A:GLU:H	12	0.69
(1,161)	1:52:A:TYR:HE2	1:11:A:VAL:HG11	6	0.69
(1,161)	1:52:A:TYR:HE2	1:11:A:VAL:HG12	6	0.69
(1,161)	1:52:A:TYR:HE2	1:11:A:VAL:HG13	6	0.69
(1,161)	1:52:A:TYR:HE2	1:11:A:VAL:HG21	6	0.69
(1,161)	1:52:A:TYR:HE2	1:11:A:VAL:HG22	6	0.69
(1,161)	1:52:A:TYR:HE2	1:11:A:VAL:HG23	6	0.69
(1,160)	1:145:A:TYR:HE1	1:146:A:LYS:HD2	7	0.69
(1,160)	1:145:A:TYR:HE1	1:146:A:LYS:HD3	7	0.69
(1,5812)	1:64:A:ILE:HD12	1:8:A:VAL:HB	1	0.68
(1,5788)	1:98:A:ILE:HD13	1:105:A:SER:HA	5	0.68
(1,5787)	1:98:A:ILE:HD12	1:103:A:GLU:H	5	0.68
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD21	13	0.68
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD22	13	0.68
(1,5559)	1:5:A:LEU:HD23	1:2:A:ASP:H	7	0.68
(1,5128)	1:197:A:ARG:H	1:198:A:LYS:HD2	7	0.68
(1,5128)	1:197:A:ARG:H	1:198:A:LYS:HD3	7	0.68
(1,5020)	1:85:A:LEU:H	1:88:A:ARG:HE	18	0.68
(1,3516)	1:22:A:PRO:HG2	1:46:A:PHE:HB2	2	0.68
(1,3516)	1:22:A:PRO:HG2	1:46:A:PHE:HB3	2	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3516)	1:22:A:PRO:HG3	1:46:A:PHE:HB2	2	0.68
(1,3516)	1:22:A:PRO:HG3	1:46:A:PHE:HB3	2	0.68
(1,3048)	1:34:A:ILE:HB	1:51:A:PHE:HA	12	0.68
(1,3016)	1:157:A:VAL:HG21	1:156:A:LEU:HA	11	0.68
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	12	0.68
(1,2835)	1:126:A:LEU:HD21	1:125:A:GLN:H	13	0.68
(1,2699)	1:8:A:VAL:HG21	1:85:A:LEU:HG	10	0.68
(1,2696)	1:181:A:ILE:HB	1:183:A:ILE:HB	17	0.68
(1,2535)	1:101:A:ILE:HD11	1:97:A:ASP:HA	19	0.68
(1,2461)	1:64:A:ILE:HD11	1:66:A:ASN:H	13	0.68
(1,2422)	1:126:A:LEU:HD21	1:125:A:GLN:H	13	0.68
(1,167)	1:176:A:TYR:HE1	1:177:A:MET:H	9	0.68
(1,5803)	1:18:A:THR:HG23	1:16:A:GLU:HB2	10	0.67
(1,5803)	1:18:A:THR:HG23	1:16:A:GLU:HB3	10	0.67
(1,5558)	1:12:A:VAL:HG12	1:17:A:ARG:H	4	0.67
(1,5020)	1:85:A:LEU:H	1:88:A:ARG:HE	3	0.67
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD1	19	0.67
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD2	19	0.67
(1,3436)	1:12:A:VAL:HG21	1:60:A:LYS:HE2	4	0.67
(1,3436)	1:12:A:VAL:HG21	1:60:A:LYS:HE3	4	0.67
(1,3436)	1:12:A:VAL:HG21	1:60:A:LYS:HE2	16	0.67
(1,3436)	1:12:A:VAL:HG21	1:60:A:LYS:HE3	16	0.67
(1,3435)	1:12:A:VAL:HG21	1:60:A:LYS:HE2	4	0.67
(1,3435)	1:12:A:VAL:HG21	1:60:A:LYS:HE3	4	0.67
(1,3435)	1:12:A:VAL:HG21	1:60:A:LYS:HE2	16	0.67
(1,3435)	1:12:A:VAL:HG21	1:60:A:LYS:HE3	16	0.67
(1,3339)	1:123:A:LEU:HB3	1:150:A:LEU:HG	5	0.67
(1,3053)	1:55:A:ALA:HB3	1:40:A:GLN:HA	19	0.67
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG11	15	0.67
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG12	15	0.67
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG13	15	0.67
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG21	15	0.67
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG22	15	0.67
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG23	15	0.67
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG21	7	0.67
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG22	7	0.67
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG23	7	0.67
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD11	10	0.67
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD12	10	0.67
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD13	10	0.67
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD21	10	0.67
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD22	10	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD23	10	0.67
(1,2657)	1:12:A:VAL:HG21	1:60:A:LYS:HE2	4	0.67
(1,2657)	1:12:A:VAL:HG21	1:60:A:LYS:HE3	4	0.67
(1,2657)	1:12:A:VAL:HG21	1:60:A:LYS:HE2	16	0.67
(1,2657)	1:12:A:VAL:HG21	1:60:A:LYS:HE3	16	0.67
(1,2481)	1:187:A:ALA:HB2	1:190:A:TYR:HD1	4	0.67
(1,2481)	1:187:A:ALA:HB2	1:190:A:TYR:HD2	4	0.67
(1,5787)	1:98:A:ILE:HD11	1:100:A:GLU:H	20	0.66
(1,5557)	1:197:A:ARG:HG2	1:201:A:TYR:H	12	0.66
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD1	18	0.66
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD2	18	0.66
(1,5322)	1:149:A:ASN:H	1:146:A:LYS:HG2	20	0.66
(1,5322)	1:149:A:ASN:H	1:146:A:LYS:HG3	20	0.66
(1,5054)	1:78:A:LEU:H	1:75:A:LYS:HG2	12	0.66
(1,5054)	1:78:A:LEU:H	1:75:A:LYS:HG3	12	0.66
(1,5053)	1:78:A:LEU:H	1:80:A:LYS:HG2	14	0.66
(1,5053)	1:78:A:LEU:H	1:80:A:LYS:HG3	14	0.66
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB2	7	0.66
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB3	7	0.66
(1,3516)	1:22:A:PRO:HG2	1:46:A:PHE:HB2	17	0.66
(1,3516)	1:22:A:PRO:HG2	1:46:A:PHE:HB3	17	0.66
(1,3516)	1:22:A:PRO:HG3	1:46:A:PHE:HB2	17	0.66
(1,3516)	1:22:A:PRO:HG3	1:46:A:PHE:HB3	17	0.66
(1,3091)	1:129:A:PHE:H	1:88:A:ARG:HD2	15	0.66
(1,3091)	1:129:A:PHE:H	1:88:A:ARG:HD3	15	0.66
(1,3048)	1:34:A:ILE:HB	1:51:A:PHE:HA	9	0.66
(1,3016)	1:157:A:VAL:HG23	1:156:A:LEU:HA	6	0.66
(1,3016)	1:157:A:VAL:HG22	1:156:A:LEU:HA	12	0.66
(1,3016)	1:157:A:VAL:HG22	1:156:A:LEU:HA	17	0.66
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	9	0.66
(1,2848)	1:11:A:VAL:HG23	1:44:A:ARG:H	19	0.66
(1,2843)	1:181:A:ILE:HD12	1:153:A:LEU:HB2	9	0.66
(1,2843)	1:181:A:ILE:HD12	1:153:A:LEU:HB3	9	0.66
(1,2843)	1:181:A:ILE:HD13	1:153:A:LEU:HB2	15	0.66
(1,2843)	1:181:A:ILE:HD13	1:153:A:LEU:HB3	15	0.66
(1,2841)	1:166:A:ILE:HD11	1:175:A:ILE:H	19	0.66
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD2	17	0.66
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD3	17	0.66
(1,2549)	1:36:A:VAL:HG13	1:37:A:LYS:HA	12	0.66
(1,2536)	1:181:A:ILE:HD12	1:179:A:LEU:HA	18	0.66
(1,2532)	1:183:A:ILE:HG22	1:182:A:PRO:HA	3	0.66
(1,2530)	1:36:A:VAL:HG13	1:37:A:LYS:HA	12	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2461)	1:64:A:ILE:HD12	1:66:A:ASN:H	2	0.66
(1,2418)	1:200:A:LEU:HD22	1:153:A:LEU:H	19	0.66
(1,2373)	1:26:A:ILE:HD12	1:43:A:VAL:H	10	0.66
(1,5665)	1:50:A:LYS:HB2	1:133:A:ARG:H	18	0.65
(1,5558)	1:9:A:VAL:HG12	1:8:A:VAL:H	18	0.65
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	17	0.65
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	17	0.65
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	17	0.65
(1,3048)	1:34:A:ILE:HB	1:51:A:PHE:HA	17	0.65
(1,3016)	1:157:A:VAL:HG23	1:156:A:LEU:HA	3	0.65
(1,3016)	1:157:A:VAL:HG21	1:156:A:LEU:HA	10	0.65
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB2	13	0.65
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB3	13	0.65
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	17	0.65
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD2	19	0.65
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD3	19	0.65
(1,2536)	1:181:A:ILE:HD13	1:179:A:LEU:HA	19	0.65
(1,2429)	1:181:A:ILE:HD11	1:180:A:GLY:H	4	0.65
(1,2429)	1:181:A:ILE:HD12	1:180:A:GLY:H	9	0.65
(1,2426)	1:101:A:ILE:HG23	1:103:A:GLU:H	17	0.65
(1,2373)	1:26:A:ILE:HD12	1:44:A:ARG:H	1	0.65
(1,2373)	1:26:A:ILE:HD13	1:44:A:ARG:H	6	0.65
(1,172)	1:122:A:PHE:HE2	1:126:A:LEU:HG	9	0.65
(1,5678)	1:137:A:ILE:HD13	1:130:A:MET:H	16	0.64
(1,5475)	1:197:A:ARG:H	1:193:A:LYS:HE2	16	0.64
(1,5475)	1:197:A:ARG:H	1:193:A:LYS:HE3	16	0.64
(1,3436)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	11	0.64
(1,3436)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	11	0.64
(1,3436)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	15	0.64
(1,3436)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	15	0.64
(1,3436)	1:12:A:VAL:HG13	1:60:A:LYS:HE2	17	0.64
(1,3436)	1:12:A:VAL:HG13	1:60:A:LYS:HE3	17	0.64
(1,3435)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	11	0.64
(1,3435)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	11	0.64
(1,3435)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	15	0.64
(1,3435)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	15	0.64
(1,3435)	1:12:A:VAL:HG13	1:60:A:LYS:HE2	17	0.64
(1,3435)	1:12:A:VAL:HG13	1:60:A:LYS:HE3	17	0.64
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	13	0.64
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	13	0.64
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	13	0.64
(1,2908)	1:137:A:ILE:HD13	1:130:A:MET:H	16	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD1	1	0.64
(1,2892)	1:175:A:ILE:HD12	1:176:A:TYR:HD2	1	0.64
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG11	12	0.64
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG12	12	0.64
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG13	12	0.64
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG21	12	0.64
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG22	12	0.64
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG23	12	0.64
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG11	13	0.64
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG12	13	0.64
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG13	13	0.64
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG21	13	0.64
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG22	13	0.64
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG23	13	0.64
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG21	12	0.64
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG22	12	0.64
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG23	12	0.64
(1,2657)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	11	0.64
(1,2657)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	11	0.64
(1,2657)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	15	0.64
(1,2657)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	15	0.64
(1,2536)	1:181:A:ILE:HD12	1:179:A:LEU:HA	2	0.64
(1,2442)	1:101:A:ILE:HD11	1:100:A:GLU:H	20	0.64
(1,5665)	1:34:A:ILE:HG13	1:33:A:ASP:H	3	0.63
(1,5625)	1:146:A:LYS:HG2	1:145:A:TYR:H	7	0.63
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG12	20	0.63
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG13	20	0.63
(1,5128)	1:197:A:ARG:H	1:200:A:LEU:HG	3	0.63
(1,4965)	1:84:A:PHE:H	1:88:A:ARG:HE	11	0.63
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	8	0.63
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	8	0.63
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD11	11	0.63
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD12	11	0.63
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD13	11	0.63
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD21	11	0.63
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD22	11	0.63
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD23	11	0.63
(1,3016)	1:157:A:VAL:HG11	1:156:A:LEU:HA	4	0.63
(1,2866)	1:210:A:ALA:HA	1:212:A:ILE:HG12	12	0.63
(1,2866)	1:210:A:ALA:HA	1:212:A:ILE:HG13	12	0.63
(1,2848)	1:11:A:VAL:HG21	1:44:A:ARG:H	20	0.63
(1,2826)	1:59:A:ILE:HB	1:9:A:VAL:HB	8	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2699)	1:8:A:VAL:HG23	1:85:A:LEU:HG	3	0.63
(1,2665)	1:47:A:ILE:HD13	1:48:A:ASP:HB2	15	0.63
(1,2665)	1:47:A:ILE:HD13	1:48:A:ASP:HB3	15	0.63
(1,2645)	1:54:A:ILE:HG21	1:57:A:LYS:HE2	2	0.63
(1,2645)	1:54:A:ILE:HG21	1:57:A:LYS:HE3	2	0.63
(1,2536)	1:181:A:ILE:HD11	1:179:A:LEU:HA	3	0.63
(1,2536)	1:181:A:ILE:HD13	1:179:A:LEU:HA	11	0.63
(1,2481)	1:187:A:ALA:HB1	1:190:A:TYR:HD1	12	0.63
(1,2481)	1:187:A:ALA:HB1	1:190:A:TYR:HD2	12	0.63
(1,2429)	1:181:A:ILE:HD13	1:180:A:GLY:H	17	0.63
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG21	11	0.62
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG22	11	0.62
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG23	11	0.62
(1,5625)	1:146:A:LYS:HG2	1:145:A:TYR:H	14	0.62
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	2	0.62
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	2	0.62
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	2	0.62
(1,5054)	1:78:A:LEU:H	1:75:A:LYS:HG2	3	0.62
(1,5054)	1:78:A:LEU:H	1:75:A:LYS:HG3	3	0.62
(1,5054)	1:78:A:LEU:H	1:75:A:LYS:HG2	13	0.62
(1,5054)	1:78:A:LEU:H	1:75:A:LYS:HG3	13	0.62
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD1	6	0.62
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD2	6	0.62
(1,4908)	1:20:A:TRP:HE1	1:75:A:LYS:HD2	5	0.62
(1,4908)	1:20:A:TRP:HE1	1:75:A:LYS:HD3	5	0.62
(1,4907)	1:20:A:TRP:HE1	1:78:A:LEU:HB2	20	0.62
(1,4907)	1:20:A:TRP:HE1	1:78:A:LEU:HB3	20	0.62
(1,3544)	1:97:A:ASP:HB3	1:99:A:SER:HA	9	0.62
(1,2970)	1:68:A:PRO:HG2	1:70:A:SER:HB2	14	0.62
(1,2970)	1:68:A:PRO:HG2	1:70:A:SER:HB3	14	0.62
(1,2905)	1:126:A:LEU:HD11	1:199:A:TYR:HD1	16	0.62
(1,2905)	1:126:A:LEU:HD11	1:199:A:TYR:HD2	16	0.62
(1,2892)	1:175:A:ILE:HD13	1:176:A:TYR:HD1	2	0.62
(1,2892)	1:175:A:ILE:HD13	1:176:A:TYR:HD2	2	0.62
(1,2884)	1:61:A:GLU:HG2	1:3:A:GLU:HA	7	0.62
(1,2826)	1:59:A:ILE:HB	1:61:A:GLU:HG2	18	0.62
(1,2826)	1:59:A:ILE:HB	1:61:A:GLU:HG3	18	0.62
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG21	6	0.62
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG22	6	0.62
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG23	6	0.62
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG11	8	0.62
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG12	8	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG13	8	0.62
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG21	8	0.62
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG22	8	0.62
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG23	8	0.62
(1,2606)	1:64:A:ILE:HD13	1:78:A:LEU:HA	15	0.62
(1,2554)	1:175:A:ILE:HD12	1:192:A:VAL:HA	5	0.62
(1,2541)	1:142:A:VAL:HB	1:148:A:LEU:HA	6	0.62
(1,2539)	1:54:A:ILE:HD12	1:11:A:VAL:HA	10	0.62
(1,2534)	1:101:A:ILE:HG22	1:140:A:PRO:HA	2	0.62
(1,2474)	1:101:A:ILE:HD12	1:127:A:TYR:HD1	15	0.62
(1,2474)	1:101:A:ILE:HD12	1:127:A:TYR:HD2	15	0.62
(1,2459)	1:90:A:VAL:HG23	1:94:A:TRP:HZ3	16	0.62
(1,2457)	1:90:A:VAL:HG23	1:94:A:TRP:HZ3	16	0.62
(1,2429)	1:181:A:ILE:HD13	1:180:A:GLY:H	1	0.62
(1,2429)	1:181:A:ILE:HD11	1:180:A:GLY:H	7	0.62
(1,2379)	1:24:A:LEU:HD12	1:46:A:PHE:H	16	0.62
(1,2373)	1:26:A:ILE:HD12	1:43:A:VAL:H	16	0.62
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	16	0.61
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	16	0.61
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	16	0.61
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	16	0.61
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	16	0.61
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	16	0.61
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG12	5	0.61
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG13	5	0.61
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG12	12	0.61
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG13	12	0.61
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	16	0.61
(1,5247)	1:40:A:GLN:HE21	1:55:A:ALA:HA	5	0.61
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB2	14	0.61
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB3	14	0.61
(1,4965)	1:84:A:PHE:H	1:88:A:ARG:HE	2	0.61
(1,3436)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	10	0.61
(1,3436)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	10	0.61
(1,3435)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	10	0.61
(1,3435)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	10	0.61
(1,2866)	1:210:A:ALA:HA	1:5:A:LEU:HB2	17	0.61
(1,2866)	1:210:A:ALA:HA	1:5:A:LEU:HB3	17	0.61
(1,2696)	1:181:A:ILE:HB	1:183:A:ILE:HB	5	0.61
(1,2657)	1:12:A:VAL:HG22	1:60:A:LYS:HE2	10	0.61
(1,2657)	1:12:A:VAL:HG22	1:60:A:LYS:HE3	10	0.61
(1,2578)	1:64:A:ILE:HD13	1:62:A:VAL:HA	19	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2571)	1:130:A:MET:HE2	1:198:A:LYS:HA	15	0.61
(1,2571)	1:130:A:MET:HE1	1:136:A:PRO:HA	17	0.61
(1,2429)	1:181:A:ILE:HD12	1:180:A:GLY:H	6	0.61
(1,2418)	1:200:A:LEU:HD13	1:199:A:TYR:H	3	0.61
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB2	19	0.6
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB3	19	0.6
(1,5128)	1:197:A:ARG:H	1:198:A:LYS:HD2	17	0.6
(1,5128)	1:197:A:ARG:H	1:198:A:LYS:HD3	17	0.6
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB2	17	0.6
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB3	17	0.6
(1,3287)	1:53:A:SER:HB3	1:37:A:LYS:HD2	5	0.6
(1,3287)	1:53:A:SER:HB3	1:37:A:LYS:HD3	5	0.6
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	9	0.6
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	9	0.6
(1,2903)	1:11:A:VAL:HG23	1:54:A:ILE:HB	6	0.6
(1,2708)	1:137:A:ILE:HD12	1:140:A:PRO:HB2	3	0.6
(1,2708)	1:137:A:ILE:HD12	1:140:A:PRO:HB3	3	0.6
(1,2708)	1:137:A:ILE:HD12	1:140:A:PRO:HB2	16	0.6
(1,2708)	1:137:A:ILE:HD12	1:140:A:PRO:HB3	16	0.6
(1,2669)	1:85:A:LEU:HD12	1:8:A:VAL:HB	17	0.6
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB2	7	0.6
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB3	7	0.6
(1,2549)	1:36:A:VAL:HG12	1:37:A:LYS:HA	6	0.6
(1,2541)	1:142:A:VAL:HB	1:148:A:LEU:HA	13	0.6
(1,2539)	1:54:A:ILE:HD12	1:11:A:VAL:HA	9	0.6
(1,2536)	1:181:A:ILE:HD12	1:179:A:LEU:HA	5	0.6
(1,2534)	1:101:A:ILE:HG23	1:140:A:PRO:HA	19	0.6
(1,2530)	1:36:A:VAL:HG12	1:37:A:LYS:HA	6	0.6
(1,2461)	1:64:A:ILE:HD11	1:66:A:ASN:H	5	0.6
(1,2429)	1:181:A:ILE:HD12	1:180:A:GLY:H	19	0.6
(1,2429)	1:181:A:ILE:HD11	1:180:A:GLY:H	20	0.6
(1,2260)	1:101:A:ILE:HA	1:100:A:GLU:HG2	11	0.6
(1,2260)	1:101:A:ILE:HA	1:100:A:GLU:HG3	11	0.6
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB2	15	0.6
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB3	15	0.6
(1,160)	1:145:A:TYR:HE1	1:184:A:LEU:HB2	3	0.6
(1,160)	1:145:A:TYR:HE1	1:184:A:LEU:HB3	3	0.6
(1,128)	1:51:A:PHE:HD1	1:44:A:ARG:HG2	12	0.6
(1,128)	1:51:A:PHE:HD1	1:44:A:ARG:HG3	12	0.6
(1,5801)	1:146:A:LYS:HE2	1:182:A:PRO:HG2	20	0.59
(1,5801)	1:146:A:LYS:HE2	1:182:A:PRO:HG3	20	0.59
(1,5665)	1:50:A:LYS:HB3	1:133:A:ARG:H	14	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5490)	1:63:A:ASP:H	1:61:A:GLU:HB2	19	0.59
(1,5490)	1:63:A:ASP:H	1:61:A:GLU:HB3	19	0.59
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	10	0.59
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	10	0.59
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	10	0.59
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	10	0.59
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	10	0.59
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	10	0.59
(1,5373)	1:134:A:GLY:H	1:44:A:ARG:HD2	18	0.59
(1,5373)	1:134:A:GLY:H	1:44:A:ARG:HD3	18	0.59
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB2	12	0.59
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB3	12	0.59
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD1	8	0.59
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD2	8	0.59
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	13	0.59
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	13	0.59
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	13	0.59
(1,3016)	1:157:A:VAL:HG21	1:156:A:LEU:HA	1	0.59
(1,3016)	1:157:A:VAL:HG22	1:156:A:LEU:HA	18	0.59
(1,3012)	1:160:A:GLN:HG2	1:156:A:LEU:HA	5	0.59
(1,2866)	1:210:A:ALA:HA	1:5:A:LEU:HB2	2	0.59
(1,2866)	1:210:A:ALA:HA	1:5:A:LEU:HB3	2	0.59
(1,2804)	1:171:A:VAL:HG12	1:157:A:VAL:HG11	19	0.59
(1,2804)	1:171:A:VAL:HG12	1:157:A:VAL:HG12	19	0.59
(1,2804)	1:171:A:VAL:HG12	1:157:A:VAL:HG13	19	0.59
(1,2804)	1:171:A:VAL:HG12	1:157:A:VAL:HG21	19	0.59
(1,2804)	1:171:A:VAL:HG12	1:157:A:VAL:HG22	19	0.59
(1,2804)	1:171:A:VAL:HG12	1:157:A:VAL:HG23	19	0.59
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG11	19	0.59
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG12	19	0.59
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG13	19	0.59
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG21	19	0.59
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG22	19	0.59
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG23	19	0.59
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB2	2	0.59
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB3	2	0.59
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB2	4	0.59
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB3	4	0.59
(1,2696)	1:181:A:ILE:HB	1:183:A:ILE:HB	7	0.59
(1,2685)	1:67:A:LEU:HD11	1:71:A:GLU:HB2	20	0.59
(1,2685)	1:67:A:LEU:HD11	1:71:A:GLU:HB3	20	0.59
(1,2596)	1:90:A:VAL:HG22	1:85:A:LEU:HA	11	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2578)	1:64:A:ILE:HD13	1:62:A:VAL:HA	1	0.59
(1,2448)	1:130:A:MET:HE1	1:200:A:LEU:H	6	0.59
(1,2429)	1:181:A:ILE:HD11	1:180:A:GLY:H	5	0.59
(1,2375)	1:60:A:LYS:HD2	1:61:A:GLU:H	4	0.59
(1,2373)	1:26:A:ILE:HD11	1:44:A:ARG:H	13	0.59
(1,5803)	1:18:A:THR:HG22	1:16:A:GLU:HB2	20	0.58
(1,5803)	1:18:A:THR:HG22	1:16:A:GLU:HB3	20	0.58
(1,5697)	1:139:A:LYS:HD3	1:138:A:ASN:HD21	11	0.58
(1,5697)	1:139:A:LYS:HD3	1:138:A:ASN:HD22	11	0.58
(1,5697)	1:124:A:GLN:HB2	1:121:A:ASN:HD21	15	0.58
(1,5697)	1:124:A:GLN:HB2	1:121:A:ASN:HD22	15	0.58
(1,5679)	1:139:A:LYS:HD2	1:138:A:ASN:HD21	15	0.58
(1,5679)	1:139:A:LYS:HD2	1:138:A:ASN:HD22	15	0.58
(1,5679)	1:139:A:LYS:HD3	1:138:A:ASN:HD21	15	0.58
(1,5679)	1:139:A:LYS:HD3	1:138:A:ASN:HD22	15	0.58
(1,5625)	1:146:A:LYS:HG2	1:145:A:TYR:H	3	0.58
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	2	0.58
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	2	0.58
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG12	6	0.58
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG13	6	0.58
(1,5416)	1:10:A:SER:H	1:61:A:GLU:HB2	20	0.58
(1,5416)	1:10:A:SER:H	1:61:A:GLU:HB3	20	0.58
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD1	16	0.58
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD2	16	0.58
(1,5386)	1:200:A:LEU:H	1:196:A:TYR:HE1	17	0.58
(1,5386)	1:200:A:LEU:H	1:196:A:TYR:HE2	17	0.58
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG11	18	0.58
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG12	18	0.58
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG13	18	0.58
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG21	18	0.58
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG22	18	0.58
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG23	18	0.58
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD11	9	0.58
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD12	9	0.58
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD13	9	0.58
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD21	9	0.58
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD22	9	0.58
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD23	9	0.58
(1,3505)	1:197:A:ARG:HG2	1:197:A:ARG:HA	11	0.58
(1,3399)	1:198:A:LYS:HD2	1:139:A:LYS:HB2	9	0.58
(1,3399)	1:198:A:LYS:HD2	1:139:A:LYS:HB3	9	0.58
(1,3338)	1:100:A:GLU:HB2	1:101:A:ILE:HG12	8	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3338)	1:100:A:GLU:HB2	1:101:A:ILE:HG13	8	0.58
(1,3115)	1:80:A:LYS:H	1:22:A:PRO:HG2	2	0.58
(1,3115)	1:80:A:LYS:H	1:22:A:PRO:HG3	2	0.58
(1,3014)	1:175:A:ILE:HG23	1:156:A:LEU:HA	3	0.58
(1,3014)	1:175:A:ILE:HG23	1:156:A:LEU:HA	5	0.58
(1,3014)	1:175:A:ILE:HG23	1:156:A:LEU:HA	7	0.58
(1,3012)	1:173:A:LYS:HB3	1:174:A:GLN:HA	1	0.58
(1,2903)	1:11:A:VAL:HG12	1:54:A:ILE:HB	10	0.58
(1,2884)	1:61:A:GLU:HG3	1:3:A:GLU:HA	18	0.58
(1,2843)	1:181:A:ILE:HD13	1:182:A:PRO:HG2	2	0.58
(1,2843)	1:181:A:ILE:HD13	1:182:A:PRO:HG3	2	0.58
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB2	20	0.58
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB3	20	0.58
(1,2549)	1:36:A:VAL:HG11	1:37:A:LYS:HA	14	0.58
(1,2538)	1:183:A:ILE:HD13	1:184:A:LEU:HA	7	0.58
(1,2536)	1:181:A:ILE:HD12	1:179:A:LEU:HA	10	0.58
(1,2536)	1:181:A:ILE:HD12	1:179:A:LEU:HA	12	0.58
(1,2535)	1:101:A:ILE:HD11	1:96:A:MET:HA	11	0.58
(1,2530)	1:36:A:VAL:HG11	1:37:A:LYS:HA	14	0.58
(1,2429)	1:181:A:ILE:HD12	1:180:A:GLY:H	11	0.58
(1,2429)	1:181:A:ILE:HD13	1:180:A:GLY:H	14	0.58
(1,2429)	1:181:A:ILE:HD11	1:180:A:GLY:H	18	0.58
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	6	0.58
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	6	0.58
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	9	0.58
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	9	0.58
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	15	0.58
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	15	0.58
(1,5788)	1:98:A:ILE:HD13	1:121:A:ASN:HA	16	0.57
(1,5786)	1:115:A:ASP:HA	1:117:A:GLU:H	9	0.57
(1,5665)	1:34:A:ILE:HG13	1:33:A:ASP:H	10	0.57
(1,5665)	1:34:A:ILE:HG13	1:33:A:ASP:H	17	0.57
(1,5128)	1:197:A:ARG:H	1:198:A:LYS:HD2	19	0.57
(1,5128)	1:197:A:ARG:H	1:198:A:LYS:HD3	19	0.57
(1,5054)	1:78:A:LEU:H	1:75:A:LYS:HG2	9	0.57
(1,5054)	1:78:A:LEU:H	1:75:A:LYS:HG3	9	0.57
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	1	0.57
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	1	0.57
(1,3434)	1:181:A:ILE:HG12	1:146:A:LYS:HE2	14	0.57
(1,3434)	1:181:A:ILE:HG12	1:146:A:LYS:HE3	14	0.57
(1,3339)	1:7:A:LYS:HB3	1:5:A:LEU:HG	1	0.57
(1,3012)	1:160:A:GLN:HG2	1:156:A:LEU:HA	14	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB2	1	0.57
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB3	1	0.57
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD11	8	0.57
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD12	8	0.57
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD13	8	0.57
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG21	19	0.57
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG22	19	0.57
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG23	19	0.57
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD11	3	0.57
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD12	3	0.57
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD13	3	0.57
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD21	3	0.57
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD22	3	0.57
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD23	3	0.57
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD11	8	0.57
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD12	8	0.57
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD13	8	0.57
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD21	8	0.57
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD22	8	0.57
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD23	8	0.57
(1,2708)	1:137:A:ILE:HD13	1:140:A:PRO:HB2	17	0.57
(1,2708)	1:137:A:ILE:HD13	1:140:A:PRO:HB3	17	0.57
(1,2636)	1:65:A:LEU:HD13	1:66:A:ASN:HB2	20	0.57
(1,2636)	1:65:A:LEU:HD13	1:66:A:ASN:HB3	20	0.57
(1,2571)	1:130:A:MET:HE3	1:136:A:PRO:HA	20	0.57
(1,2536)	1:181:A:ILE:HD12	1:179:A:LEU:HA	7	0.57
(1,2536)	1:181:A:ILE:HD13	1:179:A:LEU:HA	9	0.57
(1,2536)	1:181:A:ILE:HD12	1:179:A:LEU:HA	20	0.57
(1,2474)	1:101:A:ILE:HD13	1:101:A:ILE:H	5	0.57
(1,2471)	1:12:A:VAL:HG22	1:20:A:TRP:HD1	11	0.57
(1,2429)	1:181:A:ILE:HD12	1:180:A:GLY:H	15	0.57
(1,2400)	1:34:A:ILE:HD13	1:32:A:ASP:H	6	0.57
(1,5801)	1:146:A:LYS:HE2	1:182:A:PRO:HG2	2	0.56
(1,5801)	1:146:A:LYS:HE2	1:182:A:PRO:HG3	2	0.56
(1,5786)	1:115:A:ASP:HA	1:117:A:GLU:H	1	0.56
(1,5697)	1:139:A:LYS:HD2	1:138:A:ASN:HD21	17	0.56
(1,5697)	1:139:A:LYS:HD2	1:138:A:ASN:HD22	17	0.56
(1,5557)	1:124:A:GLN:HB3	1:95:A:LYS:H	14	0.56
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB2	4	0.56
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB3	4	0.56
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB2	8	0.56
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB3	8	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	8	0.56
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	8	0.56
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	8	0.56
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	8	0.56
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	8	0.56
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	8	0.56
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG12	18	0.56
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG13	18	0.56
(1,5312)	1:20:A:TRP:HE1	1:11:A:VAL:H	13	0.56
(1,5233)	1:1:A:ASN:HD21	1:61:A:GLU:HG2	10	0.56
(1,5233)	1:1:A:ASN:HD21	1:61:A:GLU:HG3	10	0.56
(1,5020)	1:85:A:LEU:H	1:46:A:PHE:HD1	17	0.56
(1,5020)	1:85:A:LEU:H	1:46:A:PHE:HD2	17	0.56
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD1	10	0.56
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD2	10	0.56
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	2	0.56
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	2	0.56
(1,3436)	1:12:A:VAL:HG23	1:60:A:LYS:HE2	3	0.56
(1,3436)	1:12:A:VAL:HG23	1:60:A:LYS:HE3	3	0.56
(1,3435)	1:12:A:VAL:HG23	1:60:A:LYS:HE2	3	0.56
(1,3435)	1:12:A:VAL:HG23	1:60:A:LYS:HE3	3	0.56
(1,3427)	1:184:A:LEU:HD11	1:182:A:PRO:HB2	16	0.56
(1,3427)	1:184:A:LEU:HD11	1:182:A:PRO:HB3	16	0.56
(1,3378)	1:173:A:LYS:HG3	1:183:A:ILE:HB	19	0.56
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	7	0.56
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	7	0.56
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	7	0.56
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	19	0.56
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	19	0.56
(1,3016)	1:157:A:VAL:HG22	1:156:A:LEU:HA	9	0.56
(1,3016)	1:157:A:VAL:HG23	1:156:A:LEU:HA	16	0.56
(1,3012)	1:173:A:LYS:HB3	1:174:A:GLN:HA	6	0.56
(1,2947)	1:30:A:CYS:HB2	1:29:A:SER:HB2	1	0.56
(1,2947)	1:30:A:CYS:HB2	1:29:A:SER:HB3	1	0.56
(1,2826)	1:59:A:ILE:HB	1:9:A:VAL:HB	17	0.56
(1,2826)	1:59:A:ILE:HB	1:61:A:GLU:HG2	19	0.56
(1,2826)	1:59:A:ILE:HB	1:61:A:GLU:HG3	19	0.56
(1,2717)	1:130:A:MET:HE2	1:137:A:ILE:HB	1	0.56
(1,2657)	1:12:A:VAL:HG23	1:60:A:LYS:HE2	3	0.56
(1,2657)	1:12:A:VAL:HG23	1:60:A:LYS:HE3	3	0.56
(1,2539)	1:54:A:ILE:HD11	1:14:A:ALA:HA	14	0.56
(1,2534)	1:101:A:ILE:HG22	1:140:A:PRO:HA	9	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2468)	1:84:A:PHE:HE2	1:88:A:ARG:HB2	3	0.56
(1,2468)	1:84:A:PHE:HE2	1:88:A:ARG:HB3	3	0.56
(1,2461)	1:64:A:ILE:HD13	1:66:A:ASN:H	16	0.56
(1,2459)	1:90:A:VAL:HG23	1:94:A:TRP:HZ3	13	0.56
(1,2457)	1:90:A:VAL:HG23	1:94:A:TRP:HZ3	13	0.56
(1,2429)	1:181:A:ILE:HD11	1:180:A:GLY:H	10	0.56
(1,2383)	1:43:A:VAL:HG23	1:52:A:TYR:H	18	0.56
(1,2238)	1:207:A:CYS:HA	1:213:A:GLN:HE21	5	0.56
(1,2238)	1:207:A:CYS:HA	1:213:A:GLN:HE22	5	0.56
(1,2238)	1:207:A:CYS:HA	1:213:A:GLN:HE21	11	0.56
(1,2238)	1:207:A:CYS:HA	1:213:A:GLN:HE22	11	0.56
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	17	0.56
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	17	0.56
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	18	0.56
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	18	0.56
(1,5850)	1:113:A:GLU:HG3	1:113:A:GLU:H	6	0.55
(1,5804)	1:167:A:ASP:HB2	1:168:A:SER:HB2	6	0.55
(1,5804)	1:167:A:ASP:HB2	1:168:A:SER:HB3	6	0.55
(1,5803)	1:18:A:THR:HG22	1:16:A:GLU:HB2	3	0.55
(1,5803)	1:18:A:THR:HG22	1:16:A:GLU:HB3	3	0.55
(1,5795)	1:167:A:ASP:HB2	1:168:A:SER:HB2	6	0.55
(1,5795)	1:167:A:ASP:HB2	1:168:A:SER:HB3	6	0.55
(1,5681)	1:44:A:ARG:HE	1:50:A:LYS:H	14	0.55
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	15	0.55
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	15	0.55
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	15	0.55
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	15	0.55
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	15	0.55
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	15	0.55
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB1	3	0.55
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB2	3	0.55
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB3	3	0.55
(1,5318)	1:36:A:VAL:H	1:37:A:LYS:HG2	3	0.55
(1,5318)	1:36:A:VAL:H	1:37:A:LYS:HG3	3	0.55
(1,5290)	1:73:A:SER:H	1:79:A:GLN:HG2	3	0.55
(1,5290)	1:73:A:SER:H	1:79:A:GLN:HG3	3	0.55
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB2	13	0.55
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB3	13	0.55
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	11	0.55
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	11	0.55
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	14	0.55
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	14	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	14	0.55
(1,3259)	1:56:A:ARG:HA	1:56:A:ARG:HD2	19	0.55
(1,3259)	1:56:A:ARG:HA	1:56:A:ARG:HD3	19	0.55
(1,3115)	1:80:A:LYS:H	1:22:A:PRO:HG2	18	0.55
(1,3115)	1:80:A:LYS:H	1:22:A:PRO:HG3	18	0.55
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	6	0.55
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	6	0.55
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	6	0.55
(1,3053)	1:55:A:ALA:HB1	1:40:A:GLN:HA	9	0.55
(1,3016)	1:157:A:VAL:HG23	1:156:A:LEU:HA	2	0.55
(1,3016)	1:157:A:VAL:HG12	1:156:A:LEU:HA	15	0.55
(1,3012)	1:173:A:LYS:HB3	1:174:A:GLN:HA	9	0.55
(1,2848)	1:11:A:VAL:HG23	1:44:A:ARG:H	12	0.55
(1,2848)	1:11:A:VAL:HG23	1:44:A:ARG:H	16	0.55
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD2	18	0.55
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD3	18	0.55
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD11	2	0.55
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD12	2	0.55
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD13	2	0.55
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD21	2	0.55
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD22	2	0.55
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD23	2	0.55
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG11	15	0.55
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG12	15	0.55
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG13	15	0.55
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG21	15	0.55
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG22	15	0.55
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG23	15	0.55
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG11	20	0.55
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG12	20	0.55
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG13	20	0.55
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG21	20	0.55
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG22	20	0.55
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG23	20	0.55
(1,2708)	1:137:A:ILE:HD12	1:140:A:PRO:HB2	1	0.55
(1,2708)	1:137:A:ILE:HD12	1:140:A:PRO:HB3	1	0.55
(1,2578)	1:64:A:ILE:HD13	1:62:A:VAL:HA	11	0.55
(1,2571)	1:130:A:MET:HE1	1:136:A:PRO:HA	5	0.55
(1,2534)	1:101:A:ILE:HG23	1:105:A:SER:HA	4	0.55
(1,2481)	1:187:A:ALA:HB3	1:191:A:ASN:HD21	15	0.55
(1,2481)	1:187:A:ALA:HB3	1:191:A:ASN:HD22	15	0.55
(1,2442)	1:101:A:ILE:HD13	1:100:A:GLU:H	15	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2429)	1:181:A:ILE:HD13	1:145:A:TYR:H	16	0.55
(1,2426)	1:101:A:ILE:HG23	1:103:A:GLU:H	9	0.55
(1,2389)	1:42:A:LEU:HG	1:36:A:VAL:H	8	0.55
(1,2383)	1:43:A:VAL:HG22	1:52:A:TYR:H	3	0.55
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG21	11	0.55
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG22	11	0.55
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG23	11	0.55
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	2	0.55
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	2	0.55
(1,113)	1:176:A:TYR:HD2	1:182:A:PRO:HA	2	0.55
(1,5861)	1:116:A:PRO:HG3	1:117:A:GLU:H	12	0.54
(1,5625)	1:143:A:LEU:HG	1:145:A:TYR:H	8	0.54
(1,5559)	1:24:A:LEU:HD21	1:8:A:VAL:H	4	0.54
(1,5553)	1:148:A:LEU:HG	1:142:A:VAL:H	4	0.54
(1,5430)	1:24:A:LEU:H	1:52:A:TYR:HE1	12	0.54
(1,5430)	1:24:A:LEU:H	1:52:A:TYR:HE2	12	0.54
(1,5375)	1:202:A:GLY:H	1:204:A:GLU:HB2	3	0.54
(1,5375)	1:202:A:GLY:H	1:204:A:GLU:HB3	3	0.54
(1,5322)	1:149:A:ASN:H	1:146:A:LYS:HG2	12	0.54
(1,5322)	1:149:A:ASN:H	1:146:A:LYS:HG3	12	0.54
(1,5237)	1:145:A:TYR:H	1:143:A:LEU:HG	8	0.54
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	14	0.54
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	17	0.54
(1,5053)	1:78:A:LEU:H	1:75:A:LYS:HD2	8	0.54
(1,5053)	1:78:A:LEU:H	1:75:A:LYS:HD3	8	0.54
(1,3053)	1:55:A:ALA:HB1	1:40:A:GLN:HA	5	0.54
(1,3053)	1:55:A:ALA:HB2	1:40:A:GLN:HA	12	0.54
(1,3012)	1:160:A:GLN:HG2	1:156:A:LEU:HA	8	0.54
(1,2866)	1:210:A:ALA:HA	1:212:A:ILE:HG12	9	0.54
(1,2866)	1:210:A:ALA:HA	1:212:A:ILE:HG13	9	0.54
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	7	0.54
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG21	4	0.54
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG22	4	0.54
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG23	4	0.54
(1,2708)	1:137:A:ILE:HD11	1:140:A:PRO:HB2	14	0.54
(1,2708)	1:137:A:ILE:HD11	1:140:A:PRO:HB3	14	0.54
(1,2479)	1:194:A:THR:HG23	1:199:A:TYR:HD1	11	0.54
(1,2479)	1:194:A:THR:HG23	1:199:A:TYR:HD2	11	0.54
(1,2385)	1:34:A:ILE:HB	1:52:A:TYR:H	6	0.54
(1,2375)	1:60:A:LYS:HD3	1:11:A:VAL:H	10	0.54
(1,173)	1:146:A:LYS:H	1:145:A:TYR:HD1	4	0.54
(1,173)	1:146:A:LYS:H	1:145:A:TYR:HD2	4	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	8	0.54
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	8	0.54
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	13	0.54
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	13	0.54
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	20	0.54
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	20	0.54
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD21	14	0.54
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD22	14	0.54
(1,5803)	1:18:A:THR:HG22	1:16:A:GLU:HB2	2	0.53
(1,5803)	1:18:A:THR:HG22	1:16:A:GLU:HB3	2	0.53
(1,5803)	1:18:A:THR:HG22	1:16:A:GLU:HB2	7	0.53
(1,5803)	1:18:A:THR:HG22	1:16:A:GLU:HB3	7	0.53
(1,5788)	1:98:A:ILE:HD12	1:105:A:SER:HA	6	0.53
(1,5788)	1:98:A:ILE:HD13	1:105:A:SER:HA	18	0.53
(1,5547)	1:100:A:GLU:HG3	1:100:A:GLU:H	12	0.53
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	14	0.53
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	14	0.53
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	14	0.53
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	14	0.53
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	14	0.53
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	14	0.53
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG12	2	0.53
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG13	2	0.53
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD11	10	0.53
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD12	10	0.53
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD13	10	0.53
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD21	10	0.53
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD22	10	0.53
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD23	10	0.53
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG11	15	0.53
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG12	15	0.53
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG13	15	0.53
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG21	15	0.53
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG22	15	0.53
(1,5362)	1:40:A:GLN:HE21	1:36:A:VAL:HG23	15	0.53
(1,5252)	1:88:A:ARG:HE	1:46:A:PHE:HB2	9	0.53
(1,5252)	1:88:A:ARG:HE	1:46:A:PHE:HB3	9	0.53
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	6	0.53
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	15	0.53
(1,5053)	1:78:A:LEU:H	1:72:A:LEU:HB2	16	0.53
(1,5053)	1:78:A:LEU:H	1:72:A:LEU:HB3	16	0.53
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB2	16	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB3	16	0.53
(1,3439)	1:102:A:LEU:HD21	1:147:A:ASP:HB2	11	0.53
(1,3439)	1:102:A:LEU:HD21	1:147:A:ASP:HB3	11	0.53
(1,3439)	1:102:A:LEU:HD11	1:147:A:ASP:HB2	14	0.53
(1,3439)	1:102:A:LEU:HD11	1:147:A:ASP:HB3	14	0.53
(1,3330)	1:100:A:GLU:HG2	1:101:A:ILE:HG12	17	0.53
(1,3330)	1:100:A:GLU:HG2	1:101:A:ILE:HG13	17	0.53
(1,3048)	1:34:A:ILE:HB	1:51:A:PHE:HA	8	0.53
(1,3037)	1:146:A:LYS:HG2	1:182:A:PRO:HD2	20	0.53
(1,3037)	1:146:A:LYS:HG2	1:182:A:PRO:HD3	20	0.53
(1,3014)	1:175:A:ILE:HG21	1:156:A:LEU:HA	9	0.53
(1,3014)	1:175:A:ILE:HG21	1:156:A:LEU:HA	12	0.53
(1,2970)	1:68:A:PRO:HG2	1:70:A:SER:HB2	19	0.53
(1,2970)	1:68:A:PRO:HG2	1:70:A:SER:HB3	19	0.53
(1,2903)	1:11:A:VAL:HG13	1:54:A:ILE:HB	13	0.53
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	8	0.53
(1,2826)	1:59:A:ILE:HB	1:9:A:VAL:HB	2	0.53
(1,2578)	1:64:A:ILE:HD11	1:62:A:VAL:HA	8	0.53
(1,2575)	1:64:A:ILE:HG21	1:82:A:SER:HA	18	0.53
(1,2538)	1:183:A:ILE:HD12	1:184:A:LEU:HA	17	0.53
(1,2531)	1:142:A:VAL:HG21	1:143:A:LEU:HA	12	0.53
(1,2489)	1:87:A:THR:HG23	1:89:A:VAL:H	20	0.53
(1,2442)	1:101:A:ILE:HD12	1:100:A:GLU:H	13	0.53
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	13	0.53
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	18	0.53
(1,2373)	1:26:A:ILE:HD13	1:43:A:VAL:H	3	0.53
(1,5842)	1:222:A:LEU:H	1:221:A:GLU:HG2	6	0.52
(1,5842)	1:222:A:LEU:H	1:221:A:GLU:HG3	6	0.52
(1,5785)	1:222:A:LEU:H	1:221:A:GLU:HG2	6	0.52
(1,5785)	1:222:A:LEU:H	1:221:A:GLU:HG3	6	0.52
(1,5665)	1:50:A:LYS:HB2	1:133:A:ARG:H	11	0.52
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD21	8	0.52
(1,5654)	1:27:A:SER:HA	1:31:A:ASN:HD22	8	0.52
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB2	6	0.52
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB3	6	0.52
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	6	0.52
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	6	0.52
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	6	0.52
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	6	0.52
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	6	0.52
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	6	0.52
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG12	16	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG13	16	0.52
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD1	9	0.52
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD2	9	0.52
(1,5053)	1:78:A:LEU:H	1:72:A:LEU:HB2	13	0.52
(1,5053)	1:78:A:LEU:H	1:72:A:LEU:HB3	13	0.52
(1,5020)	1:85:A:LEU:H	1:88:A:ARG:HE	19	0.52
(1,3436)	1:12:A:VAL:HG12	1:60:A:LYS:HE2	1	0.52
(1,3436)	1:12:A:VAL:HG12	1:60:A:LYS:HE3	1	0.52
(1,3435)	1:12:A:VAL:HG12	1:60:A:LYS:HE2	1	0.52
(1,3435)	1:12:A:VAL:HG12	1:60:A:LYS:HE3	1	0.52
(1,3339)	1:123:A:LEU:HB3	1:150:A:LEU:HG	8	0.52
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD11	6	0.52
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD12	6	0.52
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD13	6	0.52
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD21	6	0.52
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD22	6	0.52
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD23	6	0.52
(1,3053)	1:55:A:ALA:HB1	1:40:A:GLN:HA	6	0.52
(1,3014)	1:175:A:ILE:HG22	1:156:A:LEU:HA	10	0.52
(1,3014)	1:175:A:ILE:HG22	1:156:A:LEU:HA	17	0.52
(1,3014)	1:175:A:ILE:HG21	1:156:A:LEU:HA	20	0.52
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD11	9	0.52
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD12	9	0.52
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD13	9	0.52
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD21	9	0.52
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD22	9	0.52
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD23	9	0.52
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD11	20	0.52
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD12	20	0.52
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD13	20	0.52
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD21	20	0.52
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD22	20	0.52
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD23	20	0.52
(1,2685)	1:67:A:LEU:HD12	1:71:A:GLU:HB2	15	0.52
(1,2685)	1:67:A:LEU:HD12	1:71:A:GLU:HB3	15	0.52
(1,2575)	1:64:A:ILE:HG22	1:78:A:LEU:HA	11	0.52
(1,2575)	1:64:A:ILE:HG23	1:78:A:LEU:HA	19	0.52
(1,2541)	1:142:A:VAL:HB	1:148:A:LEU:HA	20	0.52
(1,2479)	1:194:A:THR:HG21	1:199:A:TYR:HD1	14	0.52
(1,2479)	1:194:A:THR:HG21	1:199:A:TYR:HD2	14	0.52
(1,2462)	1:197:A:ARG:HD3	1:201:A:TYR:HD1	12	0.52
(1,2462)	1:197:A:ARG:HD3	1:201:A:TYR:HD2	12	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2400)	1:34:A:ILE:HD11	1:52:A:TYR:H	12	0.52
(1,2375)	1:60:A:LYS:HD3	1:61:A:GLU:H	2	0.52
(1,168)	1:190:A:TYR:HE1	1:191:A:ASN:HD21	7	0.52
(1,168)	1:190:A:TYR:HE1	1:191:A:ASN:HD22	7	0.52
(1,5861)	1:116:A:PRO:HG2	1:117:A:GLU:H	9	0.51
(1,5803)	1:18:A:THR:HG23	1:16:A:GLU:HB2	4	0.51
(1,5803)	1:18:A:THR:HG23	1:16:A:GLU:HB3	4	0.51
(1,5803)	1:18:A:THR:HG22	1:16:A:GLU:HB2	11	0.51
(1,5803)	1:18:A:THR:HG22	1:16:A:GLU:HB3	11	0.51
(1,5549)	1:204:A:GLU:HB3	1:201:A:TYR:H	10	0.51
(1,5416)	1:10:A:SER:H	1:61:A:GLU:HB2	3	0.51
(1,5416)	1:10:A:SER:H	1:61:A:GLU:HB3	3	0.51
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	14	0.51
(1,5247)	1:40:A:GLN:HE21	1:37:A:LYS:HA	14	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD11	2	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD12	2	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD13	2	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD21	2	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD22	2	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD23	2	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD11	16	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD12	16	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD13	16	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD21	16	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD22	16	0.51
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD23	16	0.51
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	4	0.51
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	20	0.51
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB2	18	0.51
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB3	18	0.51
(1,4965)	1:84:A:PHE:H	1:88:A:ARG:HE	7	0.51
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	3	0.51
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	3	0.51
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	3	0.51
(1,3312)	1:158:A:TYR:HB2	1:157:A:VAL:HB	4	0.51
(1,3091)	1:87:A:THR:H	1:88:A:ARG:HD2	20	0.51
(1,3091)	1:87:A:THR:H	1:88:A:ARG:HD3	20	0.51
(1,3053)	1:55:A:ALA:HB3	1:40:A:GLN:HA	1	0.51
(1,3053)	1:55:A:ALA:HB2	1:40:A:GLN:HA	3	0.51
(1,3012)	1:160:A:GLN:HG2	1:156:A:LEU:HA	7	0.51
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB2	20	0.51
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB3	20	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2905)	1:126:A:LEU:HD13	1:199:A:TYR:HD1	2	0.51
(1,2905)	1:126:A:LEU:HD13	1:199:A:TYR:HD2	2	0.51
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD11	20	0.51
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD12	20	0.51
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD13	20	0.51
(1,2848)	1:11:A:VAL:HG22	1:44:A:ARG:H	15	0.51
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD11	20	0.51
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD12	20	0.51
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD13	20	0.51
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD21	20	0.51
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD22	20	0.51
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD23	20	0.51
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG11	13	0.51
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG12	13	0.51
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG13	13	0.51
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG21	13	0.51
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG22	13	0.51
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG23	13	0.51
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG11	18	0.51
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG12	18	0.51
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG13	18	0.51
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG21	18	0.51
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG22	18	0.51
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG23	18	0.51
(1,2649)	1:64:A:ILE:HD12	1:63:A:ASP:HB2	9	0.51
(1,2649)	1:64:A:ILE:HD12	1:63:A:ASP:HB3	9	0.51
(1,2549)	1:36:A:VAL:HG11	1:37:A:LYS:HA	15	0.51
(1,2539)	1:54:A:ILE:HD12	1:14:A:ALA:HA	2	0.51
(1,2536)	1:181:A:ILE:HD11	1:179:A:LEU:HA	1	0.51
(1,2531)	1:142:A:VAL:HG23	1:143:A:LEU:HA	7	0.51
(1,2531)	1:142:A:VAL:HG13	1:147:A:ASP:HA	20	0.51
(1,2530)	1:36:A:VAL:HG11	1:37:A:LYS:HA	15	0.51
(1,2442)	1:101:A:ILE:HD11	1:100:A:GLU:H	10	0.51
(1,2418)	1:200:A:LEU:HD21	1:199:A:TYR:H	14	0.51
(1,2379)	1:24:A:LEU:HD11	1:44:A:ARG:H	3	0.51
(1,2373)	1:26:A:ILE:HD11	1:43:A:VAL:H	11	0.51
(1,2373)	1:26:A:ILE:HD13	1:43:A:VAL:H	17	0.51
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB2	14	0.51
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB3	14	0.51
(1,183)	1:145:A:TYR:H	1:145:A:TYR:HE1	1	0.51
(1,183)	1:145:A:TYR:H	1:145:A:TYR:HE2	1	0.51
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	3	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	3	0.51
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	14	0.51
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	14	0.51
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	19	0.51
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	19	0.51
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD21	13	0.51
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD22	13	0.51
(1,5797)	1:71:A:GLU:HA	1:68:A:PRO:HD2	5	0.5
(1,5797)	1:71:A:GLU:HA	1:68:A:PRO:HD3	5	0.5
(1,5797)	1:71:A:GLU:HA	1:68:A:PRO:HD2	8	0.5
(1,5797)	1:71:A:GLU:HA	1:68:A:PRO:HD3	8	0.5
(1,5602)	1:34:A:ILE:HG21	1:53:A:SER:H	14	0.5
(1,5558)	1:12:A:VAL:HG12	1:17:A:ARG:H	11	0.5
(1,5491)	1:37:A:LYS:H	1:37:A:LYS:HE2	17	0.5
(1,5491)	1:37:A:LYS:H	1:37:A:LYS:HE3	17	0.5
(1,5466)	1:47:A:ILE:H	1:77:A:GLY:HA2	12	0.5
(1,5466)	1:47:A:ILE:H	1:77:A:GLY:HA3	12	0.5
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG12	15	0.5
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG13	15	0.5
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD1	11	0.5
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD2	11	0.5
(1,5333)	1:221:A:GLU:H	1:222:A:LEU:HB2	6	0.5
(1,5333)	1:221:A:GLU:H	1:222:A:LEU:HB3	6	0.5
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	18	0.5
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	8	0.5
(1,4908)	1:20:A:TRP:HE1	1:60:A:LYS:HD2	16	0.5
(1,4908)	1:20:A:TRP:HE1	1:60:A:LYS:HD3	16	0.5
(1,3433)	1:4:A:LEU:HD21	1:56:A:ARG:HD2	20	0.5
(1,3433)	1:4:A:LEU:HD21	1:56:A:ARG:HD3	20	0.5
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	13	0.5
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	13	0.5
(1,3115)	1:80:A:LYS:H	1:22:A:PRO:HG2	7	0.5
(1,3115)	1:80:A:LYS:H	1:22:A:PRO:HG3	7	0.5
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	18	0.5
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	18	0.5
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	18	0.5
(1,3014)	1:175:A:ILE:HG22	1:156:A:LEU:HA	8	0.5
(1,3014)	1:175:A:ILE:HG21	1:156:A:LEU:HA	13	0.5
(1,3012)	1:160:A:GLN:HG2	1:156:A:LEU:HA	4	0.5
(1,3012)	1:160:A:GLN:HG2	1:156:A:LEU:HA	11	0.5
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD2	1	0.5
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD3	1	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2828)	1:137:A:ILE:HB	1:101:A:ILE:HA	12	0.5
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG11	17	0.5
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG12	17	0.5
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG13	17	0.5
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG21	17	0.5
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG22	17	0.5
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG23	17	0.5
(1,2532)	1:183:A:ILE:HG23	1:182:A:PRO:HA	10	0.5
(1,2489)	1:87:A:THR:HG23	1:84:A:PHE:HD1	18	0.5
(1,2489)	1:87:A:THR:HG23	1:84:A:PHE:HD2	18	0.5
(1,2481)	1:187:A:ALA:HB3	1:191:A:ASN:HD21	8	0.5
(1,2481)	1:187:A:ALA:HB3	1:191:A:ASN:HD22	8	0.5
(1,2471)	1:12:A:VAL:HG23	1:20:A:TRP:HD1	3	0.5
(1,2442)	1:101:A:ILE:HD11	1:100:A:GLU:H	18	0.5
(1,2429)	1:181:A:ILE:HD13	1:180:A:GLY:H	3	0.5
(1,2429)	1:181:A:ILE:HD13	1:180:A:GLY:H	8	0.5
(1,2385)	1:34:A:ILE:HB	1:52:A:TYR:H	17	0.5
(1,2238)	1:207:A:CYS:HA	1:213:A:GLN:HE21	15	0.5
(1,2238)	1:207:A:CYS:HA	1:213:A:GLN:HE22	15	0.5
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	5	0.5
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	5	0.5
(1,132)	1:154:A:PHE:HD1	1:158:A:TYR:HB2	20	0.5
(1,132)	1:154:A:PHE:HD1	1:158:A:TYR:HB3	20	0.5
(1,5861)	1:116:A:PRO:HG3	1:117:A:GLU:H	4	0.49
(1,5681)	1:94:A:TRP:HZ3	1:94:A:TRP:H	9	0.49
(1,5386)	1:200:A:LEU:H	1:196:A:TYR:HE1	8	0.49
(1,5386)	1:200:A:LEU:H	1:196:A:TYR:HE2	8	0.49
(1,5318)	1:36:A:VAL:H	1:34:A:ILE:HB	13	0.49
(1,5273)	1:135:A:THR:H	1:136:A:PRO:HB2	13	0.49
(1,5273)	1:135:A:THR:H	1:136:A:PRO:HB3	13	0.49
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	16	0.49
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	16	0.49
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	16	0.49
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	18	0.49
(1,5053)	1:78:A:LEU:H	1:72:A:LEU:HB2	7	0.49
(1,5053)	1:78:A:LEU:H	1:72:A:LEU:HB3	7	0.49
(1,4985)	1:19:A:GLU:H	1:19:A:GLU:HG2	15	0.49
(1,4985)	1:19:A:GLU:H	1:19:A:GLU:HG3	15	0.49
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	19	0.49
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	19	0.49
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	19	0.49
(1,4907)	1:20:A:TRP:HE1	1:78:A:LEU:HB2	9	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4907)	1:20:A:TRP:HE1	1:78:A:LEU:HB3	9	0.49
(1,3339)	1:123:A:LEU:HB3	1:150:A:LEU:HG	13	0.49
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG11	1	0.49
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG12	1	0.49
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG13	1	0.49
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG21	1	0.49
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG22	1	0.49
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG23	1	0.49
(1,3014)	1:175:A:ILE:HG23	1:156:A:LEU:HA	11	0.49
(1,3014)	1:175:A:ILE:HG21	1:156:A:LEU:HA	18	0.49
(1,3014)	1:175:A:ILE:HG21	1:156:A:LEU:HA	19	0.49
(1,2975)	1:179:A:LEU:HD21	1:176:A:TYR:HA	8	0.49
(1,2970)	1:68:A:PRO:HG2	1:70:A:SER:HB2	10	0.49
(1,2970)	1:68:A:PRO:HG2	1:70:A:SER:HB3	10	0.49
(1,2866)	1:210:A:ALA:HA	1:212:A:ILE:HG12	8	0.49
(1,2866)	1:210:A:ALA:HA	1:212:A:ILE:HG13	8	0.49
(1,2848)	1:11:A:VAL:HG21	1:44:A:ARG:H	9	0.49
(1,2745)	1:137:A:ILE:HD12	1:126:A:LEU:HB2	15	0.49
(1,2745)	1:137:A:ILE:HD12	1:126:A:LEU:HB3	15	0.49
(1,2643)	1:187:A:ALA:HB2	1:190:A:TYR:HB2	9	0.49
(1,2643)	1:187:A:ALA:HB2	1:190:A:TYR:HB3	9	0.49
(1,2548)	1:150:A:LEU:HD12	1:141:A:PRO:HA	5	0.49
(1,2534)	1:101:A:ILE:HG23	1:140:A:PRO:HA	12	0.49
(1,2429)	1:181:A:ILE:HD11	1:180:A:GLY:H	2	0.49
(1,2415)	1:19:A:GLU:H	1:19:A:GLU:HG2	15	0.49
(1,2415)	1:19:A:GLU:H	1:19:A:GLU:HG3	15	0.49
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	7	0.49
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	7	0.49
(1,5803)	1:18:A:THR:HG22	1:16:A:GLU:HB2	17	0.48
(1,5803)	1:18:A:THR:HG22	1:16:A:GLU:HB3	17	0.48
(1,5578)	1:153:A:LEU:HA	1:157:A:VAL:H	7	0.48
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	11	0.48
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	11	0.48
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	11	0.48
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	11	0.48
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	11	0.48
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	11	0.48
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB1	8	0.48
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB2	8	0.48
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB3	8	0.48
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD11	10	0.48
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD12	10	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD13	10	0.48
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD21	10	0.48
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD22	10	0.48
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD23	10	0.48
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD11	11	0.48
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD12	11	0.48
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD13	11	0.48
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD21	11	0.48
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD22	11	0.48
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD23	11	0.48
(1,5128)	1:197:A:ARG:H	1:200:A:LEU:HG	14	0.48
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB2	10	0.48
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB3	10	0.48
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB2	10	0.48
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB3	10	0.48
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	3	0.48
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	3	0.48
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	3	0.48
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	12	0.48
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	12	0.48
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	12	0.48
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD11	1	0.48
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD12	1	0.48
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD13	1	0.48
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD21	1	0.48
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD22	1	0.48
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD23	1	0.48
(1,3210)	1:15:A:THR:HA	1:17:A:ARG:HD2	20	0.48
(1,3210)	1:15:A:THR:HA	1:17:A:ARG:HD3	20	0.48
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD2	11	0.48
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD3	11	0.48
(1,3014)	1:175:A:ILE:HG23	1:156:A:LEU:HA	6	0.48
(1,3012)	1:160:A:GLN:HG2	1:156:A:LEU:HA	20	0.48
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	3	0.48
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD11	14	0.48
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD12	14	0.48
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD13	14	0.48
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD21	14	0.48
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD22	14	0.48
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD23	14	0.48
(1,2685)	1:67:A:LEU:HD13	1:71:A:GLU:HB2	8	0.48
(1,2685)	1:67:A:LEU:HD13	1:71:A:GLU:HB3	8	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2596)	1:90:A:VAL:HG21	1:85:A:LEU:HA	17	0.48
(1,2535)	1:101:A:ILE:HD11	1:97:A:ASP:HA	10	0.48
(1,2532)	1:183:A:ILE:HG21	1:184:A:LEU:HA	15	0.48
(1,2468)	1:84:A:PHE:HE1	1:88:A:ARG:HG2	19	0.48
(1,2468)	1:84:A:PHE:HE1	1:88:A:ARG:HG3	19	0.48
(1,2425)	1:54:A:ILE:HG23	1:12:A:VAL:H	12	0.48
(1,2389)	1:42:A:LEU:HG	1:36:A:VAL:H	10	0.48
(1,5559)	1:24:A:LEU:HD11	1:8:A:VAL:H	9	0.47
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB2	13	0.47
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB3	13	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	13	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	13	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	13	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	13	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	13	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	13	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	19	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	19	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	19	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	19	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	19	0.47
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	19	0.47
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG12	8	0.47
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG13	8	0.47
(1,5416)	1:10:A:SER:H	1:22:A:PRO:HB2	7	0.47
(1,5416)	1:10:A:SER:H	1:22:A:PRO:HB3	7	0.47
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB2	19	0.47
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB3	19	0.47
(1,5233)	1:1:A:ASN:HD22	1:61:A:GLU:HG2	3	0.47
(1,5233)	1:1:A:ASN:HD22	1:61:A:GLU:HG3	3	0.47
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB2	18	0.47
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB3	18	0.47
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	3	0.47
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	5	0.47
(1,4975)	1:75:A:LYS:H	1:74:A:THR:HB	15	0.47
(1,3433)	1:4:A:LEU:HD23	1:56:A:ARG:HD2	17	0.47
(1,3433)	1:4:A:LEU:HD23	1:56:A:ARG:HD3	17	0.47
(1,3312)	1:158:A:TYR:HB2	1:157:A:VAL:HB	3	0.47
(1,3139)	1:101:A:ILE:H	1:97:A:ASP:HB2	13	0.47
(1,3139)	1:101:A:ILE:H	1:97:A:ASP:HB3	13	0.47
(1,3053)	1:55:A:ALA:HB2	1:40:A:GLN:HA	7	0.47
(1,3053)	1:55:A:ALA:HB3	1:40:A:GLN:HA	10	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3053)	1:55:A:ALA:HB2	1:40:A:GLN:HA	13	0.47
(1,3053)	1:55:A:ALA:HB1	1:40:A:GLN:HA	18	0.47
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD2	7	0.47
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD3	7	0.47
(1,3016)	1:157:A:VAL:HG22	1:156:A:LEU:HA	8	0.47
(1,3016)	1:157:A:VAL:HG22	1:156:A:LEU:HA	14	0.47
(1,3014)	1:175:A:ILE:HG21	1:156:A:LEU:HA	1	0.47
(1,3014)	1:175:A:ILE:HG22	1:156:A:LEU:HA	4	0.47
(1,3014)	1:175:A:ILE:HG21	1:156:A:LEU:HA	16	0.47
(1,2975)	1:65:A:LEU:HD22	1:82:A:SER:HA	5	0.47
(1,2970)	1:68:A:PRO:HG2	1:70:A:SER:HB2	11	0.47
(1,2970)	1:68:A:PRO:HG2	1:70:A:SER:HB3	11	0.47
(1,2908)	1:137:A:ILE:HD11	1:199:A:TYR:H	2	0.47
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	6	0.47
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD11	12	0.47
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD12	12	0.47
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD13	12	0.47
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD21	12	0.47
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD22	12	0.47
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD23	12	0.47
(1,2699)	1:8:A:VAL:HG21	1:85:A:LEU:HG	1	0.47
(1,2636)	1:65:A:LEU:HD13	1:66:A:ASN:HB2	17	0.47
(1,2636)	1:65:A:LEU:HD13	1:66:A:ASN:HB3	17	0.47
(1,2573)	1:187:A:ALA:HB3	1:186:A:SER:HB2	5	0.47
(1,2573)	1:187:A:ALA:HB3	1:186:A:SER:HB3	5	0.47
(1,2573)	1:187:A:ALA:HB2	1:186:A:SER:HB2	18	0.47
(1,2573)	1:187:A:ALA:HB2	1:186:A:SER:HB3	18	0.47
(1,2502)	1:42:A:LEU:HG	1:27:A:SER:HA	1	0.47
(1,2462)	1:197:A:ARG:HD2	1:196:A:TYR:HE1	9	0.47
(1,2462)	1:197:A:ARG:HD2	1:196:A:TYR:HE2	9	0.47
(1,2426)	1:101:A:ILE:HG22	1:103:A:GLU:H	11	0.47
(1,2418)	1:200:A:LEU:HD21	1:199:A:TYR:H	5	0.47
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	1	0.47
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	1	0.47
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	10	0.47
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	10	0.47
(1,5848)	1:113:A:GLU:HB3	1:114:A:LEU:HG	5	0.46
(1,5803)	1:18:A:THR:HG21	1:16:A:GLU:HB2	1	0.46
(1,5803)	1:18:A:THR:HG21	1:16:A:GLU:HB3	1	0.46
(1,5801)	1:146:A:LYS:HE2	1:182:A:PRO:HG2	6	0.46
(1,5801)	1:146:A:LYS:HE2	1:182:A:PRO:HG3	6	0.46
(1,5679)	1:139:A:LYS:HB2	1:138:A:ASN:HD21	19	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5679)	1:139:A:LYS:HB2	1:138:A:ASN:HD22	19	0.46
(1,5679)	1:139:A:LYS:HB3	1:138:A:ASN:HD21	19	0.46
(1,5679)	1:139:A:LYS:HB3	1:138:A:ASN:HD22	19	0.46
(1,5642)	1:187:A:ALA:HB3	1:191:A:ASN:HD21	20	0.46
(1,5642)	1:187:A:ALA:HB3	1:191:A:ASN:HD22	20	0.46
(1,5556)	1:197:A:ARG:HB3	1:201:A:TYR:H	15	0.46
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB2	5	0.46
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB3	5	0.46
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG12	19	0.46
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG13	19	0.46
(1,5396)	1:124:A:GLN:H	1:98:A:ILE:HG12	19	0.46
(1,5396)	1:124:A:GLN:H	1:98:A:ILE:HG13	19	0.46
(1,5394)	1:59:A:ILE:H	1:56:A:ARG:H	6	0.46
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	2	0.46
(1,5233)	1:1:A:ASN:HD22	1:61:A:GLU:HG2	13	0.46
(1,5233)	1:1:A:ASN:HD22	1:61:A:GLU:HG3	13	0.46
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	19	0.46
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	19	0.46
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	1	0.46
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	16	0.46
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB2	3	0.46
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB3	3	0.46
(1,4996)	1:75:A:LYS:H	1:76:A:PRO:HG2	8	0.46
(1,4996)	1:75:A:LYS:H	1:76:A:PRO:HG3	8	0.46
(1,3442)	1:59:A:ILE:HG21	1:61:A:GLU:HG2	19	0.46
(1,3442)	1:59:A:ILE:HG21	1:61:A:GLU:HG3	19	0.46
(1,3442)	1:59:A:ILE:HG22	1:61:A:GLU:HG2	19	0.46
(1,3442)	1:59:A:ILE:HG22	1:61:A:GLU:HG3	19	0.46
(1,3442)	1:59:A:ILE:HG23	1:61:A:GLU:HG2	19	0.46
(1,3442)	1:59:A:ILE:HG23	1:61:A:GLU:HG3	19	0.46
(1,3287)	1:53:A:SER:HB2	1:37:A:LYS:HD2	15	0.46
(1,3287)	1:53:A:SER:HB2	1:37:A:LYS:HD3	15	0.46
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD11	8	0.46
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD12	8	0.46
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD13	8	0.46
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD21	8	0.46
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD22	8	0.46
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD23	8	0.46
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG2	5	0.46
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG3	5	0.46
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG2	8	0.46
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG3	8	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	10	0.46
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	10	0.46
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	10	0.46
(1,3012)	1:160:A:GLN:HG2	1:156:A:LEU:HA	18	0.46
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB2	9	0.46
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB3	9	0.46
(1,2826)	1:59:A:ILE:HB	1:9:A:VAL:HB	11	0.46
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD11	7	0.46
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD12	7	0.46
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD13	7	0.46
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD21	7	0.46
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD22	7	0.46
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD23	7	0.46
(1,2745)	1:137:A:ILE:HD12	1:126:A:LEU:HB2	8	0.46
(1,2745)	1:137:A:ILE:HD12	1:126:A:LEU:HB3	8	0.46
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG11	3	0.46
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG12	3	0.46
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG13	3	0.46
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG21	3	0.46
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG22	3	0.46
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG23	3	0.46
(1,2717)	1:130:A:MET:HE1	1:133:A:ARG:HG2	15	0.46
(1,2717)	1:130:A:MET:HE1	1:133:A:ARG:HG3	15	0.46
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB2	14	0.46
(1,2696)	1:181:A:ILE:HB	1:182:A:PRO:HB3	14	0.46
(1,2643)	1:187:A:ALA:HB3	1:190:A:TYR:HB2	15	0.46
(1,2643)	1:187:A:ALA:HB3	1:190:A:TYR:HB3	15	0.46
(1,2636)	1:65:A:LEU:HD11	1:63:A:ASP:HB2	12	0.46
(1,2636)	1:65:A:LEU:HD11	1:63:A:ASP:HB3	12	0.46
(1,2548)	1:150:A:LEU:HD22	1:141:A:PRO:HA	11	0.46
(1,2532)	1:183:A:ILE:HG21	1:182:A:PRO:HA	12	0.46
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD11	10	0.46
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD12	10	0.46
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD13	10	0.46
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD21	10	0.46
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD22	10	0.46
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD23	10	0.46
(1,2399)	1:96:A:MET:HE1	1:137:A:ILE:H	17	0.46
(1,2389)	1:42:A:LEU:HG	1:36:A:VAL:H	2	0.46
(1,2379)	1:24:A:LEU:HD12	1:46:A:PHE:H	14	0.46
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	16	0.46
(1,2373)	1:26:A:ILE:HD13	1:43:A:VAL:H	9	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,183)	1:145:A:TYR:H	1:145:A:TYR:HE1	20	0.46
(1,183)	1:145:A:TYR:H	1:145:A:TYR:HE2	20	0.46
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD1	11	0.46
(1,173)	1:190:A:TYR:H	1:190:A:TYR:HD2	11	0.46
(1,173)	1:191:A:ASN:HD22	1:190:A:TYR:HD1	16	0.46
(1,173)	1:191:A:ASN:HD22	1:190:A:TYR:HD2	16	0.46
(1,5810)	1:61:A:GLU:HB3	1:59:A:ILE:HG21	20	0.45
(1,5810)	1:61:A:GLU:HB3	1:59:A:ILE:HG22	20	0.45
(1,5810)	1:61:A:GLU:HB3	1:59:A:ILE:HG23	20	0.45
(1,5788)	1:98:A:ILE:HD11	1:105:A:SER:HA	14	0.45
(1,5681)	1:94:A:TRP:HZ3	1:94:A:TRP:H	5	0.45
(1,5681)	1:44:A:ARG:HE	1:50:A:LYS:H	15	0.45
(1,5642)	1:187:A:ALA:HB1	1:191:A:ASN:HD21	13	0.45
(1,5642)	1:187:A:ALA:HB1	1:191:A:ASN:HD22	13	0.45
(1,5559)	1:24:A:LEU:HD22	1:8:A:VAL:H	16	0.45
(1,5428)	1:23:A:ALA:H	1:46:A:PHE:HD1	14	0.45
(1,5428)	1:23:A:ALA:H	1:46:A:PHE:HD2	14	0.45
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG2	8	0.45
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG3	8	0.45
(1,5366)	1:79:A:GLN:HE22	1:82:A:SER:HB2	4	0.45
(1,5366)	1:79:A:GLN:HE22	1:82:A:SER:HB3	4	0.45
(1,5318)	1:36:A:VAL:H	1:37:A:LYS:HG2	12	0.45
(1,5318)	1:36:A:VAL:H	1:37:A:LYS:HG3	12	0.45
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	5	0.45
(1,5273)	1:135:A:THR:H	1:136:A:PRO:HB2	5	0.45
(1,5273)	1:135:A:THR:H	1:136:A:PRO:HB3	5	0.45
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	7	0.45
(1,4975)	1:75:A:LYS:H	1:74:A:THR:HB	14	0.45
(1,4970)	1:64:A:ILE:H	1:65:A:LEU:HA	18	0.45
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG2	10	0.45
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG3	10	0.45
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG2	10	0.45
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG3	10	0.45
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG2	10	0.45
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG3	10	0.45
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG2	10	0.45
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG3	10	0.45
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG2	10	0.45
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG3	10	0.45
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG2	10	0.45
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG3	10	0.45
(1,3431)	1:83:A:ILE:HG21	1:87:A:THR:HG21	13	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3431)	1:83:A:ILE:HG21	1:87:A:THR:HG22	13	0.45
(1,3431)	1:83:A:ILE:HG21	1:87:A:THR:HG23	13	0.45
(1,3379)	1:75:A:LYS:HG2	1:19:A:GLU:HG2	4	0.45
(1,3379)	1:75:A:LYS:HG2	1:19:A:GLU:HG3	4	0.45
(1,3200)	1:184:A:LEU:HA	1:183:A:ILE:HG12	19	0.45
(1,3200)	1:184:A:LEU:HA	1:183:A:ILE:HG13	19	0.45
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG2	9	0.45
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG3	9	0.45
(1,3053)	1:55:A:ALA:HB1	1:40:A:GLN:HA	11	0.45
(1,3051)	1:34:A:ILE:HG22	1:53:A:SER:HA	15	0.45
(1,3012)	1:160:A:GLN:HG3	1:156:A:LEU:HA	19	0.45
(1,2975)	1:65:A:LEU:HD22	1:82:A:SER:HA	17	0.45
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB2	18	0.45
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB3	18	0.45
(1,2826)	1:59:A:ILE:HB	1:9:A:VAL:HB	12	0.45
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG11	1	0.45
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG12	1	0.45
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG13	1	0.45
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG21	1	0.45
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG22	1	0.45
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG23	1	0.45
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD11	6	0.45
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD12	6	0.45
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD13	6	0.45
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD21	6	0.45
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD22	6	0.45
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD23	6	0.45
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD11	4	0.45
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD12	4	0.45
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD13	4	0.45
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD21	4	0.45
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD22	4	0.45
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD23	4	0.45
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD11	6	0.45
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD12	6	0.45
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD13	6	0.45
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD21	6	0.45
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD22	6	0.45
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD23	6	0.45
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD11	10	0.45
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD12	10	0.45
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD13	10	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD21	10	0.45
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD22	10	0.45
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD23	10	0.45
(1,2699)	1:8:A:VAL:HG12	1:85:A:LEU:HB2	11	0.45
(1,2699)	1:8:A:VAL:HG12	1:85:A:LEU:HB3	11	0.45
(1,2699)	1:8:A:VAL:HG22	1:85:A:LEU:HG	20	0.45
(1,2682)	1:62:A:VAL:HB	1:9:A:VAL:HB	14	0.45
(1,2671)	1:18:A:THR:HG22	1:16:A:GLU:HG2	17	0.45
(1,2671)	1:18:A:THR:HG22	1:16:A:GLU:HG3	17	0.45
(1,2660)	1:65:A:LEU:HD13	1:63:A:ASP:HB2	17	0.45
(1,2660)	1:65:A:LEU:HD13	1:63:A:ASP:HB3	17	0.45
(1,2571)	1:130:A:MET:HE3	1:136:A:PRO:HA	2	0.45
(1,2532)	1:183:A:ILE:HG21	1:184:A:LEU:HA	2	0.45
(1,2532)	1:183:A:ILE:HG21	1:182:A:PRO:HA	13	0.45
(1,2531)	1:142:A:VAL:HG21	1:143:A:LEU:HA	8	0.45
(1,2529)	1:5:A:LEU:HD11	1:2:A:ASP:HA	2	0.45
(1,2481)	1:187:A:ALA:HB2	1:191:A:ASN:HD21	9	0.45
(1,2481)	1:187:A:ALA:HB2	1:191:A:ASN:HD22	9	0.45
(1,2479)	1:194:A:THR:HG21	1:190:A:TYR:HD1	3	0.45
(1,2479)	1:194:A:THR:HG21	1:190:A:TYR:HD2	3	0.45
(1,2429)	1:181:A:ILE:HD11	1:180:A:GLY:H	12	0.45
(1,2403)	1:3:A:GLU:HB2	1:4:A:LEU:H	18	0.45
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB2	10	0.45
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB3	10	0.45
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG21	3	0.45
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG22	3	0.45
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG23	3	0.45
(1,160)	1:145:A:TYR:HE1	1:184:A:LEU:HB2	14	0.45
(1,160)	1:145:A:TYR:HE1	1:184:A:LEU:HB3	14	0.45
(1,5861)	1:116:A:PRO:HG2	1:117:A:GLU:H	20	0.44
(1,5803)	1:18:A:THR:HG23	1:16:A:GLU:HB2	19	0.44
(1,5803)	1:18:A:THR:HG23	1:16:A:GLU:HB3	19	0.44
(1,5678)	1:137:A:ILE:HD11	1:130:A:MET:H	19	0.44
(1,5642)	1:187:A:ALA:HB1	1:191:A:ASN:HD21	5	0.44
(1,5642)	1:187:A:ALA:HB1	1:191:A:ASN:HD22	5	0.44
(1,5642)	1:187:A:ALA:HB2	1:191:A:ASN:HD21	7	0.44
(1,5642)	1:187:A:ALA:HB2	1:191:A:ASN:HD22	7	0.44
(1,5642)	1:143:A:LEU:HG	1:191:A:ASN:HD21	11	0.44
(1,5642)	1:143:A:LEU:HG	1:191:A:ASN:HD22	11	0.44
(1,5557)	1:124:A:GLN:HB3	1:95:A:LYS:H	8	0.44
(1,5475)	1:197:A:ARG:H	1:193:A:LYS:HE2	3	0.44
(1,5475)	1:197:A:ARG:H	1:193:A:LYS:HE3	3	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	4	0.44
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	4	0.44
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	4	0.44
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	4	0.44
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	4	0.44
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	4	0.44
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	12	0.44
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	12	0.44
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	12	0.44
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	12	0.44
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	12	0.44
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	12	0.44
(1,5273)	1:135:A:THR:H	1:136:A:PRO:HB2	15	0.44
(1,5273)	1:135:A:THR:H	1:136:A:PRO:HB3	15	0.44
(1,5266)	1:211:A:ASN:HD21	1:210:A:ALA:HB1	17	0.44
(1,5266)	1:211:A:ASN:HD21	1:210:A:ALA:HB2	17	0.44
(1,5266)	1:211:A:ASN:HD21	1:210:A:ALA:HB3	17	0.44
(1,5233)	1:1:A:ASN:HD21	1:61:A:GLU:HG2	6	0.44
(1,5233)	1:1:A:ASN:HD21	1:61:A:GLU:HG3	6	0.44
(1,5128)	1:197:A:ARG:H	1:198:A:LYS:HD2	13	0.44
(1,5128)	1:197:A:ARG:H	1:198:A:LYS:HD3	13	0.44
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	9	0.44
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	12	0.44
(1,5053)	1:78:A:LEU:H	1:80:A:LYS:HG2	4	0.44
(1,5053)	1:78:A:LEU:H	1:80:A:LYS:HG3	4	0.44
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB2	4	0.44
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB3	4	0.44
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD1	1	0.44
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD2	1	0.44
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG2	2	0.44
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG3	2	0.44
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG2	2	0.44
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG3	2	0.44
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG2	2	0.44
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG3	2	0.44
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG2	2	0.44
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG3	2	0.44
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG2	2	0.44
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG3	2	0.44
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG2	2	0.44
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG3	2	0.44
(1,3442)	1:59:A:ILE:HG21	1:61:A:GLU:HG2	6	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3442)	1:59:A:ILE:HG21	1:61:A:GLU:HG3	6	0.44
(1,3442)	1:59:A:ILE:HG22	1:61:A:GLU:HG2	6	0.44
(1,3442)	1:59:A:ILE:HG22	1:61:A:GLU:HG3	6	0.44
(1,3442)	1:59:A:ILE:HG23	1:61:A:GLU:HG2	6	0.44
(1,3442)	1:59:A:ILE:HG23	1:61:A:GLU:HG3	6	0.44
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	8	0.44
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	8	0.44
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	8	0.44
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD11	11	0.44
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD12	11	0.44
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD13	11	0.44
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD21	11	0.44
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD22	11	0.44
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD23	11	0.44
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	6	0.44
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	6	0.44
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG2	2	0.44
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG3	2	0.44
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG2	7	0.44
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG3	7	0.44
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG2	10	0.44
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG3	10	0.44
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG2	12	0.44
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG3	12	0.44
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG2	14	0.44
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG3	14	0.44
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG2	16	0.44
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG3	16	0.44
(1,3014)	1:175:A:ILE:HG23	1:156:A:LEU:HA	2	0.44
(1,3012)	1:160:A:GLN:HG2	1:156:A:LEU:HA	2	0.44
(1,3012)	1:160:A:GLN:HG2	1:156:A:LEU:HA	12	0.44
(1,2908)	1:137:A:ILE:HD11	1:130:A:MET:H	19	0.44
(1,2903)	1:11:A:VAL:HG11	1:54:A:ILE:HB	15	0.44
(1,2873)	1:10:A:SER:HA	1:9:A:VAL:HG11	16	0.44
(1,2873)	1:10:A:SER:HA	1:9:A:VAL:HG12	16	0.44
(1,2873)	1:10:A:SER:HA	1:9:A:VAL:HG13	16	0.44
(1,2873)	1:10:A:SER:HA	1:9:A:VAL:HG21	16	0.44
(1,2873)	1:10:A:SER:HA	1:9:A:VAL:HG22	16	0.44
(1,2873)	1:10:A:SER:HA	1:9:A:VAL:HG23	16	0.44
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD11	6	0.44
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD12	6	0.44
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD13	6	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2842)	1:181:A:ILE:HD13	1:176:A:TYR:HB2	17	0.44
(1,2842)	1:181:A:ILE:HD13	1:176:A:TYR:HB3	17	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD11	1	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD12	1	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD13	1	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD21	1	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD22	1	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD23	1	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD11	17	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD12	17	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD13	17	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD21	17	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD22	17	0.44
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD23	17	0.44
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD11	3	0.44
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD12	3	0.44
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD13	3	0.44
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD21	3	0.44
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD22	3	0.44
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD23	3	0.44
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD11	11	0.44
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD12	11	0.44
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD13	11	0.44
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD21	11	0.44
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD22	11	0.44
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD23	11	0.44
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD11	14	0.44
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD12	14	0.44
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD13	14	0.44
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD21	14	0.44
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD22	14	0.44
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD23	14	0.44
(1,2745)	1:137:A:ILE:HD11	1:126:A:LEU:HB2	5	0.44
(1,2745)	1:137:A:ILE:HD11	1:126:A:LEU:HB3	5	0.44
(1,2708)	1:137:A:ILE:HD12	1:140:A:PRO:HB2	6	0.44
(1,2708)	1:137:A:ILE:HD12	1:140:A:PRO:HB3	6	0.44
(1,2699)	1:8:A:VAL:HG22	1:85:A:LEU:HG	2	0.44
(1,2699)	1:8:A:VAL:HG22	1:85:A:LEU:HG	5	0.44
(1,2699)	1:8:A:VAL:HG13	1:85:A:LEU:HB2	12	0.44
(1,2699)	1:8:A:VAL:HG13	1:85:A:LEU:HB3	12	0.44
(1,2660)	1:65:A:LEU:HD13	1:63:A:ASP:HB2	14	0.44
(1,2660)	1:65:A:LEU:HD13	1:63:A:ASP:HB3	14	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2578)	1:64:A:ILE:HD13	1:62:A:VAL:HA	14	0.44
(1,2571)	1:130:A:MET:HE2	1:136:A:PRO:HA	3	0.44
(1,2571)	1:130:A:MET:HE1	1:198:A:LYS:HA	4	0.44
(1,2571)	1:130:A:MET:HE3	1:198:A:LYS:HA	14	0.44
(1,2548)	1:150:A:LEU:HD22	1:141:A:PRO:HA	18	0.44
(1,2539)	1:54:A:ILE:HD13	1:14:A:ALA:HA	19	0.44
(1,2375)	1:60:A:LYS:HD2	1:61:A:GLU:H	9	0.44
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	17	0.44
(1,172)	1:122:A:PHE:HE2	1:126:A:LEU:HG	18	0.44
(1,113)	1:176:A:TYR:HD1	1:182:A:PRO:HA	13	0.44
(1,5804)	1:167:A:ASP:HB2	1:168:A:SER:HB2	1	0.43
(1,5804)	1:167:A:ASP:HB2	1:168:A:SER:HB3	1	0.43
(1,5795)	1:167:A:ASP:HB2	1:168:A:SER:HB2	1	0.43
(1,5795)	1:167:A:ASP:HB2	1:168:A:SER:HB3	1	0.43
(1,5681)	1:94:A:TRP:HZ3	1:94:A:TRP:H	3	0.43
(1,5665)	1:200:A:LEU:HB3	1:205:A:GLU:H	19	0.43
(1,5602)	1:34:A:ILE:HG23	1:53:A:SER:H	12	0.43
(1,5578)	1:38:A:LYS:HA	1:40:A:GLN:H	20	0.43
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB2	1	0.43
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB3	1	0.43
(1,5331)	1:75:A:LYS:H	1:71:A:GLU:HG2	20	0.43
(1,5331)	1:75:A:LYS:H	1:71:A:GLU:HG3	20	0.43
(1,5313)	1:20:A:TRP:HE1	1:71:A:GLU:HG2	13	0.43
(1,5313)	1:20:A:TRP:HE1	1:71:A:GLU:HG3	13	0.43
(1,5273)	1:135:A:THR:H	1:136:A:PRO:HB2	12	0.43
(1,5273)	1:135:A:THR:H	1:136:A:PRO:HB3	12	0.43
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	10	0.43
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	10	0.43
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	10	0.43
(1,5128)	1:197:A:ARG:H	1:200:A:LEU:HG	12	0.43
(1,5081)	1:88:A:ARG:H	1:89:A:VAL:HA	3	0.43
(1,5054)	1:78:A:LEU:H	1:75:A:LYS:HG2	18	0.43
(1,5054)	1:78:A:LEU:H	1:75:A:LYS:HG3	18	0.43
(1,4996)	1:75:A:LYS:H	1:76:A:PRO:HG2	1	0.43
(1,4996)	1:75:A:LYS:H	1:76:A:PRO:HG3	1	0.43
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB2	6	0.43
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB3	6	0.43
(1,4996)	1:75:A:LYS:H	1:76:A:PRO:HG2	10	0.43
(1,4996)	1:75:A:LYS:H	1:76:A:PRO:HG3	10	0.43
(1,4975)	1:75:A:LYS:H	1:74:A:THR:HB	11	0.43
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	13	0.43
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	13	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	13	0.43
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG2	5	0.43
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG3	5	0.43
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG2	5	0.43
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG3	5	0.43
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG2	5	0.43
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG3	5	0.43
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG2	5	0.43
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG3	5	0.43
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG2	5	0.43
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG3	5	0.43
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG2	5	0.43
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG3	5	0.43
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG2	6	0.43
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG3	6	0.43
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG2	6	0.43
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG3	6	0.43
(1,3340)	1:19:A:GLU:HB2	1:75:A:LYS:HG2	16	0.43
(1,3340)	1:19:A:GLU:HB2	1:75:A:LYS:HG3	16	0.43
(1,3340)	1:19:A:GLU:HB3	1:75:A:LYS:HG2	16	0.43
(1,3340)	1:19:A:GLU:HB3	1:75:A:LYS:HG3	16	0.43
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB2	14	0.43
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB3	14	0.43
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB2	14	0.43
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB3	14	0.43
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	3	0.43
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	3	0.43
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG2	1	0.43
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG3	1	0.43
(1,3053)	1:55:A:ALA:HB1	1:40:A:GLN:HA	8	0.43
(1,3048)	1:34:A:ILE:HB	1:51:A:PHE:HA	10	0.43
(1,3037)	1:146:A:LYS:HG2	1:182:A:PRO:HD2	16	0.43
(1,3037)	1:146:A:LYS:HG2	1:182:A:PRO:HD3	16	0.43
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD2	17	0.43
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD3	17	0.43
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	10	0.43
(1,2835)	1:126:A:LEU:HD12	1:130:A:MET:H	8	0.43
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG21	9	0.43
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG22	9	0.43
(1,2783)	1:61:A:GLU:HG3	1:59:A:ILE:HG23	9	0.43
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD11	1	0.43
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD12	1	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD13	1	0.43
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD21	1	0.43
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD22	1	0.43
(1,2744)	1:195:A:ALA:HB2	1:153:A:LEU:HD23	1	0.43
(1,2660)	1:65:A:LEU:HD13	1:63:A:ASP:HB2	3	0.43
(1,2660)	1:65:A:LEU:HD13	1:63:A:ASP:HB3	3	0.43
(1,2577)	1:166:A:ILE:HD11	1:160:A:GLN:HA	9	0.43
(1,2577)	1:166:A:ILE:HD13	1:160:A:GLN:HA	20	0.43
(1,2575)	1:64:A:ILE:HG22	1:78:A:LEU:HA	8	0.43
(1,2571)	1:130:A:MET:HE3	1:198:A:LYS:HA	16	0.43
(1,2539)	1:54:A:ILE:HD12	1:11:A:VAL:HA	18	0.43
(1,2479)	1:194:A:THR:HG21	1:190:A:TYR:HD1	7	0.43
(1,2479)	1:194:A:THR:HG21	1:190:A:TYR:HD2	7	0.43
(1,2422)	1:126:A:LEU:HD12	1:130:A:MET:H	8	0.43
(1,2379)	1:24:A:LEU:HD23	1:44:A:ARG:H	15	0.43
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB2	18	0.43
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB3	18	0.43
(1,2256)	1:89:A:VAL:HA	1:88:A:ARG:H	3	0.43
(1,5861)	1:116:A:PRO:HG3	1:117:A:GLU:H	7	0.42
(1,5850)	1:113:A:GLU:HG2	1:114:A:LEU:H	13	0.42
(1,5788)	1:98:A:ILE:HD12	1:105:A:SER:HA	15	0.42
(1,5625)	1:146:A:LYS:HG2	1:145:A:TYR:H	5	0.42
(1,5578)	1:153:A:LEU:HA	1:157:A:VAL:H	14	0.42
(1,5558)	1:12:A:VAL:HG11	1:17:A:ARG:H	15	0.42
(1,5554)	1:128:A:LYS:HB2	1:129:A:PHE:H	16	0.42
(1,5554)	1:128:A:LYS:HB2	1:129:A:PHE:H	19	0.42
(1,5534)	1:78:A:LEU:HB3	1:81:A:ALA:H	12	0.42
(1,5475)	1:197:A:ARG:H	1:193:A:LYS:HE2	18	0.42
(1,5475)	1:197:A:ARG:H	1:193:A:LYS:HE3	18	0.42
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	9	0.42
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	9	0.42
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	9	0.42
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	9	0.42
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	9	0.42
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	9	0.42
(1,5417)	1:10:A:SER:H	1:3:A:GLU:HB2	7	0.42
(1,5417)	1:10:A:SER:H	1:3:A:GLU:HB3	7	0.42
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB2	8	0.42
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB3	8	0.42
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	12	0.42
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	13	0.42
(1,4996)	1:75:A:LYS:H	1:76:A:PRO:HG2	2	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4996)	1:75:A:LYS:H	1:76:A:PRO:HG3	2	0.42
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB2	15	0.42
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB3	15	0.42
(1,4985)	1:19:A:GLU:H	1:16:A:GLU:HG2	2	0.42
(1,4985)	1:19:A:GLU:H	1:16:A:GLU:HG3	2	0.42
(1,4975)	1:75:A:LYS:H	1:74:A:THR:HB	1	0.42
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	16	0.42
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	16	0.42
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	16	0.42
(1,4908)	1:20:A:TRP:HE1	1:75:A:LYS:HD2	15	0.42
(1,4908)	1:20:A:TRP:HE1	1:75:A:LYS:HD3	15	0.42
(1,3448)	1:101:A:ILE:HG13	1:96:A:MET:HG2	20	0.42
(1,3448)	1:101:A:ILE:HG13	1:96:A:MET:HG3	20	0.42
(1,3433)	1:12:A:VAL:HG23	1:17:A:ARG:HD2	11	0.42
(1,3433)	1:12:A:VAL:HG23	1:17:A:ARG:HD3	11	0.42
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	19	0.42
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	19	0.42
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	19	0.42
(1,3317)	1:39:A:ASP:HB2	1:38:A:LYS:HG2	4	0.42
(1,3317)	1:39:A:ASP:HB2	1:38:A:LYS:HG3	4	0.42
(1,3091)	1:87:A:THR:H	1:88:A:ARG:HD2	13	0.42
(1,3091)	1:87:A:THR:H	1:88:A:ARG:HD3	13	0.42
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	14	0.42
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	14	0.42
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	14	0.42
(1,3051)	1:34:A:ILE:HG23	1:53:A:SER:HA	13	0.42
(1,3048)	1:34:A:ILE:HB	1:51:A:PHE:HA	20	0.42
(1,3037)	1:146:A:LYS:HG2	1:182:A:PRO:HD2	1	0.42
(1,3037)	1:146:A:LYS:HG2	1:182:A:PRO:HD3	1	0.42
(1,3012)	1:160:A:GLN:HG2	1:156:A:LEU:HA	3	0.42
(1,3012)	1:160:A:GLN:HG2	1:156:A:LEU:HA	13	0.42
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD11	13	0.42
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD12	13	0.42
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD13	13	0.42
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	1	0.42
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	20	0.42
(1,2848)	1:11:A:VAL:HG21	1:44:A:ARG:H	3	0.42
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD2	7	0.42
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD3	7	0.42
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD11	2	0.42
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD12	2	0.42
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD13	2	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD21	2	0.42
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD22	2	0.42
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD23	2	0.42
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG21	18	0.42
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG22	18	0.42
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG23	18	0.42
(1,2717)	1:130:A:MET:HE3	1:133:A:ARG:HG2	3	0.42
(1,2717)	1:130:A:MET:HE3	1:133:A:ARG:HG3	3	0.42
(1,2532)	1:183:A:ILE:HG22	1:184:A:LEU:HA	18	0.42
(1,2489)	1:87:A:THR:HG23	1:84:A:PHE:HD1	14	0.42
(1,2489)	1:87:A:THR:HG23	1:84:A:PHE:HD2	14	0.42
(1,2479)	1:194:A:THR:HG21	1:190:A:TYR:HD1	18	0.42
(1,2479)	1:194:A:THR:HG21	1:190:A:TYR:HD2	18	0.42
(1,2471)	1:12:A:VAL:HG22	1:20:A:TRP:HD1	15	0.42
(1,2415)	1:19:A:GLU:H	1:16:A:GLU:HG2	2	0.42
(1,2415)	1:19:A:GLU:H	1:16:A:GLU:HG3	2	0.42
(1,2389)	1:42:A:LEU:HG	1:52:A:TYR:H	4	0.42
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	9	0.42
(1,173)	1:191:A:ASN:HD21	1:190:A:TYR:HD1	12	0.42
(1,173)	1:191:A:ASN:HD21	1:190:A:TYR:HD2	12	0.42
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD21	6	0.42
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD22	6	0.42
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD21	20	0.42
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD22	20	0.42
(1,5803)	1:18:A:THR:HG21	1:16:A:GLU:HB2	5	0.41
(1,5803)	1:18:A:THR:HG21	1:16:A:GLU:HB3	5	0.41
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG12	3	0.41
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG13	3	0.41
(1,5394)	1:59:A:ILE:H	1:56:A:ARG:H	17	0.41
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB2	17	0.41
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB3	17	0.41
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	10	0.41
(1,4975)	1:75:A:LYS:H	1:73:A:SER:HA	10	0.41
(1,4975)	1:75:A:LYS:H	1:73:A:SER:HA	20	0.41
(1,3544)	1:97:A:ASP:HB3	1:99:A:SER:HA	14	0.41
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB2	3	0.41
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB3	3	0.41
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB2	3	0.41
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB3	3	0.41
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG2	13	0.41
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG3	13	0.41
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG2	13	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG3	13	0.41
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG2	13	0.41
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG3	13	0.41
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG2	13	0.41
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG3	13	0.41
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG2	13	0.41
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG3	13	0.41
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG2	13	0.41
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG3	13	0.41
(1,3398)	1:15:A:THR:HG21	1:16:A:GLU:HG2	4	0.41
(1,3398)	1:15:A:THR:HG21	1:16:A:GLU:HG3	4	0.41
(1,3398)	1:15:A:THR:HG22	1:16:A:GLU:HG2	4	0.41
(1,3398)	1:15:A:THR:HG22	1:16:A:GLU:HG3	4	0.41
(1,3398)	1:15:A:THR:HG23	1:16:A:GLU:HG2	4	0.41
(1,3398)	1:15:A:THR:HG23	1:16:A:GLU:HG3	4	0.41
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD11	5	0.41
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD12	5	0.41
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD13	5	0.41
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD21	5	0.41
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD22	5	0.41
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD23	5	0.41
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD11	12	0.41
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD12	12	0.41
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD13	12	0.41
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD21	12	0.41
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD22	12	0.41
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD23	12	0.41
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG2	11	0.41
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG3	11	0.41
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD2	3	0.41
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD3	3	0.41
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD2	10	0.41
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD3	10	0.41
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB2	17	0.41
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB3	17	0.41
(1,2905)	1:126:A:LEU:HD11	1:199:A:TYR:HD1	10	0.41
(1,2905)	1:126:A:LEU:HD11	1:199:A:TYR:HD2	10	0.41
(1,2866)	1:210:A:ALA:HA	1:5:A:LEU:HB2	10	0.41
(1,2866)	1:210:A:ALA:HA	1:5:A:LEU:HB3	10	0.41
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	19	0.41
(1,2848)	1:11:A:VAL:HG23	1:44:A:ARG:H	17	0.41
(1,2843)	1:181:A:ILE:HD13	1:153:A:LEU:HB2	19	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2843)	1:181:A:ILE:HD13	1:153:A:LEU:HB3	19	0.41
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD11	5	0.41
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD12	5	0.41
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD13	5	0.41
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD21	5	0.41
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD22	5	0.41
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD23	5	0.41
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD11	16	0.41
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD12	16	0.41
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD13	16	0.41
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD21	16	0.41
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD22	16	0.41
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD23	16	0.41
(1,2745)	1:137:A:ILE:HD11	1:126:A:LEU:HB2	20	0.41
(1,2745)	1:137:A:ILE:HD11	1:126:A:LEU:HB3	20	0.41
(1,2577)	1:166:A:ILE:HD13	1:160:A:GLN:HA	16	0.41
(1,2549)	1:36:A:VAL:HG13	1:37:A:LYS:HA	17	0.41
(1,2532)	1:183:A:ILE:HG21	1:182:A:PRO:HA	20	0.41
(1,2530)	1:36:A:VAL:HG13	1:37:A:LYS:HA	17	0.41
(1,2481)	1:187:A:ALA:HB2	1:190:A:TYR:HD1	11	0.41
(1,2481)	1:187:A:ALA:HB2	1:190:A:TYR:HD2	11	0.41
(1,2459)	1:90:A:VAL:HG21	1:94:A:TRP:HZ3	3	0.41
(1,2457)	1:90:A:VAL:HG21	1:94:A:TRP:HZ3	3	0.41
(1,2385)	1:34:A:ILE:HB	1:52:A:TYR:H	1	0.41
(1,2383)	1:43:A:VAL:HG23	1:52:A:TYR:H	17	0.41
(1,5803)	1:152:A:LYS:HD2	1:113:A:GLU:HB2	16	0.4
(1,5803)	1:152:A:LYS:HD2	1:113:A:GLU:HB3	16	0.4
(1,5697)	1:124:A:GLN:HB2	1:121:A:ASN:HD21	3	0.4
(1,5697)	1:124:A:GLN:HB2	1:121:A:ASN:HD22	3	0.4
(1,5578)	1:38:A:LYS:HA	1:40:A:GLN:H	13	0.4
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	9	0.4
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	9	0.4
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB2	17	0.4
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB3	17	0.4
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD2	3	0.4
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD3	3	0.4
(1,5366)	1:79:A:GLN:HE22	1:82:A:SER:HB2	3	0.4
(1,5366)	1:79:A:GLN:HE22	1:82:A:SER:HB3	3	0.4
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB2	20	0.4
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB3	20	0.4
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB1	10	0.4
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB2	10	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB3	10	0.4
(1,5314)	1:20:A:TRP:HE1	1:75:A:LYS:HG2	20	0.4
(1,5314)	1:20:A:TRP:HE1	1:75:A:LYS:HG3	20	0.4
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	16	0.4
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	16	0.4
(1,5053)	1:78:A:LEU:H	1:72:A:LEU:HB2	12	0.4
(1,5053)	1:78:A:LEU:H	1:72:A:LEU:HB3	12	0.4
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	12	0.4
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	12	0.4
(1,4996)	1:75:A:LYS:H	1:76:A:PRO:HG2	20	0.4
(1,4996)	1:75:A:LYS:H	1:76:A:PRO:HG3	20	0.4
(1,4985)	1:19:A:GLU:H	1:19:A:GLU:HG2	18	0.4
(1,4985)	1:19:A:GLU:H	1:19:A:GLU:HG3	18	0.4
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	11	0.4
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	11	0.4
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	11	0.4
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	15	0.4
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	15	0.4
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	15	0.4
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD11	19	0.4
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD12	19	0.4
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD13	19	0.4
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD21	19	0.4
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD22	19	0.4
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD23	19	0.4
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB2	11	0.4
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB3	11	0.4
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB2	11	0.4
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB3	11	0.4
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	5	0.4
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	5	0.4
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	9	0.4
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	9	0.4
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	9	0.4
(1,3048)	1:34:A:ILE:HB	1:51:A:PHE:HA	14	0.4
(1,3048)	1:34:A:ILE:HB	1:51:A:PHE:HA	15	0.4
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	14	0.4
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	15	0.4
(1,2841)	1:166:A:ILE:HD12	1:157:A:VAL:H	14	0.4
(1,2835)	1:126:A:LEU:HD22	1:130:A:MET:H	18	0.4
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD11	9	0.4
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD12	9	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD13	9	0.4
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD21	9	0.4
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD22	9	0.4
(1,2759)	1:71:A:GLU:HB3	1:78:A:LEU:HD23	9	0.4
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD11	18	0.4
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD12	18	0.4
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD13	18	0.4
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD21	18	0.4
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD22	18	0.4
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD23	18	0.4
(1,2745)	1:137:A:ILE:HD12	1:126:A:LEU:HB2	14	0.4
(1,2745)	1:137:A:ILE:HD12	1:126:A:LEU:HB3	14	0.4
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG2	9	0.4
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG3	9	0.4
(1,2665)	1:47:A:ILE:HD11	1:76:A:PRO:HB2	9	0.4
(1,2665)	1:47:A:ILE:HD11	1:76:A:PRO:HB3	9	0.4
(1,2643)	1:187:A:ALA:HB3	1:190:A:TYR:HB2	8	0.4
(1,2643)	1:187:A:ALA:HB3	1:190:A:TYR:HB3	8	0.4
(1,2632)	1:198:A:LYS:HD2	1:199:A:TYR:HB2	10	0.4
(1,2632)	1:198:A:LYS:HD2	1:199:A:TYR:HB3	10	0.4
(1,2578)	1:64:A:ILE:HD11	1:62:A:VAL:HA	6	0.4
(1,2564)	1:157:A:VAL:HG12	1:153:A:LEU:HA	19	0.4
(1,2549)	1:36:A:VAL:HG12	1:37:A:LYS:HA	2	0.4
(1,2549)	1:36:A:VAL:HG13	1:37:A:LYS:HA	9	0.4
(1,2549)	1:36:A:VAL:HG13	1:37:A:LYS:HA	10	0.4
(1,2536)	1:181:A:ILE:HD13	1:179:A:LEU:HA	15	0.4
(1,2534)	1:101:A:ILE:HG22	1:105:A:SER:HA	11	0.4
(1,2532)	1:183:A:ILE:HG21	1:182:A:PRO:HA	1	0.4
(1,2530)	1:36:A:VAL:HG12	1:37:A:LYS:HA	2	0.4
(1,2530)	1:36:A:VAL:HG13	1:37:A:LYS:HA	9	0.4
(1,2530)	1:36:A:VAL:HG13	1:37:A:LYS:HA	10	0.4
(1,2502)	1:42:A:LEU:HG	1:27:A:SER:HA	3	0.4
(1,2474)	1:101:A:ILE:HD13	1:127:A:TYR:HD1	18	0.4
(1,2474)	1:101:A:ILE:HD13	1:127:A:TYR:HD2	18	0.4
(1,2466)	1:60:A:LYS:HD2	1:17:A:ARG:HE	16	0.4
(1,2442)	1:101:A:ILE:HD11	1:100:A:GLU:H	1	0.4
(1,2442)	1:101:A:ILE:HD12	1:100:A:GLU:H	9	0.4
(1,2442)	1:101:A:ILE:HD11	1:100:A:GLU:H	17	0.4
(1,2422)	1:126:A:LEU:HD22	1:130:A:MET:H	18	0.4
(1,2415)	1:19:A:GLU:H	1:19:A:GLU:HG2	18	0.4
(1,2415)	1:19:A:GLU:H	1:19:A:GLU:HG3	18	0.4
(1,2389)	1:42:A:LEU:HG	1:52:A:TYR:H	1	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2375)	1:60:A:LYS:HD2	1:61:A:GLU:H	18	0.4
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD21	4	0.4
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD22	4	0.4
(1,128)	1:51:A:PHE:HD2	1:133:A:ARG:HB2	14	0.4
(1,128)	1:51:A:PHE:HD2	1:133:A:ARG:HB3	14	0.4
(1,113)	1:176:A:TYR:HD1	1:182:A:PRO:HA	4	0.4
(1,5791)	1:102:A:LEU:HB3	1:105:A:SER:HB2	3	0.39
(1,5791)	1:102:A:LEU:HB3	1:105:A:SER:HB3	3	0.39
(1,5790)	1:102:A:LEU:HB3	1:105:A:SER:HB2	3	0.39
(1,5790)	1:102:A:LEU:HB3	1:105:A:SER:HB3	3	0.39
(1,5786)	1:115:A:ASP:HA	1:117:A:GLU:H	10	0.39
(1,5697)	1:139:A:LYS:HD3	1:138:A:ASN:HD21	9	0.39
(1,5697)	1:139:A:LYS:HD3	1:138:A:ASN:HD22	9	0.39
(1,5642)	1:187:A:ALA:HB2	1:191:A:ASN:HD21	3	0.39
(1,5642)	1:187:A:ALA:HB2	1:191:A:ASN:HD22	3	0.39
(1,5642)	1:187:A:ALA:HB3	1:191:A:ASN:HD21	14	0.39
(1,5642)	1:187:A:ALA:HB3	1:191:A:ASN:HD22	14	0.39
(1,5602)	1:34:A:ILE:HG23	1:53:A:SER:H	2	0.39
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	3	0.39
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	3	0.39
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	3	0.39
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	3	0.39
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	3	0.39
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	3	0.39
(1,5416)	1:10:A:SER:H	1:61:A:GLU:HB2	14	0.39
(1,5416)	1:10:A:SER:H	1:61:A:GLU:HB3	14	0.39
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	10	0.39
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD21	2	0.39
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD22	2	0.39
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	12	0.39
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	12	0.39
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	20	0.39
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	20	0.39
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	20	0.39
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	11	0.39
(1,4985)	1:19:A:GLU:H	1:16:A:GLU:HG2	1	0.39
(1,4985)	1:19:A:GLU:H	1:16:A:GLU:HG3	1	0.39
(1,4975)	1:75:A:LYS:H	1:74:A:THR:HB	7	0.39
(1,3544)	1:97:A:ASP:HB3	1:99:A:SER:HA	5	0.39
(1,3273)	1:151:A:PHE:HA	1:119:A:ARG:HB2	10	0.39
(1,3273)	1:151:A:PHE:HA	1:119:A:ARG:HB3	10	0.39
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB2	1	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB3	1	0.39
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB2	1	0.39
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB3	1	0.39
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB2	19	0.39
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB3	19	0.39
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB2	19	0.39
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB3	19	0.39
(1,3091)	1:87:A:THR:H	1:88:A:ARG:HD2	12	0.39
(1,3091)	1:87:A:THR:H	1:88:A:ARG:HD3	12	0.39
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	13	0.39
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	13	0.39
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	13	0.39
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD2	12	0.39
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD3	12	0.39
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD2	18	0.39
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD3	18	0.39
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB2	2	0.39
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB3	2	0.39
(1,2917)	1:196:A:TYR:HA	1:201:A:TYR:H	1	0.39
(1,2917)	1:196:A:TYR:HA	1:195:A:ALA:H	17	0.39
(1,2872)	1:100:A:GLU:HB3	1:101:A:ILE:HD11	4	0.39
(1,2872)	1:100:A:GLU:HB3	1:101:A:ILE:HD12	4	0.39
(1,2872)	1:100:A:GLU:HB3	1:101:A:ILE:HD13	4	0.39
(1,2841)	1:166:A:ILE:HD12	1:157:A:VAL:H	2	0.39
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD11	1	0.39
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD12	1	0.39
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD13	1	0.39
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD21	1	0.39
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD22	1	0.39
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD23	1	0.39
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD11	5	0.39
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD12	5	0.39
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD13	5	0.39
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD21	5	0.39
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD22	5	0.39
(1,2770)	1:101:A:ILE:HD12	1:123:A:LEU:HD23	5	0.39
(1,2745)	1:137:A:ILE:HD13	1:126:A:LEU:HB2	11	0.39
(1,2745)	1:137:A:ILE:HD13	1:126:A:LEU:HB3	11	0.39
(1,2701)	1:90:A:VAL:HG12	1:85:A:LEU:HB2	14	0.39
(1,2701)	1:90:A:VAL:HG12	1:85:A:LEU:HB3	14	0.39
(1,2700)	1:90:A:VAL:HG12	1:85:A:LEU:HB2	14	0.39
(1,2700)	1:90:A:VAL:HG12	1:85:A:LEU:HB3	14	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2682)	1:62:A:VAL:HB	1:9:A:VAL:HB	9	0.39
(1,2643)	1:187:A:ALA:HB3	1:190:A:TYR:HB2	14	0.39
(1,2643)	1:187:A:ALA:HB3	1:190:A:TYR:HB3	14	0.39
(1,2636)	1:65:A:LEU:HD22	1:63:A:ASP:HB2	15	0.39
(1,2636)	1:65:A:LEU:HD22	1:63:A:ASP:HB3	15	0.39
(1,2578)	1:64:A:ILE:HD12	1:62:A:VAL:HA	2	0.39
(1,2573)	1:187:A:ALA:HB1	1:186:A:SER:HB2	9	0.39
(1,2573)	1:187:A:ALA:HB1	1:186:A:SER:HB3	9	0.39
(1,2532)	1:183:A:ILE:HG22	1:182:A:PRO:HA	6	0.39
(1,2532)	1:183:A:ILE:HG22	1:182:A:PRO:HA	19	0.39
(1,2481)	1:187:A:ALA:HB3	1:190:A:TYR:HD1	18	0.39
(1,2481)	1:187:A:ALA:HB3	1:190:A:TYR:HD2	18	0.39
(1,2474)	1:101:A:ILE:HD12	1:127:A:TYR:HD1	16	0.39
(1,2474)	1:101:A:ILE:HD12	1:127:A:TYR:HD2	16	0.39
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD11	17	0.39
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD12	17	0.39
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD13	17	0.39
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD21	17	0.39
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD22	17	0.39
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD23	17	0.39
(1,2460)	1:64:A:ILE:HG23	1:20:A:TRP:HZ2	11	0.39
(1,2415)	1:19:A:GLU:H	1:16:A:GLU:HG2	1	0.39
(1,2415)	1:19:A:GLU:H	1:16:A:GLU:HG3	1	0.39
(1,2375)	1:60:A:LYS:HD2	1:61:A:GLU:H	6	0.39
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG21	2	0.39
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG22	2	0.39
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG23	2	0.39
(1,2255)	1:105:A:SER:HB2	1:101:A:ILE:HG21	19	0.39
(1,2255)	1:105:A:SER:HB2	1:101:A:ILE:HG22	19	0.39
(1,2255)	1:105:A:SER:HB2	1:101:A:ILE:HG23	19	0.39
(1,172)	1:122:A:PHE:HE2	1:126:A:LEU:HG	16	0.39
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD21	12	0.39
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD22	12	0.39
(1,128)	1:51:A:PHE:HD1	1:44:A:ARG:HG2	3	0.39
(1,128)	1:51:A:PHE:HD1	1:44:A:ARG:HG3	3	0.39
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG21	3	0.38
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG22	3	0.38
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG23	3	0.38
(1,5678)	1:137:A:ILE:HD11	1:130:A:MET:H	12	0.38
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	17	0.38
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	17	0.38
(1,5396)	1:124:A:GLN:H	1:126:A:LEU:HB2	16	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5396)	1:124:A:GLN:H	1:126:A:LEU:HB3	16	0.38
(1,5394)	1:59:A:ILE:H	1:56:A:ARG:H	11	0.38
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	11	0.38
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG2	3	0.38
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG3	3	0.38
(1,5266)	1:211:A:ASN:HD21	1:210:A:ALA:HB1	10	0.38
(1,5266)	1:211:A:ASN:HD21	1:210:A:ALA:HB2	10	0.38
(1,5266)	1:211:A:ASN:HD21	1:210:A:ALA:HB3	10	0.38
(1,5237)	1:145:A:TYR:H	1:146:A:LYS:HG2	7	0.38
(1,5237)	1:145:A:TYR:H	1:146:A:LYS:HG3	7	0.38
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	7	0.38
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	7	0.38
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	7	0.38
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	20	0.38
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	20	0.38
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	14	0.38
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	14	0.38
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	14	0.38
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	2	0.38
(1,5020)	1:85:A:LEU:H	1:88:A:ARG:HE	2	0.38
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	11	0.38
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	11	0.38
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	11	0.38
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	12	0.38
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	12	0.38
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	12	0.38
(1,3544)	1:97:A:ASP:HB3	1:99:A:SER:HA	15	0.38
(1,3544)	1:97:A:ASP:HB3	1:99:A:SER:HA	18	0.38
(1,3477)	1:83:A:ILE:H	1:65:A:LEU:HB2	17	0.38
(1,3477)	1:83:A:ILE:H	1:65:A:LEU:HB3	17	0.38
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG2	4	0.38
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG3	4	0.38
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG2	4	0.38
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG3	4	0.38
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG2	4	0.38
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG3	4	0.38
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG2	4	0.38
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG3	4	0.38
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG2	4	0.38
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG3	4	0.38
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG2	4	0.38
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG3	4	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3274)	1:22:A:PRO:HD2	1:47:A:ILE:HG12	9	0.38
(1,3274)	1:22:A:PRO:HD2	1:47:A:ILE:HG13	9	0.38
(1,3270)	1:182:A:PRO:HD2	1:146:A:LYS:HD2	15	0.38
(1,3270)	1:182:A:PRO:HD2	1:146:A:LYS:HD3	15	0.38
(1,3217)	1:98:A:ILE:HA	1:96:A:MET:HG2	16	0.38
(1,3217)	1:98:A:ILE:HA	1:96:A:MET:HG3	16	0.38
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB2	4	0.38
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB3	4	0.38
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB2	4	0.38
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB3	4	0.38
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB2	13	0.38
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB3	13	0.38
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB2	13	0.38
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB3	13	0.38
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB2	20	0.38
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB3	20	0.38
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB2	20	0.38
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB3	20	0.38
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	7	0.38
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	7	0.38
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	7	0.38
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG2	15	0.38
(1,3082)	1:173:A:LYS:H	1:173:A:LYS:HG3	15	0.38
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD2	4	0.38
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD3	4	0.38
(1,3014)	1:175:A:ILE:HG21	1:156:A:LEU:HA	14	0.38
(1,3012)	1:160:A:GLN:HG2	1:156:A:LEU:HA	16	0.38
(1,2975)	1:179:A:LEU:HD12	1:176:A:TYR:HA	3	0.38
(1,2908)	1:137:A:ILE:HD11	1:130:A:MET:H	12	0.38
(1,2841)	1:166:A:ILE:HD11	1:157:A:VAL:H	9	0.38
(1,2835)	1:126:A:LEU:HD22	1:130:A:MET:H	16	0.38
(1,2826)	1:59:A:ILE:HB	1:9:A:VAL:HB	5	0.38
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG11	20	0.38
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG12	20	0.38
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG13	20	0.38
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG21	20	0.38
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG22	20	0.38
(1,2783)	1:61:A:GLU:HG3	1:9:A:VAL:HG23	20	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD11	1	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD12	1	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD13	1	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD21	1	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD22	1	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD23	1	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD11	2	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD12	2	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD13	2	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD21	2	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD22	2	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD23	2	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD11	8	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD12	8	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD13	8	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD21	8	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD22	8	0.38
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD23	8	0.38
(1,2699)	1:8:A:VAL:HG22	1:85:A:LEU:HG	9	0.38
(1,2699)	1:8:A:VAL:HG23	1:85:A:LEU:HG	16	0.38
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG2	7	0.38
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG3	7	0.38
(1,2643)	1:187:A:ALA:HB3	1:190:A:TYR:HB2	1	0.38
(1,2643)	1:187:A:ALA:HB3	1:190:A:TYR:HB3	1	0.38
(1,2643)	1:187:A:ALA:HB2	1:190:A:TYR:HB2	3	0.38
(1,2643)	1:187:A:ALA:HB2	1:190:A:TYR:HB3	3	0.38
(1,2636)	1:65:A:LEU:HD11	1:66:A:ASN:HB2	10	0.38
(1,2636)	1:65:A:LEU:HD11	1:66:A:ASN:HB3	10	0.38
(1,2636)	1:65:A:LEU:HD13	1:63:A:ASP:HB2	19	0.38
(1,2636)	1:65:A:LEU:HD13	1:63:A:ASP:HB3	19	0.38
(1,2577)	1:166:A:ILE:HD13	1:160:A:GLN:HA	6	0.38
(1,2539)	1:54:A:ILE:HD11	1:14:A:ALA:HA	5	0.38
(1,2532)	1:183:A:ILE:HG22	1:184:A:LEU:HA	8	0.38
(1,2531)	1:142:A:VAL:HG13	1:147:A:ASP:HA	2	0.38
(1,2531)	1:142:A:VAL:HG22	1:143:A:LEU:HA	4	0.38
(1,2531)	1:142:A:VAL:HG23	1:143:A:LEU:HA	19	0.38
(1,2529)	1:5:A:LEU:HD13	1:2:A:ASP:HA	6	0.38
(1,2527)	1:142:A:VAL:HB	1:143:A:LEU:HA	15	0.38
(1,2481)	1:187:A:ALA:HB2	1:190:A:TYR:HD1	16	0.38
(1,2481)	1:187:A:ALA:HB2	1:190:A:TYR:HD2	16	0.38
(1,2479)	1:194:A:THR:HG23	1:199:A:TYR:HD1	8	0.38
(1,2479)	1:194:A:THR:HG23	1:199:A:TYR:HD2	8	0.38
(1,2422)	1:126:A:LEU:HD22	1:130:A:MET:H	16	0.38
(1,2403)	1:3:A:GLU:HB3	1:4:A:LEU:H	11	0.38
(1,2375)	1:60:A:LYS:HD2	1:61:A:GLU:H	7	0.38
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	1	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	10	0.38
(1,2306)	1:81:A:ALA:HA	1:78:A:LEU:HA	13	0.38
(1,2289)	1:119:A:ARG:HA	1:117:A:GLU:H	3	0.38
(1,172)	1:122:A:PHE:HE1	1:126:A:LEU:HG	2	0.38
(1,113)	1:176:A:TYR:HD1	1:182:A:PRO:HA	8	0.38
(1,5578)	1:38:A:LYS:HA	1:40:A:GLN:H	2	0.37
(1,5522)	1:9:A:VAL:HG22	1:23:A:ALA:H	2	0.37
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	7	0.37
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD2	14	0.37
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD3	14	0.37
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD1	7	0.37
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD2	7	0.37
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB2	13	0.37
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB3	13	0.37
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB2	15	0.37
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB3	15	0.37
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG11	15	0.37
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG12	15	0.37
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG13	15	0.37
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG21	15	0.37
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG22	15	0.37
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG23	15	0.37
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD11	18	0.37
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD12	18	0.37
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD13	18	0.37
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD21	18	0.37
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD22	18	0.37
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD23	18	0.37
(1,5053)	1:78:A:LEU:H	1:64:A:ILE:HG12	15	0.37
(1,5053)	1:78:A:LEU:H	1:64:A:ILE:HG13	15	0.37
(1,5020)	1:85:A:LEU:H	1:88:A:ARG:HE	1	0.37
(1,4985)	1:19:A:GLU:H	1:16:A:GLU:HG2	19	0.37
(1,4985)	1:19:A:GLU:H	1:16:A:GLU:HG3	19	0.37
(1,4965)	1:84:A:PHE:H	1:88:A:ARG:HE	12	0.37
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	15	0.37
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	15	0.37
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	15	0.37
(1,3477)	1:83:A:ILE:H	1:65:A:LEU:HB2	8	0.37
(1,3477)	1:83:A:ILE:H	1:65:A:LEU:HB3	8	0.37
(1,3477)	1:64:A:ILE:H	1:65:A:LEU:HB2	19	0.37
(1,3477)	1:64:A:ILE:H	1:65:A:LEU:HB3	19	0.37
(1,3443)	1:101:A:ILE:HG13	1:96:A:MET:HB2	14	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3443)	1:101:A:ILE:HG13	1:96:A:MET:HB3	14	0.37
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE2	18	0.37
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE3	18	0.37
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE2	18	0.37
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE3	18	0.37
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE2	18	0.37
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE3	18	0.37
(1,3340)	1:19:A:GLU:HB2	1:75:A:LYS:HG2	11	0.37
(1,3340)	1:19:A:GLU:HB2	1:75:A:LYS:HG3	11	0.37
(1,3340)	1:19:A:GLU:HB3	1:75:A:LYS:HG2	11	0.37
(1,3340)	1:19:A:GLU:HB3	1:75:A:LYS:HG3	11	0.37
(1,3312)	1:58:A:ASP:HB2	1:57:A:LYS:HB2	5	0.37
(1,3312)	1:58:A:ASP:HB2	1:57:A:LYS:HB3	5	0.37
(1,3312)	1:158:A:TYR:HB2	1:157:A:VAL:HB	15	0.37
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD11	14	0.37
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD12	14	0.37
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD13	14	0.37
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD21	14	0.37
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD22	14	0.37
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD23	14	0.37
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB2	15	0.37
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB3	15	0.37
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB2	15	0.37
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB3	15	0.37
(1,3096)	1:104:A:SER:H	1:103:A:GLU:HG2	9	0.37
(1,3096)	1:104:A:SER:H	1:103:A:GLU:HG3	9	0.37
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	6	0.37
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	6	0.37
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	6	0.37
(1,2947)	1:133:A:ARG:HD3	1:136:A:PRO:HA	2	0.37
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	16	0.37
(1,2849)	1:67:A:LEU:HG	1:66:A:ASN:H	19	0.37
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD11	6	0.37
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD12	6	0.37
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD13	6	0.37
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD21	6	0.37
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD22	6	0.37
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD23	6	0.37
(1,2766)	1:55:A:ALA:HB1	1:54:A:ILE:HG21	10	0.37
(1,2766)	1:55:A:ALA:HB1	1:54:A:ILE:HG22	10	0.37
(1,2766)	1:55:A:ALA:HB1	1:54:A:ILE:HG23	10	0.37
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG11	7	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG12	7	0.37
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG13	7	0.37
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG21	7	0.37
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG22	7	0.37
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG23	7	0.37
(1,2708)	1:137:A:ILE:HD12	1:139:A:LYS:HB2	18	0.37
(1,2708)	1:137:A:ILE:HD12	1:139:A:LYS:HB3	18	0.37
(1,2632)	1:198:A:LYS:HD3	1:199:A:TYR:HB2	2	0.37
(1,2632)	1:198:A:LYS:HD3	1:199:A:TYR:HB3	2	0.37
(1,2529)	1:5:A:LEU:HD13	1:2:A:ASP:HA	13	0.37
(1,2479)	1:194:A:THR:HG21	1:199:A:TYR:HD1	10	0.37
(1,2479)	1:194:A:THR:HG21	1:199:A:TYR:HD2	10	0.37
(1,2474)	1:101:A:ILE:HD11	1:127:A:TYR:HD1	9	0.37
(1,2474)	1:101:A:ILE:HD11	1:127:A:TYR:HD2	9	0.37
(1,2466)	1:60:A:LYS:HD3	1:20:A:TRP:HD1	17	0.37
(1,2415)	1:19:A:GLU:H	1:16:A:GLU:HG2	19	0.37
(1,2415)	1:19:A:GLU:H	1:16:A:GLU:HG3	19	0.37
(1,5842)	1:222:A:LEU:H	1:221:A:GLU:HG2	10	0.36
(1,5842)	1:222:A:LEU:H	1:221:A:GLU:HG3	10	0.36
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG21	14	0.36
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG22	14	0.36
(1,5810)	1:61:A:GLU:HB2	1:59:A:ILE:HG23	14	0.36
(1,5785)	1:222:A:LEU:H	1:221:A:GLU:HG2	10	0.36
(1,5785)	1:222:A:LEU:H	1:221:A:GLU:HG3	10	0.36
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD21	13	0.36
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD22	13	0.36
(1,5625)	1:143:A:LEU:HG	1:145:A:TYR:H	12	0.36
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	11	0.36
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	11	0.36
(1,5491)	1:37:A:LYS:H	1:37:A:LYS:HE2	15	0.36
(1,5491)	1:37:A:LYS:H	1:37:A:LYS:HE3	15	0.36
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG12	10	0.36
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG13	10	0.36
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG12	7	0.36
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG13	7	0.36
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG12	14	0.36
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG13	14	0.36
(1,5394)	1:59:A:ILE:H	1:56:A:ARG:H	15	0.36
(1,5356)	1:48:A:ASP:H	1:44:A:ARG:HG2	15	0.36
(1,5356)	1:48:A:ASP:H	1:44:A:ARG:HG3	15	0.36
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB2	8	0.36
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB3	8	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5237)	1:145:A:TYR:H	1:143:A:LEU:HG	12	0.36
(1,5237)	1:145:A:TYR:H	1:146:A:LYS:HG2	14	0.36
(1,5237)	1:145:A:TYR:H	1:146:A:LYS:HG3	14	0.36
(1,5226)	1:82:A:SER:H	1:79:A:GLN:HA	18	0.36
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	1	0.36
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	1	0.36
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	13	0.36
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	13	0.36
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	14	0.36
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	14	0.36
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	8	0.36
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	8	0.36
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	8	0.36
(1,5139)	1:80:A:LYS:H	1:47:A:ILE:HD11	13	0.36
(1,5139)	1:80:A:LYS:H	1:47:A:ILE:HD12	13	0.36
(1,5139)	1:80:A:LYS:H	1:47:A:ILE:HD13	13	0.36
(1,5088)	1:172:A:TRP:H	1:173:A:LYS:HA	19	0.36
(1,5070)	1:40:A:GLN:H	1:56:A:ARG:H	20	0.36
(1,4970)	1:64:A:ILE:H	1:65:A:LEU:HA	15	0.36
(1,3434)	1:181:A:ILE:HG12	1:146:A:LYS:HE2	10	0.36
(1,3434)	1:181:A:ILE:HG12	1:146:A:LYS:HE3	10	0.36
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD11	1	0.36
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD12	1	0.36
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD13	1	0.36
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD21	1	0.36
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD22	1	0.36
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD23	1	0.36
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD11	9	0.36
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD12	9	0.36
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD13	9	0.36
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD21	9	0.36
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD22	9	0.36
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD23	9	0.36
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB2	3	0.36
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB3	3	0.36
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB2	3	0.36
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB3	3	0.36
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB2	17	0.36
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB3	17	0.36
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB2	17	0.36
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB3	17	0.36
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	8	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	8	0.36
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	8	0.36
(1,3154)	1:34:A:ILE:H	1:34:A:ILE:HG21	14	0.36
(1,3154)	1:34:A:ILE:H	1:34:A:ILE:HG22	14	0.36
(1,3154)	1:34:A:ILE:H	1:34:A:ILE:HG23	14	0.36
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	14	0.36
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	14	0.36
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	15	0.36
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	15	0.36
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	11	0.36
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	11	0.36
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	11	0.36
(1,3053)	1:55:A:ALA:HB3	1:40:A:GLN:HA	14	0.36
(1,2998)	1:204:A:GLU:HB2	1:197:A:ARG:HA	14	0.36
(1,2866)	1:210:A:ALA:HA	1:212:A:ILE:HG12	16	0.36
(1,2866)	1:210:A:ALA:HA	1:212:A:ILE:HG13	16	0.36
(1,2837)	1:34:A:ILE:HG12	1:51:A:PHE:HA	15	0.36
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD2	11	0.36
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD3	11	0.36
(1,2745)	1:137:A:ILE:HD13	1:126:A:LEU:HB2	4	0.36
(1,2745)	1:137:A:ILE:HD13	1:126:A:LEU:HB3	4	0.36
(1,2606)	1:64:A:ILE:HD12	1:78:A:LEU:HA	4	0.36
(1,2578)	1:64:A:ILE:HD11	1:62:A:VAL:HA	13	0.36
(1,2549)	1:36:A:VAL:HG13	1:37:A:LYS:HA	5	0.36
(1,2549)	1:36:A:VAL:HG13	1:37:A:LYS:HA	7	0.36
(1,2539)	1:54:A:ILE:HD12	1:14:A:ALA:HA	8	0.36
(1,2530)	1:36:A:VAL:HG13	1:37:A:LYS:HA	5	0.36
(1,2530)	1:36:A:VAL:HG13	1:37:A:LYS:HA	7	0.36
(1,2529)	1:5:A:LEU:HD12	1:2:A:ASP:HA	17	0.36
(1,2482)	1:175:A:ILE:HD11	1:172:A:TRP:HZ2	2	0.36
(1,2481)	1:187:A:ALA:HB2	1:190:A:TYR:HD1	10	0.36
(1,2481)	1:187:A:ALA:HB2	1:190:A:TYR:HD2	10	0.36
(1,2479)	1:194:A:THR:HG23	1:190:A:TYR:HD1	2	0.36
(1,2479)	1:194:A:THR:HG23	1:190:A:TYR:HD2	2	0.36
(1,2479)	1:194:A:THR:HG22	1:190:A:TYR:HD1	13	0.36
(1,2479)	1:194:A:THR:HG22	1:190:A:TYR:HD2	13	0.36
(1,2411)	1:88:A:ARG:HD2	1:88:A:ARG:H	20	0.36
(1,2403)	1:3:A:GLU:HB2	1:4:A:LEU:H	12	0.36
(1,2400)	1:34:A:ILE:HD11	1:52:A:TYR:H	18	0.36
(1,2375)	1:60:A:LYS:HD2	1:61:A:GLU:H	15	0.36
(1,5679)	1:139:A:LYS:HD2	1:138:A:ASN:HD21	11	0.35
(1,5679)	1:139:A:LYS:HD2	1:138:A:ASN:HD22	11	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5679)	1:139:A:LYS:HD3	1:138:A:ASN:HD21	11	0.35
(1,5679)	1:139:A:LYS:HD3	1:138:A:ASN:HD22	11	0.35
(1,5679)	1:139:A:LYS:HD2	1:138:A:ASN:HD21	17	0.35
(1,5679)	1:139:A:LYS:HD2	1:138:A:ASN:HD22	17	0.35
(1,5679)	1:139:A:LYS:HD3	1:138:A:ASN:HD21	17	0.35
(1,5679)	1:139:A:LYS:HD3	1:138:A:ASN:HD22	17	0.35
(1,5578)	1:38:A:LYS:HA	1:40:A:GLN:H	15	0.35
(1,5572)	1:94:A:TRP:HD1	1:94:A:TRP:H	12	0.35
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	17	0.35
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	17	0.35
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	17	0.35
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	17	0.35
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	17	0.35
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	17	0.35
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG12	7	0.35
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG13	7	0.35
(1,5396)	1:124:A:GLN:H	1:98:A:ILE:HG12	7	0.35
(1,5396)	1:124:A:GLN:H	1:98:A:ILE:HG13	7	0.35
(1,5394)	1:59:A:ILE:H	1:56:A:ARG:H	14	0.35
(1,5373)	1:134:A:GLY:H	1:133:A:ARG:HD2	17	0.35
(1,5373)	1:134:A:GLY:H	1:133:A:ARG:HD3	17	0.35
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB2	7	0.35
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB3	7	0.35
(1,5333)	1:221:A:GLU:H	1:222:A:LEU:HG	12	0.35
(1,5252)	1:88:A:ARG:HE	1:88:A:ARG:HA	2	0.35
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	5	0.35
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	5	0.35
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	15	0.35
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	15	0.35
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	15	0.35
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	16	0.35
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	16	0.35
(1,4996)	1:75:A:LYS:H	1:76:A:PRO:HG2	11	0.35
(1,4996)	1:75:A:LYS:H	1:76:A:PRO:HG3	11	0.35
(1,4965)	1:84:A:PHE:H	1:88:A:ARG:HE	14	0.35
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	10	0.35
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	10	0.35
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	10	0.35
(1,3270)	1:182:A:PRO:HD2	1:146:A:LYS:HD2	10	0.35
(1,3270)	1:182:A:PRO:HD2	1:146:A:LYS:HD3	10	0.35
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	13	0.35
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	13	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	13	0.35
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	11	0.35
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	11	0.35
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	11	0.35
(1,3048)	1:34:A:ILE:HB	1:51:A:PHE:HA	4	0.35
(1,2903)	1:11:A:VAL:HG13	1:54:A:ILE:HB	1	0.35
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD11	14	0.35
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD12	14	0.35
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD13	14	0.35
(1,2868)	1:157:A:VAL:HA	1:160:A:GLN:HA	7	0.35
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	4	0.35
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	11	0.35
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD11	19	0.35
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD12	19	0.35
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD13	19	0.35
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD21	19	0.35
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD22	19	0.35
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD23	19	0.35
(1,2660)	1:65:A:LEU:HD13	1:63:A:ASP:HB2	20	0.35
(1,2660)	1:65:A:LEU:HD13	1:63:A:ASP:HB3	20	0.35
(1,2532)	1:183:A:ILE:HG23	1:182:A:PRO:HA	5	0.35
(1,2531)	1:142:A:VAL:HG21	1:143:A:LEU:HA	18	0.35
(1,2502)	1:42:A:LEU:HG	1:53:A:SER:HA	17	0.35
(1,2485)	1:34:A:ILE:HG12	1:51:A:PHE:HD1	15	0.35
(1,2485)	1:34:A:ILE:HG12	1:51:A:PHE:HD2	15	0.35
(1,2481)	1:187:A:ALA:HB3	1:190:A:TYR:HD1	17	0.35
(1,2481)	1:187:A:ALA:HB3	1:190:A:TYR:HD2	17	0.35
(1,2403)	1:3:A:GLU:HB2	1:4:A:LEU:H	2	0.35
(1,2375)	1:60:A:LYS:HD2	1:61:A:GLU:H	5	0.35
(1,2375)	1:60:A:LYS:HD2	1:61:A:GLU:H	20	0.35
(1,2327)	1:160:A:GLN:HA	1:157:A:VAL:HA	7	0.35
(1,2314)	1:88:A:ARG:HA	1:88:A:ARG:HE	2	0.35
(1,2238)	1:207:A:CYS:HA	1:213:A:GLN:HE21	7	0.35
(1,2238)	1:207:A:CYS:HA	1:213:A:GLN:HE22	7	0.35
(1,113)	1:176:A:TYR:HD2	1:182:A:PRO:HA	6	0.35
(1,5821)	1:108:A:LYS:HB2	1:108:A:LYS:H	7	0.34
(1,5663)	1:38:A:LYS:HG3	1:40:A:GLN:H	6	0.34
(1,5578)	1:38:A:LYS:HA	1:40:A:GLN:H	16	0.34
(1,5578)	1:38:A:LYS:HA	1:40:A:GLN:H	18	0.34
(1,5490)	1:63:A:ASP:H	1:67:A:LEU:HG	14	0.34
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	4	0.34
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	4	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD2	7	0.34
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD3	7	0.34
(1,5394)	1:59:A:ILE:H	1:56:A:ARG:H	16	0.34
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG2	6	0.34
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG3	6	0.34
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB2	2	0.34
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB3	2	0.34
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB2	9	0.34
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB3	9	0.34
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	6	0.34
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	7	0.34
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	7	0.34
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	9	0.34
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	9	0.34
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB2	3	0.34
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB3	3	0.34
(1,5166)	1:159:A:HIS:H	1:157:A:VAL:HB	15	0.34
(1,4985)	1:19:A:GLU:H	1:16:A:GLU:HG2	5	0.34
(1,4985)	1:19:A:GLU:H	1:16:A:GLU:HG3	5	0.34
(1,4975)	1:75:A:LYS:H	1:74:A:THR:HB	2	0.34
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	7	0.34
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	7	0.34
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	7	0.34
(1,4908)	1:20:A:TRP:HE1	1:60:A:LYS:HD2	14	0.34
(1,4908)	1:20:A:TRP:HE1	1:60:A:LYS:HD3	14	0.34
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	2	0.34
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	2	0.34
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	2	0.34
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	10	0.34
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	10	0.34
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	10	0.34
(1,3259)	1:80:A:LYS:HA	1:80:A:LYS:HE2	12	0.34
(1,3259)	1:80:A:LYS:HA	1:80:A:LYS:HE3	12	0.34
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD11	17	0.34
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD12	17	0.34
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD13	17	0.34
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD21	17	0.34
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD22	17	0.34
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD23	17	0.34
(1,3221)	1:170:A:ALA:HA	1:173:A:LYS:HD2	11	0.34
(1,3221)	1:170:A:ALA:HA	1:173:A:LYS:HD3	11	0.34
(1,3177)	1:122:A:PHE:HD1	1:203:A:PHE:HB2	6	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3177)	1:122:A:PHE:HD1	1:203:A:PHE:HB3	6	0.34
(1,3177)	1:122:A:PHE:HD2	1:203:A:PHE:HB2	6	0.34
(1,3177)	1:122:A:PHE:HD2	1:203:A:PHE:HB3	6	0.34
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB2	10	0.34
(1,3177)	1:203:A:PHE:HE1	1:203:A:PHE:HB3	10	0.34
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB2	10	0.34
(1,3177)	1:203:A:PHE:HE2	1:203:A:PHE:HB3	10	0.34
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	17	0.34
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	17	0.34
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	8	0.34
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	8	0.34
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	8	0.34
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	16	0.34
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	16	0.34
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	16	0.34
(1,3096)	1:19:A:GLU:H	1:16:A:GLU:HG2	5	0.34
(1,3096)	1:19:A:GLU:H	1:16:A:GLU:HG3	5	0.34
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG2	17	0.34
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG3	17	0.34
(1,3053)	1:55:A:ALA:HB1	1:40:A:GLN:HA	16	0.34
(1,2908)	1:137:A:ILE:HD13	1:199:A:TYR:H	13	0.34
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD11	16	0.34
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD12	16	0.34
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD13	16	0.34
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD21	16	0.34
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD22	16	0.34
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD23	16	0.34
(1,2726)	1:61:A:GLU:HG3	1:60:A:LYS:HB2	18	0.34
(1,2726)	1:61:A:GLU:HG3	1:60:A:LYS:HB3	18	0.34
(1,2682)	1:62:A:VAL:HB	1:9:A:VAL:HB	15	0.34
(1,2578)	1:64:A:ILE:HD11	1:62:A:VAL:HA	15	0.34
(1,2575)	1:64:A:ILE:HG21	1:78:A:LEU:HA	3	0.34
(1,2549)	1:36:A:VAL:HG13	1:37:A:LYS:HA	1	0.34
(1,2549)	1:36:A:VAL:HG11	1:37:A:LYS:HA	3	0.34
(1,2530)	1:36:A:VAL:HG13	1:37:A:LYS:HA	1	0.34
(1,2530)	1:36:A:VAL:HG11	1:37:A:LYS:HA	3	0.34
(1,2481)	1:187:A:ALA:HB3	1:190:A:TYR:HD1	14	0.34
(1,2481)	1:187:A:ALA:HB3	1:190:A:TYR:HD2	14	0.34
(1,2415)	1:19:A:GLU:H	1:16:A:GLU:HG2	5	0.34
(1,2415)	1:19:A:GLU:H	1:16:A:GLU:HG3	5	0.34
(1,2385)	1:34:A:ILE:HB	1:52:A:TYR:H	14	0.34
(1,2373)	1:26:A:ILE:HD13	1:43:A:VAL:H	12	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG21	7	0.34
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG22	7	0.34
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG23	7	0.34
(1,5803)	1:152:A:LYS:HD2	1:113:A:GLU:HB2	13	0.33
(1,5803)	1:152:A:LYS:HD2	1:113:A:GLU:HB3	13	0.33
(1,5788)	1:98:A:ILE:HD11	1:105:A:SER:HA	11	0.33
(1,5554)	1:128:A:LYS:HB3	1:129:A:PHE:H	7	0.33
(1,5522)	1:9:A:VAL:HG23	1:23:A:ALA:H	18	0.33
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	14	0.33
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	14	0.33
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	15	0.33
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	15	0.33
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG12	17	0.33
(1,5450)	1:124:A:GLN:H	1:101:A:ILE:HG13	17	0.33
(1,5394)	1:59:A:ILE:H	1:56:A:ARG:H	5	0.33
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG2	3	0.33
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG3	3	0.33
(1,5331)	1:75:A:LYS:H	1:71:A:GLU:HG2	10	0.33
(1,5331)	1:75:A:LYS:H	1:71:A:GLU:HG3	10	0.33
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	20	0.33
(1,5267)	1:160:A:GLN:HE21	1:157:A:VAL:HG11	15	0.33
(1,5267)	1:160:A:GLN:HE21	1:157:A:VAL:HG12	15	0.33
(1,5267)	1:160:A:GLN:HE21	1:157:A:VAL:HG13	15	0.33
(1,5267)	1:160:A:GLN:HE21	1:157:A:VAL:HG21	15	0.33
(1,5267)	1:160:A:GLN:HE21	1:157:A:VAL:HG22	15	0.33
(1,5267)	1:160:A:GLN:HE21	1:157:A:VAL:HG23	15	0.33
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	10	0.33
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	10	0.33
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	15	0.33
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	15	0.33
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	5	0.33
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	5	0.33
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	5	0.33
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD11	15	0.33
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD12	15	0.33
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD13	15	0.33
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD21	15	0.33
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD22	15	0.33
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD23	15	0.33
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	4	0.33
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	4	0.33
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG21	13	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG22	13	0.33
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG23	13	0.33
(1,4975)	1:75:A:LYS:H	1:74:A:THR:HB	8	0.33
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD1	16	0.33
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD2	16	0.33
(1,4939)	1:3:A:GLU:H	1:2:A:ASP:H	14	0.33
(1,4908)	1:20:A:TRP:HE1	1:75:A:LYS:HD2	4	0.33
(1,4908)	1:20:A:TRP:HE1	1:75:A:LYS:HD3	4	0.33
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	10	0.33
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	10	0.33
(1,3544)	1:97:A:ASP:HB3	1:99:A:SER:HA	20	0.33
(1,3429)	1:181:A:ILE:HG21	1:182:A:PRO:HG2	16	0.33
(1,3429)	1:181:A:ILE:HG21	1:182:A:PRO:HG3	16	0.33
(1,3429)	1:181:A:ILE:HG22	1:182:A:PRO:HG2	16	0.33
(1,3429)	1:181:A:ILE:HG22	1:182:A:PRO:HG3	16	0.33
(1,3429)	1:181:A:ILE:HG23	1:182:A:PRO:HG2	16	0.33
(1,3429)	1:181:A:ILE:HG23	1:182:A:PRO:HG3	16	0.33
(1,3340)	1:76:A:PRO:HG2	1:75:A:LYS:HG2	15	0.33
(1,3340)	1:76:A:PRO:HG2	1:75:A:LYS:HG3	15	0.33
(1,3340)	1:76:A:PRO:HG3	1:75:A:LYS:HG2	15	0.33
(1,3340)	1:76:A:PRO:HG3	1:75:A:LYS:HG3	15	0.33
(1,3330)	1:90:A:VAL:HB	1:91:A:PRO:HG2	7	0.33
(1,3330)	1:90:A:VAL:HB	1:91:A:PRO:HG3	7	0.33
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG12	4	0.33
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG13	4	0.33
(1,3259)	1:80:A:LYS:HA	1:80:A:LYS:HE2	7	0.33
(1,3259)	1:80:A:LYS:HA	1:80:A:LYS:HE3	7	0.33
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG21	2	0.33
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG22	2	0.33
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG23	2	0.33
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	1	0.33
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	1	0.33
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	4	0.33
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	4	0.33
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	12	0.33
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	12	0.33
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	12	0.33
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	14	0.33
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	14	0.33
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	14	0.33
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	17	0.33
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	17	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	17	0.33
(1,3115)	1:80:A:LYS:H	1:22:A:PRO:HG2	20	0.33
(1,3115)	1:80:A:LYS:H	1:22:A:PRO:HG3	20	0.33
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	1	0.33
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	1	0.33
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	1	0.33
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG11	2	0.33
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG12	2	0.33
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG13	2	0.33
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG21	2	0.33
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG22	2	0.33
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG23	2	0.33
(1,3053)	1:55:A:ALA:HB1	1:40:A:GLN:HA	17	0.33
(1,3051)	1:34:A:ILE:HG22	1:53:A:SER:HA	1	0.33
(1,3048)	1:34:A:ILE:HB	1:51:A:PHE:HA	18	0.33
(1,3012)	1:160:A:GLN:HG2	1:156:A:LEU:HA	10	0.33
(1,2947)	1:133:A:ARG:HD2	1:136:A:PRO:HA	13	0.33
(1,2868)	1:157:A:VAL:HA	1:160:A:GLN:HA	19	0.33
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	18	0.33
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD11	10	0.33
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD12	10	0.33
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD13	10	0.33
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD21	10	0.33
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD22	10	0.33
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD23	10	0.33
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG11	11	0.33
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG12	11	0.33
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG13	11	0.33
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG21	11	0.33
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG22	11	0.33
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG23	11	0.33
(1,2685)	1:67:A:LEU:HD13	1:71:A:GLU:HB2	16	0.33
(1,2685)	1:67:A:LEU:HD13	1:71:A:GLU:HB3	16	0.33
(1,2669)	1:85:A:LEU:HD12	1:8:A:VAL:HB	15	0.33
(1,2596)	1:90:A:VAL:HG13	1:85:A:LEU:HA	13	0.33
(1,2577)	1:166:A:ILE:HD11	1:160:A:GLN:HA	4	0.33
(1,2571)	1:130:A:MET:HE3	1:136:A:PRO:HA	6	0.33
(1,2532)	1:183:A:ILE:HG21	1:184:A:LEU:HA	4	0.33
(1,2532)	1:183:A:ILE:HG23	1:182:A:PRO:HA	16	0.33
(1,2481)	1:187:A:ALA:HB1	1:190:A:TYR:HD1	5	0.33
(1,2481)	1:187:A:ALA:HB1	1:190:A:TYR:HD2	5	0.33
(1,2479)	1:194:A:THR:HG22	1:190:A:TYR:HD1	6	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2479)	1:194:A:THR:HG22	1:190:A:TYR:HD2	6	0.33
(1,2479)	1:194:A:THR:HG21	1:190:A:TYR:HD1	9	0.33
(1,2479)	1:194:A:THR:HG21	1:190:A:TYR:HD2	9	0.33
(1,2474)	1:101:A:ILE:HD12	1:127:A:TYR:HD1	2	0.33
(1,2474)	1:101:A:ILE:HD12	1:127:A:TYR:HD2	2	0.33
(1,2385)	1:34:A:ILE:HB	1:52:A:TYR:H	18	0.33
(1,2375)	1:60:A:LYS:HD2	1:61:A:GLU:H	8	0.33
(1,2327)	1:160:A:GLN:HA	1:157:A:VAL:HA	19	0.33
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB2	5	0.33
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB3	5	0.33
(1,2238)	1:207:A:CYS:HA	1:211:A:ASN:HD21	3	0.33
(1,2238)	1:207:A:CYS:HA	1:211:A:ASN:HD22	3	0.33
(1,172)	1:122:A:PHE:HE1	1:200:A:LEU:HB2	7	0.33
(1,172)	1:122:A:PHE:HE1	1:200:A:LEU:HB3	7	0.33
(1,120)	1:199:A:TYR:HE1	1:137:A:ILE:HG12	9	0.33
(1,120)	1:199:A:TYR:HE1	1:137:A:ILE:HG13	9	0.33
(1,5849)	1:113:A:GLU:HG3	1:113:A:GLU:HA	20	0.32
(1,5821)	1:108:A:LYS:HB2	1:109:A:ASP:H	9	0.32
(1,5572)	1:94:A:TRP:HD1	1:94:A:TRP:H	3	0.32
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	5	0.32
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	5	0.32
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	7	0.32
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	7	0.32
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG12	8	0.32
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG13	8	0.32
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG12	19	0.32
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG13	19	0.32
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB2	5	0.32
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB3	5	0.32
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD11	11	0.32
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD12	11	0.32
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD13	11	0.32
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD21	11	0.32
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD22	11	0.32
(1,5362)	1:40:A:GLN:HE21	1:42:A:LEU:HD23	11	0.32
(1,5356)	1:48:A:ASP:H	1:44:A:ARG:HG2	9	0.32
(1,5356)	1:48:A:ASP:H	1:44:A:ARG:HG3	9	0.32
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB2	3	0.32
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB3	3	0.32
(1,5333)	1:221:A:GLU:H	1:222:A:LEU:HB2	11	0.32
(1,5333)	1:221:A:GLU:H	1:222:A:LEU:HB3	11	0.32
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG11	4	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG12	4	0.32
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG13	4	0.32
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG21	4	0.32
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG22	4	0.32
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG23	4	0.32
(1,5237)	1:145:A:TYR:H	1:146:A:LYS:HG2	3	0.32
(1,5237)	1:145:A:TYR:H	1:146:A:LYS:HG3	3	0.32
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	16	0.32
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	16	0.32
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	16	0.32
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	3	0.32
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	3	0.32
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	4	0.32
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	4	0.32
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	4	0.32
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	6	0.32
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	6	0.32
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	6	0.32
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	9	0.32
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	9	0.32
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	9	0.32
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG11	14	0.32
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG12	14	0.32
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG13	14	0.32
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG21	14	0.32
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG22	14	0.32
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG23	14	0.32
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	19	0.32
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	19	0.32
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG21	16	0.32
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG22	16	0.32
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG23	16	0.32
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	2	0.32
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	2	0.32
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	2	0.32
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	6	0.32
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	6	0.32
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	6	0.32
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	14	0.32
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	14	0.32
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	14	0.32
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	6	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	6	0.32
(1,3544)	1:97:A:ASP:HB3	1:99:A:SER:HA	7	0.32
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG2	17	0.32
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG3	17	0.32
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG2	17	0.32
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG3	17	0.32
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG2	17	0.32
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG3	17	0.32
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG2	17	0.32
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG3	17	0.32
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG2	17	0.32
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG3	17	0.32
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG2	17	0.32
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG3	17	0.32
(1,3439)	1:102:A:LEU:HD22	1:147:A:ASP:HB2	16	0.32
(1,3439)	1:102:A:LEU:HD22	1:147:A:ASP:HB3	16	0.32
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE2	20	0.32
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE3	20	0.32
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE2	20	0.32
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE3	20	0.32
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE2	20	0.32
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE3	20	0.32
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	19	0.32
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	19	0.32
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	19	0.32
(1,3287)	1:140:A:PRO:HD3	1:139:A:LYS:HD2	4	0.32
(1,3287)	1:140:A:PRO:HD3	1:139:A:LYS:HD3	4	0.32
(1,3259)	1:56:A:ARG:HA	1:56:A:ARG:HD2	20	0.32
(1,3259)	1:56:A:ARG:HA	1:56:A:ARG:HD3	20	0.32
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD11	2	0.32
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD12	2	0.32
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD13	2	0.32
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD21	2	0.32
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD22	2	0.32
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD23	2	0.32
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD11	18	0.32
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD12	18	0.32
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD13	18	0.32
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD21	18	0.32
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD22	18	0.32
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD23	18	0.32
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	4	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	4	0.32
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	4	0.32
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	9	0.32
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	9	0.32
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	9	0.32
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	16	0.32
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	16	0.32
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	16	0.32
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	18	0.32
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	18	0.32
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	18	0.32
(1,3051)	1:43:A:VAL:HG23	1:53:A:SER:HA	8	0.32
(1,3012)	1:160:A:GLN:HG2	1:156:A:LEU:HA	17	0.32
(1,2998)	1:204:A:GLU:HB3	1:197:A:ARG:HA	11	0.32
(1,2959)	1:84:A:PHE:HE1	1:84:A:PHE:HA	15	0.32
(1,2947)	1:133:A:ARG:HD2	1:136:A:PRO:HA	7	0.32
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD11	10	0.32
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD12	10	0.32
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD13	10	0.32
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD21	10	0.32
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD22	10	0.32
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD23	10	0.32
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG11	12	0.32
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG12	12	0.32
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG13	12	0.32
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG21	12	0.32
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG22	12	0.32
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG23	12	0.32
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG21	6	0.32
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG22	6	0.32
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG23	6	0.32
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD11	2	0.32
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD12	2	0.32
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD13	2	0.32
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD21	2	0.32
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD22	2	0.32
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD23	2	0.32
(1,2609)	1:5:A:LEU:HD11	1:6:A:GLY:HA2	15	0.32
(1,2609)	1:5:A:LEU:HD11	1:6:A:GLY:HA3	15	0.32
(1,2591)	1:133:A:ARG:HG3	1:134:A:GLY:HA2	7	0.32
(1,2591)	1:133:A:ARG:HG3	1:134:A:GLY:HA3	7	0.32
(1,2578)	1:64:A:ILE:HD13	1:62:A:VAL:HA	16	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2571)	1:130:A:MET:HE3	1:198:A:LYS:HA	11	0.32
(1,2549)	1:36:A:VAL:HG12	1:37:A:LYS:HA	4	0.32
(1,2538)	1:183:A:ILE:HD11	1:184:A:LEU:HA	9	0.32
(1,2536)	1:181:A:ILE:HD11	1:179:A:LEU:HA	14	0.32
(1,2534)	1:101:A:ILE:HG22	1:105:A:SER:HA	20	0.32
(1,2532)	1:183:A:ILE:HG21	1:182:A:PRO:HA	9	0.32
(1,2530)	1:36:A:VAL:HG12	1:37:A:LYS:HA	4	0.32
(1,2481)	1:187:A:ALA:HB1	1:190:A:TYR:HD1	19	0.32
(1,2481)	1:187:A:ALA:HB1	1:190:A:TYR:HD2	19	0.32
(1,2479)	1:194:A:THR:HG23	1:190:A:TYR:HD1	17	0.32
(1,2479)	1:194:A:THR:HG23	1:190:A:TYR:HD2	17	0.32
(1,2479)	1:194:A:THR:HG23	1:199:A:TYR:HD1	20	0.32
(1,2479)	1:194:A:THR:HG23	1:199:A:TYR:HD2	20	0.32
(1,2474)	1:101:A:ILE:HD12	1:127:A:TYR:HD1	11	0.32
(1,2474)	1:101:A:ILE:HD12	1:127:A:TYR:HD2	11	0.32
(1,2443)	1:83:A:ILE:HD12	1:83:A:ILE:H	17	0.32
(1,2411)	1:88:A:ARG:HD2	1:88:A:ARG:H	12	0.32
(1,2403)	1:3:A:GLU:HB2	1:4:A:LEU:H	20	0.32
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	3	0.32
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB2	8	0.32
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB3	8	0.32
(1,113)	1:176:A:TYR:HD2	1:182:A:PRO:HA	10	0.32
(1,113)	1:176:A:TYR:HD1	1:182:A:PRO:HA	20	0.32
(1,5849)	1:113:A:GLU:HG3	1:113:A:GLU:HA	19	0.31
(1,5810)	1:61:A:GLU:HB3	1:59:A:ILE:HG21	18	0.31
(1,5810)	1:61:A:GLU:HB3	1:59:A:ILE:HG22	18	0.31
(1,5810)	1:61:A:GLU:HB3	1:59:A:ILE:HG23	18	0.31
(1,5697)	1:139:A:LYS:HD3	1:138:A:ASN:HD21	1	0.31
(1,5697)	1:139:A:LYS:HD3	1:138:A:ASN:HD22	1	0.31
(1,5697)	1:124:A:GLN:HB3	1:121:A:ASN:HD21	16	0.31
(1,5697)	1:124:A:GLN:HB3	1:121:A:ASN:HD22	16	0.31
(1,5679)	1:139:A:LYS:HB2	1:138:A:ASN:HD21	16	0.31
(1,5679)	1:139:A:LYS:HB2	1:138:A:ASN:HD22	16	0.31
(1,5679)	1:139:A:LYS:HB3	1:138:A:ASN:HD21	16	0.31
(1,5679)	1:139:A:LYS:HB3	1:138:A:ASN:HD22	16	0.31
(1,5578)	1:38:A:LYS:HA	1:40:A:GLN:H	8	0.31
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB2	15	0.31
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB3	15	0.31
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	7	0.31
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	7	0.31
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	7	0.31
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	7	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	7	0.31
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	7	0.31
(1,5404)	1:89:A:VAL:H	1:89:A:VAL:HB	5	0.31
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD1	6	0.31
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD2	6	0.31
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB1	6	0.31
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB2	6	0.31
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB3	6	0.31
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	4	0.31
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	2	0.31
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	2	0.31
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	2	0.31
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	10	0.31
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	10	0.31
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	10	0.31
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	11	0.31
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	11	0.31
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	11	0.31
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	20	0.31
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	20	0.31
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	20	0.31
(1,5053)	1:78:A:LEU:H	1:72:A:LEU:HB2	5	0.31
(1,5053)	1:78:A:LEU:H	1:72:A:LEU:HB3	5	0.31
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG21	5	0.31
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG22	5	0.31
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG23	5	0.31
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG21	17	0.31
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG22	17	0.31
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG23	17	0.31
(1,4975)	1:75:A:LYS:H	1:74:A:THR:HB	4	0.31
(1,4970)	1:64:A:ILE:H	1:65:A:LEU:HA	8	0.31
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	16	0.31
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	16	0.31
(1,3516)	1:80:A:LYS:HD2	1:46:A:PHE:HB2	20	0.31
(1,3516)	1:80:A:LYS:HD2	1:46:A:PHE:HB3	20	0.31
(1,3516)	1:80:A:LYS:HD3	1:46:A:PHE:HB2	20	0.31
(1,3516)	1:80:A:LYS:HD3	1:46:A:PHE:HB3	20	0.31
(1,3505)	1:197:A:ARG:HG3	1:197:A:ARG:HA	3	0.31
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	11	0.31
(1,3490)	1:16:A:GLU:H	1:14:A:ALA:HA	3	0.31
(1,3442)	1:59:A:ILE:HG21	1:61:A:GLU:HG2	9	0.31
(1,3442)	1:59:A:ILE:HG21	1:61:A:GLU:HG3	9	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3442)	1:59:A:ILE:HG22	1:61:A:GLU:HG2	9	0.31
(1,3442)	1:59:A:ILE:HG22	1:61:A:GLU:HG3	9	0.31
(1,3442)	1:59:A:ILE:HG23	1:61:A:GLU:HG2	9	0.31
(1,3442)	1:59:A:ILE:HG23	1:61:A:GLU:HG3	9	0.31
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG2	12	0.31
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG3	12	0.31
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG2	12	0.31
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG3	12	0.31
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG2	12	0.31
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG3	12	0.31
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG2	12	0.31
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG3	12	0.31
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG2	12	0.31
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG3	12	0.31
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG2	12	0.31
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG3	12	0.31
(1,3434)	1:181:A:ILE:HG12	1:146:A:LYS:HE2	18	0.31
(1,3434)	1:181:A:ILE:HG12	1:146:A:LYS:HE3	18	0.31
(1,3398)	1:15:A:THR:HG21	1:16:A:GLU:HG2	20	0.31
(1,3398)	1:15:A:THR:HG21	1:16:A:GLU:HG3	20	0.31
(1,3398)	1:15:A:THR:HG22	1:16:A:GLU:HG2	20	0.31
(1,3398)	1:15:A:THR:HG22	1:16:A:GLU:HG3	20	0.31
(1,3398)	1:15:A:THR:HG23	1:16:A:GLU:HG2	20	0.31
(1,3398)	1:15:A:THR:HG23	1:16:A:GLU:HG3	20	0.31
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	11	0.31
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	11	0.31
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	11	0.31
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD11	20	0.31
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD12	20	0.31
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD13	20	0.31
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD21	20	0.31
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD22	20	0.31
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD23	20	0.31
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	5	0.31
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	5	0.31
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	5	0.31
(1,3259)	1:56:A:ARG:HA	1:56:A:ARG:HD2	1	0.31
(1,3259)	1:56:A:ARG:HA	1:56:A:ARG:HD3	1	0.31
(1,3177)	1:122:A:PHE:HD1	1:203:A:PHE:HB2	5	0.31
(1,3177)	1:122:A:PHE:HD1	1:203:A:PHE:HB3	5	0.31
(1,3177)	1:122:A:PHE:HD2	1:203:A:PHE:HB2	5	0.31
(1,3177)	1:122:A:PHE:HD2	1:203:A:PHE:HB3	5	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3161)	1:133:A:ARG:HE	1:135:A:THR:HG21	11	0.31
(1,3161)	1:133:A:ARG:HE	1:135:A:THR:HG22	11	0.31
(1,3161)	1:133:A:ARG:HE	1:135:A:THR:HG23	11	0.31
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	2	0.31
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	2	0.31
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	2	0.31
(1,3154)	1:34:A:ILE:H	1:34:A:ILE:HG21	4	0.31
(1,3154)	1:34:A:ILE:H	1:34:A:ILE:HG22	4	0.31
(1,3154)	1:34:A:ILE:H	1:34:A:ILE:HG23	4	0.31
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	10	0.31
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	10	0.31
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	10	0.31
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	11	0.31
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	11	0.31
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	11	0.31
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	20	0.31
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	20	0.31
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	20	0.31
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	10	0.31
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	10	0.31
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	10	0.31
(1,3096)	1:104:A:SER:H	1:103:A:GLU:HG2	13	0.31
(1,3096)	1:104:A:SER:H	1:103:A:GLU:HG3	13	0.31
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	5	0.31
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	5	0.31
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	5	0.31
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	7	0.31
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	7	0.31
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	7	0.31
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	10	0.31
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	10	0.31
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	10	0.31
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG2	20	0.31
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG3	20	0.31
(1,3081)	1:8:A:VAL:H	1:7:A:LYS:HG2	2	0.31
(1,3081)	1:8:A:VAL:H	1:7:A:LYS:HG3	2	0.31
(1,2975)	1:179:A:LEU:HD13	1:176:A:TYR:HA	11	0.31
(1,2843)	1:181:A:ILE:HD12	1:153:A:LEU:HB2	5	0.31
(1,2843)	1:181:A:ILE:HD12	1:153:A:LEU:HB3	5	0.31
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD2	6	0.31
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD3	6	0.31
(1,2828)	1:137:A:ILE:HB	1:101:A:ILE:HA	13	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG21	15	0.31
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG22	15	0.31
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG23	15	0.31
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG11	9	0.31
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG12	9	0.31
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG13	9	0.31
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG21	9	0.31
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG22	9	0.31
(1,2744)	1:195:A:ALA:HB2	1:192:A:VAL:HG23	9	0.31
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG11	17	0.31
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG12	17	0.31
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG13	17	0.31
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG21	17	0.31
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG22	17	0.31
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG23	17	0.31
(1,2575)	1:64:A:ILE:HG23	1:78:A:LEU:HA	6	0.31
(1,2575)	1:64:A:ILE:HG23	1:78:A:LEU:HA	10	0.31
(1,2532)	1:183:A:ILE:HG23	1:182:A:PRO:HA	7	0.31
(1,2532)	1:183:A:ILE:HG23	1:184:A:LEU:HA	11	0.31
(1,2527)	1:142:A:VAL:HB	1:143:A:LEU:HA	10	0.31
(1,2489)	1:87:A:THR:HG22	1:84:A:PHE:HD1	2	0.31
(1,2489)	1:87:A:THR:HG22	1:84:A:PHE:HD2	2	0.31
(1,2429)	1:181:A:ILE:HD13	1:180:A:GLY:H	13	0.31
(1,2403)	1:3:A:GLU:HB2	1:4:A:LEU:H	9	0.31
(1,2385)	1:34:A:ILE:HB	1:53:A:SER:H	13	0.31
(1,2385)	1:34:A:ILE:HB	1:52:A:TYR:H	15	0.31
(1,2385)	1:34:A:ILE:HB	1:52:A:TYR:H	16	0.31
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	15	0.31
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	19	0.31
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG21	13	0.31
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG22	13	0.31
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG23	13	0.31
(1,183)	1:145:A:TYR:H	1:145:A:TYR:HE1	2	0.31
(1,183)	1:145:A:TYR:H	1:145:A:TYR:HE2	2	0.31
(1,183)	1:145:A:TYR:H	1:145:A:TYR:HE1	4	0.31
(1,183)	1:145:A:TYR:H	1:145:A:TYR:HE2	4	0.31
(1,183)	1:50:A:LYS:H	1:52:A:TYR:HE1	19	0.31
(1,183)	1:50:A:LYS:H	1:52:A:TYR:HE2	19	0.31
(1,113)	1:176:A:TYR:HD2	1:182:A:PRO:HA	5	0.31
(1,113)	1:176:A:TYR:HD2	1:182:A:PRO:HA	19	0.31
(1,5821)	1:108:A:LYS:HB2	1:108:A:LYS:H	15	0.3
(1,5679)	1:139:A:LYS:HB2	1:138:A:ASN:HD21	3	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5679)	1:139:A:LYS:HB2	1:138:A:ASN:HD22	3	0.3
(1,5679)	1:139:A:LYS:HB3	1:138:A:ASN:HD21	3	0.3
(1,5679)	1:139:A:LYS:HB3	1:138:A:ASN:HD22	3	0.3
(1,5663)	1:160:A:GLN:HB2	1:157:A:VAL:H	17	0.3
(1,5578)	1:153:A:LEU:HA	1:157:A:VAL:H	11	0.3
(1,5547)	1:100:A:GLU:HG3	1:100:A:GLU:H	15	0.3
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	6	0.3
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	6	0.3
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB2	11	0.3
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB3	11	0.3
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD2	4	0.3
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD3	4	0.3
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG12	20	0.3
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG13	20	0.3
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD1	10	0.3
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD2	10	0.3
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB2	16	0.3
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB3	16	0.3
(1,5322)	1:149:A:ASN:H	1:146:A:LYS:HG2	5	0.3
(1,5322)	1:149:A:ASN:H	1:146:A:LYS:HG3	5	0.3
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB2	7	0.3
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB3	7	0.3
(1,5318)	1:36:A:VAL:H	1:37:A:LYS:HG2	15	0.3
(1,5318)	1:36:A:VAL:H	1:37:A:LYS:HG3	15	0.3
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	7	0.3
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	7	0.3
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	7	0.3
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	7	0.3
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	7	0.3
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	7	0.3
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	8	0.3
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	8	0.3
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB2	6	0.3
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB3	6	0.3
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	6	0.3
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	6	0.3
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	6	0.3
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	19	0.3
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	19	0.3
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	19	0.3
(1,5149)	1:105:A:SER:H	1:103:A:GLU:HA	3	0.3
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	3	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	3	0.3
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	3	0.3
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	15	0.3
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	15	0.3
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	15	0.3
(1,5053)	1:78:A:LEU:H	1:80:A:LYS:HG2	19	0.3
(1,5053)	1:78:A:LEU:H	1:80:A:LYS:HG3	19	0.3
(1,4970)	1:64:A:ILE:H	1:65:A:LEU:HA	10	0.3
(1,4970)	1:64:A:ILE:H	1:65:A:LEU:HA	17	0.3
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	9	0.3
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	9	0.3
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	9	0.3
(1,3524)	1:58:A:ASP:H	1:57:A:LYS:HE2	9	0.3
(1,3524)	1:58:A:ASP:H	1:57:A:LYS:HE3	9	0.3
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	6	0.3
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	15	0.3
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	15	0.3
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	15	0.3
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	17	0.3
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	17	0.3
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	17	0.3
(1,3273)	1:151:A:PHE:HA	1:119:A:ARG:HB2	5	0.3
(1,3273)	1:151:A:PHE:HA	1:119:A:ARG:HB3	5	0.3
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD11	20	0.3
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD12	20	0.3
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD13	20	0.3
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD21	20	0.3
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD22	20	0.3
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD23	20	0.3
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	8	0.3
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	8	0.3
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	10	0.3
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	10	0.3
(1,3177)	1:122:A:PHE:HD1	1:203:A:PHE:HB2	8	0.3
(1,3177)	1:122:A:PHE:HD1	1:203:A:PHE:HB3	8	0.3
(1,3177)	1:122:A:PHE:HD2	1:203:A:PHE:HB2	8	0.3
(1,3177)	1:122:A:PHE:HD2	1:203:A:PHE:HB3	8	0.3
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG21	16	0.3
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG22	16	0.3
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG23	16	0.3
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	6	0.3
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	6	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	6	0.3
(1,3154)	1:34:A:ILE:H	1:34:A:ILE:HG21	15	0.3
(1,3154)	1:34:A:ILE:H	1:34:A:ILE:HG22	15	0.3
(1,3154)	1:34:A:ILE:H	1:34:A:ILE:HG23	15	0.3
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	19	0.3
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	19	0.3
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	19	0.3
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	6	0.3
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	6	0.3
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	6	0.3
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	13	0.3
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	13	0.3
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	13	0.3
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	19	0.3
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	19	0.3
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	19	0.3
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG2	16	0.3
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG3	16	0.3
(1,3091)	1:87:A:THR:H	1:88:A:ARG:HD2	14	0.3
(1,3091)	1:87:A:THR:H	1:88:A:ARG:HD3	14	0.3
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	14	0.3
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	14	0.3
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	14	0.3
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG11	14	0.3
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG12	14	0.3
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG13	14	0.3
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG21	14	0.3
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG22	14	0.3
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG23	14	0.3
(1,3053)	1:55:A:ALA:HB3	1:40:A:GLN:HA	15	0.3
(1,2917)	1:196:A:TYR:HA	1:195:A:ALA:H	20	0.3
(1,2868)	1:157:A:VAL:HA	1:160:A:GLN:HA	15	0.3
(1,2826)	1:59:A:ILE:HB	1:9:A:VAL:HB	15	0.3
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG21	9	0.3
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG22	9	0.3
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG23	9	0.3
(1,2682)	1:62:A:VAL:HB	1:9:A:VAL:HB	16	0.3
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG2	12	0.3
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG3	12	0.3
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB2	11	0.3
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB3	11	0.3
(1,2643)	1:187:A:ALA:HB3	1:190:A:TYR:HB2	20	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2643)	1:187:A:ALA:HB3	1:190:A:TYR:HB3	20	0.3
(1,2577)	1:166:A:ILE:HD13	1:160:A:GLN:HA	11	0.3
(1,2535)	1:101:A:ILE:HD11	1:97:A:ASP:HA	17	0.3
(1,2532)	1:183:A:ILE:HG22	1:182:A:PRO:HA	17	0.3
(1,2527)	1:142:A:VAL:HB	1:143:A:LEU:HA	5	0.3
(1,2527)	1:142:A:VAL:HB	1:143:A:LEU:HA	17	0.3
(1,2481)	1:187:A:ALA:HB3	1:190:A:TYR:HD1	1	0.3
(1,2481)	1:187:A:ALA:HB3	1:190:A:TYR:HD2	1	0.3
(1,2481)	1:187:A:ALA:HB3	1:190:A:TYR:HD1	6	0.3
(1,2481)	1:187:A:ALA:HB3	1:190:A:TYR:HD2	6	0.3
(1,2474)	1:101:A:ILE:HD13	1:127:A:TYR:HD1	17	0.3
(1,2474)	1:101:A:ILE:HD13	1:127:A:TYR:HD2	17	0.3
(1,2385)	1:34:A:ILE:HB	1:52:A:TYR:H	3	0.3
(1,2385)	1:34:A:ILE:HB	1:52:A:TYR:H	8	0.3
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	6	0.3
(1,2372)	1:96:A:MET:HE1	1:127:A:TYR:H	7	0.3
(1,2327)	1:160:A:GLN:HA	1:157:A:VAL:HA	15	0.3
(1,183)	1:50:A:LYS:H	1:52:A:TYR:HE1	16	0.3
(1,183)	1:50:A:LYS:H	1:52:A:TYR:HE2	16	0.3
(1,113)	1:176:A:TYR:HD1	1:182:A:PRO:HA	1	0.3
(1,113)	1:176:A:TYR:HD1	1:182:A:PRO:HA	16	0.3
(1,5681)	1:44:A:ARG:HE	1:50:A:LYS:H	2	0.29
(1,5602)	1:34:A:ILE:HG23	1:53:A:SER:H	5	0.29
(1,5602)	1:34:A:ILE:HG22	1:53:A:SER:H	15	0.29
(1,5578)	1:38:A:LYS:HA	1:40:A:GLN:H	3	0.29
(1,5572)	1:94:A:TRP:HD1	1:94:A:TRP:H	15	0.29
(1,5558)	1:12:A:VAL:HG12	1:17:A:ARG:H	6	0.29
(1,5534)	1:78:A:LEU:HB3	1:81:A:ALA:H	11	0.29
(1,5522)	1:9:A:VAL:HG22	1:23:A:ALA:H	12	0.29
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	11	0.29
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	11	0.29
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB2	10	0.29
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB3	10	0.29
(1,5436)	1:31:A:ASN:H	1:27:A:SER:HA	16	0.29
(1,5394)	1:59:A:ILE:H	1:56:A:ARG:H	13	0.29
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD1	19	0.29
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD2	19	0.29
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB2	11	0.29
(1,5366)	1:79:A:GLN:HE21	1:82:A:SER:HB3	11	0.29
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB2	12	0.29
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB3	12	0.29
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	15	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	15	0.29
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	15	0.29
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	15	0.29
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	15	0.29
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	15	0.29
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	19	0.29
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	19	0.29
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	19	0.29
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	19	0.29
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	19	0.29
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	19	0.29
(1,5290)	1:73:A:SER:H	1:69:A:GLU:HG2	4	0.29
(1,5290)	1:73:A:SER:H	1:69:A:GLU:HG3	4	0.29
(1,5247)	1:40:A:GLN:HE21	1:55:A:ALA:HA	4	0.29
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	2	0.29
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	2	0.29
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	2	0.29
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB2	1	0.29
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB3	1	0.29
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB2	13	0.29
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB3	13	0.29
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB2	17	0.29
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB3	17	0.29
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	17	0.29
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	17	0.29
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	17	0.29
(1,4975)	1:75:A:LYS:H	1:74:A:THR:HB	9	0.29
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD1	4	0.29
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD2	4	0.29
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD1	9	0.29
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD2	9	0.29
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	10	0.29
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	10	0.29
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	10	0.29
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	17	0.29
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	17	0.29
(1,3502)	1:22:A:PRO:HB2	1:21:A:TYR:HA	11	0.29
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	7	0.29
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	9	0.29
(1,3339)	1:123:A:LEU:HB3	1:150:A:LEU:HG	2	0.29
(1,3270)	1:80:A:LYS:HA	1:83:A:ILE:HG12	8	0.29
(1,3270)	1:80:A:LYS:HA	1:83:A:ILE:HG13	8	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3270)	1:182:A:PRO:HD2	1:146:A:LYS:HD2	18	0.29
(1,3270)	1:182:A:PRO:HD2	1:146:A:LYS:HD3	18	0.29
(1,3200)	1:184:A:LEU:HA	1:183:A:ILE:HG12	2	0.29
(1,3200)	1:184:A:LEU:HA	1:183:A:ILE:HG13	2	0.29
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG21	7	0.29
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG22	7	0.29
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG23	7	0.29
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG21	12	0.29
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG22	12	0.29
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG23	12	0.29
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	17	0.29
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	17	0.29
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	17	0.29
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	12	0.29
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	12	0.29
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	2	0.29
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	2	0.29
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	2	0.29
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	2	0.29
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	2	0.29
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	2	0.29
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	4	0.29
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	4	0.29
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	4	0.29
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	16	0.29
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	16	0.29
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	16	0.29
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG2	6	0.29
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG3	6	0.29
(1,3081)	1:8:A:VAL:H	1:7:A:LYS:HG2	16	0.29
(1,3081)	1:8:A:VAL:H	1:7:A:LYS:HG3	16	0.29
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG11	9	0.29
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG12	9	0.29
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG13	9	0.29
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG21	9	0.29
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG22	9	0.29
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG23	9	0.29
(1,3051)	1:34:A:ILE:HG23	1:53:A:SER:HA	6	0.29
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD2	8	0.29
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD3	8	0.29
(1,2975)	1:179:A:LEU:HD11	1:176:A:TYR:HA	9	0.29
(1,2975)	1:179:A:LEU:HD11	1:176:A:TYR:HA	13	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2975)	1:179:A:LEU:HD13	1:176:A:TYR:HA	19	0.29
(1,2917)	1:196:A:TYR:HA	1:195:A:ALA:H	3	0.29
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD11	14	0.29
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD12	14	0.29
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD13	14	0.29
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	2	0.29
(1,2842)	1:181:A:ILE:HD13	1:176:A:TYR:HB2	1	0.29
(1,2842)	1:181:A:ILE:HD13	1:176:A:TYR:HB3	1	0.29
(1,2841)	1:166:A:ILE:HD12	1:157:A:VAL:H	18	0.29
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD11	8	0.29
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD12	8	0.29
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD13	8	0.29
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD21	8	0.29
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD22	8	0.29
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD23	8	0.29
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD11	16	0.29
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD12	16	0.29
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD13	16	0.29
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD21	16	0.29
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD22	16	0.29
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD23	16	0.29
(1,2685)	1:67:A:LEU:HD12	1:71:A:GLU:HB2	10	0.29
(1,2685)	1:67:A:LEU:HD12	1:71:A:GLU:HB3	10	0.29
(1,2643)	1:187:A:ALA:HB2	1:190:A:TYR:HB2	16	0.29
(1,2643)	1:187:A:ALA:HB2	1:190:A:TYR:HB3	16	0.29
(1,2643)	1:187:A:ALA:HB3	1:190:A:TYR:HB2	18	0.29
(1,2643)	1:187:A:ALA:HB3	1:190:A:TYR:HB3	18	0.29
(1,2578)	1:64:A:ILE:HD11	1:62:A:VAL:HA	5	0.29
(1,2573)	1:187:A:ALA:HB2	1:186:A:SER:HB2	17	0.29
(1,2573)	1:187:A:ALA:HB2	1:186:A:SER:HB3	17	0.29
(1,2535)	1:101:A:ILE:HD12	1:96:A:MET:HA	8	0.29
(1,2532)	1:183:A:ILE:HG23	1:184:A:LEU:HA	14	0.29
(1,2489)	1:87:A:THR:HG22	1:84:A:PHE:HD1	5	0.29
(1,2489)	1:87:A:THR:HG22	1:84:A:PHE:HD2	5	0.29
(1,2481)	1:187:A:ALA:HB2	1:190:A:TYR:HD1	3	0.29
(1,2481)	1:187:A:ALA:HB2	1:190:A:TYR:HD2	3	0.29
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD11	19	0.29
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD12	19	0.29
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD13	19	0.29
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD21	19	0.29
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD22	19	0.29
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD23	19	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2466)	1:60:A:LYS:HD3	1:17:A:ARG:HE	20	0.29
(1,2403)	1:3:A:GLU:HB2	1:4:A:LEU:H	15	0.29
(1,2389)	1:42:A:LEU:HG	1:36:A:VAL:H	5	0.29
(1,2385)	1:34:A:ILE:HB	1:52:A:TYR:H	2	0.29
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	11	0.29
(1,750)	1:114:A:LEU:H	1:114:A:LEU:HG	18	0.29
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD21	3	0.29
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD22	3	0.29
(1,5848)	1:71:A:GLU:HB3	1:72:A:LEU:HG	10	0.28
(1,5803)	1:152:A:LYS:HD2	1:113:A:GLU:HB2	12	0.28
(1,5803)	1:152:A:LYS:HD2	1:113:A:GLU:HB3	12	0.28
(1,5602)	1:34:A:ILE:HG23	1:53:A:SER:H	6	0.28
(1,5593)	1:25:A:VAL:HG21	1:4:A:LEU:H	3	0.28
(1,5578)	1:153:A:LEU:HA	1:157:A:VAL:H	19	0.28
(1,5522)	1:9:A:VAL:HG22	1:23:A:ALA:H	5	0.28
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB2	14	0.28
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB3	14	0.28
(1,5471)	1:79:A:GLN:HE22	1:72:A:LEU:HB2	4	0.28
(1,5471)	1:79:A:GLN:HE22	1:72:A:LEU:HB3	4	0.28
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD2	15	0.28
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD3	15	0.28
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	2	0.28
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	2	0.28
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	2	0.28
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	2	0.28
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	2	0.28
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	2	0.28
(1,5451)	1:126:A:LEU:H	1:122:A:PHE:HB2	17	0.28
(1,5451)	1:126:A:LEU:H	1:122:A:PHE:HB3	17	0.28
(1,5430)	1:24:A:LEU:H	1:46:A:PHE:HE1	14	0.28
(1,5430)	1:24:A:LEU:H	1:46:A:PHE:HE2	14	0.28
(1,5428)	1:23:A:ALA:H	1:20:A:TRP:HZ3	13	0.28
(1,5394)	1:59:A:ILE:H	1:56:A:ARG:H	1	0.28
(1,5394)	1:59:A:ILE:H	1:56:A:ARG:H	8	0.28
(1,5394)	1:59:A:ILE:H	1:56:A:ARG:H	10	0.28
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG2	20	0.28
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG3	20	0.28
(1,5292)	1:18:A:THR:H	1:19:A:GLU:HG2	13	0.28
(1,5292)	1:18:A:THR:H	1:19:A:GLU:HG3	13	0.28
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	1	0.28
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	1	0.28
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	1	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	3	0.28
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	3	0.28
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	3	0.28
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG21	12	0.28
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG22	12	0.28
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG23	12	0.28
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG21	19	0.28
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG22	19	0.28
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG23	19	0.28
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	4	0.28
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	4	0.28
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	4	0.28
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	7	0.28
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	7	0.28
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	7	0.28
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG11	2	0.28
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG12	2	0.28
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG13	2	0.28
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG21	2	0.28
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG22	2	0.28
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG23	2	0.28
(1,5053)	1:78:A:LEU:H	1:75:A:LYS:HD2	1	0.28
(1,5053)	1:78:A:LEU:H	1:75:A:LYS:HD3	1	0.28
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	14	0.28
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	14	0.28
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG21	6	0.28
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG22	6	0.28
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG23	6	0.28
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG21	19	0.28
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG22	19	0.28
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG23	19	0.28
(1,4965)	1:84:A:PHE:H	1:88:A:ARG:HE	20	0.28
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD11	19	0.28
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD12	19	0.28
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD13	19	0.28
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD21	19	0.28
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD22	19	0.28
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD23	19	0.28
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	5	0.28
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	5	0.28
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	5	0.28
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	20	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	20	0.28
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	20	0.28
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	13	0.28
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	13	0.28
(1,4471)	1:72:A:LEU:HB2	1:70:A:SER:H	17	0.28
(1,4471)	1:72:A:LEU:HB3	1:70:A:SER:H	17	0.28
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	1	0.28
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	2	0.28
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	13	0.28
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	20	0.28
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB2	7	0.28
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB3	7	0.28
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB2	7	0.28
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB3	7	0.28
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB2	7	0.28
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB3	7	0.28
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB2	7	0.28
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB3	7	0.28
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB2	7	0.28
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB3	7	0.28
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB2	7	0.28
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB3	7	0.28
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB2	10	0.28
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB3	10	0.28
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB2	10	0.28
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB3	10	0.28
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB2	10	0.28
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB3	10	0.28
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB2	10	0.28
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB3	10	0.28
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB2	10	0.28
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB3	10	0.28
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB2	10	0.28
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB3	10	0.28
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	1	0.28
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	1	0.28
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	1	0.28
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	8	0.28
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	8	0.28
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	8	0.28
(1,3338)	1:100:A:GLU:HB2	1:101:A:ILE:HG12	14	0.28
(1,3338)	1:100:A:GLU:HB2	1:101:A:ILE:HG13	14	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	4	0.28
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	4	0.28
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	4	0.28
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD11	12	0.28
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD12	12	0.28
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD13	12	0.28
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD21	12	0.28
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD22	12	0.28
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD23	12	0.28
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD11	6	0.28
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD12	6	0.28
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD13	6	0.28
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD21	6	0.28
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD22	6	0.28
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD23	6	0.28
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD11	10	0.28
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD12	10	0.28
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD13	10	0.28
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD21	10	0.28
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD22	10	0.28
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD23	10	0.28
(1,3200)	1:184:A:LEU:HA	1:183:A:ILE:HG12	10	0.28
(1,3200)	1:184:A:LEU:HA	1:183:A:ILE:HG13	10	0.28
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG21	5	0.28
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG22	5	0.28
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG23	5	0.28
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	1	0.28
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	1	0.28
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	1	0.28
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	3	0.28
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	3	0.28
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	3	0.28
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG2	2	0.28
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG3	2	0.28
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG2	6	0.28
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG3	6	0.28
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	2	0.28
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	2	0.28
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	2	0.28
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	3	0.28
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	3	0.28
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	3	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	12	0.28
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	12	0.28
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	12	0.28
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG11	6	0.28
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG12	6	0.28
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG13	6	0.28
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG21	6	0.28
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG22	6	0.28
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG23	6	0.28
(1,3051)	1:34:A:ILE:HG23	1:53:A:SER:HA	19	0.28
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD2	14	0.28
(1,3037)	1:181:A:ILE:HB	1:182:A:PRO:HD3	14	0.28
(1,2988)	1:86:A:LYS:HG3	1:86:A:LYS:HA	14	0.28
(1,2917)	1:196:A:TYR:HA	1:195:A:ALA:H	6	0.28
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD11	11	0.28
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD12	11	0.28
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD13	11	0.28
(1,2868)	1:157:A:VAL:HA	1:160:A:GLN:HA	6	0.28
(1,2835)	1:126:A:LEU:HD23	1:130:A:MET:H	9	0.28
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD11	19	0.28
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD12	19	0.28
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD13	19	0.28
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD21	19	0.28
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD22	19	0.28
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD23	19	0.28
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG11	5	0.28
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG12	5	0.28
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG13	5	0.28
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG21	5	0.28
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG22	5	0.28
(1,2744)	1:195:A:ALA:HB1	1:192:A:VAL:HG23	5	0.28
(1,2717)	1:130:A:MET:HE1	1:198:A:LYS:HB2	4	0.28
(1,2717)	1:130:A:MET:HE1	1:198:A:LYS:HB3	4	0.28
(1,2717)	1:130:A:MET:HE3	1:198:A:LYS:HB2	14	0.28
(1,2717)	1:130:A:MET:HE3	1:198:A:LYS:HB3	14	0.28
(1,2685)	1:67:A:LEU:HD12	1:71:A:GLU:HB2	12	0.28
(1,2685)	1:67:A:LEU:HD12	1:71:A:GLU:HB3	12	0.28
(1,2546)	1:222:A:LEU:HG	1:222:A:LEU:HA	13	0.28
(1,2502)	1:42:A:LEU:HG	1:27:A:SER:HA	12	0.28
(1,2481)	1:187:A:ALA:HB3	1:190:A:TYR:HD1	20	0.28
(1,2481)	1:187:A:ALA:HB3	1:190:A:TYR:HD2	20	0.28
(1,2479)	1:194:A:THR:HG21	1:190:A:TYR:HD1	5	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2479)	1:194:A:THR:HG21	1:190:A:TYR:HD2	5	0.28
(1,2479)	1:194:A:THR:HG23	1:190:A:TYR:HD1	16	0.28
(1,2479)	1:194:A:THR:HG23	1:190:A:TYR:HD2	16	0.28
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD11	4	0.28
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD12	4	0.28
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD13	4	0.28
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD21	4	0.28
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD22	4	0.28
(1,2469)	1:84:A:PHE:HE1	1:24:A:LEU:HD23	4	0.28
(1,2443)	1:83:A:ILE:HD11	1:83:A:ILE:H	3	0.28
(1,2443)	1:83:A:ILE:HD12	1:83:A:ILE:H	13	0.28
(1,2422)	1:126:A:LEU:HD23	1:130:A:MET:H	9	0.28
(1,2403)	1:3:A:GLU:HB2	1:4:A:LEU:H	8	0.28
(1,2389)	1:42:A:LEU:HG	1:36:A:VAL:H	7	0.28
(1,2385)	1:34:A:ILE:HB	1:52:A:TYR:H	11	0.28
(1,2375)	1:60:A:LYS:HD2	1:61:A:GLU:H	11	0.28
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	2	0.28
(1,2327)	1:160:A:GLN:HA	1:157:A:VAL:HA	6	0.28
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB2	17	0.28
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB3	17	0.28
(1,128)	1:51:A:PHE:HD1	1:44:A:ARG:HG2	2	0.28
(1,128)	1:51:A:PHE:HD1	1:44:A:ARG:HG3	2	0.28
(1,5641)	1:37:A:LYS:HA	1:40:A:GLN:HE21	14	0.27
(1,5641)	1:37:A:LYS:HA	1:40:A:GLN:HE22	14	0.27
(1,5626)	1:64:A:ILE:HG21	1:82:A:SER:H	20	0.27
(1,5592)	1:43:A:VAL:HG11	1:44:A:ARG:H	4	0.27
(1,5578)	1:38:A:LYS:HA	1:40:A:GLN:H	4	0.27
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	13	0.27
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	13	0.27
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	19	0.27
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	19	0.27
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB2	1	0.27
(1,5475)	1:197:A:ARG:H	1:199:A:TYR:HB3	1	0.27
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	18	0.27
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE1	4	0.27
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE2	4	0.27
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG2	12	0.27
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG3	12	0.27
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG2	16	0.27
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG3	16	0.27
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	7	0.27
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	18	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	18	0.27
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	18	0.27
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	18	0.27
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	18	0.27
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	18	0.27
(1,5292)	1:18:A:THR:H	1:19:A:GLU:HG2	12	0.27
(1,5292)	1:18:A:THR:H	1:19:A:GLU:HG3	12	0.27
(1,5267)	1:160:A:GLN:HE21	1:175:A:ILE:HD11	5	0.27
(1,5267)	1:160:A:GLN:HE21	1:175:A:ILE:HD12	5	0.27
(1,5267)	1:160:A:GLN:HE21	1:175:A:ILE:HD13	5	0.27
(1,5226)	1:82:A:SER:H	1:78:A:LEU:HA	10	0.27
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	4	0.27
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	4	0.27
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG21	13	0.27
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG22	13	0.27
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG23	13	0.27
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	19	0.27
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	19	0.27
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	19	0.27
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG21	11	0.27
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG22	11	0.27
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG23	11	0.27
(1,4994)	1:222:A:LEU:H	1:222:A:LEU:HG	15	0.27
(1,4970)	1:64:A:ILE:H	1:62:A:VAL:HA	20	0.27
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD1	18	0.27
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD2	18	0.27
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	12	0.27
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	12	0.27
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	14	0.27
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	14	0.27
(1,3507)	1:67:A:LEU:H	1:65:A:LEU:HB2	14	0.27
(1,3507)	1:67:A:LEU:H	1:65:A:LEU:HB3	14	0.27
(1,3434)	1:181:A:ILE:HG12	1:146:A:LYS:HE2	15	0.27
(1,3434)	1:181:A:ILE:HG12	1:146:A:LYS:HE3	15	0.27
(1,3433)	1:12:A:VAL:HG12	1:17:A:ARG:HD2	10	0.27
(1,3433)	1:12:A:VAL:HG12	1:17:A:ARG:HD3	10	0.27
(1,3431)	1:36:A:VAL:HG11	1:35:A:THR:HG21	10	0.27
(1,3431)	1:36:A:VAL:HG11	1:35:A:THR:HG22	10	0.27
(1,3431)	1:36:A:VAL:HG11	1:35:A:THR:HG23	10	0.27
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG2	3	0.27
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG3	3	0.27
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG2	3	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG3	3	0.27
(1,3339)	1:123:A:LEU:HB3	1:150:A:LEU:HG	10	0.27
(1,3330)	1:90:A:VAL:HB	1:91:A:PRO:HG2	3	0.27
(1,3330)	1:90:A:VAL:HB	1:91:A:PRO:HG3	3	0.27
(1,3270)	1:144:A:GLY:HA3	1:146:A:LYS:HD2	5	0.27
(1,3270)	1:144:A:GLY:HA3	1:146:A:LYS:HD3	5	0.27
(1,3221)	1:170:A:ALA:HA	1:173:A:LYS:HD2	8	0.27
(1,3221)	1:170:A:ALA:HA	1:173:A:LYS:HD3	8	0.27
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	11	0.27
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	11	0.27
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	11	0.27
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	18	0.27
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	18	0.27
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	18	0.27
(1,3091)	1:129:A:PHE:H	1:88:A:ARG:HD2	19	0.27
(1,3091)	1:129:A:PHE:H	1:88:A:ARG:HD3	19	0.27
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	17	0.27
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	17	0.27
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	17	0.27
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	20	0.27
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	20	0.27
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	20	0.27
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	8	0.27
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	8	0.27
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	8	0.27
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	17	0.27
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	17	0.27
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	17	0.27
(1,3051)	1:43:A:VAL:HG23	1:53:A:SER:HA	4	0.27
(1,2988)	1:86:A:LYS:HG3	1:86:A:LYS:HA	6	0.27
(1,2988)	1:86:A:LYS:HG3	1:86:A:LYS:HA	18	0.27
(1,2988)	1:86:A:LYS:HG3	1:86:A:LYS:HA	19	0.27
(1,2947)	1:30:A:CYS:HB2	1:29:A:SER:HB2	18	0.27
(1,2947)	1:30:A:CYS:HB2	1:29:A:SER:HB3	18	0.27
(1,2920)	1:54:A:ILE:HD13	1:52:A:TYR:HA	9	0.27
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD11	5	0.27
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD12	5	0.27
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD13	5	0.27
(1,2835)	1:126:A:LEU:HD23	1:130:A:MET:H	2	0.27
(1,2699)	1:8:A:VAL:HG12	1:85:A:LEU:HB2	4	0.27
(1,2699)	1:8:A:VAL:HG12	1:85:A:LEU:HB3	4	0.27
(1,2699)	1:8:A:VAL:HG11	1:85:A:LEU:HB2	19	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2699)	1:8:A:VAL:HG11	1:85:A:LEU:HB3	19	0.27
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB2	3	0.27
(1,2649)	1:64:A:ILE:HD13	1:63:A:ASP:HB3	3	0.27
(1,2607)	1:137:A:ILE:HD13	1:141:A:PRO:HD2	2	0.27
(1,2607)	1:137:A:ILE:HD13	1:141:A:PRO:HD3	2	0.27
(1,2552)	1:101:A:ILE:HG21	1:102:A:LEU:HA	10	0.27
(1,2551)	1:98:A:ILE:HG22	1:98:A:ILE:HA	11	0.27
(1,2535)	1:101:A:ILE:HD12	1:96:A:MET:HA	18	0.27
(1,2498)	1:46:A:PHE:HD1	1:85:A:LEU:HD11	17	0.27
(1,2498)	1:46:A:PHE:HD1	1:85:A:LEU:HD12	17	0.27
(1,2498)	1:46:A:PHE:HD1	1:85:A:LEU:HD13	17	0.27
(1,2498)	1:46:A:PHE:HD1	1:85:A:LEU:HD21	17	0.27
(1,2498)	1:46:A:PHE:HD1	1:85:A:LEU:HD22	17	0.27
(1,2498)	1:46:A:PHE:HD1	1:85:A:LEU:HD23	17	0.27
(1,2497)	1:46:A:PHE:HD1	1:85:A:LEU:HD11	17	0.27
(1,2497)	1:46:A:PHE:HD1	1:85:A:LEU:HD12	17	0.27
(1,2497)	1:46:A:PHE:HD1	1:85:A:LEU:HD13	17	0.27
(1,2497)	1:46:A:PHE:HD1	1:85:A:LEU:HD21	17	0.27
(1,2497)	1:46:A:PHE:HD1	1:85:A:LEU:HD22	17	0.27
(1,2497)	1:46:A:PHE:HD1	1:85:A:LEU:HD23	17	0.27
(1,2471)	1:12:A:VAL:HG12	1:17:A:ARG:HE	12	0.27
(1,2422)	1:126:A:LEU:HD23	1:130:A:MET:H	2	0.27
(1,2418)	1:200:A:LEU:HD23	1:199:A:TYR:H	1	0.27
(1,2411)	1:88:A:ARG:HD2	1:88:A:ARG:H	14	0.27
(1,2400)	1:34:A:ILE:HD13	1:52:A:TYR:H	16	0.27
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	8	0.27
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	14	0.27
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB2	1	0.27
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB3	1	0.27
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG21	15	0.27
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG22	15	0.27
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG23	15	0.27
(1,750)	1:114:A:LEU:H	1:114:A:LEU:HG	11	0.27
(1,128)	1:51:A:PHE:HD1	1:133:A:ARG:HB2	5	0.27
(1,128)	1:51:A:PHE:HD1	1:133:A:ARG:HB3	5	0.27
(1,111)	1:20:A:TRP:HZ2	1:67:A:LEU:HB2	14	0.27
(1,111)	1:20:A:TRP:HZ2	1:67:A:LEU:HB3	14	0.27
(1,5842)	1:111:A:GLU:H	1:111:A:GLU:HG2	13	0.26
(1,5842)	1:111:A:GLU:H	1:111:A:GLU:HG3	13	0.26
(1,5807)	1:99:A:SER:H	1:97:A:ASP:HB2	17	0.26
(1,5807)	1:99:A:SER:H	1:97:A:ASP:HB3	17	0.26
(1,5785)	1:111:A:GLU:H	1:111:A:GLU:HG2	13	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5785)	1:111:A:GLU:H	1:111:A:GLU:HG3	13	0.26
(1,5578)	1:38:A:LYS:HA	1:40:A:GLN:H	9	0.26
(1,5553)	1:148:A:LEU:HG	1:142:A:VAL:H	20	0.26
(1,5522)	1:9:A:VAL:HG21	1:23:A:ALA:H	13	0.26
(1,5488)	1:195:A:ALA:H	1:191:A:ASN:HD21	16	0.26
(1,5488)	1:195:A:ALA:H	1:191:A:ASN:HD22	16	0.26
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD2	13	0.26
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD3	13	0.26
(1,5430)	1:24:A:LEU:H	1:52:A:TYR:HE1	11	0.26
(1,5430)	1:24:A:LEU:H	1:52:A:TYR:HE2	11	0.26
(1,5404)	1:89:A:VAL:H	1:89:A:VAL:HB	20	0.26
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG12	10	0.26
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG13	10	0.26
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB1	1	0.26
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB2	1	0.26
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB3	1	0.26
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	15	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	8	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	8	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	8	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	8	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	8	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	8	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	9	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	9	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	9	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	9	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	9	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	9	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	16	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	16	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	16	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	16	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	16	0.26
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	16	0.26
(1,5247)	1:40:A:GLN:HE21	1:55:A:ALA:HA	13	0.26
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	11	0.26
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	11	0.26
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	11	0.26
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	6	0.26
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	6	0.26
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB2	3	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB3	3	0.26
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG21	6	0.26
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG22	6	0.26
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG23	6	0.26
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	14	0.26
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	14	0.26
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	14	0.26
(1,5070)	1:40:A:GLN:H	1:56:A:ARG:H	15	0.26
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD11	8	0.26
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD12	8	0.26
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD13	8	0.26
(1,5053)	1:78:A:LEU:H	1:80:A:LYS:HG2	9	0.26
(1,5053)	1:78:A:LEU:H	1:80:A:LYS:HG3	9	0.26
(1,5020)	1:85:A:LEU:H	1:88:A:ARG:HE	4	0.26
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG21	3	0.26
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG22	3	0.26
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG23	3	0.26
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG21	4	0.26
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG22	4	0.26
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG23	4	0.26
(1,4970)	1:64:A:ILE:H	1:65:A:LEU:HA	2	0.26
(1,4970)	1:64:A:ILE:H	1:65:A:LEU:HA	14	0.26
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	8	0.26
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	8	0.26
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	8	0.26
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	17	0.26
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	17	0.26
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	17	0.26
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	18	0.26
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	18	0.26
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	18	0.26
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	18	0.26
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	18	0.26
(1,3544)	1:97:A:ASP:HB3	1:99:A:SER:HA	10	0.26
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB2	7	0.26
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB3	7	0.26
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB2	7	0.26
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB3	7	0.26
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	10	0.26
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	12	0.26
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	18	0.26
(1,3490)	1:16:A:GLU:H	1:14:A:ALA:HA	2	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3477)	1:64:A:ILE:H	1:65:A:LEU:HB2	9	0.26
(1,3477)	1:64:A:ILE:H	1:65:A:LEU:HB3	9	0.26
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB2	9	0.26
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB3	9	0.26
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB2	9	0.26
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB3	9	0.26
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB2	9	0.26
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB3	9	0.26
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB2	9	0.26
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB3	9	0.26
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB2	9	0.26
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB3	9	0.26
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB2	9	0.26
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB3	9	0.26
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG2	15	0.26
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG3	15	0.26
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG2	15	0.26
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG3	15	0.26
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG2	15	0.26
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG3	15	0.26
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG2	15	0.26
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG3	15	0.26
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG2	15	0.26
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG3	15	0.26
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG2	15	0.26
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG3	15	0.26
(1,3439)	1:102:A:LEU:HD23	1:147:A:ASP:HB2	2	0.26
(1,3439)	1:102:A:LEU:HD23	1:147:A:ASP:HB3	2	0.26
(1,3351)	1:61:A:GLU:HB2	1:60:A:LYS:HB2	10	0.26
(1,3351)	1:61:A:GLU:HB2	1:60:A:LYS:HB3	10	0.26
(1,3351)	1:61:A:GLU:HB3	1:60:A:LYS:HB2	10	0.26
(1,3351)	1:61:A:GLU:HB3	1:60:A:LYS:HB3	10	0.26
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	20	0.26
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	20	0.26
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	20	0.26
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	1	0.26
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	1	0.26
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	1	0.26
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD11	3	0.26
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD12	3	0.26
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD13	3	0.26
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD21	3	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD22	3	0.26
(1,3224)	1:3:A:GLU:HA	1:5:A:LEU:HD23	3	0.26
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD11	9	0.26
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD12	9	0.26
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD13	9	0.26
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD21	9	0.26
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD22	9	0.26
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD23	9	0.26
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	7	0.26
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	7	0.26
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	3	0.26
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	3	0.26
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	3	0.26
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	20	0.26
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	20	0.26
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	20	0.26
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	11	0.26
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	11	0.26
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	11	0.26
(1,3091)	1:87:A:THR:H	1:88:A:ARG:HD2	2	0.26
(1,3091)	1:87:A:THR:H	1:88:A:ARG:HD3	2	0.26
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG11	5	0.26
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG12	5	0.26
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG13	5	0.26
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG21	5	0.26
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG22	5	0.26
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG23	5	0.26
(1,3051)	1:34:A:ILE:HG21	1:53:A:SER:HA	16	0.26
(1,2917)	1:196:A:TYR:HA	1:195:A:ALA:H	9	0.26
(1,2905)	1:126:A:LEU:HD12	1:199:A:TYR:HD1	17	0.26
(1,2905)	1:126:A:LEU:HD12	1:199:A:TYR:HD2	17	0.26
(1,2841)	1:166:A:ILE:HD11	1:157:A:VAL:H	1	0.26
(1,2804)	1:171:A:VAL:HG13	1:175:A:ILE:HD11	17	0.26
(1,2804)	1:171:A:VAL:HG13	1:175:A:ILE:HD12	17	0.26
(1,2804)	1:171:A:VAL:HG13	1:175:A:ILE:HD13	17	0.26
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG11	4	0.26
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG12	4	0.26
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG13	4	0.26
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG21	4	0.26
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG22	4	0.26
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG23	4	0.26
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD11	15	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD12	15	0.26
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD13	15	0.26
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD21	15	0.26
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD22	15	0.26
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD23	15	0.26
(1,2699)	1:8:A:VAL:HG11	1:85:A:LEU:HB2	8	0.26
(1,2699)	1:8:A:VAL:HG11	1:85:A:LEU:HB3	8	0.26
(1,2685)	1:67:A:LEU:HD13	1:71:A:GLU:HB2	3	0.26
(1,2685)	1:67:A:LEU:HD13	1:71:A:GLU:HB3	3	0.26
(1,2643)	1:187:A:ALA:HB1	1:190:A:TYR:HB2	13	0.26
(1,2643)	1:187:A:ALA:HB1	1:190:A:TYR:HB3	13	0.26
(1,2577)	1:166:A:ILE:HD12	1:161:A:GLY:HA2	12	0.26
(1,2577)	1:166:A:ILE:HD12	1:161:A:GLY:HA3	12	0.26
(1,2562)	1:72:A:LEU:HG	1:69:A:GLU:HA	2	0.26
(1,2562)	1:72:A:LEU:HG	1:69:A:GLU:HA	3	0.26
(1,2551)	1:98:A:ILE:HG21	1:98:A:ILE:HA	1	0.26
(1,2551)	1:98:A:ILE:HG21	1:98:A:ILE:HA	2	0.26
(1,2551)	1:98:A:ILE:HG22	1:98:A:ILE:HA	14	0.26
(1,2551)	1:98:A:ILE:HG23	1:98:A:ILE:HA	18	0.26
(1,2551)	1:98:A:ILE:HG23	1:98:A:ILE:HA	19	0.26
(1,2489)	1:87:A:THR:HG21	1:84:A:PHE:HD1	8	0.26
(1,2489)	1:87:A:THR:HG21	1:84:A:PHE:HD2	8	0.26
(1,2489)	1:87:A:THR:HG23	1:84:A:PHE:HD1	12	0.26
(1,2489)	1:87:A:THR:HG23	1:84:A:PHE:HD2	12	0.26
(1,2481)	1:187:A:ALA:HB2	1:190:A:TYR:HD1	7	0.26
(1,2481)	1:187:A:ALA:HB2	1:190:A:TYR:HD2	7	0.26
(1,2481)	1:187:A:ALA:HB1	1:190:A:TYR:HD1	13	0.26
(1,2481)	1:187:A:ALA:HB1	1:190:A:TYR:HD2	13	0.26
(1,2480)	1:130:A:MET:HE2	1:199:A:TYR:HD1	4	0.26
(1,2480)	1:130:A:MET:HE2	1:199:A:TYR:HD2	4	0.26
(1,2426)	1:101:A:ILE:HG21	1:103:A:GLU:H	14	0.26
(1,2306)	1:81:A:ALA:HA	1:78:A:LEU:HA	12	0.26
(1,1679)	1:54:A:ILE:HG21	1:54:A:ILE:HD11	5	0.26
(1,1679)	1:54:A:ILE:HG21	1:54:A:ILE:HD12	5	0.26
(1,1679)	1:54:A:ILE:HG21	1:54:A:ILE:HD13	5	0.26
(1,1679)	1:54:A:ILE:HG22	1:54:A:ILE:HD11	5	0.26
(1,1679)	1:54:A:ILE:HG22	1:54:A:ILE:HD12	5	0.26
(1,1679)	1:54:A:ILE:HG22	1:54:A:ILE:HD13	5	0.26
(1,1679)	1:54:A:ILE:HG23	1:54:A:ILE:HD11	5	0.26
(1,1679)	1:54:A:ILE:HG23	1:54:A:ILE:HD12	5	0.26
(1,1679)	1:54:A:ILE:HG23	1:54:A:ILE:HD13	5	0.26
(1,750)	1:114:A:LEU:H	1:114:A:LEU:HG	12	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD11	3	0.26
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD12	3	0.26
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD13	3	0.26
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD21	3	0.26
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD22	3	0.26
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD23	3	0.26
(1,113)	1:176:A:TYR:HD1	1:182:A:PRO:HA	11	0.26
(1,113)	1:176:A:TYR:HD1	1:182:A:PRO:HA	14	0.26
(1,5848)	1:113:A:GLU:HB3	1:114:A:LEU:HG	7	0.25
(1,5842)	1:111:A:GLU:H	1:111:A:GLU:HG2	11	0.25
(1,5842)	1:111:A:GLU:H	1:111:A:GLU:HG3	11	0.25
(1,5828)	1:108:A:LYS:H	1:108:A:LYS:HB2	9	0.25
(1,5828)	1:108:A:LYS:H	1:108:A:LYS:HB3	9	0.25
(1,5788)	1:98:A:ILE:HD13	1:105:A:SER:HA	12	0.25
(1,5785)	1:111:A:GLU:H	1:111:A:GLU:HG2	11	0.25
(1,5785)	1:111:A:GLU:H	1:111:A:GLU:HG3	11	0.25
(1,5549)	1:204:A:GLU:HB2	1:201:A:TYR:H	8	0.25
(1,5536)	1:183:A:ILE:HG13	1:188:A:ALA:H	17	0.25
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	7	0.25
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	7	0.25
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	9	0.25
(1,5471)	1:79:A:GLN:HE21	1:72:A:LEU:HB2	1	0.25
(1,5471)	1:79:A:GLN:HE21	1:72:A:LEU:HB3	1	0.25
(1,5416)	1:10:A:SER:H	1:61:A:GLU:HB2	16	0.25
(1,5416)	1:10:A:SER:H	1:61:A:GLU:HB3	16	0.25
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG12	9	0.25
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG13	9	0.25
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD1	13	0.25
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD2	13	0.25
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG2	13	0.25
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG3	13	0.25
(1,5373)	1:134:A:GLY:H	1:44:A:ARG:HD2	15	0.25
(1,5373)	1:134:A:GLY:H	1:44:A:ARG:HD3	15	0.25
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB2	17	0.25
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB3	17	0.25
(1,5331)	1:75:A:LYS:H	1:71:A:GLU:HG2	8	0.25
(1,5331)	1:75:A:LYS:H	1:71:A:GLU:HG3	8	0.25
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	1	0.25
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	1	0.25
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	1	0.25
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	1	0.25
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	1	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	1	0.25
(1,5290)	1:73:A:SER:H	1:69:A:GLU:HG2	17	0.25
(1,5290)	1:73:A:SER:H	1:69:A:GLU:HG3	17	0.25
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	2	0.25
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	2	0.25
(1,5203)	1:200:A:LEU:H	1:195:A:ALA:HB1	11	0.25
(1,5203)	1:200:A:LEU:H	1:195:A:ALA:HB2	11	0.25
(1,5203)	1:200:A:LEU:H	1:195:A:ALA:HB3	11	0.25
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	12	0.25
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	12	0.25
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	12	0.25
(1,5151)	1:105:A:SER:H	1:105:A:SER:HB2	14	0.25
(1,5151)	1:105:A:SER:H	1:105:A:SER:HB3	14	0.25
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG21	8	0.25
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG22	8	0.25
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG23	8	0.25
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD11	18	0.25
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD12	18	0.25
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD13	18	0.25
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	18	0.25
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	18	0.25
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	18	0.25
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG11	1	0.25
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG12	1	0.25
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG13	1	0.25
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG21	1	0.25
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG22	1	0.25
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG23	1	0.25
(1,5053)	1:78:A:LEU:H	1:75:A:LYS:HD2	2	0.25
(1,5053)	1:78:A:LEU:H	1:75:A:LYS:HD3	2	0.25
(1,5020)	1:85:A:LEU:H	1:88:A:ARG:HE	16	0.25
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG21	1	0.25
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG22	1	0.25
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG23	1	0.25
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG21	14	0.25
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG22	14	0.25
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG23	14	0.25
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB2	9	0.25
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB3	9	0.25
(1,4975)	1:75:A:LYS:H	1:74:A:THR:HB	12	0.25
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD1	3	0.25
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD2	3	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	1	0.25
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	1	0.25
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	1	0.25
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	5	0.25
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	5	0.25
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	4	0.25
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	5	0.25
(1,3448)	1:43:A:VAL:HG12	1:41:A:CYS:HB2	7	0.25
(1,3448)	1:43:A:VAL:HG12	1:41:A:CYS:HB3	7	0.25
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG2	8	0.25
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG3	8	0.25
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG2	8	0.25
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG3	8	0.25
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG2	8	0.25
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG3	8	0.25
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG2	8	0.25
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG3	8	0.25
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG2	8	0.25
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG3	8	0.25
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG2	8	0.25
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG3	8	0.25
(1,3434)	1:181:A:ILE:HG12	1:146:A:LYS:HE2	17	0.25
(1,3434)	1:181:A:ILE:HG12	1:146:A:LYS:HE3	17	0.25
(1,3325)	1:41:A:CYS:HB2	1:59:A:ILE:HD11	7	0.25
(1,3325)	1:41:A:CYS:HB2	1:59:A:ILE:HD12	7	0.25
(1,3325)	1:41:A:CYS:HB2	1:59:A:ILE:HD13	7	0.25
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD11	13	0.25
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD12	13	0.25
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD13	13	0.25
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD21	13	0.25
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD22	13	0.25
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD23	13	0.25
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD11	15	0.25
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD12	15	0.25
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD13	15	0.25
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD21	15	0.25
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD22	15	0.25
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD23	15	0.25
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	12	0.25
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	12	0.25
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	12	0.25
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	1	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	1	0.25
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	1	0.25
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	5	0.25
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	5	0.25
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	5	0.25
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	15	0.25
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	15	0.25
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	15	0.25
(1,3097)	1:177:A:MET:H	1:174:A:GLN:HG2	18	0.25
(1,3097)	1:177:A:MET:H	1:174:A:GLN:HG3	18	0.25
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	9	0.25
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	9	0.25
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	9	0.25
(1,3051)	1:43:A:VAL:HG23	1:53:A:SER:HA	11	0.25
(1,3037)	1:146:A:LYS:HG2	1:182:A:PRO:HD2	6	0.25
(1,3037)	1:146:A:LYS:HG2	1:182:A:PRO:HD3	6	0.25
(1,2998)	1:204:A:GLU:HB3	1:197:A:ARG:HA	15	0.25
(1,2988)	1:86:A:LYS:HG3	1:86:A:LYS:HA	4	0.25
(1,2988)	1:86:A:LYS:HG3	1:86:A:LYS:HA	5	0.25
(1,2988)	1:86:A:LYS:HG3	1:86:A:LYS:HA	13	0.25
(1,2988)	1:86:A:LYS:HG3	1:86:A:LYS:HA	16	0.25
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB2	12	0.25
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB3	12	0.25
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB2	16	0.25
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB3	16	0.25
(1,2958)	1:72:A:LEU:H	1:70:A:SER:HB2	3	0.25
(1,2958)	1:72:A:LEU:H	1:70:A:SER:HB3	3	0.25
(1,2917)	1:196:A:TYR:HA	1:195:A:ALA:H	13	0.25
(1,2917)	1:196:A:TYR:HA	1:201:A:TYR:H	18	0.25
(1,2866)	1:210:A:ALA:HA	1:212:A:ILE:HG12	4	0.25
(1,2866)	1:210:A:ALA:HA	1:212:A:ILE:HG13	4	0.25
(1,2840)	1:22:A:PRO:HA	1:81:A:ALA:HB1	10	0.25
(1,2840)	1:22:A:PRO:HA	1:81:A:ALA:HB2	10	0.25
(1,2840)	1:22:A:PRO:HA	1:81:A:ALA:HB3	10	0.25
(1,2835)	1:126:A:LEU:HD21	1:130:A:MET:H	6	0.25
(1,2804)	1:171:A:VAL:HG11	1:157:A:VAL:HG11	10	0.25
(1,2804)	1:171:A:VAL:HG11	1:157:A:VAL:HG12	10	0.25
(1,2804)	1:171:A:VAL:HG11	1:157:A:VAL:HG13	10	0.25
(1,2804)	1:171:A:VAL:HG11	1:157:A:VAL:HG21	10	0.25
(1,2804)	1:171:A:VAL:HG11	1:157:A:VAL:HG22	10	0.25
(1,2804)	1:171:A:VAL:HG11	1:157:A:VAL:HG23	10	0.25
(1,2717)	1:130:A:MET:HE2	1:133:A:ARG:HG2	17	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2717)	1:130:A:MET:HE2	1:133:A:ARG:HG3	17	0.25
(1,2575)	1:64:A:ILE:HG22	1:78:A:LEU:HA	4	0.25
(1,2575)	1:64:A:ILE:HG21	1:82:A:SER:HA	14	0.25
(1,2571)	1:130:A:MET:HE3	1:198:A:LYS:HA	19	0.25
(1,2554)	1:175:A:ILE:HD13	1:153:A:LEU:HA	15	0.25
(1,2551)	1:98:A:ILE:HG22	1:98:A:ILE:HA	3	0.25
(1,2551)	1:98:A:ILE:HG21	1:98:A:ILE:HA	4	0.25
(1,2551)	1:98:A:ILE:HG21	1:98:A:ILE:HA	6	0.25
(1,2551)	1:98:A:ILE:HG21	1:98:A:ILE:HA	10	0.25
(1,2551)	1:98:A:ILE:HG23	1:98:A:ILE:HA	12	0.25
(1,2551)	1:98:A:ILE:HG22	1:98:A:ILE:HA	20	0.25
(1,2531)	1:142:A:VAL:HG11	1:147:A:ASP:HA	3	0.25
(1,2474)	1:101:A:ILE:HD13	1:127:A:TYR:HD1	1	0.25
(1,2474)	1:101:A:ILE:HD13	1:127:A:TYR:HD2	1	0.25
(1,2428)	1:64:A:ILE:HD13	1:65:A:LEU:H	18	0.25
(1,2425)	1:54:A:ILE:HG23	1:12:A:VAL:H	7	0.25
(1,2422)	1:126:A:LEU:HD21	1:130:A:MET:H	6	0.25
(1,2411)	1:88:A:ARG:HD2	1:88:A:ARG:H	1	0.25
(1,2411)	1:88:A:ARG:HD2	1:88:A:ARG:H	15	0.25
(1,2374)	1:54:A:ILE:HB	1:53:A:SER:H	20	0.25
(1,2289)	1:119:A:ARG:HA	1:117:A:GLU:H	19	0.25
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD11	2	0.25
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD12	2	0.25
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD13	2	0.25
(1,1679)	1:54:A:ILE:HG21	1:54:A:ILE:HD11	7	0.25
(1,1679)	1:54:A:ILE:HG21	1:54:A:ILE:HD12	7	0.25
(1,1679)	1:54:A:ILE:HG21	1:54:A:ILE:HD13	7	0.25
(1,1679)	1:54:A:ILE:HG22	1:54:A:ILE:HD11	7	0.25
(1,1679)	1:54:A:ILE:HG22	1:54:A:ILE:HD12	7	0.25
(1,1679)	1:54:A:ILE:HG22	1:54:A:ILE:HD13	7	0.25
(1,1679)	1:54:A:ILE:HG23	1:54:A:ILE:HD11	7	0.25
(1,1679)	1:54:A:ILE:HG23	1:54:A:ILE:HD12	7	0.25
(1,1679)	1:54:A:ILE:HG23	1:54:A:ILE:HD13	7	0.25
(1,750)	1:114:A:LEU:H	1:114:A:LEU:HG	1	0.25
(1,183)	1:50:A:LYS:H	1:52:A:TYR:HE1	11	0.25
(1,183)	1:50:A:LYS:H	1:52:A:TYR:HE2	11	0.25
(1,168)	1:190:A:TYR:HE1	1:191:A:ASN:HD21	18	0.25
(1,168)	1:190:A:TYR:HE1	1:191:A:ASN:HD22	18	0.25
(1,150)	1:127:A:TYR:HE2	1:141:A:PRO:HG2	5	0.25
(1,150)	1:127:A:TYR:HE2	1:141:A:PRO:HG3	5	0.25
(1,128)	1:51:A:PHE:HD1	1:44:A:ARG:HG2	19	0.25
(1,128)	1:51:A:PHE:HD1	1:44:A:ARG:HG3	19	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5848)	1:71:A:GLU:HB3	1:72:A:LEU:HG	13	0.24
(1,5811)	1:67:A:LEU:HD21	1:68:A:PRO:HD2	19	0.24
(1,5811)	1:67:A:LEU:HD21	1:68:A:PRO:HD3	19	0.24
(1,5789)	1:108:A:LYS:H	1:107:A:SER:HB2	17	0.24
(1,5789)	1:108:A:LYS:H	1:107:A:SER:HB3	17	0.24
(1,5788)	1:98:A:ILE:HD12	1:105:A:SER:HA	13	0.24
(1,5697)	1:139:A:LYS:HD3	1:138:A:ASN:HD21	20	0.24
(1,5697)	1:139:A:LYS:HD3	1:138:A:ASN:HD22	20	0.24
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD21	8	0.24
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD22	8	0.24
(1,5578)	1:38:A:LYS:HA	1:40:A:GLN:H	10	0.24
(1,5557)	1:124:A:GLN:HB3	1:95:A:LYS:H	13	0.24
(1,5522)	1:9:A:VAL:HG21	1:23:A:ALA:H	11	0.24
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	3	0.24
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	3	0.24
(1,5488)	1:195:A:ALA:H	1:191:A:ASN:HD21	4	0.24
(1,5488)	1:195:A:ALA:H	1:191:A:ASN:HD22	4	0.24
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	16	0.24
(1,5428)	1:23:A:ALA:H	1:20:A:TRP:HZ3	2	0.24
(1,5417)	1:10:A:SER:H	1:22:A:PRO:HB2	18	0.24
(1,5417)	1:10:A:SER:H	1:22:A:PRO:HB3	18	0.24
(1,5416)	1:10:A:SER:H	1:22:A:PRO:HB2	18	0.24
(1,5416)	1:10:A:SER:H	1:22:A:PRO:HB3	18	0.24
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE1	1	0.24
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE2	1	0.24
(1,5394)	1:59:A:ILE:H	1:56:A:ARG:H	20	0.24
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB2	14	0.24
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB3	14	0.24
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB2	18	0.24
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB3	18	0.24
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	9	0.24
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	2	0.24
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	2	0.24
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	2	0.24
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	2	0.24
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	2	0.24
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	2	0.24
(1,5273)	1:135:A:THR:H	1:136:A:PRO:HB2	3	0.24
(1,5273)	1:135:A:THR:H	1:136:A:PRO:HB3	3	0.24
(1,5235)	1:70:A:SER:H	1:69:A:GLU:HB2	19	0.24
(1,5235)	1:70:A:SER:H	1:69:A:GLU:HB3	19	0.24
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	6	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	6	0.24
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	6	0.24
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	14	0.24
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	14	0.24
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	14	0.24
(1,5145)	1:52:A:TYR:HD2	1:52:A:TYR:H	9	0.24
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD11	14	0.24
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD12	14	0.24
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD13	14	0.24
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG11	19	0.24
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG12	19	0.24
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG13	19	0.24
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG21	19	0.24
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG22	19	0.24
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG23	19	0.24
(1,5128)	1:197:A:ARG:H	1:200:A:LEU:HG	20	0.24
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG11	5	0.24
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG12	5	0.24
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG13	5	0.24
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG21	5	0.24
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG22	5	0.24
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG23	5	0.24
(1,5103)	1:123:A:LEU:H	1:119:A:ARG:HB2	10	0.24
(1,5103)	1:123:A:LEU:H	1:119:A:ARG:HB3	10	0.24
(1,4970)	1:64:A:ILE:H	1:62:A:VAL:HA	7	0.24
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	3	0.24
(1,3490)	1:16:A:GLU:H	1:14:A:ALA:HA	15	0.24
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB2	4	0.24
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB3	4	0.24
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB2	4	0.24
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB3	4	0.24
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB2	4	0.24
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB3	4	0.24
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB2	4	0.24
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB3	4	0.24
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB2	4	0.24
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB3	4	0.24
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB2	4	0.24
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB3	4	0.24
(1,3431)	1:83:A:ILE:HG23	1:87:A:THR:HG21	3	0.24
(1,3431)	1:83:A:ILE:HG23	1:87:A:THR:HG22	3	0.24
(1,3431)	1:83:A:ILE:HG23	1:87:A:THR:HG23	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3402)	1:35:A:THR:HG22	1:36:A:VAL:HB	12	0.24
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	4	0.24
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	4	0.24
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	4	0.24
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	16	0.24
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	16	0.24
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	16	0.24
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	20	0.24
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	20	0.24
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	20	0.24
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG12	7	0.24
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG13	7	0.24
(1,3270)	1:144:A:GLY:HA3	1:146:A:LYS:HD2	16	0.24
(1,3270)	1:144:A:GLY:HA3	1:146:A:LYS:HD3	16	0.24
(1,3259)	1:56:A:ARG:HA	1:56:A:ARG:HD2	9	0.24
(1,3259)	1:56:A:ARG:HA	1:56:A:ARG:HD3	9	0.24
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD11	4	0.24
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD12	4	0.24
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD13	4	0.24
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD21	4	0.24
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD22	4	0.24
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD23	4	0.24
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD11	15	0.24
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD12	15	0.24
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD13	15	0.24
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD21	15	0.24
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD22	15	0.24
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD23	15	0.24
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD11	2	0.24
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD12	2	0.24
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD13	2	0.24
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD21	2	0.24
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD22	2	0.24
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD23	2	0.24
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD11	4	0.24
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD12	4	0.24
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD13	4	0.24
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD21	4	0.24
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD22	4	0.24
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD23	4	0.24
(1,3154)	1:34:A:ILE:H	1:34:A:ILE:HG21	5	0.24
(1,3154)	1:34:A:ILE:H	1:34:A:ILE:HG22	5	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3154)	1:34:A:ILE:H	1:34:A:ILE:HG23	5	0.24
(1,3144)	1:20:A:TRP:HD1	1:16:A:GLU:HG2	11	0.24
(1,3144)	1:20:A:TRP:HD1	1:16:A:GLU:HG3	11	0.24
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	6	0.24
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	6	0.24
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	6	0.24
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	14	0.24
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	14	0.24
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	14	0.24
(1,3087)	1:85:A:LEU:H	1:83:A:ILE:HG21	16	0.24
(1,3087)	1:85:A:LEU:H	1:83:A:ILE:HG22	16	0.24
(1,3087)	1:85:A:LEU:H	1:83:A:ILE:HG23	16	0.24
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	8	0.24
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	8	0.24
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	8	0.24
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	15	0.24
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	15	0.24
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	15	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG11	11	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG12	11	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG13	11	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG21	11	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG22	11	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG23	11	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG11	13	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG12	13	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG13	13	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG21	13	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG22	13	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG23	13	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG11	16	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG12	16	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG13	16	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG21	16	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG22	16	0.24
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG23	16	0.24
(1,3014)	1:175:A:ILE:HG23	1:156:A:LEU:HA	15	0.24
(1,3011)	1:103:A:GLU:HG3	1:103:A:GLU:HA	3	0.24
(1,2988)	1:86:A:LYS:HG3	1:86:A:LYS:HA	2	0.24
(1,2988)	1:86:A:LYS:HG3	1:86:A:LYS:HA	3	0.24
(1,2988)	1:86:A:LYS:HG3	1:86:A:LYS:HA	12	0.24
(1,2988)	1:86:A:LYS:HG3	1:86:A:LYS:HA	20	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2903)	1:11:A:VAL:HG12	1:54:A:ILE:HB	11	0.24
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD11	15	0.24
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD12	15	0.24
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD13	15	0.24
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD11	18	0.24
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD12	18	0.24
(1,2873)	1:10:A:SER:HA	1:64:A:ILE:HD13	18	0.24
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG21	20	0.24
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG22	20	0.24
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG23	20	0.24
(1,2841)	1:166:A:ILE:HD13	1:157:A:VAL:H	13	0.24
(1,2826)	1:59:A:ILE:HB	1:9:A:VAL:HB	13	0.24
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD11	5	0.24
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD12	5	0.24
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD13	5	0.24
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD21	5	0.24
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD22	5	0.24
(1,2824)	1:6:A:GLY:HA2	1:24:A:LEU:HD23	5	0.24
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD11	19	0.24
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD12	19	0.24
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD13	19	0.24
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD21	19	0.24
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD22	19	0.24
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD23	19	0.24
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG21	8	0.24
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG22	8	0.24
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG23	8	0.24
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG21	13	0.24
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG22	13	0.24
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG23	13	0.24
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD11	6	0.24
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD12	6	0.24
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD13	6	0.24
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD21	6	0.24
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD22	6	0.24
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD23	6	0.24
(1,2682)	1:62:A:VAL:HB	1:9:A:VAL:HB	6	0.24
(1,2577)	1:166:A:ILE:HD12	1:160:A:GLN:HA	2	0.24
(1,2577)	1:166:A:ILE:HD13	1:160:A:GLN:HA	10	0.24
(1,2551)	1:98:A:ILE:HG22	1:98:A:ILE:HA	9	0.24
(1,2551)	1:98:A:ILE:HG22	1:98:A:ILE:HA	13	0.24
(1,2551)	1:98:A:ILE:HG22	1:98:A:ILE:HA	16	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2536)	1:181:A:ILE:HD11	1:179:A:LEU:HA	8	0.24
(1,2535)	1:101:A:ILE:HD13	1:97:A:ASP:HA	3	0.24
(1,2535)	1:101:A:ILE:HD11	1:97:A:ASP:HA	16	0.24
(1,2533)	1:9:A:VAL:HG21	1:25:A:VAL:HA	7	0.24
(1,2418)	1:200:A:LEU:HD21	1:150:A:LEU:H	4	0.24
(1,2403)	1:3:A:GLU:HB2	1:4:A:LEU:H	19	0.24
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB2	7	0.24
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB3	7	0.24
(1,117)	1:52:A:TYR:HD2	1:52:A:TYR:H	9	0.24
(1,113)	1:176:A:TYR:HD1	1:182:A:PRO:HA	15	0.24
(1,5832)	1:108:A:LYS:H	1:108:A:LYS:HB2	7	0.23
(1,5832)	1:108:A:LYS:H	1:108:A:LYS:HB3	7	0.23
(1,5828)	1:108:A:LYS:H	1:108:A:LYS:HB2	7	0.23
(1,5828)	1:108:A:LYS:H	1:108:A:LYS:HB3	7	0.23
(1,5690)	1:65:A:LEU:HA	1:66:A:ASN:HD21	17	0.23
(1,5690)	1:65:A:LEU:HA	1:66:A:ASN:HD22	17	0.23
(1,5681)	1:94:A:TRP:HZ3	1:94:A:TRP:H	10	0.23
(1,5642)	1:187:A:ALA:HB3	1:191:A:ASN:HD21	17	0.23
(1,5642)	1:187:A:ALA:HB3	1:191:A:ASN:HD22	17	0.23
(1,5623)	1:61:A:GLU:HG2	1:1:A:ASN:HD21	10	0.23
(1,5623)	1:61:A:GLU:HG2	1:1:A:ASN:HD22	10	0.23
(1,5623)	1:61:A:GLU:HG3	1:1:A:ASN:HD21	10	0.23
(1,5623)	1:61:A:GLU:HG3	1:1:A:ASN:HD22	10	0.23
(1,5553)	1:148:A:LEU:HG	1:142:A:VAL:H	7	0.23
(1,5553)	1:148:A:LEU:HG	1:142:A:VAL:H	13	0.23
(1,5534)	1:78:A:LEU:HB2	1:81:A:ALA:H	20	0.23
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	1	0.23
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	1	0.23
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	5	0.23
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	5	0.23
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	8	0.23
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	8	0.23
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	16	0.23
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	16	0.23
(1,5488)	1:195:A:ALA:H	1:191:A:ASN:HD21	19	0.23
(1,5488)	1:195:A:ALA:H	1:191:A:ASN:HD22	19	0.23
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	12	0.23
(1,5451)	1:126:A:LEU:H	1:128:A:LYS:HB2	10	0.23
(1,5451)	1:126:A:LEU:H	1:128:A:LYS:HB3	10	0.23
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG12	4	0.23
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG13	4	0.23
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD1	12	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD2	12	0.23
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG2	2	0.23
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG3	2	0.23
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB2	14	0.23
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB3	14	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	4	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	4	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	4	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	4	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	4	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	4	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	10	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	10	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	10	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	10	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	10	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	10	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	20	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	20	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	20	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	20	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	20	0.23
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	20	0.23
(1,5275)	1:74:A:THR:H	1:71:A:GLU:HB2	6	0.23
(1,5275)	1:74:A:THR:H	1:71:A:GLU:HB3	6	0.23
(1,5275)	1:74:A:THR:H	1:71:A:GLU:HB2	8	0.23
(1,5275)	1:74:A:THR:H	1:71:A:GLU:HB3	8	0.23
(1,5247)	1:40:A:GLN:HE21	1:55:A:ALA:HA	16	0.23
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	18	0.23
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	18	0.23
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	18	0.23
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD11	9	0.23
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD12	9	0.23
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD13	9	0.23
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG21	20	0.23
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG22	20	0.23
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG23	20	0.23
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	5	0.23
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	5	0.23
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	5	0.23
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	8	0.23
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	8	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	8	0.23
(1,5118)	1:7:A:LYS:H	1:5:A:LEU:HG	14	0.23
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD11	2	0.23
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD12	2	0.23
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD13	2	0.23
(1,5052)	1:78:A:LEU:H	1:78:A:LEU:HB2	15	0.23
(1,5052)	1:78:A:LEU:H	1:78:A:LEU:HB3	15	0.23
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG21	8	0.23
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG22	8	0.23
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG23	8	0.23
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG21	10	0.23
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG22	10	0.23
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG23	10	0.23
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG21	12	0.23
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG22	12	0.23
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG23	12	0.23
(1,4975)	1:75:A:LYS:H	1:74:A:THR:HB	18	0.23
(1,4970)	1:64:A:ILE:H	1:65:A:LEU:HA	19	0.23
(1,3604)	1:149:A:ASN:HB2	1:150:A:LEU:H	15	0.23
(1,3604)	1:149:A:ASN:HB3	1:150:A:LEU:H	15	0.23
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	8	0.23
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	14	0.23
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	17	0.23
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB2	9	0.23
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB3	9	0.23
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE2	6	0.23
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE3	6	0.23
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE2	6	0.23
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE3	6	0.23
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE2	6	0.23
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE3	6	0.23
(1,3381)	1:72:A:LEU:HB2	1:79:A:GLN:HG2	7	0.23
(1,3381)	1:72:A:LEU:HB2	1:79:A:GLN:HG3	7	0.23
(1,3381)	1:72:A:LEU:HB3	1:79:A:GLN:HG2	7	0.23
(1,3381)	1:72:A:LEU:HB3	1:79:A:GLN:HG3	7	0.23
(1,3317)	1:39:A:ASP:HB3	1:38:A:LYS:HG2	17	0.23
(1,3317)	1:39:A:ASP:HB3	1:38:A:LYS:HG3	17	0.23
(1,3287)	1:140:A:PRO:HD2	1:139:A:LYS:HD2	18	0.23
(1,3287)	1:140:A:PRO:HD2	1:139:A:LYS:HD3	18	0.23
(1,3217)	1:98:A:ILE:HA	1:96:A:MET:HG2	12	0.23
(1,3217)	1:98:A:ILE:HA	1:96:A:MET:HG3	12	0.23
(1,3200)	1:184:A:LEU:HA	1:183:A:ILE:HG12	3	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3200)	1:184:A:LEU:HA	1:183:A:ILE:HG13	3	0.23
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	18	0.23
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	18	0.23
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	18	0.23
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD11	9	0.23
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD12	9	0.23
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD13	9	0.23
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD21	9	0.23
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD22	9	0.23
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD23	9	0.23
(1,3097)	1:177:A:MET:H	1:174:A:GLN:HG2	10	0.23
(1,3097)	1:177:A:MET:H	1:174:A:GLN:HG3	10	0.23
(1,3096)	1:104:A:SER:H	1:103:A:GLU:HG2	8	0.23
(1,3096)	1:104:A:SER:H	1:103:A:GLU:HG3	8	0.23
(1,3051)	1:34:A:ILE:HG22	1:53:A:SER:HA	18	0.23
(1,3048)	1:34:A:ILE:HB	1:51:A:PHE:HA	5	0.23
(1,3037)	1:146:A:LYS:HG2	1:182:A:PRO:HD2	19	0.23
(1,3037)	1:146:A:LYS:HG2	1:182:A:PRO:HD3	19	0.23
(1,2988)	1:86:A:LYS:HG3	1:86:A:LYS:HA	8	0.23
(1,2975)	1:179:A:LEU:HD11	1:176:A:TYR:HA	10	0.23
(1,2973)	1:166:A:ILE:HB	1:166:A:ILE:HA	1	0.23
(1,2917)	1:196:A:TYR:HA	1:195:A:ALA:H	19	0.23
(1,2868)	1:157:A:VAL:HA	1:160:A:GLN:HA	1	0.23
(1,2868)	1:157:A:VAL:HA	1:160:A:GLN:HA	12	0.23
(1,2868)	1:157:A:VAL:HA	1:160:A:GLN:HA	18	0.23
(1,2853)	1:34:A:ILE:HB	1:51:A:PHE:HA	5	0.23
(1,2826)	1:59:A:ILE:HB	1:9:A:VAL:HB	6	0.23
(1,2826)	1:59:A:ILE:HB	1:61:A:GLU:HG2	7	0.23
(1,2826)	1:59:A:ILE:HB	1:61:A:GLU:HG3	7	0.23
(1,2797)	1:181:A:ILE:HD12	1:143:A:LEU:HD11	19	0.23
(1,2797)	1:181:A:ILE:HD12	1:143:A:LEU:HD12	19	0.23
(1,2797)	1:181:A:ILE:HD12	1:143:A:LEU:HD13	19	0.23
(1,2797)	1:181:A:ILE:HD12	1:143:A:LEU:HD21	19	0.23
(1,2797)	1:181:A:ILE:HD12	1:143:A:LEU:HD22	19	0.23
(1,2797)	1:181:A:ILE:HD12	1:143:A:LEU:HD23	19	0.23
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD11	14	0.23
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD12	14	0.23
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD13	14	0.23
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD21	14	0.23
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD22	14	0.23
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD23	14	0.23
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG21	16	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG22	16	0.23
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG23	16	0.23
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD11	8	0.23
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD12	8	0.23
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD13	8	0.23
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD21	8	0.23
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD22	8	0.23
(1,2744)	1:195:A:ALA:HB1	1:153:A:LEU:HD23	8	0.23
(1,2726)	1:61:A:GLU:HG3	1:60:A:LYS:HB2	20	0.23
(1,2726)	1:61:A:GLU:HG3	1:60:A:LYS:HB3	20	0.23
(1,2692)	1:195:A:ALA:HB2	1:150:A:LEU:HB2	17	0.23
(1,2692)	1:195:A:ALA:HB2	1:150:A:LEU:HB3	17	0.23
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG2	16	0.23
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG3	16	0.23
(1,2649)	1:64:A:ILE:HD11	1:63:A:ASP:HB2	4	0.23
(1,2649)	1:64:A:ILE:HD11	1:63:A:ASP:HB3	4	0.23
(1,2644)	1:55:A:ALA:HB1	1:57:A:LYS:HE2	5	0.23
(1,2644)	1:55:A:ALA:HB1	1:57:A:LYS:HE3	5	0.23
(1,2644)	1:55:A:ALA:HB2	1:57:A:LYS:HE2	5	0.23
(1,2644)	1:55:A:ALA:HB2	1:57:A:LYS:HE3	5	0.23
(1,2644)	1:55:A:ALA:HB3	1:57:A:LYS:HE2	5	0.23
(1,2644)	1:55:A:ALA:HB3	1:57:A:LYS:HE3	5	0.23
(1,2643)	1:187:A:ALA:HB2	1:190:A:TYR:HB2	11	0.23
(1,2643)	1:187:A:ALA:HB2	1:190:A:TYR:HB3	11	0.23
(1,2632)	1:198:A:LYS:HD3	1:139:A:LYS:HE2	18	0.23
(1,2632)	1:198:A:LYS:HD3	1:139:A:LYS:HE3	18	0.23
(1,2596)	1:90:A:VAL:HG21	1:85:A:LEU:HA	1	0.23
(1,2562)	1:72:A:LEU:HG	1:69:A:GLU:HA	14	0.23
(1,2552)	1:101:A:ILE:HG23	1:102:A:LEU:HA	17	0.23
(1,2551)	1:98:A:ILE:HG22	1:98:A:ILE:HA	8	0.23
(1,2551)	1:98:A:ILE:HG21	1:98:A:ILE:HA	17	0.23
(1,2546)	1:222:A:LEU:HG	1:222:A:LEU:HA	17	0.23
(1,2426)	1:101:A:ILE:HG21	1:103:A:GLU:H	18	0.23
(1,2425)	1:54:A:ILE:HG21	1:12:A:VAL:H	5	0.23
(1,2425)	1:54:A:ILE:HG22	1:12:A:VAL:H	18	0.23
(1,2357)	1:24:A:LEU:HA	1:8:A:VAL:HG11	7	0.23
(1,2357)	1:24:A:LEU:HA	1:8:A:VAL:HG12	7	0.23
(1,2357)	1:24:A:LEU:HA	1:8:A:VAL:HG13	7	0.23
(1,2357)	1:24:A:LEU:HA	1:8:A:VAL:HG21	7	0.23
(1,2357)	1:24:A:LEU:HA	1:8:A:VAL:HG22	7	0.23
(1,2357)	1:24:A:LEU:HA	1:8:A:VAL:HG23	7	0.23
(1,2327)	1:160:A:GLN:HA	1:157:A:VAL:HA	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2327)	1:160:A:GLN:HA	1:157:A:VAL:HA	12	0.23
(1,2327)	1:160:A:GLN:HA	1:157:A:VAL:HA	18	0.23
(1,2238)	1:207:A:CYS:HA	1:211:A:ASN:HD21	13	0.23
(1,2238)	1:207:A:CYS:HA	1:211:A:ASN:HD22	13	0.23
(1,1679)	1:54:A:ILE:HG21	1:54:A:ILE:HD11	12	0.23
(1,1679)	1:54:A:ILE:HG21	1:54:A:ILE:HD12	12	0.23
(1,1679)	1:54:A:ILE:HG21	1:54:A:ILE:HD13	12	0.23
(1,1679)	1:54:A:ILE:HG22	1:54:A:ILE:HD11	12	0.23
(1,1679)	1:54:A:ILE:HG22	1:54:A:ILE:HD12	12	0.23
(1,1679)	1:54:A:ILE:HG22	1:54:A:ILE:HD13	12	0.23
(1,1679)	1:54:A:ILE:HG23	1:54:A:ILE:HD11	12	0.23
(1,1679)	1:54:A:ILE:HG23	1:54:A:ILE:HD12	12	0.23
(1,1679)	1:54:A:ILE:HG23	1:54:A:ILE:HD13	12	0.23
(1,1266)	1:117:A:GLU:HA	1:117:A:GLU:HG2	11	0.23
(1,1266)	1:117:A:GLU:HA	1:117:A:GLU:HG3	11	0.23
(1,336)	1:117:A:GLU:HG2	1:117:A:GLU:HA	11	0.23
(1,336)	1:117:A:GLU:HG3	1:117:A:GLU:HA	11	0.23
(1,183)	1:145:A:TYR:H	1:145:A:TYR:HE1	7	0.23
(1,183)	1:145:A:TYR:H	1:145:A:TYR:HE2	7	0.23
(1,160)	1:145:A:TYR:HE1	1:184:A:LEU:HB2	10	0.23
(1,160)	1:145:A:TYR:HE1	1:184:A:LEU:HB3	10	0.23
(1,152)	1:176:A:TYR:HE1	1:181:A:ILE:HB	20	0.23
(1,120)	1:199:A:TYR:HE1	1:137:A:ILE:HG12	13	0.23
(1,120)	1:199:A:TYR:HE1	1:137:A:ILE:HG13	13	0.23
(1,5786)	1:115:A:ASP:HA	1:117:A:GLU:H	4	0.22
(1,5786)	1:115:A:ASP:HA	1:117:A:GLU:H	6	0.22
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD21	18	0.22
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD22	18	0.22
(1,5679)	1:139:A:LYS:HB2	1:138:A:ASN:HD21	8	0.22
(1,5679)	1:139:A:LYS:HB2	1:138:A:ASN:HD22	8	0.22
(1,5679)	1:139:A:LYS:HB3	1:138:A:ASN:HD21	8	0.22
(1,5679)	1:139:A:LYS:HB3	1:138:A:ASN:HD22	8	0.22
(1,5578)	1:153:A:LEU:HA	1:157:A:VAL:H	1	0.22
(1,5554)	1:128:A:LYS:HB2	1:129:A:PHE:H	9	0.22
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	6	0.22
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	6	0.22
(1,5491)	1:37:A:LYS:H	1:37:A:LYS:HE2	8	0.22
(1,5491)	1:37:A:LYS:H	1:37:A:LYS:HE3	8	0.22
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	15	0.22
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	15	0.22
(1,5475)	1:197:A:ARG:H	1:193:A:LYS:HE2	9	0.22
(1,5475)	1:197:A:ARG:H	1:193:A:LYS:HE3	9	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	3	0.22
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD2	1	0.22
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD3	1	0.22
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD2	18	0.22
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD3	18	0.22
(1,5428)	1:23:A:ALA:H	1:20:A:TRP:HZ3	8	0.22
(1,5417)	1:10:A:SER:H	1:3:A:GLU:HB2	3	0.22
(1,5417)	1:10:A:SER:H	1:3:A:GLU:HB3	3	0.22
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE1	7	0.22
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE2	7	0.22
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD1	4	0.22
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD2	4	0.22
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG2	10	0.22
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG3	10	0.22
(1,5382)	1:74:A:THR:H	1:71:A:GLU:HG2	10	0.22
(1,5382)	1:74:A:THR:H	1:71:A:GLU:HG3	10	0.22
(1,5311)	1:87:A:THR:H	1:65:A:LEU:HD11	16	0.22
(1,5311)	1:87:A:THR:H	1:65:A:LEU:HD12	16	0.22
(1,5311)	1:87:A:THR:H	1:65:A:LEU:HD13	16	0.22
(1,5311)	1:87:A:THR:H	1:65:A:LEU:HD21	16	0.22
(1,5311)	1:87:A:THR:H	1:65:A:LEU:HD22	16	0.22
(1,5311)	1:87:A:THR:H	1:65:A:LEU:HD23	16	0.22
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	18	0.22
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	18	0.22
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	18	0.22
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	7	0.22
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	7	0.22
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	7	0.22
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	9	0.22
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	9	0.22
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	9	0.22
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG21	3	0.22
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG22	3	0.22
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG23	3	0.22
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD11	4	0.22
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD12	4	0.22
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD13	4	0.22
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG21	15	0.22
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG22	15	0.22
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG23	15	0.22
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	17	0.22
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	17	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	17	0.22
(1,5125)	1:196:A:TYR:H	1:153:A:LEU:HD11	16	0.22
(1,5125)	1:196:A:TYR:H	1:153:A:LEU:HD12	16	0.22
(1,5125)	1:196:A:TYR:H	1:153:A:LEU:HD13	16	0.22
(1,5125)	1:196:A:TYR:H	1:153:A:LEU:HD21	16	0.22
(1,5125)	1:196:A:TYR:H	1:153:A:LEU:HD22	16	0.22
(1,5125)	1:196:A:TYR:H	1:153:A:LEU:HD23	16	0.22
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD11	14	0.22
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD12	14	0.22
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD13	14	0.22
(1,4994)	1:222:A:LEU:H	1:222:A:LEU:HG	6	0.22
(1,4975)	1:75:A:LYS:H	1:74:A:THR:HB	16	0.22
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD1	17	0.22
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD2	17	0.22
(1,4908)	1:20:A:TRP:HE1	1:75:A:LYS:HD2	18	0.22
(1,4908)	1:20:A:TRP:HE1	1:75:A:LYS:HD3	18	0.22
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	3	0.22
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	3	0.22
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	19	0.22
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	19	0.22
(1,3490)	1:16:A:GLU:H	1:14:A:ALA:HA	5	0.22
(1,3490)	1:16:A:GLU:H	1:14:A:ALA:HA	11	0.22
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB2	5	0.22
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB3	5	0.22
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB2	5	0.22
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB3	5	0.22
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB2	5	0.22
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB3	5	0.22
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB2	5	0.22
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB3	5	0.22
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB2	5	0.22
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB3	5	0.22
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB2	5	0.22
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB3	5	0.22
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB2	13	0.22
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB3	13	0.22
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB2	13	0.22
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB3	13	0.22
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB2	13	0.22
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB3	13	0.22
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB2	13	0.22
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB3	13	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB2	13	0.22
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB3	13	0.22
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB2	13	0.22
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB3	13	0.22
(1,3398)	1:15:A:THR:HG21	1:16:A:GLU:HG2	10	0.22
(1,3398)	1:15:A:THR:HG21	1:16:A:GLU:HG3	10	0.22
(1,3398)	1:15:A:THR:HG22	1:16:A:GLU:HG2	10	0.22
(1,3398)	1:15:A:THR:HG22	1:16:A:GLU:HG3	10	0.22
(1,3398)	1:15:A:THR:HG23	1:16:A:GLU:HG2	10	0.22
(1,3398)	1:15:A:THR:HG23	1:16:A:GLU:HG3	10	0.22
(1,3381)	1:72:A:LEU:HB2	1:79:A:GLN:HG2	11	0.22
(1,3381)	1:72:A:LEU:HB2	1:79:A:GLN:HG3	11	0.22
(1,3381)	1:72:A:LEU:HB3	1:79:A:GLN:HG2	11	0.22
(1,3381)	1:72:A:LEU:HB3	1:79:A:GLN:HG3	11	0.22
(1,3351)	1:61:A:GLU:HB2	1:60:A:LYS:HB2	1	0.22
(1,3351)	1:61:A:GLU:HB2	1:60:A:LYS:HB3	1	0.22
(1,3351)	1:61:A:GLU:HB3	1:60:A:LYS:HB2	1	0.22
(1,3351)	1:61:A:GLU:HB3	1:60:A:LYS:HB3	1	0.22
(1,3351)	1:61:A:GLU:HB2	1:60:A:LYS:HB2	15	0.22
(1,3351)	1:61:A:GLU:HB2	1:60:A:LYS:HB3	15	0.22
(1,3351)	1:61:A:GLU:HB3	1:60:A:LYS:HB2	15	0.22
(1,3351)	1:61:A:GLU:HB3	1:60:A:LYS:HB3	15	0.22
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	3	0.22
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	3	0.22
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	3	0.22
(1,3303)	1:191:A:ASN:HB2	1:143:A:LEU:HG	7	0.22
(1,3287)	1:140:A:PRO:HD3	1:139:A:LYS:HD2	12	0.22
(1,3287)	1:140:A:PRO:HD3	1:139:A:LYS:HD3	12	0.22
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG12	3	0.22
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG13	3	0.22
(1,3221)	1:38:A:LYS:HA	1:38:A:LYS:HD2	4	0.22
(1,3221)	1:38:A:LYS:HA	1:38:A:LYS:HD3	4	0.22
(1,3217)	1:128:A:LYS:HA	1:96:A:MET:HG2	2	0.22
(1,3217)	1:128:A:LYS:HA	1:96:A:MET:HG3	2	0.22
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG21	19	0.22
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG22	19	0.22
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG23	19	0.22
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	7	0.22
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	7	0.22
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	7	0.22
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	9	0.22
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	9	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	9	0.22
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG2	7	0.22
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG3	7	0.22
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	18	0.22
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	18	0.22
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	18	0.22
(1,3097)	1:82:A:SER:H	1:79:A:GLN:HG2	17	0.22
(1,3097)	1:82:A:SER:H	1:79:A:GLN:HG3	17	0.22
(1,3096)	1:104:A:SER:H	1:103:A:GLU:HG2	2	0.22
(1,3096)	1:104:A:SER:H	1:103:A:GLU:HG3	2	0.22
(1,3087)	1:85:A:LEU:H	1:83:A:ILE:HG21	14	0.22
(1,3087)	1:85:A:LEU:H	1:83:A:ILE:HG22	14	0.22
(1,3087)	1:85:A:LEU:H	1:83:A:ILE:HG23	14	0.22
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG11	8	0.22
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG12	8	0.22
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG13	8	0.22
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG21	8	0.22
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG22	8	0.22
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG23	8	0.22
(1,3012)	1:173:A:LYS:HB3	1:174:A:GLN:HA	15	0.22
(1,2988)	1:86:A:LYS:HG3	1:86:A:LYS:HA	1	0.22
(1,2988)	1:86:A:LYS:HG3	1:86:A:LYS:HA	17	0.22
(1,2975)	1:179:A:LEU:HD22	1:176:A:TYR:HA	20	0.22
(1,2946)	1:190:A:TYR:HB2	1:189:A:SER:HB2	9	0.22
(1,2946)	1:190:A:TYR:HB2	1:189:A:SER:HB3	9	0.22
(1,2917)	1:196:A:TYR:HA	1:195:A:ALA:H	14	0.22
(1,2887)	1:101:A:ILE:HB	1:99:A:SER:H	18	0.22
(1,2872)	1:100:A:GLU:HB3	1:101:A:ILE:HD11	2	0.22
(1,2872)	1:100:A:GLU:HB3	1:101:A:ILE:HD12	2	0.22
(1,2872)	1:100:A:GLU:HB3	1:101:A:ILE:HD13	2	0.22
(1,2868)	1:157:A:VAL:HA	1:160:A:GLN:HA	5	0.22
(1,2840)	1:22:A:PRO:HA	1:81:A:ALA:HB1	11	0.22
(1,2840)	1:22:A:PRO:HA	1:81:A:ALA:HB2	11	0.22
(1,2840)	1:22:A:PRO:HA	1:81:A:ALA:HB3	11	0.22
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG21	2	0.22
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG22	2	0.22
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG23	2	0.22
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG11	4	0.22
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG12	4	0.22
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG13	4	0.22
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG21	4	0.22
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG22	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2744)	1:195:A:ALA:HB3	1:192:A:VAL:HG23	4	0.22
(1,2717)	1:130:A:MET:HE3	1:198:A:LYS:HB2	16	0.22
(1,2717)	1:130:A:MET:HE3	1:198:A:LYS:HB3	16	0.22
(1,2699)	1:8:A:VAL:HG12	1:85:A:LEU:HB2	14	0.22
(1,2699)	1:8:A:VAL:HG12	1:85:A:LEU:HB3	14	0.22
(1,2699)	1:8:A:VAL:HG13	1:85:A:LEU:HB2	18	0.22
(1,2699)	1:8:A:VAL:HG13	1:85:A:LEU:HB3	18	0.22
(1,2692)	1:195:A:ALA:HB3	1:150:A:LEU:HB2	11	0.22
(1,2692)	1:195:A:ALA:HB3	1:150:A:LEU:HB3	11	0.22
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG2	6	0.22
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG3	6	0.22
(1,2607)	1:137:A:ILE:HD13	1:127:A:TYR:HA	9	0.22
(1,2577)	1:166:A:ILE:HD12	1:160:A:GLN:HA	14	0.22
(1,2562)	1:72:A:LEU:HG	1:69:A:GLU:HA	11	0.22
(1,2552)	1:101:A:ILE:HG23	1:102:A:LEU:HA	4	0.22
(1,2551)	1:98:A:ILE:HG22	1:98:A:ILE:HA	7	0.22
(1,2538)	1:183:A:ILE:HD11	1:184:A:LEU:HA	16	0.22
(1,2527)	1:142:A:VAL:HB	1:143:A:LEU:HA	1	0.22
(1,2527)	1:142:A:VAL:HB	1:143:A:LEU:HA	9	0.22
(1,2527)	1:142:A:VAL:HB	1:143:A:LEU:HA	14	0.22
(1,2496)	1:46:A:PHE:HD1	1:44:A:ARG:HG2	8	0.22
(1,2496)	1:46:A:PHE:HD1	1:44:A:ARG:HG3	8	0.22
(1,2411)	1:88:A:ARG:HD2	1:88:A:ARG:H	7	0.22
(1,2389)	1:42:A:LEU:HG	1:36:A:VAL:H	12	0.22
(1,2385)	1:34:A:ILE:HB	1:52:A:TYR:H	7	0.22
(1,2327)	1:160:A:GLN:HA	1:157:A:VAL:HA	5	0.22
(1,1679)	1:54:A:ILE:HG21	1:54:A:ILE:HD11	4	0.22
(1,1679)	1:54:A:ILE:HG21	1:54:A:ILE:HD12	4	0.22
(1,1679)	1:54:A:ILE:HG21	1:54:A:ILE:HD13	4	0.22
(1,1679)	1:54:A:ILE:HG22	1:54:A:ILE:HD11	4	0.22
(1,1679)	1:54:A:ILE:HG22	1:54:A:ILE:HD12	4	0.22
(1,1679)	1:54:A:ILE:HG22	1:54:A:ILE:HD13	4	0.22
(1,1679)	1:54:A:ILE:HG23	1:54:A:ILE:HD11	4	0.22
(1,1679)	1:54:A:ILE:HG23	1:54:A:ILE:HD12	4	0.22
(1,1679)	1:54:A:ILE:HG23	1:54:A:ILE:HD13	4	0.22
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD11	14	0.22
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD12	14	0.22
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD13	14	0.22
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD21	14	0.22
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD22	14	0.22
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD23	14	0.22
(1,5870)	1:110:A:LYS:HE2	1:111:A:GLU:H	7	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5870)	1:110:A:LYS:HE3	1:111:A:GLU:H	7	0.21
(1,5850)	1:113:A:GLU:HG3	1:113:A:GLU:H	7	0.21
(1,5843)	1:111:A:GLU:H	1:110:A:LYS:HE2	7	0.21
(1,5843)	1:111:A:GLU:H	1:110:A:LYS:HE3	7	0.21
(1,5813)	1:108:A:LYS:HG2	1:106:A:SER:HB2	15	0.21
(1,5813)	1:108:A:LYS:HG2	1:106:A:SER:HB3	15	0.21
(1,5813)	1:108:A:LYS:HG3	1:106:A:SER:HB2	15	0.21
(1,5813)	1:108:A:LYS:HG3	1:106:A:SER:HB3	15	0.21
(1,5792)	1:76:A:PRO:HD2	1:75:A:LYS:HB2	5	0.21
(1,5792)	1:76:A:PRO:HD2	1:75:A:LYS:HB3	5	0.21
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD21	4	0.21
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD22	4	0.21
(1,5689)	1:137:A:ILE:HA	1:138:A:ASN:HD21	16	0.21
(1,5689)	1:137:A:ILE:HA	1:138:A:ASN:HD22	16	0.21
(1,5681)	1:94:A:TRP:HZ3	1:94:A:TRP:H	18	0.21
(1,5642)	1:187:A:ALA:HB2	1:191:A:ASN:HD21	16	0.21
(1,5642)	1:187:A:ALA:HB2	1:191:A:ASN:HD22	16	0.21
(1,5602)	1:34:A:ILE:HG21	1:53:A:SER:H	17	0.21
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	12	0.21
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	12	0.21
(1,5491)	1:37:A:LYS:H	1:37:A:LYS:HE2	10	0.21
(1,5491)	1:37:A:LYS:H	1:37:A:LYS:HE3	10	0.21
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	2	0.21
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	2	0.21
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	12	0.21
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	12	0.21
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD11	5	0.21
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD12	5	0.21
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD13	5	0.21
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD21	5	0.21
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD22	5	0.21
(1,5463)	1:178:A:ASP:H	1:153:A:LEU:HD23	5	0.21
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE1	2	0.21
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE2	2	0.21
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG12	11	0.21
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG13	11	0.21
(1,5396)	1:124:A:GLN:H	1:126:A:LEU:HB2	2	0.21
(1,5396)	1:124:A:GLN:H	1:126:A:LEU:HB3	2	0.21
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD1	14	0.21
(1,5386)	1:200:A:LEU:H	1:201:A:TYR:HD2	14	0.21
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG2	11	0.21
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG3	11	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG2	17	0.21
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG3	17	0.21
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB2	8	0.21
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB3	8	0.21
(1,5313)	1:20:A:TRP:HE1	1:71:A:GLU:HG2	11	0.21
(1,5313)	1:20:A:TRP:HE1	1:71:A:GLU:HG3	11	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	5	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	5	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	5	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	5	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	5	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	5	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	12	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	12	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	12	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	12	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	12	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	12	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	14	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	14	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	14	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	14	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	14	0.21
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	14	0.21
(1,5275)	1:74:A:THR:H	1:71:A:GLU:HB2	10	0.21
(1,5275)	1:74:A:THR:H	1:71:A:GLU:HB3	10	0.21
(1,5267)	1:160:A:GLN:HE21	1:175:A:ILE:HD11	12	0.21
(1,5267)	1:160:A:GLN:HE21	1:175:A:ILE:HD12	12	0.21
(1,5267)	1:160:A:GLN:HE21	1:175:A:ILE:HD13	12	0.21
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD21	20	0.21
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD22	20	0.21
(1,5237)	1:145:A:TYR:H	1:146:A:LYS:HG2	5	0.21
(1,5237)	1:145:A:TYR:H	1:146:A:LYS:HG3	5	0.21
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	8	0.21
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	8	0.21
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	8	0.21
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	10	0.21
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	10	0.21
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	10	0.21
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	12	0.21
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	12	0.21
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	12	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	13	0.21
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	13	0.21
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	13	0.21
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	18	0.21
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	18	0.21
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB2	2	0.21
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB3	2	0.21
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG21	17	0.21
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG22	17	0.21
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HG23	17	0.21
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	1	0.21
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	1	0.21
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	1	0.21
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG11	20	0.21
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG12	20	0.21
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG13	20	0.21
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG21	20	0.21
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG22	20	0.21
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG23	20	0.21
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG11	15	0.21
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG12	15	0.21
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG13	15	0.21
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG21	15	0.21
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG22	15	0.21
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG23	15	0.21
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD11	3	0.21
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD12	3	0.21
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD13	3	0.21
(1,5054)	1:78:A:LEU:H	1:47:A:ILE:HG12	14	0.21
(1,5054)	1:78:A:LEU:H	1:47:A:ILE:HG13	14	0.21
(1,5052)	1:78:A:LEU:H	1:75:A:LYS:HB2	8	0.21
(1,5052)	1:78:A:LEU:H	1:75:A:LYS:HB3	8	0.21
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	11	0.21
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	11	0.21
(1,4985)	1:19:A:GLU:H	1:16:A:GLU:HG2	14	0.21
(1,4985)	1:19:A:GLU:H	1:16:A:GLU:HG3	14	0.21
(1,4970)	1:64:A:ILE:H	1:65:A:LEU:HA	4	0.21
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD11	12	0.21
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD12	12	0.21
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD13	12	0.21
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD21	12	0.21
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD22	12	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD23	12	0.21
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB2	4	0.21
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB3	4	0.21
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB2	4	0.21
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB3	4	0.21
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	15	0.21
(1,3492)	1:148:A:LEU:HG	1:148:A:LEU:HA	16	0.21
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB2	3	0.21
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB3	3	0.21
(1,3477)	1:64:A:ILE:H	1:65:A:LEU:HB2	10	0.21
(1,3477)	1:64:A:ILE:H	1:65:A:LEU:HB3	10	0.21
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB2	8	0.21
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB3	8	0.21
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB2	8	0.21
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB3	8	0.21
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB2	8	0.21
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB3	8	0.21
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB2	8	0.21
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB3	8	0.21
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB2	8	0.21
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB3	8	0.21
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB2	8	0.21
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB3	8	0.21
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB2	20	0.21
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB3	20	0.21
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB2	20	0.21
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB3	20	0.21
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB2	20	0.21
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB3	20	0.21
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB2	20	0.21
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB3	20	0.21
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB2	20	0.21
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB3	20	0.21
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB2	20	0.21
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB3	20	0.21
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG2	20	0.21
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG3	20	0.21
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG2	20	0.21
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG3	20	0.21
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG2	20	0.21
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG3	20	0.21
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG2	20	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG3	20	0.21
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG2	20	0.21
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG3	20	0.21
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG2	20	0.21
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG3	20	0.21
(1,3428)	1:72:A:LEU:HD13	1:69:A:GLU:HB2	13	0.21
(1,3428)	1:72:A:LEU:HD13	1:69:A:GLU:HB3	13	0.21
(1,3379)	1:75:A:LYS:HG3	1:19:A:GLU:HG2	7	0.21
(1,3379)	1:75:A:LYS:HG3	1:19:A:GLU:HG3	7	0.21
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	18	0.21
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	18	0.21
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	18	0.21
(1,3340)	1:19:A:GLU:HB2	1:75:A:LYS:HG2	20	0.21
(1,3340)	1:19:A:GLU:HB2	1:75:A:LYS:HG3	20	0.21
(1,3340)	1:19:A:GLU:HB3	1:75:A:LYS:HG2	20	0.21
(1,3340)	1:19:A:GLU:HB3	1:75:A:LYS:HG3	20	0.21
(1,3273)	1:151:A:PHE:HA	1:119:A:ARG:HB2	18	0.21
(1,3273)	1:151:A:PHE:HA	1:119:A:ARG:HB3	18	0.21
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	2	0.21
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	2	0.21
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	20	0.21
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	20	0.21
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG2	13	0.21
(1,3144)	1:20:A:TRP:HD1	1:19:A:GLU:HG3	13	0.21
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG21	7	0.21
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG22	7	0.21
(1,3120)	1:212:A:ILE:H	1:212:A:ILE:HG23	7	0.21
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG2	5	0.21
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG3	5	0.21
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	8	0.21
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	8	0.21
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	8	0.21
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	10	0.21
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	10	0.21
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	10	0.21
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	12	0.21
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	12	0.21
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	12	0.21
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	13	0.21
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	13	0.21
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	13	0.21
(1,3096)	1:104:A:SER:H	1:103:A:GLU:HG2	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3096)	1:104:A:SER:H	1:103:A:GLU:HG3	1	0.21
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG11	15	0.21
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG12	15	0.21
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG13	15	0.21
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG21	15	0.21
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG22	15	0.21
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG23	15	0.21
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	3	0.21
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	3	0.21
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	3	0.21
(1,3051)	1:34:A:ILE:HG22	1:53:A:SER:HA	3	0.21
(1,2975)	1:179:A:LEU:HD12	1:176:A:TYR:HA	6	0.21
(1,2975)	1:179:A:LEU:HD22	1:176:A:TYR:HA	7	0.21
(1,2973)	1:166:A:ILE:HB	1:166:A:ILE:HA	11	0.21
(1,2973)	1:166:A:ILE:HB	1:166:A:ILE:HA	14	0.21
(1,2973)	1:166:A:ILE:HB	1:166:A:ILE:HA	16	0.21
(1,2973)	1:166:A:ILE:HB	1:166:A:ILE:HA	20	0.21
(1,2887)	1:101:A:ILE:HB	1:99:A:SER:H	2	0.21
(1,2841)	1:166:A:ILE:HD13	1:157:A:VAL:H	20	0.21
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD11	12	0.21
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD12	12	0.21
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD13	12	0.21
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD21	12	0.21
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD22	12	0.21
(1,2770)	1:101:A:ILE:HD13	1:123:A:LEU:HD23	12	0.21
(1,2708)	1:137:A:ILE:HD11	1:139:A:LYS:HB2	8	0.21
(1,2708)	1:137:A:ILE:HD11	1:139:A:LYS:HB3	8	0.21
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG2	3	0.21
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG3	3	0.21
(1,2665)	1:47:A:ILE:HD11	1:76:A:PRO:HB2	3	0.21
(1,2665)	1:47:A:ILE:HD11	1:76:A:PRO:HB3	3	0.21
(1,2643)	1:187:A:ALA:HB2	1:190:A:TYR:HB2	7	0.21
(1,2643)	1:187:A:ALA:HB2	1:190:A:TYR:HB3	7	0.21
(1,2643)	1:187:A:ALA:HB2	1:190:A:TYR:HB2	10	0.21
(1,2643)	1:187:A:ALA:HB2	1:190:A:TYR:HB3	10	0.21
(1,2561)	1:65:A:LEU:HG	1:86:A:LYS:HA	20	0.21
(1,2551)	1:98:A:ILE:HG23	1:98:A:ILE:HA	15	0.21
(1,2546)	1:222:A:LEU:HG	1:222:A:LEU:HA	12	0.21
(1,2527)	1:142:A:VAL:HB	1:143:A:LEU:HA	16	0.21
(1,2479)	1:194:A:THR:HG23	1:190:A:TYR:HD1	19	0.21
(1,2479)	1:194:A:THR:HG23	1:190:A:TYR:HD2	19	0.21
(1,2443)	1:83:A:ILE:HD11	1:83:A:ILE:H	18	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2426)	1:101:A:ILE:HG22	1:103:A:GLU:H	3	0.21
(1,2425)	1:54:A:ILE:HG21	1:57:A:LYS:H	9	0.21
(1,2418)	1:200:A:LEU:HD22	1:199:A:TYR:H	20	0.21
(1,2415)	1:19:A:GLU:H	1:16:A:GLU:HG2	14	0.21
(1,2415)	1:19:A:GLU:H	1:16:A:GLU:HG3	14	0.21
(1,2400)	1:34:A:ILE:HD13	1:52:A:TYR:H	8	0.21
(1,2389)	1:42:A:LEU:HG	1:36:A:VAL:H	13	0.21
(1,2212)	1:138:A:ASN:HD21	1:137:A:ILE:HA	16	0.21
(1,2212)	1:138:A:ASN:HD22	1:137:A:ILE:HA	16	0.21
(1,1919)	1:81:A:ALA:H	1:85:A:LEU:HG	17	0.21
(1,362)	1:150:A:LEU:HG	1:119:A:ARG:HA	16	0.21
(1,150)	1:127:A:TYR:HE1	1:123:A:LEU:HD11	14	0.21
(1,150)	1:127:A:TYR:HE1	1:123:A:LEU:HD12	14	0.21
(1,150)	1:127:A:TYR:HE1	1:123:A:LEU:HD13	14	0.21
(1,150)	1:127:A:TYR:HE1	1:123:A:LEU:HD21	14	0.21
(1,150)	1:127:A:TYR:HE1	1:123:A:LEU:HD22	14	0.21
(1,150)	1:127:A:TYR:HE1	1:123:A:LEU:HD23	14	0.21
(1,150)	1:127:A:TYR:HE2	1:141:A:PRO:HG2	20	0.21
(1,150)	1:127:A:TYR:HE2	1:141:A:PRO:HG3	20	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD11	4	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD12	4	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD13	4	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD21	4	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD22	4	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD23	4	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD11	16	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD12	16	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD13	16	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD21	16	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD22	16	0.21
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD23	16	0.21
(1,5856)	1:115:A:ASP:HA	1:114:A:LEU:HA	12	0.2
(1,5848)	1:113:A:GLU:HB2	1:114:A:LEU:HG	17	0.2
(1,5832)	1:109:A:ASP:H	1:108:A:LYS:HB2	9	0.2
(1,5832)	1:109:A:ASP:H	1:108:A:LYS:HB3	9	0.2
(1,5828)	1:108:A:LYS:H	1:108:A:LYS:HB2	10	0.2
(1,5828)	1:108:A:LYS:H	1:108:A:LYS:HB3	10	0.2
(1,5807)	1:99:A:SER:H	1:97:A:ASP:HB2	10	0.2
(1,5807)	1:99:A:SER:H	1:97:A:ASP:HB3	10	0.2
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD21	6	0.2
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD22	6	0.2
(1,5690)	1:65:A:LEU:HA	1:66:A:ASN:HD21	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5690)	1:65:A:LEU:HA	1:66:A:ASN:HD22	9	0.2
(1,5623)	1:61:A:GLU:HG2	1:1:A:ASN:HD21	6	0.2
(1,5623)	1:61:A:GLU:HG2	1:1:A:ASN:HD22	6	0.2
(1,5623)	1:61:A:GLU:HG3	1:1:A:ASN:HD21	6	0.2
(1,5623)	1:61:A:GLU:HG3	1:1:A:ASN:HD22	6	0.2
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	15	0.2
(1,5578)	1:38:A:LYS:HA	1:40:A:GLN:H	5	0.2
(1,5534)	1:78:A:LEU:HB3	1:81:A:ALA:H	6	0.2
(1,5534)	1:78:A:LEU:HB2	1:81:A:ALA:H	9	0.2
(1,5522)	1:64:A:ILE:HD12	1:23:A:ALA:H	15	0.2
(1,5500)	1:154:A:PHE:H	1:153:A:LEU:HG	14	0.2
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	8	0.2
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	8	0.2
(1,5496)	1:20:A:TRP:HE1	1:62:A:VAL:HB	9	0.2
(1,5488)	1:195:A:ALA:H	1:191:A:ASN:HD21	15	0.2
(1,5488)	1:195:A:ALA:H	1:191:A:ASN:HD22	15	0.2
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	1	0.2
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	2	0.2
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	6	0.2
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	8	0.2
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG12	12	0.2
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG13	12	0.2
(1,5387)	1:200:A:LEU:H	1:197:A:ARG:HA	5	0.2
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB2	4	0.2
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB3	4	0.2
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB2	10	0.2
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB3	10	0.2
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	1	0.2
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	8	0.2
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	13	0.2
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	13	0.2
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	13	0.2
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	13	0.2
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	13	0.2
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	13	0.2
(1,5275)	1:74:A:THR:H	1:71:A:GLU:HB2	3	0.2
(1,5275)	1:74:A:THR:H	1:71:A:GLU:HB3	3	0.2
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	17	0.2
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	17	0.2
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	17	0.2
(1,5203)	1:200:A:LEU:H	1:195:A:ALA:HB1	14	0.2
(1,5203)	1:200:A:LEU:H	1:195:A:ALA:HB2	14	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5203)	1:200:A:LEU:H	1:195:A:ALA:HB3	14	0.2
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD11	1	0.2
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD12	1	0.2
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD13	1	0.2
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD11	5	0.2
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD12	5	0.2
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD13	5	0.2
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD11	7	0.2
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD12	7	0.2
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD13	7	0.2
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	11	0.2
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	11	0.2
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	11	0.2
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD11	12	0.2
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD12	12	0.2
(1,5139)	1:80:A:LYS:H	1:83:A:ILE:HD13	12	0.2
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG11	8	0.2
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG12	8	0.2
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG13	8	0.2
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG21	8	0.2
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG22	8	0.2
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG23	8	0.2
(1,5103)	1:123:A:LEU:H	1:119:A:ARG:HB2	6	0.2
(1,5103)	1:123:A:LEU:H	1:119:A:ARG:HB3	6	0.2
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB2	19	0.2
(1,4996)	1:75:A:LYS:H	1:71:A:GLU:HB3	19	0.2
(1,4994)	1:222:A:LEU:H	1:222:A:LEU:HG	11	0.2
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD1	13	0.2
(1,4965)	1:84:A:PHE:H	1:46:A:PHE:HD2	13	0.2
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD11	7	0.2
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD12	7	0.2
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD13	7	0.2
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD21	7	0.2
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD22	7	0.2
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD23	7	0.2
(1,4908)	1:20:A:TRP:HE1	1:60:A:LYS:HD2	8	0.2
(1,4908)	1:20:A:TRP:HE1	1:60:A:LYS:HD3	8	0.2
(1,4908)	1:20:A:TRP:HE1	1:60:A:LYS:HD2	12	0.2
(1,4908)	1:20:A:TRP:HE1	1:60:A:LYS:HD3	12	0.2
(1,3721)	1:18:A:THR:HB	1:19:A:GLU:H	8	0.2
(1,3681)	1:212:A:ILE:HD11	1:213:A:GLN:H	13	0.2
(1,3681)	1:212:A:ILE:HD12	1:213:A:GLN:H	13	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3681)	1:212:A:ILE:HD13	1:213:A:GLN:H	13	0.2
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB2	1	0.2
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB3	1	0.2
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB2	1	0.2
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB3	1	0.2
(1,3505)	1:197:A:ARG:HG2	1:197:A:ARG:HA	4	0.2
(1,3505)	1:197:A:ARG:HG2	1:197:A:ARG:HA	19	0.2
(1,3431)	1:83:A:ILE:HG21	1:87:A:THR:HG21	1	0.2
(1,3431)	1:83:A:ILE:HG21	1:87:A:THR:HG22	1	0.2
(1,3431)	1:83:A:ILE:HG21	1:87:A:THR:HG23	1	0.2
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	7	0.2
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	7	0.2
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	7	0.2
(1,3289)	1:68:A:PRO:HD2	1:72:A:LEU:HG	19	0.2
(1,3259)	1:56:A:ARG:HA	1:56:A:ARG:HD2	3	0.2
(1,3259)	1:56:A:ARG:HA	1:56:A:ARG:HD3	3	0.2
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	17	0.2
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	17	0.2
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	17	0.2
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG2	4	0.2
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG3	4	0.2
(1,3053)	1:55:A:ALA:HB2	1:40:A:GLN:HA	4	0.2
(1,3051)	1:34:A:ILE:HG22	1:53:A:SER:HA	7	0.2
(1,2988)	1:86:A:LYS:HG2	1:86:A:LYS:HA	11	0.2
(1,2975)	1:179:A:LEU:HD22	1:176:A:TYR:HA	15	0.2
(1,2973)	1:166:A:ILE:HB	1:166:A:ILE:HA	4	0.2
(1,2958)	1:72:A:LEU:H	1:70:A:SER:HB2	14	0.2
(1,2958)	1:72:A:LEU:H	1:70:A:SER:HB3	14	0.2
(1,2922)	1:64:A:ILE:HD12	1:62:A:VAL:HB	2	0.2
(1,2871)	1:175:A:ILE:HG13	1:175:A:ILE:HA	1	0.2
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	15	0.2
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG21	13	0.2
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG22	13	0.2
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG23	13	0.2
(1,2841)	1:166:A:ILE:HD13	1:157:A:VAL:H	16	0.2
(1,2804)	1:171:A:VAL:HG11	1:175:A:ILE:HD11	11	0.2
(1,2804)	1:171:A:VAL:HG11	1:175:A:ILE:HD12	11	0.2
(1,2804)	1:171:A:VAL:HG11	1:175:A:ILE:HD13	11	0.2
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG11	15	0.2
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG12	15	0.2
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG13	15	0.2
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG21	15	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG22	15	0.2
(1,2776)	1:54:A:ILE:HB	1:43:A:VAL:HG23	15	0.2
(1,2685)	1:67:A:LEU:HD21	1:71:A:GLU:HB2	19	0.2
(1,2685)	1:67:A:LEU:HD21	1:71:A:GLU:HB3	19	0.2
(1,2643)	1:187:A:ALA:HB3	1:190:A:TYR:HB2	6	0.2
(1,2643)	1:187:A:ALA:HB3	1:190:A:TYR:HB3	6	0.2
(1,2639)	1:11:A:VAL:HG12	1:20:A:TRP:HB2	18	0.2
(1,2639)	1:11:A:VAL:HG12	1:20:A:TRP:HB3	18	0.2
(1,2562)	1:72:A:LEU:HG	1:69:A:GLU:HA	20	0.2
(1,2533)	1:9:A:VAL:HG22	1:25:A:VAL:HA	20	0.2
(1,2527)	1:142:A:VAL:HB	1:143:A:LEU:HA	11	0.2
(1,2502)	1:42:A:LEU:HG	1:27:A:SER:HA	4	0.2
(1,2462)	1:197:A:ARG:HD2	1:201:A:TYR:HD1	1	0.2
(1,2462)	1:197:A:ARG:HD2	1:201:A:TYR:HD2	1	0.2
(1,2428)	1:64:A:ILE:HD13	1:65:A:LEU:H	19	0.2
(1,2389)	1:42:A:LEU:HG	1:36:A:VAL:H	3	0.2
(1,2373)	1:26:A:ILE:HD13	1:43:A:VAL:H	19	0.2
(1,2289)	1:119:A:ARG:HA	1:117:A:GLU:H	11	0.2
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB2	3	0.2
(1,2260)	1:101:A:ILE:HA	1:140:A:PRO:HB3	3	0.2
(1,1868)	1:11:A:VAL:HA	1:59:A:ILE:HB	18	0.2
(1,624)	1:221:A:GLU:H	1:221:A:GLU:HG2	20	0.2
(1,624)	1:221:A:GLU:H	1:221:A:GLU:HG3	20	0.2
(1,152)	1:176:A:TYR:HE1	1:181:A:ILE:HB	16	0.2
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD11	18	0.2
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD12	18	0.2
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD13	18	0.2
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD21	18	0.2
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD22	18	0.2
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD23	18	0.2
(1,5842)	1:111:A:GLU:H	1:111:A:GLU:HG2	1	0.19
(1,5842)	1:111:A:GLU:H	1:111:A:GLU:HG3	1	0.19
(1,5832)	1:108:A:LYS:H	1:108:A:LYS:HB2	15	0.19
(1,5832)	1:108:A:LYS:H	1:108:A:LYS:HB3	15	0.19
(1,5828)	1:108:A:LYS:H	1:108:A:LYS:HB2	15	0.19
(1,5828)	1:108:A:LYS:H	1:108:A:LYS:HB3	15	0.19
(1,5812)	1:64:A:ILE:HD11	1:8:A:VAL:HB	9	0.19
(1,5792)	1:76:A:PRO:HD2	1:75:A:LYS:HB2	11	0.19
(1,5792)	1:76:A:PRO:HD2	1:75:A:LYS:HB3	11	0.19
(1,5785)	1:111:A:GLU:H	1:111:A:GLU:HG2	1	0.19
(1,5785)	1:111:A:GLU:H	1:111:A:GLU:HG3	1	0.19
(1,5690)	1:65:A:LEU:HA	1:66:A:ASN:HD21	11	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5690)	1:65:A:LEU:HA	1:66:A:ASN:HD22	11	0.19
(1,5689)	1:137:A:ILE:HA	1:138:A:ASN:HD21	3	0.19
(1,5689)	1:137:A:ILE:HA	1:138:A:ASN:HD22	3	0.19
(1,5681)	1:94:A:TRP:HZ3	1:94:A:TRP:H	1	0.19
(1,5642)	1:143:A:LEU:HG	1:191:A:ASN:HD21	10	0.19
(1,5642)	1:143:A:LEU:HG	1:191:A:ASN:HD22	10	0.19
(1,5602)	1:34:A:ILE:HG22	1:53:A:SER:H	1	0.19
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	2	0.19
(1,5534)	1:47:A:ILE:HB	1:81:A:ALA:H	16	0.19
(1,5534)	1:78:A:LEU:HB3	1:81:A:ALA:H	18	0.19
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	1	0.19
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	1	0.19
(1,5491)	1:37:A:LYS:H	1:37:A:LYS:HE2	7	0.19
(1,5491)	1:37:A:LYS:H	1:37:A:LYS:HE3	7	0.19
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	20	0.19
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	20	0.19
(1,5430)	1:24:A:LEU:H	1:46:A:PHE:HE1	20	0.19
(1,5430)	1:24:A:LEU:H	1:46:A:PHE:HE2	20	0.19
(1,5396)	1:124:A:GLN:H	1:126:A:LEU:HB2	10	0.19
(1,5396)	1:124:A:GLN:H	1:126:A:LEU:HB3	10	0.19
(1,5394)	1:59:A:ILE:H	1:56:A:ARG:H	12	0.19
(1,5359)	1:6:A:GLY:H	1:25:A:VAL:H	7	0.19
(1,5331)	1:75:A:LYS:H	1:71:A:GLU:HG2	11	0.19
(1,5331)	1:75:A:LYS:H	1:71:A:GLU:HG3	11	0.19
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB2	4	0.19
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB3	4	0.19
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	3	0.19
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	6	0.19
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	6	0.19
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	6	0.19
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	6	0.19
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	6	0.19
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	6	0.19
(1,5290)	1:73:A:SER:H	1:79:A:GLN:HG2	7	0.19
(1,5290)	1:73:A:SER:H	1:79:A:GLN:HG3	7	0.19
(1,5233)	1:1:A:ASN:HD22	1:9:A:VAL:HB	20	0.19
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	5	0.19
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	5	0.19
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	5	0.19
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB2	5	0.19
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB3	5	0.19
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB2	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB3	9	0.19
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	13	0.19
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	13	0.19
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	13	0.19
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD11	8	0.19
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD12	8	0.19
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD13	8	0.19
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD21	8	0.19
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD22	8	0.19
(1,5128)	1:197:A:ARG:H	1:153:A:LEU:HD23	8	0.19
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG11	10	0.19
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG12	10	0.19
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG13	10	0.19
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG21	10	0.19
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG22	10	0.19
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG23	10	0.19
(1,5118)	1:7:A:LYS:H	1:5:A:LEU:HG	16	0.19
(1,5070)	1:40:A:GLN:H	1:56:A:ARG:H	16	0.19
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD11	6	0.19
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD12	6	0.19
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD13	6	0.19
(1,5053)	1:78:A:LEU:H	1:72:A:LEU:HB2	17	0.19
(1,5053)	1:78:A:LEU:H	1:72:A:LEU:HB3	17	0.19
(1,5052)	1:78:A:LEU:H	1:78:A:LEU:HB2	9	0.19
(1,5052)	1:78:A:LEU:H	1:78:A:LEU:HB3	9	0.19
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	20	0.19
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	20	0.19
(1,4975)	1:75:A:LYS:H	1:74:A:THR:HB	13	0.19
(1,4970)	1:64:A:ILE:H	1:65:A:LEU:HA	3	0.19
(1,4933)	1:46:A:PHE:H	1:24:A:LEU:HD11	15	0.19
(1,4933)	1:46:A:PHE:H	1:24:A:LEU:HD12	15	0.19
(1,4933)	1:46:A:PHE:H	1:24:A:LEU:HD13	15	0.19
(1,4933)	1:46:A:PHE:H	1:24:A:LEU:HD21	15	0.19
(1,4933)	1:46:A:PHE:H	1:24:A:LEU:HD22	15	0.19
(1,4933)	1:46:A:PHE:H	1:24:A:LEU:HD23	15	0.19
(1,4911)	1:172:A:TRP:HE1	1:166:A:ILE:HA	13	0.19
(1,3721)	1:18:A:THR:HB	1:19:A:GLU:H	6	0.19
(1,3604)	1:149:A:ASN:HB2	1:150:A:LEU:H	13	0.19
(1,3604)	1:149:A:ASN:HB3	1:150:A:LEU:H	13	0.19
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB2	15	0.19
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB3	15	0.19
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB2	15	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB3	15	0.19
(1,3505)	1:197:A:ARG:HG2	1:197:A:ARG:HA	10	0.19
(1,3505)	1:197:A:ARG:HG3	1:197:A:ARG:HA	20	0.19
(1,3490)	1:16:A:GLU:H	1:14:A:ALA:HA	4	0.19
(1,3490)	1:16:A:GLU:H	1:14:A:ALA:HA	18	0.19
(1,3431)	1:83:A:ILE:HG22	1:87:A:THR:HG21	4	0.19
(1,3431)	1:83:A:ILE:HG22	1:87:A:THR:HG22	4	0.19
(1,3431)	1:83:A:ILE:HG22	1:87:A:THR:HG23	4	0.19
(1,3390)	1:83:A:ILE:HG12	1:86:A:LYS:HE2	9	0.19
(1,3390)	1:83:A:ILE:HG12	1:86:A:LYS:HE3	9	0.19
(1,3390)	1:83:A:ILE:HG13	1:86:A:LYS:HE2	9	0.19
(1,3390)	1:83:A:ILE:HG13	1:86:A:LYS:HE3	9	0.19
(1,3390)	1:83:A:ILE:HG12	1:86:A:LYS:HE2	10	0.19
(1,3390)	1:83:A:ILE:HG12	1:86:A:LYS:HE3	10	0.19
(1,3390)	1:83:A:ILE:HG13	1:86:A:LYS:HE2	10	0.19
(1,3390)	1:83:A:ILE:HG13	1:86:A:LYS:HE3	10	0.19
(1,3385)	1:7:A:LYS:HG3	1:9:A:VAL:HG11	14	0.19
(1,3385)	1:7:A:LYS:HG3	1:9:A:VAL:HG12	14	0.19
(1,3385)	1:7:A:LYS:HG3	1:9:A:VAL:HG13	14	0.19
(1,3385)	1:7:A:LYS:HG3	1:9:A:VAL:HG21	14	0.19
(1,3385)	1:7:A:LYS:HG3	1:9:A:VAL:HG22	14	0.19
(1,3385)	1:7:A:LYS:HG3	1:9:A:VAL:HG23	14	0.19
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG2	4	0.19
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG3	4	0.19
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG2	4	0.19
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG3	4	0.19
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG2	19	0.19
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG3	19	0.19
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG2	19	0.19
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG3	19	0.19
(1,3346)	1:177:A:MET:HE1	1:183:A:ILE:HD11	14	0.19
(1,3346)	1:177:A:MET:HE1	1:183:A:ILE:HD12	14	0.19
(1,3346)	1:177:A:MET:HE1	1:183:A:ILE:HD13	14	0.19
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD11	13	0.19
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD12	13	0.19
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD13	13	0.19
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD21	13	0.19
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD22	13	0.19
(1,3253)	1:86:A:LYS:HA	1:65:A:LEU:HD23	13	0.19
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	11	0.19
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	11	0.19
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	12	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	12	0.19
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG21	3	0.19
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG22	3	0.19
(1,3161)	1:181:A:ILE:H	1:181:A:ILE:HG23	3	0.19
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	13	0.19
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	13	0.19
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	13	0.19
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG2	9	0.19
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG3	9	0.19
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	5	0.19
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	5	0.19
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	5	0.19
(1,3102)	1:90:A:VAL:H	1:85:A:LEU:HD11	4	0.19
(1,3102)	1:90:A:VAL:H	1:85:A:LEU:HD12	4	0.19
(1,3102)	1:90:A:VAL:H	1:85:A:LEU:HD13	4	0.19
(1,3102)	1:90:A:VAL:H	1:85:A:LEU:HD21	4	0.19
(1,3102)	1:90:A:VAL:H	1:85:A:LEU:HD22	4	0.19
(1,3102)	1:90:A:VAL:H	1:85:A:LEU:HD23	4	0.19
(1,3087)	1:85:A:LEU:H	1:83:A:ILE:HG21	17	0.19
(1,3087)	1:85:A:LEU:H	1:83:A:ILE:HG22	17	0.19
(1,3087)	1:85:A:LEU:H	1:83:A:ILE:HG23	17	0.19
(1,3053)	1:55:A:ALA:HB1	1:40:A:GLN:HA	2	0.19
(1,2948)	1:63:A:ASP:HB3	1:64:A:ILE:HA	10	0.19
(1,2946)	1:190:A:TYR:HB2	1:189:A:SER:HB2	20	0.19
(1,2946)	1:190:A:TYR:HB2	1:189:A:SER:HB3	20	0.19
(1,2920)	1:54:A:ILE:HD13	1:52:A:TYR:HA	6	0.19
(1,2826)	1:59:A:ILE:HB	1:61:A:GLU:HG2	20	0.19
(1,2826)	1:59:A:ILE:HB	1:61:A:GLU:HG3	20	0.19
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD11	17	0.19
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD12	17	0.19
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD13	17	0.19
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD21	17	0.19
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD22	17	0.19
(1,2759)	1:71:A:GLU:HB3	1:67:A:LEU:HD23	17	0.19
(1,2685)	1:67:A:LEU:HD13	1:71:A:GLU:HB2	6	0.19
(1,2685)	1:67:A:LEU:HD13	1:71:A:GLU:HB3	6	0.19
(1,2682)	1:62:A:VAL:HB	1:9:A:VAL:HB	5	0.19
(1,2643)	1:187:A:ALA:HB1	1:190:A:TYR:HB2	19	0.19
(1,2643)	1:187:A:ALA:HB1	1:190:A:TYR:HB3	19	0.19
(1,2587)	1:137:A:ILE:HG13	1:127:A:TYR:HA	4	0.19
(1,2577)	1:166:A:ILE:HD13	1:160:A:GLN:HA	8	0.19
(1,2548)	1:150:A:LEU:HD22	1:141:A:PRO:HA	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2471)	1:12:A:VAL:HG11	1:17:A:ARG:HE	16	0.19
(1,2425)	1:54:A:ILE:HG23	1:12:A:VAL:H	4	0.19
(1,2400)	1:34:A:ILE:HD13	1:52:A:TYR:H	2	0.19
(1,2389)	1:42:A:LEU:HG	1:36:A:VAL:H	18	0.19
(1,2257)	1:101:A:ILE:HA	1:100:A:GLU:H	11	0.19
(1,2212)	1:138:A:ASN:HD21	1:137:A:ILE:HA	3	0.19
(1,2212)	1:138:A:ASN:HD22	1:137:A:ILE:HA	3	0.19
(1,2050)	1:201:A:TYR:H	1:137:A:ILE:HD11	3	0.19
(1,2050)	1:201:A:TYR:H	1:137:A:ILE:HD12	3	0.19
(1,2050)	1:201:A:TYR:H	1:137:A:ILE:HD13	3	0.19
(1,732)	1:142:A:VAL:H	1:142:A:VAL:HB	6	0.19
(1,732)	1:142:A:VAL:H	1:142:A:VAL:HB	13	0.19
(1,283)	1:88:A:ARG:HE	1:84:A:PHE:HA	17	0.19
(1,249)	1:133:A:ARG:H	1:136:A:PRO:HA	16	0.19
(1,5835)	1:110:A:LYS:HA	1:110:A:LYS:H	11	0.18
(1,5815)	1:211:A:ASN:HB2	1:212:A:ILE:HD11	3	0.18
(1,5815)	1:211:A:ASN:HB2	1:212:A:ILE:HD12	3	0.18
(1,5815)	1:211:A:ASN:HB2	1:212:A:ILE:HD13	3	0.18
(1,5815)	1:211:A:ASN:HB3	1:212:A:ILE:HD11	3	0.18
(1,5815)	1:211:A:ASN:HB3	1:212:A:ILE:HD12	3	0.18
(1,5815)	1:211:A:ASN:HB3	1:212:A:ILE:HD13	3	0.18
(1,5815)	1:211:A:ASN:HB2	1:212:A:ILE:HD11	15	0.18
(1,5815)	1:211:A:ASN:HB2	1:212:A:ILE:HD12	15	0.18
(1,5815)	1:211:A:ASN:HB2	1:212:A:ILE:HD13	15	0.18
(1,5815)	1:211:A:ASN:HB3	1:212:A:ILE:HD11	15	0.18
(1,5815)	1:211:A:ASN:HB3	1:212:A:ILE:HD12	15	0.18
(1,5815)	1:211:A:ASN:HB3	1:212:A:ILE:HD13	15	0.18
(1,5810)	1:61:A:GLU:HB3	1:59:A:ILE:HG21	7	0.18
(1,5810)	1:61:A:GLU:HB3	1:59:A:ILE:HG22	7	0.18
(1,5810)	1:61:A:GLU:HB3	1:59:A:ILE:HG23	7	0.18
(1,5807)	1:2:A:ASP:H	1:2:A:ASP:HB2	14	0.18
(1,5807)	1:2:A:ASP:H	1:2:A:ASP:HB3	14	0.18
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD21	7	0.18
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD22	7	0.18
(1,5690)	1:65:A:LEU:HA	1:66:A:ASN:HD21	10	0.18
(1,5690)	1:65:A:LEU:HA	1:66:A:ASN:HD22	10	0.18
(1,5679)	1:139:A:LYS:HD2	1:138:A:ASN:HD21	9	0.18
(1,5679)	1:139:A:LYS:HD2	1:138:A:ASN:HD22	9	0.18
(1,5679)	1:139:A:LYS:HD3	1:138:A:ASN:HD21	9	0.18
(1,5679)	1:139:A:LYS:HD3	1:138:A:ASN:HD22	9	0.18
(1,5642)	1:143:A:LEU:HG	1:191:A:ASN:HD21	18	0.18
(1,5642)	1:143:A:LEU:HG	1:191:A:ASN:HD22	18	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	18	0.18
(1,5578)	1:38:A:LYS:HA	1:40:A:GLN:H	17	0.18
(1,5522)	1:9:A:VAL:HG23	1:23:A:ALA:H	7	0.18
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	18	0.18
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	18	0.18
(1,5491)	1:37:A:LYS:H	1:37:A:LYS:HE2	18	0.18
(1,5491)	1:37:A:LYS:H	1:37:A:LYS:HE3	18	0.18
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	10	0.18
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	10	0.18
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	20	0.18
(1,5453)	1:172:A:TRP:H	1:174:A:GLN:HB2	15	0.18
(1,5453)	1:172:A:TRP:H	1:174:A:GLN:HB3	15	0.18
(1,5430)	1:24:A:LEU:H	1:46:A:PHE:HE1	15	0.18
(1,5430)	1:24:A:LEU:H	1:46:A:PHE:HE2	15	0.18
(1,5428)	1:23:A:ALA:H	1:46:A:PHE:HD1	16	0.18
(1,5428)	1:23:A:ALA:H	1:46:A:PHE:HD2	16	0.18
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE1	19	0.18
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE2	19	0.18
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE1	20	0.18
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE2	20	0.18
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG12	18	0.18
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG13	18	0.18
(1,5396)	1:124:A:GLN:H	1:126:A:LEU:HB2	6	0.18
(1,5396)	1:124:A:GLN:H	1:126:A:LEU:HB3	6	0.18
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG2	1	0.18
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG3	1	0.18
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	19	0.18
(1,5290)	1:73:A:SER:H	1:79:A:GLN:HG2	11	0.18
(1,5290)	1:73:A:SER:H	1:79:A:GLN:HG3	11	0.18
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	15	0.18
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	15	0.18
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	15	0.18
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB2	10	0.18
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB3	10	0.18
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB2	15	0.18
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB3	15	0.18
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB2	18	0.18
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB3	18	0.18
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD11	2	0.18
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD12	2	0.18
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD13	2	0.18
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG11	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG12	5	0.18
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG13	5	0.18
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG21	5	0.18
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG22	5	0.18
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG23	5	0.18
(1,5118)	1:7:A:LYS:H	1:5:A:LEU:HG	12	0.18
(1,5070)	1:40:A:GLN:H	1:56:A:ARG:H	19	0.18
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	2	0.18
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	2	0.18
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	15	0.18
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	15	0.18
(1,5041)	1:20:A:TRP:H	1:19:A:GLU:HG2	20	0.18
(1,5041)	1:20:A:TRP:H	1:19:A:GLU:HG3	20	0.18
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG21	9	0.18
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG22	9	0.18
(1,5008)	1:64:A:ILE:H	1:64:A:ILE:HG23	9	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD11	4	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD12	4	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD13	4	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD21	4	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD22	4	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD23	4	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD11	8	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD12	8	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD13	8	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD21	8	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD22	8	0.18
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD23	8	0.18
(1,3871)	1:198:A:LYS:HB2	1:201:A:TYR:H	8	0.18
(1,3871)	1:198:A:LYS:HB3	1:201:A:TYR:H	8	0.18
(1,3869)	1:153:A:LEU:HG	1:179:A:LEU:H	1	0.18
(1,3848)	1:223:A:GLU:HG2	1:223:A:GLU:H	19	0.18
(1,3848)	1:223:A:GLU:HG3	1:223:A:GLU:H	19	0.18
(1,3490)	1:16:A:GLU:H	1:14:A:ALA:HA	17	0.18
(1,3490)	1:16:A:GLU:H	1:14:A:ALA:HA	20	0.18
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB2	7	0.18
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB3	7	0.18
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB2	18	0.18
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB3	18	0.18
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB2	18	0.18
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB3	18	0.18
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB2	18	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB3	18	0.18
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB2	18	0.18
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB3	18	0.18
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB2	18	0.18
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB3	18	0.18
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB2	18	0.18
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB3	18	0.18
(1,3429)	1:184:A:LEU:HD11	1:182:A:PRO:HG2	5	0.18
(1,3429)	1:184:A:LEU:HD11	1:182:A:PRO:HG3	5	0.18
(1,3429)	1:184:A:LEU:HD12	1:182:A:PRO:HG2	5	0.18
(1,3429)	1:184:A:LEU:HD12	1:182:A:PRO:HG3	5	0.18
(1,3429)	1:184:A:LEU:HD13	1:182:A:PRO:HG2	5	0.18
(1,3429)	1:184:A:LEU:HD13	1:182:A:PRO:HG3	5	0.18
(1,3429)	1:184:A:LEU:HD21	1:182:A:PRO:HG2	5	0.18
(1,3429)	1:184:A:LEU:HD21	1:182:A:PRO:HG3	5	0.18
(1,3429)	1:184:A:LEU:HD22	1:182:A:PRO:HG2	5	0.18
(1,3429)	1:184:A:LEU:HD22	1:182:A:PRO:HG3	5	0.18
(1,3429)	1:184:A:LEU:HD23	1:182:A:PRO:HG2	5	0.18
(1,3429)	1:184:A:LEU:HD23	1:182:A:PRO:HG3	5	0.18
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE2	4	0.18
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE3	4	0.18
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE2	4	0.18
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE3	4	0.18
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE2	4	0.18
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE3	4	0.18
(1,3390)	1:83:A:ILE:HG12	1:86:A:LYS:HE2	7	0.18
(1,3390)	1:83:A:ILE:HG12	1:86:A:LYS:HE3	7	0.18
(1,3390)	1:83:A:ILE:HG13	1:86:A:LYS:HE2	7	0.18
(1,3390)	1:83:A:ILE:HG13	1:86:A:LYS:HE3	7	0.18
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG2	10	0.18
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG3	10	0.18
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG2	10	0.18
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG3	10	0.18
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG2	18	0.18
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG3	18	0.18
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG2	18	0.18
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG3	18	0.18
(1,3379)	1:75:A:LYS:HG2	1:19:A:GLU:HG2	2	0.18
(1,3379)	1:75:A:LYS:HG2	1:19:A:GLU:HG3	2	0.18
(1,3351)	1:17:A:ARG:HB2	1:60:A:LYS:HB2	8	0.18
(1,3351)	1:17:A:ARG:HB2	1:60:A:LYS:HB3	8	0.18
(1,3351)	1:17:A:ARG:HB3	1:60:A:LYS:HB2	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3351)	1:17:A:ARG:HB3	1:60:A:LYS:HB3	8	0.18
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	12	0.18
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	12	0.18
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	12	0.18
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	16	0.18
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	16	0.18
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	16	0.18
(1,3289)	1:68:A:PRO:HD2	1:72:A:LEU:HG	20	0.18
(1,3236)	1:17:A:ARG:HA	1:17:A:ARG:HD2	11	0.18
(1,3236)	1:17:A:ARG:HA	1:17:A:ARG:HD3	11	0.18
(1,3221)	1:170:A:ALA:HA	1:173:A:LYS:HD2	14	0.18
(1,3221)	1:170:A:ALA:HA	1:173:A:LYS:HD3	14	0.18
(1,3197)	1:18:A:THR:HB	1:75:A:LYS:HD2	5	0.18
(1,3197)	1:18:A:THR:HB	1:75:A:LYS:HD3	5	0.18
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	7	0.18
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	7	0.18
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	14	0.18
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	14	0.18
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	17	0.18
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	17	0.18
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	18	0.18
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	18	0.18
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	15	0.18
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	15	0.18
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	15	0.18
(1,3089)	1:57:A:LYS:H	1:57:A:LYS:HE2	20	0.18
(1,3089)	1:57:A:LYS:H	1:57:A:LYS:HE3	20	0.18
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG2	18	0.18
(1,3082)	1:38:A:LYS:H	1:37:A:LYS:HG3	18	0.18
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG11	12	0.18
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG12	12	0.18
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG13	12	0.18
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG21	12	0.18
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG22	12	0.18
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG23	12	0.18
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG21	5	0.18
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG22	5	0.18
(1,3063)	1:207:A:CYS:H	1:212:A:ILE:HG23	5	0.18
(1,2975)	1:179:A:LEU:HD12	1:176:A:TYR:HA	2	0.18
(1,2973)	1:85:A:LEU:HB2	1:82:A:SER:HA	3	0.18
(1,2973)	1:85:A:LEU:HB2	1:82:A:SER:HA	6	0.18
(1,2973)	1:85:A:LEU:HB2	1:82:A:SER:HA	9	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2973)	1:85:A:LEU:HB2	1:82:A:SER:HA	10	0.18
(1,2948)	1:63:A:ASP:HB3	1:64:A:ILE:HA	2	0.18
(1,2948)	1:96:A:MET:HG2	1:101:A:ILE:HA	9	0.18
(1,2903)	1:11:A:VAL:HG11	1:54:A:ILE:HB	17	0.18
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	3	0.18
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	4	0.18
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	6	0.18
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	7	0.18
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	10	0.18
(1,2869)	1:194:A:THR:HB	1:190:A:TYR:HD1	11	0.18
(1,2869)	1:194:A:THR:HB	1:190:A:TYR:HD2	11	0.18
(1,2869)	1:194:A:THR:HB	1:190:A:TYR:HD1	12	0.18
(1,2869)	1:194:A:THR:HB	1:190:A:TYR:HD2	12	0.18
(1,2866)	1:210:A:ALA:HA	1:212:A:ILE:HG12	13	0.18
(1,2866)	1:210:A:ALA:HA	1:212:A:ILE:HG13	13	0.18
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG21	18	0.18
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG22	18	0.18
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG23	18	0.18
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG11	19	0.18
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG12	19	0.18
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG13	19	0.18
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG21	19	0.18
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG22	19	0.18
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG23	19	0.18
(1,2578)	1:64:A:ILE:HD13	1:62:A:VAL:HA	17	0.18
(1,2571)	1:130:A:MET:HE3	1:136:A:PRO:HA	8	0.18
(1,2552)	1:101:A:ILE:HG23	1:102:A:LEU:HA	2	0.18
(1,2549)	1:36:A:VAL:HG11	1:37:A:LYS:HA	11	0.18
(1,2549)	1:36:A:VAL:HG11	1:37:A:LYS:HA	18	0.18
(1,2530)	1:36:A:VAL:HG11	1:37:A:LYS:HA	11	0.18
(1,2530)	1:36:A:VAL:HG11	1:37:A:LYS:HA	18	0.18
(1,2496)	1:46:A:PHE:HD2	1:23:A:ALA:HB1	4	0.18
(1,2496)	1:46:A:PHE:HD2	1:23:A:ALA:HB2	4	0.18
(1,2496)	1:46:A:PHE:HD2	1:23:A:ALA:HB3	4	0.18
(1,2496)	1:46:A:PHE:HD2	1:23:A:ALA:HB1	15	0.18
(1,2496)	1:46:A:PHE:HD2	1:23:A:ALA:HB2	15	0.18
(1,2496)	1:46:A:PHE:HD2	1:23:A:ALA:HB3	15	0.18
(1,2485)	1:34:A:ILE:HG12	1:51:A:PHE:HD1	1	0.18
(1,2485)	1:34:A:ILE:HG12	1:51:A:PHE:HD2	1	0.18
(1,2454)	1:78:A:LEU:HD21	1:78:A:LEU:H	13	0.18
(1,2435)	1:153:A:LEU:HG	1:179:A:LEU:H	1	0.18
(1,2400)	1:34:A:ILE:HD11	1:52:A:TYR:H	14	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2390)	1:8:A:VAL:HG11	1:24:A:LEU:H	4	0.18
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG11	6	0.18
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG12	6	0.18
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG13	6	0.18
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG21	6	0.18
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG22	6	0.18
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG23	6	0.18
(1,2205)	1:40:A:GLN:HB2	1:54:A:ILE:HG21	12	0.18
(1,2205)	1:40:A:GLN:HB2	1:54:A:ILE:HG22	12	0.18
(1,2205)	1:40:A:GLN:HB2	1:54:A:ILE:HG23	12	0.18
(1,2205)	1:40:A:GLN:HB3	1:54:A:ILE:HG21	12	0.18
(1,2205)	1:40:A:GLN:HB3	1:54:A:ILE:HG22	12	0.18
(1,2205)	1:40:A:GLN:HB3	1:54:A:ILE:HG23	12	0.18
(1,353)	1:145:A:TYR:HD1	1:145:A:TYR:HA	11	0.18
(1,353)	1:145:A:TYR:HD2	1:145:A:TYR:HA	11	0.18
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD21	2	0.18
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD22	2	0.18
(1,152)	1:176:A:TYR:HE2	1:181:A:ILE:HB	13	0.18
(1,128)	1:51:A:PHE:HD1	1:44:A:ARG:HG2	13	0.18
(1,128)	1:51:A:PHE:HD1	1:44:A:ARG:HG3	13	0.18
(2,92)	1:50:A:LYS:CB	1:130:A:MET:N	13	0.17
(1,5782)	1:153:A:LEU:HD13	1:179:A:LEU:HD11	6	0.17
(1,5782)	1:153:A:LEU:HD13	1:179:A:LEU:HD12	6	0.17
(1,5782)	1:153:A:LEU:HD13	1:179:A:LEU:HD13	6	0.17
(1,5782)	1:153:A:LEU:HD13	1:179:A:LEU:HD21	6	0.17
(1,5782)	1:153:A:LEU:HD13	1:179:A:LEU:HD22	6	0.17
(1,5782)	1:153:A:LEU:HD13	1:179:A:LEU:HD23	6	0.17
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	6	0.17
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	11	0.17
(1,5554)	1:128:A:LYS:HB2	1:129:A:PHE:H	13	0.17
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	13	0.17
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	13	0.17
(1,5474)	1:196:A:TYR:H	1:194:A:THR:HB	18	0.17
(1,5446)	1:64:A:ILE:H	1:82:A:SER:HA	4	0.17
(1,5416)	1:10:A:SER:H	1:61:A:GLU:HB2	12	0.17
(1,5416)	1:10:A:SER:H	1:61:A:GLU:HB3	12	0.17
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE1	16	0.17
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE2	16	0.17
(1,5397)	1:127:A:TYR:H	1:123:A:LEU:HD11	1	0.17
(1,5397)	1:127:A:TYR:H	1:123:A:LEU:HD12	1	0.17
(1,5397)	1:127:A:TYR:H	1:123:A:LEU:HD13	1	0.17
(1,5397)	1:127:A:TYR:H	1:123:A:LEU:HD21	1	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5397)	1:127:A:TYR:H	1:123:A:LEU:HD22	1	0.17
(1,5397)	1:127:A:TYR:H	1:123:A:LEU:HD23	1	0.17
(1,5394)	1:59:A:ILE:H	1:56:A:ARG:H	3	0.17
(1,5361)	1:199:A:TYR:H	1:197:A:ARG:HB2	8	0.17
(1,5361)	1:199:A:TYR:H	1:197:A:ARG:HB3	8	0.17
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB1	2	0.17
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB2	2	0.17
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB3	2	0.17
(1,5314)	1:20:A:TRP:HE1	1:18:A:THR:HG21	9	0.17
(1,5314)	1:20:A:TRP:HE1	1:18:A:THR:HG22	9	0.17
(1,5314)	1:20:A:TRP:HE1	1:18:A:THR:HG23	9	0.17
(1,5313)	1:20:A:TRP:HE1	1:71:A:GLU:HG2	20	0.17
(1,5313)	1:20:A:TRP:HE1	1:71:A:GLU:HG3	20	0.17
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	3	0.17
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	3	0.17
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	3	0.17
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	3	0.17
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	3	0.17
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	3	0.17
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD11	11	0.17
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD12	11	0.17
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD13	11	0.17
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD21	11	0.17
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD22	11	0.17
(1,5299)	1:73:A:SER:H	1:72:A:LEU:HD23	11	0.17
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG2	14	0.17
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG3	14	0.17
(1,5279)	1:29:A:SER:H	1:42:A:LEU:HD11	19	0.17
(1,5279)	1:29:A:SER:H	1:42:A:LEU:HD12	19	0.17
(1,5279)	1:29:A:SER:H	1:42:A:LEU:HD13	19	0.17
(1,5279)	1:29:A:SER:H	1:42:A:LEU:HD21	19	0.17
(1,5279)	1:29:A:SER:H	1:42:A:LEU:HD22	19	0.17
(1,5279)	1:29:A:SER:H	1:42:A:LEU:HD23	19	0.17
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD21	13	0.17
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD22	13	0.17
(1,5233)	1:1:A:ASN:HD21	1:61:A:GLU:HG2	19	0.17
(1,5233)	1:1:A:ASN:HD21	1:61:A:GLU:HG3	19	0.17
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD11	17	0.17
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD12	17	0.17
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD13	17	0.17
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD21	17	0.17
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD22	17	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD23	17	0.17
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG11	7	0.17
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG12	7	0.17
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG13	7	0.17
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG21	7	0.17
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG22	7	0.17
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG23	7	0.17
(1,4970)	1:64:A:ILE:H	1:65:A:LEU:HA	1	0.17
(1,4911)	1:172:A:TRP:HE1	1:166:A:ILE:HA	18	0.17
(1,3502)	1:22:A:PRO:HB2	1:21:A:TYR:HA	5	0.17
(1,3502)	1:22:A:PRO:HB2	1:21:A:TYR:HA	10	0.17
(1,3477)	1:64:A:ILE:H	1:65:A:LEU:HB2	14	0.17
(1,3477)	1:64:A:ILE:H	1:65:A:LEU:HB3	14	0.17
(1,3448)	1:43:A:VAL:HG11	1:41:A:CYS:HB2	10	0.17
(1,3448)	1:43:A:VAL:HG11	1:41:A:CYS:HB3	10	0.17
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB2	12	0.17
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB3	12	0.17
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB2	12	0.17
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB3	12	0.17
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB2	12	0.17
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB3	12	0.17
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB2	12	0.17
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB3	12	0.17
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB2	12	0.17
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB3	12	0.17
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB2	12	0.17
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB3	12	0.17
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG11	4	0.17
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG12	4	0.17
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG13	4	0.17
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG21	4	0.17
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG22	4	0.17
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG23	4	0.17
(1,3399)	1:64:A:ILE:HG13	1:62:A:VAL:HB	15	0.17
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	6	0.17
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	6	0.17
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	6	0.17
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD11	9	0.17
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD12	9	0.17
(1,3346)	1:79:A:GLN:HB3	1:83:A:ILE:HD13	9	0.17
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD11	2	0.17
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD12	2	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD13	2	0.17
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD21	2	0.17
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD22	2	0.17
(1,3341)	1:153:A:LEU:HB2	1:179:A:LEU:HD23	2	0.17
(1,3270)	1:144:A:GLY:HA3	1:146:A:LYS:HD2	9	0.17
(1,3270)	1:144:A:GLY:HA3	1:146:A:LYS:HD3	9	0.17
(1,3256)	1:13:A:SER:HB2	1:15:A:THR:HG21	19	0.17
(1,3256)	1:13:A:SER:HB2	1:15:A:THR:HG22	19	0.17
(1,3256)	1:13:A:SER:HB2	1:15:A:THR:HG23	19	0.17
(1,3201)	1:2:A:ASP:HA	1:5:A:LEU:HG	18	0.17
(1,3145)	1:127:A:TYR:HD1	1:96:A:MET:HG2	10	0.17
(1,3145)	1:127:A:TYR:HD1	1:96:A:MET:HG3	10	0.17
(1,3145)	1:127:A:TYR:HD2	1:96:A:MET:HG2	10	0.17
(1,3145)	1:127:A:TYR:HD2	1:96:A:MET:HG3	10	0.17
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG11	4	0.17
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG12	4	0.17
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG13	4	0.17
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG21	4	0.17
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG22	4	0.17
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG23	4	0.17
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG11	19	0.17
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG12	19	0.17
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG13	19	0.17
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG21	19	0.17
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG22	19	0.17
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG23	19	0.17
(1,2978)	1:98:A:ILE:HG13	1:98:A:ILE:HA	11	0.17
(1,2977)	1:62:A:VAL:HB	1:62:A:VAL:HA	7	0.17
(1,2975)	1:179:A:LEU:HD21	1:176:A:TYR:HA	12	0.17
(1,2975)	1:179:A:LEU:HD12	1:176:A:TYR:HA	18	0.17
(1,2973)	1:85:A:LEU:HB2	1:82:A:SER:HA	2	0.17
(1,2947)	1:30:A:CYS:HB2	1:29:A:SER:HB2	12	0.17
(1,2947)	1:30:A:CYS:HB2	1:29:A:SER:HB3	12	0.17
(1,2887)	1:101:A:ILE:HB	1:99:A:SER:H	13	0.17
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	12	0.17
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	13	0.17
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	16	0.17
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	17	0.17
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG21	16	0.17
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG22	16	0.17
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG23	16	0.17
(1,2841)	1:166:A:ILE:HD13	1:157:A:VAL:H	8	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2826)	1:59:A:ILE:HB	1:9:A:VAL:HB	10	0.17
(1,2766)	1:55:A:ALA:HB1	1:54:A:ILE:HG21	1	0.17
(1,2766)	1:55:A:ALA:HB1	1:54:A:ILE:HG22	1	0.17
(1,2766)	1:55:A:ALA:HB1	1:54:A:ILE:HG23	1	0.17
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG2	15	0.17
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG3	15	0.17
(1,2639)	1:11:A:VAL:HG11	1:20:A:TRP:HB2	4	0.17
(1,2639)	1:11:A:VAL:HG11	1:20:A:TRP:HB3	4	0.17
(1,2639)	1:11:A:VAL:HG12	1:20:A:TRP:HB2	15	0.17
(1,2639)	1:11:A:VAL:HG12	1:20:A:TRP:HB3	15	0.17
(1,2587)	1:137:A:ILE:HG13	1:127:A:TYR:HA	2	0.17
(1,2578)	1:64:A:ILE:HD12	1:62:A:VAL:HA	9	0.17
(1,2562)	1:72:A:LEU:HG	1:69:A:GLU:HA	9	0.17
(1,2561)	1:65:A:LEU:HG	1:65:A:LEU:HA	14	0.17
(1,2551)	1:98:A:ILE:HG23	1:98:A:ILE:HA	5	0.17
(1,2546)	1:222:A:LEU:HG	1:222:A:LEU:HA	5	0.17
(1,2474)	1:101:A:ILE:HD12	1:127:A:TYR:HD1	3	0.17
(1,2474)	1:101:A:ILE:HD12	1:127:A:TYR:HD2	3	0.17
(1,2458)	1:171:A:VAL:HG12	1:174:A:GLN:H	4	0.17
(1,2443)	1:83:A:ILE:HD12	1:83:A:ILE:H	16	0.17
(1,2428)	1:64:A:ILE:HD13	1:65:A:LEU:H	12	0.17
(1,2411)	1:88:A:ARG:HD2	1:88:A:ARG:H	8	0.17
(1,2400)	1:34:A:ILE:HD11	1:52:A:TYR:H	3	0.17
(1,2389)	1:42:A:LEU:HG	1:36:A:VAL:H	20	0.17
(1,1218)	1:62:A:VAL:HA	1:62:A:VAL:HB	7	0.17
(1,1218)	1:62:A:VAL:HA	1:62:A:VAL:HB	20	0.17
(1,750)	1:114:A:LEU:H	1:114:A:LEU:HG	2	0.17
(1,693)	1:85:A:LEU:H	1:85:A:LEU:HG	17	0.17
(1,625)	1:143:A:LEU:H	1:142:A:VAL:HB	7	0.17
(1,625)	1:143:A:LEU:H	1:142:A:VAL:HB	12	0.17
(1,353)	1:145:A:TYR:HD1	1:145:A:TYR:HA	6	0.17
(1,353)	1:145:A:TYR:HD2	1:145:A:TYR:HA	6	0.17
(1,353)	1:145:A:TYR:HD1	1:145:A:TYR:HA	13	0.17
(1,353)	1:145:A:TYR:HD2	1:145:A:TYR:HA	13	0.17
(1,353)	1:145:A:TYR:HD1	1:145:A:TYR:HA	20	0.17
(1,353)	1:145:A:TYR:HD2	1:145:A:TYR:HA	20	0.17
(1,263)	1:137:A:ILE:HG12	1:136:A:PRO:HA	16	0.17
(1,263)	1:137:A:ILE:HG13	1:136:A:PRO:HA	16	0.17
(1,132)	1:154:A:PHE:HD1	1:158:A:TYR:HB2	12	0.17
(1,132)	1:154:A:PHE:HD1	1:158:A:TYR:HB3	12	0.17
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD11	20	0.17
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD12	20	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD13	20	0.17
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD21	20	0.17
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD22	20	0.17
(1,120)	1:199:A:TYR:HE2	1:143:A:LEU:HD23	20	0.17
(1,16)	1:212:A:ILE:HD11	1:203:A:PHE:HD1	12	0.17
(1,16)	1:212:A:ILE:HD11	1:203:A:PHE:HD2	12	0.17
(1,16)	1:212:A:ILE:HD12	1:203:A:PHE:HD1	12	0.17
(1,16)	1:212:A:ILE:HD12	1:203:A:PHE:HD2	12	0.17
(1,16)	1:212:A:ILE:HD13	1:203:A:PHE:HD1	12	0.17
(1,16)	1:212:A:ILE:HD13	1:203:A:PHE:HD2	12	0.17
(1,5848)	1:113:A:GLU:HB3	1:114:A:LEU:HG	4	0.16
(1,5815)	1:211:A:ASN:HB2	1:212:A:ILE:HD11	7	0.16
(1,5815)	1:211:A:ASN:HB2	1:212:A:ILE:HD12	7	0.16
(1,5815)	1:211:A:ASN:HB2	1:212:A:ILE:HD13	7	0.16
(1,5815)	1:211:A:ASN:HB3	1:212:A:ILE:HD11	7	0.16
(1,5815)	1:211:A:ASN:HB3	1:212:A:ILE:HD12	7	0.16
(1,5815)	1:211:A:ASN:HB3	1:212:A:ILE:HD13	7	0.16
(1,5813)	1:108:A:LYS:HG2	1:106:A:SER:HB2	11	0.16
(1,5813)	1:108:A:LYS:HG2	1:106:A:SER:HB3	11	0.16
(1,5813)	1:108:A:LYS:HG3	1:106:A:SER:HB2	11	0.16
(1,5813)	1:108:A:LYS:HG3	1:106:A:SER:HB3	11	0.16
(1,5791)	1:102:A:LEU:HB2	1:105:A:SER:HB2	11	0.16
(1,5791)	1:102:A:LEU:HB2	1:105:A:SER:HB3	11	0.16
(1,5714)	1:3:A:GLU:HB2	1:9:A:VAL:HG11	10	0.16
(1,5714)	1:3:A:GLU:HB2	1:9:A:VAL:HG12	10	0.16
(1,5714)	1:3:A:GLU:HB2	1:9:A:VAL:HG13	10	0.16
(1,5714)	1:3:A:GLU:HB2	1:9:A:VAL:HG21	10	0.16
(1,5714)	1:3:A:GLU:HB2	1:9:A:VAL:HG22	10	0.16
(1,5714)	1:3:A:GLU:HB2	1:9:A:VAL:HG23	10	0.16
(1,5691)	1:22:A:PRO:HG3	1:23:A:ALA:H	5	0.16
(1,5691)	1:22:A:PRO:HG3	1:23:A:ALA:H	11	0.16
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD21	16	0.16
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD22	16	0.16
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	5	0.16
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	20	0.16
(1,5554)	1:128:A:LYS:HB2	1:129:A:PHE:H	15	0.16
(1,5547)	1:100:A:GLU:HG3	1:100:A:GLU:H	17	0.16
(1,5546)	1:8:A:VAL:HB	1:8:A:VAL:H	4	0.16
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	17	0.16
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	17	0.16
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	20	0.16
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	20	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5488)	1:195:A:ALA:H	1:191:A:ASN:HD21	5	0.16
(1,5488)	1:195:A:ALA:H	1:191:A:ASN:HD22	5	0.16
(1,5474)	1:196:A:TYR:H	1:194:A:THR:HB	9	0.16
(1,5474)	1:196:A:TYR:H	1:194:A:THR:HB	10	0.16
(1,5474)	1:196:A:TYR:H	1:194:A:THR:HB	15	0.16
(1,5428)	1:23:A:ALA:H	1:20:A:TRP:HZ3	1	0.16
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE1	17	0.16
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE2	17	0.16
(1,5397)	1:127:A:TYR:H	1:137:A:ILE:HG12	2	0.16
(1,5397)	1:127:A:TYR:H	1:137:A:ILE:HG13	2	0.16
(1,5373)	1:134:A:GLY:H	1:44:A:ARG:HD2	20	0.16
(1,5373)	1:134:A:GLY:H	1:44:A:ARG:HD3	20	0.16
(1,5313)	1:20:A:TRP:HE1	1:71:A:GLU:HG2	14	0.16
(1,5313)	1:20:A:TRP:HE1	1:71:A:GLU:HG3	14	0.16
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG2	15	0.16
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG3	15	0.16
(1,5247)	1:40:A:GLN:HE21	1:55:A:ALA:HA	20	0.16
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB2	16	0.16
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB3	16	0.16
(1,5203)	1:200:A:LEU:H	1:195:A:ALA:HB1	5	0.16
(1,5203)	1:200:A:LEU:H	1:195:A:ALA:HB2	5	0.16
(1,5203)	1:200:A:LEU:H	1:195:A:ALA:HB3	5	0.16
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG21	16	0.16
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG22	16	0.16
(1,5181)	1:59:A:ILE:H	1:59:A:ILE:HG23	16	0.16
(1,5168)	1:5:A:LEU:H	1:3:A:GLU:HB2	12	0.16
(1,5168)	1:5:A:LEU:H	1:3:A:GLU:HB3	12	0.16
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG11	10	0.16
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG12	10	0.16
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG13	10	0.16
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG21	10	0.16
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG22	10	0.16
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG23	10	0.16
(1,5118)	1:7:A:LYS:H	1:5:A:LEU:HG	9	0.16
(1,5118)	1:7:A:LYS:H	1:5:A:LEU:HG	18	0.16
(1,5062)	1:58:A:ASP:H	1:11:A:VAL:HG11	16	0.16
(1,5062)	1:58:A:ASP:H	1:11:A:VAL:HG12	16	0.16
(1,5062)	1:58:A:ASP:H	1:11:A:VAL:HG13	16	0.16
(1,5062)	1:58:A:ASP:H	1:11:A:VAL:HG21	16	0.16
(1,5062)	1:58:A:ASP:H	1:11:A:VAL:HG22	16	0.16
(1,5062)	1:58:A:ASP:H	1:11:A:VAL:HG23	16	0.16
(1,5020)	1:85:A:LEU:H	1:88:A:ARG:HE	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4911)	1:172:A:TRP:HE1	1:166:A:ILE:HA	1	0.16
(1,4855)	1:67:A:LEU:HG	1:67:A:LEU:H	14	0.16
(1,4502)	1:133:A:ARG:HE	1:202:A:GLY:H	15	0.16
(1,4267)	1:198:A:LYS:HB2	1:199:A:TYR:H	13	0.16
(1,4267)	1:198:A:LYS:HB3	1:199:A:TYR:H	13	0.16
(1,4092)	1:175:A:ILE:HG21	1:159:A:HIS:H	15	0.16
(1,4092)	1:175:A:ILE:HG22	1:159:A:HIS:H	15	0.16
(1,4092)	1:175:A:ILE:HG23	1:159:A:HIS:H	15	0.16
(1,3849)	1:109:A:ASP:HB2	1:109:A:ASP:H	1	0.16
(1,3849)	1:109:A:ASP:HB3	1:109:A:ASP:H	1	0.16
(1,3846)	1:111:A:GLU:HG2	1:111:A:GLU:H	10	0.16
(1,3846)	1:111:A:GLU:HG3	1:111:A:GLU:H	10	0.16
(1,3784)	1:101:A:ILE:HG21	1:102:A:LEU:H	10	0.16
(1,3784)	1:101:A:ILE:HG22	1:102:A:LEU:H	10	0.16
(1,3784)	1:101:A:ILE:HG23	1:102:A:LEU:H	10	0.16
(1,3721)	1:18:A:THR:HB	1:19:A:GLU:H	11	0.16
(1,3544)	1:97:A:ASP:HB3	1:99:A:SER:HA	8	0.16
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB2	6	0.16
(1,3516)	1:44:A:ARG:HB2	1:46:A:PHE:HB3	6	0.16
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB2	6	0.16
(1,3516)	1:44:A:ARG:HB3	1:46:A:PHE:HB3	6	0.16
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB2	6	0.16
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB3	6	0.16
(1,3477)	1:64:A:ILE:H	1:65:A:LEU:HB2	1	0.16
(1,3477)	1:64:A:ILE:H	1:65:A:LEU:HB3	1	0.16
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB2	1	0.16
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB3	1	0.16
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB2	1	0.16
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB3	1	0.16
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB2	1	0.16
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB3	1	0.16
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB2	1	0.16
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB3	1	0.16
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB2	1	0.16
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB3	1	0.16
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB2	1	0.16
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB3	1	0.16
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB2	14	0.16
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB3	14	0.16
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB2	14	0.16
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB3	14	0.16
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB2	14	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB3	14	0.16
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB2	14	0.16
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB3	14	0.16
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB2	14	0.16
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB3	14	0.16
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB2	14	0.16
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB3	14	0.16
(1,3330)	1:100:A:GLU:HG3	1:101:A:ILE:HG12	11	0.16
(1,3330)	1:100:A:GLU:HG3	1:101:A:ILE:HG13	11	0.16
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG21	6	0.16
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG22	6	0.16
(1,3320)	1:51:A:PHE:HB3	1:34:A:ILE:HG23	6	0.16
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG12	1	0.16
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG13	1	0.16
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG12	10	0.16
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG13	10	0.16
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD11	10	0.16
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD12	10	0.16
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD13	10	0.16
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD21	10	0.16
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD22	10	0.16
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD23	10	0.16
(1,3236)	1:17:A:ARG:HA	1:17:A:ARG:HD2	20	0.16
(1,3236)	1:17:A:ARG:HA	1:17:A:ARG:HD3	20	0.16
(1,3235)	1:17:A:ARG:HA	1:17:A:ARG:HD2	20	0.16
(1,3235)	1:17:A:ARG:HA	1:17:A:ARG:HD3	20	0.16
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD11	7	0.16
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD12	7	0.16
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD13	7	0.16
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD21	7	0.16
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD22	7	0.16
(1,3224)	1:65:A:LEU:HA	1:85:A:LEU:HD23	7	0.16
(1,3221)	1:170:A:ALA:HA	1:173:A:LYS:HD2	20	0.16
(1,3221)	1:170:A:ALA:HA	1:173:A:LYS:HD3	20	0.16
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	3	0.16
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	3	0.16
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	16	0.16
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	16	0.16
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	19	0.16
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	19	0.16
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG21	16	0.16
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG22	16	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3154)	1:59:A:ILE:H	1:59:A:ILE:HG23	16	0.16
(1,3115)	1:80:A:LYS:H	1:22:A:PRO:HG2	15	0.16
(1,3115)	1:80:A:LYS:H	1:22:A:PRO:HG3	15	0.16
(1,3087)	1:85:A:LEU:H	1:83:A:ILE:HG21	8	0.16
(1,3087)	1:85:A:LEU:H	1:83:A:ILE:HG22	8	0.16
(1,3087)	1:85:A:LEU:H	1:83:A:ILE:HG23	8	0.16
(1,3081)	1:8:A:VAL:H	1:7:A:LYS:HG2	14	0.16
(1,3081)	1:8:A:VAL:H	1:7:A:LYS:HG3	14	0.16
(1,2978)	1:98:A:ILE:HG13	1:98:A:ILE:HA	10	0.16
(1,2977)	1:62:A:VAL:HB	1:62:A:VAL:HA	4	0.16
(1,2973)	1:85:A:LEU:HB2	1:82:A:SER:HA	19	0.16
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB2	5	0.16
(1,2970)	1:71:A:GLU:HB2	1:70:A:SER:HB3	5	0.16
(1,2948)	1:63:A:ASP:HB2	1:64:A:ILE:HA	11	0.16
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD11	3	0.16
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD12	3	0.16
(1,2872)	1:100:A:GLU:HB2	1:101:A:ILE:HD13	3	0.16
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	2	0.16
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	5	0.16
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	8	0.16
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	18	0.16
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG21	10	0.16
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG22	10	0.16
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG23	10	0.16
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG21	17	0.16
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG22	17	0.16
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG23	17	0.16
(1,2848)	1:11:A:VAL:HG23	1:44:A:ARG:H	14	0.16
(1,2842)	1:181:A:ILE:HD11	1:176:A:TYR:HB2	7	0.16
(1,2842)	1:181:A:ILE:HD11	1:176:A:TYR:HB3	7	0.16
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD2	5	0.16
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD3	5	0.16
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD2	15	0.16
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD3	15	0.16
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG11	7	0.16
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG12	7	0.16
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG13	7	0.16
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG21	7	0.16
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG22	7	0.16
(1,2783)	1:61:A:GLU:HG2	1:9:A:VAL:HG23	7	0.16
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG11	5	0.16
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG12	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG13	5	0.16
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG21	5	0.16
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG22	5	0.16
(1,2776)	1:54:A:ILE:HB	1:11:A:VAL:HG23	5	0.16
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG21	11	0.16
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG22	11	0.16
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG23	11	0.16
(1,2745)	1:137:A:ILE:HD13	1:126:A:LEU:HB2	18	0.16
(1,2745)	1:137:A:ILE:HD13	1:126:A:LEU:HB3	18	0.16
(1,2717)	1:130:A:MET:HE1	1:133:A:ARG:HG2	20	0.16
(1,2717)	1:130:A:MET:HE1	1:133:A:ARG:HG3	20	0.16
(1,2685)	1:67:A:LEU:HD13	1:71:A:GLU:HB2	5	0.16
(1,2685)	1:67:A:LEU:HD13	1:71:A:GLU:HB3	5	0.16
(1,2685)	1:67:A:LEU:HD12	1:71:A:GLU:HB2	18	0.16
(1,2685)	1:67:A:LEU:HD12	1:71:A:GLU:HB3	18	0.16
(1,2682)	1:62:A:VAL:HB	1:9:A:VAL:HB	11	0.16
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG2	8	0.16
(1,2680)	1:181:A:ILE:HB	1:182:A:PRO:HG3	8	0.16
(1,2643)	1:187:A:ALA:HB1	1:190:A:TYR:HB2	5	0.16
(1,2643)	1:187:A:ALA:HB1	1:190:A:TYR:HB3	5	0.16
(1,2639)	1:11:A:VAL:HG11	1:20:A:TRP:HB2	2	0.16
(1,2639)	1:11:A:VAL:HG11	1:20:A:TRP:HB3	2	0.16
(1,2575)	1:64:A:ILE:HG23	1:78:A:LEU:HA	1	0.16
(1,2562)	1:72:A:LEU:HG	1:69:A:GLU:HA	12	0.16
(1,2552)	1:101:A:ILE:HG23	1:102:A:LEU:HA	9	0.16
(1,2541)	1:142:A:VAL:HB	1:141:A:PRO:HA	12	0.16
(1,2527)	1:142:A:VAL:HB	1:143:A:LEU:HA	2	0.16
(1,2489)	1:87:A:THR:HG23	1:84:A:PHE:HD1	6	0.16
(1,2489)	1:87:A:THR:HG23	1:84:A:PHE:HD2	6	0.16
(1,2373)	1:26:A:ILE:HD13	1:43:A:VAL:H	14	0.16
(1,2372)	1:96:A:MET:HE3	1:127:A:TYR:H	10	0.16
(1,2334)	1:22:A:PRO:HA	1:46:A:PHE:HE1	13	0.16
(1,2334)	1:22:A:PRO:HA	1:46:A:PHE:HE2	13	0.16
(1,2306)	1:81:A:ALA:HA	1:78:A:LEU:HA	1	0.16
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG21	16	0.16
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG22	16	0.16
(1,2255)	1:105:A:SER:HB3	1:101:A:ILE:HG23	16	0.16
(1,1868)	1:11:A:VAL:HA	1:59:A:ILE:HB	5	0.16
(1,1518)	1:8:A:VAL:HB	1:24:A:LEU:HD11	15	0.16
(1,1518)	1:8:A:VAL:HB	1:24:A:LEU:HD12	15	0.16
(1,1518)	1:8:A:VAL:HB	1:24:A:LEU:HD13	15	0.16
(1,1518)	1:8:A:VAL:HB	1:24:A:LEU:HD21	15	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1518)	1:8:A:VAL:HB	1:24:A:LEU:HD22	15	0.16
(1,1518)	1:8:A:VAL:HB	1:24:A:LEU:HD23	15	0.16
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD11	2	0.16
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD12	2	0.16
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD13	2	0.16
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD11	2	0.16
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD12	2	0.16
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD13	2	0.16
(1,1218)	1:62:A:VAL:HA	1:62:A:VAL:HB	3	0.16
(1,1218)	1:62:A:VAL:HA	1:62:A:VAL:HB	4	0.16
(1,1184)	1:184:A:LEU:HA	1:184:A:LEU:HD11	16	0.16
(1,1184)	1:184:A:LEU:HA	1:184:A:LEU:HD12	16	0.16
(1,1184)	1:184:A:LEU:HA	1:184:A:LEU:HD13	16	0.16
(1,1184)	1:184:A:LEU:HA	1:184:A:LEU:HD21	16	0.16
(1,1184)	1:184:A:LEU:HA	1:184:A:LEU:HD22	16	0.16
(1,1184)	1:184:A:LEU:HA	1:184:A:LEU:HD23	16	0.16
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG11	14	0.16
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG12	14	0.16
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG13	14	0.16
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG21	14	0.16
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG22	14	0.16
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG23	14	0.16
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG11	14	0.16
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG12	14	0.16
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG13	14	0.16
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG21	14	0.16
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG22	14	0.16
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG23	14	0.16
(1,707)	1:17:A:ARG:H	1:18:A:THR:HG21	9	0.16
(1,707)	1:17:A:ARG:H	1:18:A:THR:HG22	9	0.16
(1,707)	1:17:A:ARG:H	1:18:A:THR:HG23	9	0.16
(1,625)	1:143:A:LEU:H	1:142:A:VAL:HB	4	0.16
(1,625)	1:143:A:LEU:H	1:142:A:VAL:HB	19	0.16
(1,353)	1:145:A:TYR:HD1	1:145:A:TYR:HA	4	0.16
(1,353)	1:145:A:TYR:HD2	1:145:A:TYR:HA	4	0.16
(1,353)	1:145:A:TYR:HD1	1:145:A:TYR:HA	19	0.16
(1,353)	1:145:A:TYR:HD2	1:145:A:TYR:HA	19	0.16
(1,183)	1:145:A:TYR:H	1:145:A:TYR:HE1	12	0.16
(1,183)	1:145:A:TYR:H	1:145:A:TYR:HE2	12	0.16
(1,58)	1:96:A:MET:HB2	1:127:A:TYR:HD1	15	0.16
(1,58)	1:96:A:MET:HB2	1:127:A:TYR:HD2	15	0.16
(1,58)	1:96:A:MET:HB3	1:127:A:TYR:HD1	15	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,58)	1:96:A:MET:HB3	1:127:A:TYR:HD2	15	0.16
(2,320)	1:118:A:GLU:CB	1:114:A:LEU:N	5	0.15
(2,320)	1:118:A:GLU:CB	1:114:A:LEU:N	15	0.15
(2,36)	1:4:A:LEU:CB	1:210:A:ALA:N	18	0.15
(1,5861)	1:116:A:PRO:HG2	1:117:A:GLU:H	13	0.15
(1,5853)	1:114:A:LEU:HG	1:114:A:LEU:HA	2	0.15
(1,5845)	1:111:A:GLU:H	1:111:A:GLU:HA	8	0.15
(1,5835)	1:110:A:LYS:HA	1:110:A:LYS:H	4	0.15
(1,5813)	1:108:A:LYS:HG2	1:106:A:SER:HB2	13	0.15
(1,5813)	1:108:A:LYS:HG2	1:106:A:SER:HB3	13	0.15
(1,5813)	1:108:A:LYS:HG3	1:106:A:SER:HB2	13	0.15
(1,5813)	1:108:A:LYS:HG3	1:106:A:SER:HB3	13	0.15
(1,5786)	1:115:A:ASP:HA	1:117:A:GLU:H	7	0.15
(1,5786)	1:115:A:ASP:HA	1:117:A:GLU:H	20	0.15
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD21	1	0.15
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD22	1	0.15
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD21	3	0.15
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD22	3	0.15
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD21	14	0.15
(1,5690)	1:62:A:VAL:HA	1:66:A:ASN:HD22	14	0.15
(1,5689)	1:137:A:ILE:HA	1:138:A:ASN:HD21	20	0.15
(1,5689)	1:137:A:ILE:HA	1:138:A:ASN:HD22	20	0.15
(1,5626)	1:142:A:VAL:HG11	1:145:A:TYR:H	10	0.15
(1,5623)	1:61:A:GLU:HG2	1:1:A:ASN:HD21	13	0.15
(1,5623)	1:61:A:GLU:HG2	1:1:A:ASN:HD22	13	0.15
(1,5623)	1:61:A:GLU:HG3	1:1:A:ASN:HD21	13	0.15
(1,5623)	1:61:A:GLU:HG3	1:1:A:ASN:HD22	13	0.15
(1,5602)	1:34:A:ILE:HG23	1:53:A:SER:H	10	0.15
(1,5556)	1:96:A:MET:HB2	1:95:A:LYS:H	18	0.15
(1,5554)	1:128:A:LYS:HB2	1:129:A:PHE:H	4	0.15
(1,5549)	1:204:A:GLU:HB3	1:201:A:TYR:H	3	0.15
(1,5534)	1:47:A:ILE:HB	1:81:A:ALA:H	10	0.15
(1,5522)	1:9:A:VAL:HG21	1:23:A:ALA:H	8	0.15
(1,5507)	1:88:A:ARG:HE	1:85:A:LEU:HD11	3	0.15
(1,5507)	1:88:A:ARG:HE	1:85:A:LEU:HD12	3	0.15
(1,5507)	1:88:A:ARG:HE	1:85:A:LEU:HD13	3	0.15
(1,5507)	1:88:A:ARG:HE	1:85:A:LEU:HD21	3	0.15
(1,5507)	1:88:A:ARG:HE	1:85:A:LEU:HD22	3	0.15
(1,5507)	1:88:A:ARG:HE	1:85:A:LEU:HD23	3	0.15
(1,5475)	1:197:A:ARG:H	1:193:A:LYS:HE2	7	0.15
(1,5475)	1:197:A:ARG:H	1:193:A:LYS:HE3	7	0.15
(1,5474)	1:196:A:TYR:H	1:194:A:THR:HB	2	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5474)	1:196:A:TYR:H	1:194:A:THR:HB	13	0.15
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	11	0.15
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD2	8	0.15
(1,5466)	1:47:A:ILE:H	1:22:A:PRO:HD3	8	0.15
(1,5359)	1:6:A:GLY:H	1:25:A:VAL:H	6	0.15
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB2	1	0.15
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB3	1	0.15
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB2	1	0.15
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB3	1	0.15
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB2	10	0.15
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB3	10	0.15
(1,5290)	1:73:A:SER:H	1:79:A:GLN:HG2	15	0.15
(1,5290)	1:73:A:SER:H	1:79:A:GLN:HG3	15	0.15
(1,5275)	1:74:A:THR:H	1:71:A:GLU:HB2	14	0.15
(1,5275)	1:74:A:THR:H	1:71:A:GLU:HB3	14	0.15
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD21	4	0.15
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD22	4	0.15
(1,5235)	1:70:A:SER:H	1:69:A:GLU:HB2	1	0.15
(1,5235)	1:70:A:SER:H	1:69:A:GLU:HB3	1	0.15
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB1	3	0.15
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB2	3	0.15
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB3	3	0.15
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD11	10	0.15
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD12	10	0.15
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD13	10	0.15
(1,5118)	1:7:A:LYS:H	1:5:A:LEU:HG	4	0.15
(1,5118)	1:7:A:LYS:H	1:5:A:LEU:HG	15	0.15
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD11	11	0.15
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD12	11	0.15
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD13	11	0.15
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	6	0.15
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	6	0.15
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	18	0.15
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	18	0.15
(1,4970)	1:64:A:ILE:H	1:65:A:LEU:HA	16	0.15
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD11	18	0.15
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD12	18	0.15
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD13	18	0.15
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD21	18	0.15
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD22	18	0.15
(1,4938)	1:148:A:LEU:H	1:148:A:LEU:HD23	18	0.15
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB1	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB2	4	0.15
(1,4928)	1:54:A:ILE:H	1:55:A:ALA:HB3	4	0.15
(1,4911)	1:172:A:TRP:HE1	1:166:A:ILE:HA	7	0.15
(1,4908)	1:20:A:TRP:HE1	1:75:A:LYS:HD2	11	0.15
(1,4908)	1:20:A:TRP:HE1	1:75:A:LYS:HD3	11	0.15
(1,4775)	1:60:A:LYS:HG2	1:59:A:ILE:H	15	0.15
(1,4775)	1:60:A:LYS:HG3	1:59:A:ILE:H	15	0.15
(1,4092)	1:175:A:ILE:HG21	1:159:A:HIS:H	2	0.15
(1,4092)	1:175:A:ILE:HG22	1:159:A:HIS:H	2	0.15
(1,4092)	1:175:A:ILE:HG23	1:159:A:HIS:H	2	0.15
(1,4092)	1:175:A:ILE:HG21	1:159:A:HIS:H	6	0.15
(1,4092)	1:175:A:ILE:HG22	1:159:A:HIS:H	6	0.15
(1,4092)	1:175:A:ILE:HG23	1:159:A:HIS:H	6	0.15
(1,3869)	1:153:A:LEU:HG	1:179:A:LEU:H	11	0.15
(1,3868)	1:102:A:LEU:HB2	1:103:A:GLU:H	2	0.15
(1,3868)	1:102:A:LEU:HB3	1:103:A:GLU:H	2	0.15
(1,3868)	1:102:A:LEU:HB2	1:103:A:GLU:H	5	0.15
(1,3868)	1:102:A:LEU:HB3	1:103:A:GLU:H	5	0.15
(1,3848)	1:223:A:GLU:HG2	1:223:A:GLU:H	10	0.15
(1,3848)	1:223:A:GLU:HG3	1:223:A:GLU:H	10	0.15
(1,3846)	1:111:A:GLU:HG2	1:111:A:GLU:H	6	0.15
(1,3846)	1:111:A:GLU:HG3	1:111:A:GLU:H	6	0.15
(1,3669)	1:112:A:LYS:HB2	1:113:A:GLU:H	16	0.15
(1,3669)	1:112:A:LYS:HB3	1:113:A:GLU:H	16	0.15
(1,3604)	1:149:A:ASN:HB2	1:150:A:LEU:H	8	0.15
(1,3604)	1:149:A:ASN:HB3	1:150:A:LEU:H	8	0.15
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB2	5	0.15
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB3	5	0.15
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB2	10	0.15
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB3	10	0.15
(1,3477)	1:64:A:ILE:H	1:65:A:LEU:HB2	3	0.15
(1,3477)	1:64:A:ILE:H	1:65:A:LEU:HB3	3	0.15
(1,3477)	1:64:A:ILE:H	1:65:A:LEU:HB2	5	0.15
(1,3477)	1:64:A:ILE:H	1:65:A:LEU:HB3	5	0.15
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB2	3	0.15
(1,3444)	1:12:A:VAL:HG11	1:60:A:LYS:HB3	3	0.15
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB2	3	0.15
(1,3444)	1:12:A:VAL:HG12	1:60:A:LYS:HB3	3	0.15
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB2	3	0.15
(1,3444)	1:12:A:VAL:HG13	1:60:A:LYS:HB3	3	0.15
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB2	3	0.15
(1,3444)	1:12:A:VAL:HG21	1:60:A:LYS:HB3	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB2	3	0.15
(1,3444)	1:12:A:VAL:HG22	1:60:A:LYS:HB3	3	0.15
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB2	3	0.15
(1,3444)	1:12:A:VAL:HG23	1:60:A:LYS:HB3	3	0.15
(1,3400)	1:90:A:VAL:HG11	1:86:A:LYS:HB2	14	0.15
(1,3400)	1:90:A:VAL:HG11	1:86:A:LYS:HB3	14	0.15
(1,3400)	1:90:A:VAL:HG12	1:86:A:LYS:HB2	14	0.15
(1,3400)	1:90:A:VAL:HG12	1:86:A:LYS:HB3	14	0.15
(1,3400)	1:90:A:VAL:HG13	1:86:A:LYS:HB2	14	0.15
(1,3400)	1:90:A:VAL:HG13	1:86:A:LYS:HB3	14	0.15
(1,3400)	1:90:A:VAL:HG21	1:86:A:LYS:HB2	14	0.15
(1,3400)	1:90:A:VAL:HG21	1:86:A:LYS:HB3	14	0.15
(1,3400)	1:90:A:VAL:HG22	1:86:A:LYS:HB2	14	0.15
(1,3400)	1:90:A:VAL:HG22	1:86:A:LYS:HB3	14	0.15
(1,3400)	1:90:A:VAL:HG23	1:86:A:LYS:HB2	14	0.15
(1,3400)	1:90:A:VAL:HG23	1:86:A:LYS:HB3	14	0.15
(1,3390)	1:83:A:ILE:HG12	1:86:A:LYS:HE2	13	0.15
(1,3390)	1:83:A:ILE:HG12	1:86:A:LYS:HE3	13	0.15
(1,3390)	1:83:A:ILE:HG13	1:86:A:LYS:HE2	13	0.15
(1,3390)	1:83:A:ILE:HG13	1:86:A:LYS:HE3	13	0.15
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG2	17	0.15
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG3	17	0.15
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG2	17	0.15
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG3	17	0.15
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	5	0.15
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	5	0.15
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	15	0.15
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	15	0.15
(1,3097)	1:82:A:SER:H	1:79:A:GLN:HG2	4	0.15
(1,3097)	1:82:A:SER:H	1:79:A:GLN:HG3	4	0.15
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG21	19	0.15
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG22	19	0.15
(1,3086)	1:35:A:THR:H	1:35:A:THR:HG23	19	0.15
(1,2998)	1:178:A:ASP:HB3	1:153:A:LEU:HA	13	0.15
(1,2975)	1:179:A:LEU:HD21	1:176:A:TYR:HA	4	0.15
(1,2922)	1:64:A:ILE:HD13	1:85:A:LEU:HB2	6	0.15
(1,2922)	1:64:A:ILE:HD13	1:85:A:LEU:HB3	6	0.15
(1,2917)	1:196:A:TYR:HA	1:201:A:TYR:H	2	0.15
(1,2884)	1:61:A:GLU:HG3	1:3:A:GLU:HA	19	0.15
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	9	0.15
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	14	0.15
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	20	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2869)	1:194:A:THR:HB	1:190:A:TYR:HD1	14	0.15
(1,2869)	1:194:A:THR:HB	1:190:A:TYR:HD2	14	0.15
(1,2868)	1:157:A:VAL:HA	1:160:A:GLN:HA	14	0.15
(1,2868)	1:157:A:VAL:HA	1:160:A:GLN:HA	17	0.15
(1,2835)	1:126:A:LEU:HD11	1:130:A:MET:H	7	0.15
(1,2717)	1:130:A:MET:HE3	1:198:A:LYS:HB2	11	0.15
(1,2717)	1:130:A:MET:HE3	1:198:A:LYS:HB3	11	0.15
(1,2685)	1:67:A:LEU:HD11	1:71:A:GLU:HB2	13	0.15
(1,2685)	1:67:A:LEU:HD11	1:71:A:GLU:HB3	13	0.15
(1,2682)	1:62:A:VAL:HB	1:9:A:VAL:HB	13	0.15
(1,2645)	1:54:A:ILE:HG21	1:41:A:CYS:HB2	14	0.15
(1,2645)	1:54:A:ILE:HG21	1:41:A:CYS:HB3	14	0.15
(1,2636)	1:65:A:LEU:HD13	1:66:A:ASN:HB2	3	0.15
(1,2636)	1:65:A:LEU:HD13	1:66:A:ASN:HB3	3	0.15
(1,2636)	1:65:A:LEU:HD11	1:66:A:ASN:HB2	16	0.15
(1,2636)	1:65:A:LEU:HD11	1:66:A:ASN:HB3	16	0.15
(1,2606)	1:64:A:ILE:HD11	1:78:A:LEU:HA	3	0.15
(1,2577)	1:166:A:ILE:HD13	1:160:A:GLN:HA	19	0.15
(1,2552)	1:101:A:ILE:HG22	1:102:A:LEU:HA	1	0.15
(1,2546)	1:222:A:LEU:HG	1:222:A:LEU:HA	20	0.15
(1,2527)	1:142:A:VAL:HB	1:143:A:LEU:HA	3	0.15
(1,2474)	1:101:A:ILE:HD12	1:127:A:TYR:HD1	4	0.15
(1,2474)	1:101:A:ILE:HD12	1:127:A:TYR:HD2	4	0.15
(1,2474)	1:101:A:ILE:HD12	1:127:A:TYR:HD1	19	0.15
(1,2474)	1:101:A:ILE:HD12	1:127:A:TYR:HD2	19	0.15
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD11	9	0.15
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD12	9	0.15
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD13	9	0.15
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD21	9	0.15
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD22	9	0.15
(1,2469)	1:84:A:PHE:HE2	1:24:A:LEU:HD23	9	0.15
(1,2458)	1:171:A:VAL:HG13	1:174:A:GLN:H	15	0.15
(1,2448)	1:130:A:MET:HE2	1:200:A:LEU:H	2	0.15
(1,2443)	1:83:A:ILE:HD11	1:83:A:ILE:H	4	0.15
(1,2443)	1:83:A:ILE:HD12	1:83:A:ILE:H	5	0.15
(1,2443)	1:83:A:ILE:HD11	1:83:A:ILE:H	12	0.15
(1,2428)	1:64:A:ILE:HD13	1:65:A:LEU:H	14	0.15
(1,2422)	1:126:A:LEU:HD11	1:130:A:MET:H	7	0.15
(1,2398)	1:9:A:VAL:HG22	1:25:A:VAL:H	11	0.15
(1,2398)	1:9:A:VAL:HG23	1:10:A:SER:H	14	0.15
(1,2389)	1:42:A:LEU:HG	1:36:A:VAL:H	19	0.15
(1,2372)	1:96:A:MET:HE2	1:127:A:TYR:H	16	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2352)	1:21:A:TYR:HA	1:78:A:LEU:HD11	15	0.15
(1,2352)	1:21:A:TYR:HA	1:78:A:LEU:HD12	15	0.15
(1,2352)	1:21:A:TYR:HA	1:78:A:LEU:HD13	15	0.15
(1,2352)	1:21:A:TYR:HA	1:78:A:LEU:HD21	15	0.15
(1,2352)	1:21:A:TYR:HA	1:78:A:LEU:HD22	15	0.15
(1,2352)	1:21:A:TYR:HA	1:78:A:LEU:HD23	15	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG11	1	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG12	1	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG13	1	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG21	1	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG22	1	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG23	1	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG11	11	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG12	11	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG13	11	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG21	11	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG22	11	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG23	11	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG11	17	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG12	17	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG13	17	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG21	17	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG22	17	0.15
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG23	17	0.15
(1,2327)	1:160:A:GLN:HA	1:157:A:VAL:HA	14	0.15
(1,2327)	1:160:A:GLN:HA	1:157:A:VAL:HA	17	0.15
(1,2212)	1:138:A:ASN:HD21	1:137:A:ILE:HA	20	0.15
(1,2212)	1:138:A:ASN:HD22	1:137:A:ILE:HA	20	0.15
(1,1868)	1:11:A:VAL:HA	1:59:A:ILE:HB	17	0.15
(1,1465)	1:204:A:GLU:HB2	1:157:A:VAL:HG11	6	0.15
(1,1465)	1:204:A:GLU:HB2	1:157:A:VAL:HG12	6	0.15
(1,1465)	1:204:A:GLU:HB2	1:157:A:VAL:HG13	6	0.15
(1,1465)	1:204:A:GLU:HB2	1:157:A:VAL:HG21	6	0.15
(1,1465)	1:204:A:GLU:HB2	1:157:A:VAL:HG22	6	0.15
(1,1465)	1:204:A:GLU:HB2	1:157:A:VAL:HG23	6	0.15
(1,1465)	1:204:A:GLU:HB3	1:157:A:VAL:HG11	6	0.15
(1,1465)	1:204:A:GLU:HB3	1:157:A:VAL:HG12	6	0.15
(1,1465)	1:204:A:GLU:HB3	1:157:A:VAL:HG13	6	0.15
(1,1465)	1:204:A:GLU:HB3	1:157:A:VAL:HG21	6	0.15
(1,1465)	1:204:A:GLU:HB3	1:157:A:VAL:HG22	6	0.15
(1,1465)	1:204:A:GLU:HB3	1:157:A:VAL:HG23	6	0.15
(1,1383)	1:145:A:TYR:HB2	1:146:A:LYS:HD2	20	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1383)	1:145:A:TYR:HB2	1:146:A:LYS:HD3	20	0.15
(1,1383)	1:145:A:TYR:HB3	1:146:A:LYS:HD2	20	0.15
(1,1383)	1:145:A:TYR:HB3	1:146:A:LYS:HD3	20	0.15
(1,1218)	1:62:A:VAL:HA	1:62:A:VAL:HB	10	0.15
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE1	5	0.15
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE2	5	0.15
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE3	5	0.15
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE1	19	0.15
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE2	19	0.15
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE3	19	0.15
(1,732)	1:142:A:VAL:H	1:142:A:VAL:HB	20	0.15
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB2	4	0.15
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB3	4	0.15
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB2	17	0.15
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB3	17	0.15
(1,627)	1:10:A:SER:H	1:62:A:VAL:HB	1	0.15
(1,362)	1:150:A:LEU:HG	1:119:A:ARG:HA	4	0.15
(1,353)	1:145:A:TYR:HD1	1:145:A:TYR:HA	1	0.15
(1,353)	1:145:A:TYR:HD2	1:145:A:TYR:HA	1	0.15
(1,353)	1:145:A:TYR:HD1	1:145:A:TYR:HA	2	0.15
(1,353)	1:145:A:TYR:HD2	1:145:A:TYR:HA	2	0.15
(1,43)	1:50:A:LYS:HE2	1:51:A:PHE:HD1	17	0.15
(1,43)	1:50:A:LYS:HE2	1:51:A:PHE:HD2	17	0.15
(1,43)	1:50:A:LYS:HE3	1:51:A:PHE:HD1	17	0.15
(1,43)	1:50:A:LYS:HE3	1:51:A:PHE:HD2	17	0.15
(1,34)	1:146:A:LYS:HB2	1:145:A:TYR:HD1	16	0.15
(1,34)	1:146:A:LYS:HB2	1:145:A:TYR:HD2	16	0.15
(1,34)	1:146:A:LYS:HB3	1:145:A:TYR:HD1	16	0.15
(1,34)	1:146:A:LYS:HB3	1:145:A:TYR:HD2	16	0.15
(2,165)	1:121:A:ASN:CB	1:95:A:LYS:N	18	0.14
(1,5848)	1:71:A:GLU:HB3	1:72:A:LEU:HG	3	0.14
(1,5848)	1:71:A:GLU:HB3	1:72:A:LEU:HG	12	0.14
(1,5845)	1:111:A:GLU:H	1:111:A:GLU:HA	14	0.14
(1,5602)	1:34:A:ILE:HG23	1:53:A:SER:H	9	0.14
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	7	0.14
(1,5572)	1:94:A:TRP:HD1	1:94:A:TRP:H	9	0.14
(1,5554)	1:128:A:LYS:HB2	1:129:A:PHE:H	11	0.14
(1,5536)	1:183:A:ILE:HG13	1:188:A:ALA:H	19	0.14
(1,5522)	1:64:A:ILE:HD11	1:23:A:ALA:H	17	0.14
(1,5474)	1:196:A:TYR:H	1:194:A:THR:HB	7	0.14
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	5	0.14
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	13	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	17	0.14
(1,5471)	1:79:A:GLN:HE21	1:72:A:LEU:HB2	7	0.14
(1,5471)	1:79:A:GLN:HE21	1:72:A:LEU:HB3	7	0.14
(1,5451)	1:126:A:LEU:H	1:122:A:PHE:HB2	14	0.14
(1,5451)	1:126:A:LEU:H	1:122:A:PHE:HB3	14	0.14
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG12	14	0.14
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG13	14	0.14
(1,5430)	1:24:A:LEU:H	1:46:A:PHE:HE1	4	0.14
(1,5430)	1:24:A:LEU:H	1:46:A:PHE:HE2	4	0.14
(1,5430)	1:24:A:LEU:H	1:46:A:PHE:HE1	8	0.14
(1,5430)	1:24:A:LEU:H	1:46:A:PHE:HE2	8	0.14
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE1	6	0.14
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE2	6	0.14
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG12	5	0.14
(1,5398)	1:127:A:TYR:H	1:101:A:ILE:HG13	5	0.14
(1,5396)	1:124:A:GLN:H	1:126:A:LEU:HB2	18	0.14
(1,5396)	1:124:A:GLN:H	1:126:A:LEU:HB3	18	0.14
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG2	14	0.14
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG3	14	0.14
(1,5359)	1:6:A:GLY:H	1:25:A:VAL:H	17	0.14
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB1	17	0.14
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB2	17	0.14
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB3	17	0.14
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB2	13	0.14
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB3	13	0.14
(1,5332)	1:16:A:GLU:H	1:16:A:GLU:HG2	11	0.14
(1,5332)	1:16:A:GLU:H	1:16:A:GLU:HG3	11	0.14
(1,5318)	1:36:A:VAL:H	1:37:A:LYS:HG2	11	0.14
(1,5318)	1:36:A:VAL:H	1:37:A:LYS:HG3	11	0.14
(1,5283)	1:15:A:THR:H	1:15:A:THR:HA	10	0.14
(1,5283)	1:15:A:THR:H	1:15:A:THR:HA	16	0.14
(1,5273)	1:135:A:THR:H	1:136:A:PRO:HB2	20	0.14
(1,5273)	1:135:A:THR:H	1:136:A:PRO:HB3	20	0.14
(1,5230)	1:82:A:SER:H	1:79:A:GLN:HB2	10	0.14
(1,5230)	1:82:A:SER:H	1:79:A:GLN:HB3	10	0.14
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB1	18	0.14
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB2	18	0.14
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB3	18	0.14
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	9	0.14
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	9	0.14
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	9	0.14
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB2	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5212)	1:66:A:ASN:H	1:65:A:LEU:HB3	11	0.14
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG11	3	0.14
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG12	3	0.14
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG13	3	0.14
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG21	3	0.14
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG22	3	0.14
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG23	3	0.14
(1,5118)	1:7:A:LYS:H	1:5:A:LEU:HG	11	0.14
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD11	5	0.14
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD12	5	0.14
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD13	5	0.14
(1,5053)	1:78:A:LEU:H	1:75:A:LYS:HD2	10	0.14
(1,5053)	1:78:A:LEU:H	1:75:A:LYS:HD3	10	0.14
(1,5050)	1:223:A:GLU:H	1:222:A:LEU:HB2	6	0.14
(1,5050)	1:223:A:GLU:H	1:222:A:LEU:HB3	6	0.14
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	8	0.14
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	8	0.14
(1,4994)	1:222:A:LEU:H	1:222:A:LEU:HG	9	0.14
(1,4993)	1:19:A:GLU:H	1:17:A:ARG:HB2	2	0.14
(1,4993)	1:19:A:GLU:H	1:17:A:ARG:HB3	2	0.14
(1,4911)	1:172:A:TRP:HE1	1:166:A:ILE:HA	12	0.14
(1,4908)	1:20:A:TRP:HE1	1:60:A:LYS:HD2	3	0.14
(1,4908)	1:20:A:TRP:HE1	1:60:A:LYS:HD3	3	0.14
(1,4908)	1:20:A:TRP:HE1	1:60:A:LYS:HD2	9	0.14
(1,4908)	1:20:A:TRP:HE1	1:60:A:LYS:HD3	9	0.14
(1,4848)	1:17:A:ARG:HG2	1:17:A:ARG:H	9	0.14
(1,4848)	1:17:A:ARG:HG3	1:17:A:ARG:H	9	0.14
(1,4745)	1:177:A:MET:HA	1:174:A:GLN:HE21	2	0.14
(1,4745)	1:177:A:MET:HA	1:174:A:GLN:HE22	2	0.14
(1,4502)	1:133:A:ARG:HE	1:202:A:GLY:H	5	0.14
(1,4267)	1:198:A:LYS:HB2	1:199:A:TYR:H	19	0.14
(1,4267)	1:198:A:LYS:HB3	1:199:A:TYR:H	19	0.14
(1,4252)	1:163:A:CYS:HB2	1:213:A:GLN:HE21	20	0.14
(1,4252)	1:163:A:CYS:HB2	1:213:A:GLN:HE22	20	0.14
(1,4252)	1:163:A:CYS:HB3	1:213:A:GLN:HE21	20	0.14
(1,4252)	1:163:A:CYS:HB3	1:213:A:GLN:HE22	20	0.14
(1,3869)	1:153:A:LEU:HG	1:179:A:LEU:H	20	0.14
(1,3774)	1:43:A:VAL:HG11	1:24:A:LEU:H	9	0.14
(1,3774)	1:43:A:VAL:HG12	1:24:A:LEU:H	9	0.14
(1,3774)	1:43:A:VAL:HG13	1:24:A:LEU:H	9	0.14
(1,3774)	1:43:A:VAL:HG21	1:24:A:LEU:H	9	0.14
(1,3774)	1:43:A:VAL:HG22	1:24:A:LEU:H	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3774)	1:43:A:VAL:HG23	1:24:A:LEU:H	9	0.14
(1,3507)	1:67:A:LEU:H	1:65:A:LEU:HB2	7	0.14
(1,3507)	1:67:A:LEU:H	1:65:A:LEU:HB3	7	0.14
(1,3490)	1:16:A:GLU:H	1:14:A:ALA:HA	13	0.14
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB2	8	0.14
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB3	8	0.14
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB2	12	0.14
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB3	12	0.14
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB2	13	0.14
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB3	13	0.14
(1,3477)	1:83:A:ILE:H	1:65:A:LEU:HB2	20	0.14
(1,3477)	1:83:A:ILE:H	1:65:A:LEU:HB3	20	0.14
(1,3390)	1:83:A:ILE:HG12	1:86:A:LYS:HE2	19	0.14
(1,3390)	1:83:A:ILE:HG12	1:86:A:LYS:HE3	19	0.14
(1,3390)	1:83:A:ILE:HG13	1:86:A:LYS:HE2	19	0.14
(1,3390)	1:83:A:ILE:HG13	1:86:A:LYS:HE3	19	0.14
(1,3381)	1:72:A:LEU:HB2	1:79:A:GLN:HG2	15	0.14
(1,3381)	1:72:A:LEU:HB2	1:79:A:GLN:HG3	15	0.14
(1,3381)	1:72:A:LEU:HB3	1:79:A:GLN:HG2	15	0.14
(1,3381)	1:72:A:LEU:HB3	1:79:A:GLN:HG3	15	0.14
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG12	11	0.14
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG13	11	0.14
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG12	19	0.14
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG13	19	0.14
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG12	20	0.14
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG13	20	0.14
(1,3273)	1:151:A:PHE:HA	1:119:A:ARG:HB2	6	0.14
(1,3273)	1:151:A:PHE:HA	1:119:A:ARG:HB3	6	0.14
(1,3273)	1:151:A:PHE:HA	1:119:A:ARG:HB2	7	0.14
(1,3273)	1:151:A:PHE:HA	1:119:A:ARG:HB3	7	0.14
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	1	0.14
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	1	0.14
(1,3161)	1:133:A:ARG:HE	1:135:A:THR:HG21	13	0.14
(1,3161)	1:133:A:ARG:HE	1:135:A:THR:HG22	13	0.14
(1,3161)	1:133:A:ARG:HE	1:135:A:THR:HG23	13	0.14
(1,3123)	1:16:A:GLU:H	1:16:A:GLU:HG2	11	0.14
(1,3123)	1:16:A:GLU:H	1:16:A:GLU:HG3	11	0.14
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	9	0.14
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	9	0.14
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	9	0.14
(1,2978)	1:98:A:ILE:HG13	1:98:A:ILE:HA	7	0.14
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG21	5	0.14
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG22	5	0.14
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG23	5	0.14
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG21	6	0.14
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG22	6	0.14
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG23	6	0.14
(1,2839)	1:11:A:VAL:HG21	1:23:A:ALA:HA	18	0.14
(1,2826)	1:59:A:ILE:HB	1:9:A:VAL:HB	14	0.14
(1,2685)	1:67:A:LEU:HD13	1:71:A:GLU:HB2	11	0.14
(1,2685)	1:67:A:LEU:HD13	1:71:A:GLU:HB3	11	0.14
(1,2636)	1:65:A:LEU:HD13	1:66:A:ASN:HB2	1	0.14
(1,2636)	1:65:A:LEU:HD13	1:66:A:ASN:HB3	1	0.14
(1,2630)	1:47:A:ILE:HD11	1:21:A:TYR:HB2	4	0.14
(1,2630)	1:47:A:ILE:HD11	1:21:A:TYR:HB3	4	0.14
(1,2575)	1:64:A:ILE:HG23	1:78:A:LEU:HA	12	0.14
(1,2561)	1:65:A:LEU:HG	1:65:A:LEU:HA	17	0.14
(1,2552)	1:101:A:ILE:HG22	1:102:A:LEU:HA	20	0.14
(1,2548)	1:150:A:LEU:HD11	1:141:A:PRO:HA	15	0.14
(1,2546)	1:222:A:LEU:HG	1:222:A:LEU:HA	2	0.14
(1,2546)	1:222:A:LEU:HG	1:222:A:LEU:HA	10	0.14
(1,2443)	1:83:A:ILE:HD12	1:83:A:ILE:H	8	0.14
(1,2435)	1:153:A:LEU:HG	1:179:A:LEU:H	20	0.14
(1,2434)	1:85:A:LEU:HG	1:64:A:ILE:H	17	0.14
(1,2400)	1:34:A:ILE:HD11	1:52:A:TYR:H	13	0.14
(1,2389)	1:42:A:LEU:HG	1:36:A:VAL:H	15	0.14
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG11	2	0.14
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG12	2	0.14
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG13	2	0.14
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG21	2	0.14
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG22	2	0.14
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG23	2	0.14
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD11	1	0.14
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD12	1	0.14
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD13	1	0.14
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD11	13	0.14
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD12	13	0.14
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD13	13	0.14
(1,1868)	1:11:A:VAL:HA	1:59:A:ILE:HB	16	0.14
(1,1570)	1:88:A:ARG:HG2	1:87:A:THR:HG21	3	0.14
(1,1570)	1:88:A:ARG:HG2	1:87:A:THR:HG22	3	0.14
(1,1570)	1:88:A:ARG:HG2	1:87:A:THR:HG23	3	0.14
(1,1570)	1:88:A:ARG:HG3	1:87:A:THR:HG21	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1570)	1:88:A:ARG:HG3	1:87:A:THR:HG22	3	0.14
(1,1570)	1:88:A:ARG:HG3	1:87:A:THR:HG23	3	0.14
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD11	16	0.14
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD12	16	0.14
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD13	16	0.14
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD11	16	0.14
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD12	16	0.14
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD13	16	0.14
(1,1197)	1:143:A:LEU:HA	1:195:A:ALA:HB1	2	0.14
(1,1197)	1:143:A:LEU:HA	1:195:A:ALA:HB2	2	0.14
(1,1197)	1:143:A:LEU:HA	1:195:A:ALA:HB3	2	0.14
(1,1197)	1:143:A:LEU:HA	1:195:A:ALA:HB1	6	0.14
(1,1197)	1:143:A:LEU:HA	1:195:A:ALA:HB2	6	0.14
(1,1197)	1:143:A:LEU:HA	1:195:A:ALA:HB3	6	0.14
(1,695)	1:17:A:ARG:H	1:17:A:ARG:HG2	9	0.14
(1,695)	1:17:A:ARG:H	1:17:A:ARG:HG3	9	0.14
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB2	1	0.14
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB3	1	0.14
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB2	12	0.14
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB3	12	0.14
(1,627)	1:10:A:SER:H	1:62:A:VAL:HB	6	0.14
(1,625)	1:143:A:LEU:H	1:142:A:VAL:HB	18	0.14
(1,549)	1:42:A:LEU:H	1:59:A:ILE:HD11	7	0.14
(1,549)	1:42:A:LEU:H	1:59:A:ILE:HD12	7	0.14
(1,549)	1:42:A:LEU:H	1:59:A:ILE:HD13	7	0.14
(1,362)	1:150:A:LEU:HG	1:119:A:ARG:HA	8	0.14
(1,353)	1:145:A:TYR:HD1	1:145:A:TYR:HA	3	0.14
(1,353)	1:145:A:TYR:HD2	1:145:A:TYR:HA	3	0.14
(1,353)	1:145:A:TYR:HD1	1:145:A:TYR:HA	12	0.14
(1,353)	1:145:A:TYR:HD2	1:145:A:TYR:HA	12	0.14
(1,335)	1:120:A:ASP:HB2	1:117:A:GLU:HA	12	0.14
(1,335)	1:120:A:ASP:HB3	1:117:A:GLU:HA	12	0.14
(1,175)	1:190:A:TYR:HA	1:190:A:TYR:HD1	16	0.14
(1,175)	1:190:A:TYR:HA	1:190:A:TYR:HD2	16	0.14
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD21	9	0.14
(1,168)	1:190:A:TYR:HE2	1:191:A:ASN:HD22	9	0.14
(1,160)	1:145:A:TYR:HE2	1:184:A:LEU:HB2	8	0.14
(1,160)	1:145:A:TYR:HE2	1:184:A:LEU:HB3	8	0.14
(1,152)	1:176:A:TYR:HE2	1:181:A:ILE:HB	6	0.14
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD11	11	0.14
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD12	11	0.14
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD13	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD21	11	0.14
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD22	11	0.14
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD23	11	0.14
(1,114)	1:176:A:TYR:HD1	1:192:A:VAL:HB	12	0.14
(1,113)	1:176:A:TYR:HD2	1:182:A:PRO:HA	3	0.14
(1,113)	1:176:A:TYR:HD1	1:182:A:PRO:HA	17	0.14
(1,34)	1:146:A:LYS:HB2	1:145:A:TYR:HD1	8	0.14
(1,34)	1:146:A:LYS:HB2	1:145:A:TYR:HD2	8	0.14
(1,34)	1:146:A:LYS:HB3	1:145:A:TYR:HD1	8	0.14
(1,34)	1:146:A:LYS:HB3	1:145:A:TYR:HD2	8	0.14
(2,210)	1:134:A:GLY:HA2	1:205:A:GLU:N	6	0.13
(2,210)	1:134:A:GLY:HA3	1:205:A:GLU:N	6	0.13
(2,141)	1:93:A:ASN:CB	1:84:A:PHE:N	9	0.13
(1,5848)	1:71:A:GLU:HB3	1:72:A:LEU:HG	14	0.13
(1,5848)	1:71:A:GLU:HB3	1:72:A:LEU:HG	20	0.13
(1,5835)	1:110:A:LYS:HA	1:110:A:LYS:H	1	0.13
(1,5835)	1:110:A:LYS:HA	1:110:A:LYS:H	20	0.13
(1,5807)	1:99:A:SER:H	1:97:A:ASP:HB2	1	0.13
(1,5807)	1:99:A:SER:H	1:97:A:ASP:HB3	1	0.13
(1,5807)	1:2:A:ASP:H	1:2:A:ASP:HB2	13	0.13
(1,5807)	1:2:A:ASP:H	1:2:A:ASP:HB3	13	0.13
(1,5792)	1:76:A:PRO:HD2	1:75:A:LYS:HB2	2	0.13
(1,5792)	1:76:A:PRO:HD2	1:75:A:LYS:HB3	2	0.13
(1,5642)	1:143:A:LEU:HG	1:191:A:ASN:HD21	1	0.13
(1,5642)	1:143:A:LEU:HG	1:191:A:ASN:HD22	1	0.13
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	3	0.13
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	4	0.13
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	10	0.13
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	13	0.13
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	17	0.13
(1,5522)	1:9:A:VAL:HG21	1:23:A:ALA:H	19	0.13
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	14	0.13
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	14	0.13
(1,5474)	1:196:A:TYR:H	1:194:A:THR:HB	1	0.13
(1,5453)	1:172:A:TRP:H	1:174:A:GLN:HB2	2	0.13
(1,5453)	1:172:A:TRP:H	1:174:A:GLN:HB3	2	0.13
(1,5430)	1:24:A:LEU:H	1:52:A:TYR:HE1	2	0.13
(1,5430)	1:24:A:LEU:H	1:52:A:TYR:HE2	2	0.13
(1,5428)	1:23:A:ALA:H	1:46:A:PHE:HD1	9	0.13
(1,5428)	1:23:A:ALA:H	1:46:A:PHE:HD2	9	0.13
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE1	8	0.13
(1,5402)	1:127:A:TYR:H	1:127:A:TYR:HE2	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5382)	1:74:A:THR:H	1:79:A:GLN:HB2	17	0.13
(1,5382)	1:74:A:THR:H	1:79:A:GLN:HB3	17	0.13
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB2	11	0.13
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB3	11	0.13
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB2	19	0.13
(1,5322)	1:149:A:ASN:H	1:141:A:PRO:HB3	19	0.13
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG2	5	0.13
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG3	5	0.13
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG2	6	0.13
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG3	6	0.13
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG2	19	0.13
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG3	19	0.13
(1,5283)	1:15:A:THR:H	1:15:A:THR:HA	1	0.13
(1,5283)	1:15:A:THR:H	1:15:A:THR:HA	6	0.13
(1,5283)	1:15:A:THR:H	1:15:A:THR:HA	8	0.13
(1,5283)	1:15:A:THR:H	1:15:A:THR:HA	9	0.13
(1,5283)	1:15:A:THR:H	1:15:A:THR:HA	20	0.13
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD21	19	0.13
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD22	19	0.13
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB1	1	0.13
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB2	1	0.13
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB3	1	0.13
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB1	11	0.13
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB2	11	0.13
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB3	11	0.13
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD11	4	0.13
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD12	4	0.13
(1,5219)	1:57:A:LYS:H	1:59:A:ILE:HD13	4	0.13
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB2	20	0.13
(1,5203)	1:200:A:LEU:H	1:198:A:LYS:HB3	20	0.13
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD11	11	0.13
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD12	11	0.13
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD13	11	0.13
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD11	16	0.13
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD12	16	0.13
(1,5141)	1:101:A:ILE:H	1:101:A:ILE:HD13	16	0.13
(1,5135)	1:99:A:SER:H	1:101:A:ILE:HD11	11	0.13
(1,5135)	1:99:A:SER:H	1:101:A:ILE:HD12	11	0.13
(1,5135)	1:99:A:SER:H	1:101:A:ILE:HD13	11	0.13
(1,5135)	1:99:A:SER:H	1:101:A:ILE:HD11	17	0.13
(1,5135)	1:99:A:SER:H	1:101:A:ILE:HD12	17	0.13
(1,5135)	1:99:A:SER:H	1:101:A:ILE:HD13	17	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5131)	1:45:A:SER:H	1:43:A:VAL:HG11	8	0.13
(1,5131)	1:45:A:SER:H	1:43:A:VAL:HG12	8	0.13
(1,5131)	1:45:A:SER:H	1:43:A:VAL:HG13	8	0.13
(1,5131)	1:45:A:SER:H	1:43:A:VAL:HG21	8	0.13
(1,5131)	1:45:A:SER:H	1:43:A:VAL:HG22	8	0.13
(1,5131)	1:45:A:SER:H	1:43:A:VAL:HG23	8	0.13
(1,5103)	1:123:A:LEU:H	1:119:A:ARG:HB2	17	0.13
(1,5103)	1:123:A:LEU:H	1:119:A:ARG:HB3	17	0.13
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD11	18	0.13
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD12	18	0.13
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD13	18	0.13
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD21	18	0.13
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD22	18	0.13
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD23	18	0.13
(1,5052)	1:78:A:LEU:H	1:75:A:LYS:HB2	20	0.13
(1,5052)	1:78:A:LEU:H	1:75:A:LYS:HB3	20	0.13
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	9	0.13
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	9	0.13
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	13	0.13
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	13	0.13
(1,5041)	1:20:A:TRP:H	1:19:A:GLU:HG2	11	0.13
(1,5041)	1:20:A:TRP:H	1:19:A:GLU:HG3	11	0.13
(1,5011)	1:62:A:VAL:H	1:62:A:VAL:HG11	9	0.13
(1,5011)	1:62:A:VAL:H	1:62:A:VAL:HG12	9	0.13
(1,5011)	1:62:A:VAL:H	1:62:A:VAL:HG13	9	0.13
(1,5011)	1:62:A:VAL:H	1:62:A:VAL:HG21	9	0.13
(1,5011)	1:62:A:VAL:H	1:62:A:VAL:HG22	9	0.13
(1,5011)	1:62:A:VAL:H	1:62:A:VAL:HG23	9	0.13
(1,5008)	1:64:A:ILE:H	1:65:A:LEU:HD11	15	0.13
(1,5008)	1:64:A:ILE:H	1:65:A:LEU:HD12	15	0.13
(1,5008)	1:64:A:ILE:H	1:65:A:LEU:HD13	15	0.13
(1,5008)	1:64:A:ILE:H	1:65:A:LEU:HD21	15	0.13
(1,5008)	1:64:A:ILE:H	1:65:A:LEU:HD22	15	0.13
(1,5008)	1:64:A:ILE:H	1:65:A:LEU:HD23	15	0.13
(1,4956)	1:178:A:ASP:H	1:175:A:ILE:HG12	20	0.13
(1,4956)	1:178:A:ASP:H	1:175:A:ILE:HG13	20	0.13
(1,4922)	1:11:A:VAL:H	1:20:A:TRP:HD1	16	0.13
(1,4911)	1:172:A:TRP:HE1	1:166:A:ILE:HA	4	0.13
(1,4911)	1:172:A:TRP:HE1	1:166:A:ILE:HA	6	0.13
(1,4911)	1:172:A:TRP:HE1	1:166:A:ILE:HA	11	0.13
(1,4289)	1:150:A:LEU:HD11	1:199:A:TYR:H	8	0.13
(1,4289)	1:150:A:LEU:HD12	1:199:A:TYR:H	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4289)	1:150:A:LEU:HD13	1:199:A:TYR:H	8	0.13
(1,4289)	1:150:A:LEU:HD21	1:199:A:TYR:H	8	0.13
(1,4289)	1:150:A:LEU:HD22	1:199:A:TYR:H	8	0.13
(1,4289)	1:150:A:LEU:HD23	1:199:A:TYR:H	8	0.13
(1,4267)	1:198:A:LYS:HB2	1:199:A:TYR:H	3	0.13
(1,4267)	1:198:A:LYS:HB3	1:199:A:TYR:H	3	0.13
(1,4153)	1:38:A:LYS:HG2	1:39:A:ASP:H	13	0.13
(1,4153)	1:38:A:LYS:HG3	1:39:A:ASP:H	13	0.13
(1,4092)	1:175:A:ILE:HG21	1:159:A:HIS:H	3	0.13
(1,4092)	1:175:A:ILE:HG22	1:159:A:HIS:H	3	0.13
(1,4092)	1:175:A:ILE:HG23	1:159:A:HIS:H	3	0.13
(1,3982)	1:50:A:LYS:HD2	1:50:A:LYS:H	11	0.13
(1,3982)	1:50:A:LYS:HD3	1:50:A:LYS:H	11	0.13
(1,3927)	1:46:A:PHE:HE1	1:80:A:LYS:H	6	0.13
(1,3927)	1:46:A:PHE:HE2	1:80:A:LYS:H	6	0.13
(1,3869)	1:153:A:LEU:HG	1:179:A:LEU:H	13	0.13
(1,3849)	1:109:A:ASP:HB2	1:109:A:ASP:H	19	0.13
(1,3849)	1:109:A:ASP:HB3	1:109:A:ASP:H	19	0.13
(1,3848)	1:223:A:GLU:HG2	1:223:A:GLU:H	1	0.13
(1,3848)	1:223:A:GLU:HG3	1:223:A:GLU:H	1	0.13
(1,3490)	1:16:A:GLU:H	1:14:A:ALA:HA	14	0.13
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB2	16	0.13
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB3	16	0.13
(1,3434)	1:181:A:ILE:HG12	1:146:A:LYS:HE2	8	0.13
(1,3434)	1:181:A:ILE:HG12	1:146:A:LYS:HE3	8	0.13
(1,3434)	1:181:A:ILE:HG12	1:146:A:LYS:HE2	9	0.13
(1,3434)	1:181:A:ILE:HG12	1:146:A:LYS:HE3	9	0.13
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE2	1	0.13
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE3	1	0.13
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE2	1	0.13
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE3	1	0.13
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE2	1	0.13
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE3	1	0.13
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE2	11	0.13
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE3	11	0.13
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE2	11	0.13
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE3	11	0.13
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE2	11	0.13
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE3	11	0.13
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG12	12	0.13
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG13	12	0.13
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	4	0.13
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG2	12	0.13
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG3	12	0.13
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG2	20	0.13
(1,3112)	1:80:A:LYS:H	1:79:A:GLN:HG3	20	0.13
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD11	4	0.13
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD12	4	0.13
(1,3109)	1:57:A:LYS:H	1:59:A:ILE:HD13	4	0.13
(1,3081)	1:8:A:VAL:H	1:7:A:LYS:HG2	3	0.13
(1,3081)	1:8:A:VAL:H	1:7:A:LYS:HG3	3	0.13
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG11	18	0.13
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG12	18	0.13
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG13	18	0.13
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG21	18	0.13
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG22	18	0.13
(1,3070)	1:10:A:SER:H	1:9:A:VAL:HG23	18	0.13
(1,2978)	1:98:A:ILE:HG13	1:98:A:ILE:HA	17	0.13
(1,2973)	1:85:A:LEU:HB2	1:82:A:SER:HA	8	0.13
(1,2871)	1:175:A:ILE:HG12	1:175:A:ILE:HA	19	0.13
(1,2868)	1:157:A:VAL:HA	1:160:A:GLN:HA	10	0.13
(1,2866)	1:210:A:ALA:HA	1:212:A:ILE:HG12	20	0.13
(1,2866)	1:210:A:ALA:HA	1:212:A:ILE:HG13	20	0.13
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG21	11	0.13
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG22	11	0.13
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG23	11	0.13
(1,2842)	1:181:A:ILE:HD11	1:176:A:TYR:HB2	20	0.13
(1,2842)	1:181:A:ILE:HD11	1:176:A:TYR:HB3	20	0.13
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD2	20	0.13
(1,2828)	1:137:A:ILE:HB	1:141:A:PRO:HD3	20	0.13
(1,2826)	1:59:A:ILE:HB	1:9:A:VAL:HB	9	0.13
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG21	17	0.13
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG22	17	0.13
(1,2766)	1:55:A:ALA:HB2	1:54:A:ILE:HG23	17	0.13
(1,2666)	1:72:A:LEU:HB2	1:79:A:GLN:HG2	17	0.13
(1,2666)	1:72:A:LEU:HB2	1:79:A:GLN:HG3	17	0.13
(1,2666)	1:72:A:LEU:HB3	1:79:A:GLN:HG2	17	0.13
(1,2666)	1:72:A:LEU:HB3	1:79:A:GLN:HG3	17	0.13
(1,2645)	1:54:A:ILE:HG21	1:41:A:CYS:HB2	11	0.13
(1,2645)	1:54:A:ILE:HG21	1:41:A:CYS:HB3	11	0.13
(1,2639)	1:11:A:VAL:HG22	1:10:A:SER:HB2	5	0.13
(1,2639)	1:11:A:VAL:HG22	1:10:A:SER:HB3	5	0.13
(1,2639)	1:11:A:VAL:HG12	1:20:A:TRP:HB2	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2639)	1:11:A:VAL:HG12	1:20:A:TRP:HB3	14	0.13
(1,2636)	1:65:A:LEU:HD13	1:66:A:ASN:HB2	14	0.13
(1,2636)	1:65:A:LEU:HD13	1:66:A:ASN:HB3	14	0.13
(1,2590)	1:85:A:LEU:HA	1:88:A:ARG:HB2	3	0.13
(1,2590)	1:85:A:LEU:HA	1:88:A:ARG:HB3	3	0.13
(1,2562)	1:72:A:LEU:HG	1:69:A:GLU:HA	13	0.13
(1,2561)	1:65:A:LEU:HG	1:65:A:LEU:HA	2	0.13
(1,2529)	1:5:A:LEU:HD12	1:2:A:ASP:HA	1	0.13
(1,2498)	1:46:A:PHE:HD1	1:24:A:LEU:HD11	7	0.13
(1,2498)	1:46:A:PHE:HD1	1:24:A:LEU:HD12	7	0.13
(1,2498)	1:46:A:PHE:HD1	1:24:A:LEU:HD13	7	0.13
(1,2498)	1:46:A:PHE:HD1	1:24:A:LEU:HD21	7	0.13
(1,2498)	1:46:A:PHE:HD1	1:24:A:LEU:HD22	7	0.13
(1,2498)	1:46:A:PHE:HD1	1:24:A:LEU:HD23	7	0.13
(1,2497)	1:46:A:PHE:HD1	1:24:A:LEU:HD11	7	0.13
(1,2497)	1:46:A:PHE:HD1	1:24:A:LEU:HD12	7	0.13
(1,2497)	1:46:A:PHE:HD1	1:24:A:LEU:HD13	7	0.13
(1,2497)	1:46:A:PHE:HD1	1:24:A:LEU:HD21	7	0.13
(1,2497)	1:46:A:PHE:HD1	1:24:A:LEU:HD22	7	0.13
(1,2497)	1:46:A:PHE:HD1	1:24:A:LEU:HD23	7	0.13
(1,2466)	1:60:A:LYS:HD3	1:20:A:TRP:HD1	12	0.13
(1,2411)	1:88:A:ARG:HD2	1:88:A:ARG:H	6	0.13
(1,2385)	1:34:A:ILE:HB	1:52:A:TYR:H	4	0.13
(1,2385)	1:34:A:ILE:HB	1:52:A:TYR:H	5	0.13
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD11	2	0.13
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD12	2	0.13
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD13	2	0.13
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD21	2	0.13
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD22	2	0.13
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD23	2	0.13
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG11	3	0.13
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG12	3	0.13
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG13	3	0.13
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG21	3	0.13
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG22	3	0.13
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG23	3	0.13
(1,2327)	1:160:A:GLN:HA	1:157:A:VAL:HA	10	0.13
(1,2277)	1:131:A:GLU:HA	1:134:A:GLY:H	17	0.13
(1,2050)	1:201:A:TYR:H	1:137:A:ILE:HD11	1	0.13
(1,2050)	1:201:A:TYR:H	1:137:A:ILE:HD12	1	0.13
(1,2050)	1:201:A:TYR:H	1:137:A:ILE:HD13	1	0.13
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD11	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD12	10	0.13
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD13	10	0.13
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD11	12	0.13
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD12	12	0.13
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD13	12	0.13
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD11	18	0.13
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD12	18	0.13
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD13	18	0.13
(1,1930)	1:42:A:LEU:H	1:26:A:ILE:HD11	19	0.13
(1,1930)	1:42:A:LEU:H	1:26:A:ILE:HD12	19	0.13
(1,1930)	1:42:A:LEU:H	1:26:A:ILE:HD13	19	0.13
(1,1868)	1:11:A:VAL:HA	1:59:A:ILE:HB	10	0.13
(1,1868)	1:11:A:VAL:HA	1:59:A:ILE:HB	13	0.13
(1,1868)	1:11:A:VAL:HA	1:59:A:ILE:HB	15	0.13
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD11	17	0.13
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD12	17	0.13
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD13	17	0.13
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD21	17	0.13
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD22	17	0.13
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD23	17	0.13
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD11	17	0.13
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD12	17	0.13
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD13	17	0.13
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD21	17	0.13
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD22	17	0.13
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD23	17	0.13
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD11	1	0.13
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD12	1	0.13
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD13	1	0.13
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD11	1	0.13
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD12	1	0.13
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD13	1	0.13
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD11	7	0.13
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD12	7	0.13
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD13	7	0.13
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD11	7	0.13
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD12	7	0.13
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD13	7	0.13
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD11	11	0.13
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD12	11	0.13
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD13	11	0.13
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD11	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD12	11	0.13
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD13	11	0.13
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG11	19	0.13
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG12	19	0.13
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG13	19	0.13
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG21	19	0.13
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG22	19	0.13
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG23	19	0.13
(1,1218)	1:62:A:VAL:HA	1:62:A:VAL:HB	17	0.13
(1,1197)	1:143:A:LEU:HA	1:195:A:ALA:HB1	13	0.13
(1,1197)	1:143:A:LEU:HA	1:195:A:ALA:HB2	13	0.13
(1,1197)	1:143:A:LEU:HA	1:195:A:ALA:HB3	13	0.13
(1,1171)	1:143:A:LEU:HA	1:143:A:LEU:HG	5	0.13
(1,1092)	1:151:A:PHE:HE1	1:123:A:LEU:HD11	6	0.13
(1,1092)	1:151:A:PHE:HE1	1:123:A:LEU:HD12	6	0.13
(1,1092)	1:151:A:PHE:HE1	1:123:A:LEU:HD13	6	0.13
(1,1092)	1:151:A:PHE:HE1	1:123:A:LEU:HD21	6	0.13
(1,1092)	1:151:A:PHE:HE1	1:123:A:LEU:HD22	6	0.13
(1,1092)	1:151:A:PHE:HE1	1:123:A:LEU:HD23	6	0.13
(1,1092)	1:151:A:PHE:HE2	1:123:A:LEU:HD11	6	0.13
(1,1092)	1:151:A:PHE:HE2	1:123:A:LEU:HD12	6	0.13
(1,1092)	1:151:A:PHE:HE2	1:123:A:LEU:HD13	6	0.13
(1,1092)	1:151:A:PHE:HE2	1:123:A:LEU:HD21	6	0.13
(1,1092)	1:151:A:PHE:HE2	1:123:A:LEU:HD22	6	0.13
(1,1092)	1:151:A:PHE:HE2	1:123:A:LEU:HD23	6	0.13
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG11	11	0.13
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG12	11	0.13
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG13	11	0.13
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG21	11	0.13
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG22	11	0.13
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG23	11	0.13
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG11	11	0.13
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG12	11	0.13
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG13	11	0.13
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG21	11	0.13
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG22	11	0.13
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG23	11	0.13
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD11	15	0.13
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD12	15	0.13
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD13	15	0.13
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD21	15	0.13
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD22	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD23	15	0.13
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD11	15	0.13
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD12	15	0.13
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD13	15	0.13
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD21	15	0.13
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD22	15	0.13
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD23	15	0.13
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG11	17	0.13
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG12	17	0.13
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG13	17	0.13
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG21	17	0.13
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG22	17	0.13
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG23	17	0.13
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG11	20	0.13
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG12	20	0.13
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG13	20	0.13
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG21	20	0.13
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG22	20	0.13
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG23	20	0.13
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG11	17	0.13
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG12	17	0.13
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG13	17	0.13
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG21	17	0.13
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG22	17	0.13
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG23	17	0.13
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG11	20	0.13
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG12	20	0.13
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG13	20	0.13
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG21	20	0.13
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG22	20	0.13
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG23	20	0.13
(1,965)	1:20:A:TRP:HD1	1:10:A:SER:HB2	11	0.13
(1,965)	1:20:A:TRP:HD1	1:10:A:SER:HB3	11	0.13
(1,857)	1:185:A:ASN:H	1:184:A:LEU:HD11	2	0.13
(1,857)	1:185:A:ASN:H	1:184:A:LEU:HD12	2	0.13
(1,857)	1:185:A:ASN:H	1:184:A:LEU:HD13	2	0.13
(1,857)	1:185:A:ASN:H	1:184:A:LEU:HD21	2	0.13
(1,857)	1:185:A:ASN:H	1:184:A:LEU:HD22	2	0.13
(1,857)	1:185:A:ASN:H	1:184:A:LEU:HD23	2	0.13
(1,855)	1:185:A:ASN:H	1:184:A:LEU:HD11	2	0.13
(1,855)	1:185:A:ASN:H	1:184:A:LEU:HD12	2	0.13
(1,855)	1:185:A:ASN:H	1:184:A:LEU:HD13	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,855)	1:185:A:ASN:H	1:184:A:LEU:HD21	2	0.13
(1,855)	1:185:A:ASN:H	1:184:A:LEU:HD22	2	0.13
(1,855)	1:185:A:ASN:H	1:184:A:LEU:HD23	2	0.13
(1,725)	1:210:A:ALA:H	1:212:A:ILE:HB	11	0.13
(1,687)	1:2:A:ASP:H	1:61:A:GLU:HB2	14	0.13
(1,687)	1:2:A:ASP:H	1:61:A:GLU:HB3	14	0.13
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB2	18	0.13
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB3	18	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG11	3	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG12	3	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG13	3	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG21	3	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG22	3	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG23	3	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG11	4	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG12	4	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG13	4	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG21	4	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG22	4	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG23	4	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG11	20	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG12	20	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG13	20	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG21	20	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG22	20	0.13
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG23	20	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG11	3	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG12	3	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG13	3	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG21	3	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG22	3	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG23	3	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG11	4	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG12	4	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG13	4	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG21	4	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG22	4	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG23	4	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG11	20	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG12	20	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG13	20	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG21	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG22	20	0.13
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG23	20	0.13
(1,401)	1:102:A:LEU:H	1:103:A:GLU:HA	10	0.13
(1,353)	1:145:A:TYR:HD1	1:145:A:TYR:HA	7	0.13
(1,353)	1:145:A:TYR:HD2	1:145:A:TYR:HA	7	0.13
(1,175)	1:190:A:TYR:HA	1:190:A:TYR:HD1	1	0.13
(1,175)	1:190:A:TYR:HA	1:190:A:TYR:HD2	1	0.13
(2,291)	1:30:A:CYS:CB	1:200:A:LEU:N	20	0.12
(2,156)	1:121:A:ASN:CB	1:84:A:PHE:N	18	0.12
(1,5871)	1:110:A:LYS:HE2	1:110:A:LYS:H	13	0.12
(1,5871)	1:110:A:LYS:HE3	1:110:A:LYS:H	13	0.12
(1,5851)	1:113:A:GLU:H	1:113:A:GLU:HA	2	0.12
(1,5851)	1:113:A:GLU:H	1:113:A:GLU:HA	9	0.12
(1,5848)	1:71:A:GLU:HB3	1:72:A:LEU:HG	9	0.12
(1,5806)	1:223:A:GLU:HB2	1:222:A:LEU:HB2	7	0.12
(1,5806)	1:223:A:GLU:HB2	1:222:A:LEU:HB3	7	0.12
(1,5689)	1:137:A:ILE:HA	1:138:A:ASN:HD21	15	0.12
(1,5689)	1:137:A:ILE:HA	1:138:A:ASN:HD22	15	0.12
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	16	0.12
(1,5528)	1:142:A:VAL:HB	1:143:A:LEU:H	8	0.12
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	4	0.12
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	4	0.12
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	10	0.12
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	10	0.12
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	19	0.12
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	19	0.12
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG12	18	0.12
(1,5489)	1:63:A:ASP:H	1:64:A:ILE:HG13	18	0.12
(1,5485)	1:62:A:VAL:H	1:8:A:VAL:HG11	7	0.12
(1,5485)	1:62:A:VAL:H	1:8:A:VAL:HG12	7	0.12
(1,5485)	1:62:A:VAL:H	1:8:A:VAL:HG13	7	0.12
(1,5485)	1:62:A:VAL:H	1:8:A:VAL:HG21	7	0.12
(1,5485)	1:62:A:VAL:H	1:8:A:VAL:HG22	7	0.12
(1,5485)	1:62:A:VAL:H	1:8:A:VAL:HG23	7	0.12
(1,5474)	1:196:A:TYR:H	1:194:A:THR:HB	5	0.12
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	4	0.12
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	19	0.12
(1,5455)	1:193:A:LYS:H	1:143:A:LEU:HD11	5	0.12
(1,5455)	1:193:A:LYS:H	1:143:A:LEU:HD12	5	0.12
(1,5455)	1:193:A:LYS:H	1:143:A:LEU:HD13	5	0.12
(1,5455)	1:193:A:LYS:H	1:143:A:LEU:HD21	5	0.12
(1,5455)	1:193:A:LYS:H	1:143:A:LEU:HD22	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5455)	1:193:A:LYS:H	1:143:A:LEU:HD23	5	0.12
(1,5453)	1:172:A:TRP:H	1:174:A:GLN:HB2	8	0.12
(1,5453)	1:172:A:TRP:H	1:174:A:GLN:HB3	8	0.12
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG12	3	0.12
(1,5450)	1:124:A:GLN:H	1:98:A:ILE:HG13	3	0.12
(1,5428)	1:23:A:ALA:H	1:20:A:TRP:HZ3	20	0.12
(1,5413)	1:170:A:ALA:H	1:168:A:SER:H	8	0.12
(1,5397)	1:127:A:TYR:H	1:137:A:ILE:HG12	3	0.12
(1,5397)	1:127:A:TYR:H	1:137:A:ILE:HG13	3	0.12
(1,5396)	1:124:A:GLN:H	1:98:A:ILE:HG12	3	0.12
(1,5396)	1:124:A:GLN:H	1:98:A:ILE:HG13	3	0.12
(1,5394)	1:59:A:ILE:H	1:56:A:ARG:H	18	0.12
(1,5361)	1:199:A:TYR:H	1:150:A:LEU:HB2	18	0.12
(1,5361)	1:199:A:TYR:H	1:150:A:LEU:HB3	18	0.12
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB1	7	0.12
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB2	7	0.12
(1,5356)	1:48:A:ASP:H	1:23:A:ALA:HB3	7	0.12
(1,5314)	1:20:A:TRP:HE1	1:75:A:LYS:HG2	13	0.12
(1,5314)	1:20:A:TRP:HE1	1:75:A:LYS:HG3	13	0.12
(1,5312)	1:20:A:TRP:HE1	1:21:A:TYR:H	17	0.12
(1,5292)	1:18:A:THR:H	1:19:A:GLU:HG2	9	0.12
(1,5292)	1:18:A:THR:H	1:19:A:GLU:HG3	9	0.12
(1,5283)	1:15:A:THR:H	1:15:A:THR:HA	2	0.12
(1,5283)	1:15:A:THR:H	1:15:A:THR:HA	12	0.12
(1,5273)	1:135:A:THR:H	1:136:A:PRO:HB2	11	0.12
(1,5273)	1:135:A:THR:H	1:136:A:PRO:HB3	11	0.12
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD21	14	0.12
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD22	14	0.12
(1,5235)	1:70:A:SER:H	1:69:A:GLU:HB2	4	0.12
(1,5235)	1:70:A:SER:H	1:69:A:GLU:HB3	4	0.12
(1,5226)	1:82:A:SER:H	1:79:A:GLN:HA	17	0.12
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB1	8	0.12
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB2	8	0.12
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB3	8	0.12
(1,5220)	1:185:A:ASN:H	1:183:A:ILE:HG21	14	0.12
(1,5220)	1:185:A:ASN:H	1:183:A:ILE:HG22	14	0.12
(1,5220)	1:185:A:ASN:H	1:183:A:ILE:HG23	14	0.12
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB1	15	0.12
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB2	15	0.12
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB3	15	0.12
(1,5218)	1:57:A:LYS:H	1:54:A:ILE:HG21	16	0.12
(1,5218)	1:57:A:LYS:H	1:54:A:ILE:HG22	16	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5218)	1:57:A:LYS:H	1:54:A:ILE:HG23	16	0.12
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB2	19	0.12
(1,5211)	1:51:A:PHE:H	1:50:A:LYS:HB3	19	0.12
(1,5203)	1:200:A:LEU:H	1:195:A:ALA:HB1	8	0.12
(1,5203)	1:200:A:LEU:H	1:195:A:ALA:HB2	8	0.12
(1,5203)	1:200:A:LEU:H	1:195:A:ALA:HB3	8	0.12
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG11	12	0.12
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG12	12	0.12
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG13	12	0.12
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG21	12	0.12
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG22	12	0.12
(1,5125)	1:196:A:TYR:H	1:192:A:VAL:HG23	12	0.12
(1,5118)	1:7:A:LYS:H	1:5:A:LEU:HG	7	0.12
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD11	14	0.12
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD12	14	0.12
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD13	14	0.12
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD21	14	0.12
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD22	14	0.12
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD23	14	0.12
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD11	19	0.12
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD12	19	0.12
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD13	19	0.12
(1,5014)	1:67:A:LEU:H	1:67:A:LEU:HD11	5	0.12
(1,5014)	1:67:A:LEU:H	1:67:A:LEU:HD12	5	0.12
(1,5014)	1:67:A:LEU:H	1:67:A:LEU:HD13	5	0.12
(1,5014)	1:67:A:LEU:H	1:67:A:LEU:HD21	5	0.12
(1,5014)	1:67:A:LEU:H	1:67:A:LEU:HD22	5	0.12
(1,5014)	1:67:A:LEU:H	1:67:A:LEU:HD23	5	0.12
(1,4970)	1:64:A:ILE:H	1:65:A:LEU:HA	5	0.12
(1,4922)	1:11:A:VAL:H	1:20:A:TRP:HD1	4	0.12
(1,4911)	1:172:A:TRP:HE1	1:166:A:ILE:HA	9	0.12
(1,4911)	1:172:A:TRP:HE1	1:166:A:ILE:HA	14	0.12
(1,4911)	1:172:A:TRP:HE1	1:166:A:ILE:HA	16	0.12
(1,4911)	1:172:A:TRP:HE1	1:166:A:ILE:HA	20	0.12
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB2	4	0.12
(1,4907)	1:20:A:TRP:HE1	1:75:A:LYS:HB3	4	0.12
(1,4881)	1:213:A:GLN:HG2	1:211:A:ASN:HD21	6	0.12
(1,4881)	1:213:A:GLN:HG2	1:211:A:ASN:HD22	6	0.12
(1,4881)	1:213:A:GLN:HG3	1:211:A:ASN:HD21	6	0.12
(1,4881)	1:213:A:GLN:HG3	1:211:A:ASN:HD22	6	0.12
(1,4808)	1:92:A:ASP:H	1:93:A:ASN:HD21	10	0.12
(1,4808)	1:92:A:ASP:H	1:93:A:ASN:HD22	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4528)	1:205:A:GLU:HB2	1:29:A:SER:H	1	0.12
(1,4528)	1:205:A:GLU:HB3	1:29:A:SER:H	1	0.12
(1,4284)	1:213:A:GLN:HG2	1:211:A:ASN:HD21	6	0.12
(1,4284)	1:213:A:GLN:HG2	1:211:A:ASN:HD22	6	0.12
(1,4284)	1:213:A:GLN:HG3	1:211:A:ASN:HD21	6	0.12
(1,4284)	1:213:A:GLN:HG3	1:211:A:ASN:HD22	6	0.12
(1,4092)	1:175:A:ILE:HG21	1:159:A:HIS:H	8	0.12
(1,4092)	1:175:A:ILE:HG22	1:159:A:HIS:H	8	0.12
(1,4092)	1:175:A:ILE:HG23	1:159:A:HIS:H	8	0.12
(1,4092)	1:175:A:ILE:HG21	1:159:A:HIS:H	13	0.12
(1,4092)	1:175:A:ILE:HG22	1:159:A:HIS:H	13	0.12
(1,4092)	1:175:A:ILE:HG23	1:159:A:HIS:H	13	0.12
(1,4092)	1:175:A:ILE:HG21	1:159:A:HIS:H	17	0.12
(1,4092)	1:175:A:ILE:HG22	1:159:A:HIS:H	17	0.12
(1,4092)	1:175:A:ILE:HG23	1:159:A:HIS:H	17	0.12
(1,3982)	1:50:A:LYS:HD2	1:50:A:LYS:H	1	0.12
(1,3982)	1:50:A:LYS:HD3	1:50:A:LYS:H	1	0.12
(1,3871)	1:198:A:LYS:HB2	1:201:A:TYR:H	1	0.12
(1,3871)	1:198:A:LYS:HB3	1:201:A:TYR:H	1	0.12
(1,3869)	1:153:A:LEU:HG	1:179:A:LEU:H	2	0.12
(1,3869)	1:153:A:LEU:HG	1:179:A:LEU:H	9	0.12
(1,3669)	1:112:A:LYS:HB2	1:113:A:GLU:H	20	0.12
(1,3669)	1:112:A:LYS:HB3	1:113:A:GLU:H	20	0.12
(1,3604)	1:149:A:ASN:HB2	1:150:A:LEU:H	11	0.12
(1,3604)	1:149:A:ASN:HB3	1:150:A:LEU:H	11	0.12
(1,3604)	1:149:A:ASN:HB2	1:150:A:LEU:H	18	0.12
(1,3604)	1:149:A:ASN:HB3	1:150:A:LEU:H	18	0.12
(1,3490)	1:16:A:GLU:H	1:14:A:ALA:HA	19	0.12
(1,3486)	1:2:A:ASP:H	1:1:A:ASN:HB2	18	0.12
(1,3486)	1:2:A:ASP:H	1:1:A:ASN:HB3	18	0.12
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB2	4	0.12
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB3	4	0.12
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB2	14	0.12
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB3	14	0.12
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG2	1	0.12
(1,3442)	1:9:A:VAL:HG11	1:61:A:GLU:HG3	1	0.12
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG2	1	0.12
(1,3442)	1:9:A:VAL:HG12	1:61:A:GLU:HG3	1	0.12
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG2	1	0.12
(1,3442)	1:9:A:VAL:HG13	1:61:A:GLU:HG3	1	0.12
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG2	1	0.12
(1,3442)	1:9:A:VAL:HG21	1:61:A:GLU:HG3	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG2	1	0.12
(1,3442)	1:9:A:VAL:HG22	1:61:A:GLU:HG3	1	0.12
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG2	1	0.12
(1,3442)	1:9:A:VAL:HG23	1:61:A:GLU:HG3	1	0.12
(1,3402)	1:35:A:THR:HG23	1:36:A:VAL:HB	3	0.12
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE2	12	0.12
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE3	12	0.12
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE2	12	0.12
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE3	12	0.12
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE2	12	0.12
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE3	12	0.12
(1,3390)	1:83:A:ILE:HG12	1:86:A:LYS:HE2	15	0.12
(1,3390)	1:83:A:ILE:HG12	1:86:A:LYS:HE3	15	0.12
(1,3390)	1:83:A:ILE:HG13	1:86:A:LYS:HE2	15	0.12
(1,3390)	1:83:A:ILE:HG13	1:86:A:LYS:HE3	15	0.12
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG2	14	0.12
(1,3381)	1:80:A:LYS:HG2	1:79:A:GLN:HG3	14	0.12
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG2	14	0.12
(1,3381)	1:80:A:LYS:HG3	1:79:A:GLN:HG3	14	0.12
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG12	8	0.12
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG13	8	0.12
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG2	6	0.12
(1,3192)	1:68:A:PRO:HA	1:69:A:GLU:HG3	6	0.12
(1,3177)	1:122:A:PHE:HD1	1:203:A:PHE:HB2	18	0.12
(1,3177)	1:122:A:PHE:HD1	1:203:A:PHE:HB3	18	0.12
(1,3177)	1:122:A:PHE:HD2	1:203:A:PHE:HB2	18	0.12
(1,3177)	1:122:A:PHE:HD2	1:203:A:PHE:HB3	18	0.12
(1,3081)	1:8:A:VAL:H	1:7:A:LYS:HG2	12	0.12
(1,3081)	1:8:A:VAL:H	1:7:A:LYS:HG3	12	0.12
(1,2998)	1:178:A:ASP:HB3	1:153:A:LEU:HA	10	0.12
(1,2988)	1:89:A:VAL:HB	1:86:A:LYS:HA	9	0.12
(1,2922)	1:64:A:ILE:HD11	1:62:A:VAL:HB	15	0.12
(1,2868)	1:157:A:VAL:HA	1:160:A:GLN:HA	4	0.12
(1,2841)	1:166:A:ILE:HD13	1:157:A:VAL:H	11	0.12
(1,2837)	1:34:A:ILE:HG12	1:51:A:PHE:HA	9	0.12
(1,2826)	1:59:A:ILE:HB	1:9:A:VAL:HB	16	0.12
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD11	13	0.12
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD12	13	0.12
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD13	13	0.12
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD21	13	0.12
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD22	13	0.12
(1,2770)	1:101:A:ILE:HD11	1:123:A:LEU:HD23	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG21	3	0.12
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG22	3	0.12
(1,2766)	1:55:A:ALA:HB3	1:54:A:ILE:HG23	3	0.12
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD11	13	0.12
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD12	13	0.12
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD13	13	0.12
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD21	13	0.12
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD22	13	0.12
(1,2759)	1:71:A:GLU:HB3	1:72:A:LEU:HD23	13	0.12
(1,2703)	1:170:A:ALA:HB3	1:171:A:VAL:HB	19	0.12
(1,2640)	1:210:A:ALA:HB1	1:207:A:CYS:HB2	19	0.12
(1,2640)	1:210:A:ALA:HB1	1:207:A:CYS:HB3	19	0.12
(1,2640)	1:210:A:ALA:HB2	1:207:A:CYS:HB2	19	0.12
(1,2640)	1:210:A:ALA:HB2	1:207:A:CYS:HB3	19	0.12
(1,2640)	1:210:A:ALA:HB3	1:207:A:CYS:HB2	19	0.12
(1,2640)	1:210:A:ALA:HB3	1:207:A:CYS:HB3	19	0.12
(1,2596)	1:90:A:VAL:HG23	1:85:A:LEU:HA	5	0.12
(1,2561)	1:65:A:LEU:HG	1:65:A:LEU:HA	1	0.12
(1,2561)	1:65:A:LEU:HG	1:65:A:LEU:HA	7	0.12
(1,2561)	1:65:A:LEU:HG	1:65:A:LEU:HA	8	0.12
(1,2554)	1:175:A:ILE:HD12	1:192:A:VAL:HA	14	0.12
(1,2554)	1:175:A:ILE:HD13	1:153:A:LEU:HA	18	0.12
(1,2546)	1:222:A:LEU:HG	1:222:A:LEU:HA	6	0.12
(1,2546)	1:222:A:LEU:HG	1:222:A:LEU:HA	7	0.12
(1,2546)	1:222:A:LEU:HG	1:222:A:LEU:HA	11	0.12
(1,2546)	1:222:A:LEU:HG	1:222:A:LEU:HA	18	0.12
(1,2546)	1:222:A:LEU:HG	1:222:A:LEU:HA	19	0.12
(1,2529)	1:5:A:LEU:HD12	1:2:A:ASP:HA	10	0.12
(1,2479)	1:194:A:THR:HG23	1:199:A:TYR:HD1	12	0.12
(1,2479)	1:194:A:THR:HG23	1:199:A:TYR:HD2	12	0.12
(1,2435)	1:153:A:LEU:HG	1:179:A:LEU:H	2	0.12
(1,2435)	1:153:A:LEU:HG	1:179:A:LEU:H	9	0.12
(1,2400)	1:34:A:ILE:HD13	1:52:A:TYR:H	1	0.12
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD11	15	0.12
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD12	15	0.12
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD13	15	0.12
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD21	15	0.12
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD22	15	0.12
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD23	15	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG11	4	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG12	4	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG13	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG21	4	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG22	4	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG23	4	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG11	13	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG12	13	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG13	13	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG21	13	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG22	13	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG23	13	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG11	18	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG12	18	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG13	18	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG21	18	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG22	18	0.12
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG23	18	0.12
(1,2327)	1:160:A:GLN:HA	1:157:A:VAL:HA	4	0.12
(1,2257)	1:101:A:ILE:HA	1:100:A:GLU:H	14	0.12
(1,2212)	1:138:A:ASN:HD21	1:137:A:ILE:HA	15	0.12
(1,2212)	1:138:A:ASN:HD22	1:137:A:ILE:HA	15	0.12
(1,1868)	1:11:A:VAL:HA	1:59:A:ILE:HB	4	0.12
(1,1559)	1:197:A:ARG:HB2	1:197:A:ARG:HD2	11	0.12
(1,1559)	1:197:A:ARG:HB2	1:197:A:ARG:HD3	11	0.12
(1,1559)	1:197:A:ARG:HB3	1:197:A:ARG:HD2	11	0.12
(1,1559)	1:197:A:ARG:HB3	1:197:A:ARG:HD3	11	0.12
(1,1383)	1:145:A:TYR:HB2	1:146:A:LYS:HD2	19	0.12
(1,1383)	1:145:A:TYR:HB2	1:146:A:LYS:HD3	19	0.12
(1,1383)	1:145:A:TYR:HB3	1:146:A:LYS:HD2	19	0.12
(1,1383)	1:145:A:TYR:HB3	1:146:A:LYS:HD3	19	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG11	12	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG12	12	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG13	12	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG21	12	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG22	12	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG23	12	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG11	20	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG12	20	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG13	20	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG21	20	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG22	20	0.12
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG23	20	0.12
(1,1074)	1:196:A:TYR:HD1	1:175:A:ILE:HG21	2	0.12
(1,1074)	1:196:A:TYR:HD1	1:175:A:ILE:HG22	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1074)	1:196:A:TYR:HD1	1:175:A:ILE:HG23	2	0.12
(1,1074)	1:196:A:TYR:HD2	1:175:A:ILE:HG21	2	0.12
(1,1074)	1:196:A:TYR:HD2	1:175:A:ILE:HG22	2	0.12
(1,1074)	1:196:A:TYR:HD2	1:175:A:ILE:HG23	2	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG11	6	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG12	6	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG13	6	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG21	6	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG22	6	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG23	6	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG11	16	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG12	16	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG13	16	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG21	16	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG22	16	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG23	16	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG11	18	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG12	18	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG13	18	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG21	18	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG22	18	0.12
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG23	18	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG11	6	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG12	6	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG13	6	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG21	6	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG22	6	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG23	6	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG11	16	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG12	16	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG13	16	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG21	16	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG22	16	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG23	16	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG11	18	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG12	18	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG13	18	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG21	18	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG22	18	0.12
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG23	18	0.12
(1,955)	1:196:A:TYR:HE1	1:175:A:ILE:HG21	20	0.12
(1,955)	1:196:A:TYR:HE1	1:175:A:ILE:HG22	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,955)	1:196:A:TYR:HE1	1:175:A:ILE:HG23	20	0.12
(1,955)	1:196:A:TYR:HE2	1:175:A:ILE:HG21	20	0.12
(1,955)	1:196:A:TYR:HE2	1:175:A:ILE:HG22	20	0.12
(1,955)	1:196:A:TYR:HE2	1:175:A:ILE:HG23	20	0.12
(1,914)	1:191:A:ASN:HD21	1:183:A:ILE:HD11	9	0.12
(1,914)	1:191:A:ASN:HD21	1:183:A:ILE:HD12	9	0.12
(1,914)	1:191:A:ASN:HD21	1:183:A:ILE:HD13	9	0.12
(1,914)	1:191:A:ASN:HD22	1:183:A:ILE:HD11	9	0.12
(1,914)	1:191:A:ASN:HD22	1:183:A:ILE:HD12	9	0.12
(1,914)	1:191:A:ASN:HD22	1:183:A:ILE:HD13	9	0.12
(1,765)	1:87:A:THR:H	1:87:A:THR:HG21	19	0.12
(1,765)	1:87:A:THR:H	1:87:A:THR:HG22	19	0.12
(1,765)	1:87:A:THR:H	1:87:A:THR:HG23	19	0.12
(1,731)	1:148:A:LEU:H	1:142:A:VAL:HB	3	0.12
(1,714)	1:97:A:ASP:H	1:96:A:MET:HE1	15	0.12
(1,714)	1:97:A:ASP:H	1:96:A:MET:HE2	15	0.12
(1,714)	1:97:A:ASP:H	1:96:A:MET:HE3	15	0.12
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB2	20	0.12
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB3	20	0.12
(1,625)	1:143:A:LEU:H	1:142:A:VAL:HB	8	0.12
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG11	10	0.12
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG12	10	0.12
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG13	10	0.12
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG21	10	0.12
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG22	10	0.12
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG23	10	0.12
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG11	10	0.12
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG12	10	0.12
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG13	10	0.12
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG21	10	0.12
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG22	10	0.12
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG23	10	0.12
(1,362)	1:150:A:LEU:HG	1:119:A:ARG:HA	2	0.12
(1,335)	1:120:A:ASP:HB2	1:117:A:GLU:HA	1	0.12
(1,335)	1:120:A:ASP:HB3	1:117:A:GLU:HA	1	0.12
(1,335)	1:120:A:ASP:HB2	1:117:A:GLU:HA	8	0.12
(1,335)	1:120:A:ASP:HB3	1:117:A:GLU:HA	8	0.12
(1,335)	1:120:A:ASP:HB2	1:117:A:GLU:HA	15	0.12
(1,335)	1:120:A:ASP:HB3	1:117:A:GLU:HA	15	0.12
(1,298)	1:119:A:ARG:HB2	1:122:A:PHE:HA	17	0.12
(1,298)	1:119:A:ARG:HB3	1:122:A:PHE:HA	17	0.12
(1,248)	1:130:A:MET:H	1:136:A:PRO:HA	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,168)	1:190:A:TYR:HE1	1:191:A:ASN:HD21	15	0.12
(1,168)	1:190:A:TYR:HE1	1:191:A:ASN:HD22	15	0.12
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD11	8	0.12
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD12	8	0.12
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD13	8	0.12
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD21	8	0.12
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD22	8	0.12
(1,120)	1:199:A:TYR:HE1	1:143:A:LEU:HD23	8	0.12
(1,111)	1:20:A:TRP:HZ2	1:67:A:LEU:HB2	5	0.12
(1,111)	1:20:A:TRP:HZ2	1:67:A:LEU:HB3	5	0.12
(1,101)	1:191:A:ASN:HB2	1:190:A:TYR:HE1	10	0.12
(1,101)	1:191:A:ASN:HB2	1:190:A:TYR:HE2	10	0.12
(1,101)	1:191:A:ASN:HB3	1:190:A:TYR:HE1	10	0.12
(1,101)	1:191:A:ASN:HB3	1:190:A:TYR:HE2	10	0.12
(1,58)	1:96:A:MET:HB2	1:127:A:TYR:HD1	5	0.12
(1,58)	1:96:A:MET:HB2	1:127:A:TYR:HD2	5	0.12
(1,58)	1:96:A:MET:HB3	1:127:A:TYR:HD1	5	0.12
(1,58)	1:96:A:MET:HB3	1:127:A:TYR:HD2	5	0.12
(1,42)	1:50:A:LYS:HA	1:51:A:PHE:HD1	18	0.12
(1,42)	1:50:A:LYS:HA	1:51:A:PHE:HD2	18	0.12
(4,59)	1:206:A:TYR:H	1:202:A:GLY:O	20	0.11
(2,537)	1:118:A:GLU:CB	1:111:A:GLU:N	17	0.11
(2,206)	1:134:A:GLY:HA2	1:202:A:GLY:N	13	0.11
(2,206)	1:134:A:GLY:HA3	1:202:A:GLY:N	13	0.11
(2,68)	1:32:A:ASP:CB	1:205:A:GLU:N	9	0.11
(2,60)	1:32:A:ASP:CB	1:201:A:TYR:N	19	0.11
(1,5851)	1:113:A:GLU:H	1:113:A:GLU:HA	6	0.11
(1,5850)	1:113:A:GLU:HG3	1:113:A:GLU:H	14	0.11
(1,5848)	1:71:A:GLU:HB3	1:72:A:LEU:HG	1	0.11
(1,5848)	1:71:A:GLU:HB3	1:72:A:LEU:HG	11	0.11
(1,5848)	1:71:A:GLU:HB3	1:72:A:LEU:HG	15	0.11
(1,5848)	1:71:A:GLU:HB3	1:72:A:LEU:HG	16	0.11
(1,5835)	1:110:A:LYS:HA	1:110:A:LYS:H	8	0.11
(1,5835)	1:110:A:LYS:HA	1:110:A:LYS:H	12	0.11
(1,5809)	1:5:A:LEU:HG	1:2:A:ASP:HB2	16	0.11
(1,5809)	1:5:A:LEU:HG	1:2:A:ASP:HB3	16	0.11
(1,5808)	1:4:A:LEU:HA	1:4:A:LEU:HG	3	0.11
(1,5808)	1:4:A:LEU:HA	1:4:A:LEU:HG	13	0.11
(1,5799)	1:5:A:LEU:HG	1:2:A:ASP:HB2	16	0.11
(1,5799)	1:5:A:LEU:HG	1:2:A:ASP:HB3	16	0.11
(1,5789)	1:108:A:LYS:H	1:107:A:SER:HB2	15	0.11
(1,5789)	1:108:A:LYS:H	1:107:A:SER:HB3	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5789)	1:108:A:LYS:H	1:107:A:SER:HB2	18	0.11
(1,5789)	1:108:A:LYS:H	1:107:A:SER:HB3	18	0.11
(1,5670)	1:65:A:LEU:HB2	1:93:A:ASN:HD21	3	0.11
(1,5670)	1:65:A:LEU:HB2	1:93:A:ASN:HD22	3	0.11
(1,5670)	1:65:A:LEU:HB3	1:93:A:ASN:HD21	3	0.11
(1,5670)	1:65:A:LEU:HB3	1:93:A:ASN:HD22	3	0.11
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	1	0.11
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	12	0.11
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	19	0.11
(1,5546)	1:8:A:VAL:HB	1:8:A:VAL:H	15	0.11
(1,5497)	1:3:A:GLU:H	1:3:A:GLU:HB2	1	0.11
(1,5497)	1:3:A:GLU:H	1:3:A:GLU:HB3	1	0.11
(1,5497)	1:3:A:GLU:H	1:3:A:GLU:HB2	7	0.11
(1,5497)	1:3:A:GLU:H	1:3:A:GLU:HB3	7	0.11
(1,5497)	1:3:A:GLU:H	1:3:A:GLU:HB2	18	0.11
(1,5497)	1:3:A:GLU:H	1:3:A:GLU:HB3	18	0.11
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB2	16	0.11
(1,5496)	1:20:A:TRP:HE1	1:17:A:ARG:HB3	16	0.11
(1,5474)	1:196:A:TYR:H	1:194:A:THR:HB	6	0.11
(1,5474)	1:196:A:TYR:H	1:194:A:THR:HB	16	0.11
(1,5474)	1:196:A:TYR:H	1:194:A:THR:HB	20	0.11
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	10	0.11
(1,5473)	1:197:A:ARG:H	1:198:A:LYS:HA	15	0.11
(1,5451)	1:126:A:LEU:H	1:122:A:PHE:HB2	5	0.11
(1,5451)	1:126:A:LEU:H	1:122:A:PHE:HB3	5	0.11
(1,5451)	1:126:A:LEU:H	1:122:A:PHE:HB2	15	0.11
(1,5451)	1:126:A:LEU:H	1:122:A:PHE:HB3	15	0.11
(1,5451)	1:126:A:LEU:H	1:122:A:PHE:HB2	19	0.11
(1,5451)	1:126:A:LEU:H	1:122:A:PHE:HB3	19	0.11
(1,5428)	1:23:A:ALA:H	1:20:A:TRP:HZ3	7	0.11
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG2	9	0.11
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG3	9	0.11
(1,5361)	1:199:A:TYR:H	1:197:A:ARG:HB2	11	0.11
(1,5361)	1:199:A:TYR:H	1:197:A:ARG:HB3	11	0.11
(1,5355)	1:48:A:ASP:H	1:77:A:GLY:HA2	12	0.11
(1,5355)	1:48:A:ASP:H	1:77:A:GLY:HA3	12	0.11
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB2	5	0.11
(1,5350)	1:128:A:LYS:H	1:96:A:MET:HB3	5	0.11
(1,5314)	1:20:A:TRP:HE1	1:75:A:LYS:HG2	8	0.11
(1,5314)	1:20:A:TRP:HE1	1:75:A:LYS:HG3	8	0.11
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG2	1	0.11
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG3	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5292)	1:18:A:THR:H	1:19:A:GLU:HG2	8	0.11
(1,5292)	1:18:A:THR:H	1:19:A:GLU:HG3	8	0.11
(1,5283)	1:15:A:THR:H	1:15:A:THR:HA	18	0.11
(1,5283)	1:15:A:THR:H	1:15:A:THR:HA	19	0.11
(1,5275)	1:74:A:THR:H	1:71:A:GLU:HB2	17	0.11
(1,5275)	1:74:A:THR:H	1:71:A:GLU:HB3	17	0.11
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD21	3	0.11
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD22	3	0.11
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD21	6	0.11
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD22	6	0.11
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG11	17	0.11
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG12	17	0.11
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG13	17	0.11
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG21	17	0.11
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG22	17	0.11
(1,5238)	1:10:A:SER:H	1:8:A:VAL:HG23	17	0.11
(1,5233)	1:1:A:ASN:HD21	1:61:A:GLU:HG2	16	0.11
(1,5233)	1:1:A:ASN:HD21	1:61:A:GLU:HG3	16	0.11
(1,5226)	1:82:A:SER:H	1:79:A:GLN:HA	19	0.11
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB1	6	0.11
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB2	6	0.11
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB3	6	0.11
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB1	13	0.11
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB2	13	0.11
(1,5220)	1:185:A:ASN:H	1:188:A:ALA:HB3	13	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD11	7	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD12	7	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD13	7	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD21	7	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD22	7	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD23	7	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD11	10	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD12	10	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD13	10	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD21	10	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD22	10	0.11
(1,5140)	1:72:A:LEU:H	1:72:A:LEU:HD23	10	0.11
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG11	1	0.11
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG12	1	0.11
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG13	1	0.11
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG21	1	0.11
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG22	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG23	1	0.11
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG11	6	0.11
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG12	6	0.11
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG13	6	0.11
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG21	6	0.11
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG22	6	0.11
(1,5137)	1:7:A:LYS:H	1:9:A:VAL:HG23	6	0.11
(1,5136)	1:7:A:LYS:H	1:25:A:VAL:HG11	20	0.11
(1,5136)	1:7:A:LYS:H	1:25:A:VAL:HG12	20	0.11
(1,5136)	1:7:A:LYS:H	1:25:A:VAL:HG13	20	0.11
(1,5136)	1:7:A:LYS:H	1:25:A:VAL:HG21	20	0.11
(1,5136)	1:7:A:LYS:H	1:25:A:VAL:HG22	20	0.11
(1,5136)	1:7:A:LYS:H	1:25:A:VAL:HG23	20	0.11
(1,5107)	1:139:A:LYS:H	1:138:A:ASN:HB2	6	0.11
(1,5107)	1:139:A:LYS:H	1:138:A:ASN:HB3	6	0.11
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD11	16	0.11
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD12	16	0.11
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD13	16	0.11
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD21	16	0.11
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD22	16	0.11
(1,5066)	1:179:A:LEU:H	1:179:A:LEU:HD23	16	0.11
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD11	7	0.11
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD12	7	0.11
(1,5064)	1:100:A:GLU:H	1:101:A:ILE:HD13	7	0.11
(1,5053)	1:78:A:LEU:H	1:80:A:LYS:HG2	18	0.11
(1,5053)	1:78:A:LEU:H	1:80:A:LYS:HG3	18	0.11
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	1	0.11
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	1	0.11
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	3	0.11
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	3	0.11
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	10	0.11
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	10	0.11
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB2	17	0.11
(1,5049)	1:58:A:ASP:H	1:57:A:LYS:HB3	17	0.11
(1,4985)	1:19:A:GLU:H	1:16:A:GLU:HG2	6	0.11
(1,4985)	1:19:A:GLU:H	1:16:A:GLU:HG3	6	0.11
(1,4970)	1:64:A:ILE:H	1:62:A:VAL:HA	9	0.11
(1,4938)	1:148:A:LEU:H	1:142:A:VAL:HG11	17	0.11
(1,4938)	1:148:A:LEU:H	1:142:A:VAL:HG12	17	0.11
(1,4938)	1:148:A:LEU:H	1:142:A:VAL:HG13	17	0.11
(1,4938)	1:148:A:LEU:H	1:142:A:VAL:HG21	17	0.11
(1,4938)	1:148:A:LEU:H	1:142:A:VAL:HG22	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4938)	1:148:A:LEU:H	1:142:A:VAL:HG23	17	0.11
(1,4923)	1:14:A:ALA:H	1:14:A:ALA:HA	10	0.11
(1,4911)	1:172:A:TRP:HE1	1:166:A:ILE:HA	5	0.11
(1,4857)	1:89:A:VAL:H	1:95:A:LYS:H	13	0.11
(1,4788)	1:146:A:LYS:HG2	1:146:A:LYS:H	8	0.11
(1,4788)	1:146:A:LYS:HG3	1:146:A:LYS:H	8	0.11
(1,4775)	1:60:A:LYS:HG2	1:59:A:ILE:H	8	0.11
(1,4775)	1:60:A:LYS:HG3	1:59:A:ILE:H	8	0.11
(1,4745)	1:177:A:MET:HA	1:174:A:GLN:HE21	8	0.11
(1,4745)	1:177:A:MET:HA	1:174:A:GLN:HE22	8	0.11
(1,4659)	1:42:A:LEU:HB2	1:29:A:SER:H	7	0.11
(1,4659)	1:42:A:LEU:HB3	1:29:A:SER:H	7	0.11
(1,4583)	1:98:A:ILE:HD11	1:121:A:ASN:H	1	0.11
(1,4583)	1:98:A:ILE:HD12	1:121:A:ASN:H	1	0.11
(1,4583)	1:98:A:ILE:HD13	1:121:A:ASN:H	1	0.11
(1,4583)	1:98:A:ILE:HD11	1:121:A:ASN:H	6	0.11
(1,4583)	1:98:A:ILE:HD12	1:121:A:ASN:H	6	0.11
(1,4583)	1:98:A:ILE:HD13	1:121:A:ASN:H	6	0.11
(1,4502)	1:133:A:ARG:HE	1:202:A:GLY:H	2	0.11
(1,4480)	1:56:A:ARG:H	1:56:A:ARG:HE	12	0.11
(1,4433)	1:199:A:TYR:HB2	1:196:A:TYR:H	7	0.11
(1,4433)	1:199:A:TYR:HB3	1:196:A:TYR:H	7	0.11
(1,4092)	1:175:A:ILE:HG21	1:159:A:HIS:H	4	0.11
(1,4092)	1:175:A:ILE:HG22	1:159:A:HIS:H	4	0.11
(1,4092)	1:175:A:ILE:HG23	1:159:A:HIS:H	4	0.11
(1,4092)	1:175:A:ILE:HG21	1:159:A:HIS:H	10	0.11
(1,4092)	1:175:A:ILE:HG22	1:159:A:HIS:H	10	0.11
(1,4092)	1:175:A:ILE:HG23	1:159:A:HIS:H	10	0.11
(1,4092)	1:175:A:ILE:HG21	1:159:A:HIS:H	16	0.11
(1,4092)	1:175:A:ILE:HG22	1:159:A:HIS:H	16	0.11
(1,4092)	1:175:A:ILE:HG23	1:159:A:HIS:H	16	0.11
(1,4092)	1:175:A:ILE:HG21	1:159:A:HIS:H	20	0.11
(1,4092)	1:175:A:ILE:HG22	1:159:A:HIS:H	20	0.11
(1,4092)	1:175:A:ILE:HG23	1:159:A:HIS:H	20	0.11
(1,3979)	1:38:A:LYS:HG2	1:38:A:LYS:H	3	0.11
(1,3979)	1:38:A:LYS:HG3	1:38:A:LYS:H	3	0.11
(1,3868)	1:102:A:LEU:HB2	1:103:A:GLU:H	7	0.11
(1,3868)	1:102:A:LEU:HB3	1:103:A:GLU:H	7	0.11
(1,3868)	1:102:A:LEU:HB2	1:103:A:GLU:H	19	0.11
(1,3868)	1:102:A:LEU:HB3	1:103:A:GLU:H	19	0.11
(1,3774)	1:43:A:VAL:HG11	1:24:A:LEU:H	6	0.11
(1,3774)	1:43:A:VAL:HG12	1:24:A:LEU:H	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3774)	1:43:A:VAL:HG13	1:24:A:LEU:H	6	0.11
(1,3774)	1:43:A:VAL:HG21	1:24:A:LEU:H	6	0.11
(1,3774)	1:43:A:VAL:HG22	1:24:A:LEU:H	6	0.11
(1,3774)	1:43:A:VAL:HG23	1:24:A:LEU:H	6	0.11
(1,3747)	1:221:A:GLU:HG2	1:222:A:LEU:H	11	0.11
(1,3747)	1:221:A:GLU:HG3	1:222:A:LEU:H	11	0.11
(1,3676)	1:142:A:VAL:HG11	1:143:A:LEU:H	6	0.11
(1,3676)	1:142:A:VAL:HG12	1:143:A:LEU:H	6	0.11
(1,3676)	1:142:A:VAL:HG13	1:143:A:LEU:H	6	0.11
(1,3676)	1:142:A:VAL:HG21	1:143:A:LEU:H	6	0.11
(1,3676)	1:142:A:VAL:HG22	1:143:A:LEU:H	6	0.11
(1,3676)	1:142:A:VAL:HG23	1:143:A:LEU:H	6	0.11
(1,3524)	1:198:A:LYS:H	1:197:A:ARG:HD2	14	0.11
(1,3524)	1:198:A:LYS:H	1:197:A:ARG:HD3	14	0.11
(1,3507)	1:67:A:LEU:H	1:65:A:LEU:HB2	19	0.11
(1,3507)	1:67:A:LEU:H	1:65:A:LEU:HB3	19	0.11
(1,3486)	1:2:A:ASP:H	1:1:A:ASN:HB2	7	0.11
(1,3486)	1:2:A:ASP:H	1:1:A:ASN:HB3	7	0.11
(1,3310)	1:138:A:ASN:HB2	1:139:A:LYS:HB2	5	0.11
(1,3310)	1:138:A:ASN:HB2	1:139:A:LYS:HB3	5	0.11
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG12	14	0.11
(1,3274)	1:64:A:ILE:HA	1:64:A:ILE:HG13	14	0.11
(1,3270)	1:80:A:LYS:HA	1:83:A:ILE:HG12	17	0.11
(1,3270)	1:80:A:LYS:HA	1:83:A:ILE:HG13	17	0.11
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD11	5	0.11
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD12	5	0.11
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD13	5	0.11
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD21	5	0.11
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD22	5	0.11
(1,3253)	1:65:A:LEU:HA	1:72:A:LEU:HD23	5	0.11
(1,3236)	1:17:A:ARG:HA	1:17:A:ARG:HD2	17	0.11
(1,3236)	1:17:A:ARG:HA	1:17:A:ARG:HD3	17	0.11
(1,3201)	1:2:A:ASP:HA	1:5:A:LEU:HG	7	0.11
(1,3097)	1:177:A:MET:H	1:174:A:GLN:HG2	3	0.11
(1,3097)	1:177:A:MET:H	1:174:A:GLN:HG3	3	0.11
(1,3096)	1:19:A:GLU:H	1:16:A:GLU:HG2	6	0.11
(1,3096)	1:19:A:GLU:H	1:16:A:GLU:HG3	6	0.11
(1,3084)	1:38:A:LYS:H	1:38:A:LYS:HG2	3	0.11
(1,3084)	1:38:A:LYS:H	1:38:A:LYS:HG3	3	0.11
(1,3071)	1:143:A:LEU:H	1:142:A:VAL:HG11	6	0.11
(1,3071)	1:143:A:LEU:H	1:142:A:VAL:HG12	6	0.11
(1,3071)	1:143:A:LEU:H	1:142:A:VAL:HG13	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3071)	1:143:A:LEU:H	1:142:A:VAL:HG21	6	0.11
(1,3071)	1:143:A:LEU:H	1:142:A:VAL:HG22	6	0.11
(1,3071)	1:143:A:LEU:H	1:142:A:VAL:HG23	6	0.11
(1,3051)	1:34:A:ILE:HG23	1:53:A:SER:HA	9	0.11
(1,3037)	1:146:A:LYS:HG2	1:182:A:PRO:HD2	13	0.11
(1,3037)	1:146:A:LYS:HG2	1:182:A:PRO:HD3	13	0.11
(1,2988)	1:86:A:LYS:HG2	1:86:A:LYS:HA	15	0.11
(1,2973)	1:85:A:LEU:HB2	1:82:A:SER:HA	7	0.11
(1,2973)	1:85:A:LEU:HB2	1:82:A:SER:HA	18	0.11
(1,2917)	1:196:A:TYR:HA	1:201:A:TYR:H	4	0.11
(1,2887)	1:101:A:ILE:HB	1:99:A:SER:H	7	0.11
(1,2868)	1:157:A:VAL:HA	1:160:A:GLN:HA	9	0.11
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG21	2	0.11
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG22	2	0.11
(1,2863)	1:48:A:ASP:HA	1:47:A:ILE:HG23	2	0.11
(1,2839)	1:11:A:VAL:HG22	1:23:A:ALA:HA	3	0.11
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD11	3	0.11
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD12	3	0.11
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD13	3	0.11
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD21	3	0.11
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD22	3	0.11
(1,2824)	1:6:A:GLY:HA3	1:5:A:LEU:HD23	3	0.11
(1,2726)	1:61:A:GLU:HG3	1:60:A:LYS:HB2	19	0.11
(1,2726)	1:61:A:GLU:HG3	1:60:A:LYS:HB3	19	0.11
(1,2685)	1:67:A:LEU:HD12	1:71:A:GLU:HB2	2	0.11
(1,2685)	1:67:A:LEU:HD12	1:71:A:GLU:HB3	2	0.11
(1,2645)	1:54:A:ILE:HG23	1:41:A:CYS:HB2	19	0.11
(1,2645)	1:54:A:ILE:HG23	1:41:A:CYS:HB3	19	0.11
(1,2639)	1:11:A:VAL:HG21	1:10:A:SER:HB2	16	0.11
(1,2639)	1:11:A:VAL:HG21	1:10:A:SER:HB3	16	0.11
(1,2636)	1:65:A:LEU:HD11	1:66:A:ASN:HB2	8	0.11
(1,2636)	1:65:A:LEU:HD11	1:66:A:ASN:HB3	8	0.11
(1,2630)	1:47:A:ILE:HD11	1:21:A:TYR:HB2	1	0.11
(1,2630)	1:47:A:ILE:HD11	1:21:A:TYR:HB3	1	0.11
(1,2562)	1:72:A:LEU:HG	1:69:A:GLU:HA	7	0.11
(1,2561)	1:65:A:LEU:HG	1:65:A:LEU:HA	3	0.11
(1,2561)	1:65:A:LEU:HG	1:65:A:LEU:HA	4	0.11
(1,2561)	1:65:A:LEU:HG	1:65:A:LEU:HA	9	0.11
(1,2561)	1:65:A:LEU:HG	1:65:A:LEU:HA	13	0.11
(1,2561)	1:65:A:LEU:HG	1:65:A:LEU:HA	19	0.11
(1,2554)	1:175:A:ILE:HD12	1:153:A:LEU:HA	17	0.11
(1,2546)	1:222:A:LEU:HG	1:222:A:LEU:HA	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2502)	1:42:A:LEU:HG	1:27:A:SER:HA	16	0.11
(1,2474)	1:101:A:ILE:HD13	1:127:A:TYR:HD1	8	0.11
(1,2474)	1:101:A:ILE:HD13	1:127:A:TYR:HD2	8	0.11
(1,2443)	1:83:A:ILE:HD13	1:83:A:ILE:H	1	0.11
(1,2443)	1:83:A:ILE:HD13	1:83:A:ILE:H	2	0.11
(1,2418)	1:200:A:LEU:HD12	1:153:A:LEU:H	9	0.11
(1,2415)	1:19:A:GLU:H	1:16:A:GLU:HG2	6	0.11
(1,2415)	1:19:A:GLU:H	1:16:A:GLU:HG3	6	0.11
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG11	9	0.11
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG12	9	0.11
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG13	9	0.11
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG21	9	0.11
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG22	9	0.11
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG23	9	0.11
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG11	10	0.11
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG12	10	0.11
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG13	10	0.11
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG21	10	0.11
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG22	10	0.11
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG23	10	0.11
(1,2327)	1:160:A:GLN:HA	1:157:A:VAL:HA	9	0.11
(1,2314)	1:88:A:ARG:HA	1:94:A:TRP:HD1	4	0.11
(1,2289)	1:119:A:ARG:HA	1:117:A:GLU:H	10	0.11
(1,2165)	1:126:A:LEU:HB2	1:137:A:ILE:HD11	15	0.11
(1,2165)	1:126:A:LEU:HB2	1:137:A:ILE:HD12	15	0.11
(1,2165)	1:126:A:LEU:HB2	1:137:A:ILE:HD13	15	0.11
(1,2165)	1:126:A:LEU:HB3	1:137:A:ILE:HD11	15	0.11
(1,2165)	1:126:A:LEU:HB3	1:137:A:ILE:HD12	15	0.11
(1,2165)	1:126:A:LEU:HB3	1:137:A:ILE:HD13	15	0.11
(1,2130)	1:142:A:VAL:HA	1:142:A:VAL:HB	15	0.11
(1,2050)	1:201:A:TYR:H	1:137:A:ILE:HD11	12	0.11
(1,2050)	1:201:A:TYR:H	1:137:A:ILE:HD12	12	0.11
(1,2050)	1:201:A:TYR:H	1:137:A:ILE:HD13	12	0.11
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD11	20	0.11
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD12	20	0.11
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD13	20	0.11
(1,1931)	1:160:A:GLN:HE21	1:175:A:ILE:HD11	20	0.11
(1,1931)	1:160:A:GLN:HE21	1:175:A:ILE:HD12	20	0.11
(1,1931)	1:160:A:GLN:HE21	1:175:A:ILE:HD13	20	0.11
(1,1931)	1:160:A:GLN:HE22	1:175:A:ILE:HD11	20	0.11
(1,1931)	1:160:A:GLN:HE22	1:175:A:ILE:HD12	20	0.11
(1,1931)	1:160:A:GLN:HE22	1:175:A:ILE:HD13	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1926)	1:172:A:TRP:HD1	1:157:A:VAL:HG11	10	0.11
(1,1926)	1:172:A:TRP:HD1	1:157:A:VAL:HG12	10	0.11
(1,1926)	1:172:A:TRP:HD1	1:157:A:VAL:HG13	10	0.11
(1,1926)	1:172:A:TRP:HD1	1:157:A:VAL:HG21	10	0.11
(1,1926)	1:172:A:TRP:HD1	1:157:A:VAL:HG22	10	0.11
(1,1926)	1:172:A:TRP:HD1	1:157:A:VAL:HG23	10	0.11
(1,1868)	1:11:A:VAL:HA	1:59:A:ILE:HB	3	0.11
(1,1868)	1:11:A:VAL:HA	1:59:A:ILE:HB	9	0.11
(1,1868)	1:11:A:VAL:HA	1:59:A:ILE:HB	12	0.11
(1,1754)	1:101:A:ILE:HD11	1:96:A:MET:HE1	17	0.11
(1,1754)	1:101:A:ILE:HD11	1:96:A:MET:HE2	17	0.11
(1,1754)	1:101:A:ILE:HD11	1:96:A:MET:HE3	17	0.11
(1,1754)	1:101:A:ILE:HD12	1:96:A:MET:HE1	17	0.11
(1,1754)	1:101:A:ILE:HD12	1:96:A:MET:HE2	17	0.11
(1,1754)	1:101:A:ILE:HD12	1:96:A:MET:HE3	17	0.11
(1,1754)	1:101:A:ILE:HD13	1:96:A:MET:HE1	17	0.11
(1,1754)	1:101:A:ILE:HD13	1:96:A:MET:HE2	17	0.11
(1,1754)	1:101:A:ILE:HD13	1:96:A:MET:HE3	17	0.11
(1,1646)	1:166:A:ILE:HG12	1:175:A:ILE:HD11	2	0.11
(1,1646)	1:166:A:ILE:HG12	1:175:A:ILE:HD12	2	0.11
(1,1646)	1:166:A:ILE:HG12	1:175:A:ILE:HD13	2	0.11
(1,1646)	1:166:A:ILE:HG13	1:175:A:ILE:HD11	2	0.11
(1,1646)	1:166:A:ILE:HG13	1:175:A:ILE:HD12	2	0.11
(1,1646)	1:166:A:ILE:HG13	1:175:A:ILE:HD13	2	0.11
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD11	3	0.11
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD12	3	0.11
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD13	3	0.11
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD21	3	0.11
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD22	3	0.11
(1,1459)	1:147:A:ASP:HB2	1:148:A:LEU:HD23	3	0.11
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD11	3	0.11
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD12	3	0.11
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD13	3	0.11
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD21	3	0.11
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD22	3	0.11
(1,1459)	1:147:A:ASP:HB3	1:148:A:LEU:HD23	3	0.11
(1,1383)	1:145:A:TYR:HB2	1:146:A:LYS:HD2	6	0.11
(1,1383)	1:145:A:TYR:HB2	1:146:A:LYS:HD3	6	0.11
(1,1383)	1:145:A:TYR:HB3	1:146:A:LYS:HD2	6	0.11
(1,1383)	1:145:A:TYR:HB3	1:146:A:LYS:HD3	6	0.11
(1,1370)	1:6:A:GLY:HA2	1:24:A:LEU:HD11	19	0.11
(1,1370)	1:6:A:GLY:HA2	1:24:A:LEU:HD12	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1370)	1:6:A:GLY:HA2	1:24:A:LEU:HD13	19	0.11
(1,1370)	1:6:A:GLY:HA2	1:24:A:LEU:HD21	19	0.11
(1,1370)	1:6:A:GLY:HA2	1:24:A:LEU:HD22	19	0.11
(1,1370)	1:6:A:GLY:HA2	1:24:A:LEU:HD23	19	0.11
(1,1370)	1:6:A:GLY:HA3	1:24:A:LEU:HD11	19	0.11
(1,1370)	1:6:A:GLY:HA3	1:24:A:LEU:HD12	19	0.11
(1,1370)	1:6:A:GLY:HA3	1:24:A:LEU:HD13	19	0.11
(1,1370)	1:6:A:GLY:HA3	1:24:A:LEU:HD21	19	0.11
(1,1370)	1:6:A:GLY:HA3	1:24:A:LEU:HD22	19	0.11
(1,1370)	1:6:A:GLY:HA3	1:24:A:LEU:HD23	19	0.11
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG11	6	0.11
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG12	6	0.11
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG13	6	0.11
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG21	6	0.11
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG22	6	0.11
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG23	6	0.11
(1,1150)	1:91:A:PRO:HA	1:92:A:ASP:HB2	15	0.11
(1,1150)	1:91:A:PRO:HA	1:92:A:ASP:HB3	15	0.11
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG11	4	0.11
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG12	4	0.11
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG13	4	0.11
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG21	4	0.11
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG22	4	0.11
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG23	4	0.11
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG11	4	0.11
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG12	4	0.11
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG13	4	0.11
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG21	4	0.11
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG22	4	0.11
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG23	4	0.11
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD11	12	0.11
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD12	12	0.11
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD13	12	0.11
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD21	12	0.11
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD22	12	0.11
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD23	12	0.11
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD11	12	0.11
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD12	12	0.11
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD13	12	0.11
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD21	12	0.11
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD22	12	0.11
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD23	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG11	8	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG12	8	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG13	8	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG21	8	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG22	8	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG23	8	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG11	9	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG12	9	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG13	9	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG21	9	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG22	9	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG23	9	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG11	11	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG12	11	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG13	11	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG21	11	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG22	11	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG23	11	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG11	12	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG12	12	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG13	12	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG21	12	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG22	12	0.11
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG23	12	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG11	8	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG12	8	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG13	8	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG21	8	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG22	8	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG23	8	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG11	9	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG12	9	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG13	9	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG21	9	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG22	9	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG23	9	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG11	11	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG12	11	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG13	11	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG21	11	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG22	11	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG23	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG11	12	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG12	12	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG13	12	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG21	12	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG22	12	0.11
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG23	12	0.11
(1,914)	1:191:A:ASN:HD21	1:183:A:ILE:HD11	16	0.11
(1,914)	1:191:A:ASN:HD21	1:183:A:ILE:HD12	16	0.11
(1,914)	1:191:A:ASN:HD21	1:183:A:ILE:HD13	16	0.11
(1,914)	1:191:A:ASN:HD22	1:183:A:ILE:HD11	16	0.11
(1,914)	1:191:A:ASN:HD22	1:183:A:ILE:HD12	16	0.11
(1,914)	1:191:A:ASN:HD22	1:183:A:ILE:HD13	16	0.11
(1,914)	1:191:A:ASN:HD21	1:183:A:ILE:HD11	17	0.11
(1,914)	1:191:A:ASN:HD21	1:183:A:ILE:HD12	17	0.11
(1,914)	1:191:A:ASN:HD21	1:183:A:ILE:HD13	17	0.11
(1,914)	1:191:A:ASN:HD22	1:183:A:ILE:HD11	17	0.11
(1,914)	1:191:A:ASN:HD22	1:183:A:ILE:HD12	17	0.11
(1,914)	1:191:A:ASN:HD22	1:183:A:ILE:HD13	17	0.11
(1,909)	1:96:A:MET:H	1:96:A:MET:HE1	6	0.11
(1,909)	1:96:A:MET:H	1:96:A:MET:HE2	6	0.11
(1,909)	1:96:A:MET:H	1:96:A:MET:HE3	6	0.11
(1,896)	1:146:A:LYS:H	1:146:A:LYS:HG2	8	0.11
(1,896)	1:146:A:LYS:H	1:146:A:LYS:HG3	8	0.11
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE1	7	0.11
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE2	7	0.11
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE3	7	0.11
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE1	12	0.11
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE2	12	0.11
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE3	12	0.11
(1,829)	1:129:A:PHE:H	1:96:A:MET:HE1	15	0.11
(1,829)	1:129:A:PHE:H	1:96:A:MET:HE2	15	0.11
(1,829)	1:129:A:PHE:H	1:96:A:MET:HE3	15	0.11
(1,725)	1:210:A:ALA:H	1:212:A:ILE:HB	10	0.11
(1,725)	1:210:A:ALA:H	1:212:A:ILE:HB	17	0.11
(1,707)	1:17:A:ARG:H	1:18:A:THR:HG21	12	0.11
(1,707)	1:17:A:ARG:H	1:18:A:THR:HG22	12	0.11
(1,707)	1:17:A:ARG:H	1:18:A:THR:HG23	12	0.11
(1,687)	1:2:A:ASP:H	1:61:A:GLU:HB2	3	0.11
(1,687)	1:2:A:ASP:H	1:61:A:GLU:HB3	3	0.11
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB2	3	0.11
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB3	3	0.11
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB2	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,681)	1:35:A:THR:H	1:28:A:PRO:HB3	5	0.11
(1,627)	1:10:A:SER:H	1:62:A:VAL:HB	5	0.11
(1,566)	1:54:A:ILE:H	1:36:A:VAL:HG11	14	0.11
(1,566)	1:54:A:ILE:H	1:36:A:VAL:HG12	14	0.11
(1,566)	1:54:A:ILE:H	1:36:A:VAL:HG13	14	0.11
(1,566)	1:54:A:ILE:H	1:36:A:VAL:HG21	14	0.11
(1,566)	1:54:A:ILE:H	1:36:A:VAL:HG22	14	0.11
(1,566)	1:54:A:ILE:H	1:36:A:VAL:HG23	14	0.11
(1,511)	1:47:A:ILE:HG12	1:21:A:TYR:HA	13	0.11
(1,511)	1:47:A:ILE:HG13	1:21:A:TYR:HA	13	0.11
(1,362)	1:150:A:LEU:HG	1:119:A:ARG:HA	6	0.11
(1,353)	1:145:A:TYR:HD1	1:145:A:TYR:HA	16	0.11
(1,353)	1:145:A:TYR:HD2	1:145:A:TYR:HA	16	0.11
(1,279)	1:199:A:TYR:HD1	1:137:A:ILE:HA	18	0.11
(1,279)	1:199:A:TYR:HD2	1:137:A:ILE:HA	18	0.11
(1,263)	1:137:A:ILE:HG12	1:136:A:PRO:HA	4	0.11
(1,263)	1:137:A:ILE:HG13	1:136:A:PRO:HA	4	0.11
(1,249)	1:133:A:ARG:H	1:136:A:PRO:HA	8	0.11
(1,175)	1:190:A:TYR:HA	1:190:A:TYR:HD1	11	0.11
(1,175)	1:190:A:TYR:HA	1:190:A:TYR:HD2	11	0.11
(1,175)	1:190:A:TYR:HA	1:190:A:TYR:HD1	19	0.11
(1,175)	1:190:A:TYR:HA	1:190:A:TYR:HD2	19	0.11
(1,113)	1:176:A:TYR:HD2	1:182:A:PRO:HA	7	0.11
(1,101)	1:191:A:ASN:HB2	1:190:A:TYR:HE1	4	0.11
(1,101)	1:191:A:ASN:HB2	1:190:A:TYR:HE2	4	0.11
(1,101)	1:191:A:ASN:HB3	1:190:A:TYR:HE1	4	0.11
(1,101)	1:191:A:ASN:HB3	1:190:A:TYR:HE2	4	0.11
(1,101)	1:191:A:ASN:HB2	1:190:A:TYR:HE1	9	0.11
(1,101)	1:191:A:ASN:HB2	1:190:A:TYR:HE2	9	0.11
(1,101)	1:191:A:ASN:HB3	1:190:A:TYR:HE1	9	0.11
(1,101)	1:191:A:ASN:HB3	1:190:A:TYR:HE2	9	0.11
(1,32)	1:145:A:TYR:H	1:145:A:TYR:HD1	8	0.11
(1,32)	1:145:A:TYR:H	1:145:A:TYR:HD2	8	0.11
(4,65)	1:209:A:SER:H	1:205:A:GLU:O	12	0.1
(4,63)	1:208:A:ARG:H	1:204:A:GLU:O	4	0.1
(4,59)	1:206:A:TYR:H	1:202:A:GLY:O	15	0.1
(2,132)	1:93:A:ASN:CB	1:75:A:LYS:N	6	0.1
(2,122)	1:93:A:ASN:CB	1:70:A:SER:N	19	0.1
(2,118)	1:93:A:ASN:CB	1:67:A:LEU:N	6	0.1
(2,54)	1:32:A:ASP:CB	1:198:A:LYS:N	10	0.1
(2,36)	1:4:A:LEU:CB	1:210:A:ALA:N	2	0.1
(1,5813)	1:108:A:LYS:HG2	1:106:A:SER:HB2	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5813)	1:108:A:LYS:HG2	1:106:A:SER:HB3	2	0.1
(1,5813)	1:108:A:LYS:HG3	1:106:A:SER:HB2	2	0.1
(1,5813)	1:108:A:LYS:HG3	1:106:A:SER:HB3	2	0.1
(1,5808)	1:4:A:LEU:HA	1:4:A:LEU:HG	8	0.1
(1,5592)	1:43:A:VAL:HG12	1:44:A:ARG:H	6	0.1
(1,5579)	1:34:A:ILE:HA	1:33:A:ASP:H	8	0.1
(1,5573)	1:145:A:TYR:HD2	1:146:A:LYS:H	3	0.1
(1,5508)	1:61:A:GLU:H	1:10:A:SER:HB2	2	0.1
(1,5508)	1:61:A:GLU:H	1:10:A:SER:HB3	2	0.1
(1,5491)	1:37:A:LYS:H	1:37:A:LYS:HE2	9	0.1
(1,5491)	1:37:A:LYS:H	1:37:A:LYS:HE3	9	0.1
(1,5451)	1:126:A:LEU:H	1:122:A:PHE:HB2	13	0.1
(1,5451)	1:126:A:LEU:H	1:122:A:PHE:HB3	13	0.1
(1,5413)	1:170:A:ALA:H	1:168:A:SER:H	12	0.1
(1,5397)	1:127:A:TYR:H	1:137:A:ILE:HG12	20	0.1
(1,5397)	1:127:A:TYR:H	1:137:A:ILE:HG13	20	0.1
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG2	4	0.1
(1,5383)	1:74:A:THR:H	1:71:A:GLU:HG3	4	0.1
(1,5382)	1:74:A:THR:H	1:71:A:GLU:HG2	4	0.1
(1,5382)	1:74:A:THR:H	1:71:A:GLU:HG3	4	0.1
(1,5356)	1:48:A:ASP:H	1:44:A:ARG:HG2	4	0.1
(1,5356)	1:48:A:ASP:H	1:44:A:ARG:HG3	4	0.1
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG2	2	0.1
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG3	2	0.1
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG2	18	0.1
(1,5292)	1:18:A:THR:H	1:16:A:GLU:HG3	18	0.1
(1,5283)	1:15:A:THR:H	1:15:A:THR:HA	4	0.1
(1,5283)	1:15:A:THR:H	1:15:A:THR:HA	13	0.1
(1,5275)	1:74:A:THR:H	1:71:A:GLU:HB2	13	0.1
(1,5275)	1:74:A:THR:H	1:71:A:GLU:HB3	13	0.1
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD21	7	0.1
(1,5244)	1:189:A:SER:H	1:191:A:ASN:HD22	7	0.1
(1,5151)	1:105:A:SER:H	1:105:A:SER:HB2	11	0.1
(1,5151)	1:105:A:SER:H	1:105:A:SER:HB3	11	0.1
(1,5145)	1:52:A:TYR:HD2	1:52:A:TYR:H	17	0.1
(1,5135)	1:99:A:SER:H	1:101:A:ILE:HD11	1	0.1
(1,5135)	1:99:A:SER:H	1:101:A:ILE:HD12	1	0.1
(1,5135)	1:99:A:SER:H	1:101:A:ILE:HD13	1	0.1
(1,5070)	1:40:A:GLN:H	1:56:A:ARG:H	7	0.1
(1,4956)	1:178:A:ASP:H	1:175:A:ILE:HG12	5	0.1
(1,4956)	1:178:A:ASP:H	1:175:A:ILE:HG13	5	0.1
(1,4911)	1:172:A:TRP:HE1	1:166:A:ILE:HA	3	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4911)	1:172:A:TRP:HE1	1:166:A:ILE:HA	15	0.1
(1,4908)	1:20:A:TRP:HE1	1:60:A:LYS:HD2	6	0.1
(1,4908)	1:20:A:TRP:HE1	1:60:A:LYS:HD3	6	0.1
(1,4904)	1:109:A:ASP:HB2	1:110:A:LYS:H	11	0.1
(1,4904)	1:109:A:ASP:HB3	1:110:A:LYS:H	11	0.1
(1,4902)	1:91:A:PRO:HD2	1:93:A:ASN:HD21	4	0.1
(1,4902)	1:91:A:PRO:HD2	1:93:A:ASN:HD22	4	0.1
(1,4902)	1:91:A:PRO:HD3	1:93:A:ASN:HD21	4	0.1
(1,4902)	1:91:A:PRO:HD3	1:93:A:ASN:HD22	4	0.1
(1,4583)	1:98:A:ILE:HD11	1:121:A:ASN:H	2	0.1
(1,4583)	1:98:A:ILE:HD12	1:121:A:ASN:H	2	0.1
(1,4583)	1:98:A:ILE:HD13	1:121:A:ASN:H	2	0.1
(1,4583)	1:98:A:ILE:HD11	1:121:A:ASN:H	15	0.1
(1,4583)	1:98:A:ILE:HD12	1:121:A:ASN:H	15	0.1
(1,4583)	1:98:A:ILE:HD13	1:121:A:ASN:H	15	0.1
(1,4528)	1:205:A:GLU:HB2	1:29:A:SER:H	10	0.1
(1,4528)	1:205:A:GLU:HB3	1:29:A:SER:H	10	0.1
(1,4502)	1:133:A:ARG:HE	1:202:A:GLY:H	13	0.1
(1,4494)	1:177:A:MET:HG2	1:180:A:GLY:H	13	0.1
(1,4494)	1:177:A:MET:HG3	1:180:A:GLY:H	13	0.1
(1,4341)	1:177:A:MET:HE1	1:180:A:GLY:H	10	0.1
(1,4341)	1:177:A:MET:HE2	1:180:A:GLY:H	10	0.1
(1,4341)	1:177:A:MET:HE3	1:180:A:GLY:H	10	0.1
(1,4277)	1:170:A:ALA:HB1	1:168:A:SER:H	5	0.1
(1,4277)	1:170:A:ALA:HB2	1:168:A:SER:H	5	0.1
(1,4277)	1:170:A:ALA:HB3	1:168:A:SER:H	5	0.1
(1,4092)	1:175:A:ILE:HG21	1:159:A:HIS:H	14	0.1
(1,4092)	1:175:A:ILE:HG22	1:159:A:HIS:H	14	0.1
(1,4092)	1:175:A:ILE:HG23	1:159:A:HIS:H	14	0.1
(1,3927)	1:46:A:PHE:HE1	1:80:A:LYS:H	15	0.1
(1,3927)	1:46:A:PHE:HE2	1:80:A:LYS:H	15	0.1
(1,3871)	1:198:A:LYS:HB2	1:201:A:TYR:H	14	0.1
(1,3871)	1:198:A:LYS:HB3	1:201:A:TYR:H	14	0.1
(1,3869)	1:153:A:LEU:HG	1:179:A:LEU:H	4	0.1
(1,3869)	1:153:A:LEU:HG	1:179:A:LEU:H	12	0.1
(1,3845)	1:109:A:ASP:HB2	1:110:A:LYS:H	11	0.1
(1,3845)	1:109:A:ASP:HB3	1:110:A:LYS:H	11	0.1
(1,3821)	1:222:A:LEU:HA	1:223:A:GLU:H	19	0.1
(1,3619)	1:15:A:THR:HG21	1:14:A:ALA:H	8	0.1
(1,3619)	1:15:A:THR:HG22	1:14:A:ALA:H	8	0.1
(1,3619)	1:15:A:THR:HG23	1:14:A:ALA:H	8	0.1
(1,3619)	1:15:A:THR:HG21	1:14:A:ALA:H	19	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3619)	1:15:A:THR:HG22	1:14:A:ALA:H	19	0.1
(1,3619)	1:15:A:THR:HG23	1:14:A:ALA:H	19	0.1
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB2	2	0.1
(1,3481)	1:175:A:ILE:HA	1:177:A:MET:HB3	2	0.1
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG11	3	0.1
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG12	3	0.1
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG13	3	0.1
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG21	3	0.1
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG22	3	0.1
(1,3409)	1:64:A:ILE:HG12	1:62:A:VAL:HG23	3	0.1
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE2	14	0.1
(1,3390)	1:87:A:THR:HG21	1:86:A:LYS:HE3	14	0.1
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE2	14	0.1
(1,3390)	1:87:A:THR:HG22	1:86:A:LYS:HE3	14	0.1
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE2	14	0.1
(1,3390)	1:87:A:THR:HG23	1:86:A:LYS:HE3	14	0.1
(1,3381)	1:72:A:LEU:HB2	1:79:A:GLN:HG2	1	0.1
(1,3381)	1:72:A:LEU:HB2	1:79:A:GLN:HG3	1	0.1
(1,3381)	1:72:A:LEU:HB3	1:79:A:GLN:HG2	1	0.1
(1,3381)	1:72:A:LEU:HB3	1:79:A:GLN:HG3	1	0.1
(1,3201)	1:2:A:ASP:HA	1:5:A:LEU:HG	16	0.1
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD11	16	0.1
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD12	16	0.1
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD13	16	0.1
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD21	16	0.1
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD22	16	0.1
(1,3102)	1:87:A:THR:H	1:85:A:LEU:HD23	16	0.1
(1,3069)	1:14:A:ALA:H	1:15:A:THR:HG21	19	0.1
(1,3069)	1:14:A:ALA:H	1:15:A:THR:HG22	19	0.1
(1,3069)	1:14:A:ALA:H	1:15:A:THR:HG23	19	0.1
(1,2841)	1:166:A:ILE:HD13	1:157:A:VAL:H	6	0.1
(1,2804)	1:171:A:VAL:HG13	1:175:A:ILE:HD11	9	0.1
(1,2804)	1:171:A:VAL:HG13	1:175:A:ILE:HD12	9	0.1
(1,2804)	1:171:A:VAL:HG13	1:175:A:ILE:HD13	9	0.1
(1,2718)	1:90:A:VAL:HG12	1:65:A:LEU:HG	10	0.1
(1,2645)	1:54:A:ILE:HG23	1:41:A:CYS:HB2	3	0.1
(1,2645)	1:54:A:ILE:HG23	1:41:A:CYS:HB3	3	0.1
(1,2639)	1:11:A:VAL:HG11	1:20:A:TRP:HB2	11	0.1
(1,2639)	1:11:A:VAL:HG11	1:20:A:TRP:HB3	11	0.1
(1,2564)	1:157:A:VAL:HG12	1:153:A:LEU:HA	15	0.1
(1,2561)	1:65:A:LEU:HG	1:65:A:LEU:HA	15	0.1
(1,2561)	1:65:A:LEU:HG	1:65:A:LEU:HA	16	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2561)	1:65:A:LEU:HG	1:65:A:LEU:HA	18	0.1
(1,2546)	1:222:A:LEU:HG	1:222:A:LEU:HA	9	0.1
(1,2435)	1:153:A:LEU:HG	1:179:A:LEU:H	4	0.1
(1,2435)	1:153:A:LEU:HG	1:179:A:LEU:H	12	0.1
(1,2428)	1:64:A:ILE:HD13	1:65:A:LEU:H	7	0.1
(1,2398)	1:9:A:VAL:HG22	1:10:A:SER:H	9	0.1
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD11	7	0.1
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD12	7	0.1
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD13	7	0.1
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD21	7	0.1
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD22	7	0.1
(1,2360)	1:66:A:ASN:HA	1:65:A:LEU:HD23	7	0.1
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG11	5	0.1
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG12	5	0.1
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG13	5	0.1
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG21	5	0.1
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG22	5	0.1
(1,2349)	1:20:A:TRP:HA	1:12:A:VAL:HG23	5	0.1
(1,2289)	1:119:A:ARG:HA	1:117:A:GLU:H	9	0.1
(1,2188)	1:119:A:ARG:HB2	1:116:A:PRO:HA	1	0.1
(1,2188)	1:119:A:ARG:HB3	1:116:A:PRO:HA	1	0.1
(1,2174)	1:151:A:PHE:HD1	1:122:A:PHE:HA	9	0.1
(1,2174)	1:151:A:PHE:HD2	1:122:A:PHE:HA	9	0.1
(1,2139)	1:223:A:GLU:H	1:222:A:LEU:HA	19	0.1
(1,2050)	1:201:A:TYR:H	1:137:A:ILE:HD11	20	0.1
(1,2050)	1:201:A:TYR:H	1:137:A:ILE:HD12	20	0.1
(1,2050)	1:201:A:TYR:H	1:137:A:ILE:HD13	20	0.1
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD11	6	0.1
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD12	6	0.1
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD13	6	0.1
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD11	16	0.1
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD12	16	0.1
(1,1933)	1:196:A:TYR:H	1:175:A:ILE:HD13	16	0.1
(1,1469)	1:165:A:ASN:HB2	1:171:A:VAL:HG11	2	0.1
(1,1469)	1:165:A:ASN:HB2	1:171:A:VAL:HG12	2	0.1
(1,1469)	1:165:A:ASN:HB2	1:171:A:VAL:HG13	2	0.1
(1,1469)	1:165:A:ASN:HB2	1:171:A:VAL:HG21	2	0.1
(1,1469)	1:165:A:ASN:HB2	1:171:A:VAL:HG22	2	0.1
(1,1469)	1:165:A:ASN:HB2	1:171:A:VAL:HG23	2	0.1
(1,1469)	1:165:A:ASN:HB3	1:171:A:VAL:HG11	2	0.1
(1,1469)	1:165:A:ASN:HB3	1:171:A:VAL:HG12	2	0.1
(1,1469)	1:165:A:ASN:HB3	1:171:A:VAL:HG13	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1469)	1:165:A:ASN:HB3	1:171:A:VAL:HG21	2	0.1
(1,1469)	1:165:A:ASN:HB3	1:171:A:VAL:HG22	2	0.1
(1,1469)	1:165:A:ASN:HB3	1:171:A:VAL:HG23	2	0.1
(1,1446)	1:139:A:LYS:HE2	1:137:A:ILE:HD11	15	0.1
(1,1446)	1:139:A:LYS:HE2	1:137:A:ILE:HD12	15	0.1
(1,1446)	1:139:A:LYS:HE2	1:137:A:ILE:HD13	15	0.1
(1,1446)	1:139:A:LYS:HE3	1:137:A:ILE:HD11	15	0.1
(1,1446)	1:139:A:LYS:HE3	1:137:A:ILE:HD12	15	0.1
(1,1446)	1:139:A:LYS:HE3	1:137:A:ILE:HD13	15	0.1
(1,1383)	1:145:A:TYR:HB2	1:146:A:LYS:HD2	1	0.1
(1,1383)	1:145:A:TYR:HB2	1:146:A:LYS:HD3	1	0.1
(1,1383)	1:145:A:TYR:HB3	1:146:A:LYS:HD2	1	0.1
(1,1383)	1:145:A:TYR:HB3	1:146:A:LYS:HD3	1	0.1
(1,1383)	1:145:A:TYR:HB2	1:146:A:LYS:HD2	4	0.1
(1,1383)	1:145:A:TYR:HB2	1:146:A:LYS:HD3	4	0.1
(1,1383)	1:145:A:TYR:HB3	1:146:A:LYS:HD2	4	0.1
(1,1383)	1:145:A:TYR:HB3	1:146:A:LYS:HD3	4	0.1
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD11	13	0.1
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD12	13	0.1
(1,1380)	1:53:A:SER:HB2	1:34:A:ILE:HD13	13	0.1
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD11	13	0.1
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD12	13	0.1
(1,1380)	1:53:A:SER:HB3	1:34:A:ILE:HD13	13	0.1
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG11	13	0.1
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG12	13	0.1
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG13	13	0.1
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG21	13	0.1
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG22	13	0.1
(1,1251)	1:141:A:PRO:HA	1:142:A:VAL:HG23	13	0.1
(1,1197)	1:143:A:LEU:HA	1:195:A:ALA:HB1	4	0.1
(1,1197)	1:143:A:LEU:HA	1:195:A:ALA:HB2	4	0.1
(1,1197)	1:143:A:LEU:HA	1:195:A:ALA:HB3	4	0.1
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG11	2	0.1
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG12	2	0.1
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG13	2	0.1
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG21	2	0.1
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG22	2	0.1
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG23	2	0.1
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG11	2	0.1
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG12	2	0.1
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG13	2	0.1
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG21	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG22	2	0.1
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG23	2	0.1
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG11	14	0.1
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG12	14	0.1
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG13	14	0.1
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG21	14	0.1
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG22	14	0.1
(1,1061)	1:46:A:PHE:HD1	1:8:A:VAL:HG23	14	0.1
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG11	14	0.1
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG12	14	0.1
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG13	14	0.1
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG21	14	0.1
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG22	14	0.1
(1,1061)	1:46:A:PHE:HD2	1:8:A:VAL:HG23	14	0.1
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD11	18	0.1
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD12	18	0.1
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD13	18	0.1
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD21	18	0.1
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD22	18	0.1
(1,1056)	1:46:A:PHE:HD1	1:85:A:LEU:HD23	18	0.1
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD11	18	0.1
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD12	18	0.1
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD13	18	0.1
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD21	18	0.1
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD22	18	0.1
(1,1056)	1:46:A:PHE:HD2	1:85:A:LEU:HD23	18	0.1
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG11	7	0.1
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG12	7	0.1
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG13	7	0.1
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG21	7	0.1
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG22	7	0.1
(1,1035)	1:172:A:TRP:H	1:157:A:VAL:HG23	7	0.1
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG11	7	0.1
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG12	7	0.1
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG13	7	0.1
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG21	7	0.1
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG22	7	0.1
(1,992)	1:172:A:TRP:H	1:157:A:VAL:HG23	7	0.1
(1,955)	1:196:A:TYR:HE1	1:175:A:ILE:HG21	3	0.1
(1,955)	1:196:A:TYR:HE1	1:175:A:ILE:HG22	3	0.1
(1,955)	1:196:A:TYR:HE1	1:175:A:ILE:HG23	3	0.1
(1,955)	1:196:A:TYR:HE2	1:175:A:ILE:HG21	3	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,955)	1:196:A:TYR:HE2	1:175:A:ILE:HG22	3	0.1
(1,955)	1:196:A:TYR:HE2	1:175:A:ILE:HG23	3	0.1
(1,914)	1:191:A:ASN:HD21	1:183:A:ILE:HD11	8	0.1
(1,914)	1:191:A:ASN:HD21	1:183:A:ILE:HD12	8	0.1
(1,914)	1:191:A:ASN:HD21	1:183:A:ILE:HD13	8	0.1
(1,914)	1:191:A:ASN:HD22	1:183:A:ILE:HD11	8	0.1
(1,914)	1:191:A:ASN:HD22	1:183:A:ILE:HD12	8	0.1
(1,914)	1:191:A:ASN:HD22	1:183:A:ILE:HD13	8	0.1
(1,876)	1:146:A:LYS:H	1:142:A:VAL:HB	8	0.1
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE1	9	0.1
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE2	9	0.1
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE3	9	0.1
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE1	16	0.1
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE2	16	0.1
(1,862)	1:131:A:GLU:H	1:96:A:MET:HE3	16	0.1
(1,771)	1:199:A:TYR:H	1:130:A:MET:HE1	8	0.1
(1,771)	1:199:A:TYR:H	1:130:A:MET:HE2	8	0.1
(1,771)	1:199:A:TYR:H	1:130:A:MET:HE3	8	0.1
(1,763)	1:150:A:LEU:H	1:150:A:LEU:HD11	14	0.1
(1,763)	1:150:A:LEU:H	1:150:A:LEU:HD12	14	0.1
(1,763)	1:150:A:LEU:H	1:150:A:LEU:HD13	14	0.1
(1,763)	1:150:A:LEU:H	1:150:A:LEU:HD21	14	0.1
(1,763)	1:150:A:LEU:H	1:150:A:LEU:HD22	14	0.1
(1,763)	1:150:A:LEU:H	1:150:A:LEU:HD23	14	0.1
(1,731)	1:148:A:LEU:H	1:142:A:VAL:HB	17	0.1
(1,707)	1:17:A:ARG:H	1:18:A:THR:HG21	19	0.1
(1,707)	1:17:A:ARG:H	1:18:A:THR:HG22	19	0.1
(1,707)	1:17:A:ARG:H	1:18:A:THR:HG23	19	0.1
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG11	7	0.1
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG12	7	0.1
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG13	7	0.1
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG21	7	0.1
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG22	7	0.1
(1,560)	1:9:A:VAL:H	1:62:A:VAL:HG23	7	0.1
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG11	7	0.1
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG12	7	0.1
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG13	7	0.1
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG21	7	0.1
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG22	7	0.1
(1,559)	1:9:A:VAL:H	1:62:A:VAL:HG23	7	0.1
(1,263)	1:137:A:ILE:HG12	1:136:A:PRO:HA	3	0.1
(1,263)	1:137:A:ILE:HG13	1:136:A:PRO:HA	3	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,263)	1:137:A:ILE:HG12	1:136:A:PRO:HA	5	0.1
(1,263)	1:137:A:ILE:HG13	1:136:A:PRO:HA	5	0.1
(1,263)	1:137:A:ILE:HG12	1:136:A:PRO:HA	7	0.1
(1,263)	1:137:A:ILE:HG13	1:136:A:PRO:HA	7	0.1
(1,263)	1:137:A:ILE:HG12	1:136:A:PRO:HA	19	0.1
(1,263)	1:137:A:ILE:HG13	1:136:A:PRO:HA	19	0.1
(1,249)	1:133:A:ARG:H	1:136:A:PRO:HA	5	0.1
(1,248)	1:130:A:MET:H	1:136:A:PRO:HA	4	0.1
(1,248)	1:130:A:MET:H	1:136:A:PRO:HA	17	0.1
(1,120)	1:199:A:TYR:HE1	1:137:A:ILE:HG12	2	0.1
(1,120)	1:199:A:TYR:HE1	1:137:A:ILE:HG13	2	0.1
(1,117)	1:52:A:TYR:HD2	1:52:A:TYR:H	17	0.1
(1,101)	1:191:A:ASN:HB2	1:190:A:TYR:HE1	11	0.1
(1,101)	1:191:A:ASN:HB2	1:190:A:TYR:HE2	11	0.1
(1,101)	1:191:A:ASN:HB3	1:190:A:TYR:HE1	11	0.1
(1,101)	1:191:A:ASN:HB3	1:190:A:TYR:HE2	11	0.1
(1,101)	1:191:A:ASN:HB2	1:190:A:TYR:HE1	17	0.1
(1,101)	1:191:A:ASN:HB2	1:190:A:TYR:HE2	17	0.1
(1,101)	1:191:A:ASN:HB3	1:190:A:TYR:HE1	17	0.1
(1,101)	1:191:A:ASN:HB3	1:190:A:TYR:HE2	17	0.1

10 Dihedral-angle violation analysis

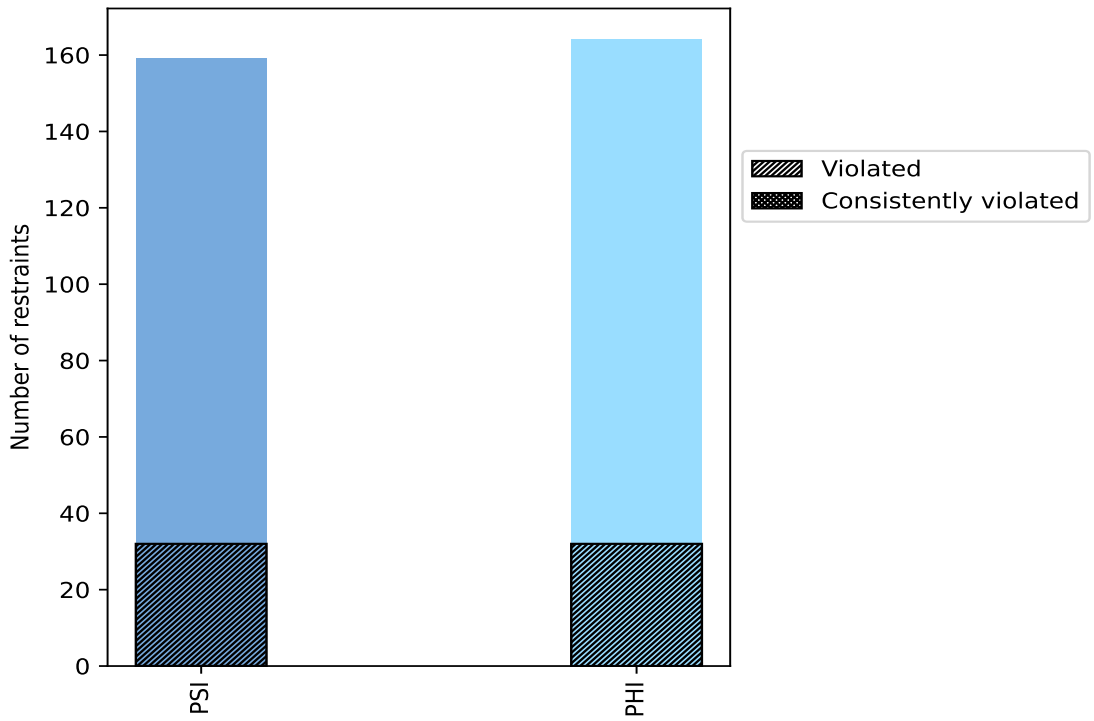
10.1 Summary of dihedral-angle violations

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

Angle type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
PSI	159	49.2	32	20.1	9.9	0	0.0	0.0
PHI	164	50.8	32	19.5	9.9	0	0.0	0.0
Total	323	100.0	64	19.8	19.8	0	0.0	0.0

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

10.1.1 Bar chart : Distribution of dihedral-angles and violations



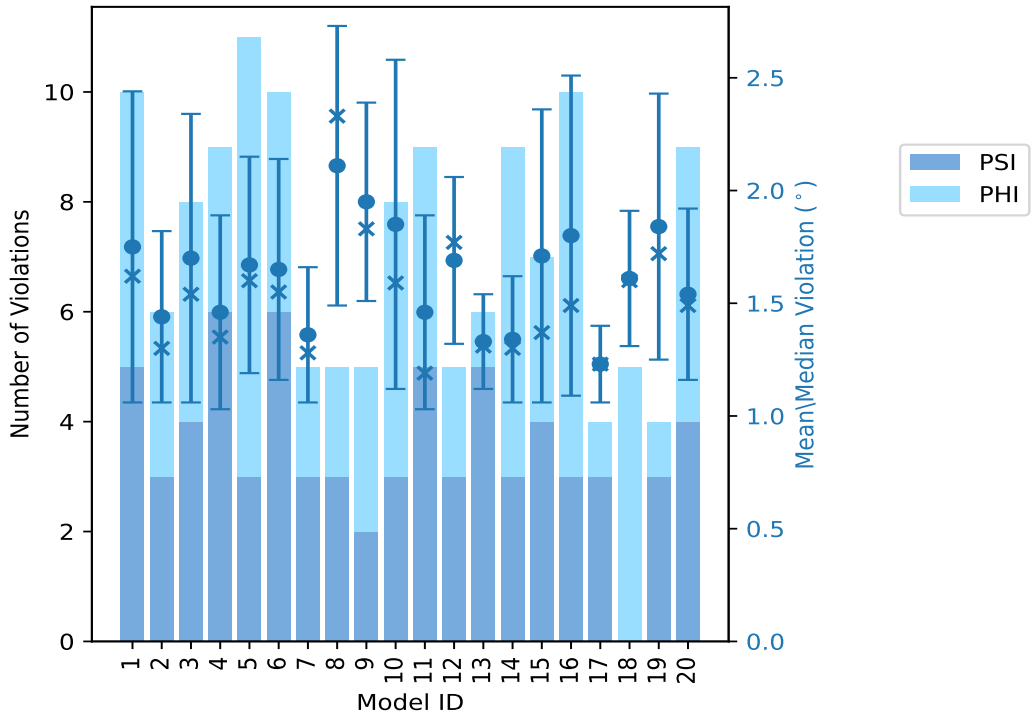
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	Total				
1	5	5	10	1.75	3.31	0.69	1.62
2	3	3	6	1.44	2.27	0.38	1.3
3	4	4	8	1.7	3.09	0.64	1.54
4	6	3	9	1.46	2.4	0.43	1.35
5	3	8	11	1.67	2.45	0.48	1.6
6	6	4	10	1.65	2.81	0.49	1.55
7	3	2	5	1.36	1.92	0.3	1.28
8	3	2	5	2.11	2.83	0.62	2.33
9	2	3	5	1.95	2.65	0.44	1.83
10	3	5	8	1.85	3.14	0.73	1.59
11	5	4	9	1.46	2.2	0.43	1.19
12	3	2	5	1.69	2.19	0.37	1.77
13	5	1	6	1.33	1.73	0.21	1.31
14	3	6	9	1.34	2.04	0.28	1.3
15	4	3	7	1.71	2.91	0.65	1.37
16	3	7	10	1.8	3.68	0.71	1.49
17	3	1	4	1.23	1.43	0.17	1.23
18	0	5	5	1.61	2.09	0.3	1.6
19	3	1	4	1.84	2.77	0.59	1.72
20	4	5	9	1.54	2.37	0.38	1.49

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	
PSI	PHI	Total	Count[1]	%
18	17	35	1	5.0
5	6	11	2	10.0
3	3	6	3	15.0
2	2	4	4	20.0
1	0	1	5	25.0
2	2	4	6	30.0
0	1	1	7	35.0
0	0	0	8	40.0
1	1	2	9	45.0
0	0	0	10	50.0
0	0	0	11	55.0

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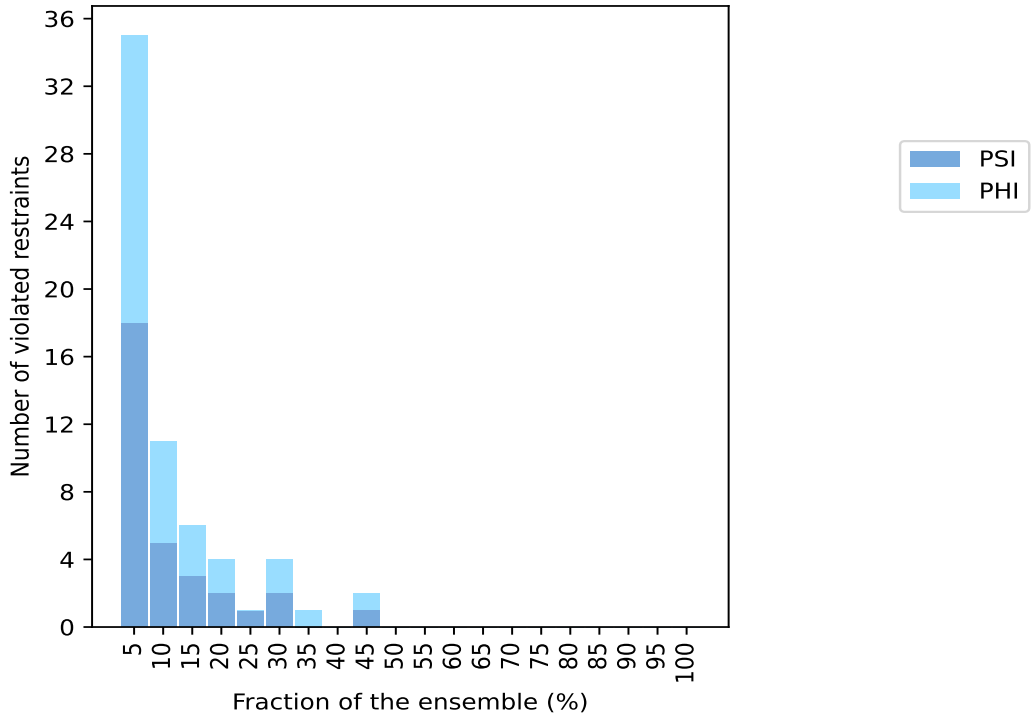
Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count[1]	%
0	0	0	12	60.0
0	0	0	13	65.0
0	0	0	14	70.0
0	0	0	15	75.0
0	0	0	16	80.0
0	0	0	17	85.0
0	0	0	18	90.0
0	0	0	19	95.0
0	0	0	20	100.0

[1] Number of models with violations

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

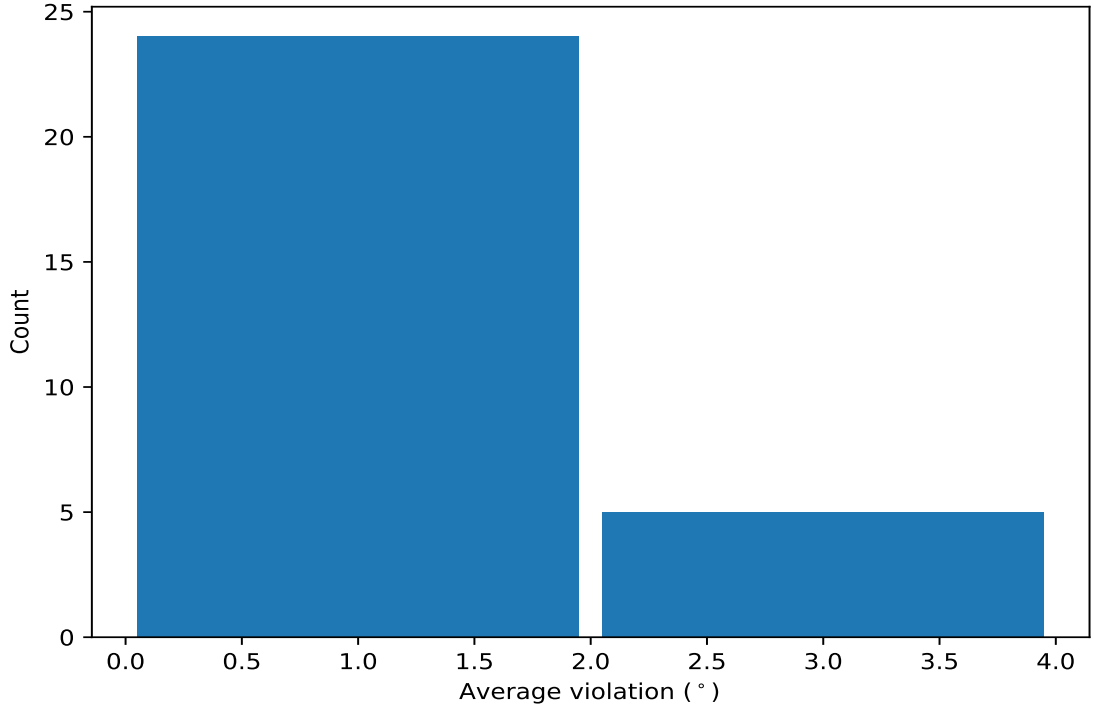


10.4 Most violated dihedral-angle restraints in the ensemble

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
(1,36)	1:31:A:ASN:C	1:32:A:ASP:N	1:32:A:ASP:CA	1:32:A:ASP:C	9	1.72	0.49	1.55
(1,4)	1:6:A:GLY:N	1:6:A:GLY:CA	1:6:A:GLY:C	1:7:A:LYS:N	9	1.39	0.3	1.42
(1,149)	1:101:A:ILE:C	1:102:A:LEU:N	1:102:A:LEU:CA	1:102:A:LEU:C	7	1.44	0.39	1.28
(1,131)	1:91:A:PRO:C	1:92:A:ASP:N	1:92:A:ASP:CA	1:92:A:ASP:C	6	2.64	0.63	2.5
(1,285)	1:197:A:ARG:N	1:197:A:ARG:CA	1:197:A:ARG:C	1:198:A:LYS:N	6	2.0	0.58	1.9
(1,16)	1:16:A:GLU:C	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	6	1.89	0.53	1.81
(1,320)	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	1:51:A:PHE:N	6	1.46	0.5	1.21
(1,68)	1:51:A:PHE:N	1:51:A:PHE:CA	1:51:A:PHE:C	1:52:A:TYR:N	5	1.53	0.36	1.3
(1,315)	1:213:A:GLN:N	1:213:A:GLN:CA	1:213:A:GLN:C	1:214:A:PHE:N	4	2.0	0.44	1.91
(1,134)	1:93:A:ASN:N	1:93:A:ASN:CA	1:93:A:ASN:C	1:94:A:TRP:N	4	1.95	0.7	1.77
(1,234)	1:166:A:ILE:C	1:167:A:ASP:N	1:167:A:ASP:CA	1:167:A:ASP:C	4	1.47	0.14	1.47
(1,61)	1:45:A:SER:C	1:46:A:PHE:N	1:46:A:PHE:CA	1:46:A:PHE:C	4	1.37	0.1	1.38
(1,175)	1:129:A:PHE:N	1:129:A:PHE:CA	1:129:A:PHE:C	1:130:A:MET:N	3	2.27	0.77	2.04
(1,286)	1:197:A:ARG:C	1:198:A:LYS:N	1:198:A:LYS:CA	1:198:A:LYS:C	3	2.09	0.2	2.14
(1,151)	1:116:A:PRO:C	1:117:A:GLU:N	1:117:A:GLU:CA	1:117:A:GLU:C	3	1.95	0.36	2.04
(1,197)	1:146:A:LYS:N	1:146:A:LYS:CA	1:146:A:LYS:C	1:147:A:ASP:N	3	1.94	0.33	2.07
(1,289)	1:199:A:TYR:N	1:199:A:TYR:CA	1:199:A:TYR:C	1:200:A:LEU:N	3	1.91	0.67	1.63
(1,258)	1:178:A:ASP:C	1:179:A:LEU:N	1:179:A:LEU:CA	1:179:A:LEU:C	3	1.85	0.48	1.73
(1,102)	1:69:A:GLU:N	1:69:A:GLU:CA	1:69:A:GLU:C	1:70:A:SER:N	2	1.94	0.84	1.94
(1,137)	1:95:A:LYS:C	1:96:A:MET:N	1:96:A:MET:CA	1:96:A:MET:C	2	1.87	0.36	1.87

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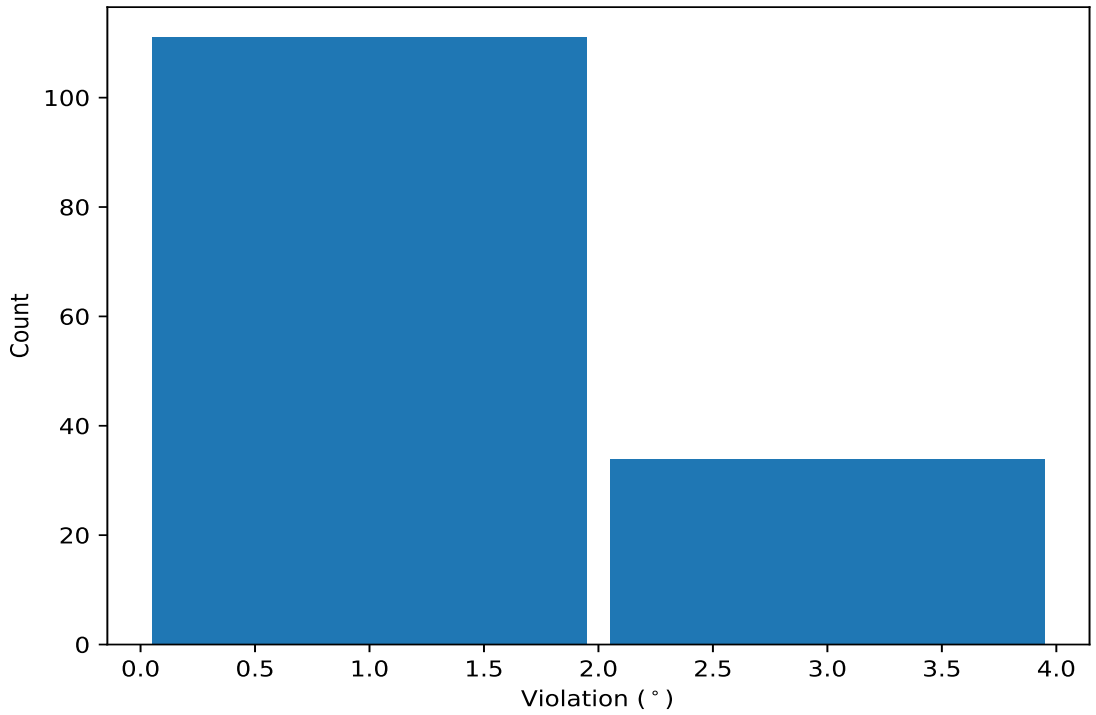
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,3)	1:5:A:LEU:C	1:6:A:GLY:N	1:6:A:GLY:CA	1:6:A:GLY:C	2	1.83	0.08	1.83
(1,191)	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	1:143:A:LEU:N	2	1.71	0.57	1.71
(1,1)	1:2:A:ASP:C	1:3:A:GLU:N	1:3:A:GLU:CA	1:3:A:GLU:C	2	1.6	0.54	1.6
(1,58)	1:44:A:ARG:N	1:44:A:ARG:CA	1:44:A:ARG:C	1:45:A:SER:N	2	1.54	0.05	1.54
(1,138)	1:96:A:MET:N	1:96:A:MET:CA	1:96:A:MET:C	1:97:A:ASP:N	2	1.3	0.3	1.3
(1,105)	1:70:A:SER:C	1:71:A:GLU:N	1:71:A:GLU:CA	1:71:A:GLU:C	2	1.2	0.08	1.2
(1,69)	1:51:A:PHE:C	1:52:A:TYR:N	1:52:A:TYR:CA	1:52:A:TYR:C	2	1.2	0.12	1.2
(1,314)	1:212:A:ILE:C	1:213:A:GLN:N	1:213:A:GLN:CA	1:213:A:GLN:C	2	1.18	0.07	1.18
(1,181)	1:132:A:ASP:N	1:132:A:ASP:CA	1:132:A:ASP:C	1:133:A:ARG:N	2	1.15	0.01	1.15

[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 (°)
(1,131)	1:91:A:PRO:C	1:92:A:ASP:N	1:92:A:ASP:CA	1:92:A:ASP:C	16	3.68
(1,175)	1:129:A:PHE:N	1:129:A:PHE:CA	1:129:A:PHE:C	1:130:A:MET:N	1	3.31
(1,131)	1:91:A:PRO:C	1:92:A:ASP:N	1:92:A:ASP:CA	1:92:A:ASP:C	10	3.14
(1,134)	1:93:A:ASN:N	1:93:A:ASN:CA	1:93:A:ASN:C	1:94:A:TRP:N	3	3.09
(1,285)	1:197:A:ARG:N	1:197:A:ARG:CA	1:197:A:ARG:C	1:198:A:LYS:N	15	2.91
(1,289)	1:199:A:TYR:N	1:199:A:TYR:CA	1:199:A:TYR:C	1:200:A:LEU:N	8	2.83
(1,131)	1:91:A:PRO:C	1:92:A:ASP:N	1:92:A:ASP:CA	1:92:A:ASP:C	6	2.81
(1,102)	1:69:A:GLU:N	1:69:A:GLU:CA	1:69:A:GLU:C	1:70:A:SER:N	19	2.77
(1,315)	1:213:A:GLN:N	1:213:A:GLN:CA	1:213:A:GLN:C	1:214:A:PHE:N	10	2.7
(1,16)	1:16:A:GLU:C	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	9	2.65
(1,285)	1:197:A:ARG:N	1:197:A:ARG:CA	1:197:A:ARG:C	1:198:A:LYS:N	8	2.55
(1,258)	1:178:A:ASP:C	1:179:A:LEU:N	1:179:A:LEU:CA	1:179:A:LEU:C	1	2.49
(1,36)	1:31:A:ASN:C	1:32:A:ASP:N	1:32:A:ASP:CA	1:32:A:ASP:C	15	2.47
(1,36)	1:31:A:ASN:C	1:32:A:ASP:N	1:32:A:ASP:CA	1:32:A:ASP:C	5	2.45
(1,320)	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	1:51:A:PHE:N	4	2.4
(1,16)	1:16:A:GLU:C	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	20	2.37
(1,151)	1:116:A:PRO:C	1:117:A:GLU:N	1:117:A:GLU:CA	1:117:A:GLU:C	8	2.33
(1,286)	1:197:A:ARG:C	1:198:A:LYS:N	1:198:A:LYS:CA	1:198:A:LYS:C	10	2.31
(1,191)	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	1:143:A:LEU:N	5	2.28
(1,197)	1:146:A:LYS:N	1:146:A:LYS:CA	1:146:A:LYS:C	1:147:A:ASP:N	2	2.27
(1,137)	1:95:A:LYS:C	1:96:A:MET:N	1:96:A:MET:CA	1:96:A:MET:C	9	2.23
(1,131)	1:91:A:PRO:C	1:92:A:ASP:N	1:92:A:ASP:CA	1:92:A:ASP:C	11	2.2
(1,16)	1:16:A:GLU:C	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	12	2.19
(1,149)	1:101:A:ILE:C	1:102:A:LEU:N	1:102:A:LEU:CA	1:102:A:LEU:C	5	2.17
(1,36)	1:31:A:ASN:C	1:32:A:ASP:N	1:32:A:ASP:CA	1:32:A:ASP:C	1	2.17
(1,68)	1:51:A:PHE:N	1:51:A:PHE:CA	1:51:A:PHE:C	1:52:A:TYR:N	16	2.15
(1,286)	1:197:A:ARG:C	1:198:A:LYS:N	1:198:A:LYS:CA	1:198:A:LYS:C	16	2.14
(1,1)	1:2:A:ASP:C	1:3:A:GLU:N	1:3:A:GLU:CA	1:3:A:GLU:C	3	2.14
(1,131)	1:91:A:PRO:C	1:92:A:ASP:N	1:92:A:ASP:CA	1:92:A:ASP:C	18	2.09
(1,197)	1:146:A:LYS:N	1:146:A:LYS:CA	1:146:A:LYS:C	1:147:A:ASP:N	6	2.07
(1,175)	1:129:A:PHE:N	1:129:A:PHE:CA	1:129:A:PHE:C	1:130:A:MET:N	5	2.04
(1,151)	1:116:A:PRO:C	1:117:A:GLU:N	1:117:A:GLU:CA	1:117:A:GLU:C	14	2.04
(1,285)	1:197:A:ARG:N	1:197:A:ARG:CA	1:197:A:ARG:C	1:198:A:LYS:N	11	2.03
(1,40)	1:34:A:ILE:C	1:35:A:THR:N	1:35:A:THR:CA	1:35:A:THR:C	4	2.01
(1,315)	1:213:A:GLN:N	1:213:A:GLN:CA	1:213:A:GLN:C	1:214:A:PHE:N	6	1.96
(1,131)	1:91:A:PRO:C	1:92:A:ASP:N	1:92:A:ASP:CA	1:92:A:ASP:C	7	1.92
(1,3)	1:5:A:LEU:C	1:6:A:GLY:N	1:6:A:GLY:CA	1:6:A:GLY:C	16	1.91
(1,88)	1:61:A:GLU:N	1:61:A:GLU:CA	1:61:A:GLU:C	1:62:A:VAL:N	20	1.89
(1,315)	1:213:A:GLN:N	1:213:A:GLN:CA	1:213:A:GLN:C	1:214:A:PHE:N	19	1.86
(1,4)	1:6:A:GLY:N	1:6:A:GLY:CA	1:6:A:GLY:C	1:7:A:LYS:N	3	1.85
(1,134)	1:93:A:ASN:N	1:93:A:ASN:CA	1:93:A:ASN:C	1:94:A:TRP:N	12	1.84
(1,320)	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	1:51:A:PHE:N	9	1.83
(1,286)	1:197:A:ARG:C	1:198:A:LYS:N	1:198:A:LYS:CA	1:198:A:LYS:C	5	1.82
(1,285)	1:197:A:ARG:N	1:197:A:ARG:CA	1:197:A:ARG:C	1:198:A:LYS:N	1	1.77
(1,154)	1:118:A:GLU:N	1:118:A:GLU:CA	1:118:A:GLU:C	1:119:A:ARG:N	12	1.77
(1,149)	1:101:A:ILE:C	1:102:A:LEU:N	1:102:A:LEU:CA	1:102:A:LEU:C	8	1.76
(1,51)	1:40:A:GLN:C	1:41:A:CYS:N	1:41:A:CYS:CA	1:41:A:CYS:C	11	1.75
(1,4)	1:6:A:GLY:N	1:6:A:GLY:CA	1:6:A:GLY:C	1:7:A:LYS:N	10	1.75
(1,3)	1:5:A:LEU:C	1:6:A:GLY:N	1:6:A:GLY:CA	1:6:A:GLY:C	3	1.75
(1,36)	1:31:A:ASN:C	1:32:A:ASP:N	1:32:A:ASP:CA	1:32:A:ASP:C	18	1.74
(1,258)	1:178:A:ASP:C	1:179:A:LEU:N	1:179:A:LEU:CA	1:179:A:LEU:C	20	1.73
(1,68)	1:51:A:PHE:N	1:51:A:PHE:CA	1:51:A:PHE:C	1:52:A:TYR:N	13	1.73

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,134)	1:93:A:ASN:N	1:93:A:ASN:CA	1:93:A:ASN:C	1:94:A:TRP:N	11	1.7
(1,289)	1:199:A:TYR:N	1:199:A:TYR:CA	1:199:A:TYR:C	1:200:A:LEU:N	1	1.63
(1,149)	1:101:A:ILE:C	1:102:A:LEU:N	1:102:A:LEU:CA	1:102:A:LEU:C	6	1.63
(1,234)	1:166:A:ILE:C	1:167:A:ASP:N	1:167:A:ASP:CA	1:167:A:ASP:C	15	1.62
(1,32)	1:28:A:PRO:C	1:29:A:SER:N	1:29:A:SER:CA	1:29:A:SER:C	1	1.61
(1,234)	1:166:A:ILE:C	1:167:A:ASP:N	1:167:A:ASP:CA	1:167:A:ASP:C	5	1.6
(1,34)	1:29:A:SER:C	1:30:A:CYS:N	1:30:A:CYS:CA	1:30:A:CYS:C	18	1.6
(1,138)	1:96:A:MET:N	1:96:A:MET:CA	1:96:A:MET:C	1:97:A:ASP:N	12	1.59
(1,58)	1:44:A:ARG:N	1:44:A:ARG:CA	1:44:A:ARG:C	1:45:A:SER:N	6	1.58
(1,4)	1:6:A:GLY:N	1:6:A:GLY:CA	1:6:A:GLY:C	1:7:A:LYS:N	19	1.57
(1,36)	1:31:A:ASN:C	1:32:A:ASP:N	1:32:A:ASP:CA	1:32:A:ASP:C	9	1.55
(1,4)	1:6:A:GLY:N	1:6:A:GLY:CA	1:6:A:GLY:C	1:7:A:LYS:N	6	1.52
(1,137)	1:95:A:LYS:C	1:96:A:MET:N	1:96:A:MET:CA	1:96:A:MET:C	16	1.51
(1,61)	1:45:A:SER:C	1:46:A:PHE:N	1:46:A:PHE:CA	1:46:A:PHE:C	20	1.5
(1,255)	1:177:A:MET:N	1:177:A:MET:CA	1:177:A:MET:C	1:178:A:ASP:N	14	1.49
(1,197)	1:146:A:LYS:N	1:146:A:LYS:CA	1:146:A:LYS:C	1:147:A:ASP:N	20	1.49
(1,58)	1:44:A:ARG:N	1:44:A:ARG:CA	1:44:A:ARG:C	1:45:A:SER:N	9	1.49
(1,315)	1:213:A:GLN:N	1:213:A:GLN:CA	1:213:A:GLN:C	1:214:A:PHE:N	4	1.47
(1,175)	1:129:A:PHE:N	1:129:A:PHE:CA	1:129:A:PHE:C	1:130:A:MET:N	16	1.47
(1,151)	1:116:A:PRO:C	1:117:A:GLU:N	1:117:A:GLU:CA	1:117:A:GLU:C	16	1.47
(1,61)	1:45:A:SER:C	1:46:A:PHE:N	1:46:A:PHE:CA	1:46:A:PHE:C	17	1.43
(1,16)	1:16:A:GLU:C	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	10	1.43
(1,148)	1:101:A:ILE:N	1:101:A:ILE:CA	1:101:A:ILE:C	1:102:A:LEU:N	5	1.42
(1,4)	1:6:A:GLY:N	1:6:A:GLY:CA	1:6:A:GLY:C	1:7:A:LYS:N	2	1.42
(1,129)	1:86:A:LYS:N	1:86:A:LYS:CA	1:86:A:LYS:C	1:87:A:THR:N	13	1.39
(1,62)	1:46:A:PHE:N	1:46:A:PHE:CA	1:46:A:PHE:C	1:47:A:ILE:N	15	1.37
(1,36)	1:31:A:ASN:C	1:32:A:ASP:N	1:32:A:ASP:CA	1:32:A:ASP:C	6	1.37
(1,16)	1:16:A:GLU:C	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	18	1.37
(1,285)	1:197:A:ARG:N	1:197:A:ARG:CA	1:197:A:ARG:C	1:198:A:LYS:N	17	1.36
(1,205)	1:150:A:LEU:N	1:150:A:LEU:CA	1:150:A:LEU:C	1:151:A:PHE:N	4	1.36
(1,132)	1:92:A:ASP:N	1:92:A:ASP:CA	1:92:A:ASP:C	1:93:A:ASN:N	13	1.36
(1,285)	1:197:A:ARG:N	1:197:A:ARG:CA	1:197:A:ARG:C	1:198:A:LYS:N	4	1.35
(1,16)	1:16:A:GLU:C	1:17:A:ARG:N	1:17:A:ARG:CA	1:17:A:ARG:C	1	1.35
(1,320)	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	1:51:A:PHE:N	7	1.34
(1,234)	1:166:A:ILE:C	1:167:A:ASP:N	1:167:A:ASP:CA	1:167:A:ASP:C	4	1.34
(1,85)	1:59:A:ILE:C	1:60:A:LYS:N	1:60:A:LYS:CA	1:60:A:LYS:C	2	1.33
(1,36)	1:31:A:ASN:C	1:32:A:ASP:N	1:32:A:ASP:CA	1:32:A:ASP:C	20	1.33
(1,258)	1:178:A:ASP:C	1:179:A:LEU:N	1:179:A:LEU:CA	1:179:A:LEU:C	16	1.32
(1,234)	1:166:A:ILE:C	1:167:A:ASP:N	1:167:A:ASP:CA	1:167:A:ASP:C	3	1.32
(1,61)	1:45:A:SER:C	1:46:A:PHE:N	1:46:A:PHE:CA	1:46:A:PHE:C	14	1.32
(1,69)	1:51:A:PHE:C	1:52:A:TYR:N	1:52:A:TYR:CA	1:52:A:TYR:C	14	1.31
(1,152)	1:117:A:GLU:N	1:117:A:GLU:CA	1:117:A:GLU:C	1:118:A:GLU:N	16	1.3
(1,68)	1:51:A:PHE:N	1:51:A:PHE:CA	1:51:A:PHE:C	1:52:A:TYR:N	14	1.3
(1,150)	1:102:A:LEU:N	1:102:A:LEU:CA	1:102:A:LEU:C	1:103:A:GLU:N	20	1.28
(1,149)	1:101:A:ILE:C	1:102:A:LEU:N	1:102:A:LEU:CA	1:102:A:LEU:C	7	1.28
(1,105)	1:70:A:SER:C	1:71:A:GLU:N	1:71:A:GLU:CA	1:71:A:GLU:C	6	1.28
(1,289)	1:199:A:TYR:N	1:199:A:TYR:CA	1:199:A:TYR:C	1:200:A:LEU:N	3	1.27
(1,68)	1:51:A:PHE:N	1:51:A:PHE:CA	1:51:A:PHE:C	1:52:A:TYR:N	2	1.26
(1,4)	1:6:A:GLY:N	1:6:A:GLY:CA	1:6:A:GLY:C	1:7:A:LYS:N	13	1.26
(1,314)	1:212:A:ILE:C	1:213:A:GLN:N	1:213:A:GLN:CA	1:213:A:GLN:C	15	1.25
(1,61)	1:45:A:SER:C	1:46:A:PHE:N	1:46:A:PHE:CA	1:46:A:PHE:C	18	1.24

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,60)	1:45:A:SER:N	1:45:A:SER:CA	1:45:A:SER:C	1:46:A:PHE:N	6	1.24
(1,52)	1:41:A:CYS:N	1:41:A:CYS:CA	1:41:A:CYS:C	1:42:A:LEU:N	7	1.24
(1,36)	1:31:A:ASN:C	1:32:A:ASP:N	1:32:A:ASP:CA	1:32:A:ASP:C	10	1.24
(1,319)	1:49:A:SER:C	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	5	1.23
(1,153)	1:117:A:GLU:C	1:118:A:GLU:N	1:118:A:GLU:CA	1:118:A:GLU:C	2	1.21
(1,66)	1:48:A:ASP:C	1:49:A:SER:N	1:49:A:SER:CA	1:49:A:SER:C	5	1.2
(1,284)	1:196:A:TYR:C	1:197:A:ARG:N	1:197:A:ARG:CA	1:197:A:ARG:C	14	1.19
(1,68)	1:51:A:PHE:N	1:51:A:PHE:CA	1:51:A:PHE:C	1:52:A:TYR:N	11	1.19
(1,134)	1:93:A:ASN:N	1:93:A:ASN:CA	1:93:A:ASN:C	1:94:A:TRP:N	15	1.18
(1,37)	1:32:A:ASP:N	1:32:A:ASP:CA	1:32:A:ASP:C	1:33:A:ASP:N	13	1.18
(1,63)	1:46:A:PHE:C	1:47:A:ILE:N	1:47:A:ILE:CA	1:47:A:ILE:C	20	1.17
(1,36)	1:31:A:ASN:C	1:32:A:ASP:N	1:32:A:ASP:CA	1:32:A:ASP:C	19	1.17
(1,181)	1:132:A:ASP:N	1:132:A:ASP:CA	1:132:A:ASP:C	1:133:A:ARG:N	10	1.16
(1,91)	1:62:A:VAL:C	1:63:A:ASP:N	1:63:A:ASP:CA	1:63:A:ASP:C	14	1.16
(1,181)	1:132:A:ASP:N	1:132:A:ASP:CA	1:132:A:ASP:C	1:133:A:ARG:N	15	1.15
(1,191)	1:142:A:VAL:N	1:142:A:VAL:CA	1:142:A:VAL:C	1:143:A:LEU:N	14	1.14
(1,187)	1:138:A:ASN:N	1:138:A:ASN:CA	1:138:A:ASN:C	1:139:A:LYS:N	11	1.14
(1,290)	1:199:A:TYR:C	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	2	1.13
(1,105)	1:70:A:SER:C	1:71:A:GLU:N	1:71:A:GLU:CA	1:71:A:GLU:C	3	1.13
(1,149)	1:101:A:ILE:C	1:102:A:LEU:N	1:102:A:LEU:CA	1:102:A:LEU:C	4	1.12
(1,144)	1:99:A:SER:N	1:99:A:SER:CA	1:99:A:SER:C	1:100:A:GLU:N	4	1.12
(1,314)	1:212:A:ILE:C	1:213:A:GLN:N	1:213:A:GLN:CA	1:213:A:GLN:C	5	1.1
(1,102)	1:69:A:GLU:N	1:69:A:GLU:CA	1:69:A:GLU:C	1:70:A:SER:N	17	1.1
(1,226)	1:160:A:GLN:C	1:161:A:GLY:N	1:161:A:GLY:CA	1:161:A:GLY:C	10	1.09
(1,320)	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	1:51:A:PHE:N	8	1.08
(1,320)	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	1:51:A:PHE:N	20	1.08
(1,69)	1:51:A:PHE:C	1:52:A:TYR:N	1:52:A:TYR:CA	1:52:A:TYR:C	16	1.08
(1,38)	1:32:A:ASP:C	1:33:A:ASP:N	1:33:A:ASP:CA	1:33:A:ASP:C	5	1.08
(1,19)	1:18:A:THR:N	1:18:A:THR:CA	1:18:A:THR:C	1:19:A:GLU:N	1	1.08
(1,149)	1:101:A:ILE:C	1:102:A:LEU:N	1:102:A:LEU:CA	1:102:A:LEU:C	1	1.07
(1,149)	1:101:A:ILE:C	1:102:A:LEU:N	1:102:A:LEU:CA	1:102:A:LEU:C	12	1.07
(1,139)	1:96:A:MET:C	1:97:A:ASP:N	1:97:A:ASP:CA	1:97:A:ASP:C	14	1.07
(1,1)	1:2:A:ASP:C	1:3:A:GLU:N	1:3:A:GLU:CA	1:3:A:GLU:C	13	1.07
(1,174)	1:128:A:LYS:C	1:129:A:PHE:N	1:129:A:PHE:CA	1:129:A:PHE:C	11	1.06
(1,4)	1:6:A:GLY:N	1:6:A:GLY:CA	1:6:A:GLY:C	1:7:A:LYS:N	1	1.06
(1,180)	1:131:A:GLU:C	1:132:A:ASP:N	1:132:A:ASP:CA	1:132:A:ASP:C	11	1.05
(1,112)	1:74:A:THR:N	1:74:A:THR:CA	1:74:A:THR:C	1:75:A:LYS:N	3	1.05
(1,320)	1:50:A:LYS:N	1:50:A:LYS:CA	1:50:A:LYS:C	1:51:A:PHE:N	17	1.04
(1,4)	1:6:A:GLY:N	1:6:A:GLY:CA	1:6:A:GLY:C	1:7:A:LYS:N	11	1.03
(1,46)	1:38:A:LYS:N	1:38:A:LYS:CA	1:38:A:LYS:C	1:39:A:ASP:N	7	1.02
(1,4)	1:6:A:GLY:N	1:6:A:GLY:CA	1:6:A:GLY:C	1:7:A:LYS:N	4	1.01
(1,138)	1:96:A:MET:N	1:96:A:MET:CA	1:96:A:MET:C	1:97:A:ASP:N	6	1.0